

March 2018



Prepared for:
Town of Westport



DEADMAN BROOK WATERSHED STUDY Town of Westport, CT

BL Project No. 16C6016
Town Project No. 17-852T

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EXECUTIVE SUMMARY

The Town of Westport is located in southwestern Connecticut within Fairfield County. The Town has experienced property damage due to flooding along Deadman Brook, which begins just beyond Westport's northeast border in the Town of Fairfield. Once in Westport, the brook flows south and southwest through a developed residential watershed towards the central area of the Town, which is a highly-developed business district.

During normal conditions, Deadman Brook is a narrow, tranquil watercourse. Many areas of the brook feature attractive hand-laid stone walls along the channel edge with manicured landscaped areas beyond the edge within residential property. However, when heavy storms or coastal surges occur, the densely-developed watershed makes the brook highly susceptible to flooding within the coastal area as well as further upstream.

Over the past 20 years, flooding has occurred during major storms in 1999, 2006, 2007, 2011 and 2012. During these events, overtopping floods have required multiple roadway closures, affecting residences, businesses and town property. Flooding has forced closures along Myrtle Avenue, Roseville Road, Pumpkin Hill Road, Pleasant Valley Road and Lost Lodge Road.

After the damage caused by Superstorm Sandy in 2012, the Town of Westport applied for, and received, funding from the Housing and Urban Development's Community Development Block Grant to complete a watershed study of Deadman Brook.

One year later, the Town of Westport hired BL Companies to perform the watershed study. As part of the study, BL Companies performed a field walk throughout the watershed, verified the drainage area, computed hydrologic flows, performed hydraulic modeling of Deadman Brook and its tributaries, and developed and evaluated potential improvement projects. Early coordination with the Connecticut Department of Energy and Environmental Protection (CT DEEP) was completed to verify the viability of each potential improvement.

After extensive analysis of the potential improvements for Deadman Brook, BL Companies recommends the Town of Westport implement further study and design of these six design alternatives:

- Widening the channel between Myrtle Avenue and U.S. Route 1 (Alternative 1).
- Addition of two flood storage basins in the lower third of the watershed, one between Fernwood Road and Witch Lane, and the second between Peaceful Lane and Turtleback Lane (Alternative 6).
- Replacement of the pipe conveying a tributary below Roseville Road and regrading of the existing inline storage just downstream of the crossing (Alternative 7).
- Addition of an offline flood storage basin at Bayberry Lane and replacement of the Bayberry Lane crossing (Alternative 10).
- Regrading of the Tupelo Road inline pond (Alternative 11).

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SECTION 1 - INTRODUCTION

1.1 Project Location

The Town of Westport is located in southwestern Connecticut within Fairfield County. The Town is bordered to the west by the city of Norwalk, to the north by the towns of Wilton and Weston, and to the east by the Town of Fairfield. Long Island Sound forms the border of the town to the south.

Deadman Brook begins just beyond the northeast corner of Westport within the Town of Fairfield. Once in Westport, the brook flows south and southwest towards the central area of the town. There are several tributaries that connect to the brook on its path towards the Saugatuck River. Three tributaries join the brook in the upper third of the watershed, three tributaries join the brook in the central area of the watershed and two tributaries join the brook in the lower third of the watershed (see Figure 4).

1.2 Project Purpose and Need

The purpose of the project is to analyze the Deadman Brook watershed within the Town of Westport. The need for the project is based on the frequent flooding the Town has experienced along Deadman Brook and its tributaries. The frequency of flooding has resulted in repetitive instances of roadway and bridge overtopping, roadway closures and property impact, both to commercial and residential areas within the Town.

1.3 Flooding History and Project Funding

During normal conditions, Deadman Brook is a narrow, tranquil watercourse meandering its way through town. Many areas of the brook feature attractive hand-laid stone walls along the channel edge with manicured landscaped areas beyond the edge within residential property. However, when heavy storms or coastal surges occur, the densely-developed watershed makes the brook highly susceptible to flooding.

Over the past 20 years, flooding has occurred within the Deadman Brook watershed during major storms and coastal surges. These include Tropical Storm Floyd in September 1999 (an approximate 50-year storm), an approximate 25-year storm in April 2006, an approximate 50-year storm during a nor'easter in April 2007, Tropical Storm Irene in 2011 (an approximate 2-year storm with coastal surge) and Superstorm Sandy in October 2012 (coastal surge). During these events, overtopping floods have required multiple roadway closures. Flooding has forced closures along Myrtle Avenue, Roseville Road, Pumpkin Hill Road, Pleasant Valley Road and Lost Lodge Road.

After the damage caused by Superstorm Sandy, the Town of Westport applied for, and received, funding from the Housing and Urban Development's Community Development Block Grant (Disaster Recovery Assistance) to complete this watershed study of Deadman Brook.

SECTION 2 - WATERSHED CONDITIONS

2.1 Watershed Description

The Deadman Brook watershed has an area of 2.23 square miles (1,426 acres) at its confluence with the Saugatuck River. The watershed encompasses area in Westport (89.9% of total area) and Fairfield (10.1% of total area). The watershed is narrow, with an approximate brook length of 4.5 miles and a width varying from 600-feet to 3,200-feet.

The watershed area was generated by the USGS StreamStats online application and verified for accuracy by field investigation. The watershed border was adjusted based on roadway and residential development, which affected surface runoff. Minor adjustments were also made for drainage systems conveying flow into or out of the watershed. The watershed area is shown on Figure 1.

The brook begins within a wooded wetland area just west of Catamount Hill in the Town of Fairfield and flows generally south to southwest through the watershed. From the brook's origin within a small, unnamed pond in Fairfield to the confluence with the Saugatuck River, the brook has an average streambed slope of 50.7 ft/mile.

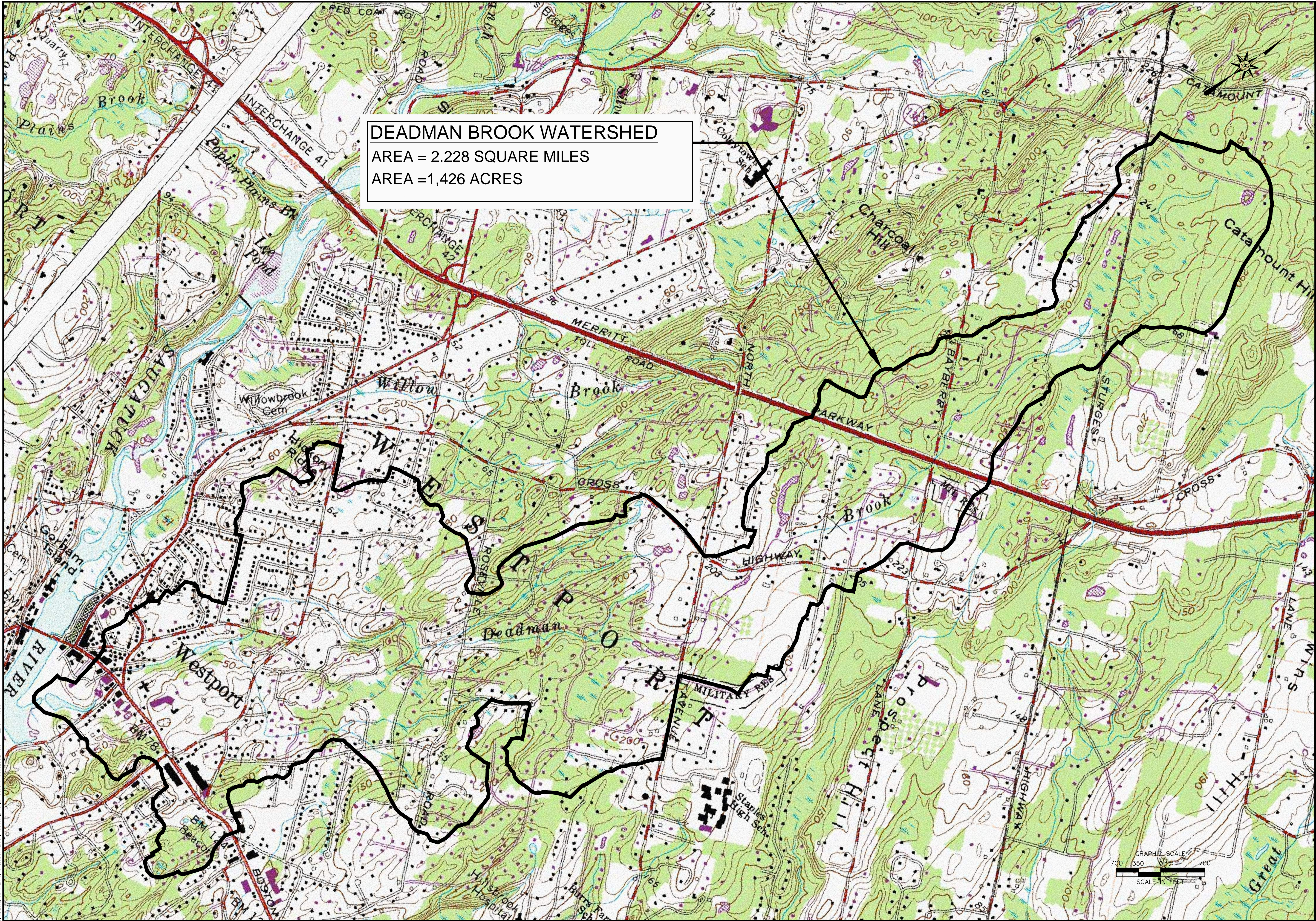
Approximately 200-feet downstream of the small, unnamed pond, the brook enters Westport at the bridge below Sturges Highway. Within Westport, the watershed is bordered by small ridgelines to the east and west. Area to the west is within the Willow Brook watershed. Area to the east is within the Muddy Brook watershed.

Eight tributaries connect to Deadman Brook on its path towards the Saugatuck River. From upstream to downstream, the first tributary (Tributary 8 in the RAS analysis) connects to Deadman Brook approximately 1,000-feet (measured along the brook's path) downstream of Sturges Highway. Tributary 8 is approximately 550-feet long and starts within the Town of Fairfield southeast of the origin of Deadman Brook. Tributary 8 has an approximate watershed area of 73 acres.

Tributary 7 connects to Deadman Brook just downstream of the Merritt Parkway. This tributary starts at the stormwater outlet south of Apache Trail, is conveyed below the Merritt Parkway through a culvert, and joins Deadman Brook approximately 400-feet further downstream. Tributary 7 has an approximate watershed area of 62.6 acres. Approximately 650-feet downstream of Tributary 7 is Tributary 6, a 450-foot long channel beginning at a stormwater outlet southwest of Bayberry Lane. Tributary 6 has an approximate watershed area of 31.2 acres.

In the central area of the watershed, Tributary 5 connects to Deadman Brook just downstream of the intersection of Silent Grove North and Cross Highway. This tributary travels through a long, narrow wetland area that features interconnected ponds behind residential properties along Blue Ribbon Drive. Tributary 5 has an approximate watershed area of 38.5 acres.

Tributary 4 connects to Deadman Brook in the area of Lehn Farm Road. This tributary is approximately 1,000-feet long, beginning at Black Birch Road and joining the brook approximately 500-feet upstream of Roseville Road. Tributary 4 has an approximate watershed area of 65.6 acres.



DEADMAN BROOK WATERSHED
AREA = 2.228 SQUARE MILES
AREA = 1,426 ACRES

DEADMAN BROOK WATERSHED STUDY
WESTPORT, CONNECTICUT

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Designed		B.G.R.					
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Title		WATERSHED BOUNDARY MAP					
Sheet No.							
FIGURE 1							

Tributary 3 begins at a pond between Abbotts Lane, Cross Highway and Kensington Place. The tributary flows approximately 4,200-feet into Deadman Brook. Approximately 3,000-feet from its upper limit, a small tributary (Tributary 3A) connects to Tributary 3. Tributary 3 connects to Deadman Brook just downstream of Roseville Road. Tributary 3 has an approximate watershed area of 84.5 acres. (In the hydraulic model, upstream of the confluence with Tributary 3A, Tributary 3 is labeled Tributary 3B.)

In the lower third of the watershed, Tributary 2 connects to Deadman Brook in the area of Deerwood Lane. This tributary is short-length, beginning at a stormwater outlet of Deerwood Lane and flowing approximately 300-feet into the brook. This tributary is the only tributary without a bridge or culvert crossing. Tributary 2 has an approximate watershed area of 29.2 acres.

Tributary 1 is the longest tributary of Deadman Brook. This tributary begins just west of Roseville Road and flows approximately 4,900-feet before discharging into Deadman Brook near the intersection of Evergreen Parkway and Evergreen Avenue. Approximately 1,100-feet from its upper limit, a small tributary connects to Tributary 1. The small tributary originates from a pond located between Plumtree Lane and Pamela Place. Tributary 1 has an approximate watershed area of 93.2 acres.

2.2 Land Use and Soil Data

The Deadman Brook watershed is highly developed with little open space. The vast majority of development is residential, with lots typically ranging from 0.5 acres to 2 acres in size. Commercially developed areas are in the lower watershed in the vicinity of U.S. Route 1 (Post Road East).

The existing land use within the watershed area is based on the National Land Cover Database 2011 (NLCD 2011) from the United States Geological Survey (USGS) Data website. The land uses within the watershed include Residential, Business, Open Space and Retail. The area within Fairfield is entirely Residential. The breakdown of existing land use is shown on Figure 2.

The soil types within the Deadman Brook watershed are based on the Natural Resources Conservation Service (NRCS) Web Soil Survey data. The majority of the soils are characterized as “fine sandy loam”. A large area within the center of the watershed is characterized as rocky. Urban Lands exists mainly in the southern area of the watershed. See Figure 3 for the watershed soil group map.

2.3 Environmental Description

Deadman Brook is classified as riverine unknown perennial unconsolidated bottom permanently flooded watercourse (USFWS classification: R5UBH). The watercourse varies in width and in many areas has been manipulated and landscaped. In its southern reaches it becomes channelized through commercial developments. Ponding is present in certain portions, with remnants of dams and stone walls utilized to manipulate flows. As it flows south towards the Saugatuck River, the brook transitions to an estuary with tidal influences from Long Island Sound. The substrate throughout is varied, however it is primarily composed of coarse sand with few cobbles.

The watershed lies within the Sauagtuck River Drainage Basin (7200), which is part of the Saugatuck Regional Basin and is not located within a public water supply watershed. According to the Connecticut Department of Energy and Environmental Protection (CT DEEP) Aquifer Area Protection maps, the watershed is located partially within an Aquifer Protection Area. The southwestern portion of the watershed is also located within the Coastal Area Management (CAM) zone. Coastal resources in this area include developed shorefront, coastal flood hazard area, shorelands, open waterbodies, freshwater wetlands, undesignated tidal wetlands, and regulated tidal wetlands.

A review of the CTDEEP Natural Diversity Database (NDDDB) mapping for Westport indicates that the watershed area downstream of U.S. Route 1 is within an area identified as potential habitat for endangered, threatened, or special concern species (map dated December 2017). However, no critical habitat is present within the study area according to state mapping.

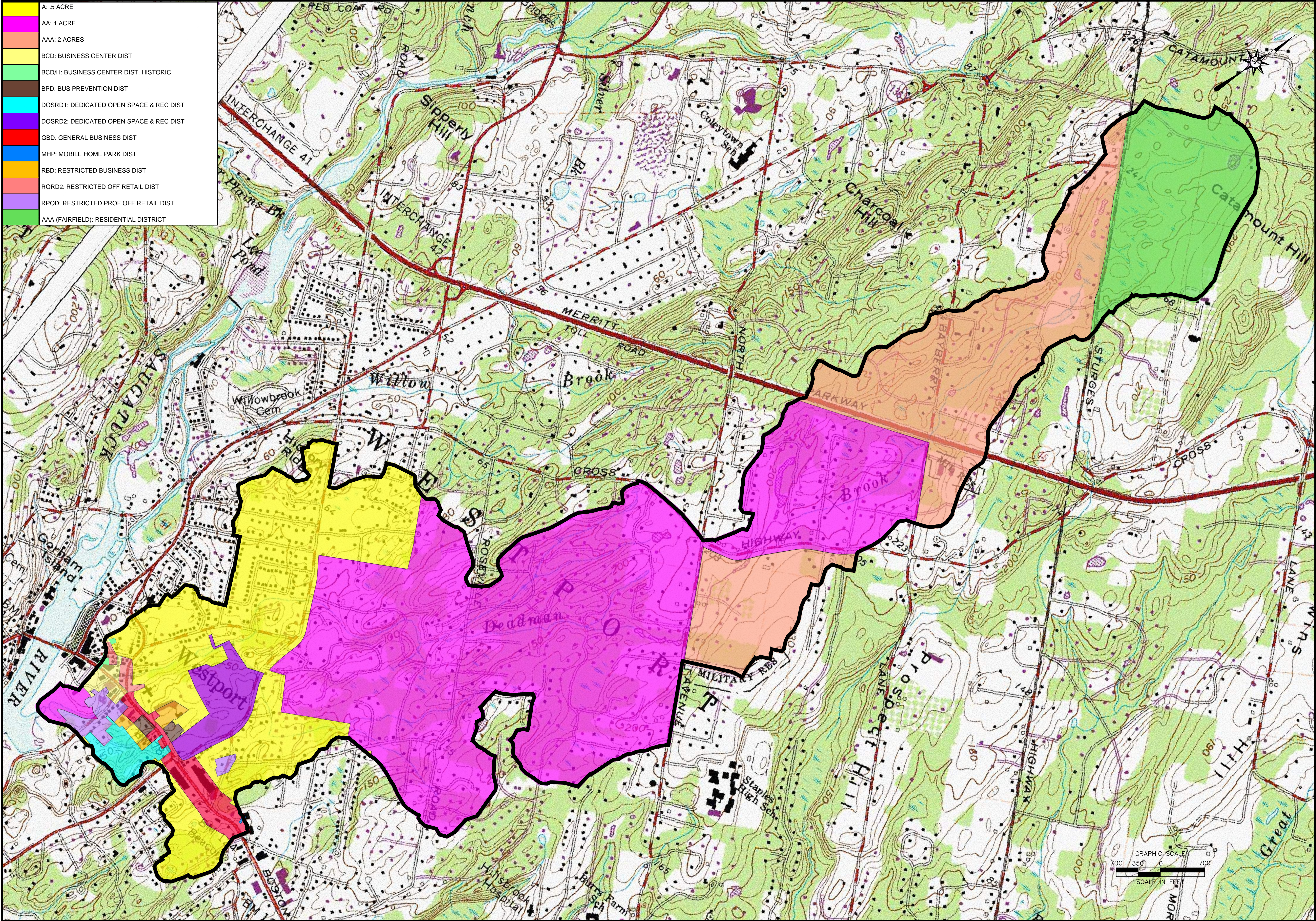
2.4 FEMA Studies

Deadman Brook has been studied by detailed methods by the Federal Emergency Management Agency (FEMA) as part of the National Flood Insurance Program (NFIP). Flows for Deadman Brook were completed for the original June 4, 1984 Flood Insurance Study (FIS). The latest FIS, dated October 16, 2013, contains the same flows. The Deadman Brook floodplain and floodway limits are shown on Flood Insurance Rate Map Panel Numbers 09001C0413G (effective date July 8, 2013), 09001C0414G (effective date July 8, 2013) and 09001C0412F (effective date June 18, 2010). The FEMA floodway, 100-year floodplain and 500-year floodplain are present throughout the project limits. It is noted in the FIS that 26% of Westport residents live within the 100-year floodplain and that the downstream section of Deadman Brook is subjected to periodic flooding.

As shown on the FEMA Flood Profile (see Appendix A), the backwater of Long Island Sound controls the water surface elevations of Deadman Brook at the confluence with the Saugatuck River. The effect of Long Island Sound extends approximately 500-feet upstream of the confluence, approximately 50-feet downstream of U.S. Route 1.

FEMA issued a Letter of Map Revision (LOMR) for the Saugatuck River, effective November 28, 2016. The area of study was located at the Saugatuck River confluence with the Aspetuck River, approximately 2.8-miles upstream of the Saugatuck River confluence with Deadman Brook. Revisions due to the LOMR did not impact the Deadman Brook FEMA floodplain or floodway limits.

- A: .5 ACRE
- AA: 1 ACRE
- AAA: 2 ACRES
- BCD: BUSINESS CENTER DIST
- BCD/H: BUSINESS CENTER DIST. HISTORIC
- BPD: BUS PREVENTION DIST
- DOSRD1: DEDICATED OPEN SPACE & REC DIST
- DOSRD2: DEDICATED OPEN SPACE & REC DIST
- GBD: GENERAL BUSINESS DIST
- MHP: MOBILE HOME PARK DIST
- RBD: RESTRICTED BUSINESS DIST
- RORD2: RESTRICTED OFF RETAIL DIST
- RPOD: RESTRICTED PROF OFF RETAIL DIST
- AAA (FAIRFIELD): RESIDENTIAL DISTRICT

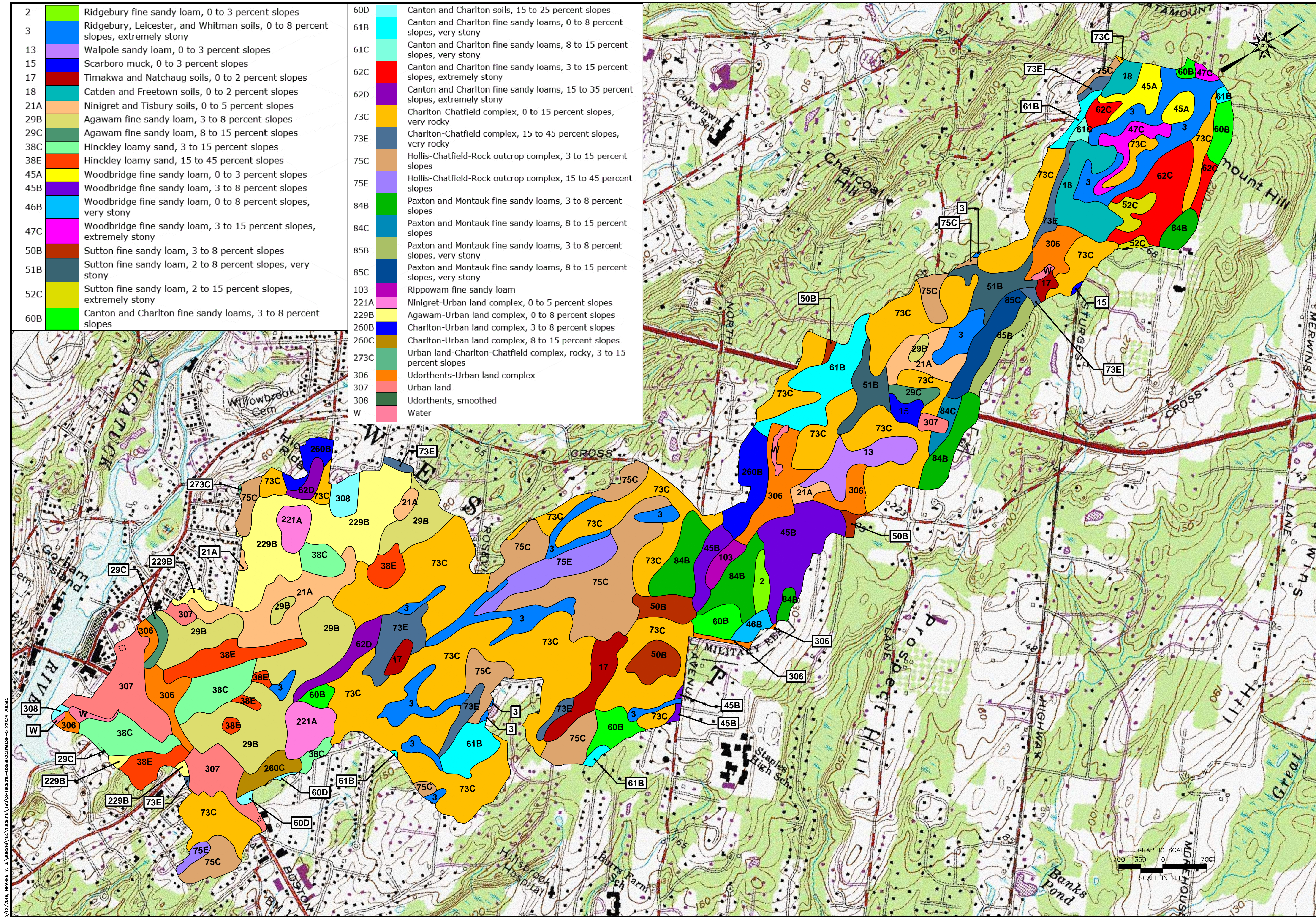


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Title
WATERSHED
LAND USE
MAP

Sheet No.
FIGURE 2



BL Companies
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ENGINEERING
ENVIRONMENTAL
LAND SURVEYING

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Title: **WATERSHED SOIL GROUP MAP**

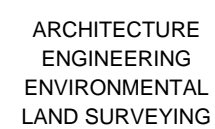
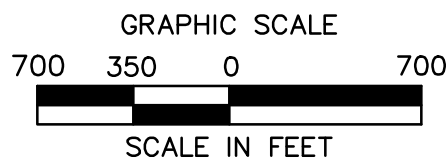
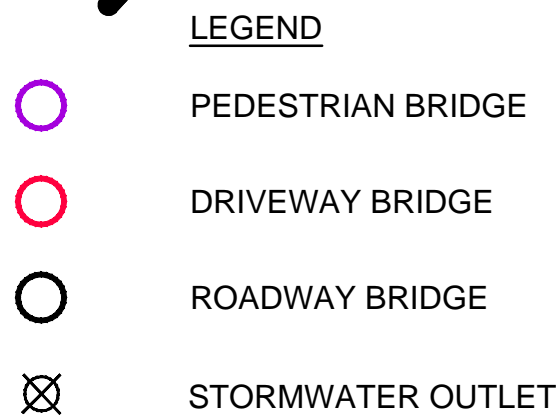
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2.5 Existing Structures

There is a total of 98 existing structures within the watershed. There are roadway bridges/culverts, driveway bridges/culverts and pedestrian footbridges over Deadman Brook and its tributaries. The structures are a mix of single-span bridges, single culverts and multiple culverts. See Figure 4 for a map noting the location of each crossing structure.

The FEMA profile does not show all the structures over the brook. The FEMA profile extends from the confluence of Deadman Brook and the Saugatuck River to downstream of Cardinal Lane. Within this section of the brook, the FEMA profile shows 19 roadway structures, 8 driveway structures and one pedestrian structure. Along this section of Deadman Brook, there are actually 24 roadway structures, 10 driveway structures and 20 pedestrian structures.

Deadman Brook Watershed Existing Structures			
	Number of Roadway Structures	Number of Driveway Structures	Number of Pedestrian Structures
Deadman Brook	22	12	28
Tributary 1	6	2	6
Tributary 2	0	0	0
Tributary 3	6	3	8
Tributary 4	1	0	0
Tributary 5	0	0	0
Tributary 6	0	0	1
Tributary 7	1	0	0
Tributary 8	1	0	1
Total	37	17	44



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Title
CROSSING
STRUCTURE
MAP

Sheet No.

FIGURE 4

SECTION 3 - HYDROLOGIC ANALYSIS

3.1 Computer Program

The computer program HydroCAD, Version 10.10, was used to determine the peak flow discharges for the watershed. HydroCAD is a TR-20 based program which uses the unit-hydrograph runoff procedure. As with TR-20, the HydroCAD peak flow discharges are dependent upon parameters such as watershed size, the curve number for a given watershed, time of concentration, rainfall storm type, rainfall intensity and storm duration. In addition to computing flows, HydroCAD had the ability to analyze storage basins to determine flow changes (timing and volume) storage basins provide.

3.2 Subwatershed Analysis

As mentioned prior, at the Saugatuck River confluence, Deadman Brook has a watershed area of 2.23 square miles (1,426 acres). In order to develop the hydrologic model, the watershed area was split into a total of 17 subwatersheds. Refer to Figure 5 for the size, location and land cover of each of the subwatersheds.

3.3 Storm Events and Rainfall Depth

Rainfall distributions and depths were selected using the recently-developed National Oceanic and Atmospheric Administration (NOAA) Atlas 14 Precipitation Frequency Estimates. These estimates provide storm duration for analysis from 5-minute to 60-day durations at average recurrence intervals from 1-year to 1,000 years.

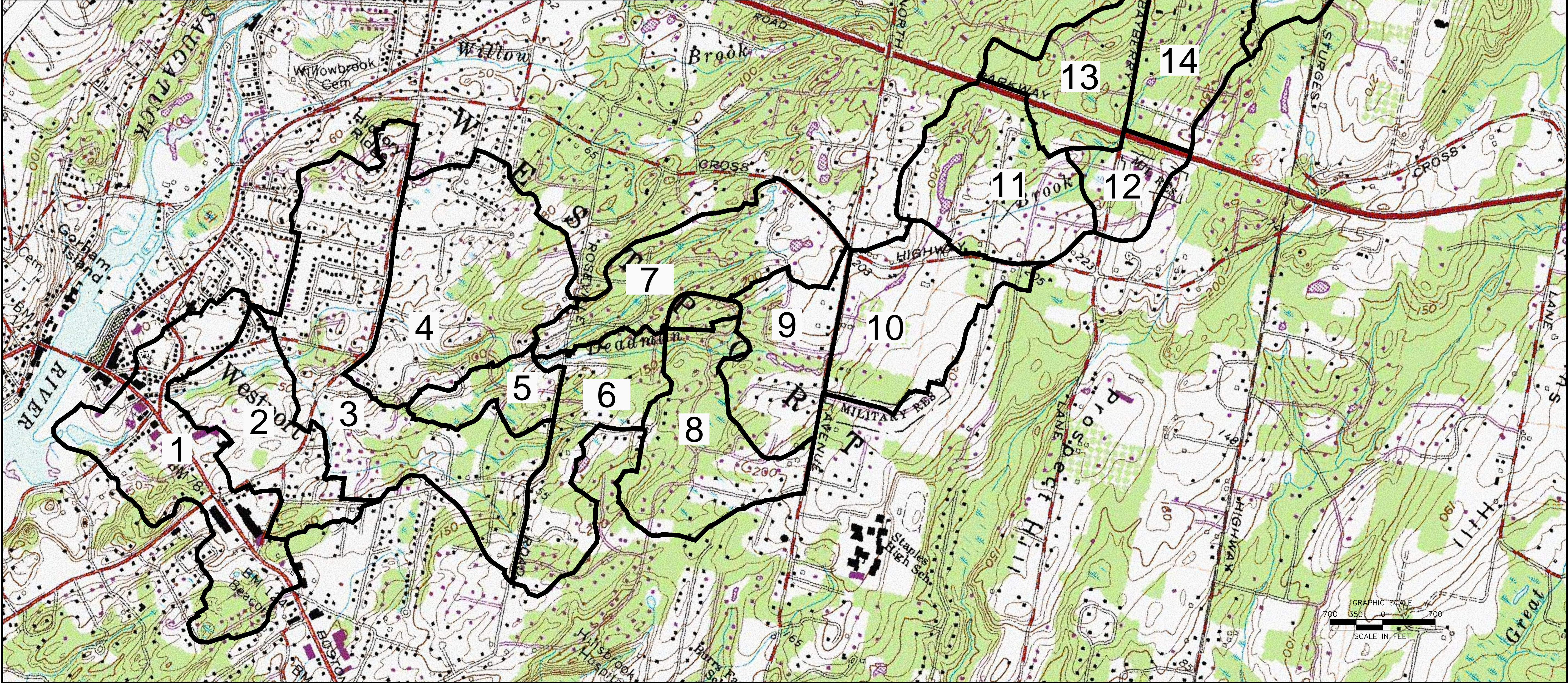
The storm events and rainfall depth used in the analysis is as follows; 2-year storm: 3.50 inches, 10-year storm: 5.34 inches, 25-year storm: 6.49 inches, 50-year storm: 7.38 inches, 100-year storm: 8.27 inches, 500-year storm: 11.09 inches.

3.2 Flow Comparison

The HydroCAD-computed flows for Deadman Brook at the confluence with the Saugatuck River were compared to flows developed by FEMA and USGS StreamStats. The StreamStats flows were urbanized using both the 3-Variable and 7-Variable equations to account for the high level of development within the watershed.

Summary of Computed Flows (cfs)					
Deadman Brook Confluence with the Saugatuck River					
	HydroCAD	FEMA	StreamStats	3-Variable	7-Variable
2-year	320	---	100	210	270
10-year	660	650	220	410	520
25-year	880	---	290	500	650
50-year	1,110	840	350	590	770
100-year	1,340	940	410	690	890
500-year	1,970	1,400	580	920	1,160

SUBWATERSHED LAND COVER								
SUBWATERSHED	TOTAL AREA (ACRES)	1/2 AC. RESIDENTIAL (%)	1 AC. RESIDENTIAL (%)	2 AC. RESIDENTIAL (%)	GRASS (%)	WOODS (%)	WATER (%)	IMPERVIOUS (%)
AREA 1	125.4	29.3	-	-	2.8	4.9	1.8	61.2
AREA 2	76.6	43.2	-	-	22.7	18.1	-	16.0
AREA 3	183.8	57.0	21.0	-	1.9	12.1	-	8.0
AREA 4	141.7	16.0	55.8	-	-	21.3	-	6.8
AREA 5	29.9	-	59.9	-	-	35.3	-	4.8
AREA 6	81.9	-	57.9	-	-	33.9	-	8.3
AREA 7	89.5	-	74.9	-	-	22.6	-	2.5
AREA 8	88.2	-	71.4	-	-	22.4	-	6.2
AREA 9	65.6	-	85.2	-	-	12.8	-	2.1
AREA 10	89.3	-	51.2	-	19.8	16.4	0.8	11.8
AREA 11	96.5	-	59.7	-	-	32.4	1.7	6.1
AREA 12	31.2	-	42.7	-	4.3	34.3	-	18.9
AREA 13	62.6	-	33.2	-	-	57.9	-	8.9
AREA 14	64.4	-	72.0	-	-	27.4	-	0.7
AREA 15	45.0	-	7.3	45.9	-	33.1	6.9	6.9
AREA 16	73.1	-	-	51.9	-	43.5	-	4.5
AREA 17	81.7	-	-	44.9	-	52.8	-	2.3
TOTAL	1426.4	145.5	692.2	142.7	3.0	25.2	0.5	11.7



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Title
SUBWATERSHED
BOUNDARY
MAP

Sheet No.
FIGURE 5

The FEMA flows are listed in the *Flood Insurance Study, Prepared for Fairfield County, revised October 16, 2013* by the Federal Emergency Management Agency (FEMA). The flows were calculated based on data from gaged streams near the watershed area using the log-Pearson Type III statistical analysis. At the confluence of Deadman Brook and the Saugatuck River, the drainage area listed in the FIS is 2.2 sq. miles. The flow estimates were developed in 1982 by CE Maguire, Incorporated, for FEMA. Appendix A contains pertinent data from the FEMA FIS.

StreamStats is a web-based tool developed by the USGS and Environmental Systems Research Institute. This map-based web application was designed to make it easy for users to obtain streamflow statistics, drainage-basin characteristics, and other information for user-selected sites. StreamStats utilizes previously published information from gaging stations and previously gathered basin characteristics to develop streamflow statistics utilizing the appropriate regression equations to compute the stream flows. For Deadman Brook, the StreamStats-developed watershed area is 2.29 square miles.

The StreamStats flows are based on characteristics of nonurban drainage basins. Due to the high development of the Deadman Brook watershed, the StreamStats flows have been adjusted using both the three-variable and seven-variable regression equations included in the USGS publication, *Regression Equations for Estimating Flood Flows for the 2-, 10-, 25-, 50-, 100-, and 500-Year Recurrence Intervals in Connecticut*.

The HydroCAD-developed flows are higher than the flows produced by FEMA, USGS StreamStats and the urbanized StreamStats flows. The HydroCAD flows were selected for use as they are based on a detailed analysis of the existing watershed with the use of the new and most recently issued precipitation rates. All other methods are regression-based estimates that appear to underestimate flow to the highly-developed watershed.

Although the HydroCAD flows are higher compared to the FEMA produced flows, the 100-year inundation limits using the HydroCAD flows were found to be similar to the FEMA floodplain (see Figures 10 through 12).

Appendix B contains information of the calculated hydrology, including USGS StreamStats information, the three-variable and seven-variable regression calculations and the output of the HydroCAD developed flows.

SECTION 4 - HYDRAULIC METHODOLOGY

4.1 Computer Program

GeoHEC-RAS Version 1.4 was utilized to create a hydraulic model of Deadman Brook and its tributaries. GeoHEC-RAS is a purchased program that extends the functionality of HEC-RAS, the hydraulic program created by the U.S. Army Corps of Engineers. GeoHEC-RAS provides the user with the ability to edit and compute floodplain encroachments interactively, while also providing the ability to generate floodplain and floodway mapping based off HEC-RAS results and 3D digital elevation terrain data.

The confluence of Deadman Brook and the Saugatuck River occurs along the edge of the coastal zone. The brook may be tidally influenced, but not tidally controlled. Therefore, a one-dimensional, steady flow model was produced, as required in the Town's original Request for Qualifications.

A single model was created for the entire watershed. Junctions were added to the model at each connection of a tributary with Deadman Brook. At each junction, the calculated subwatershed flows were applied.

4.2 Hydraulic Cross-Sections

In the GeoHEC-RAS Existing Conditions Model, there are a total of 407 hydraulic cross-sections along Deadman Brook and its tributaries. BL Companies field-surveyed a total of 71 cross-sections, mainly at upstream and downstream structure faces. The remaining cross-sections were developed based on 1-foot aerial contours provided by the Town.

The hydraulic model of Deadman Brook is approximately 23,500-feet (4.5-miles) long, spanning from upstream of Sturges Highway to the confluence with the Saugatuck River. Along this portion of Deadman Brook, there are 271 cross-sections. Sixty-one of the cross-sections were developed through field survey and the remaining 210 cross-sections were developed using town mapping. See Figure 6 through Figure 9 for the Deadman Brook cross-section locations.

The hydraulic model of Tributary 1 begins just downstream of the storm drainage outlet at Turtleback Lane (two junction chambers along Turtleback Lane prevented the extension of the model). The model is approximately 1,900-feet long, spanning from Turtleback Lane to the confluence with Deadman Brook. There are 25 cross-sections along this tributary. Four of the cross-sections were developed through field survey and the remaining 21 cross-sections were developed using town mapping. See Figure 6 for the Tributary 1 cross-sections locations.

The hydraulic model of Tributary 2 is approximately 250-feet long, spanning from Deerwood Lane to the confluence with Deadman Brook. There are three cross-sections along this tributary. One cross-section was developed through field survey and the remaining two cross-sections were developed using town mapping. See Figure 7 for the Tributary 2 cross-sections locations.

The hydraulic model of Tributary 3, 3A and 3B totals approximately 5,100-feet in length, spanning from Clover Lane (3A) and Abbotts Lane (3B) to the Tributary 3 confluence with Deadman Brook.

There are 74 cross-sections along this tributary. Five of the cross-sections were developed through field survey and the remaining 69 cross-sections were developed using town mapping. See Figure 7 for the Tributary 3 cross-sections locations.

The hydraulic model of Tributary 4 is approximately 950-feet long, spanning from Black Birch Road to the confluence with Deadman Brook. There are seven cross-sections along this tributary. All cross-sections were developed using town mapping. See Figure 7 for the Tributary 4 cross-sections locations.

The hydraulic model of Tributary 5 is approximately 1,100-feet long, spanning from Silent Grove North to the confluence with Deadman Brook. There are six cross-sections along this tributary. All cross-sections were developed using town mapping. See Figure 8 for the Tributary 5 cross-sections locations.

The hydraulic model of Tributary 6 is approximately 360-feet long, spanning from Bayberry Lane to the confluence with Deadman Brook. There are five cross-sections along this tributary. All cross-sections were developed using town mapping. See Figure 8 for the Tributary 6 cross-sections locations.

The hydraulic model of Tributary 7 is approximately 930-feet long, spanning from Apache Trail to the confluence with Deadman Brook. There are eight cross-sections along this tributary. All cross-sections were developed using town mapping. See Figure 9 for the Tributary 7 cross-sections locations.

The hydraulic model of Tributary 8 is approximately 430-feet long, spanning from Sturges Highway to the confluence with Deadman Brook. There are eight cross-sections along this tributary. All cross-sections were developed using town mapping. See Figure 9 for the Tributary 8 cross-sections locations.

Hydraulic Cross-Section Data Source			
Watercourse	Total Sections	Field Surveyed Sections	Town Mapping Sections
Deadman Brook	271	61	210
Tributary 1	25	4	21
Tributary 2	3	1	2
Tributary 3	74	5	69
Tributary 4	7	0	7
Tributary 5	6	0	6
Tributary 6	5	0	5
Tributary 7	8	0	8
Tributary 8	8	0	8

4.3 Downstream Boundary Condition

Based on FEMA information, and confirmed in the field, the confluence of Deadman Brook and the Saugatuck River is within the tidal zone of Long Island Sound. In the hydraulic model, the tidal elevations used as the downstream boundary were obtained from the FEMA report titled *Updated Tidal Profiles for the New England Coastline*, dated March 2012. This report is an update

to a report titled *Updated Tidal Profiles for the New England Coastline*, dated September 2008, which is an update to the original *Tidal Flood Profiles, New England Coastline* report produced by the U.S. Army Corps of Engineers in September 1988. The original 1988 report was adopted by FEMA as the source of stillwater elevations for Flood Insurance Studies.

To account for a possible raise in sea level, the existing conditions downstream boundary condition was also modeled with a 4-foot increase. The boundary change raised the computed water surface elevations between the Saugatuck River confluence to approximately 200-feet upstream of Myrtle Avenue. There was no further effect upstream.

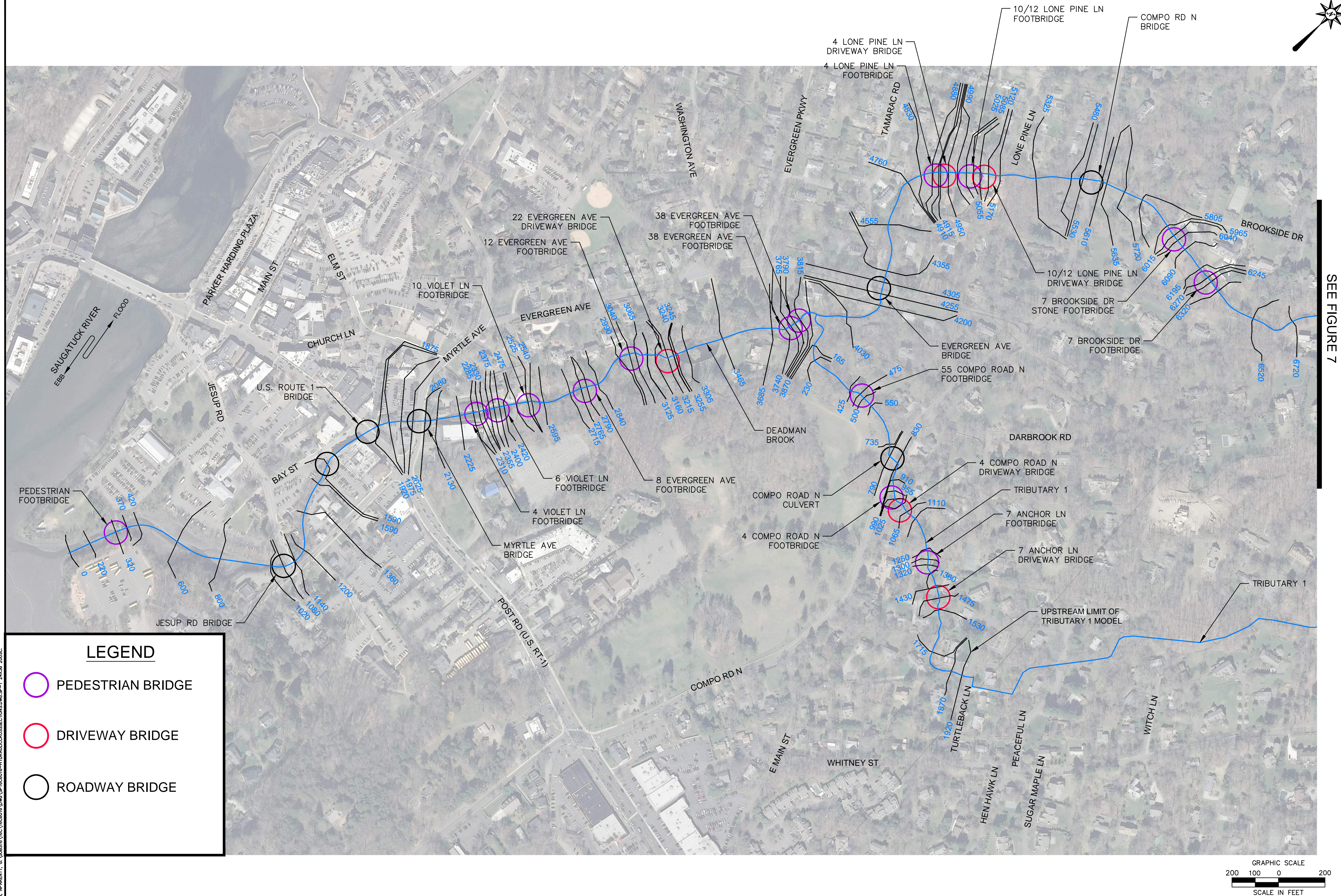
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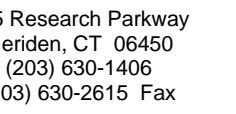
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		MARCH 2018
		WD File:
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HYDRAULIC
CROSS-
SECTIONS 1

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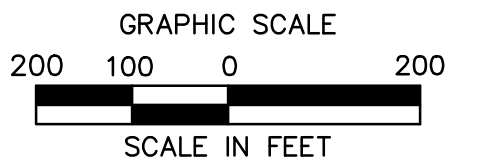
FIGURE 6





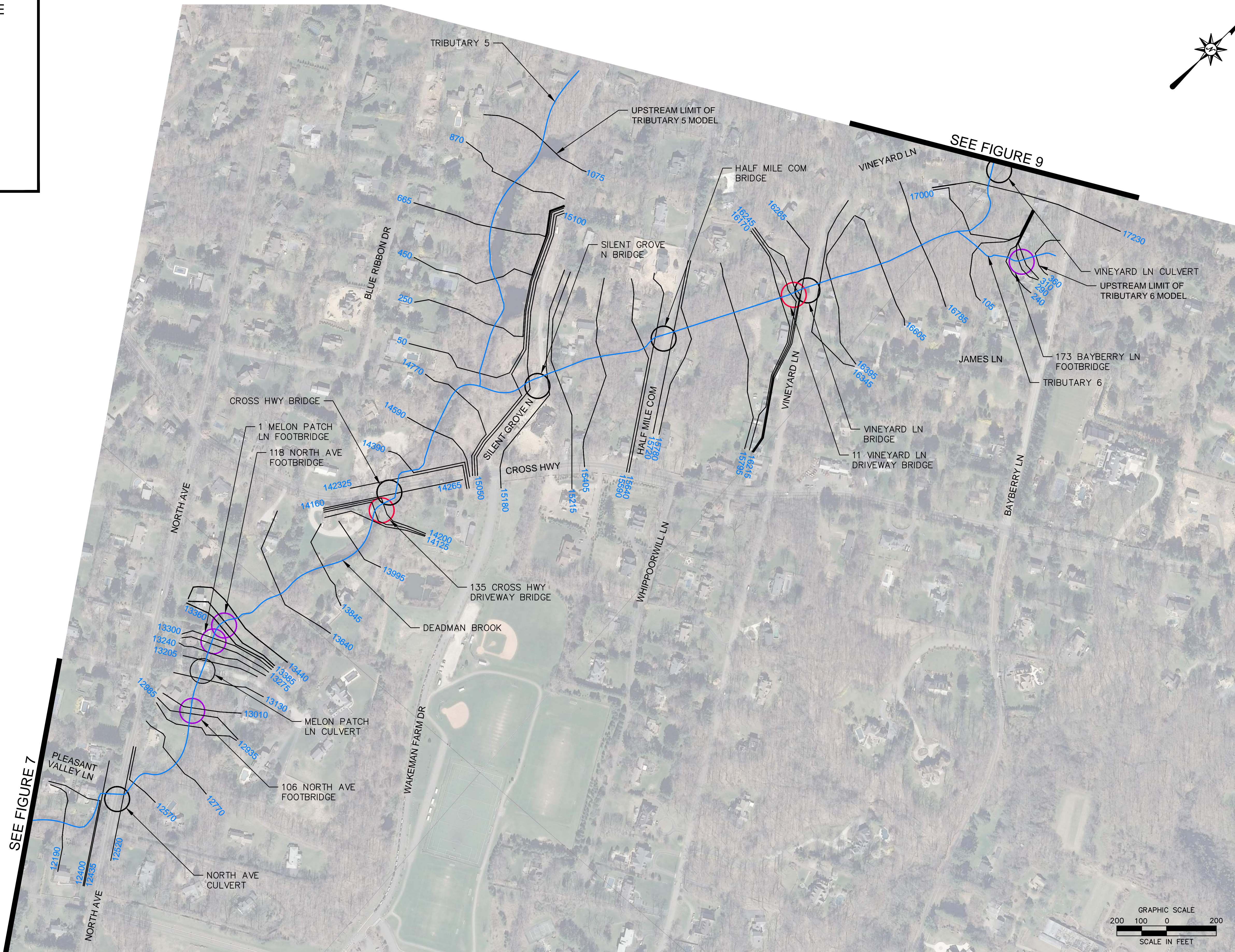
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Designed		B.G.R.
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FIGURE 7



LEGEND

- PEDESTRIAN BRIDGE
- DRIVEWAY BRIDGE
- ROADWAY BRIDGE



ARCHITECTURE
ENGINEERING
ENVIRONMENTAL
LAND SURVEYING

355 Research Parkway
Meriden, CT 06450
(203) 630-1406
(203) 630-2615 Fax

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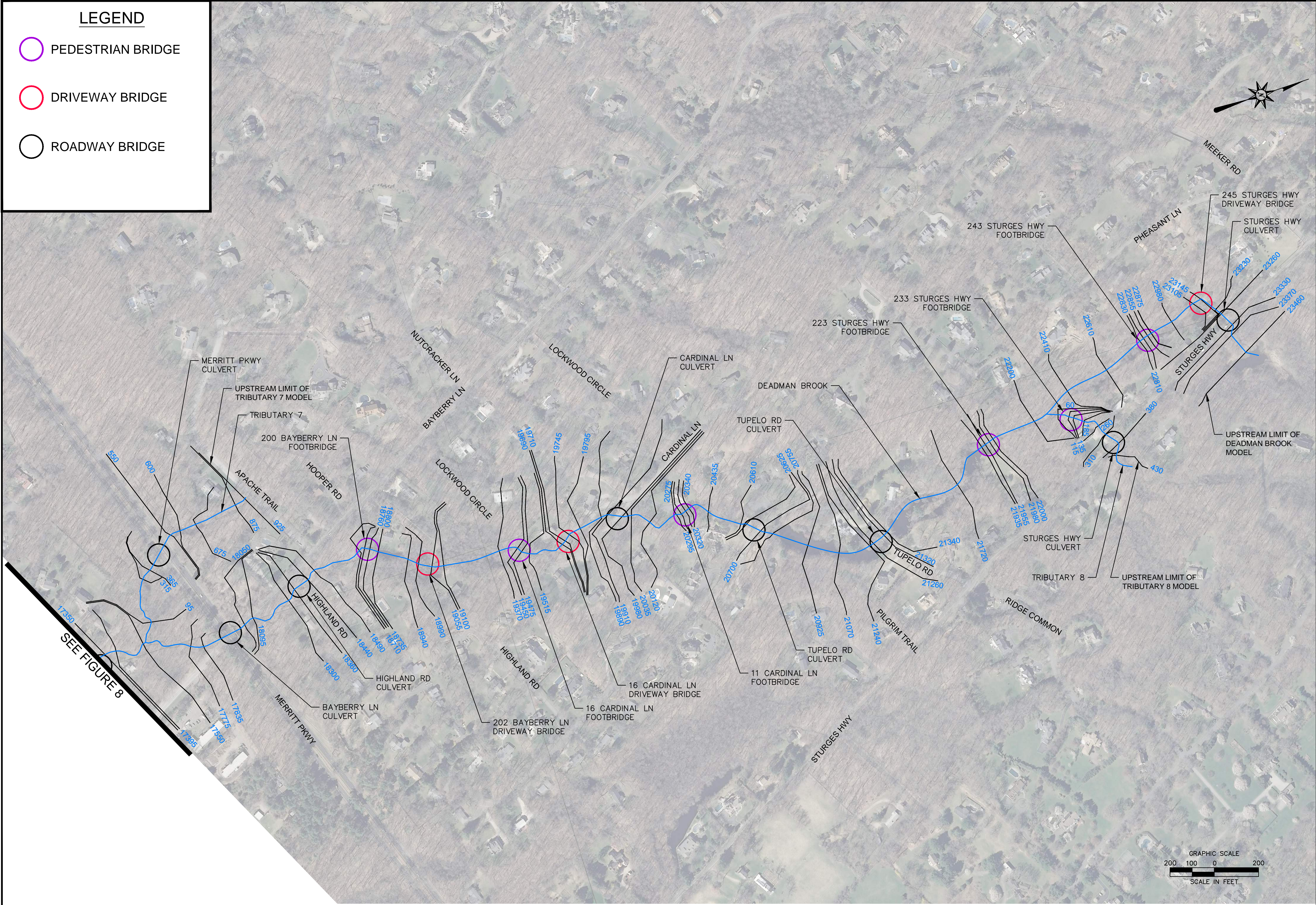
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FIGURE 8



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Title		HYDRAULIC CROSS-SECTIONS 4
Sheet No.		

FIGURE 9

SECTION 5 - EXISTING CONDITIONS

5.1 Deadman Brook

Deadman Brook begins in a forested area, approximately 140-feet east of Sturges Highway. At Sturges Highway, the brook is conveyed through an 18" RCP below the roadway. Beyond the crossing, the brook flows through forested land, approximately 1,000-feet south, at a 0.1% slope, until reaching the confluence with Tributary 8. Between Sturges Highway and the Tributary 8 confluence, the brook is crossed by two structures; a driveway bridge and a footbridge.

From the Tributary 8 confluence, Deadman Brook flows approximately 300-feet south until reaching two consecutive inline ponds. The ponds are bordered by 1 acre lot residential properties. Between the Tributary 8 confluence and the upstream Tupelo Road crossing, the brook is only crossed by a footbridge, approximately 300-feet downstream of the Tributary 8 confluence.

The outlets of the Tupelo Road inline ponds are controlled by the pipe crossings below Tupelo Road, which crosses over Deadman Brook twice. The upstream Tupelo Road crossing consists of two pipes; a 24" RCP used to convey the main channel during average daily flow and an 18" RCP used for overflow during larger storm events. The downstream Tupelo Road crossing consists of an 18" RCP. In the Existing Conditions Model, both Tupelo Road crossings overtop beginning at the 2-year storm event. Once Deadman Brook is conveyed through the downstream Tupelo Road crossing, the brook flows southwest toward Bayberry Lane.

As Deadman Brook flows southwest of Tupelo Road, it travels at a 0.7% slope through forests with 1 acre residential properties dispersed throughout. Approximately 3,000-feet downstream, Deadman Brook reaches the confluence with Tributary 7. In this segment, the brook is crossed by eight structures; two driveway bridges, three footbridges and three roadway crossings (Cardinal Lane, Highland Road and Bayberry Lane). Cardinal Lane consists of two 30" RCPs and Highland Road consists of a 24" RCP. In the Existing Conditions Model, Cardinal Lane begins to overtop between the 10-year and 50-year storm events and Highland Road begins to overtop during the 2-year storm event.

Bayberry Lane is approximately 2,650-feet downstream of the Tupelo Road crossing. At the crossing, the Merritt Parkway cross over Bayberry Lane, which crosses over Deadman Brook. The brook is conveyed from the northeast quadrant to the southwest quadrant through two 24" RCPs. In the Existing Conditions Model, Deadman Brook begins to overtop Bayberry Lane between the 2-year and 10-year storm events. Once flow is conveyed downstream of the Bayberry Lane crossing, Deadman Brook travels approximately 300-feet south before reaching the confluence with Tributary 7.

From the Tributary 7 confluence, Deadman Brook flows south at a slope of 0.3% before reaching Vineyard Lane. Vineyard Lane is approximately 250-feet south of the Tributary 7 confluence. At Vineyard Lane, the brook is conveyed below the roadway through two 48" RCPs. In the Existing Conditions Model, Vineyard Lane begins to overtop between the 50-year and the 100-year storm events. From Vineyard Lane, the brook travels approximately 300-feet south before reaching the confluence with Tributary 6.

Downstream of the Tributary 6 confluence, Deadman Brook flows approximately 2,100-feet southwest, at a 0.2% slope, before reaching the confluence with Tributary 5. In this segment of Deadman Brook, the brook crosses underneath a driveway bridge and three roadways (Vineyard Lane, Half Mile Common and Silent Grove North). Each crossing consists of two 48" RCPs. The surrounding area in this portion of the brook generally consists of forested land with 1 acre residences dispersed throughout. Once the brook crosses Silent Grove North, the surrounding area is largely made up of densely grassed area. In the Existing Conditions Model, the Vineyard Lane crossing overtops between the 10-year and 50-year storm events. For the Half Mile Common and Silent Grove North crossings, the roadways begin to overtop between the 2-year and 10-year storm events.

From the Tributary 5 confluence, Deadman Brook travels south at a 0.2% slope before reaching Cross Highway. Cross Highway is approximately 280-feet downstream of the Tributary 5 confluence. At Cross Highway, the brook is conveyed through a 10-foot wide x 3.4-foot high concrete box culvert. In the Existing Conditions Model, the brook begins to overtop Cross Highway between the 10-year and 50-year storm events.

Once downstream of Cross Highway, Deadman Brook flows approximately 1,800-feet south, at a 1.0% slope, before reaching North Avenue. Between Cross Highway and North Avenue, the brook is crossed by five structures; one driveway bridge, one roadway crossing (Melon Patch Lane) and three footbridges. The surrounding area largely consists of 1 acre residences. At North Avenue, the brook is conveyed through two 48" RCPs below the roadway. In the Existing Conditions Model, the brook begins to overtop North Avenue between the 10-year and 25-year storm events.

From the North Avenue crossing, Deadman Brook flows approximately 3,300-feet southwest, at a 1.1% slope, before reaching the confluence with Tributary 4. The surrounding area in this portion of the brook consists of forests with 1 acre residences dispersed throughout. In this segment of Deadman Brook, the brook crosses under five footbridges, two driveway bridges and two roadways: Pumpkin Hill Road and Leslie Lane. Each of the roadway crossings consists of three 36" RCPs. In the Existing Conditions Model, Pumpkin Hill Road begins to overtop between the 10-year and 50-year storm events, while Leslie Lane overtops between the 2-year and 10-year storm events.

Downstream of the Tributary 4 confluence, Deadman Brook travels approximately 500-feet southwest, at a 1.0% slope, before reaching Roseville Road. Between the Tributary 4 confluence and Roseville Road, the brook only crosses under a driveway bridge. At Roseville Road, the brook is conveyed through two 48" RCPs. In the Existing Conditions Model, the roadway begins to overtop between the 2-year and 10-year storm events. From the Roseville Road crossing, the brook travels approximately 250-feet at a 2.2% slope before flowing down a rock face, dropping 23-feet vertically over a distance of 150-feet. Just beyond the bottom of the rock face is the brook's confluence with Tributary 3.

From the confluence with Tributary 3, Deadman Brook flows 380-feet southwest at a 3.2% slope before reaching the brook's confluence with Tributary 2. In this segment of the brook, the bordering area largely consists of forested land. Approximately 280-feet further downstream, the brook reaches the 14 Lost Lodge Lane driveway bridge. The bridge consists of a 4-foot wide x 3.5-foot high single-span, concrete superstructure. Due to this narrowed opening, the brook is

restricted, inciting overtopping during lower storm events. In the Existing Conditions Model, the driveway bridge begins to overtop during the 2-year storm event. Between the Tributary 3 confluence to 14 Lost Lodge Lane driveway bridge, the brook is crossed by two footbridges.

From the Tributary 2 confluence, Deadman Brook flows southwest at a 2.1% slope before reaching Compo Road North. Compo Road North is approximately 2,300-feet downstream of the Tributary 2 confluence. In this segment of the brook, the surrounding area mainly consists of forested land. At the Compo Road North crossing, the brook is conveyed through two 6-foot wide box culverts with varying heights. The eastern box culvert has a 6.6-foot height and the western, overflow box culvert has a 6-foot height. In the Existing Conditions Model, Deadman Brook begins to overtop Compo Road North between the 10-year and 50-year storm events.

Downstream of Compo Road North, Deadman Brook flows approximately 1,600-feet southwest, traveling at a 0.7% slope before reaching Evergreen Avenue. In this portion of the brook, the surrounding area consists of ½ acre residential lots. From Compo Road North to Evergreen Avenue, the brook is crossed by two driveway bridges and two footbridges. At the Evergreen Avenue crossing, the brook is conveyed through a 13-foot wide x 4.4-foot high box culvert. In the Existing Conditions Model, Deadman Brook begins to overtop Evergreen Avenue between the 10-year and 50-year storm events. Once the brook crosses Evergreen Avenue, the brook travels 360-feet southwest to the confluence with Tributary 1.

From the confluence with Tributary 1, Deadman Brook flows south at a 0.3% slope until it reaches an inline pond, just upstream of the 22 Evergreen Avenue driveway bridge. The pond is approximately 650-feet downstream of the confluence with Tributary 1. A weir structure at the driveway bridge restricts the amount of flow able to outlet the pond area and continue downstream. Between the confluence with Tributary 1 and the 22 Evergreen Avenue driveway bridge, Deadman Brook is surrounded by ½ acre residential properties. In this portion of the brook, there are two footbridges that cross the brook just downstream of the Tributary 1 confluence.

Once the flow outlets the pond, Deadman Brook continues to flow south toward Myrtle Avenue at a 0.8% slope. Between the 22 Evergreen Avenue pond to Myrtle Avenue, the brook is bounded by ½ acre residential properties. From the driveway bridge to Myrtle Avenue, the brook crosses under five footbridges. At Myrtle Avenue, Deadman Brook is conveyed under the roadway through a 10-foot wide x 3.6-foot high single span masonry superstructure.

Downstream of the Myrtle Avenue crossing, the surrounding area transforms into a commercial setting, consisting of commercial buildings and connecting parking lots. From Myrtle Avenue to U.S. Route 1, the channel of Deadman Brook is narrowed to an approximate width of 4.4-feet. The induced pinching within the channel restricts the allowable flow able to pass, resulting in flooding during lower storm events. In the Existing Conditions Model, Myrtle Avenue begins to flood during the 2-year storm event.

The brook is conveyed underneath U.S. Route 1 through a four-sided concrete box culvert. The length of the box culvert is approximately 260-feet. The box culvert makes multiple bends and is inconsistent in hydraulic area. The general opening size is 14-feet wide and 7-feet high.

Downstream of U.S. Route 1, Deadman Brook travels approximately 1,500-feet southwest at a slope of 0.3%, before ultimately outletting into the Saugatuck River. Deadman Brook is tidally influenced by the Long Island Sound in the lower portion of the brook. As shown on the FEMA Flood Profile for Deadman Brook, the tidal influence extends to U.S. Route 1. From U.S. Route 1 to the Saugatuck River, the brook crosses under two structures; the Jesup Road crossing and a footbridge. The Jesup Road crossing consists of a 11-foot wide x 8.5-foot high, single span superstructure. The Existing Conditions Model shows the roadway overtopping beginning at the 2-year storm event. The footbridge is raised high above the brook and is not impacted during any storm event.

5.2 Deadman Brook Tributaries

Tributary 1 is approximately 4,900-feet long. The tributary begins just west of Roseville Road and flows west through several residential properties for approximately 3,000-feet before reaching Turtleback Lane. Between the start of the tributary to Turtleback Lane, Tributary 1 crosses under Pamela Place, Plumtree Lane, Fernwood Road and Peaceful Lane. Approximately 1,100-feet downstream of the tributary's origin point, Tributary 1 combines with a smaller tributary, which begins at a small pond between Plumtree Lane and Fernwood Road.

Once Tributary 1 reaches Turtleback Lane, it enters a storm drainage system with several junction chambers within it. In the storm drainage system, the tributary combines with captured runoff from Turtleback Lane and Whitney Street.

From the Turtleback Lane storm outlet (the start of the Tributary 1 hydraulic model), Tributary 1 flows west. The tributary crosses under Compo Road North, approximately 800-feet upstream of the confluence with Deadman Brook. In addition to the crossing below Compo Road North, Tributary 1 crosses below two driveway bridges and three pedestrian bridges.

Tributary 2 is approximately 250-feet long. Tributary 2 begins at a storm drainage outlet from Deerwood Road and travels northwest to the confluence with Deadman Brook. There are no bridge crossings along Tributary 2.

Two tributaries combine to become Tributary 3. Tributary 3A is approximately 1,100-feet long. This tributary begins at a storm drainage outlet from Victoria Lane and flows south until combining with Tributary 3B and forming Tributary 3. As runoff flows south, it crosses under Clover Lane, approximately 500-feet from the confluence with Tributary 3B. In addition to the roadway crossing below Clover Lane, there are three pedestrian footbridges Tributary 3A crosses below.

Tributary 3B is approximately 2,000-feet long. The tributary begins at a pond within the residential developments off Abbotts Lane and Kensington Place, and flows south until combining with Tributary 3A. As runoff flows south, it crosses under Abbotts Lane, approximately 1,800-feet from the confluence with Tributary 3A, and Clover Lane, approximately 1,200-feet from the confluence with Tributary 3A. Along Tributary 3B, there are five structure crossings: three driveway bridges and two roadway bridges.

Tributary 3 is approximately 2,000-feet long. Tributary 3 begins at the confluence of Tributaries 3A and 3B. From the confluence, Tributary 3 flows south, crossing under Joann Circle twice (the

first crossing is approximately 1,800-feet upstream of the confluence with Deadman Brook and the second crossing is approximately 930-feet upstream of the confluence). Further downstream, the runoff crosses under Roseville Avenue, approximately 500-feet from the confluence with Deadman Brook. There are eight structures along Tributary 3: one driveway bridge, four pedestrian footbridges and three roadway crossings.

Tributary 4 is approximately 140-feet long. The tributary begins within a forested area, just north of the intersection of Black Birch Road and Roseville Road, and flows northwest towards the confluence with Deadman Brook. As runoff flows northwest, it crosses under Lehn Farms Road, approximately 280-feet from the confluence.

Tributary 5 is approximately 1,100-feet long. The tributary begins at a pond, which collects runoff from Silent Grove North, and flows south toward the confluence with Deadman Brook. This tributary does not cross under any structures.

Tributary 6 is approximately 360-feet long. The tributary begins at a storm drainage outlet discharging runoff from Bayberry Lane and flows west toward the confluence with Deadman Brook. There is one pedestrian footbridge along the tributary.

Tributary 7 is approximately 930-feet long. The tributary begins at a storm drainage outlet discharging runoff from Apache Trail and travels south toward the confluence with Deadman Brook. As the tributary travels south, it is conveyed underneath the Merritt Parkway through a 36" RCP, approximately 400-feet north of the confluence.

Tributary 8 is approximately 430-feet long. The tributary begins within a forested area, just west of Sturges Highway and travels south toward the confluence with Deadman Brook. As the tributary travels south, it is conveyed underneath Sturges Highway, approximately 350-feet east of the confluence. The tributary contains two crossings, a pedestrian footbridge and the Sturges Highway crossing.

The Existing Conditions Model HEC-RAS output tables for Deadman Brook and its tributaries (for all storm events) are included in Appendix C.

5.3 FEMA Floodplain Comparison

The 100-year inundation limit of the Existing Conditions Model was compared to the FEMA 100-year floodplain. The upstream limit of the FEMA study is at Cardinal Lane. Throughout the watershed, the 100-year inundation limit was found to be similar to the FEMA floodplain along Deadman Brook.

A few areas show a significant difference between the 100-year inundation limits (see Figures 10 through 12). The first area is north of the Merritt Parkway near Apache Trail and Highland Road. In this area, the Existing Conditions 100-year floodplain was found to have an inundation area 71% less than the FEMA floodplain. If the Existing Conditions Model was utilized, five residential properties would be removed from the FEMA floodplain.

The second area that saw a significant difference was along Deadman Brook between Deerwood Lane and Compo Road North. In this area, the Existing Conditions 100-year floodplain was found to have an inundation area 18% less than the FEMA floodplain. If the Existing Conditions Model was utilized, two residential properties would be removed from the FEMA floodplain.

The third area that saw a significant difference was along Deadman Brook between Compo Road North and Evergreen Avenue. In this area, the Existing Conditions 100-year floodplain was found to have an inundation area 23% less than the FEMA floodplain. If the Existing Conditions Model was utilized, two residential properties would be removed from the FEMA floodplain.

The inundation of the Existing Conditions 100-year event was also compared to the FEMA floodplain along the tributaries. Several tributaries (Tributary 1, Tributary 3 and Tributary 6) are shown to experience flooding in the Existing Conditions Model, but are outside of the FEMA floodplain. Most notably, flooding occurs along Tributary 1 and Tributary 3. For Tributary 1, the Existing Conditions Model shows six residences impacted by the 100-year floodplain limit, as well as overtopping of Compo Road North. For Tributary 3, the Existing Conditions Model shows sixteen residences impacted by the 100-year floodplain limit, as well as overtopping at Abbotts Clover Lane (two crossing locations) and Joann Circle (two crossing locations).

5.4 Natural Conditions Model

A Natural Conditions Model was developed for the entire watershed. The Natural Conditions Model deleted all existing bridges and culverts to determine the effect the existing structures have on the hydraulic characteristics of the watershed.

Once the Natural Conditions Model was developed, the natural 100-year water surface elevations and inundation limits were compared to the elevations and corresponding inundation limits computed by the Existing Conditions Model. Substantial differences in water surface elevations (WSELs) and inundation limits between these models may allude to possible impoundment of the brook due to undersized crossings. Several sections of the brook (main channel and tributaries) were examined as possible crossing replacements options.

Along Tributary 3, between the furthest upstream Joann Circle Drive crossing and Roseville Road, the surrounding area largely consists of 1 acre residences. In this section of the brook, the natural 100-year water surface elevations ranged from 1.33-feet to 8.10-feet lower than existing. Due to the differences in the floodplain and the amount of development within the existing floodplain, the replacement of the Roseville Road crossing was examined in Alternative 7.

From Highland Road to Bayberry Lane, the area surrounding the brook consists of a mixture of ½ acre residences and forested area. The brook in this area runs along Bayberry Lane. In this section, the natural 100-year WSELs range between 0.07-feet and 2.52-feet lower than existing. Due to the differences in the 100-year floodplains, the replacement of the crossing was examined in Alternative 10.

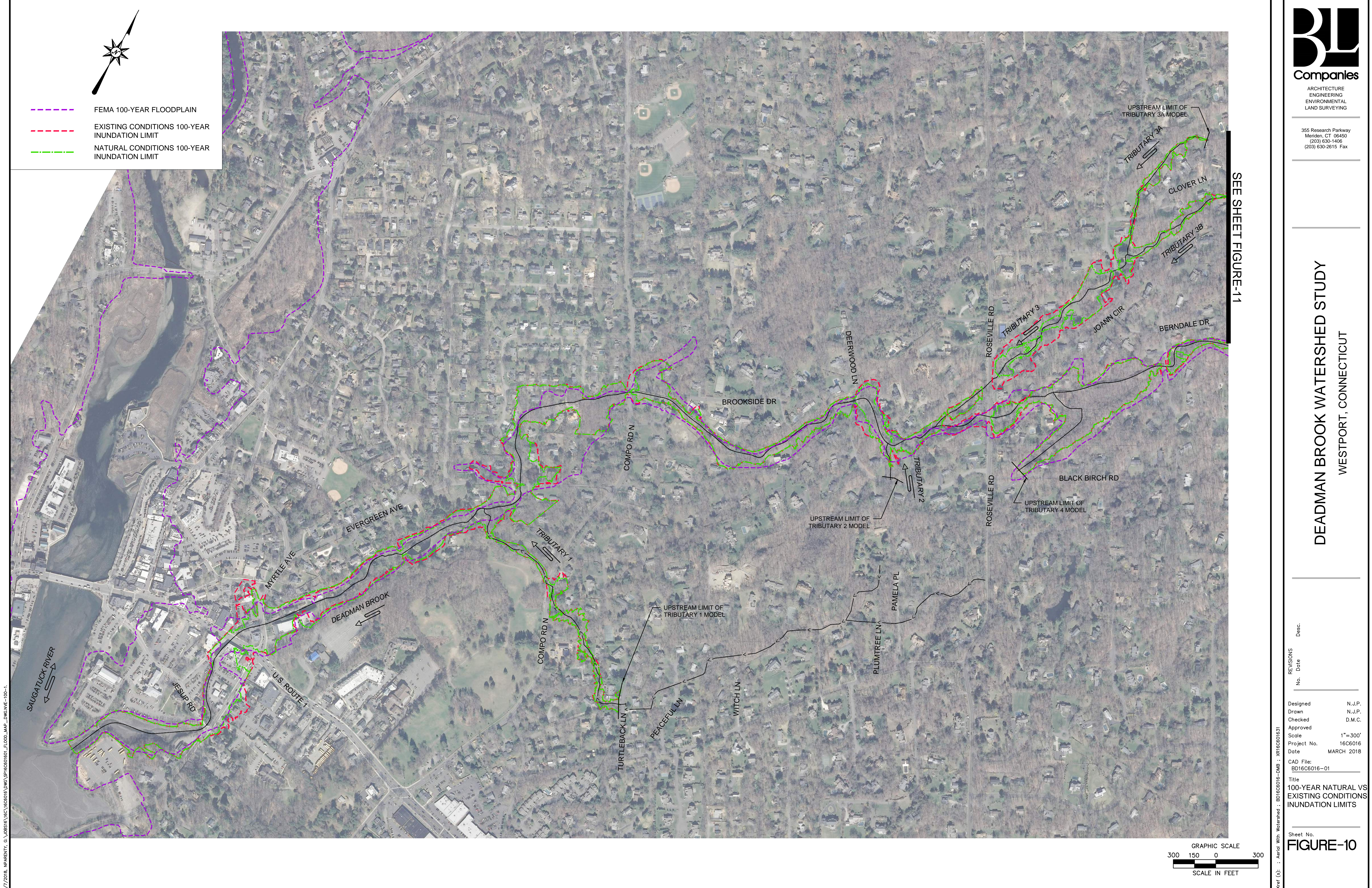
From Sturges Highway to the furthest upstream Tupelo Road crossing, the brook is largely surrounded by forested area with 1 acre residences mixed throughout. In this portion of the brook, the natural 100-year WSELs ranged between 0.82-feet and 1.81-feet lower than existing. Due to

the differences in the 100-year floodplains, the replacement of the Tupelo Road crossing was examined in Alternative 11.

Along Tributary 7, between Apache Trail to the Merritt Parkway, the surrounding area consists of flat, forested area. In this portion of the tributary, the natural 100-year WSELs range between 2.36-feet and 4.33-feet lower than existing. Although this area may see improvement from replacing the existing crossing under the Merritt Parkway, the replacement would lead to the loss of flood storage and result in larger flows downstream, impacting developed residences. For that reason, the replacement of the Merritt Parkway crossing was not examined in the alternatives.

Portions of Deadman Brook also saw increased natural water surface elevations. From the 22 Evergreen Avenue driveway bridge to Myrtle Avenue, the surrounding area of the brook largely consists of ½ acre residences. The natural 100-year WSELs range between 4.82-feet higher than existing to 1.25-feet lower than existing. The significance of increase in this portion of the brook demonstrates the backwater impact caused by the reduced channel width downstream of Myrtle Avenue. For flooding to be reduced at the business/downstream portion of Deadman Brook, upstream improvements need to reduce flow rates heading downstream.

See Figure 10 through Figure 12 for a comparison of the inundation limits of the existing and natural conditions. The Natural Conditions Model HEC-RAS output tables for all storm events are included in Appendix D.



FEMA 100-YEAR FLOODPLAIN

EXISTING CONDITIONS 100-YEAR INUNDATION LIMIT

NATURAL CONDITIONS 100-YEAR INUNDATION LIMIT

ARCHITECTURE
ENGINEERING
ENVIRONMENTAL
LAND SURVEYING

355 Research Parkway
Meriden, CT 06450
(203) 630-1406
(203) 630-2615 Fax

DEADMAN BROOK WATERSHED STUDY

WESTPORT, CONNECTICUT

REVISIONS

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Designed

N.J.P.

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N.J.P.

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D.M.C.

Approved

Scale

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Project No.

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Date

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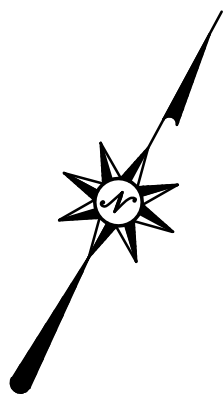
100-YEAR NATURAL VS
EXISTING CONDITIONS
INUNDATION LIMITS

Sheet No.

FIGURE-10

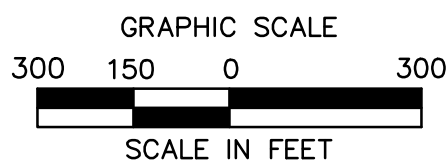
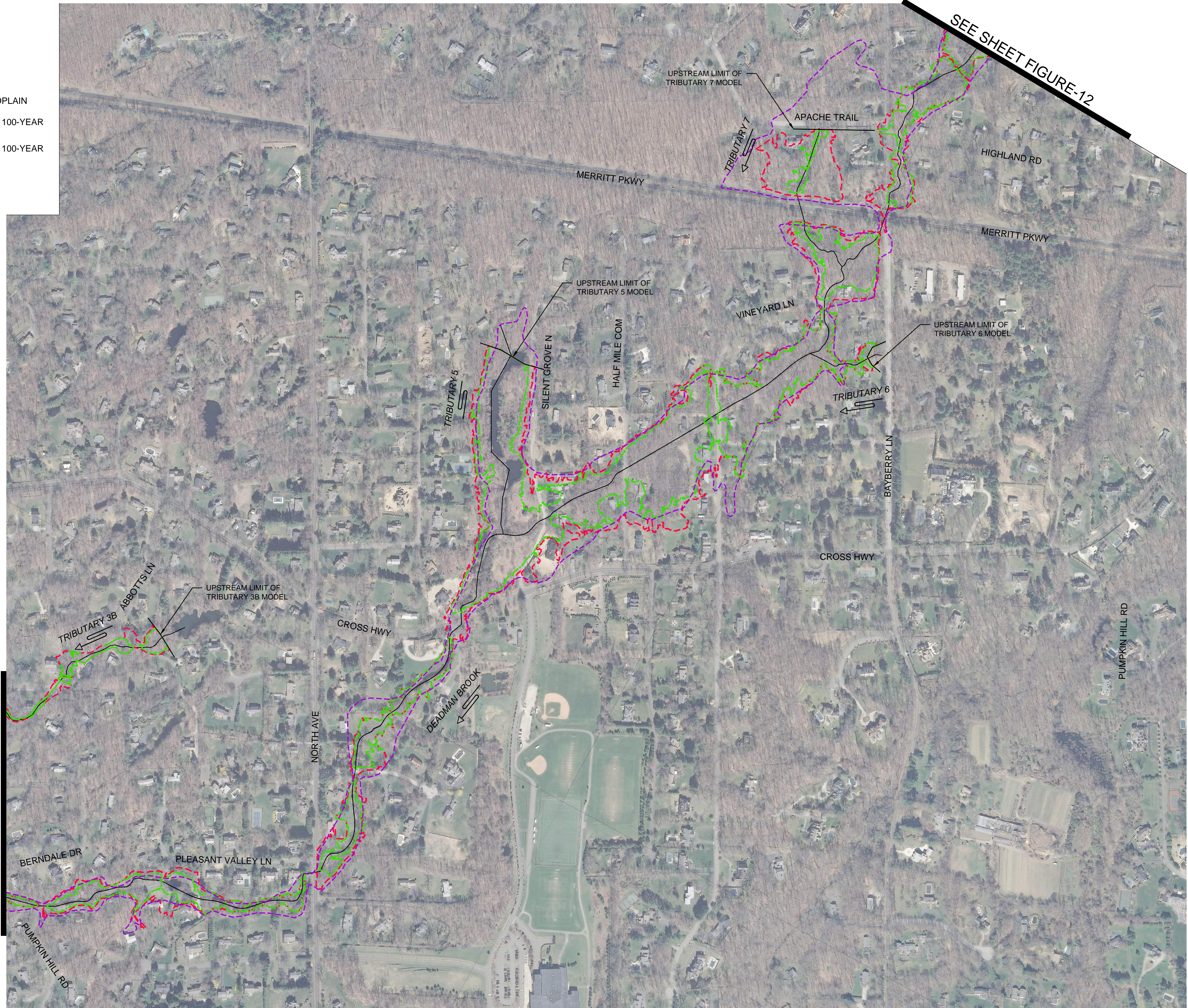
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: Aerial With Waterlined : BD16C6016-DMB : XR16C601631



- FEMA 100-YEAR FLOODPLAIN
- EXISTING CONDITIONS 100-YEAR INUNDATION LIMIT
- NATURAL CONDITIONS 100-YEAR INUNDATION LIMIT

SEE SHEET FIGURE-10



DEADMAN BROOK WATERSHED STUDY
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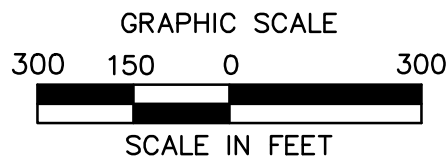
Title
100-YEAR NATURAL VS
EXISTING CONDITIONS
INUNDATION LIMITS

Sheet No.
FIGURE-11



- FEMA 100-YEAR FLOODPLAIN
- EXISTING CONDITIONS 100-YEAR INUNDATION LIMIT
- NATURAL CONDITIONS 100-YEAR INUNDATION LIMIT

SEE SHEET FIGURE-11



DEADMAN BROOK WATERSHED STUDY
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Date MARCH 2018

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BD16C6016-01

Title
100-YEAR NATURAL VS
EXISTING CONDITIONS
INUNDATION LIMITS

Sheet No.
FIGURE-12

SECTION 6 - POTENTIAL IMPROVEMENTS

Several design alternatives were developed with the goal of minimizing and reducing flooding within the Deadman Brook watershed where possible. Potential improvements developed include replacing undersized bridge crossings, widening the channel at highly developed sections, and providing storage areas to reduce the overall peak flows of the brook. The location of each alternative is shown on Figure 13.

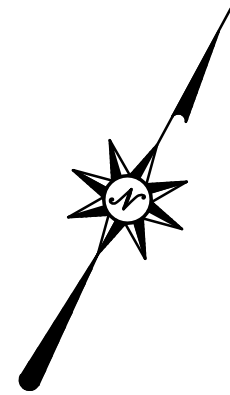
6.1 Alternative 1: Channel Widening from Myrtle Avenue to U.S. Route 1

From coordination with the Town, it is understood that the area between Myrtle Avenue and U.S. Route 1 will be redeveloped and the Town (and developer) desire to have an open watercourse through the property. The current area surrounding the channel is largely made up of impervious surfaces, mainly consisting of retail stores and a parking lot. In the Existing Conditions Model, the channel between Myrtle Avenue and U.S. Route 1 begins to overtop during the 2-year storm event.

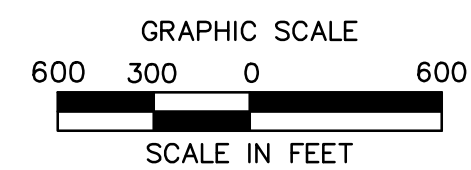
Alternative 1 explored the channel width necessary to contain the 2-year storm event within the banks of a realigned brook. To accomplish this, the channel bottom of Deadman Brook requires a width of 25-feet. The existing channel bottom width has an approximate width of 4-feet. To limit the disturbance of the existing businesses east of the brook, the eastern bank's vertical wall was retained. The western bank was graded at a 2H:1V slope to increase the capacity of the brook.

2-Year Water Surface Elevations (feet) Deadman Brook			
Section	Existing	Alternative 1	Alternative 1 vs. Existing
2300	14.71	14.71	0.00
2310	14.44	14.43	-0.01
Footbridge	----	----	----
2285	13.51	13.19	-0.32
2225	13.54	13.05	-0.49
2130	13.37	12.71	-0.66
2080	13.43	12.80	-0.63
Myrtle Ave	----	----	----
2025	12.20	10.38	-1.82
1975	11.57	10.35	-1.22
1920	10.13	10.38	+0.25
1875	10.13	10.37	+0.24
U.S. Route 1	----	----	----

The 2-year storm event water surface elevations (WSELs) for the Alternative 1 model were compared to the Existing Conditions Model. At Section 2025, the Myrtle Avenue downstream bridge face, the Alternative 1 2-year WSEL is 1.82-feet lower than existing. At Section 1975, the Alternative 1 2-year WSEL is 1.22-feet lower than existing. Due to the undersized bridge opening of the U.S. Route 1 crossing, Sections 1920 and 1875 saw an increase in elevations, but the flow



OVERALL



DEADMAN BROOK WATERSHED STUDY
WESTPORT, CONNECTICUT

REVISIONS		Desc.
No.	Date	
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Designed		N.J.P.
Drawn		N.J.P.
Checked		D.M.C.
Approved		
Scale	1"=600'	
Project No.	16C6016	
Date	MARCH 2018	
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Title		
POTENTIAL IMPROVEMENTS MAP		

remains within the widened channel. Downstream of U.S. Route 1, the Alternative 1 WSELs match existing.

The Alternative 1 100-year storm event water surface elevations were also compared to the Existing Conditions Model. Like the 2-year storm event, the channel widening produced a decrease in water surface elevations immediately downstream of Myrtle Avenue. At Section 2025, the Myrtle Avenue downstream bridge face, the Alternative 1 100-year WSEL decreased 0.80-feet. At Section 1975, the Alternative 1 WSEL decreased 0.19-feet. However, flooding still occurs as the surrounding grade has a general elevation of 10.50-feet.

100-Year Water Surface Elevations (feet) Deadman Brook			
Section	Existing	Alternative 1	Alternative 1 vs. Existing
2300	16.10	16.10	0.00
2310	16.15	16.15	0.00
Footbridge	----	----	----
2285	15.06	15.06	0.00
2225	15.05	15.05	0.00
2130	14.36	14.36	0.00
2080	14.41	14.26	-0.15
Myrtle Ave	----	----	----
2025	13.97	13.17	-0.80
1975	13.34	13.15	-0.19
1920	13.23	13.24	+0.01
1875	13.23	13.23	0.00
U.S. Route 1	----	----	----

The widened channel has a limited impact upstream of the Myrtle Avenue crossing. At the Myrtle Avenue upstream bridge face, Section 2080, the Alternative 1 WSEL is 0.15-feet lower than existing. Upstream of Section 2080, the Alternative 1 and existing water surface elevations match.

A larger channel within this section of the brook was modeled, but the water surface elevation reductions during the higher intensity storm events were minimal. Additional widening in this area would also increase impacts to valuable real estate property (possibly decreasing or eliminating the developer's interest).

The construction cost of Alternative 1 is estimated to be \$90,000, including incidentals, contingencies, a minor item allowance and two years of inflation at 5% per year. Design, permitting and right-of-way fees are not included.

6.2 Alternative 2: Channel Widening from Evergreen Avenue to Myrtle Avenue

Alternative 2 examined widening the Deadman Brook channel from Evergreen Avenue to Myrtle Avenue. Along this portion of the channel, the surrounding area largely consists of ½ acre residential homes. When the brook overtops the channel in this area, the overtopping water directly

impacts the residences built along the brook. Due to limited undeveloped area along the brook, the alternative was limited to widen the channel bottom to a uniform width of 10-feet. This limit was selected for environmental and private property impact considerations. The banks of the channel were graded at a 2H:1V slope. Additionally, all existing pedestrian footbridges between Evergreen Avenue and Myrtle Avenue were removed from the model. The existing driveway bridge and existing inline flood storage area at 22 Evergreen Avenue remained in the model, as both currently provide floodplain relief to the properties downstream.

According to the Existing Conditions Model, the channel begins to overtop its bank beginning at the 2-year storm event, with seven residential homes impacted during the 10-year storm event; 2 Violet Lane, 4 Violet Lane, 6 Violet Lane, 9 Violet Lane, 10 Violet Lane, 46 Evergreen Avenue and 52 Evergreen Avenue.

To understand the benefit of the channel widening, the Alternative 2 10-year and 100-year water surface elevations were compared to the Existing Conditions elevations. Upstream of Evergreen Avenue, the Alternative 2 10-year WSELs match existing WSELs. From Evergreen Avenue to the 22 Evergreen Avenue driveway, the widened channel reduces WSELs between 0.42-feet and 2.01-feet. In this portion of the channel, the banks will continue to overtop during the 10-year storm event. However, the brook will contain the 2-year storm event until approximately 500-feet downstream of Evergreen Avenue. At this point the Alternative 2 2-year storm event WSELs begin to converge with the existing WSELs.

Water Surface Elevations (feet)						
Deadman Brook						
Section	Existing		Alternative 2		Alternative 2 vs. Existing	
	10-Year	100-Year	10-Year	100-Year	10-Year	100-Year
Evergreen Ave	----	----	---	----	----	----
4255	29.04	30.56	27.03	29.98	-2.01	-0.58
4030	28.14	30.79	27.02	30.64	-1.12	-0.15
3790	26.80	30.56	25.64	30.46	-1.16	-0.10
3765	26.48	30.57	26.06	30.54	-0.42	-0.03
3685	25.78	30.47	25.83	30.49	+0.05	+0.02
Dam/Driveway	----	----	---	----	----	----
3215	20.79	21.94	19.41	21.94	-1.38	0.00
3065	19.42	20.22	18.53	18.71	-0.89	-1.51
2790	18.35	19.49	17.03	18.64	-1.32	-0.85
2715	17.51	19.03	16.75	17.49	-0.02	-1.54
2525	16.90	18.53	16.57	16.29	-0.33	-2.24
2375	16.60	17.20	16.55	15.62	-0.05	-1.58
2310	16.59	16.15	16.56	15.17	-0.03	-0.98
2285	16.58	15.06	16.57	14.86	-0.01	-0.20
2080	16.58	14.41	16.58	14.41	0.00	0.00
Myrtle Ave	----	----	---	----	----	----

Downstream of the 22 Evergreen Avenue driveway, the widened channel continues to show reduced 10-year WSELs, decreasing elevations over 1-foot in some portions. This portion of the channel will also contain the 2-year storm event until approximately 1,000-feet downstream of the 22 Evergreen Avenue driveway. At this point, the impoundment due to undersized opening of Myrtle Avenue negates any improvements made upstream. Downstream of the Myrtle Avenue crossing, the Alternative 2 10-year WSELs match existing.

To observe the widened channel's impact to the floodplain, the Alternative 2 100-year water surface elevations were also compared to Existing Conditions elevations. Upstream of Evergreen Avenue, the Alternative 2 WSELs match existing. Between Evergreen Avenue and the 22 Evergreen Avenue driveway, the WSELs lower between 0.03-feet and 0.58-feet.

Downstream of the 22 Evergreen Avenue driveway, the Alternative 2 WSELs range from 0.00-feet to 2.24-feet lower than existing. Although there are areas upstream of Myrtle Avenue with substantial decreases in 100-year water surface elevations, the amount of flow traveling to the roadway structures does not change. In terms of roadways overtopping, this results in a limited improvement at the roadway structures. In the Alternative 2 model, Myrtle Avenue begins to overtop during the 2-year storm event.

The construction cost of Alternative 2 is estimated to be \$520,000, including incidentals, contingencies, a minor item allowance and two years of inflation at 5% per year. Design, permitting and right-of-way fees are not included.

6.3 Alternative 3: Channel Widening from Silent Grove North to Bayberry Lane

Alternative 3 examined widening Deadman Brook from Silent Grove North to Bayberry Lane. In this alternative, the channel bottom was widened from an approximate existing width of 6-feet to a width of 10-feet to limit the impact on private property. The banks within this section were graded at a 4H:1V slope. Along this portion of the main channel, the surrounding area mainly consists of forested area with 1 acre residential homes dispersed throughout. According to the Existing Condition's floodplain, this portion of the brook has twenty-one residences impacted by the 100-year floodplain.

The decreases in water surface elevation for Alternative 3 are greatest in the area directly downstream of Silent Grove North. For the 10-year event, the area between Silent Grove North to the first crossing below Vineyard Lane had a WSEL decrease over 0.5-feet. Further downstream, there is little change in water surface elevations. The proposed widened brook is able to contain 10-year storm event, but overtops during the 50-year storm event.

In the Existing Conditions Model, the Vineyard Lane #1 crossing is shown to overtop during the 100-year storm event, with pressure flow beginning at the 50-year storm event. In the Alternative 3 model, overtopping during the 100-year storm event is eliminated. During the 500-year storm event, only pressure flow is experienced.

Water Surface Elevations (feet) Deadman Brook						
Section	Existing		Alternative 3		Alternative 3 vs. Existing	
	10-Year	100-Year	10-Year	100-Year	10-Year	100-Year
Bayberry Ln	----	----	----	----	----	----
17835	201.22	202.39	200.34	201.75	-0.88	-0.64
17550	200.03	202.36	199.25	201.83	-0.78	-0.53
17350	199.72	202.32	199.10	201.77	-0.62	-0.55
Vineyard Ln #1	----	----	----	----	----	----
17230	199.36	200.28	198.52	199.41	-0.84	-0.87
17000	198.74	199.42	198.40	199.07	-0.34	-0.35
16395	198.27	198.92	198.27	198.89	0.00	-0.03
16345	198.25	198.89	198.25	198.84	0.00	-0.05
Vineyard Ln #2	----	----	----	----	----	----
16265	197.80	198.33	197.80	198.15	0.00	-0.18
16245	197.51	198.38	197.51	198.23	0.00	-0.15
Driveway	----	----	----	----	----	----
16215	197.48	198.37	197.32	198.23	-0.17	-0.14
16170	197.51	198.36	197.32	198.23	-0.17	-0.13
15720	197.38	198.30	197.28	198.18	-0.10	-0.12
Half Mile Com	----	----	----	----	----	----
15640	197.35	198.27	197.11	198.16	-0.24	-0.11
15590	197.31	198.24	197.10	198.16	-0.21	-0.08
15215	197.21	198.11	197.08	198.12	-0.13	+0.01
15180	197.17	198.10	197.08	198.12	-0.09	+0.02
Silent Grove N	----	----	----	----	----	----

Downstream of the Vineyard Lane #1 crossing, the Alternative 3 model continues to experience reduced 10-year and 100-year water surface elevations. From the Vineyard Lane #1 crossing to Silent Grove North, the Alternative 3 10-year range from 0.00-feet to 0.84-feet lower than existing and the 100-year WSELs range from 0.03-feet to 0.87-feet lower than existing. In this section of the brook, the area surrounding channel consists forest with 1 acre residential homes dispersed throughout. In the Existing Conditions Model, the brook begins to overtop during the 2-year storm event, with the 100-year storm event severely impacting seventeen residences adjacent to the brook. Due to the flat nature of the area, the Alternative 3 proposed improvements are unable to prevent the 100-year floodplain from reaching these residences. However, the 2-year storm event is contained within the modified channel. Any additional modifications to the channel would require further disruption of the natural surroundings of the brook, leading to increased environmental impacts.

Between the Vineyard Lane #1 crossing and Silent Grove North, the brook crosses under two roadways; Vineyard Lane #2 and Half Mile Common. In the Existing Conditions Model, the brook overtops Vineyard Lane #2 and Half Mile Common during the 50-year storm event. In the Alternative 3 proposed improvements, overtopping continues to be experienced, during the 50-year storm event and above, at these locations.

The construction cost of Alternative 3 is estimated to be \$460,000, including incidentals, contingencies, a minor item allowance and two years of inflation at 5% per year. Design, permitting and right-of-way fees are not included.

6.4 Alternative 4: Underground Flood Storage Basin, Winslow Dog Park

Alternative 4 examined the addition of an offline, underground flood storage area within Winslow Dog Park. This alternative prioritized minimizing the amount of grading necessary to install the underground system, while also maximizing the capacity of the basin.

The underground basin consists of nine, 310-foot long 48" RCPs; totaling to an approximate storage capacity of 35,000 cubic feet. Flow would enter the storage basin through two 18" RCPs located within the banks of Deadman Brook. An outlet control structure would be placed at the exit of the basin, restricting the amount of flow that can reenter the brook. Flow passing through the outlet control structure would be conveyed through two 24" RCPs. The layout of the underground storage basin is shown on Figure 14.

SCS Flows (cfs) Deadman Brook at Myrtle Avenue				
Storm Event	Existing	Alternative 4	Alternative 4 vs. Existing	
2-Year	284.4	279.4	-5.0	-1.75%
10-Year	614.9	608.8	-6.1	-0.99%
50-Year	1,042.3	1,035.6	-6.7	-0.64%
100-Year	1,254.3	1,249.2	-5.1	-0.40%
500-Year	1,834.8	1,834.8	-0.0	0.00%

The addition of an offline flood storage basin saw a very small reduction in peak flows for all studied storm events. At Myrtle Avenue, the largest reduction of flow is seen during the 2-year storm event. The flow rate for the 2-year storm event is 279.4 cfs, 1.8% less than the Existing Conditions Model.

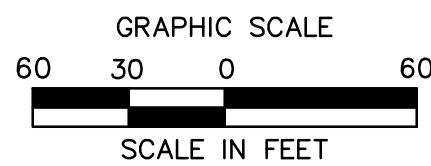
To observe the impact of the underground storage basin, the 10-year and 100-year water surface elevations for the Alternative 4 model were compared to the Existing Conditions elevations. From the 22 Evergreen Avenue driveway bridge to the storage basin's inlet (Section 3125), the Alternative 4 10-year WSELs are within 0.51-feet of existing and the 100-year WSELs are within 0.17-feet of existing.

Downstream of the storage basin's inlet, the Alternative 4 model does not significantly alter the 10-year and 100-year water surface elevations. Between the storage basin's inlet to Myrtle Avenue, the Alternative 4 10-year WSELs are within 0.17-feet of existing and the 100-year WSELs are within 0.18-feet of existing.

From the 22 Evergreen Avenue driveway bridge to Myrtle Avenue, the area surrounding Deadman Brook largely consists of ½ acre residences. Due to their proximity of the brook, once the brook begins to overtop, five properties are impacted. In the Existing Conditions Model, the brook begins to overtop during the 2-year storm event. In the Alternative 4 model, the brook continues to overtop during the 2-year storm event.



ALTERNATIVE 4



DEADMAN BROOK WATERSHED STUDY
WESTPORT, CONNECTICUT

REVISIONS
No. Date Desc.

Designed N.J.P.
Drawn N.J.P.
Checked D.M.C.
Approved
Scale 1"=60'
Project No. 16C6016
Date MARCH 2018

CAD File:
BD16C6016-01

Title
ALTERNATIVE 4
LAYOUT PLAN

Sheet No.

FIGURE-14

Water Surface Elevations (feet) Deadman Brook						
Section	Existing		Alternative 4		Alternative 4 vs. Existing	
	10-Year	100-Year	10-Year	100-Year	10-Year	100-Year
22 Evergreen Bridge	---	---	---	---	---	---
3215	20.79	21.94	20.28	21.94	-0.51	0.00
3160	20.42	21.55	20.40	21.38	-0.02	-0.17
3125	20.06	20.90	19.86	20.74	-0.20	-0.16
3065	19.42	20.22	19.44	20.33	+0.02	+0.11
Footbridge	---	---	---	---	---	---
3040	18.87	19.95	18.83	20.09	-0.04	+0.14
2990	18.82	20.00	18.77	20.10	-0.05	+0.10
2840	18.44	19.63	18.54	19.93	+0.10	+0.30
2790	18.35	19.49	18.18	19.31	-0.17	-0.18
Footbridge	---	---	---	---	---	---
2765	17.38	18.99	17.49	18.88	+0.11	-0.11
2715	17.51	19.03	17.52	19.07	+0.01	+0.04
2595	17.44	18.98	17.42	18.97	-0.02	-0.01
2540	17.26	18.84	17.23	18.83	-0.03	-0.01
Footbridge	---	---	---	---	---	---
2525	16.90	18.53	16.86	18.52	-0.04	-0.01
2475	16.64	17.25	16.58	17.24	-0.06	-0.01
2375	16.60	17.20	16.54	17.19	-0.06	-0.01
2225	16.58	15.05	16.51	15.06	-0.07	0.00
2080	16.58	14.41	16.51	14.41	-0.07	0.00
Myrtle Ave	---	---	---	---	---	---

At the Myrtle Avenue crossing, the Existing Conditions Model shows the roadway begins to overtop during the 2-year storm event. Although, Alternative 4 produces reduced water surface elevations during the 10-year and 100-year storm events, the Myrtle Avenue crossing is shown to continue to overtop during the 2-year storm event. Downstream of Myrtle Avenue, the Alternative 4 10-year WSELs are within 0.07-feet of existing and the 100-year WSELs are within 0.02-feet of existing.

Addition of an underground storage basin will have a limited impact to the existing 10-year and 100-year floodplains. The underground storage basin does not have the capacity to detain enough flow to make reductions to either floodplain. Residential properties currently experiencing flooding would continue to be impacted.

The construction cost of Alternative 4 is estimated to be \$1,010,000, including incidentals, contingencies, a minor item allowance and two years of inflation at 5% per year. Design, permitting and right-of-way fees are not included.

6.5 Alternative 5: Flood Storage Basin Winslow Dog Park

Alternative 5 examined the addition of an offline flood storage basin within Winslow Dog Park. Due to the limited impact of Alternative 4, Alternative 5 used an amplified storage capacity to reduce the amount of flow traveling further downstream. This area is currently undeveloped, mainly consisting of forest. The basin has a designed storage capacity of approximately 365,000 cubic feet. The basin allows for 11.5-feet of water to infiltrate into the ground before reaching the outlet (although, conservatively, no credit for this has been included in the stormwater calculations). Once the basin reaches its capacity, overtopping flow will be directed back into Deadman Brook through a graded swale. The location of the storage basin is shown on Figure 15.

SCS Flows (cfs) Deadman Brook at Myrtle Avenue				
Storm Event	Existing	Alternative 5	Alternative 5 vs. Existing	
2-Year	284.4	268.0	-16.4	-5.74%
10-Year	614.9	564.0	-50.9	-8.27%
50-Year	1,042.3	945.6	-96.7	-9.28%
100-Year	1,254.3	1,136.0	-118.3	-9.43%
500-Year	1,834.8	1,735.7	-99.1	-5.40%

The addition of an offline flood storage basin saw a reduction in peak flows for all studied storm events. At Myrtle Avenue, the largest percent reduction of flow is seen during the 100-year storm event. The flow rate for the 100-year storm event is 1,136 cfs, 9.4% less than existing model.

SCS Flows (cfs) Deadman Brook at the Saugatuck River				
Storm Event	Existing	Alternative 5	Alternative 5 vs. Existing	
2-Year	315.0	298.3	-16.7	-5.32%
10-Year	658.7	611.7	-47.0	-7.13%
50-Year	1,110.4	1,009.9	-100.5	-9.05%
100-Year	1,338.3	1,219.2	-119.1	-8.90%
500-Year	1,970.9	1,851.6	-119.3	-6.05%

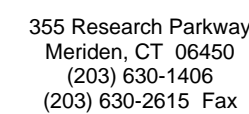
Similar reductions are seen at the Deadman Brook confluence with the Saugatuck River. At the confluence with the Saugatuck River, the largest percent reduction of flow is seen during the 50-year storm event. The flow rate for the 50-year storm event is 1,009.9 cfs, 9.1% less than existing model.



GRAPHIC SCALE

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SCALE IN FEET



DEADMAN BROOK WATERSHED STUDY
WESTPORT, CONNECTICUT

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Designed N.J.P.
 Drawn N.J.P.
 Checked D.M.C.
 Approved
 Scale 1"=60'
 Project No. 16C6016
 Date MARCH 2018
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 Title
 ALTERNATIVE 5
 LAYOUT PLAN

Sheet No. **FIGURE-15**

To evaluate the benefits of the flood storage basin, the 10-year and 100-year water surface elevations for the Alternative 5 model were compared to the Existing Conditions elevations. From the 22 Evergreen Avenue driveway bridge to the storage basin's inlet (Section 3125), the Alternative 5 10-year WSELs are within 0.40-feet of existing and the 100-year WSELs are within 0.30-feet of existing.

Water Surface Elevations (feet)						
Deadman Brook						
Section	Existing		Alternative 5		Alternative 5 vs. Existing	
	10-Year	100-Year	10-Year	100-Year	10-Year	100-Year
22 Evergreen Bridge	---	---	---	---	---	---
3215	20.79	21.94	21.03	21.67	+0.24	-0.27
3160	20.42	21.55	20.46	21.53	+0.04	-0.02
3125	20.06	20.90	19.66	20.65	-0.40	-0.25
3065	19.42	20.22	19.36	20.52	-0.06	+0.30
Footbridge	---	---	---	---	---	---
3040	18.87	19.95	18.67	19.49	-0.20	-0.46
2990	18.82	20.00	18.47	19.48	-0.35	-0.52
2840	18.44	19.63	17.99	19.04	-0.45	-0.59
2790	18.35	19.49	17.91	18.97	-0.44	-0.52
Footbridge	---	---	---	---	---	---
2765	17.38	18.99	17.33	18.84	-0.05	-0.15
2715	17.51	19.03	17.37	18.84	-0.14	-0.19
2595	17.44	18.98	17.27	18.74	-0.17	-0.24
2540	17.26	18.84	17.07	18.59	-0.19	-0.25
Footbridge	---	---	---	---	---	---
2525	16.90	18.53	16.57	18.29	-0.33	-0.24
2475	16.64	17.25	16.22	17.07	-0.42	-0.18
2375	16.60	17.20	15.96	16.12	-0.56	-0.14
2225	16.58	15.05	16.02	14.94	-0.56	-0.11
2080	16.58	14.41	16.02	14.29	-0.56	-0.12
Myrtle Ave	---	---	---	---	---	---

Downstream of the storage basin's inlet, the Alternative 5 model has reduced 10-year and 100-year water surface elevations. Between storage basin's inlet to Myrtle Avenue, the Alternative 5 10-year WSELs range from 0.05-feet to 0.56-feet lower than existing and the 100-year WSELs range from 0.08-feet to 0.59-feet lower than existing.

From the 22 Evergreen Avenue driveway bridge to Myrtle Avenue, the area surrounding Deadman Brook consists of ½ acre residences. Once the brook begins to overtop, five properties within this area are impacted. In the Existing Conditions Model, the brook begins to overtop during the 2-year storm event. In the Alternative 5 model, the brook continues to overtop during the 2-year storm event. During larger storm events, residences currently experiencing flooding would continue to be impacted in the Alternative 5 model.

At the Myrtle Avenue crossing, the Existing Conditions Model shows the roadway begins to overtop during the 2-year storm event. Although Alternative 5 produces reduced water surface elevations during the 10-year and 100-year storm events, the Myrtle Avenue crossing is shown to continue to overtop during the 2-year storm event.

The construction cost of Alternative 5 is estimated to be \$2,920,000, including incidentals, contingencies, a minor item allowance and two years of inflation at 5% per year. Design, permitting and right-of-way fees are not included.

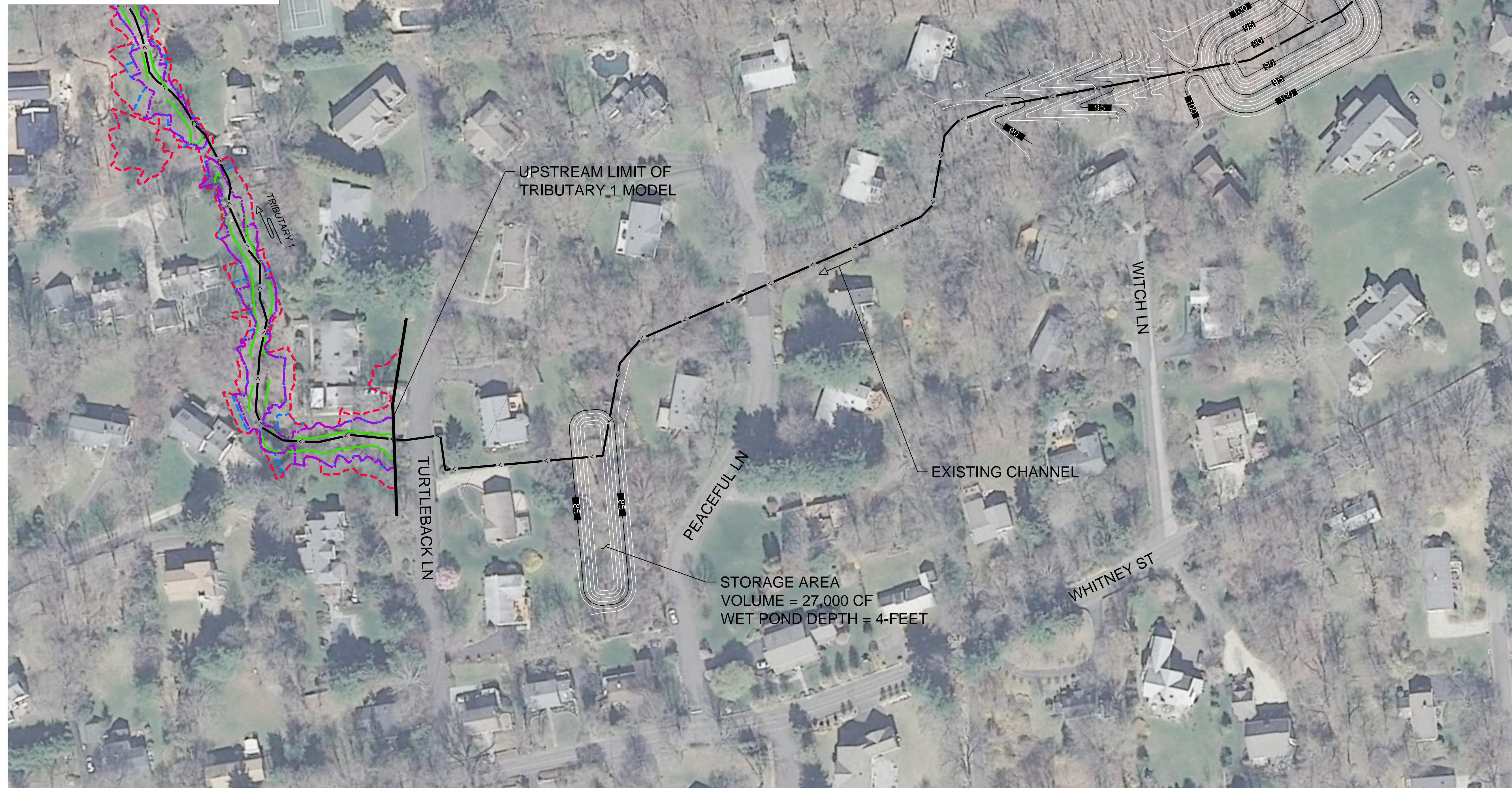
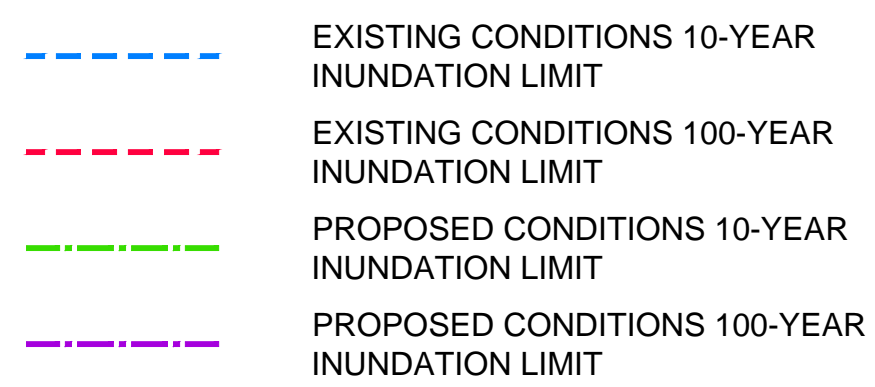
6.6 Alternative 6: Storage Areas within Tributary 1

Alternative 6 examined the addition of two inline flood storage basins within Tributary 1. The first of the basins is within an undeveloped, forested area between Fernwood Road and Witch Lane. The second basin is located in a swampy area between Turtleback Lane and Peaceful Lane. The first basin has a designed storage capacity of approximately 134,000 cubic feet and the second has a designed storage capacity of approximately 27,000 cubic feet. The first basin allows for 9-feet of water to infiltrate into the ground before reaching the outlet and the second allows for 4-feet of water to infiltrate into the ground before reaching the outlet. Conservatively, no credit for this has been included in the stormwater calculations. Overtopping flow from the first basin will travel west to the second basin. From the second basin, overtopping flow will travel west through Tributary 1, ultimately outletting into Deadman Brook. The Tributary 1 storage areas are shown on Figure 16.

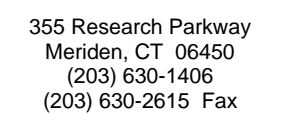
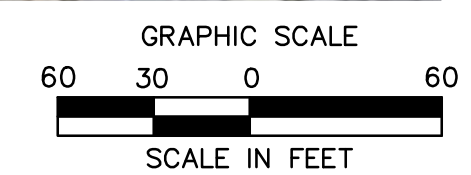
SCS Flows (cfs) Tributary 1 at Deadman Brook Confluence				
Storm Event	Existing	Alternative 6	Alternative 6 vs. Existing	
2-Year	35.5	7.0	-28.5	-80.2%
10-Year	91.2	25.3	-65.9	-72.3%
50-Year	161.3	69.2	-92.1	-57.1%
100-Year	193.0	91.2	-101.8	-52.8%
500-Year	279.1	178.5	-100.6	-36.1%

For Tributary 1, the addition of two inline flood storage basins reduced the flow rates for all studied storm events. The largest reduction of flow is seen during the 100-year storm event. The flow rate for the 100-year storm event is 91.2 cfs, 52.8% less than existing model.

SCS Flows (cfs) Deadman Brook at Tributary 1 Confluence				
Storm Event	Existing	Alternative 6	Alternative 6 vs. Existing	
2-Year	282.6	267.7	-14.9	-5.3%
10-Year	602.1	565.2	-36.9	-6.1%
50-Year	1,019.0	987.0	-32.0	-3.1%
100-Year	1,227.3	1,199.9	-27.4	-2.2%
500-Year	1,774.6	1,783.8	+9.2	+0.5%



ALTERNATIVE 6



DEADMAN BROOK WATERSHED STUDY

WESTPORT, CONNECTICUT

Desec.

REVISONS	No.	Date
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Designed		N.J.P.
Drawn		N.J.P.
Checked		D.M.C.
Approved		
Scale		1"=60'
Project No.		16C6016
Date		MARCH 1918
CAD File:		
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ALTERNATIVE 6 LAYOUT PLAN		

Sheet No.
FIGURE-16

For Deadman Brook, at the confluence with Tributary 1, all studied storm events, except for the 500-year storm event saw a reduction of flow. The 500-year storm event experiences an increased peak flow because the Alternative 6 proposed improvements delays the 500-year peak flow from traveling through Tributary 1. Once the peak flow reaches Deadman Brook, it converges with a larger amount of flow that has traveled downstream than it previously would have without the initial delay.

At the Deadman Brook confluence with Tributary 1 the largest reduction of flow is seen during the 10-year storm event. Compared to the existing flows, Alternative 6 has a flow 6.1% less than existing.

The Alternative 6 10-year and 100-year water surface elevations for Tributary 1 were compared to the Existing Conditions elevations. From Turtleback Lane to Compo Road North, the Alternative 6 10-year WSELs range from 0.58-feet to 1.97-feet lower than existing and the 100-year WSELs range from 0.29-feet to 1.37-feet lower than existing.

Water Surface Elevations (feet)						
Tributary 1						
Section	Existing		Alternative 6		Alternative 6 vs. Existing	
	10-Year	100-Year	10-Year	100-Year	10-Year	100-Year
Turtleback Ln	---	---	---	---	---	---
1920	86.88	87.49	86.03	86.69	-0.85	-0.80
1870	86.73	87.29	85.89	86.55	-0.84	-0.74
1715	85.67	86.16	84.86	85.51	-0.81	-0.65
1530	83.15	83.51	82.43	83.00	-0.72	-0.51
1475	83.14	83.54	82.39	82.98	-0.75	-0.56
Driveway	---	---	---	---	---	---
1430	81.16	81.94	80.15	80.92	-1.01	-1.02
1360	78.56	79.05	77.79	78.40	-0.77	-0.65
1320	77.18	77.96	75.21	76.59	-1.97	-1.37
Footbridge	---	---	---	---	---	---
1300	75.86	76.94	75.04	75.68	-0.82	-1.26
1250	75.27	75.87	74.35	75.08	-0.92	-0.79
1110	71.60	72.12	70.99	71.47	-0.61	-0.65
1065	70.24	70.40	69.62	70.11	-0.62	-0.29
Driveway	---	---	---	---	---	---
1025	67.33	68.39	66.29	67.07	-1.04	-1.32
Footbridge	---	---	---	---	---	---
955	65.52	65.87	64.90	65.38	-0.62	-0.49
910	64.41	64.92	63.83	64.26	-0.58	-0.66
830	64.50	64.83	63.87	64.37	-0.63	-0.46
4 Compo Rd N Driveway Bridge	---	---	---	---	---	---

Within this section of the tributary, the area surrounding the channel largely consists of ½ acre residences. In the Existing Conditions Model, the tributary is shown overtopping the channel at

multiple sections beginning at the 2-year storm event. In the Alternative 6 model, the 2-year storm is shown to be completely contained within the tributary. The 10-year storm is contained within the tributary for most of the sections. Between Turtleback Lane and Compo Road North, Alternative 6 shows significant reductions in the 10-year and 100-year floodplains. In comparison of the inundation widths, the Alternative 6 10-year floodplain is reduced 45.1% and the 100-year floodplain is reduced 30.5% in this section.

In the Existing Conditions Model, the Compo Road North crossing begins to overtop during the 2-year storm event. Due to the reduced flows in the Alternative 6 model, the crossing does not begin to overtop until the 10-year storm event.

Downstream of the Compo Road North crossing, the Alternative 6 model continues to show lower 10-year and 100-year water surface elevations. From Compo Road North to the Deadman Brook confluence, the Alternative 6 10-year WSELs range from 0.37-feet to 1.13-feet lower than existing and the 100-year WSELs range 0.46-feet to 1.51-feet from to lower than existing.

Alternative 6's impact to Deadman Brook was also examined. Downstream of the Tributary 1 confluence, Alternative 6 continues to see reduced 10-year and 100-year water surface elevations. From the Tributary 1 confluence to the 22 Evergreen Avenue driveway bridge, the Alternative 6 10-year WSELs range from 0.07-feet to 0.11-feet lower than existing and the 100-year WSELs range from 0.04-feet to 0.05-feet lower than existing.

Along Tributary 1, from Turtleback Lane to the confluence with Deadman Brook, the Existing Conditions 100-year floodplain shows six residences impacted due to flooding from the tributary. Due to the reduced flows caused by the proposed flood storage basins, the Alternative 6 100-year floodplain reduces the number of residences impacted to only one property; 50 Compo Road North.

Further downstream, the Alternative 6 model continues to see reduced water surface elevations. From the 22 Evergreen Avenue driveway to Myrtle Avenue, the Alternative 6 10-year WSELs range from 0.03-feet to 0.36-feet lower than existing and the 100-year WSELs are within 0.14-feet of existing.

Although Tributary 1 saw large reductions in the 10-year and 100-year floodplains, the impacted residences along Deadman Brook will continue to be impacted during larger storm events. Between the Tributary 1 confluence to Myrtle Avenue, the brook continues to overtop during the 2-year storm event. Alternative 6 reduces the 10-year floodplain by 0.4% and the 100-year floodplain by 0.6% in this section.

At Myrtle Avenue, the Existing Conditions Model shows the roadway beginning to overtop during the 2-year storm event. Although Alternative 6 produces reduced water surface elevations during the 10-year and 100-year storm events, the Myrtle Avenue crossing is shown to continue to overtop during the 2-year storm event. Downstream of Myrtle Avenue, the Alternative 6 10-year WSELs are within 0.37-feet of existing and the 100-year WSELs are within 0.09-feet of existing.

Water Surface Elevations (feet) Deadman Brook						
Section	Existing		Alternative 6		Alternative 6 vs. Existing	
	10-Year	100-Year	10-Year	100-Year	10-Year	100-Year
Evergreen Ave	---	---	---	---	---	---
4030	28.14	30.79	28.03	30.73	-0.11	-0.06
3870	28.09	30.76	27.98	30.71	-0.11	-0.05
3815	28.02	30.72	27.91	30.67	-0.11	-0.05
Footbridge	---	---	---	---	---	---
3790	26.80	30.56	26.69	30.51	-0.11	-0.05
3765	26.48	30.57	26.41	30.52	-0.07	-0.05
Footbridge	---	---	---	---	---	---
3740	25.87	30.54	25.76	30.49	-0.11	-0.05
3685	25.78	30.47	25.69	30.43	-0.09	-0.04
3465	25.71	30.48	25.62	30.44	-0.09	-0.04
3305	25.72	30.49	25.63	30.44	-0.09	-0.05
3255	24.74	30.46	24.65	30.41	-0.09	-0.05
22 Evergreen Bridge	---	---	---	---	---	---

Although the Alternative 6 proposed improvements show a reduction to the number of residences impacted by flooding along Tributary 1, the flow changes are not significant enough at Deadman Brook to remove any residences currently impacted by flooding along the brook.

The construction cost of Alternative 6 is estimated to be \$240,000, including incidentals, contingencies, a minor item allowance and two years of inflation at 5% per year. Design, permitting and right-of-way fees are not included.

6.7 Alternative 7: Storage Area downstream of Roseville Road

Alternative 7 examined the addition of an inline flood storage basin within Tributary 3, between Roseville Road and the confluence with Deadman Brook. This area is currently undeveloped, consisting mainly of a large swampy area and performs as a small storage area. The proposed flood storage basin has a designed storage capacity of approximately 137,000 cubic feet. The basin allows for 2-feet of water to infiltrate into the ground before reaching the outlet (although, conservatively, no credit for this has been included in the stormwater calculations). Flow would outlet the basin through an outlet control structure. From the outlet control structure, flow will travel downstream, just upstream of Deadman Brook's confluence. The Alternative 7 storage area is shown on Figure 17.

In addition to the storage basin, this alternative replaces the existing Tributary 3 crossing below Roseville Road, which consists of a 48" RCP, with a 3-foot high by 6-foot wide three-sided concrete box culvert.

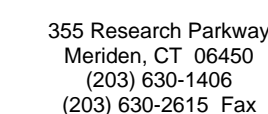
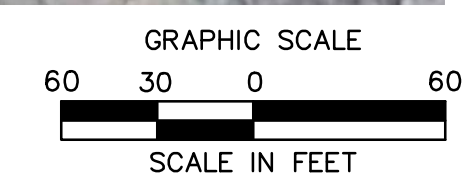
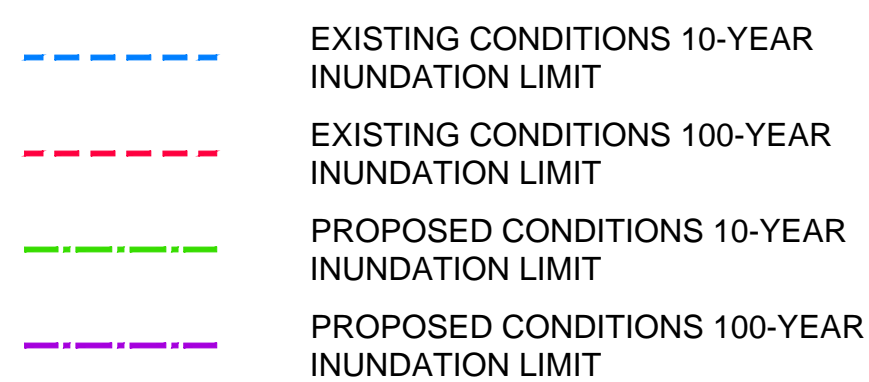
SCS Flows (cfs) Tributary 3 at Deadman Brook Confluence				
Storm Event	Existing	Alternative 7	Alternative 7 vs. Existing	
2-Year	54.1	45.1	-9.0	-16.6%
10-Year	107.8	82.2	-25.6	-23.7%
50-Year	170.1	111.8	-58.3	-34.3%
100-Year	197.2	119.5	-77.7	-39.4%
500-Year	266.4	142.4	-124.0	-46.5%

For Tributary 3, the addition of an inline flood storage basin reduces flow rates for all studied storm events. The largest reduction of flow is seen during the 500-year storm event. The flow rate for the 500-year storm event is 142.4 cfs, 46.5% less than the Existing Conditions Model.

SCS Flows (cfs) Deadman Brook at Tributary 3 Confluence				
Storm Event	Existing	Alternative 7	Alternative 7 vs. Existing	
2-Year	209.9	210.6	+0.7	+0.4%
10-Year	432.7	427.2	-5.5	-1.3%
50-Year	741.9	700.5	-41.4	-5.6%
100-Year	893.6	819.2	-74.6	-8.3%
500-Year	1,260.4	1,112.0	-148.4	-11.8%

For Deadman Brook, at the confluence with Tributary 3, the 2-year storm event saw a minor increase in peak flow due to the larger amount of flow conveyed through the proposed Roseville Road tributary cross. During the 2-year storm event, Alternative 7 has a peak flow 0.7 cfs greater than the Existing Conditions Model. All other studied storm events saw a reduction in peak flow, with the largest change in flow experienced during the 500-year storm event.

Water Surface Elevations (feet) Tributary 3						
Section	Existing		Alternative 7		Alternative 7 vs. Existing	
	10-Year	100-Year	10-Year	100-Year	10-Year	100-Year
25 Joann Circle Bridge	---	---	---	---	---	---
640	117.64	123.47	117.47	117.74	-0.17	-5.73
590	117.14	123.47	117.00	117.21	-0.14	-6.26
550	116.5	123.47	114.48	115.84	-2.02	-7.63
Roseville Rd	---	---	---	---	---	---
430	114.18	114.90	111.45	111.70	-2.73	-3.20
380	113.42	113.96	110.50	110.64	-2.92	-3.32
195	113.28	113.74	107.70	109.32	-5.58	-4.42
145	113.26	113.71	107.69	109.31	-5.57	-4.40
Stone Dam	---	---	---	---	---	---



DEADMAN BROOK WATERSHED STUDY
WESTPORT, CONNECTICUT

REVISIONS		Desc.
No.	Date	
Designed		N.J.P.
Drawn		N.J.P.
Checked		D.M.C.
Approved		
Scale	1"=60'	
Project No.	16C6016	
Date	MARCH 2018	
CAD File:		
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Title		
ALTERNATIVE 7		
LAYOUT PLAN		

Sheet No.
FIGURE-17

Upstream of Roseville Road, Tributary 3 saw a significant reduction in the 10-year and 100-year floodplains. Between the furthest upstream Joann Circle Drive crossing and Roseville Road, the Alternative 7 10-year WSELs range from 0.14-feet to 2.02-feet lower than existing and the 100-year WSELs range from 1.68-feet to 7.63-feet lower than existing. The reduction in water surface elevations in this section of Tributary 3 will have a beneficial impact for several of the developed residences along the tributary. Seven developed residences that are impacted by the existing 100-year floodplain will either have the influence significantly reduced or be taken out of the floodplain's impact. In comparison of inundation limits, between the upstream Joann Circle Drive crossing and Roseville Road, the Alternative 7 model reduces the 10-year floodplain by 1.2% and the 100-year floodplain by 51.0%.

At the Roseville Road crossing of Tributary 3, the Existing Conditions Model shows the roadway begins to experience pressure flow between the 2-year and 10-year storm events and overtop between the 100-year and 500-year storm events. In the Alternative 7 model, the Roseville Road culvert is replaced with a 3-foot high by 6-foot wide three-sided concrete box culvert. The replacement of the Roseville Road crossing eliminates roadway overtopping during the 500-year storm event.

Downstream of the Roseville Road crossing, Tributary 3 enters the inline basin. Due to the grading, Alternative 7 saw larger reductions in 10-year and 100-year elevations water surface elevations. Between Roseville Road and the inline basin's outlet, the Alternative 7 10-year WSELs range from 2.73-feet to 5.58-feet lower than existing and the 100-year WSELs range from 3.20-feet to 4.42-feet lower than existing.

As with Tributary 3, the Deadman Brook Alternative 7 10-year and 100-year water surface elevations were compared to the Existing Conditions elevations. From the Tributary 3 confluence to Deerwood Lane, the 10-year WSELs range from 0.01-feet to 0.06-feet lower than existing and the 100-year WSELs range from 0.05-feet to 0.21-feet lower than existing.

Along Tributary 3, the Existing Conditions 100-year floodplain shows sixteen residential properties impacted by flooding from the tributary. Of the sixteen residential properties impacted by the floodplain, six homes are directly impacted. Due to the reduced flows caused by the proposed improvements, the Alternative 7 100-year floodplain reduces the number of residential properties impacted to thirteen. The decreased flow rates also reduced the amount of homes directly impacted by the 100-year floodplain. Of the thirteen residential properties impacted by the floodplain, only two homes are directly impacted.

In the Existing Conditions Model, Deerwood Lane is shown to overtop between the 2-year and 10-year storm events. Due to the reduced flows in Alternative 7, Deerwood Lane would not overtop until the 50-year storm event. Downstream of Deerwood Lane, the Alternative 7 100-year water surface elevations begin to converge with existing. From Deerwood Lane, the 100-year WSELs are within 0.41-feet of existing.

Water Surface Elevations (feet) Deadman Brook						
Section	Existing		Alternative 7		Alternative 7 vs. Existing	
	10-Year	100-Year	10-Year	100-Year	10-Year	100-Year
Roseville Rd	---	---	---	---	---	---
8410	124.51	125.74	124.50	125.60	-0.01	-0.14
8260	100.05	101.94	100.04	101.73	-0.01	-0.21
8210	98.75	100.55	98.74	100.38	-0.01	-0.17
8130	97.06	98.60	97.05	98.42	-0.01	-0.18
8080	96.80	97.81	96.79	97.71	-0.01	-0.10
Footbridge	---	---	---	---	---	---
8050	95.59	97.39	95.58	97.21	-0.01	-0.18
8030	95.46	96.66	95.46	96.52	0.00	-0.14
8010	95.54	96.17	95.53	96.04	-0.01	-0.13
Footbridge	---	---	---	---	---	---
7990	94.85	95.57	94.84	95.50	-0.01	-0.07
7980	94.77	95.57	94.75	95.47	-0.02	-0.10
Driveway	---	---	---	---	---	---
7940	92.56	92.98	92.56	92.93	0.00	-0.05
7900	90.65	91.93	90.64	91.83	-0.01	-0.10
7790	88.28	89.47	88.27	89.29	-0.01	-0.18
7610	88.20	89.22	88.14	89.13	-0.06	-0.09
7505	88.12	89.06	88.07	88.99	-0.05	-0.07
Deerwood Ln	---	---	---	---	---	---

From the Tributary 3 confluence to Compo Road North, the surrounding area for Deadman Brook consists of a mixture of 1 acre residences and forest. Several developed residences are impacted by the existing 10-year and 100-year floodplains in this portion of the brook. In this section of the brook, Alternative 7 reduces the 10-year floodplain by 1.2% and the 100-year floodplain by 2.3%. Although there are slight reductions in WSELs for these storm events, the reductions are not significant enough to remove these properties from the existing floodplain.

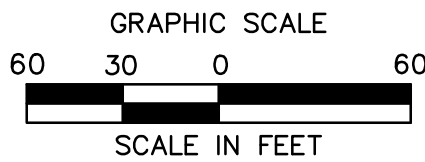
The construction cost of Alternative 7 is estimated to be \$760,000, including incidentals, contingencies, a minor item allowance and two years of inflation at 5% per year. Design, permitting and right-of-way fees are not included.

6.8 Alternative 8: Storage Area near Leslie Lane

Alternative 8 examined the addition of an offline flood storage basin downstream of Leslie Lane. This area is currently undeveloped, mainly consisting of forest. The offline flood storage basin has a designed storage capacity of approximately 56,000 cubic feet. The basin allows for 6-feet of water to infiltrate into the ground before reaching the outlet (although, conservatively, no credit for this has been included in the stormwater calculations). Once the basin reaches its capacity, overtopping flow will be directed back into Deadman Brook through a graded swale. The Alternative 8 storage area is shown on Figure 18.



ALTERNATIVE 8



DEADMAN BROOK WATERSHED STUDY
WESTPORT, CONNECTICUT

REVISIONS		Desc.
No.	Date	
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Designed		N.J.P.
Drawn		N.J.P.
Checked		D.M.C.
Approved		
Scale		1"=60'
Project No.		16C6016
Date		MARCH 2018
CAD File: BD16C6016-01		
Title ALTERNATIVE 8 LAYOUT PLAN		

SCS Flows (cfs)				
Deadman Brook at Tributary 4 Confluence				
Storm Event	Existing	Alternative 8	Alternative 8 vs. Existing	
2-Year	139.3	139.3	0.0	0.0%
10-Year	283.5	272.9	-10.7	-3.8%
50-Year	494.0	455.6	-38.4	-7.8%
100-Year	587.0	537.0	-50.0	-8.5%
500-Year	799.9	783.4	-16.5	-2.1%

At the confluence with Tributary 4, all the studied storm events either matched or experienced reduction of flows due to the offline storage basin. The largest reduction of flow is seen during the 100-year storm event. The flow rate for the 100-year storm event is 537.0 cfs, 8.5% less than existing.

Water Surface Elevations (feet)						
Deadman Brook						
Section	Existing		Alternative 8		Alternative 8 vs. Existing	
	10-Year	100-Year	10-Year	100-Year	10-Year	100-Year
Leslie Ln	---	---	---	---	---	---
9910	141.88	143.00	141.88	143.00	0.00	0.00
9850	140.84	141.97	140.79	141.82	-0.05	-0.15
9750	---	---	140.59	141.43	---	---
9630	140.26	141.15	140.28	141.05	0.02	-0.10
9430	139.64	140.81	139.59	140.69	-0.05	-0.12
9230	139.57	140.73	139.53	140.62	-0.04	-0.11
9180	139.50	140.71	139.46	140.60	-0.04	-0.11
Footbridge	---	---	---	---	---	---
9155	139.46	140.67	139.42	140.56	-0.04	-0.11
9110	138.83	139.72	138.80	139.63	-0.03	-0.09
9060	138.80	139.83	138.76	139.74	-0.04	-0.09
33/45 Lehn Farms Driveway Bridge	---	---	---	---	---	---

The Alternative 8 10-year and 100-year WSELs were compared to the elevations computed by the Existing Conditions Model. Upstream of the storage basin's inlet, Section 9850, the Alternative 8 model experienced minimal reduction to the 10-year and 100-year water surface elevations. The 10-year WSELs are within 0.05-feet of existing and the 100-year WSELs are within 0.15-feet of existing.

Downstream of the basin's inlet, the Alternative 8 model continued experiencing minimal reduction to the 10-year and 100-year water surface elevations. Between the storage basin's inlet to Roseville Road, the Alternative 8 10-year WSELs are within 0.05-feet of existing and the 100-year WSELs range from 0.05-feet to 0.15-feet lower than existing.

At Roseville Road, the Existing Conditions Model shows the roadway begins to overtop during the 2-year storm event. Although Alternative 8 shows a reduction in flows in this portion of the brook, Roseville Road is shown to continue to overtop beginning at the 2-year storm event.

Downstream of Leslie Lane, the surrounding area for Deadman Brook largely consists of forested area. As the brook flows closer to Roseville Road, the brook is surrounded by 1 acre residences. In this area, these residences are encompassed by the existing 10-year and 100-year floodplains. From Leslie Lane to Roseville Road, Alternative 8 reduces the 10-year floodplain by 2.3% and the 100-year floodplain by 2.8%. Although the storage basin decreases flows, the reductions to the Alternative 8 10-year and 100-year floodplains are minimal. The residential developments impacted by the existing conditions would continue to be impacted.

The construction cost of Alternative 8 is estimated to be \$110,000, including incidentals, contingencies, a minor item allowance and two years of inflation at 5% per year. Design, permitting and right-of-way fees are not included.

6.9 Alternative 9: Storage Area adjacent to Silent Grove North

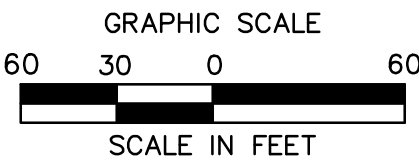
Alternative 9 examined modifying the storage capacity of the pond adjacent to the Silent Grove North crossing. Currently, the existing pond has a storage capacity of approximately 49,500 cubic feet. Once the pond reaches capacity, overtopping flow from the pond travels south within Tributary 5 and outlets into Deadman Brook. The pond improvements in the Alternative 9 model has a designed storage capacity of approximately 400,000 cubic feet. The existing pond was modified, allowing for 8-feet of water to infiltrate into the ground before reaching the outlet (although, conservatively, no credit for this has been included in the stormwater calculations). The Alternative 9 storage area is shown on Figure 19.

SCS Flows (cfs) Tributary 5				
Storm Event	Existing	Alternative 9	Alternative 9 vs. Existing	
2-Year	2.5	0.0	-2.5	-100%
10-Year	18.7	0.0	-18.7	-100%
50-Year	41.3	4.5	-36.9	-89.2%
100-Year	50.6	7.7	-42.9	-84.8%
500-Year	74.6	35.8	-38.8	-52.0%

For Tributary 5, the additional storage capacity reduces the peak flow rates for all studied storm events. The largest percentage reduction of flow is seen during the 2-year and 10-year storm events. For both storm events, the proposed modified basin is shown to contain the each flow.



ALTERNATIVE 9



DEADMAN BROOK WATERSHED STUDY
WESTPORT, CONNECTICUT

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No.	Date	Desc.

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ALTERNATIVE 9
LAYOUT PLAN

Sheet No.
FIGURE-19

SCS Flows (cfs) Deadman Brook at Tributary 5 Confluence				
Storm Event	Existing	Alternative 9	Alternative 9 vs. Existing	
2-Year	53.2	53.2	0.0	0.0%
10-Year	138.4	123.8	-14.6	-10.6%
50-Year	227.7	197.3	-30.4	-13.4%
100-Year	261.9	236.5	-25.4	-9.7%
500-Year	396.1	396.3	+0.2	+0.1%

For Deadman Brook at the confluence with Tributary 5, the 500-year storm event saw an insignificant increase in peak flow. The 500-year storm event experiences an increased peak flow because the Alternative 9 proposed improvements delays the 500-year peak flow from traveling through Tributary 5. Once the peak flow reaches Deadman Brook, it converges with a larger amount of flow that has traveled downstream than it previously would have without the initial delay.

For all other studied storm events, Alternative 9 either matched or reduced the peak flow. The largest percentage change in flow is experienced during the 50-year storm event. The flow rate for the 50-year storm event is 197.3 cfs, a 13.4% less than existing.

Although the modified pond used in Alternative 9 saw a reduction of 14.6 cfs for the 10-year storm event and 25.4 cfs for the 100-year storm event, there was no change to the 10-year and 100-year water surface elevations. Between Section 15100 (the downstream bridge face for the Silent Grove North crossing) to Section 14325 (the upstream bridge face for the Cross Highway crossing), the Alternative 9 WSELs match the existing WSELs for the 10-year and 100-year storm events. The brook in this section continues to overtop during the 2-year storm event. Additionally, any residential developments currently impacted by the existing conditions would continue to be impacted.

Water Surface Elevations (feet) Deadman Brook						
Section	Existing		Alternative 9		Alternative 9 vs. Existing	
	10-Year	100-Year	10-Year	100-Year	10-Year	100-Year
Silent Grove N	---	---	---	---	---	---
15100	196.67	198.11	196.66	198.11	-0.01	0.00
15050	196.65	198.11	196.65	198.11	0.00	0.00
14770	196.61	198.10	196.61	198.10	0.00	0.00
14590	196.55	198.08	196.55	198.08	0.00	0.00
14390	196.52	198.05	196.52	198.05	0.00	0.00
14325	196.15	198.01	196.15	198.01	0.00	0.00
Cross Highway	---	---	---	---	---	---

The construction cost of Alternative 9 is estimated to be \$390,000, including incidentals, contingencies, a minor item allowance and two years of inflation at 5% per year. Design, permitting and right-of-way fees are not included.

6.10 Alternative 10: Storage Area between Highland Road and Merritt Parkway

Alternative 10 examined the addition of an offline flood storage basin between Highland Road and the Merritt Parkway. This area is currently undeveloped, mainly consisting of forest. The offline flood storage basin has a designed storage capacity of approximately 115,000 cubic feet. The basin allows for 11-feet of water to infiltrate into the ground before reaching the outlet (although, conservatively, no credit for this has been included in the stormwater calculations). Once the basin reaches its capacity, flow will be directed back into the main channel through two 24" RCP's.

In addition to the offline flood storage basin, the model replaces the existing Bayberry Lane crossing with three 36" RCP's. The Existing Conditions Model shows Bayberry Lane begin to overtop between the 2-year and 10-year storm events. The channel between Highland Road and Bayberry Lane was also regraded to increase the storage capacity of Deadman Brook. The channel bottom in this section was increased to a width of 9-feet. The west bank was graded at a 2H:1V slope and the east bank was graded at a 4H:1V slope. The storage area and channel grading of Alternative 10 are shown on Figure 20.

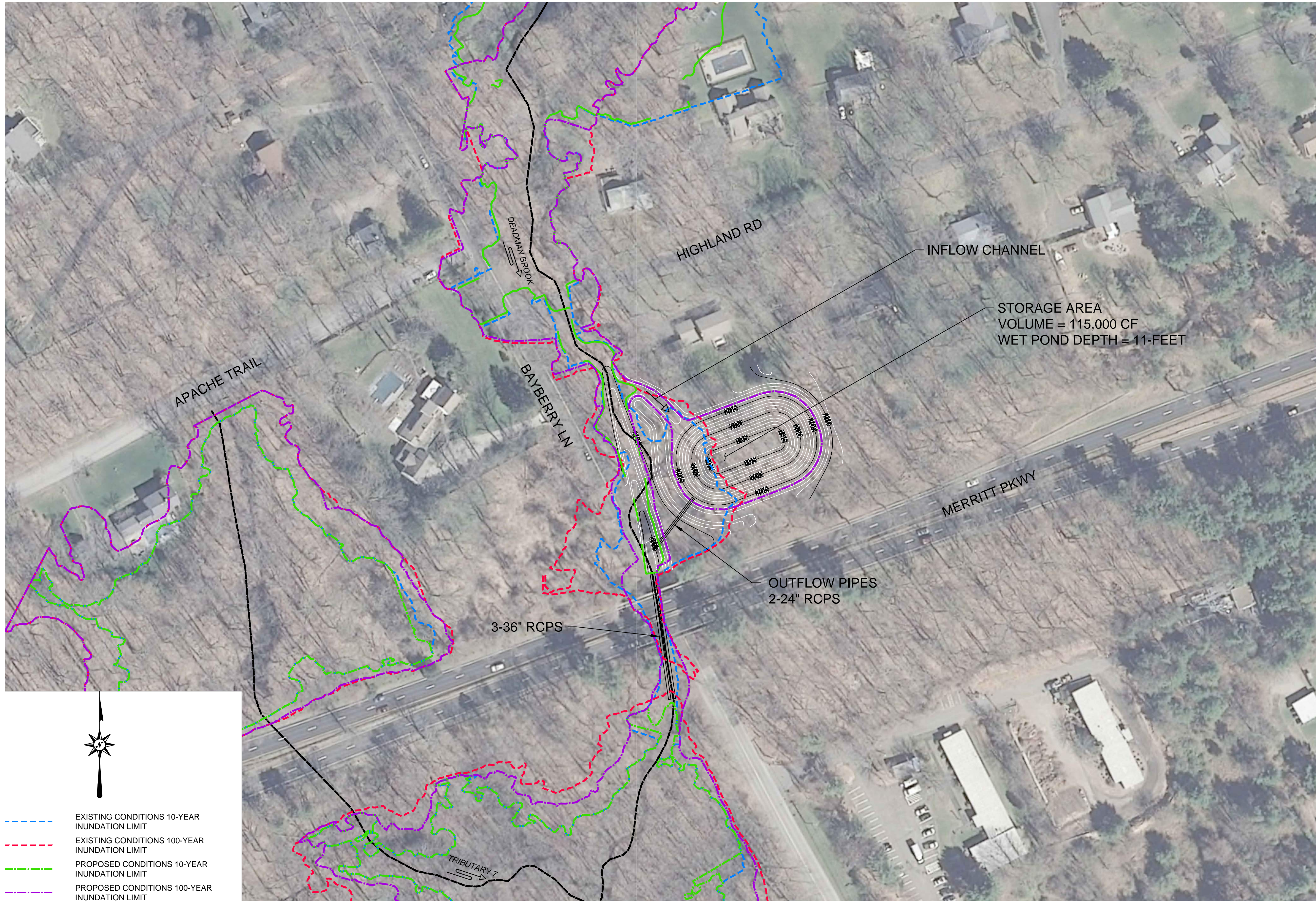
SCS Flows (cfs)				
Deadman Brook at Bayberry Lane				
Storm Event	Existing	Alternative 10	Alternative 10 vs. Existing	
2-Year	30.3	30.3	0.0	0.0%
10-Year	68.3	66.1	-2.2	-3.2%
50-Year	158.1	140.4	-17.7	-11.2%
100-Year	203.8	188.2	-15.6	-7.7%
500-Year	316.2	312.7	-3.5	-1.1%

At Bayberry Lane, all the studied storm events either matched or experienced a reduction in flows due to the offline flood storage basin. The largest percentage change in flow is experienced during the 50-year storm event. Alternative 10 has 50-year flow of 140.4 cfs, 11.2% less than existing.

SCS Flows (cfs)				
Deadman Brook at Tributary 7 Confluence				
Storm Event	Existing	Alternative 10	Alternative 10 vs. Existing	
2-Year	37.6	37.7	+0.1	+0.2%
10-Year	80.0	79.8	-0.2	-0.2%
50-Year	197.1	182.4	-14.7	-7.5%
100-Year	246.5	225.9	-20.6	-8.4%
500-Year	389.1	367.3	-21.8	-5.6%

Due to the replacement of the Bayberry Lane crossing, a greater amount of flow can pass through the crossing during the lower storm events. At the confluence with Tributary 7, the 2-year storm event has an increase of 0.1 cfs. All other studied storm events experienced reduced flows due to the offline flood storage basin. The largest percentage change in flow is experienced during the 100-year storm event. Alternative 10 has 100-year flow of 225.9 cfs, 8.4% less than existing.

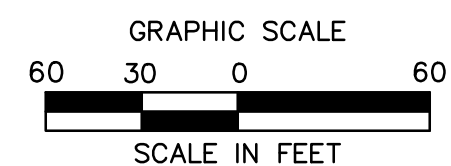
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- EXISTING CONDITIONS 10-YEAR INUNDATION LIMIT
- EXISTING CONDITIONS 100-YEAR INUNDATION LIMIT
- PROPOSED CONDITIONS 10-YEAR INUNDATION LIMIT
- PROPOSED CONDITIONS 100-YEAR INUNDATION LIMIT



ALTERNATIVE 10



DEADMAN BROOK WATERSHED STUDY
WESTPORT, CONNECTICUT

REVISIONS	Desc.
No.	Date

Designed	N.J.P.
Drawn	N.J.P.
Checked	D.M.C.
Approved	
Scale	1"=60'
Project No.	16C6016
Date	MARCH 2018

CAD File:
BD16C6016-01

Title
ALTERNATIVE 10
LAYOUT PLAN

Sheet No.

FIGURE-20

Xref (s): ; XREFC601631 ; Aerial With Watershed ; BD16C6016-DMB

The 10-year and 100-year water surface elevations were compared to the elevations computed in the Existing Conditions Model. Upstream of the storage basin's inlet, Alternative 10 saw a minor reduction in 10-year and 100-year water surface elevations. The Alternative 10 10-year WSELs are within 0.04-feet of existing and the 100-year WSELs are within 0.12-feet of existing.

Water Surface Elevations (feet) Deadman Brook						
Section	Existing		Alternative 10		Alternative 10 vs. Existing	
	10-Year	100-Year	10-Year	100-Year	10-Year	100-Year
Highland Rd	---	---	---	---	---	---
18360	206.64	207.73	206.60	207.61	-0.04	-0.12
18300	205.94	206.72	205.91	206.63	-0.03	-0.09
18095	204.26	205.53	201.72	204.14	-2.54	-1.39
18050	204.26	205.54	201.72	204.13	-2.54	-1.41
Bayberry Ln	---	---	---	---	---	---
17835	201.22	202.39	201.17	202.22	-0.05	-0.17
17775	200.86	202.36	200.86	202.15	0.00	-0.21
17550	200.03	202.36	200.04	202.16	+0.01	-0.20
17395	199.75	202.33	199.76	202.11	+0.01	-0.22
17350	199.72	202.32	199.73	202.09	+0.01	-0.23
Vineyard Ln	---	---	---	---	---	---

Between Highland Road and Bayberry Lane, Alternative 10 proposes to realign Deadman Brook. The brook would be shifted further away from Bayberry Lane and increase its channel bottom to a 9-foot width. Additionally, the Bayberry Lane crossing would be replaced with three 36" RCPs. These improvements allow for greater capacity of the brook in this area. In the Existing Conditions Model, the brook is shown to overtop its banks and spill onto Bayberry Lane between the 2-year and 10-year storm events. In the Alternative 10 model, the improvements prevent the brook from overtopping Bayberry Lane until between the 10-year and 50-year storm events.

Between Highland Road and Bayberry Lane, the surrounding area consist of Bayberry Lane and a 1 acre residential property. The improvements for this alternative reduces the impacts of overtopping flow for all studied storm events. In comparison of inundation limits, in this section of Deadman Brook, Alternative 10 reduced the existing 10-year floodplain by 60.3% and the 100-year floodplain by 39.8%.

Downstream of Bayberry Lane, improvements from Alternative 10 were also observed. Between Bayberry Lane and the closest downstream Vineyard Lane crossing, the Alternative 10 10-year WSELs are within 0.05-feet of existing and the 100-year WSELs are between 0.17-feet and 0.23-feet of existing. From Bayberry Lane to Vineyard Lane, the Alternative 10 model reduces the existing 10-year floodplain by 0.1% and the 100-year floodplain by 1.1%.

This section of the brook is extremely flat, mainly consisting of forested area. As the brook continues to travel downstream, there is a residential development adjacent to the Vineyard Lane crossing that is significantly impacted by the 100-year floodplain. Although Alternative 10 shows

a 0.20-foot decrease in water surface elevation, the property will continue to be impacted during the 100-year storm event.

The Existing Conditions Model shows the Vineyard Lane crossing begins to overtop between the 50-year and 100-year storm events. In the Alternative 10 model, overtopping during the 100-year storm is eliminated, and only shown during the 500-year storm event.

The proposed improvements suggested in Alternative 10 would remove one residence from the 100-year floodplain; 25 Vineyard Lane. Additionally, the proposed improvements would reduce the impact during the 100-year storm event for two residences; 179 Bayberry Lane and 24 Vineyard Lane.

The construction cost of Alternative 10 is estimated to be \$390,000, including incidentals, contingencies, a minor item allowance and two years of inflation at 5% per year. Design, permitting and right-of-way fees are not included.

6.11 Alternative 11: Storage Area at Tupelo Road

Alternative 11 examined modifying the storage capacity of the pond that is bordered by Tupelo Road. Currently, the existing pond has a storage capacity of approximately 66,000 cubic feet. Once the pond reaches capacity, overtopping flow from the pond travels south within Tributary 5 and outlets into Deadman Brook. The revised pond used in the Alternative 11 model has a designed storage capacity of approximately 244,000 cubic feet. The existing pond was modified to allow for 8-feet of water to infiltrate into the ground before reaching the outlet (although, conservatively, no credit for this has been included in the stormwater calculations). The layout of the storage area is shown on Figure 21.

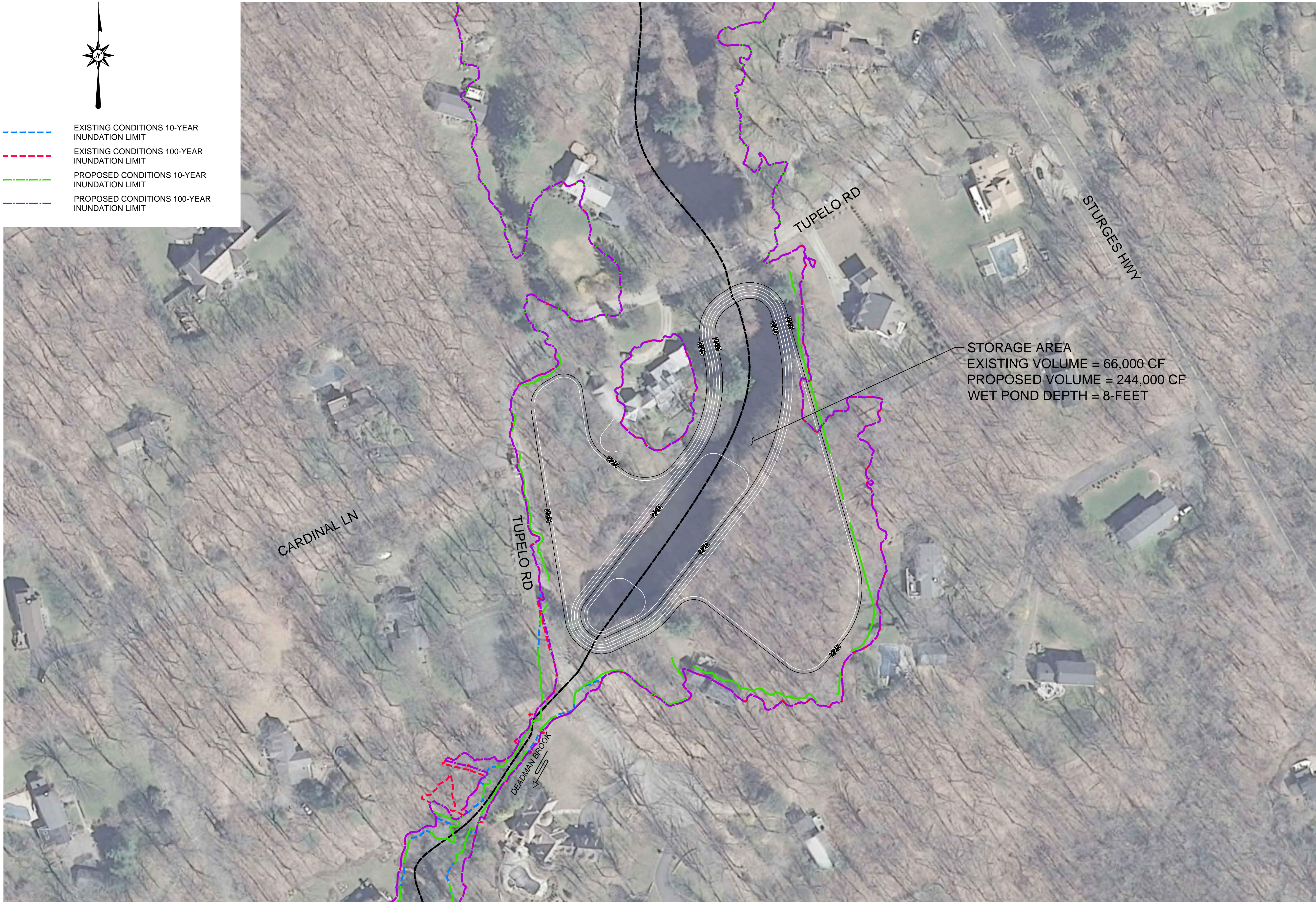
SCS Flows (cfs)				
Deadman Brook at Cardinal Road				
Storm Event	Existing	Alternative 11	Alternative 11 vs. Existing	
2-Year	16.8	15.5	-1.3	-8.2%
10-Year	49.1	29.6	-19.5	-39.8%
50-Year	118.7	96.3	-22.4	-18.8%
100-Year	153.7	127.2	-26.5	-17.2%
500-Year	245.3	226.2	-19.1	-7.8%

At Tupelo Road, all the studied storm events either matched or experienced a reduction in flows due to the offline flood storage basin. The largest change in flow is experienced during the 100-year storm event. Alternative 11 has 100-year flow of 127.2 cfs, 17.2% less than existing.

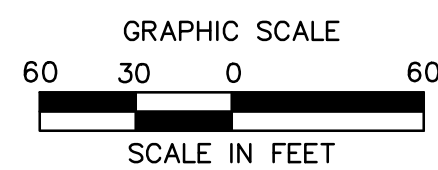
Upstream of the Tupelo Road #1 crossing, the Alternative 11 model saw a reduction in 10-year and 100-year water surface elevations. From Section 21955 to the Tupelo Road #1 crossing, the Alternative 11 10-year WSELs range from 0.14-feet to 0.15-feet lower than existing and the 100-year WSELs range from 0.12-feet to 0.15-feet lower than existing. In this portion of the brook, several properties are impacted by the existing 10-year and 100-year floodplains. Although there



- EXISTING CONDITIONS 10-YEAR INUNDATION LIMIT
- EXISTING CONDITIONS 100-YEAR INUNDATION LIMIT
- PROPOSED CONDITIONS 10-YEAR INUNDATION LIMIT
- PROPOSED CONDITIONS 100-YEAR INUNDATION LIMIT



ALTERNATIVE 11



DEADMAN BROOK WATERSHED STUDY
WESTPORT, CONNECTICUT

REVISIONS		Desc.
No.	Date	

Designed	N.J.P.
Drawn	N.J.P.
Checked	D.M.C.
Approved	
Scale	1"=60'
Project No.	16C6016
Date	MARCH 2018

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Title
ALTERNATIVE 11
LAYOUT PLAN

Sheet No.

FIGURE-21

are slight reductions in WSELs for these storm events, the decreases are not significant enough to remove these properties from the existing floodplain.

At the Tupelo Road #1 crossing, the Existing Conditions Model shows the crossing begin to overtop during the 2-year storm event. Alternative 11 continues to show overtopping at the crossing during the 2-year storm event.

Water Surface Elevations (feet)						
Deadman Brook						
Section	Existing		Alternative 11		Alternative 11 vs. Existing	
	10-Year	100-Year	10-Year	100-Year	10-Year	100-Year
245 Sturges Hwy Driveway Bridge	---	---	---	---	---	---
21955	226.17	226.66	226.02	226.51	-0.15	-0.15
21720	226.17	226.65	226.02	226.50	-0.15	-0.15
21340	226.16	226.63	226.01	226.49	-0.15	-0.14
21320	226.15	226.59	226.01	226.47	-0.14	-0.12
Tupelo Road #1	---	---	---	---	---	---
21260	226.06	226.51	225.99	226.43	-0.07	-0.08
21240	226.07	226.52	225.99	226.43	-0.08	-0.09
21070	226.06	226.50	225.99	226.42	-0.07	-0.08
20925	226.06	226.50	225.99	226.42	-0.07	-0.08
20755	226.06	226.50	225.99	226.42	-0.07	-0.08
20700	226.05	226.42	225.98	226.35	-0.07	-0.07
Tupelo Road #2	---	---	---	---	---	---
20625	222.65	224.19	222.44	224.01	-0.21	-0.18
20610	222.33	223.31	222.17	223.25	-0.16	-0.06
20435	219.84	220.53	219.75	220.41	-0.09	-0.12
20340	219.66	220.46	219.35	220.37	-0.31	-0.09
20320	219.65	220.45	219.33	220.35	-0.32	-0.10
Foothbridge	---	---	---	---	---	---
20295	219.55	220.22	219.18	220.14	-0.37	-0.08
20275	219.46	219.98	218.73	219.88	-0.73	-0.10
20120	219.47	220.01	218.48	219.91	-0.99	-0.10
20035	219.46	219.97	218.45	219.88	-1.01	-0.09
19980	219.46	219.96	218.44	219.83	-1.02	-0.13
Cardinal Ln	---	---	---	---	---	---

As mentioned prior, Alternative 11 would involve modifying the existing inline pond between the Tupelo Road crossings. Between these crossings, the Alternative 11 10-year WSELs are 0.07-foot and 0.08-foot lower than existing and the 100-year WSELs are between 0.07-foot and 0.09-foot lower than existing. In this portion of the brook, several properties are impacted by the existing 10-year and 100-year floodplains. Although there are slight reductions in WSELs for these storm events, the losses are not significant enough to remove these properties from the existing floodplain.

In the Existing Conditions Model, the Tupelo Road #2 crossing begins to overtop during the 2-year storm event. Although Alternative 11 has reduced water surface elevations, the Tupelo Road #2 crossing still is shown to overtop during the 2-year storm event.

Downstream of the Tupelo Road #2 crossing, the Alternative 11 Model continues to see improvement due to the modified inline pond. From Tupelo Road #2 to Cardinal Lane, the Alternative 11 10-year WSELs are between 0.09-feet to 1.02-feet lower than existing and the 100-year WSELs are between 0.06-feet to 0.18-feet lower than existing. Downstream of Cardinal Lane, the Alternative 11 10-year WSELs are within 1.95-feet of existing and the Alternative 10 100-year WSELs are within 0.41-feet of existing.

At Cardinal Lane, the roadway begins to overtop during the 50-year storm event. Although the Alternative 11 model shows reduced water surface elevations in the vicinity of the Cardinal Lane crossing, Cardinal Lane will continue to overtop during the 50-year storm event.

From the Tupelo Road #2 crossing to Cardinal Lane, the surrounding area for Deadman Brook consists of 1 acre residences. In the Existing Conditions Model, several properties are shown to be impacted by overtopping flows, beginning at the 2-year storm event. Although Alternative 11 Model continues to show overtopping, it does reduce the inundation area of the floodplain. Alternative 11 reduces the inundation of the existing 10-year floodplain by 23.8% and the 100-year floodplain by 7.3%.

Downstream of Cardinal Lane, the brook is surrounded 1 acre residences. Further downstream, the brook becomes largely surrounded by forested area with 1 acre residences dispersed throughout. Between Cardinal Lane and Highland Road, the Alternative 11 model reduces the 10-year floodplain by 25.9% and the 100-year floodplain by 3.0%. The reductions to the floodplains have a slight improvement to several of the residences bordering the brook, limiting the amount of overtopping flow that impacts the properties.

While the increased storage capacity proposed in Alternative 11 does not remove any residences from the 100-year floodplain, several residences are shown to have significant reductions to their properties during lower storm events. Three residences would be removed from the 10-year floodplain; 204 Bayberry Lane, 12 Cardinal Lane and 15 Lockwood Circle. Additionally, seven properties would remain in the 10-year floodplain but experience reduced impact.

The construction cost of Alternative 11 is estimated to be \$290,000, including incidentals, contingencies, a minor item allowance and two years of inflation at 5% per year. Design, permitting and right-of-way fees are not included.

6.12 Alternative 12: Storage Area near Sturges Highway

Alternative 12 examined the addition of an offline flood storage basin near Sturges Highway, just downstream of the Deadman Brook confluence with Tributary 8. This area is currently undeveloped, mainly consisting of forest. The offline flood storage basin has a designed storage capacity of approximately 113,000 cubic feet. The basin allows for 8-feet of water to infiltrate into the ground before reaching the outlet (although, conservatively, no credit for this has been included in the stormwater calculations). Once the basin reaches its capacity, flow will be directed back into

Deadman Brook through a graded swale. The layout of the Alternative 12 storage area is shown on Figure 22.

SCS Flows (cfs)				
Deadman Brook at Tupelo Road				
Storm Event	Existing	Alternative 12	Alternative 12 vs. Existing	
2-Year	16.4	16.4	0.0	0.0%
10-Year	45.0	44.1	-0.9	-2.0%
50-Year	80.7	74.3	-6.4	-7.8%
100-Year	102.9	93.6	-9.3	-9.1%
500-Year	173.2	156.4	-16.8	-9.7%

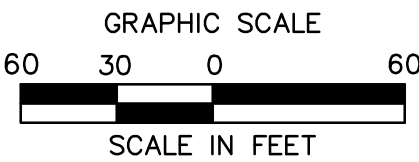
At Tupelo Road, all the studied storm events either matched or experienced a reduction in flows due to the offline flood storage basin. The largest change in flow is experienced during the 500-year storm event. Alternative 10 has 500-year flow of 156.4 cfs, 9.7% less than existing.

To observe the basin's impact, the Alternative 12 10-year and 100-year water surface elevations for Deadman Brook were compared to the Existing Conditions elevations. Upstream of the storage basin's inlet, Alternative 12 saw a reduction in 10-year and 100-year water surface elevations. From the 245 Sturges Highway driveway bridge to the storage basin's inlet, the Alternative 12 10-year WSELs range from 0.14-feet to 0.16-feet lower than the existing WSELs, while the 100-year WSELs ranged from 0.13-feet to 0.17-feet lower than existing.

Water Surface Elevations (feet)						
Deadman Brook						
Section	Existing		Alternative 12		Alternative 12 vs. Existing	
	10-Year	100-Year	10-Year	100-Year	10-Year	100-Year
245 Sturges Hwy Driveway Bridge	---	---	---	---	---	---
22810	226.20	226.73	226.05	226.56	-0.15	-0.17
22610	226.19	226.71	226.03	226.54	-0.16	-0.17
22410	226.19	226.70	226.03	226.53	-0.16	-0.17
22260	---	---	226.03	226.52	---	---
22200	226.18	226.69	226.03	226.52	-0.15	-0.17
22100	226.17	226.67	226.03	226.52	-0.14	-0.15
22000	---	---	226.03	226.52	---	---
21980	226.17	226.67	226.03	226.52	-0.14	-0.15
Footbridge	---	---	---	---	---	---
21955	226.17	226.66	226.02	226.52	-0.15	-0.14
21935	226.17	226.66	226.02	226.52	-0.15	-0.14
21720	226.17	226.65	226.02	226.51	-0.15	-0.14
21340	226.16	226.63	226.02	226.51	-0.14	-0.12
21320	226.15	226.59	226.02	226.51	-0.13	-0.08
Tupelo Rd	---	---	---	---	---	---



ALTERNATIVE 12



DEADMAN BROOK WATERSHED STUDY
WESTPORT, CONNECTICUT

REVISIONS
No. Date Desc.

Designed N.J.P.
Drawn N.J.P.
Checked D.M.C.
Approved
Scale 1"=60'
Project No. 16C6016
Date MARCH 2018

CAD File:
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Title
ALTERNATIVE 12
LAYOUT PLAN

Sheet No.

FIGURE-22

Xref (s) : XREFC01631 : Aerial With Watershed : BD16C6016-DWB

Downstream of the storage basin's inlet, Alternative 12 continues to see a reduction in 10-year and 100-year water surface elevations. From storage basin's inlet to the closest downstream Tupelo Road crossing, the Alternative 12 10-year WSELs range from 0.13-feet to 0.15-feet lower than existing and the Alternative 12 100-year WSELs range from 0.08-feet to 0.17-feet lower than existing.

At Tupelo Road, the Existing Condition model shows the roadway begins to overtop during the 2-year storm event. Although the peak flows are reduced for most of the studied storm events, the Alternative 12 model continues to show overtopping at the Tupelo Road crossing during the 2-year storm event. Additionally, in the Existing Conditions Model, the 100-year floodplain impacted several properties along this portion of the brook. The Alternative 12 model continues to show these residences impacted during the 10-year and 100-year storm events.

Between the Tributary 1 confluence and Tupelo Road, Deadman Brook is largely surrounded by forested area with 1 acre residences dispersed throughout. As the brook flows downstream to Tupelo Road, the surrounding area mainly consists of 1 acre residences. In this portion of the brook, the Alternative 12 model reduces the existing 10-year floodplain by 6.7% and the 100-year floodplain by 6.8%. Residences that are shown to currently be impacted within this portion of the brook will continue to be impacted in this alternative. Downstream of the Tupelo Road crossing, the Alternative 12 model shows the 10-year and 100-year WSELs within 0.05-feet of existing.

The construction cost of Alternative 12 is estimated to be \$170,000, including incidentals, contingencies, a minor item allowance and two years of inflation at 5% per year. Design, permitting and right-of-way fees are not included.

SECTION 7 - CT DEEP COORDINATION

The alternatives investigated above were discussed with the Connecticut Department of Energy and Environmental Protection (CT DEEP) in August 2017. Representatives from the CT DEEP Land and Water Resources Division and Dam Safety were present. During the meeting, the feasibility of each alternative was discussed, as well as the general permitting required if the alternatives were developed further.

During the discussion, CT DEEP stated they no longer support the construction of any new inline flood storage basin with a watershed area over 100 acres. Recently, the Town of Darien had a permit with this type of design rejected. The reasoning is that inline flood storage basins have the possibility of diminishing the water quality of runoff flowing into it. Inline flood storage basins also create a possibility of disrupting surrounding wetland areas. However, CT DEEP accepted the notion of regrading existing inline flood storage basins to increase their capacities.

CT DEEP suggested, once the Town develops a plan of which projects to continue studying or continue with further design, that a pre-application meeting be held to discuss all planned projects and their global benefit to the watershed. The meeting will help determine the permitting required as well as if the potential projects should be constructed in a certain phase.

CT DEEP acknowledged that each presented alternative would be permissible under their guidelines. Other potential improvements examined during the investigation phase of this report were not included for the Town's consideration.

CT DEEP permits potentially required include Flood Management Certification, Inland Wetlands and Watercourses, Dam Safety, Water Diversion and 401 Water Quality. For any storage area with a depth over 5-feet, a Dam Safety permit will be required. Additional permits would also be required from the Army Corps of Engineers (pre-construction notification) and the Town of Westport (Conservation Commission and Planning and Zoning Department).

SECTION 8 - RECOMMENDED IMPROVEMENTS

Through the analysis of the alternatives and coordination with CT DEEP, BL Companies recommends the Town of Westport implement further study and design of the proposed improvements specified in Alternatives 1, 6, 7, 10 and 11. Due to the ability of the recommended alternatives to decrease flows within Deadman Brook and reduce flooding limits and water surface elevations on residential properties, these alternatives were chosen over the others studied. These alternatives consist of:

- Widening the channel between Myrtle Avenue and U.S. Route 1 (Alternative 1).
- Addition of two flood storage basins along Tributary 1 (Alternative 6).
- Replacement of the Tributary 3 Roseville Road crossing and regrading of the existing inline storage basin along Tributary 3 (Alternative 7).
- Addition of an offline flood storage basin at Bayberry Lane and replacement of the Bayberry Lane crossing (Alternative 10).
- Regrading of the Tupelo Road inline pond (Alternative 11).

To study the overall effect of the proposed improvements, the recommended alternatives were combined into an overall Recommended Model. In comparison of the inundation limits, the Recommended Model reduces the overall existing 100-year floodplain by approximately 5.3%. Several sections within the brook are presented below to show the effect of the Recommended Model. Sheets showing the existing and proposed inundation limits for the 2-year, 10-year, 25-year, 50-year, 100-year and 500-year storm events are included in Appendix F.

Alternative 1 proposed modifying the channel width between Myrtle Avenue and U.S. Route 1 to contain the 2-year storm event. The alternative proposed increasing the channel width from 4-feet to 25-feet. In the Recommended Model, the Deadman Brook 2-year flow at Myrtle Avenue is reduced by 5.7%. Due to the reduced flow rate, a narrower, 20-foot channel width is able to contain the 2-year flow. As with Alternative 1, the east bank's vertical wall remains in the design to limit the disturbance to the existing businesses east of the brook. The west bank was graded at a 2H:1V slope to increase the capacity of the brook.

At Myrtle Avenue, the modifications proposed in the Recommended Model reduce peak flows for all studied storm events. The largest reduction of flow is seen during the 100-year storm event. The flow rate for the 100-year storm event is 104.2 cfs, 8.3% less than the Existing Conditions Model.

SCS Flows (cfs)				
Deadman Brook at Myrtle Avenue				
Storm Event	Existing	Recommended	Recommended vs. Existing	
2-Year	284.4	268.1	-16.3	-5.7%
10-Year	837.7	776.3	-61.4	-7.3%
50-Year	1,042.3	960.8	-81.5	-7.8%
100-Year	1,254.3	1,150.1	-104.2	-8.3%
500-Year	1,834.8	1,697.4	-137.4	-7.5%

Similar reductions are seen at the confluence with the Saugatuck River. As with the flows at Myrtle Avenue, the largest reduction of flow is seen during the 100-year storm event. The flow rate for the 100-year storm event is 1,229.3 cfs, 8.2% less than the Existing Conditions Model.

SCS Flows (cfs)				
Deadman Brook at the Saugatuck River Confluence				
Storm Event	Existing	Recommended	Recommended vs. Existing	
2-Year	315.0	296.5	-18.5	-5.9%
10-Year	876.1	813.4	-62.7	-7.2%
50-Year	1,110.4	1,022.4	-88.0	-7.9%
100-Year	1,338.3	1,229.3	-109.0	-8.2%
500-Year	1,970.9	1,835.4	-135.5	-6.9%

Between Myrtle Avenue and U.S. Route 1, the 2-year water surface elevations for the Recommended Model were compared to the Existing Conditions Model. At Section 2025, the Myrtle Avenue downstream bridge face, the Recommended Model's 2-year WSEL is 1.96-feet lower than existing. At Section 1975, 50-feet further downstream, the Recommended Model's 2-year WSEL is 1.38-feet lower than existing. As with the Alternative 1 Model, the Recommended Model saw an increase in 2-year WSELs at Sections 1920 and 1875 due to the undersized bridge opening of the U.S. Route 1 crossing. Although the WSELs increased in these sections, flow remains within the widened channel. Downstream of U.S. Route 1, the Recommended Model's 2-year WSELs are within 0.04-feet of existing.

The Recommended Model's 10-year and 100-year water surface elevations were also compared to the Existing Conditions Model. Like the 2-year storm event, the channel widening produced a decrease in water surface elevations immediately downstream of Myrtle Avenue. At Section 2025, the Myrtle Avenue downstream bridge face, the Recommended Model's 10-year and 100-year WSELs decrease 0.60-feet and 1.14-feet, respectively. From Section 2025 to U.S. Route 1, the Recommended Model's 10-year WSELs are 0.60-feet lower than existing and the 100-year WSELs range between 0.27-feet and 0.51-feet lower than existing.

Water Surface Elevations (feet) Deadman Brook									
Section	Existing			Recommended Model			Recommended vs. Existing		
	2-Year	10-Year	100-Year	2-Year	10-Year	100-Year	2-Year	10-Year	100-Year
22 Evergreen Driveway	---	---	---	---	---	---	---	---	---
3215	20.25	20.79	21.94	20.16	20.70	21.58	-0.09	-0.09	-0.36
3160	19.62	20.42	21.55	19.57	20.35	21.46	-0.05	-0.07	-0.09
3065	18.66	19.42	20.22	18.62	19.35	20.06	-0.04	-0.07	-0.16
2840	17.41	18.44	19.63	17.30	18.30	19.43	-0.11	-0.14	-0.20
2715	16.56	17.51	19.03	16.48	17.35	18.82	-0.08	-0.16	-0.21
2540	16.32	17.26	18.84	16.22	17.08	18.62	-0.10	-0.18	-0.22
2400	15.37	16.78	17.73	15.31	16.33	17.54	-0.06	-0.45	-0.19
2285	13.51	16.58	15.06	13.11	15.98	14.96	-0.40	-0.60	-0.10
2130	13.37	16.57	14.36	12.42	15.97	14.29	-0.95	-0.60	-0.07
2080	13.43	16.58	14.41	12.52	15.98	14.19	-0.91	-0.60	-0.22
Myrtle Ave	---	---	---	---	---	---	---	---	---
2025	12.20	16.58	13.97	10.24	15.98	12.83	-1.96	-0.60	-1.14
1975	11.57	16.58	13.34	10.19	15.98	12.83	-1.38	-0.60	-0.51
1920	10.13	16.58	13.23	10.24	15.98	12.96	+0.11	-0.60	-0.27
1875	10.13	16.58	13.23	10.24	15.98	12.96	+0.11	-0.60	-0.27
U.S. Route 1	---	---	---	---	---	---	---	---	---

Between Myrtle Avenue and U.S. Route 1, the Recommended Model reduces the 10-year floodplain extent by 3.5% and the 100-year floodplain by 36.1%. However, flooding still occurs as the surrounding grade has a general elevation of 10.50-feet. During the 100-year event, three structures near the intersection of Myrtle Avenue and Church Lane (north of Deadman Brook) are removed from the inundation limit.

Downstream of U.S. Route 1, the Recommended Model's 10-year WSELs range between 0.60-feet and 0.61-feet lower than existing and the 100-year WSELs are 0.33-feet below existing.

At the confluence with Tributary 3, the modifications proposed in the Recommended Model reduce peak flows for all studied storm events (except the 2-year storm). For the 2-year storm event, the Recommended Model's peak flow is 1.0 cfs higher than existing; a 0.5% increase in peak flow. The largest reduction of flow is seen during the 500-year storm event. The Recommended Model's flow rate for the 500-year storm event is 1,075.8 cfs, 11.8% less than the Existing Conditions Model. The 100-year flow decreases 8.1%. Similar reductions are seen at Deerwood Lane.

SCS Flows (cfs) Deadman Brook at Tributary 3 Confluence				
Storm Event	Existing	Recommended	Recommended vs. Existing	
2-Year	204.7	205.7	+1.0	+0.5%
10-Year	421.8	417.4	-4.4	-1.0%
25-Year	565.9	559.5	-6.4	-1.1%
50-Year	722.6	684.5	-38.1	-5.3%
100-Year	868.5	798.3	-70.2	-8.1%
500-Year	1,220.4	1,075.8	-144.6	-11.8%

Like the Tributary 3 confluence, at Deerwood Lane, the largest reduction of flow is seen during the 500-year storm event. The Recommended Model's flow rate for the 500-year storm event is 1,114.7 cfs, 11.6% less than the Existing Conditions Model. The 100-year flow decreases 8.1%.

SCS Flows (cfs) Deadman Brook at Deerwood Lane				
Storm Event	Existing	Recommended	Recommended vs. Existing	
2-Year	209.9	210.3	+0.4	+0.2%
10-Year	432.8	427.4	-5.4	-1.2%
25-Year	579.9	572.2	-7.7	-1.3%
50-Year	741.9	702.0	-39.9	-5.4%
100-Year	893.7	821.3	-72.4	-8.1%
500-Year	1,260.4	1,114.7	-145.7	-11.6%

Along Tributary 3, between Roseville Road and the Tributary 3A/3B confluence, the Recommended Model reduces the existing 10-year floodplain by 1.0% and the existing 100-year floodplain by 48.5%. There are five structures removed from the 100-year inundation limit.

Between the confluence of Tributary 3 and Deerwood Lane, the Recommended Model's 10-year and 100-year storm events saw reduced water surface elevations in comparison to the existing conditions. In this section of the brook, the Recommended Model's 10-year WSELs range between 0.01-feet and 0.08-feet lower than existing and the 100-year WSELs range between 0.05-feet and 0.22-feet lower than existing.

Water Surface Elevations (feet) Deadman Brook between Roseville Road and Deerwood Lane						
Section	Existing		Recommended Model		Recommended vs. Existing	
	10-Year	100-Year	10-Year	100-Year	10-Year	100-Year
Roseville Rd	---	---	---	---	---	---
8410	124.51	125.74	124.49	125.59	-0.02	-0.15
8260	100.05	101.94	100.03	101.72	-0.02	-0.22
8210	98.75	100.55	98.73	100.37	-0.02	-0.18
8130	97.06	98.60	97.03	98.41	-0.03	-0.19
8080	96.80	97.81	96.78	97.71	-0.02	-0.10
Footbridge	---	---	---	---	---	---

8050	95.59	97.39	95.57	97.19	-0.02	-0.20
8030	95.46	96.66	95.45	96.51	-0.01	-0.15
8010	95.54	96.17	95.52	96.04	-0.02	-0.13
Footbridge	---	---	---	---	---	---
7990	94.85	95.57	94.84	95.50	-0.01	-0.07
7980	94.77	95.57	94.74	95.47	-0.03	-0.10
Driveway	---	---	---	---	---	---
7940	92.56	92.98	92.55	92.93	-0.01	-0.05
7900	90.65	91.93	90.61	91.83	-0.04	-0.10
7790	88.28	89.47	88.26	89.28	-0.02	-0.19
7610	88.20	89.22	88.12	89.12	-0.08	-0.10
7505	88.12	89.06	88.04	88.98	-0.08	-0.08
Deerwood Ln	---	---	---	---	---	---

Downstream of Deerwood Lane, until Compo Road North, the recommended 10-year WSELs are within 0.07-feet of existing and the 100-year WSELs are within 0.42-feet of existing. From the confluence of Tributary 3 to Compo Road North, the Recommended Model reduces the existing 10-year floodplain by 1.4% and the existing 100-year floodplain by 2.3%. Although the flooding decreases, there are no structures removed from the inundation limits in the immediate area.

At Bayberry Lane, the modifications proposed in the Recommended Model reduce peak flows for all studied storm events. The largest reduction of flow is seen during the 100-year storm event. The flow rate for the 100-year storm event is 161.5 cfs, a 20.8% decrease from the Existing Conditions Model.

SCS Flows (cfs)				
Deadman Brook at Bayberry Lane				
Storm Event	Existing	Recommended	Recommended vs. Existing	
2-Year	30.3	28.0	-2.3	-7.6%
10-Year	68.3	55.3	-13.0	-19.0%
25-Year	118.2	96.4	-21.8	-18.4%
50-Year	158.1	128.1	-30.0	-19.0%
100-Year	203.8	161.5	-42.3	-20.8%
500-Year	316.2	296.1	-20.1	-6.4%

Between Highland Road and Bayberry Lane, the recommended 10-year and 100-year water surface elevations were compared to existing. In this section, the recommended 10-year WSELs range between 0.11-feet and 2.62-feet lower than existing and the recommended 100-year WSELs range from 0.13-feet to 1.68-feet lower than existing.

Water Surface Elevations (feet) Deadman Brook between Highland Road and Vineyard Lane						
Section	Existing		Recommended Model		Recommended vs. Existing	
	10-Year	100-Year	10-Year	100-Year	10-Year	100-Year
Highland Rd	---	---	---	---	---	---
18360	206.64	207.73	206.46	207.60	-0.18	-0.13
18300	205.94	206.72	205.83	206.57	-0.11	-0.15
18095	204.26	205.53	201.64	203.88	-2.62	-1.65
18050	204.26	205.54	201.64	203.86	-2.62	-1.68
Bayberry Ln	---	---	---	---	---	---
17835	201.22	202.39	201.14	201.83	-0.08	-0.56
17775	200.86	202.36	200.84	201.67	-0.02	-0.69
17550	200.03	202.36	199.96	201.69	-0.07	-0.67
17395	199.75	202.33	199.65	201.62	-0.10	-0.71
17350	199.72	202.32	199.62	201.60	-0.10	-0.72
Vineyard Ln	---	---	---	---	---	---

Upstream of Highland Road, the recommended 10-year WSELs range between 0.14-feet and 1.95-feet lower than existing and the 100-year WSELs are within 0.15-feet of existing. Between Cardinal Lane and Bayberry Lane, the Recommended Model reduces the existing 10-year floodplain by 28.7% and the 100-year floodplain by 10.9%. However, no structures are removed from the 100-year inundation limit in the immediate area.

Between Bayberry Lane and the closest downstream Vineyard Lane crossing, the recommended 10-year WSELs are within 0.10-feet of existing and the 100-year WSELs are between 0.56-feet and 0.72-feet lower than existing. From Bayberry Lane to Vineyard Lane, the Recommended Model reduces the existing 10-year floodplain by 4.8% and the 100-year floodplain by 18.0%. In this area, there is one structure removed from the 100-year inundation limit.

Appendix A – FEMA Information

FLOOD INSURANCE STUDY

VOLUME 1 OF 6



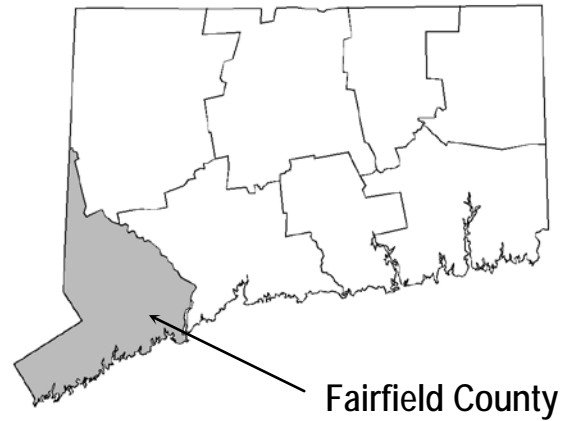
FAIRFIELD COUNTY, CONNECTICUT (ALL JURISDICTIONS)

COMMUNITY NAME

BETHEL, TOWN OF
BRIDGEPORT, CITY OF
BROOKFIELD, TOWN OF
DANBURY, CITY OF
DARIEN, TOWN OF
EASTON, TOWN OF
FAIRFIELD, TOWN OF
GREENWICH, TOWN OF
MONROE, TOWN OF
NEW CANAAN, TOWN OF
NEW FAIRFIELD, TOWN OF
NEWTOWN, TOWN OF
NORWALK, CITY OF
REDDING, TOWN OF
RIDGEFIELD, TOWN OF
SHELTON, CITY OF
SHERMAN, TOWN OF
STAMFORD, CITY OF
STRATFORD, TOWN OF
TRUMBULL, TOWN OF
WESTON, TOWN OF
WESTPORT, TOWN OF
WILTON, TOWN OF

COMMUNITY NUMBER

090001
090002
090003
090004
090005
090006
090007
090008
090009
090010
090188
090011
090012
090141
090013
090014
090166
090015
090016
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090018
090019
090020



Revised:
October 16, 2013



Federal Emergency Management Agency

FLOOD INSURANCE STUDY NUMBER
09001CV001C

Weston, Town of: - continued

The hydrologic and hydraulic analyses for the West Branch Saugatuck River for the FIS report dated December 19, 1997 were prepared by Roald Haestad, Inc., for FEMA under Contract No. EMW-94-C-4405. That work was completed in December 1995.

Westport, Town of:

The hydrologic and hydraulic analyses for some portions of the original June 4, 1984, FIS report and December 4, 1984, FIRM, were performed by the USACE, New England District, for FEMA, under Inter-Agency Agreement No. IAA-H-19-74, Project Order No. 15. That work was completed in November 1975.

Also for the 1984 FIS, the hydrologic and hydraulic analyses for the portions of the study that include Stony Brook (now known as Stony Brook 2), the section of Dead Man's Brook from the Silent Grove North crossing to a point approximately 1,450 feet upstream of Highland Road, Poplar Plains Brook, and Willow Brook were conducted by CE Maguire, Inc., for FEMA, under Contract No. EMW-C-0278. That work was completed in September 1982. Subsequent revisions to the hydraulic analysis for Stony Brook 2, as requested by the Town of Westport, were completed by CE Maguire, Inc., for FEMA, under Contract No. EMW-C-0278. That work was completed in February 1984.

The hydrologic and hydraulic analyses for the West Branch Saugatuck River for the FIS report dated January 7, 1998 were prepared by Roald Haestad, Inc., for FEMA, under Contract No. EMW-94-C-4405, Amendment No. 1. That work was completed in December 1995.

Wilton, Town of:

The hydrologic and hydraulic analyses for the original May 17, 1982, FIS and November 17, 1982, Flood Boundary and Floodway Map (FBFM), were prepared by Philip W. Genovese and Associates for FEMA, under Contract No. H-4711. That work was completed in May 1980.

The hydrologic and hydraulic analyses for the FIS report dated June 4, 1990 were prepared by the USGS for FEMA, under Inter-Agency Agreement

There have been at least 26 major storms in the period of 1693-2000 in the Housatonic River Basin; however, none of these were as great as the flood caused by Hurricane Diane in 1955.

Flooding from the Housatonic River (Upper Reach) within the town has only affected farm land. A few acres of cornfield reportedly were flooded during the 1955 flood, but no structures were affected by this flood. The maximum water-surface elevation during the 1955 flood, measured at the Gaylordsville gage on the Housatonic River (Upper Reach), was recorded at 319.3 feet with a flow rate of 17,400 cfs. Rocky River Reservoir Gage No. 02101000 at Lake Candlewood reached an elevation of 428.5 feet for this same storm event. The following USGS gaging stations were used in the hydrologic analyses in this study: Gage No. 01205500 at Stevenson, Connecticut; and Gage No. 0230050 and Gage No. 01200000 at Gaylordsville, Connecticut.

In the Town of Stratford, flooding on Long Brook, upstream of Interstate Route 95 (Connecticut Turnpike bridge) is caused by riverine flooding; flooding downstream of the bridge is tidal in nature. Therefore, the dividing line between tidal and riverine flooding for Long Brook was set at the Connecticut Turnpike bridge.

In the Town of Trumbull, because of the steep topography and the limited valley storage of the streams, most of the streams studied are subject to rapid rates of rise and high velocities, both characteristic of flash floods. The Pequonnock River (Lower Reach) and Pequonnock River (Upper Reach) have a relatively large drainage area and, in sections, a flat gradient. This river may be subject to floods with longer durations and higher water depths.

In the Town of Westport, areas of the town periodically subjected to flooding include the Compo Beach and Sherwood Island State Park sections along Long Island Sound, and the areas adjacent to the Saugatuck River (Lower Reach) near the confluences of Dead Man's, Silver, and Willow Brooks and Stony Brook 2.

The history of flooding in the Town of Wilton indicates that there has been little basin-wide flooding, but a number of instances of localized flooding.

2.4 Flood Protection Measures

There are no structural flood protection measures, existing or planned, within the Town of Bethel, the Town of New Fairfield, the City of Shelton, or the Town of Weston.

Non-structural measures of flood protection are being utilized to aid in the prevention of future flood damage. These are in the form of land use regulations, developed by the Community's Conservation Commission, which control building within wetland areas.

In the City of Bridgeport, in 1973, a study was prepared for Island Brook, from the spillway at Lake Forest to its confluence with the Pequonnock River (Lower Reach); the spillway at Charcoal Pond; the existing drainage structures; and the stream channels (Reference 34). No flood control improvements will be implemented in the foreseeable future along Island Brook.

The Stamford Environmental Protection Board and the Connecticut Department of Environmental Protection regulate floodplain encroachment ordinances within the city and establish restrictions in floodprone areas. The Environmental Protection Board can provide site-specific flood and flood-related data, such as where property is in relation to the floodplain on the FIRM, the potential depth of flooding affecting a property, historic flooding for a neighborhood, and information regarding the regulations and permit requirements that pertain to construction and development activities on floodprone properties.

In the Town of Stratford, in March 1963, the USACE proposed a hurricane protection plan for Stratford that consisted principally of diking around the greater part of the flooded area in the Great Meadows section of the town; diking and wall protection along and inshore of the west bank of the lower Housatonic River (Lower Reach) and the shoreline of Long Island Sound north of Stratford Point; and pumping stations and other appurtenant works (Reference 38). Consideration of this hurricane barrier was dropped in 1975 because it would have adversely affected a wetland area.

There are no current flood protection measures in the Town of Stratford. Recent legislation, in the form of a wetlands bill, will enable the town to improve its guidelines for the development of lowland, wetland, and streambelt areas; it will not, however, address the problems posed by the existing high degree of urbanization in the town.

Adequate storage facilities exist only on Pumpkin Ground Brook; Beaver Dam Lake and Trap Falls Reservoir effectively lower the flood flows on this stream. However, these storage facilities are located at the head of the watershed, and are therefore not entirely effective. Beaver Dam Lake is in the northwest corner of town, and Trap Falls Reservoir is located outside the corporate limits, approximately 1 mile upstream of Beaver Dam Lake.

In the Town of Trumbull, at this time, no flood protection measures exist on the streams studied. Although there are a number of small dams on the streams studied, none provide significant storage for flood protection.

However, nine sites on the Pequonnock River (Upper Reach) and the Pequonnock River (Lower Reach) have been redesigned in conjunction with the proposed, federally funded reconstruction of State Route 25. These include, in the vicinity of the Merritt Parkway, the addition of five bridge structures along with the realignments and improvement of the river's channel; and between Whitney Avenue and the Monroe Turnpike, the addition of four bridge structures along with channel realignments and improvements. These structures, channel realignments, and channel improvements were not been included in the hydraulic analyses performed for the 2010 countywide FIS study.

There are no existing state ordinances regulating encroachment into floodplains for the Town of Trumbull.

In the Town of Westport, flood protection works within the town include elevating buildings to higher levels through support in state grants; enacting tough regulations on home renovation and construction in floodprone areas whereby homeowners or businesses that build additions or renovations to their buildings in floodprone areas must

elevate the structure to one foot above the Base Flood Elevation (BFE) if their renovations or additions exceed 50 percent of the fair market value of the property in any five-year period; and widening of channels and enlarging of culverts in flood areas. Further, flood peaks are reduced by maintaining wetlands and upland lakes that attenuate peak flood flows through storage. In addition, the construction of seawalls has helped to reduce erosion of the coastal areas. And, the community has attempted to control direct encroachment on the immediate streambanks.

Previously, the NRCS had designed an entire system of flood control structures and channel modifications for the Norwalk River watershed, including five floodwater retarding structures and three lengths of channel modifications (Reference 39).

Only two of the NRCS dams have been constructed, one on Ridgefield Brook in Ridgefield and the other on Spectacle Brook, a tributary of Comstock Brook, in Wilton. NRCS policy prohibits channel modifications until all floodwater retarding structures are in place; therefore, the sections of channel modifications have not been completed.

3.0 ENGINEERING METHODS

For the flooding sources studied by detailed methods in the county, standard hydrologic and hydraulic study methods were used to determine the flood hazard data required for this study. Flood events of a magnitude that is expected to be equaled or exceeded once on the average during any 10-, 50-, 100-, or 500-year period (recurrence interval) have been selected as having special significance for floodplain management and for flood insurance rates. These events, commonly termed the 10-, 50-, 100-, and 500-year floods, have a 10-, 2-, 1-, and 0.2-percent chance, respectively, of being equaled or exceeded during any year. Although the recurrence interval represents the long term average period between floods of a specific magnitude, rare floods could occur at short intervals or even within the same year. The risk of experiencing a rare flood increases when periods greater than 1 year are considered. For example, the risk of having a flood which equals or exceeds the 1-percent-annual-chance in any 50-year period is approximately 40 percent (4 in 10); for any 90-year period, the risk increases to approximately 60 percent (6 in 10). The analyses reported herein reflect flooding potentials based on conditions existing in the county at the time of completion of this study. Maps and flood elevations will be amended periodically to reflect future changes. Riverine and coastal analyses are discussed separately in the following sections.

3.1 Riverine Hydrologic Analyses

Hydrologic analyses were carried out to establish the peak discharge-frequency relationships for the flooding sources studied by detailed methods affecting the county.

For each community within Fairfield County that has a previously printed FIS report, the unrevised hydrologic analyses described in those reports have been compiled and are summarized below by city or town.

the 50- to 1-percent-annual-chance data. The rainfall values used in the regression equations were obtained from "Aerial Rainfall Maps for Connecticut," which were included in a paper entitled "Flood Flow Formulas for Urbanized and Nonurbanized Areas of Connecticut," by the USGS (Reference 69). Data on stream length and channel slopes were obtained from USGS topographic maps (Reference 73). The percent stratified drift within the watershed was obtained from "Water Resources Inventory of Connecticut, Part 4, Southwestern Coastal River Basin," prepared by the USGS in cooperation with the Connecticut Water Resources Commission (Reference 79).

For the Town of Westport, in the 1984 FIS, The hydrologic analyses for the Saugatuck River (Lower Reach), the Aspetuck River (Lower Reach), Dead Man's Brook, Muddy Brook, and Sasco Creek were based on data from gaged streams in and near the study area, including the Norwalk River, the Silvermine River, the Saugatuck River (Lower Reach), the Still River, Sasco Creek, and CopperMill Brook. The data was subjected to the log-Pearson Type III statistical analysis of annual peaks with a required skew of 1.0 (Reference 62). From these data, frequency-discharge relationships were established for different sized drainage areas.

For the January 7, 1998, revision, For the West Branch Saugatuck River, peak discharges of the 10-, 2-, and 1-percent-annual-chance floods were calculated using regression equations established by the USGS (Reference 75). A regression equation was not available for the 0.2-percent-annual-chance flood; therefore, the peak discharge for the 0.2-percent-annual-chance flood was extrapolated from the lesser floods that were calculated. The rainfall values used in the regression equations also were obtained from the USGS (Reference 41). Data on the stream length and channel slopes were obtained from USGS topographic maps (Reference 73). The percent stratified drift within the watershed was obtained from "Water Resources Inventory of Connecticut, Part 4, Southwestern Coastal River Basin," prepared by the USGS in cooperation with the Connecticut Water Resources Commission (Reference 79).

In the Town of Wilton, for the 1982 FIS, peak discharges for the Norwalk River and Comstock Brook are a modification of the flows calculated by the NRCS (Reference 37). The discharges were modified because all of the planned NRCS flood-retarding structures were not completed by the time the June 18, 2010 countywide FIS was prepared. Therefore, the natural peak discharges calculated by the NRCS have been modified to include only the effects of the completed dams, the first on Ridgefield Brook, and the other on Spectacle Brook.

The NRCS method of calculating peak discharges is based on curves that predict runoff based primarily on soil type and land use. This method classifies areas according to these parameters and then applies a 24-hour duration storm to it to determine runoff units. This method then adjusts the resulting values based on watershed shape, channel slope, and the percentages of swampy and impervious areas to arrive at a peak discharge for the watershed (References 43 through 45). Discharges were then modified by the NRCS by routing the subject storms through the floodwater retarding structures using Wilson's routing method.

Also for the 1982 FIS, peak discharges for the East Branch Silvermine River were determined from formulas for ungaged streams in Connecticut developed by L.A. Weiss (Reference 41). The formulas were the result of a log-Pearson Type III regression

TABLE 5 - SUMMARY OF DISCHARGES - continued

<u>FLOODING SOURCE AND LOCATION</u>	<u>DRAINAGE AREA (sq. miles)</u>	<u>PEAK DISCHARGES (cfs)</u>			
		<u>10- PERCENT- ANNUAL- CHANCE</u>	<u>2- PERCENT- ANNUAL- CHANCE</u>	<u>1- PERCENT- ANNUAL- CHANCE</u>	<u>0.2- PERCENT- ANNUAL- CHANCE</u>
COPPER MILL BROOK					
At confluence with the Halfway River	2.48	343	458	575	1,050
CRICKER BROOK					
At confluence with Mill River	7.35	1,270	2,000	2,500	4,200
Above Congress Street and Dam	5.75	1,120	1,700	2,100	3,500
DEAD MAN'S BROOK					
At confluence with Saugatuck River (Lower Reach)	2.29	650	840	940	1,400
DEEP BROOK					
At confluence with Pootatuck River	5.40	505	965	1,236	2,103
Just downstream of Elm Drive	3.85	426	814	1,044	1,779
Just upstream of Cross Section AH	1.69	315	605	777	1,327
DIBBLES BROOK					
Upstream of confluence of Limekiln Brook 2	1.65	240	320	400	725
EAST BRANCH BYRAM RIVER					
Above confluence with Byram River	11.1	1,093	1,578	1,835	2,520
EAST BRANCH MIANUS RIVER					
At confluence with the Mianus River	5.30	950*	1,700*	2,100*	3,500*

*Flow from a report prepared by Leonard Jackson Associates

Town of Weston (Reference 108). The main channel and all bridges and culverts were field surveyed to obtain or verify elevation data and structural geometry.

Numerous footbridges along the restudied reach of the West Branch Saugatuck River were included in the HEC-2 model. The footbridges span the main channel and do not constrict the channel to a significant degree, if at all, and there are no embankments in the overbank areas. The footbridges were modeled using a simplified approach because of the large number of bridges within the study reach. The obstructions created by the footbridge decks and appurtenances were included in the model using BT cards for the normal bridge method. In a major flood event, the footbridges would likely be washed away by the floodwaters.

For the October 17, 1978, FIS, starting water-surface elevations were calculated using engineering judgment, except for the Aspetuck River (Lower Reach), for which starting water-surface elevations were taken from the FIS for the Town of Fairfield (Reference 47). For the December 19, 1997, revision, starting water-surface elevations for the West Branch Saugatuck River were taken from the HEC-2 results for the revised Towns of Westport and Wilton profiles.

For the Town of Westport, for the 1984 FIS, cross-section data were obtained by field measurements performed in June 1973, October 1980, and November 1981, and from available topographic maps (References 109 & 110). When available, bridge plans were utilized to obtain elevation data and structural geometry; all bridges and culverts for which plans were unavailable or out-of-date were surveyed.

For the January 7, 1998 revision, cross-section data for the West Branch Saugatuck River were compiled using contour information from topographic maps at a scale of 1:1,200, with a contour interval of 2 feet (Reference 110). The main channel and all bridges, culverts, and dams were field surveyed to obtain or verify elevation data and structural geometry. Numerous footbridges along the restudied reach of the West Branch Saugatuck River were included in the HEC-2 model. The footbridges span the main channel and do not constrict the channel to a significant degree, if at all, and there are no embankments in the overbank areas. The footbridges were modeled using a simplified approach because of the large number of bridges within the study reach. The obstructions created by the footbridge decks and appurtenances were included in the model using BT cards for the normal bridge method. In a major flood event, the footbridges would likely be washed away by the floodwaters.

No profiles are shown for the lower reaches of the Saugatuck River (Lower Reach), Stony Brook 2, Dead Man's Brook, Muddy Brook, and Sasco Creek, which are controlled by Long Island Sound.

In the 1984 FIS, starting water-surface elevations for the 1-percent-annual-chance flood for the Saugatuck River (Lower Reach), Muddy Brook, and Sasco Creek were obtained from the 10-percent-annual-chance tidal-surge elevation of Long Island Sound. The peaks on the streams and Long Island Sound were desynchronized. For the 10-percent-annual-chance starting water-surface elevation, the level of spring high tide on Long Island Sound was used. The 2-percent-annual-chance starting water-surface elevation

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD 88)			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Cricker Brook								
A	2,250 ¹	51	450	5.6	86.6	86.6	86.8	0.2
B	4,000 ¹	66	454	5.5	91.3	91.3	91.6	0.3
C	6,170 ¹	64	437	4.8	99.6	99.6	100.6	1.0
D	7,800 ¹	90	325	6.5	108.4	108.4	109.2	0.8
Dead Man's Brook								
A	2,400 ²	22	88	10.7	14.7	14.7	15.3	0.6
B	3,500 ²	50	277	3.4	26.8	26.8	26.8	0.0
C	5,400 ²	45	153	6.2	42.6	42.6	43.6	1.0
D	7,500 ²	90	292	2.4	91.6	91.6	92.5	0.9
E	9,470 ²	36	93	7.4	142.7	142.7	143.2	0.5
F	11,590 ²	50	147	4.7	165.1	165.1	166.0	0.9
G	13,690 ²	51	152	4.5	195.3	195.3	195.9	0.6
H	14,615 ²	151	671	0.7	198.4	198.4	199.4	1.0
I	15,000 ²	292	1,078	0.4	198.4	198.4	199.4	1.0
J	15,567 ²	330	861	0.5	198.6	198.6	199.5	0.9
K	15,768 ²	142	413	1.1	198.8	198.8	199.6	0.8
L	16,180 ²	67	195	2.4	199.1	199.1	199.8	0.7
M	16,633 ²	30	103	4.6	200.3	200.3	200.9	0.6
N	16,962 ²	22	117	4.0	203.2	203.2	203.2	0.0
O	17,250 ²	18	64	5.0	203.3	203.3	203.6	0.3
P	17,450 ²	120	277	1.2	205.0	205.0	205.1	0.1
Q	17,852 ²	50	63	5.0	208.3	208.3	208.5	0.2
R	18,142 ²	65	115	2.8	209.8	209.8	210.6	0.8
S	18,785 ²	14	38	8.3	210.9	210.9	211.3	0.4
T	19,232 ²	10	38	8.4	217.9	217.9	217.9	0.0

¹Feet above confluence with Mill River

²Feet above confluence with Saugatuck River (Lower Reach)

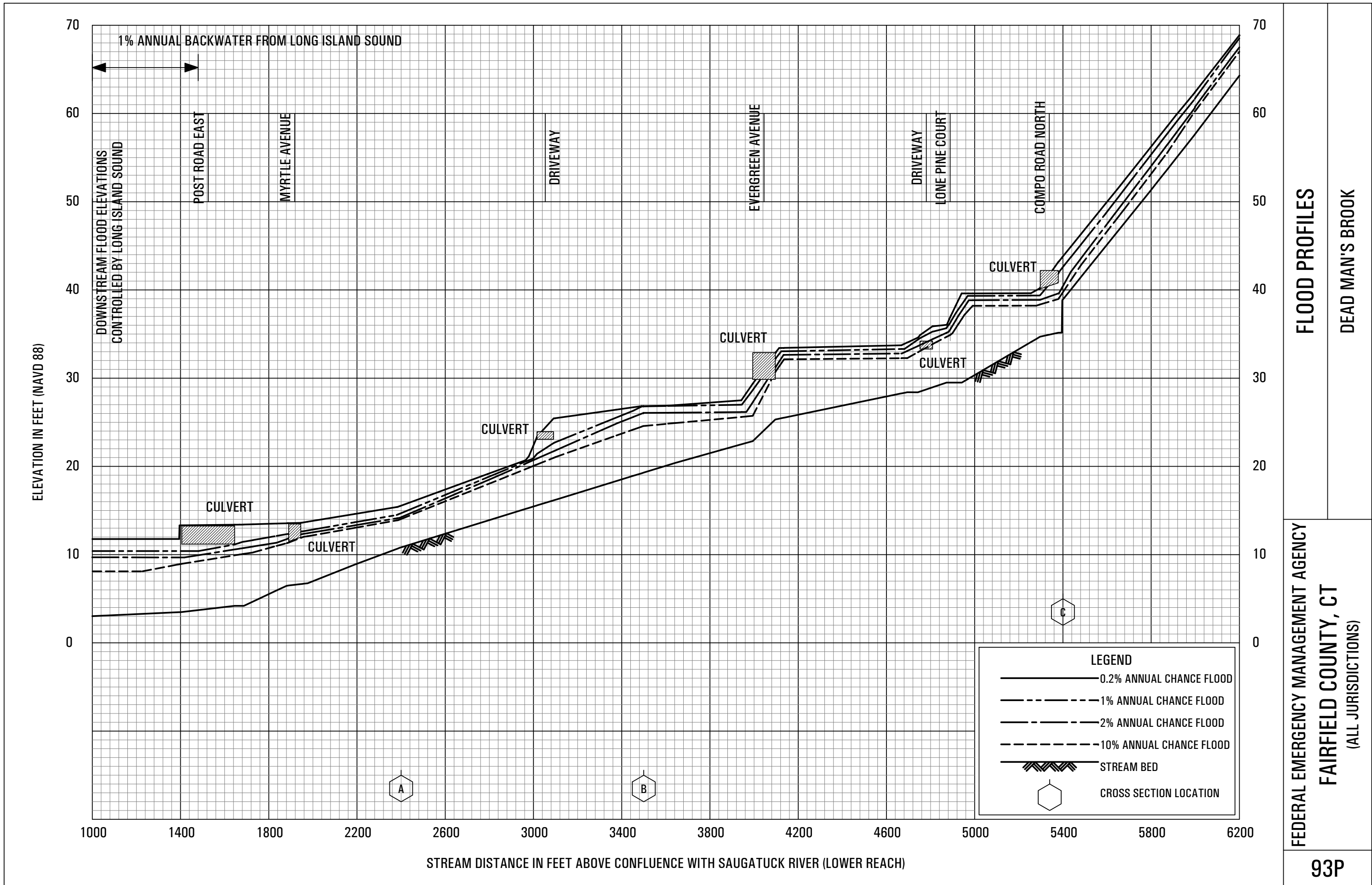
TABLE 11

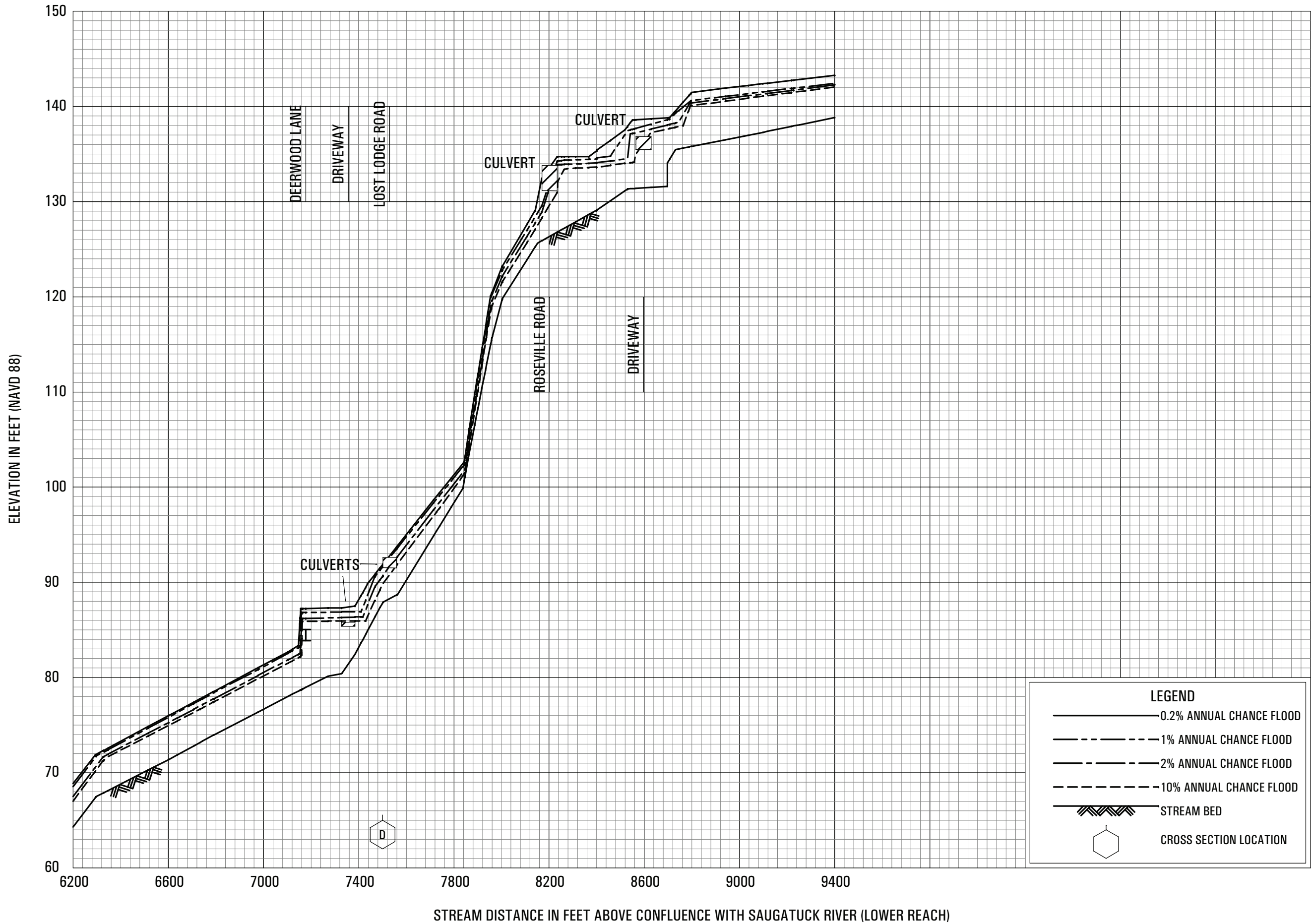
FEDERAL EMERGENCY MANAGEMENT AGENCY

FAIRFIELD COUNTY, CT
(ALL JURISDICTIONS)

FLOODWAY DATA

CRICKER BROOK – DEAD MAN'S BROOK

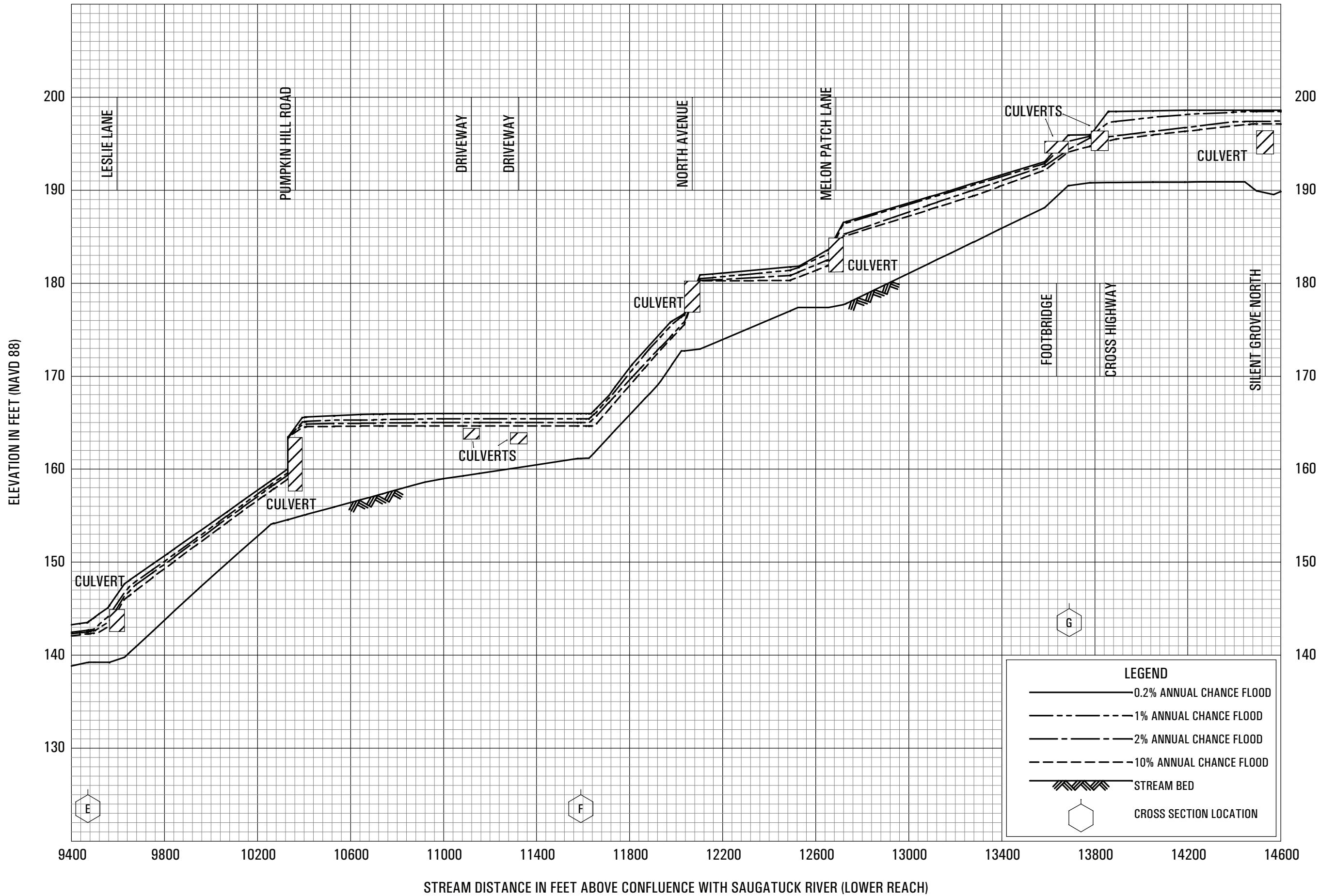




FLOOD PROFILES

DEAD MAN'S BROOK

FEDERAL EMERGENCY MANAGEMENT AGENCY
FAIRFIELD COUNTY, CT
(ALL JURISDICTIONS)

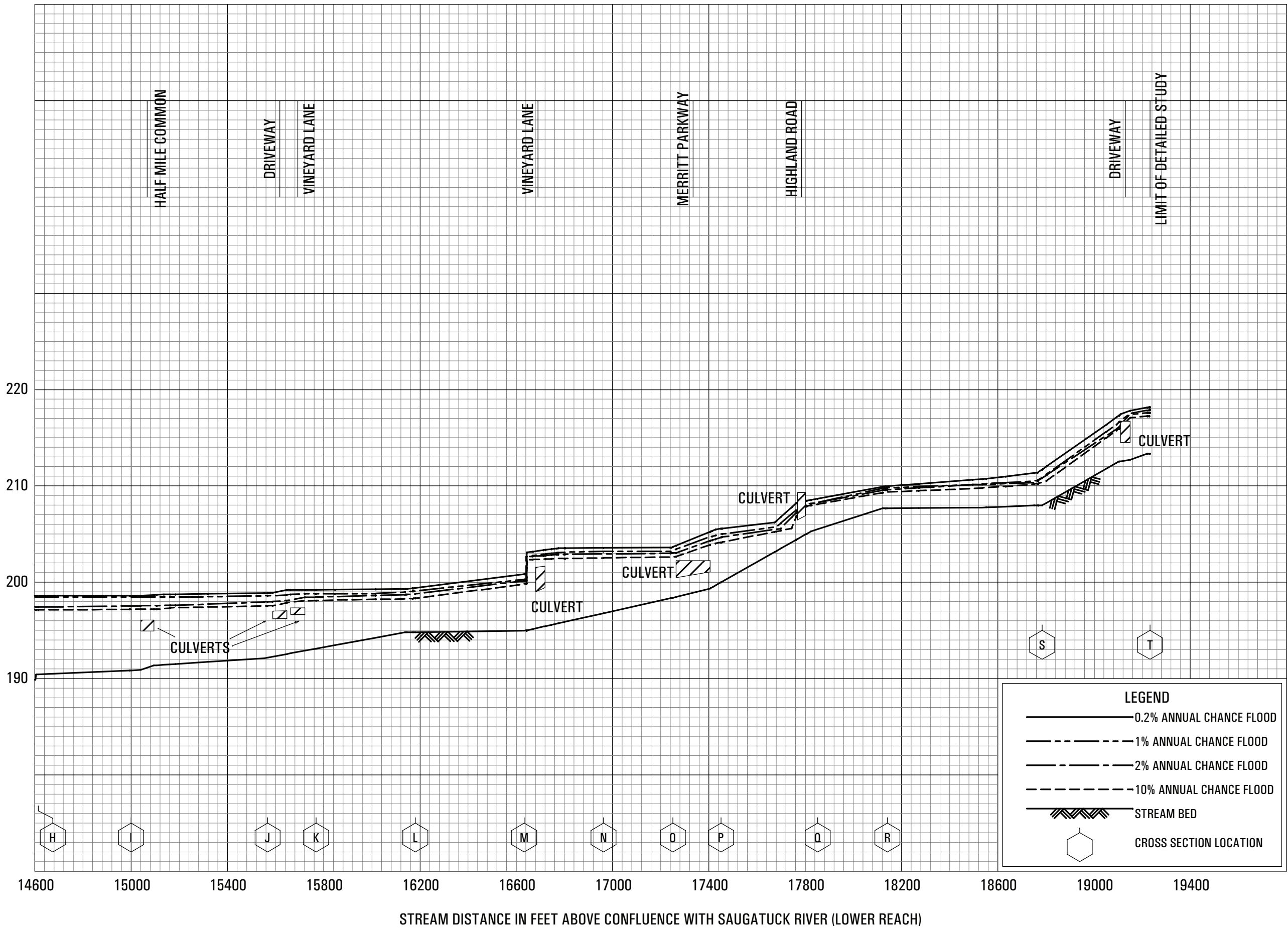


FLOOD PROFILES

DEAD MAN'S BROOK

FEDERAL EMERGENCY MANAGEMENT AGENCY
FAIRFIELD COUNTY, CT
(ALL JURISDICTIONS)

ELEVATION IN FEET (NAVD 88)



FLOOD PROFILES

DEAD MAN'S BROOK

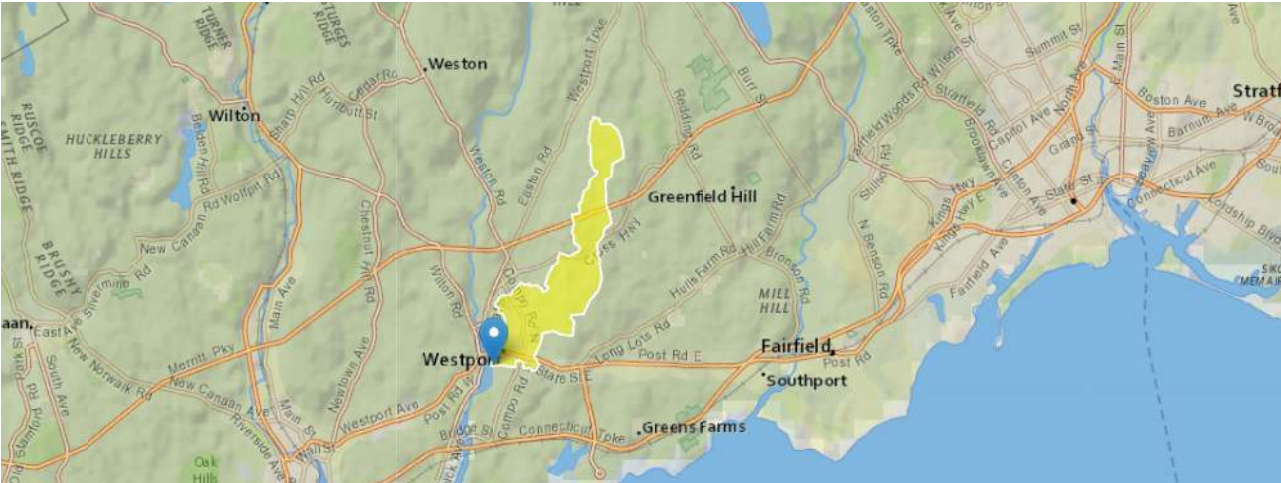
FEDERAL EMERGENCY MANAGEMENT AGENCY
FAIRFIELD COUNTY, CT
(ALL JURISDICTIONS)

Appendix B – Hydrology Calculations

Deadman Brook StreamStats Report

Region ID:
Workspace ID:
Clicked Point (Latitude, Longitude):
Time:

CT
CT20170814174933071000
41.13832, -73.36099
2017-08-14 17:50:53 -0400



Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	2.22	square miles
I24H2Y	Maximum 24-hour precipitation that occurs on average once in 2 years - Equivalent to precipitation intensity index	3.591	inches
ELEV	Mean Basin Elevation	179	feet
I24H10Y	Maximum 24-hour precipitation that occurs on average once in 10 years	5.219	inches
I24H25Y	Maximum 24-hour precipitation that occurs on average once in 25 years	6.461	inches
I24H50Y	Maximum 24-hour precipitation that occurs on average once in 50 years	7.597	inches
I24H100Y	Maximum 24-hour precipitation that occurs on average once in 100 years	8.934	inches

Peak-Flow Statistics Parameters [Statewide Multiparameter]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	2.22	square miles	1.69	715
I24H2Y	24 Hour 2 Year Precipitation	3.591	inches	2.95	3.82
ELEV	Mean Basin Elevation	179	feet	169	1310
I24H10Y	24 Hour 10 Year Precipitation	5.219	inches	4.15	5.53
I24H25Y	24 Hour 25 Year Precipitation	6.461	inches	4.93	7
I24H50Y	24 Hour 50 Year Precipitation	7.597	inches	5.62	8.36
I24H100Y	24 Hour 100 Year Precipitation	8.934	inches	6.41	9.99

Peak-Flow Statistics Flow Report [Statewide Multiparameter]

PII: Prediction Interval-Lower, PIu: Prediction Interval-Upper, SEp: Standard Error of Prediction, SE: Standard Error (other -- see report)

Statistic	Value	Unit	SE	SEe	SEp	Equiv. Yrs.
2 Year Peak Flood	102	ft ³ /s	31.8	30.4	31.8	3.5
10 Year Peak Flood	221	ft ³ /s	32.7	30.7	32.7	8.1
25 Year Peak Flood	294	ft ³ /s	34.4	31.9	34.4	10.9
50 Year Peak Flood	353	ft ³ /s	35.9	33.1	35.9	12.7
100 Year Peak Flood	412	ft ³ /s	37.6	34.6	37.6	14.3
500 Year Peak Flood	579	ft ³ /s	45	41.9	45	14.9

Peak-Flow Statistics Citations

Ahearn, E.A., 2004, Regression Equations for Estimating Flood Flows for the 2-, 10-, 25-, 50-, 100-, and 500-Year Recurrence Intervals in Connecticut: U.S. Geological Survey SRI 2004-5160, 62 p. (<http://water.usgs.gov/pubs/sir/2004/5160/>)



100 Constitution Plaza, 10th Floor
Hartford, Connecticut 06103

PROJECT: Deadman's Brook
Westport, CT

PREPARED BY Nick Parenty DATE _____
CHECKED BY _____ DATE _____

HYDROLOGY - "3 VARIABLE USGS REGRESSION EQUATION METHOD"
Deadman's Brook
Urbanization of USGS StreamStats Flows

A = WATERSHED AREA INFORMATION (SQ. MILES)

DRAINAGE AREA: 2.3 SQ. MILES

BDF = BASIN DEVELOPMENT FACTOR

	CHANNEL MODIFICATIONS	CHANNEL LINING	STORM SEWERS	CURB AND GUTTER
UPPER THIRD	0	0	0	0
MIDDLE THIRD	1	1	1	0
LOWER THIRD	1	1	1	1

BDF = 7

RQx = REGRESSION EQUATION FLOWS (CFS)

Q2 = 102 CFS
Q10 = 221 CFS
Q25 = 294 CFS
Q50 = 353 CFS
Q100 = 412 CFS
Q500 = 579 CFS

3 PARAMETERS NEEDED FOR REGRESSION EQUATION

Drainage Area = 2.3 Sq. Miles
Assigned BDF = 7
RQ2 Storm Flow = 102 CFS
RQ10 Storm Flow = 221 CFS
RQ25 Storm Flow = 294 CFS
RQ50 Storm Flow = 353 CFS
RQ100 Storm Flow = 412 CFS
RQ500 Storm Flow = 579 CFS

USGS 3 PARAMETER REGRESSION EQUATION FLOWS

UQ 2 = 210 CFS
UQ 10 = 410 CFS
UQ 25 = 500 CFS
UQ 50 = 590 CFS
UQ 100 = 690 CFS
UQ 500 = 920 CFS

REFERENCES

"Regression Equation
for estimating Flood
Flows for the 2-,10-,
25-,50-,100-, and
500-Year Recurrence
Intervals in CT"

USGS StreamStats Flows

"Regression Equation
for estimating Flood
Flows for the 2-,10-,



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PROJECT: Deadman's Brook
Westport, CT

PREPARED BY Nick Parenty DATE _____
CHECKED BY _____ DATE _____

HYDROLOGY - "7 VARIABLE USGS REGRESSION EQUATION METHOD"
Deadman's Brook
Urbanization of USGS StreamStats Flows

A = WATERSHED AREA INFORMATION (SQ. MILES)

DRAINAGE AREA: 2.3 SQ. MILES

SL = MAIN CHANNEL SLOPE:

10% POINT IS AT 2529 FT.
85% POINT IS AT 21497 FT.

ELEVATION AT 10% POINT 15 FT.
ELEVATION AT 85% POINT 225 FT.

CORRESPONDING LENGTH = 75% OF TOTAL FLOW PATH = 3.6 MILES

EFFECTIVE SLOPE = DIFFERENCE IN ELEV. DIVIDED BY CORRESPONDING LENGTH
EFFECTIVE SLOPE = 58.6 FT./MILE
MAXIMUM VALUE FOR EFFECTIVE SLOPE = 70.0 FT./MILE

R₂ = 2-HOUR 2-YEAR RAINFALL RATE FOR CT (INCHES)

R₂ = 1.64

ST = DRAINAGE BASIN STORAGE

TOTAL AREA OF STORAGE = 334680 SQ.FT.

% OF TOTAL AREA = 0.52 %

BDF = BASIN DEVELOPMENT FACTOR

	CHANNEL MODIFICATIONS	CHANNEL LINING	STORM SEWERS	CURB AND GUTTER
UPPER THIRD	0	0	0	0
MIDDLE THIRD	1	1	1	0
LOWER THIRD	1	1	1	1

BDF = 7

IA = IMPERVIOUS AREA (%)

TOTAL AREA OF IMPERVIOUS = 7519720 SQ.FT.

IA= 11.7 %

REFERENCES

NOAA Atlas 14

USGS Map Areas

"Regression Equation
for estimating Flood
Flows for the 2-,10-,
25-,50-,100-, and
500-Year Recurrence
Intervals in CT"

USGS Map Areas



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PROJECT: Deadman's Brook
Westport, CT

PREPARED BY Nick Parenty DATE _____
CHECKED BY _____ DATE _____

HYDROLOGY - "7 VARIABLE USGS REGRESSION EQUATION METHOD"
Deadman's Brook
Urbanization of USGS StreamStats Flows

RQx = REGRESSION EQUATION FLOWS (CFS)

Q2 = 102 CFS
Q10 = 221 CFS
Q25 = 294 CFS
Q50 = 353 CFS
Q100 = 412 CFS
Q500 = 579 CFS

USGS StreamStats Flows

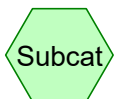
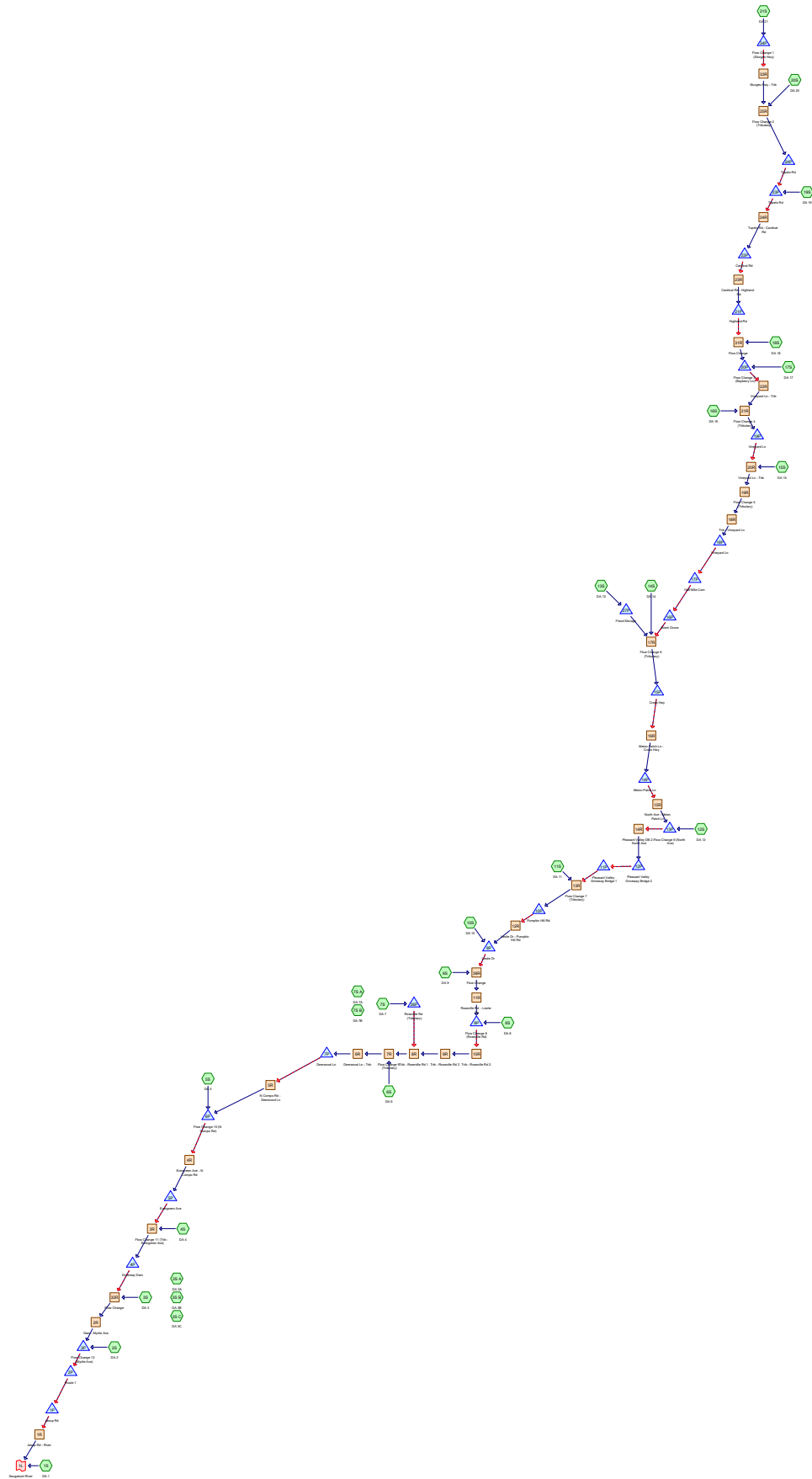
7 PARAMETERS NEEDED FOR REGRESSION EQUATION

Drainage Area = 2.3 Sq. Miles
Channel Slope= 58.6 ft/mi.
Rainfall (inches)= 1.64 inches
Drainage Basin Sto: 0.5 %
Assigned BDF = 7
Impervious Area= 11.7 %
RQ2 Storm Flow = 102 CFS
RQ10 Storm Flow = 221 CFS
RQ25 Storm Flow = 294 CFS
RQ50 Storm Flow = 353 CFS
RQ100 Storm Flow = 412 CFS
RQ500 Storm Flow = 579 CFS

"Regression Equation
for estimating Flood
Flows for the 2-,10-,
25-,50-,100-, and
500-Year Recurrence
Intervals in CT"

USGS 7 PARAMETER REGRESSION EQUATION FLOWS

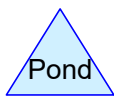
UQ 2 = 270 CFS
UQ 10 = 520 CFS
UQ 25 = 650 CFS
UQ 50 = 770 CFS
UQ 100 = 890 CFS
UQ 500 = 1160 CFS



Subcat



Reach



Pond



Link

Routing Diagram for 16C6016-Existing

Prepared by BL Companies

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16C6016-Existing*CT - Norwalk 24-hr S1 2-yr Rainfall=3.50"*

Prepared by BL Companies

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Page 2

Time span=2.00-72.00 hrs, dt=0.03 hrs, 2334 points x 5
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment1S: DA 1	Runoff Area=5,463,090 sf 70.37% Impervious Runoff Depth=2.02" Flow Length=2,288' Tc=34.7 min CN=85 Runoff=145.43 cfs 21.074 af
Subcatchment2S: DA 2	Runoff Area=2,591,780 sf 30.87% Impervious Runoff Depth=0.80" Flow Length=1,764' Tc=39.7 min CN=66 Runoff=20.98 cfs 3.968 af
Subcatchment3S: DA 3	Runoff Area=745,440 sf 12.61% Impervious Runoff Depth=0.17" Flow Length=1,365' Tc=51.1 min CN=49 Runoff=0.35 cfs 0.243 af
Subcatchment3S A: DA 3A	Runoff Area=3,945,710 sf 24.42% Impervious Runoff Depth=1.01" Flow Length=1,600' Tc=89.7 min CN=70 Runoff=26.53 cfs 7.610 af
Subcatchment3S B: DA 3B	Runoff Area=1,364,980 sf 16.73% Impervious Runoff Depth=0.71" Flow Length=3,296' Tc=54.5 min CN=64 Runoff=7.66 cfs 1.841 af
Subcatchment3S C: DA 3C	Runoff Area=2,693,890 sf 16.18% Impervious Runoff Depth=0.95" Flow Length=1,054' Tc=24.6 min CN=69 Runoff=36.25 cfs 4.916 af
Subcatchment4S: DA 4	Runoff Area=8,004,580 sf 20.34% Impervious Runoff Depth=0.95" Flow Length=1,600' Tc=89.7 min CN=69 Runoff=50.13 cfs 14.608 af
Subcatchment5S: DA 5	Runoff Area=6,170,400 sf 17.29% Impervious Runoff Depth=0.75" Flow Length=3,139' Tc=35.6 min CN=65 Runoff=48.54 cfs 8.877 af
Subcatchment6S: DA 6	Runoff Area=1,301,860 sf 12.93% Impervious Runoff Depth=0.85" Flow Length=958' Tc=22.9 min CN=67 Runoff=15.58 cfs 2.117 af
Subcatchment7S: DA 7	Runoff Area=3,898,350 sf 15.48% Impervious Runoff Depth=1.37" Flow Length=4,667' Tc=51.5 min CN=76 Runoff=54.09 cfs 10.182 af
Subcatchment7S A: DA 7A	Runoff Area=1,084,650 sf 20.23% Impervious Runoff Depth=1.24" Flow Length=2,687' Tc=48.2 min CN=74 Runoff=13.90 cfs 2.573 af
Subcatchment7S B: DA 7B	Runoff Area=1,529,890 sf 18.31% Impervious Runoff Depth=1.43" Flow Length=2,715' Tc=43.9 min CN=77 Runoff=24.59 cfs 4.187 af
Subcatchment8S: DA 8	Runoff Area=3,171,590 sf 13.17% Impervious Runoff Depth=0.95" Flow Length=2,177' Tc=60.6 min CN=69 Runoff=25.46 cfs 5.788 af
Subcatchment9S: DA 9	Runoff Area=396,960 sf 13.68% Impervious Runoff Depth=1.71" Flow Length=1,255' Tc=29.7 min CN=81 Runoff=9.68 cfs 1.298 af
Subcatchment10S: DA 10	Runoff Area=3,842,170 sf 15.53% Impervious Runoff Depth=1.18" Flow Length=4,307' Tc=52.2 min CN=73 Runoff=44.32 cfs 8.671 af
Subcatchment11S: DA 11	Runoff Area=2,858,420 sf 17.44% Impervious Runoff Depth=1.18" Flow Length=919' Tc=103.2 min CN=73 Runoff=21.41 cfs 6.451 af
Subcatchment12S: DA 12	Runoff Area=3,888,950 sf 14.84% Impervious Runoff Depth=1.30" Flow Length=3,270' Tc=37.9 min CN=75 Runoff=60.84 cfs 9.685 af

16C6016-Existing

CT - Norwalk 24-hr S1 2-yr Rainfall=3.50"

Prepared by BL Companies

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Page 3

Subcatchment13S: DA 13	Runoff Area=1,678,500 sf 18.60% Impervious Runoff Depth=0.80" Flow Length=2,224' Tc=72.7 min CN=66 Runoff=9.50 cfs 2.570 af
Subcatchment14S: DA 14	Runoff Area=2,522,660 sf 13.88% Impervious Runoff Depth=0.95" Flow Length=1,623' Tc=51.5 min CN=69 Runoff=22.45 cfs 4.604 af
Subcatchment15S: DA 15	Runoff Area=1,360,960 sf 15.02% Impervious Runoff Depth=1.18" Flow Length=1,447' Tc=62.3 min CN=73 Runoff=14.14 cfs 3.071 af
Subcatchment16S: DA 16	Runoff Area=2,727,030 sf 10.43% Impervious Runoff Depth=0.66" Flow Length=2,368' Tc=100.7 min CN=63 Runoff=9.54 cfs 3.441 af
Subcatchment17S: DA 17	Runoff Area=234,970 sf 4.34% Impervious Runoff Depth=0.75" Flow Length=926' Tc=67.9 min CN=65 Runoff=1.28 cfs 0.338 af
Subcatchment18S: DA 18	Runoff Area=2,569,620 sf 15.46% Impervious Runoff Depth=1.12" Flow Length=2,207' Tc=167.5 min CN=72 Runoff=13.00 cfs 5.510 af
Subcatchment19S: DA 19	Runoff Area=1,959,990 sf 14.78% Impervious Runoff Depth=0.95" Flow Length=998' Tc=68.2 min CN=69 Runoff=14.63 cfs 3.577 af
Subcatchment20S: DA 20	Runoff Area=3,181,660 sf 6.78% Impervious Runoff Depth=0.85" Flow Length=2,232' Tc=96.8 min CN=67 Runoff=16.21 cfs 5.174 af
Subcatchment21S: DA 21	Runoff Area=3,559,430 sf 5.66% Impervious Runoff Depth=1.12" Flow Length=2,337' Tc=142.9 min CN=72 Runoff=19.78 cfs 7.633 af
Reach 1R: Jesup Rd - River	Avg. Flow Depth=1.50' Max Vel=2.10 fps Inflow=284.13 cfs 105.899 af L=1,005.0' S=0.0011 ' ' Capacity=23,631.23 cfs Outflow=281.91 cfs 105.899 af
Reach 2R: Dam - Myrtle Ave	Avg. Flow Depth=2.49' Max Vel=5.93 fps Inflow=275.89 cfs 101.936 af L=1,130.0' S=0.0075 ' ' Capacity=45,055.89 cfs Outflow=275.31 cfs 101.936 af
Reach 3R: Flow Change 11 (Trib -	Avg. Flow Depth=3.33' Max Vel=3.58 fps Inflow=282.55 cfs 101.806 af L=522.0' S=0.0038 ' ' Capacity=18,789.78 cfs Outflow=281.72 cfs 101.806 af
Reach 4R: Evergreen Ave - N Compo Rd	Avg. Flow Depth=2.62' Max Vel=6.65 fps Inflow=237.67 cfs 87.198 af L=853.0' S=0.0136 ' ' Capacity=13,648.48 cfs Outflow=237.21 cfs 87.198 af
Reach 5R: N Compo Rd - Deerwood Ln	Avg. Flow Depth=1.60' Max Vel=9.68 fps Inflow=209.25 cfs 78.322 af L=1,603.0' S=0.0277 ' ' Capacity=43,905.71 cfs Outflow=208.88 cfs 78.322 af
Reach 6R: Deerwood Ln - Trib	Avg. Flow Depth=1.81' Max Vel=10.21 fps Inflow=209.87 cfs 78.327 af L=100.0' S=0.0450 ' ' Capacity=52,215.56 cfs Outflow=209.86 cfs 78.327 af
Reach 7R: Flow Change 9 (Tributary)	Inflow=209.87 cfs 78.327 af Outflow=209.87 cfs 78.327 af
Reach 8R: Trib - Roseville Rd 1	Avg. Flow Depth=0.95' Max Vel=10.29 fps Inflow=204.67 cfs 76.210 af L=131.0' S=0.0519 ' ' Capacity=189,609.23 cfs Outflow=204.67 cfs 76.210 af
Reach 9R: Trib - Roseville Rd 2	Avg. Flow Depth=0.93' Max Vel=19.51 fps Inflow=161.04 cfs 66.028 af L=101.0' S=0.2208 ' ' Capacity=8,554.43 cfs Outflow=161.04 cfs 66.028 af

16C6016-Existing*CT - Norwalk 24-hr S1 2-yr Rainfall=3.50"*

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Reach 10R: Trib - Roseville Rd 3	Avg. Flow Depth=0.87' Max Vel=5.65 fps Inflow=161.07 cfs 66.028 af L=239.0' S=0.0168 '/' Capacity=5,983.07 cfs Outflow=161.04 cfs 66.028 af
Reach 11R: Roseville Rd - Leslie Dr	Avg. Flow Depth=1.35' Max Vel=5.12 fps Inflow=139.27 cfs 60.241 af L=981.0' S=0.0139 '/' Capacity=97,574.36 cfs Outflow=137.35 cfs 60.241 af
Reach 12R: Leslie Dr - Pumpkin Hill Rd	Avg. Flow Depth=0.85' Max Vel=8.19 fps Inflow=101.51 cfs 50.274 af L=386.0' S=0.0392 '/' Capacity=26,732.62 cfs Outflow=101.51 cfs 50.274 af
Reach 13R: Flow Change 7 (Tributary)	Inflow=101.53 cfs 50.277 af Outflow=101.53 cfs 50.277 af
Reach 14R: Pleasant Valley DB 2 - North Ave	Avg. Flow Depth=0.25' Max Vel=4.51 fps Inflow=85.88 cfs 44.012 af L=238.0' S=0.0508 '/' Capacity=44,269.29 cfs Outflow=85.88 cfs 44.012 af
Reach 15R: North Ave - Melon Patch Ln	Avg. Flow Depth=1.43' Max Vel=4.07 fps Inflow=53.03 cfs 34.327 af L=619.0' S=0.0064 '/' Capacity=1,460.39 cfs Outflow=52.99 cfs 34.327 af
Reach 16R: Melon Patch Ln - Cross Hwy	Avg. Flow Depth=1.03' Max Vel=4.84 fps Inflow=53.09 cfs 34.328 af L=1,042.0' S=0.0115 '/' Capacity=1,748.35 cfs Outflow=53.03 cfs 34.328 af
Reach 17R: Flow Change 6 (Tributary)	Inflow=53.24 cfs 34.438 af Outflow=53.24 cfs 34.438 af
Reach 18R: Trib - Vineyard Ln	Avg. Flow Depth=1.81' Max Vel=1.98 fps Inflow=43.16 cfs 28.407 af L=600.0' S=0.0020 '/' Capacity=5,536.26 cfs Outflow=42.85 cfs 28.407 af
Reach 19R: Flow Change 5 (Tributary)	Inflow=43.16 cfs 28.407 af Outflow=43.16 cfs 28.407 af
Reach 20R: Vineyard Ln - Trib	Avg. Flow Depth=1.62' Max Vel=2.84 fps Inflow=43.17 cfs 28.407 af L=325.0' S=0.0031 '/' Capacity=1,274.13 cfs Outflow=43.16 cfs 28.407 af
Reach 21R: Flow Change 4 (Tributary)	Inflow=37.63 cfs 25.336 af Outflow=37.63 cfs 25.336 af
Reach 22R: Vineyard Ln - Trib	Avg. Flow Depth=0.88' Max Vel=2.47 fps Inflow=30.30 cfs 21.895 af L=284.0' S=0.0035 '/' Capacity=4,101.88 cfs Outflow=30.30 cfs 21.895 af
Reach 23R: Cardinal Rd - Highland Rd	Avg. Flow Depth=0.82' Max Vel=2.66 fps Inflow=16.84 cfs 16.049 af L=1,504.0' S=0.0048 '/' Capacity=12,543.77 cfs Outflow=16.82 cfs 16.049 af
Reach 24R: Tupelo Rd - Cardinal Rd	Avg. Flow Depth=0.97' Max Vel=3.34 fps Inflow=16.84 cfs 16.050 af L=705.0' S=0.0072 '/' Capacity=14,683.69 cfs Outflow=16.84 cfs 16.050 af
Reach 25R: Flow Change 2 (Tributary)	Inflow=16.42 cfs 12.515 af Outflow=16.42 cfs 12.515 af
Reach 31R: Flow Change	Inflow=29.80 cfs 21.557 af Outflow=29.80 cfs 21.557 af
Reach 32R: Flow Change	Inflow=275.89 cfs 101.936 af Outflow=275.89 cfs 101.936 af

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CT - Norwalk 24-hr S1 2-yr Rainfall=3.50"

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Reach 33R: Sturges Hwy - TribAvg. Flow Depth=1.18' Max Vel=0.37 fps Inflow=8.68 cfs 7.342 af
L=1,014.0' S=0.0002 '/' Capacity=1,687.45 cfs Outflow=8.56 cfs 7.341 af**Reach 38R: Flow Change**Inflow=139.27 cfs 60.241 af
Outflow=139.27 cfs 60.241 af**Pond 1P: Jesup Rd**Peak Elev=5.15' Storage=17,394 cf Inflow=284.34 cfs 105.904 af
Primary=284.13 cfs 105.899 af Secondary=0.00 cfs 0.000 af Outflow=284.13 cfs 105.899 af**Pond 2P: Route 1**Peak Elev=8.03' Storage=1,519 cf Inflow=284.31 cfs 105.904 af
Primary=284.34 cfs 105.904 af Secondary=0.00 cfs 0.000 af Outflow=284.34 cfs 105.904 af**Pond 3P: Flow Change 12 (Myrtle Ave)**Peak Elev=11.90' Storage=13,172 cf Inflow=284.35 cfs 105.904 af
Primary=267.21 cfs 105.397 af Secondary=17.10 cfs 0.508 af Outflow=284.31 cfs 105.904 af**Pond 4P: Driveway Dam**Peak Elev=25.11' Storage=139,355 cf Inflow=281.72 cfs 101.806 af
Primary=87.33 cfs 46.538 af Secondary=188.23 cfs 55.155 af Outflow=275.56 cfs 101.694 af**Pond 5P: Evergreen Ave**Peak Elev=28.60' Storage=22,761 cf Inflow=237.21 cfs 87.198 af
Primary=235.75 cfs 87.198 af Secondary=0.00 cfs 0.000 af Outflow=235.75 cfs 87.198 af**Pond 6P: Flow Change 10 (N Compo Rd)**Peak Elev=40.05' Storage=1,034 cf Inflow=237.68 cfs 87.199 af
Primary=237.67 cfs 87.198 af Secondary=0.00 cfs 0.000 af Outflow=237.67 cfs 87.198 af**Pond 7P: Deerwood Ln**Peak Elev=84.88' Storage=13,727 cf Inflow=209.86 cfs 78.327 af
Primary=209.25 cfs 78.322 af Secondary=0.00 cfs 0.000 af Outflow=209.25 cfs 78.322 af**Pond 8P: Flow Change 8 (Roseville Rd)**Peak Elev=128.62' Storage=369 cf Inflow=161.05 cfs 66.029 af
Primary=161.07 cfs 66.028 af Secondary=0.00 cfs 0.000 af Outflow=161.07 cfs 66.028 af**Pond 9P: Leslie Dr**Peak Elev=143.56' Storage=7,516 cf Inflow=135.99 cfs 58.945 af
Primary=135.83 cfs 58.943 af Secondary=0.00 cfs 0.000 af Outflow=135.83 cfs 58.943 af**Pond 10P: Pumpkin Hill Rd**Peak Elev=159.10' Storage=4,402 cf Inflow=101.53 cfs 50.277 af
Primary=101.51 cfs 50.274 af Secondary=0.00 cfs 0.000 af Outflow=101.51 cfs 50.274 af**Pond 11P: Pleasant Valley Driveway Bridge 1**Peak Elev=164.94' Storage=48,569 cf Inflow=84.89 cfs 44.011 af
Primary=82.70 cfs 43.827 af Secondary=0.00 cfs 0.000 af Outflow=82.70 cfs 43.827 af**Pond 12P: Pleasant Valley Driveway Bridge 2**Peak Elev=166.93' Storage=19,578 cf Inflow=85.88 cfs 44.012 af
Primary=84.89 cfs 44.011 af Secondary=0.00 cfs 0.000 af Outflow=84.89 cfs 44.011 af**Pond 13P: Flow Change 6 (North Ave)**Peak Elev=177.40' Storage=1,440 cf Inflow=85.94 cfs 44.012 af
Primary=85.88 cfs 44.012 af Secondary=0.00 cfs 0.000 af Outflow=85.88 cfs 44.012 af**Pond 14P: Melon Patch Ln**Peak Elev=181.70' Storage=117 cf Inflow=53.03 cfs 34.328 af
Primary=53.03 cfs 34.327 af Secondary=0.00 cfs 0.000 af Outflow=53.03 cfs 34.327 af**Pond 15P: Cross Hwy**Peak Elev=193.66' Storage=14,081 cf Inflow=53.24 cfs 34.438 af
Primary=53.09 cfs 34.328 af Secondary=0.00 cfs 0.000 af Outflow=53.09 cfs 34.328 af**Pond 16P: Silent Grove**Peak Elev=192.19' Storage=270 cf Inflow=42.85 cfs 28.406 af
Primary=42.85 cfs 28.404 af Secondary=0.00 cfs 0.000 af Outflow=42.85 cfs 28.404 af

16C6016-Existing

CT - Norwalk 24-hr S1 2-yr Rainfall=3.50"

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Pond 17P: Half Mile Com

Peak Elev=193.70' Storage=261 cf Inflow=42.85 cfs 28.406 af
Primary=42.85 cfs 28.406 af Secondary=0.00 cfs 0.000 af Outflow=42.85 cfs 28.406 af

Pond 18P: Vineyard Ln

Peak Elev=194.84' Storage=417 cf Inflow=42.85 cfs 28.407 af
Primary=42.85 cfs 28.406 af Secondary=0.00 cfs 0.000 af Outflow=42.85 cfs 28.406 af

Pond 19P: Vineyard Ln

Peak Elev=197.19' Storage=290 cf Inflow=37.63 cfs 25.336 af
Primary=37.63 cfs 25.336 af Secondary=0.00 cfs 0.000 af Outflow=37.63 cfs 25.336 af

Pond 20P: Flow Change 3 (Bayberry Ln)

Peak Elev=202.03' Storage=669 cf Inflow=30.32 cfs 21.895 af
Primary=30.30 cfs 21.895 af Secondary=0.00 cfs 0.000 af Outflow=30.30 cfs 21.895 af

Pond 21P: Highland Rd

Peak Elev=207.50' Storage=1,493 cf Inflow=16.82 cfs 16.049 af
Primary=16.64 cfs 16.037 af Secondary=0.18 cfs 0.010 af Outflow=16.82 cfs 16.047 af

Pond 22P: Cardinal Rd

Peak Elev=213.96' Storage=183 cf Inflow=16.84 cfs 16.050 af
Primary=16.84 cfs 16.049 af Secondary=0.00 cfs 0.000 af Outflow=16.84 cfs 16.049 af

Pond 23P: Tupelo Rd

Peak Elev=220.79' Storage=1,733 cf Inflow=18.29 cfs 16.050 af
Primary=16.84 cfs 16.050 af Secondary=0.00 cfs 0.000 af Outflow=16.84 cfs 16.050 af

Pond 24P: Tupelo Rd

Peak Elev=221.74' Storage=68,179 cf Inflow=16.42 cfs 12.515 af
Primary=13.48 cfs 12.473 af Secondary=0.00 cfs 0.000 af Outflow=13.48 cfs 12.470 af

Pond 26P: Roseville Rd (Tributary)

Peak Elev=128.92' Storage=175 cf Inflow=54.09 cfs 10.182 af
Primary=54.04 cfs 10.182 af Secondary=0.00 cfs 0.000 af Outflow=54.04 cfs 10.182 af

Pond 27P: Flood Storage

Peak Elev=195.07' Storage=55,366 cf Inflow=9.50 cfs 2.570 af
Outflow=2.54 cfs 1.430 af

Pond 34P: Flow Change 1 (Sturges Hwy)

Peak Elev=225.71' Storage=107,535 cf Inflow=19.78 cfs 7.633 af
Primary=8.68 cfs 7.342 af Secondary=0.00 cfs 0.000 af Outflow=8.68 cfs 7.342 af

Link 1L: Saugatuck River

Inflow=315.02 cfs 126.973 af
Primary=315.02 cfs 126.973 af

16C6016-Existing*CT - Norwalk 24-hr S1 10-yr Rainfall=5.34"*

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Time span=2.00-72.00 hrs, dt=0.03 hrs, 2334 points x 5
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment1S: DA 1	Runoff Area=5,463,090 sf 70.37% Impervious Runoff Depth=3.68" Flow Length=2,288' Tc=34.7 min CN=85 Runoff=245.05 cfs 38.498 af
Subcatchment2S: DA 2	Runoff Area=2,591,780 sf 30.87% Impervious Runoff Depth=1.96" Flow Length=1,764' Tc=39.7 min CN=66 Runoff=55.22 cfs 9.734 af
Subcatchment3S: DA 3	Runoff Area=745,440 sf 12.61% Impervious Runoff Depth=0.78" Flow Length=1,365' Tc=51.1 min CN=49 Runoff=3.69 cfs 1.108 af
Subcatchment3S A: DA 3A	Runoff Area=3,945,710 sf 24.42% Impervious Runoff Depth=2.29" Flow Length=1,600' Tc=89.7 min CN=70 Runoff=61.28 cfs 17.300 af
Subcatchment3S B: DA 3B	Runoff Area=1,364,980 sf 16.73% Impervious Runoff Depth=1.81" Flow Length=3,296' Tc=54.5 min CN=64 Runoff=21.82 cfs 4.715 af
Subcatchment3S C: DA 3C	Runoff Area=2,693,890 sf 16.18% Impervious Runoff Depth=2.21" Flow Length=1,054' Tc=24.6 min CN=69 Runoff=85.71 cfs 11.379 af
Subcatchment4S: DA 4	Runoff Area=8,004,580 sf 20.34% Impervious Runoff Depth=2.21" Flow Length=1,600' Tc=89.7 min CN=69 Runoff=119.29 cfs 33.811 af
Subcatchment5S: DA 5	Runoff Area=6,170,400 sf 17.29% Impervious Runoff Depth=1.88" Flow Length=3,139' Tc=35.6 min CN=65 Runoff=133.22 cfs 22.237 af
Subcatchment6S: DA 6	Runoff Area=1,301,860 sf 12.93% Impervious Runoff Depth=2.04" Flow Length=958' Tc=22.9 min CN=67 Runoff=39.45 cfs 5.090 af
Subcatchment7S: DA 7	Runoff Area=3,898,350 sf 15.48% Impervious Runoff Depth=2.82" Flow Length=4,667' Tc=51.5 min CN=76 Runoff=107.80 cfs 21.018 af
Subcatchment7S A: DA 7A	Runoff Area=1,084,650 sf 20.23% Impervious Runoff Depth=2.64" Flow Length=2,687' Tc=48.2 min CN=74 Runoff=28.99 cfs 5.475 af
Subcatchment7S B: DA 7B	Runoff Area=1,529,890 sf 18.31% Impervious Runoff Depth=2.91" Flow Length=2,715' Tc=43.9 min CN=77 Runoff=48.01 cfs 8.517 af
Subcatchment8S: DA 8	Runoff Area=3,171,590 sf 13.17% Impervious Runoff Depth=2.21" Flow Length=2,177' Tc=60.6 min CN=69 Runoff=60.30 cfs 13.397 af
Subcatchment9S: DA 9	Runoff Area=396,960 sf 13.68% Impervious Runoff Depth=3.29" Flow Length=1,255' Tc=29.7 min CN=81 Runoff=17.43 cfs 2.497 af
Subcatchment10S: DA 10	Runoff Area=3,842,170 sf 15.53% Impervious Runoff Depth=2.55" Flow Length=4,307' Tc=52.2 min CN=73 Runoff=94.01 cfs 18.744 af
Subcatchment11S: DA 11	Runoff Area=2,858,420 sf 17.44% Impervious Runoff Depth=2.55" Flow Length=919' Tc=103.2 min CN=73 Runoff=45.98 cfs 13.945 af
Subcatchment12S: DA 12	Runoff Area=3,888,950 sf 14.84% Impervious Runoff Depth=2.73" Flow Length=3,270' Tc=37.9 min CN=75 Runoff=123.11 cfs 20.294 af

Subcatchment13S: DA 13

Runoff Area=1,678,500 sf 18.60% Impervious Runoff Depth=1.96"
Flow Length=2,224' Tc=72.7 min CN=66 Runoff=25.00 cfs 6.304 af

Subcatchment14S: DA 14

Runoff Area=2,522,660 sf 13.88% Impervious Runoff Depth=2.21"
Flow Length=1,623' Tc=51.5 min CN=69 Runoff=53.33 cfs 10.656 af

Subcatchment15S: DA 15

Runoff Area=1,360,960 sf 15.02% Impervious Runoff Depth=2.55"
Flow Length=1,447' Tc=62.3 min CN=73 Runoff=30.20 cfs 6.639 af

Subcatchment16S: DA 16

Runoff Area=2,727,030 sf 10.43% Impervious Runoff Depth=1.73"
Flow Length=2,368' Tc=100.7 min CN=63 Runoff=28.31 cfs 9.017 af

Subcatchment17S: DA 17

Runoff Area=234,970 sf 4.34% Impervious Runoff Depth=1.88"
Flow Length=926' Tc=67.9 min CN=65 Runoff=3.49 cfs 0.847 af

Subcatchment18S: DA 18

Runoff Area=2,569,620 sf 15.46% Impervious Runoff Depth=2.46"
Flow Length=2,207' Tc=167.5 min CN=72 Runoff=28.88 cfs 12.107 af

Subcatchment19S: DA 19

Runoff Area=1,959,990 sf 14.78% Impervious Runoff Depth=2.21"
Flow Length=998' Tc=68.2 min CN=69 Runoff=34.66 cfs 8.279 af

Subcatchment20S: DA 20

Runoff Area=3,181,660 sf 6.78% Impervious Runoff Depth=2.04"
Flow Length=2,232' Tc=96.8 min CN=67 Runoff=41.31 cfs 12.439 af

Subcatchment21S: DA 21

Runoff Area=3,559,430 sf 5.66% Impervious Runoff Depth=2.46"
Flow Length=2,337' Tc=142.9 min CN=72 Runoff=44.12 cfs 16.771 af

Reach 1R: Jesup Rd - River

Avg. Flow Depth=2.39' Max Vel=2.83 fps Inflow=608.71 cfs 243.840 af
L=1,005.0' S=0.0011 ' ' Capacity=23,631.23 cfs Outflow=607.11 cfs 243.840 af

Reach 2R: Dam - Myrtle Ave

Avg. Flow Depth=3.66' Max Vel=6.17 fps Inflow=595.97 cfs 234.112 af
L=1,130.0' S=0.0075 ' ' Capacity=45,055.89 cfs Outflow=594.56 cfs 234.111 af

Reach 3R: Flow Change 11 (Trib -

Avg. Flow Depth=4.21' Max Vel=3.58 fps Inflow=602.14 cfs 233.116 af
L=522.0' S=0.0038 ' ' Capacity=18,789.78 cfs Outflow=601.73 cfs 233.116 af

Reach 4R: Evergreen Ave - N Compo Rd

Avg. Flow Depth=3.54' Max Vel=6.85 fps Inflow=485.75 cfs 199.305 af
L=853.0' S=0.0136 ' ' Capacity=13,648.48 cfs Outflow=485.47 cfs 199.305 af

Reach 5R: N Compo Rd - Deerwood Ln

Avg. Flow Depth=2.37' Max Vel=11.32 fps Inflow=424.69 cfs 177.070 af
L=1,603.0' S=0.0277 ' ' Capacity=43,905.71 cfs Outflow=424.00 cfs 177.070 af

Reach 6R: Deerwood Ln - Trib

Avg. Flow Depth=2.51' Max Vel=10.78 fps Inflow=432.74 cfs 177.075 af
L=100.0' S=0.0450 ' ' Capacity=52,215.56 cfs Outflow=432.83 cfs 177.075 af

Reach 7R: Flow Change 9 (Tributary)

Inflow=432.74 cfs 177.075 af
Outflow=432.74 cfs 177.075 af

Reach 8R: Trib - Roseville Rd 1

Avg. Flow Depth=1.46' Max Vel=13.36 fps Inflow=421.77 cfs 171.985 af
L=131.0' S=0.0519 ' ' Capacity=189,609.23 cfs Outflow=421.83 cfs 171.985 af

Reach 9R: Trib - Roseville Rd 2

Avg. Flow Depth=1.45' Max Vel=25.28 fps Inflow=337.68 cfs 150.968 af
L=101.0' S=0.2208 ' ' Capacity=8,554.43 cfs Outflow=337.57 cfs 150.968 af

16C6016-Existing*CT - Norwalk 24-hr S1 10-yr Rainfall=5.34"*

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Reach 10R: Trib - Roseville Rd 3	Avg. Flow Depth=1.36' Max Vel=7.46 fps Inflow=337.64 cfs 150.968 af L=239.0' S=0.0168 '/' Capacity=5,983.07 cfs Outflow=337.68 cfs 150.968 af
Reach 11R: Roseville Rd - Leslie Dr	Avg. Flow Depth=1.63' Max Vel=5.13 fps Inflow=283.54 cfs 137.571 af L=981.0' S=0.0139 '/' Capacity=97,574.36 cfs Outflow=281.60 cfs 137.571 af
Reach 12R: Leslie Dr - Pumpkin Hill Rd	Avg. Flow Depth=1.35' Max Vel=10.78 fps Inflow=219.37 cfs 116.333 af L=386.0' S=0.0392 '/' Capacity=26,732.62 cfs Outflow=219.37 cfs 116.333 af
Reach 13R: Flow Change 7 (Tributary)	Inflow=227.02 cfs 116.336 af Outflow=227.02 cfs 116.336 af
Reach 14R: Pleasant Valley DB 2 - North	Avg. Flow Depth=0.41' Max Vel=6.12 fps Inflow=190.30 cfs 102.578 af L=238.0' S=0.0508 '/' Capacity=44,269.29 cfs Outflow=190.29 cfs 102.578 af
Reach 15R: North Ave - Melon Patch Ln	Avg. Flow Depth=2.34' Max Vel=4.57 fps Inflow=136.06 cfs 82.284 af L=619.0' S=0.0064 '/' Capacity=1,460.39 cfs Outflow=136.00 cfs 82.284 af
Reach 16R: Melon Patch Ln - Cross Hwy	Avg. Flow Depth=1.77' Max Vel=6.11 fps Inflow=136.17 cfs 82.284 af L=1,042.0' S=0.0115 '/' Capacity=1,748.35 cfs Outflow=136.09 cfs 82.284 af
Reach 17R: Flow Change 6 (Tributary)	Inflow=138.40 cfs 82.395 af Outflow=138.40 cfs 82.395 af
Reach 18R: Trib - Vineyard Ln	Avg. Flow Depth=2.30' Max Vel=1.98 fps Inflow=94.78 cfs 66.578 af L=600.0' S=0.0020 '/' Capacity=5,536.26 cfs Outflow=94.28 cfs 66.578 af
Reach 19R: Flow Change 5 (Tributary)	Inflow=94.78 cfs 66.578 af Outflow=94.78 cfs 66.578 af
Reach 20R: Vineyard Ln - Trib	Avg. Flow Depth=2.39' Max Vel=3.00 fps Inflow=94.82 cfs 66.578 af L=325.0' S=0.0031 '/' Capacity=1,274.13 cfs Outflow=94.78 cfs 66.578 af
Reach 21R: Flow Change 4 (Tributary)	Inflow=80.00 cfs 59.939 af Outflow=80.00 cfs 59.939 af
Reach 22R: Vineyard Ln - Trib	Avg. Flow Depth=1.34' Max Vel=2.68 fps Inflow=67.93 cfs 50.922 af L=284.0' S=0.0035 '/' Capacity=4,101.88 cfs Outflow=67.62 cfs 50.922 af
Reach 23R: Cardinal Rd - Highland Rd	Avg. Flow Depth=1.51' Max Vel=3.69 fps Inflow=49.22 cfs 37.971 af L=1,504.0' S=0.0048 '/' Capacity=12,543.77 cfs Outflow=46.20 cfs 37.970 af
Reach 24R: Tupelo Rd - Cardinal Rd	Avg. Flow Depth=1.84' Max Vel=4.05 fps Inflow=55.50 cfs 37.972 af L=705.0' S=0.0072 '/' Capacity=14,683.69 cfs Outflow=49.11 cfs 37.971 af
Reach 25R: Flow Change 2 (Tributary)	Inflow=45.02 cfs 28.916 af Outflow=45.02 cfs 28.916 af
Reach 31R: Flow Change	Inflow=67.53 cfs 50.075 af Outflow=67.53 cfs 50.075 af
Reach 32R: Flow Change	Inflow=595.97 cfs 234.112 af Outflow=595.97 cfs 234.112 af

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CT - Norwalk 24-hr S1 10-yr Rainfall=5.34"

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Reach 33R: Sturges Hwy - TribAvg. Flow Depth=1.74' Max Vel=0.37 fps Inflow=31.36 cfs 16.479 af
L=1,014.0' S=0.0002 ' Capacity=1,687.45 cfs Outflow=21.72 cfs 16.477 af**Reach 38R: Flow Change**Inflow=283.54 cfs 137.571 af
Outflow=283.54 cfs 137.571 af**Pond 1P: Jesup Rd**Peak Elev=8.37' Storage=81,948 cf Inflow=612.69 cfs 243.845 af
Primary=608.71 cfs 243.840 af Secondary=0.00 cfs 0.000 af Outflow=608.71 cfs 243.840 af**Pond 2P: Route 1**Peak Elev=10.86' Storage=16,409 cf Inflow=614.29 cfs 243.845 af
Primary=612.69 cfs 243.845 af Secondary=0.00 cfs 0.000 af Outflow=612.69 cfs 243.845 af**Pond 3P: Flow Change 12 (Myrtle Ave)**Peak Elev=12.62' Storage=28,661 cf Inflow=614.85 cfs 243.845 af
Primary=271.98 cfs 196.562 af Secondary=390.51 cfs 47.283 af Outflow=614.29 cfs 243.845 af**Pond 4P: Driveway Dam**Peak Elev=26.94' Storage=298,577 cf Inflow=601.73 cfs 233.116 af
Primary=163.89 cfs 86.462 af Secondary=429.30 cfs 146.542 af Outflow=593.19 cfs 233.004 af**Pond 5P: Evergreen Ave**Peak Elev=31.27' Storage=100,505 cf Inflow=485.47 cfs 199.305 af
Primary=375.88 cfs 191.900 af Secondary=113.99 cfs 7.405 af Outflow=484.89 cfs 199.305 af**Pond 6P: Flow Change 10 (N Compo Rd)**Peak Elev=42.59' Storage=12,443 cf Inflow=487.24 cfs 199.306 af
Primary=485.75 cfs 199.305 af Secondary=0.00 cfs 0.000 af Outflow=485.75 cfs 199.305 af**Pond 7P: Deerwood Ln**Peak Elev=87.17' Storage=66,584 cf Inflow=432.83 cfs 177.075 af
Primary=379.39 cfs 173.939 af Secondary=45.30 cfs 3.130 af Outflow=424.69 cfs 177.070 af**Pond 8P: Flow Change 8 (Roseville Rd)**Peak Elev=133.23' Storage=24,763 cf Inflow=338.47 cfs 150.968 af
Primary=308.11 cfs 150.145 af Secondary=29.53 cfs 0.823 af Outflow=337.64 cfs 150.968 af**Pond 9P: Leslie Dr**Peak Elev=145.19' Storage=21,657 cf Inflow=277.18 cfs 135.077 af
Primary=185.24 cfs 124.631 af Secondary=91.91 cfs 10.444 af Outflow=277.15 cfs 135.075 af**Pond 10P: Pumpkin Hill Rd**Peak Elev=163.56' Storage=74,637 cf Inflow=227.02 cfs 116.336 af
Primary=215.31 cfs 116.262 af Secondary=4.07 cfs 0.071 af Outflow=219.37 cfs 116.333 af**Pond 11P: Pleasant Valley Driveway Bridge 1**Peak Elev=166.16' Storage=77,768 cf Inflow=189.53 cfs 102.576 af
Primary=129.84 cfs 95.482 af Secondary=59.45 cfs 6.910 af Outflow=189.29 cfs 102.391 af**Pond 12P: Pleasant Valley Driveway Bridge 2**Peak Elev=169.18' Storage=76,374 cf Inflow=190.29 cfs 102.578 af
Primary=142.82 cfs 98.714 af Secondary=47.45 cfs 3.862 af Outflow=189.53 cfs 102.576 af**Pond 13P: Flow Change 6 (North Ave)**Peak Elev=179.88' Storage=19,071 cf Inflow=196.38 cfs 102.578 af
Primary=190.30 cfs 102.578 af Secondary=0.00 cfs 0.000 af Outflow=190.30 cfs 102.578 af**Pond 14P: Melon Patch Ln**Peak Elev=183.32' Storage=2,250 cf Inflow=136.09 cfs 82.284 af
Primary=136.06 cfs 82.284 af Secondary=0.00 cfs 0.000 af Outflow=136.06 cfs 82.284 af**Pond 15P: Cross Hwy**Peak Elev=195.20' Storage=29,079 cf Inflow=138.40 cfs 82.395 af
Primary=136.17 cfs 82.284 af Secondary=0.00 cfs 0.000 af Outflow=136.17 cfs 82.284 af**Pond 16P: Silent Grove**Peak Elev=193.06' Storage=513 cf Inflow=94.28 cfs 66.576 af
Primary=94.28 cfs 66.575 af Secondary=0.00 cfs 0.000 af Outflow=94.28 cfs 66.575 af

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Pond 17P: Half Mile ComPeak Elev=194.86' Storage=864 cf Inflow=94.28 cfs 66.577 af
Primary=94.28 cfs 66.576 af Secondary=0.00 cfs 0.000 af Outflow=94.28 cfs 66.576 af**Pond 18P: Vineyard Ln**Peak Elev=196.06' Storage=1,506 cf Inflow=94.28 cfs 66.578 af
Primary=94.28 cfs 66.577 af Secondary=0.00 cfs 0.000 af Outflow=94.28 cfs 66.577 af**Pond 19P: Vineyard Ln**Peak Elev=198.21' Storage=1,121 cf Inflow=80.00 cfs 59.939 af
Primary=80.04 cfs 59.939 af Secondary=0.00 cfs 0.000 af Outflow=80.04 cfs 59.939 af**Pond 20P: Flow Change 3 (Bayberry Ln)**Peak Elev=203.36' Storage=3,875 cf Inflow=68.30 cfs 50.922 af
Primary=40.71 cfs 43.180 af Secondary=27.21 cfs 7.742 af Outflow=67.93 cfs 50.922 af**Pond 21P: Highland Rd**Peak Elev=207.64' Storage=1,780 cf Inflow=46.20 cfs 37.970 af
Primary=17.36 cfs 25.155 af Secondary=28.83 cfs 12.813 af Outflow=46.19 cfs 37.968 af**Pond 22P: Cardinal Rd**Peak Elev=215.34' Storage=507 cf Inflow=49.11 cfs 37.971 af
Primary=49.22 cfs 37.971 af Secondary=0.00 cfs 0.000 af Outflow=49.22 cfs 37.971 af**Pond 23P: Tupelo Rd**Peak Elev=224.33' Storage=83,806 cf Inflow=101.96 cfs 37.926 af
Primary=29.91 cfs 34.872 af Secondary=26.38 cfs 3.100 af Outflow=55.50 cfs 37.926 af**Pond 24P: Tupelo Rd**Peak Elev=224.33' Storage=179,578 cf Inflow=45.02 cfs 28.916 af
Primary=18.59 cfs 13.708 af Secondary=93.08 cfs 15.939 af Outflow=95.35 cfs 28.870 af**Pond 26P: Roseville Rd (Tributary)**Peak Elev=129.71' Storage=338 cf Inflow=107.80 cfs 21.018 af
Primary=107.75 cfs 21.017 af Secondary=0.00 cfs 0.000 af Outflow=107.75 cfs 21.017 af**Pond 27P: Flood Storage**Peak Elev=195.26' Storage=72,201 cf Inflow=25.00 cfs 6.304 af
Outflow=18.69 cfs 5.164 af**Pond 34P: Flow Change 1 (Sturges Hwy)**Peak Elev=226.52' Storage=227,942 cf Inflow=44.12 cfs 16.771 af
Primary=10.68 cfs 13.276 af Secondary=21.28 cfs 3.203 af Outflow=31.36 cfs 16.479 af**Link 1L: Saugatuck River**Inflow=658.66 cfs 282.338 af
Primary=658.66 cfs 282.338 af

Time span=2.00-72.00 hrs, dt=0.03 hrs, 2334 points x 5
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment1S: DA 1	Runoff Area=5,463,090 sf 70.37% Impervious Runoff Depth=4.77" Flow Length=2,288' Tc=34.7 min CN=85 Runoff=307.98 cfs 49.816 af
Subcatchment2S: DA 2	Runoff Area=2,591,780 sf 30.87% Impervious Runoff Depth=2.81" Flow Length=1,764' Tc=39.7 min CN=66 Runoff=79.41 cfs 13.928 af
Subcatchment3S: DA 3	Runoff Area=745,440 sf 12.61% Impervious Runoff Depth=1.31" Flow Length=1,365' Tc=51.1 min CN=49 Runoff=7.40 cfs 1.870 af
Subcatchment3S A: DA 3A	Runoff Area=3,945,710 sf 24.42% Impervious Runoff Depth=3.20" Flow Length=1,600' Tc=89.7 min CN=70 Runoff=84.95 cfs 24.147 af
Subcatchment3S B: DA 3B	Runoff Area=1,364,980 sf 16.73% Impervious Runoff Depth=2.62" Flow Length=3,296' Tc=54.5 min CN=64 Runoff=32.01 cfs 6.839 af
Subcatchment3S C: DA 3C	Runoff Area=2,693,890 sf 16.18% Impervious Runoff Depth=3.10" Flow Length=1,054' Tc=24.6 min CN=69 Runoff=120.05 cfs 15.978 af
Subcatchment4S: DA 4	Runoff Area=8,004,580 sf 20.34% Impervious Runoff Depth=3.10" Flow Length=1,600' Tc=89.7 min CN=69 Runoff=166.55 cfs 47.476 af
Subcatchment5S: DA 5	Runoff Area=6,170,400 sf 17.29% Impervious Runoff Depth=2.71" Flow Length=3,139' Tc=35.6 min CN=65 Runoff=193.33 cfs 32.033 af
Subcatchment6S: DA 6	Runoff Area=1,301,860 sf 12.93% Impervious Runoff Depth=2.91" Flow Length=958' Tc=22.9 min CN=67 Runoff=56.27 cfs 7.236 af
Subcatchment7S: DA 7	Runoff Area=3,898,350 sf 15.48% Impervious Runoff Depth=3.81" Flow Length=4,667' Tc=51.5 min CN=76 Runoff=142.90 cfs 28.389 af
Subcatchment7S A: DA 7A	Runoff Area=1,084,650 sf 20.23% Impervious Runoff Depth=3.60" Flow Length=2,687' Tc=48.2 min CN=74 Runoff=39.00 cfs 7.472 af
Subcatchment7S B: DA 7B	Runoff Area=1,529,890 sf 18.31% Impervious Runoff Depth=3.91" Flow Length=2,715' Tc=43.9 min CN=77 Runoff=63.28 cfs 11.445 af
Subcatchment8S: DA 8	Runoff Area=3,171,590 sf 13.17% Impervious Runoff Depth=3.10" Flow Length=2,177' Tc=60.6 min CN=69 Runoff=84.21 cfs 18.811 af
Subcatchment9S: DA 9	Runoff Area=396,960 sf 13.68% Impervious Runoff Depth=4.33" Flow Length=1,255' Tc=29.7 min CN=81 Runoff=22.42 cfs 3.290 af
Subcatchment10S: DA 10	Runoff Area=3,842,170 sf 15.53% Impervious Runoff Depth=3.50" Flow Length=4,307' Tc=52.2 min CN=73 Runoff=127.13 cfs 25.722 af
Subcatchment11S: DA 11	Runoff Area=2,858,420 sf 17.44% Impervious Runoff Depth=3.50" Flow Length=919' Tc=103.2 min CN=73 Runoff=62.27 cfs 19.136 af
Subcatchment12S: DA 12	Runoff Area=3,888,950 sf 14.84% Impervious Runoff Depth=3.70" Flow Length=3,270' Tc=37.9 min CN=75 Runoff=164.36 cfs 27.553 af

Subcatchment13S: DA 13

Runoff Area=1,678,500 sf 18.60% Impervious Runoff Depth=2.81"
Flow Length=2,224' Tc=72.7 min CN=66 Runoff=35.80 cfs 9.020 af

Subcatchment14S: DA 14

Runoff Area=2,522,660 sf 13.88% Impervious Runoff Depth=3.10"
Flow Length=1,623' Tc=51.5 min CN=69 Runoff=74.54 cfs 14.962 af

Subcatchment15S: DA 15

Runoff Area=1,360,960 sf 15.02% Impervious Runoff Depth=3.50"
Flow Length=1,447' Tc=62.3 min CN=73 Runoff=40.87 cfs 9.111 af

Subcatchment16S: DA 16

Runoff Area=2,727,030 sf 10.43% Impervious Runoff Depth=2.53"
Flow Length=2,368' Tc=100.7 min CN=63 Runoff=42.15 cfs 13.174 af

Subcatchment17S: DA 17

Runoff Area=234,970 sf 4.34% Impervious Runoff Depth=2.71"
Flow Length=926' Tc=67.9 min CN=65 Runoff=5.06 cfs 1.220 af

Subcatchment18S: DA 18

Runoff Area=2,569,620 sf 15.46% Impervious Runoff Depth=3.40"
Flow Length=2,207' Tc=167.5 min CN=72 Runoff=39.55 cfs 16.707 af

Subcatchment19S: DA 19

Runoff Area=1,959,990 sf 14.78% Impervious Runoff Depth=3.10"
Flow Length=998' Tc=68.2 min CN=69 Runoff=48.41 cfs 11.625 af

Subcatchment20S: DA 20

Runoff Area=3,181,660 sf 6.78% Impervious Runoff Depth=2.91"
Flow Length=2,232' Tc=96.8 min CN=67 Runoff=58.97 cfs 17.684 af

Subcatchment21S: DA 21

Runoff Area=3,559,430 sf 5.66% Impervious Runoff Depth=3.40"
Flow Length=2,337' Tc=142.9 min CN=72 Runoff=60.58 cfs 23.142 af

Reach 1R: Jesup Rd - River

Avg. Flow Depth=2.86' Max Vel=3.18 fps Inflow=818.70 cfs 342.723 af
L=1,005.0' S=0.0011 '/' Capacity=23,631.23 cfs Outflow=816.38 cfs 342.722 af

Reach 2R: Dam - Myrtle Ave

Avg. Flow Depth=4.19' Max Vel=6.17 fps Inflow=811.58 cfs 328.799 af
L=1,130.0' S=0.0075 '/' Capacity=45,055.89 cfs Outflow=809.88 cfs 328.799 af

Reach 3R: Flow Change 11 (Trib -

Avg. Flow Depth=4.65' Max Vel=3.63 fps Inflow=816.29 cfs 327.042 af
L=522.0' S=0.0038 '/' Capacity=18,789.78 cfs Outflow=815.84 cfs 327.041 af

Reach 4R: Evergreen Ave - N Compo Rd

Avg. Flow Depth=4.09' Max Vel=6.87 fps Inflow=653.69 cfs 279.566 af
L=853.0' S=0.0136 '/' Capacity=13,648.48 cfs Outflow=652.20 cfs 279.566 af

Reach 5R: N Compo Rd - Deerwood Ln

Avg. Flow Depth=2.77' Max Vel=11.96 fps Inflow=570.57 cfs 247.533 af
L=1,603.0' S=0.0277 '/' Capacity=43,905.71 cfs Outflow=569.91 cfs 247.533 af

Reach 6R: Deerwood Ln - Trib

Avg. Flow Depth=2.84' Max Vel=11.13 fps Inflow=579.99 cfs 247.539 af
L=100.0' S=0.0450 '/' Capacity=52,215.56 cfs Outflow=579.93 cfs 247.539 af

Reach 7R: Flow Change 9 (Tributary)

Inflow=579.99 cfs 247.539 af
Outflow=579.99 cfs 247.539 af

Reach 8R: Trib - Roseville Rd 1

Avg. Flow Depth=1.73' Max Vel=14.63 fps Inflow=565.93 cfs 240.303 af
L=131.0' S=0.0519 '/' Capacity=189,609.23 cfs Outflow=565.91 cfs 240.303 af

Reach 9R: Trib - Roseville Rd 2

Avg. Flow Depth=1.73' Max Vel=27.65 fps Inflow=461.75 cfs 211.914 af
L=101.0' S=0.2208 '/' Capacity=8,554.43 cfs Outflow=461.78 cfs 211.914 af

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Reach 10R: Trib - Roseville Rd 3	Avg. Flow Depth=1.63' Max Vel=8.26 fps Inflow=461.76 cfs 211.915 af L=239.0' S=0.0168 '/' Capacity=5,983.07 cfs Outflow=461.75 cfs 211.914 af
Reach 11R: Roseville Rd - Leslie Dr	Avg. Flow Depth=1.79' Max Vel=5.14 fps Inflow=391.55 cfs 193.104 af L=981.0' S=0.0139 '/' Capacity=97,574.36 cfs Outflow=387.38 cfs 193.104 af
Reach 12R: Leslie Dr - Pumpkin Hill Rd	Avg. Flow Depth=1.60' Max Vel=11.73 fps Inflow=293.89 cfs 164.093 af L=386.0' S=0.0392 '/' Capacity=26,732.62 cfs Outflow=293.89 cfs 164.093 af
Reach 13R: Flow Change 7 (Tributary)	Inflow=294.23 cfs 164.096 af Outflow=294.23 cfs 164.096 af
Reach 14R: Pleasant Valley DB 2 - North	Avg. Flow Depth=0.46' Max Vel=6.67 fps Inflow=235.47 cfs 145.147 af L=238.0' S=0.0508 '/' Capacity=44,269.29 cfs Outflow=235.47 cfs 145.147 af
Reach 15R: North Ave - Melon Patch Ln	Avg. Flow Depth=2.63' Max Vel=4.69 fps Inflow=175.08 cfs 117.594 af L=619.0' S=0.0064 '/' Capacity=1,460.39 cfs Outflow=175.07 cfs 117.594 af
Reach 16R: Melon Patch Ln - Cross Hwy	Avg. Flow Depth=2.02' Max Vel=6.34 fps Inflow=175.23 cfs 117.594 af L=1,042.0' S=0.0115 '/' Capacity=1,748.35 cfs Outflow=175.22 cfs 117.594 af
Reach 17R: Flow Change 6 (Tributary)	Inflow=191.47 cfs 117.705 af Outflow=191.47 cfs 117.705 af
Reach 18R: Trib - Vineyard Ln	Avg. Flow Depth=2.64' Max Vel=1.98 fps Inflow=154.69 cfs 94.865 af L=600.0' S=0.0020 '/' Capacity=5,536.26 cfs Outflow=154.22 cfs 94.865 af
Reach 19R: Flow Change 5 (Tributary)	Inflow=154.69 cfs 94.865 af Outflow=154.69 cfs 94.865 af
Reach 20R: Vineyard Ln - Trib	Avg. Flow Depth=2.96' Max Vel=3.00 fps Inflow=154.72 cfs 94.865 af L=325.0' S=0.0031 '/' Capacity=1,274.13 cfs Outflow=154.69 cfs 94.865 af
Reach 21R: Flow Change 4 (Tributary)	Inflow=147.20 cfs 85.754 af Outflow=147.20 cfs 85.754 af
Reach 22R: Vineyard Ln - Trib	Avg. Flow Depth=1.66' Max Vel=2.68 fps Inflow=117.84 cfs 72.580 af L=284.0' S=0.0035 '/' Capacity=4,101.88 cfs Outflow=117.75 cfs 72.580 af
Reach 23R: Cardinal Rd - Highland Rd	Avg. Flow Depth=2.02' Max Vel=4.03 fps Inflow=78.04 cfs 54.656 af L=1,504.0' S=0.0048 '/' Capacity=12,543.77 cfs Outflow=77.40 cfs 54.656 af
Reach 24R: Tupelo Rd - Cardinal Rd	Avg. Flow Depth=2.30' Max Vel=4.39 fps Inflow=93.22 cfs 54.657 af L=705.0' S=0.0072 '/' Capacity=14,683.69 cfs Outflow=82.17 cfs 54.657 af
Reach 25R: Flow Change 2 (Tributary)	Inflow=65.02 cfs 40.532 af Outflow=65.02 cfs 40.532 af
Reach 31R: Flow Change	Inflow=116.25 cfs 71.360 af Outflow=116.25 cfs 71.360 af
Reach 32R: Flow Change	Inflow=811.58 cfs 328.799 af Outflow=811.58 cfs 328.799 af

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Reach 33R: Sturges Hwy - TribAvg. Flow Depth=2.10' Max Vel=0.37 fps Inflow=55.09 cfs 22.849 af
L=1,014.0' S=0.0002 '/' Capacity=1,687.45 cfs Outflow=37.71 cfs 22.848 af**Reach 38R: Flow Change**Inflow=391.55 cfs 193.104 af
Outflow=391.55 cfs 193.104 af**Pond 1P: Jesup Rd**Peak Elev=10.08' Storage=185,326 cf Inflow=830.91 cfs 342.727 af
Primary=812.16 cfs 342.624 af Secondary=6.53 cfs 0.098 af Outflow=818.70 cfs 342.723 af**Pond 2P: Route 1**Peak Elev=12.97' Storage=43,562 cf Inflow=832.39 cfs 342.727 af
Primary=768.16 cfs 339.054 af Secondary=88.17 cfs 3.674 af Outflow=830.91 cfs 342.727 af**Pond 3P: Flow Change 12 (Myrtle Ave)**Peak Elev=13.39' Storage=61,519 cf Inflow=837.74 cfs 342.727 af
Primary=272.17 cfs 230.507 af Secondary=722.09 cfs 112.221 af Outflow=832.39 cfs 342.727 af**Pond 4P: Driveway Dam**Peak Elev=27.98' Storage=393,267 cf Inflow=815.84 cfs 327.041 af
Primary=214.06 cfs 112.419 af Secondary=592.62 cfs 214.510 af Outflow=806.68 cfs 326.929 af**Pond 5P: Evergreen Ave**Peak Elev=31.68' Storage=129,932 cf Inflow=652.20 cfs 279.566 af
Primary=379.83 cfs 250.888 af Secondary=282.12 cfs 28.677 af Outflow=650.83 cfs 279.565 af**Pond 6P: Flow Change 10 (N Compo Rd)**Peak Elev=43.03' Storage=24,029 cf Inflow=653.84 cfs 279.566 af
Primary=500.13 cfs 268.359 af Secondary=153.99 cfs 11.207 af Outflow=653.69 cfs 279.566 af**Pond 7P: Deerwood Ln**Peak Elev=88.61' Storage=132,787 cf Inflow=579.93 cfs 247.539 af
Primary=437.82 cfs 235.215 af Secondary=132.75 cfs 12.318 af Outflow=570.57 cfs 247.533 af**Pond 8P: Flow Change 8 (Roseville Rd)**Peak Elev=133.67' Storage=36,696 cf Inflow=462.63 cfs 211.915 af
Primary=314.74 cfs 200.642 af Secondary=147.02 cfs 11.273 af Outflow=461.76 cfs 211.915 af**Pond 9P: Leslie Dr**Peak Elev=145.51' Storage=25,817 cf Inflow=384.12 cfs 189.815 af
Primary=192.15 cfs 157.375 af Secondary=191.98 cfs 32.439 af Outflow=384.12 cfs 189.814 af**Pond 10P: Pumpkin Hill Rd**Peak Elev=163.91' Storage=89,914 cf Inflow=294.23 cfs 164.096 af
Primary=221.86 cfs 156.251 af Secondary=72.03 cfs 7.843 af Outflow=293.89 cfs 164.093 af**Pond 11P: Pleasant Valley Driveway Bridge 1**Peak Elev=166.31' Storage=82,644 cf Inflow=235.37 cfs 145.145 af
Primary=135.97 cfs 118.635 af Secondary=99.34 cfs 26.325 af Outflow=235.31 cfs 144.960 af**Pond 12P: Pleasant Valley Driveway Bridge 2**Peak Elev=169.36' Storage=82,768 cf Inflow=235.47 cfs 145.147 af
Primary=144.00 cfs 123.730 af Secondary=92.67 cfs 21.415 af Outflow=235.37 cfs 145.145 af**Pond 13P: Flow Change 6 (North Ave)**Peak Elev=181.19' Storage=75,785 cf Inflow=267.61 cfs 145.147 af
Primary=235.47 cfs 145.147 af Secondary=0.00 cfs 0.000 af Outflow=235.47 cfs 145.147 af**Pond 14P: Melon Patch Ln**Peak Elev=184.40' Storage=11,161 cf Inflow=175.22 cfs 117.594 af
Primary=175.08 cfs 117.594 af Secondary=0.00 cfs 0.000 af Outflow=175.08 cfs 117.594 af**Pond 15P: Cross Hwy**Peak Elev=195.81' Storage=101,638 cf Inflow=191.47 cfs 117.705 af
Primary=175.23 cfs 117.594 af Secondary=0.00 cfs 0.000 af Outflow=175.23 cfs 117.594 af**Pond 16P: Silent Grove**Peak Elev=194.01' Storage=872 cf Inflow=144.95 cfs 94.863 af
Primary=144.95 cfs 94.862 af Secondary=0.00 cfs 0.000 af Outflow=144.95 cfs 94.862 af

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Pond 17P: Half Mile Com Peak Elev=195.88' Storage=34,602 cf Inflow=146.46 cfs 94.864 af
Primary=144.95 cfs 94.863 af Secondary=0.00 cfs 0.000 af Outflow=144.95 cfs 94.863 af

Pond 18P: Vineyard Ln Peak Elev=197.74' Storage=38,385 cf Inflow=154.22 cfs 94.865 af
Primary=146.46 cfs 94.864 af Secondary=0.00 cfs 0.000 af Outflow=146.46 cfs 94.864 af

Pond 19P: Vineyard Ln Peak Elev=199.67' Storage=22,464 cf Inflow=147.20 cfs 85.754 af
Primary=143.40 cfs 85.754 af Secondary=0.00 cfs 0.000 af Outflow=143.40 cfs 85.754 af

Pond 20P: Flow Change 3 (Bayberry Ln) Peak Elev=204.31' Storage=16,954 cf Inflow=118.21 cfs 72.580 af
Primary=46.76 cfs 50.875 af Secondary=71.08 cfs 21.705 af Outflow=117.84 cfs 72.580 af

Pond 21P: Highland Rd Peak Elev=207.73' Storage=1,991 cf Inflow=77.40 cfs 54.656 af
Primary=17.81 cfs 27.756 af Secondary=59.59 cfs 26.898 af Outflow=77.40 cfs 54.654 af

Pond 22P: Cardinal Rd Peak Elev=217.71' Storage=5,281 cf Inflow=82.17 cfs 54.657 af
Primary=78.04 cfs 54.656 af Secondary=0.00 cfs 0.000 af Outflow=78.04 cfs 54.656 af

Pond 23P: Tupelo Rd Peak Elev=224.45' Storage=90,146 cf Inflow=147.88 cfs 54.585 af
Primary=29.91 cfs 39.010 af Secondary=65.25 cfs 15.647 af Outflow=93.22 cfs 54.585 af

Pond 24P: Tupelo Rd Peak Elev=224.44' Storage=197,610 cf Inflow=65.02 cfs 40.532 af
Primary=18.90 cfs 12.725 af Secondary=125.46 cfs 30.235 af Outflow=128.14 cfs 40.486 af

Pond 26P: Roseville Rd (Tributary) Peak Elev=130.19' Storage=482 cf Inflow=142.90 cfs 28.389 af
Primary=142.81 cfs 28.388 af Secondary=0.00 cfs 0.000 af Outflow=142.81 cfs 28.388 af

Pond 27P: Flood Storage Peak Elev=195.37' Storage=82,144 cf Inflow=35.80 cfs 9.020 af
Outflow=31.57 cfs 7.880 af

Pond 34P: Flow Change 1 (Sturges Hwy) Peak Elev=226.59' Storage=241,527 cf Inflow=60.58 cfs 23.142 af
Primary=10.76 cfs 14.559 af Secondary=45.48 cfs 8.291 af Outflow=55.09 cfs 22.849 af

Link 1L: Saugatuck River Inflow=876.06 cfs 392.538 af
Primary=876.06 cfs 392.538 af

Time span=2.00-72.00 hrs, dt=0.03 hrs, 2334 points x 5
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment1S: DA 1	Runoff Area=5,463,090 sf 70.37% Impervious Runoff Depth=5.62" Flow Length=2,288' Tc=34.7 min CN=85 Runoff=355.06 cfs 58.700 af
Subcatchment2S: DA 2	Runoff Area=2,591,780 sf 30.87% Impervious Runoff Depth=3.51" Flow Length=1,764' Tc=39.7 min CN=66 Runoff=98.68 cfs 17.382 af
Subcatchment3S: DA 3	Runoff Area=745,440 sf 12.61% Impervious Runoff Depth=1.79" Flow Length=1,365' Tc=51.1 min CN=49 Runoff=10.76 cfs 2.549 af
Subcatchment3S A: DA 3A	Runoff Area=3,945,710 sf 24.42% Impervious Runoff Depth=3.94" Flow Length=1,600' Tc=89.7 min CN=70 Runoff=103.92 cfs 29.714 af
Subcatchment3S B: DA 3B	Runoff Area=1,364,980 sf 16.73% Impervious Runoff Depth=3.29" Flow Length=3,296' Tc=54.5 min CN=64 Runoff=40.27 cfs 8.600 af
Subcatchment3S C: DA 3C	Runoff Area=2,693,890 sf 16.18% Impervious Runoff Depth=3.83" Flow Length=1,054' Tc=24.6 min CN=69 Runoff=146.67 cfs 19.728 af
Subcatchment4S: DA 4	Runoff Area=8,004,580 sf 20.34% Impervious Runoff Depth=3.83" Flow Length=1,600' Tc=89.7 min CN=69 Runoff=204.67 cfs 58.619 af
Subcatchment5S: DA 5	Runoff Area=6,170,400 sf 17.29% Impervious Runoff Depth=3.40" Flow Length=3,139' Tc=35.6 min CN=65 Runoff=241.31 cfs 40.126 af
Subcatchment6S: DA 6	Runoff Area=1,301,860 sf 12.93% Impervious Runoff Depth=3.61" Flow Length=958' Tc=22.9 min CN=67 Runoff=69.40 cfs 8.997 af
Subcatchment7S: DA 7	Runoff Area=3,898,350 sf 15.48% Impervious Runoff Depth=4.60" Flow Length=4,667' Tc=51.5 min CN=76 Runoff=170.10 cfs 34.285 af
Subcatchment7S A: DA 7A	Runoff Area=1,084,650 sf 20.23% Impervious Runoff Depth=4.38" Flow Length=2,687' Tc=48.2 min CN=74 Runoff=46.78 cfs 9.078 af
Subcatchment7S B: DA 7B	Runoff Area=1,529,890 sf 18.31% Impervious Runoff Depth=4.71" Flow Length=2,715' Tc=43.9 min CN=77 Runoff=75.00 cfs 13.782 af
Subcatchment8S: DA 8	Runoff Area=3,171,590 sf 13.17% Impervious Runoff Depth=3.83" Flow Length=2,177' Tc=60.6 min CN=69 Runoff=103.42 cfs 23.226 af
Subcatchment9S: DA 9	Runoff Area=396,960 sf 13.68% Impervious Runoff Depth=5.16" Flow Length=1,255' Tc=29.7 min CN=81 Runoff=26.15 cfs 3.918 af
Subcatchment10S: DA 10	Runoff Area=3,842,170 sf 15.53% Impervious Runoff Depth=4.26" Flow Length=4,307' Tc=52.2 min CN=73 Runoff=153.12 cfs 31.348 af
Subcatchment11S: DA 11	Runoff Area=2,858,420 sf 17.44% Impervious Runoff Depth=4.26" Flow Length=919' Tc=103.2 min CN=73 Runoff=75.20 cfs 23.321 af
Subcatchment12S: DA 12	Runoff Area=3,888,950 sf 14.84% Impervious Runoff Depth=4.49" Flow Length=3,270' Tc=37.9 min CN=75 Runoff=196.14 cfs 33.375 af

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Subcatchment13S: DA 13	Runoff Area=1,678,500 sf 18.60% Impervious Runoff Depth=3.51" Flow Length=2,224' Tc=72.7 min CN=66 Runoff=44.56 cfs 11.257 af
Subcatchment14S: DA 14	Runoff Area=2,522,660 sf 13.88% Impervious Runoff Depth=3.83" Flow Length=1,623' Tc=51.5 min CN=69 Runoff=91.36 cfs 18.474 af
Subcatchment15S: DA 15	Runoff Area=1,360,960 sf 15.02% Impervious Runoff Depth=4.26" Flow Length=1,447' Tc=62.3 min CN=73 Runoff=49.26 cfs 11.104 af
Subcatchment16S: DA 16	Runoff Area=2,727,030 sf 10.43% Impervious Runoff Depth=3.19" Flow Length=2,368' Tc=100.7 min CN=63 Runoff=53.50 cfs 16.632 af
Subcatchment17S: DA 17	Runoff Area=234,970 sf 4.34% Impervious Runoff Depth=3.40" Flow Length=926' Tc=67.9 min CN=65 Runoff=6.34 cfs 1.528 af
Subcatchment18S: DA 18	Runoff Area=2,569,620 sf 15.46% Impervious Runoff Depth=4.15" Flow Length=2,207' Tc=167.5 min CN=72 Runoff=48.07 cfs 20.425 af
Subcatchment19S: DA 19	Runoff Area=1,959,990 sf 14.78% Impervious Runoff Depth=3.83" Flow Length=998' Tc=68.2 min CN=69 Runoff=59.41 cfs 14.353 af
Subcatchment20S: DA 20	Runoff Area=3,181,660 sf 6.78% Impervious Runoff Depth=3.61" Flow Length=2,232' Tc=96.8 min CN=67 Runoff=73.24 cfs 21.989 af
Subcatchment21S: DA 21	Runoff Area=3,559,430 sf 5.66% Impervious Runoff Depth=4.15" Flow Length=2,337' Tc=142.9 min CN=72 Runoff=73.72 cfs 28.292 af
Reach 1R: Jesup Rd - River	Avg. Flow Depth=3.29' Max Vel=3.47 fps Inflow=1,034.70 cfs 423.579 af L=1,005.0' S=0.0011 '/' Capacity=23,631.23 cfs Outflow=1,031.60 cfs 423.579 af
Reach 2R: Dam - Myrtle Ave	Avg. Flow Depth=4.57' Max Vel=6.17 fps Inflow=1,009.94 cfs 406.199 af L=1,130.0' S=0.0075 '/' Capacity=45,055.89 cfs Outflow=1,006.88 cfs 406.199 af
Reach 3R: Flow Change 11 (Trib -	Avg. Flow Depth=5.02' Max Vel=3.84 fps Inflow=1,018.97 cfs 403.763 af L=522.0' S=0.0038 '/' Capacity=18,789.78 cfs Outflow=1,017.88 cfs 403.763 af
Reach 4R: Evergreen Ave - N Compo Rd	Avg. Flow Depth=4.30' Max Vel=6.87 fps Inflow=821.59 cfs 345.144 af L=853.0' S=0.0136 '/' Capacity=13,648.48 cfs Outflow=819.23 cfs 345.144 af
Reach 5R: N Compo Rd - Deerwood Ln	Avg. Flow Depth=3.12' Max Vel=12.44 fps Inflow=716.84 cfs 305.019 af L=1,603.0' S=0.0277 '/' Capacity=43,905.71 cfs Outflow=715.46 cfs 305.019 af
Reach 6R: Deerwood Ln - Trib	Avg. Flow Depth=3.15' Max Vel=11.47 fps Inflow=741.89 cfs 305.025 af L=100.0' S=0.0450 '/' Capacity=52,215.56 cfs Outflow=741.94 cfs 305.025 af
Reach 7R: Flow Change 9 (Tributary)	Inflow=741.89 cfs 305.025 af Outflow=741.89 cfs 305.025 af
Reach 8R: Trib - Roseville Rd 1	Avg. Flow Depth=1.99' Max Vel=15.68 fps Inflow=722.59 cfs 296.027 af L=131.0' S=0.0519 '/' Capacity=189,609.23 cfs Outflow=722.61 cfs 296.027 af
Reach 9R: Trib - Roseville Rd 2	Avg. Flow Depth=1.98' Max Vel=29.36 fps Inflow=583.29 cfs 261.743 af L=101.0' S=0.2208 '/' Capacity=8,554.43 cfs Outflow=583.28 cfs 261.743 af

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Reach 10R: Trib - Roseville Rd 3	Avg. Flow Depth=1.87' Max Vel=8.86 fps Inflow=583.31 cfs 261.743 af L=239.0' S=0.0168 '/' Capacity=5,983.07 cfs Outflow=583.29 cfs 261.743 af
Reach 11R: Roseville Rd - Leslie Dr	Avg. Flow Depth=1.91' Max Vel=5.14 fps Inflow=494.02 cfs 238.517 af L=981.0' S=0.0139 '/' Capacity=97,574.36 cfs Outflow=485.58 cfs 238.517 af
Reach 12R: Leslie Dr - Pumpkin Hill Rd	Avg. Flow Depth=1.76' Max Vel=12.24 fps Inflow=347.06 cfs 203.253 af L=386.0' S=0.0392 '/' Capacity=26,732.62 cfs Outflow=347.16 cfs 203.253 af
Reach 13R: Flow Change 7 (Tributary)	Inflow=349.20 cfs 203.256 af Outflow=349.20 cfs 203.256 af
Reach 14R: Pleasant Valley DB 2 - North	Avg. Flow Depth=0.54' Max Vel=7.32 fps Inflow=298.98 cfs 180.121 af L=238.0' S=0.0508 '/' Capacity=44,269.29 cfs Outflow=298.94 cfs 180.121 af
Reach 15R: North Ave - Melon Patch Ln	Avg. Flow Depth=2.84' Max Vel=4.77 fps Inflow=205.52 cfs 146.747 af L=619.0' S=0.0064 '/' Capacity=1,460.39 cfs Outflow=205.51 cfs 146.747 af
Reach 16R: Melon Patch Ln - Cross Hwy	Avg. Flow Depth=2.20' Max Vel=6.48 fps Inflow=206.66 cfs 146.747 af L=1,042.0' S=0.0115 '/' Capacity=1,748.35 cfs Outflow=206.63 cfs 146.747 af
Reach 17R: Flow Change 6 (Tributary)	Inflow=227.73 cfs 146.858 af Outflow=227.73 cfs 146.858 af
Reach 18R: Trib - Vineyard Ln	Avg. Flow Depth=2.80' Max Vel=1.98 fps Inflow=189.39 cfs 118.270 af L=600.0' S=0.0020 '/' Capacity=5,536.26 cfs Outflow=189.24 cfs 118.269 af
Reach 19R: Flow Change 5 (Tributary)	Inflow=189.39 cfs 118.270 af Outflow=189.39 cfs 118.270 af
Reach 20R: Vineyard Ln - Trib	Avg. Flow Depth=3.20' Max Vel=3.00 fps Inflow=189.41 cfs 118.270 af L=325.0' S=0.0031 '/' Capacity=1,274.13 cfs Outflow=189.39 cfs 118.270 af
Reach 21R: Flow Change 4 (Tributary)	Inflow=197.06 cfs 107.166 af Outflow=197.06 cfs 107.166 af
Reach 22R: Vineyard Ln - Trib	Avg. Flow Depth=1.84' Max Vel=2.68 fps Inflow=157.17 cfs 90.534 af L=284.0' S=0.0035 '/' Capacity=4,101.88 cfs Outflow=157.06 cfs 90.534 af
Reach 23R: Cardinal Rd - Highland Rd	Avg. Flow Depth=2.40' Max Vel=4.03 fps Inflow=116.86 cfs 68.584 af L=1,504.0' S=0.0048 '/' Capacity=12,543.77 cfs Outflow=109.50 cfs 68.584 af
Reach 24R: Tupelo Rd - Cardinal Rd	Avg. Flow Depth=2.63' Max Vel=4.39 fps Inflow=138.35 cfs 68.585 af L=705.0' S=0.0072 '/' Capacity=14,683.69 cfs Outflow=118.65 cfs 68.585 af
Reach 25R: Flow Change 2 (Tributary)	Inflow=80.66 cfs 49.986 af Outflow=80.66 cfs 49.986 af
Reach 31R: Flow Change	Inflow=155.33 cfs 89.006 af Outflow=155.33 cfs 89.006 af
Reach 32R: Flow Change	Inflow=1,009.94 cfs 406.199 af Outflow=1,009.94 cfs 406.199 af

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Reach 33R: Sturges Hwy - TribAvg. Flow Depth=2.32' Max Vel=0.37 fps Inflow=70.71 cfs 27.999 af
L=1,014.0' S=0.0002 '/' Capacity=1,687.45 cfs Outflow=51.08 cfs 27.998 af**Reach 38R: Flow Change**Inflow=494.02 cfs 238.517 af
Outflow=494.02 cfs 238.517 af**Pond 1P: Jesup Rd**Peak Elev=10.67' Storage=234,182 cf Inflow=1,038.01 cfs 423.584 af
Primary=886.41 cfs 415.899 af Secondary=148.29 cfs 7.680 af Outflow=1,034.70 cfs 423.579 af**Pond 2P: Route 1**Peak Elev=13.58' Storage=51,350 cf Inflow=1,038.33 cfs 423.580 af
Primary=785.13 cfs 404.149 af Secondary=294.84 cfs 19.436 af Outflow=1,038.01 cfs 423.580 af**Pond 3P: Flow Change 12 (Myrtle Ave)**Peak Elev=13.93' Storage=93,622 cf Inflow=1,042.29 cfs 423.580 af
Primary=272.09 cfs 254.294 af Secondary=938.42 cfs 169.286 af Outflow=1,038.33 cfs 423.580 af**Pond 4P: Driveway Dam**Peak Elev=28.86' Storage=473,059 cf Inflow=1,017.88 cfs 403.763 af
Primary=259.67 cfs 132.945 af Secondary=743.25 cfs 270.706 af Outflow=1,002.92 cfs 403.650 af**Pond 5P: Evergreen Ave**Peak Elev=32.00' Storage=159,986 cf Inflow=819.23 cfs 345.144 af
Primary=380.69 cfs 295.538 af Secondary=449.67 cfs 49.605 af Outflow=815.52 cfs 345.144 af**Pond 6P: Flow Change 10 (N Compo Rd)**Peak Elev=43.30' Storage=33,042 cf Inflow=822.00 cfs 345.145 af
Primary=510.96 cfs 319.524 af Secondary=310.72 cfs 25.620 af Outflow=821.59 cfs 345.144 af**Pond 7P: Deerwood Ln**Peak Elev=89.90' Storage=196,931 cf Inflow=741.94 cfs 305.025 af
Primary=482.95 cfs 282.104 af Secondary=233.90 cfs 22.915 af Outflow=716.84 cfs 305.019 af**Pond 8P: Flow Change 8 (Roseville Rd)**Peak Elev=134.00' Storage=47,893 cf Inflow=584.63 cfs 261.743 af
Primary=318.57 cfs 238.946 af Secondary=264.75 cfs 22.797 af Outflow=583.31 cfs 261.743 af**Pond 9P: Leslie Dr**Peak Elev=145.76' Storage=29,338 cf Inflow=483.66 cfs 234.601 af
Primary=197.32 cfs 178.801 af Secondary=286.02 cfs 55.798 af Outflow=483.33 cfs 234.599 af**Pond 10P: Pumpkin Hill Rd**Peak Elev=164.09' Storage=98,366 cf Inflow=349.20 cfs 203.256 af
Primary=225.03 cfs 183.332 af Secondary=122.03 cfs 19.921 af Outflow=347.06 cfs 203.253 af**Pond 11P: Pleasant Valley Driveway Bridge 1**Peak Elev=166.51' Storage=89,742 cf Inflow=296.54 cfs 180.119 af
Primary=142.60 cfs 134.061 af Secondary=158.12 cfs 45.874 af Outflow=294.77 cfs 179.935 af**Pond 12P: Pleasant Valley Driveway Bridge 2**Peak Elev=169.56' Storage=90,330 cf Inflow=298.94 cfs 180.121 af
Primary=144.15 cfs 138.743 af Secondary=153.50 cfs 41.376 af Outflow=296.54 cfs 180.119 af**Pond 13P: Flow Change 6 (North Ave)**Peak Elev=181.56' Storage=99,520 cf Inflow=317.01 cfs 180.121 af
Primary=244.29 cfs 178.016 af Secondary=54.69 cfs 2.106 af Outflow=298.98 cfs 180.121 af**Pond 14P: Melon Patch Ln**Peak Elev=185.41' Storage=30,776 cf Inflow=206.63 cfs 146.747 af
Primary=205.52 cfs 146.747 af Secondary=0.00 cfs 0.000 af Outflow=205.52 cfs 146.747 af**Pond 15P: Cross Hwy**Peak Elev=196.08' Storage=162,058 cf Inflow=227.73 cfs 146.858 af
Primary=193.99 cfs 144.562 af Secondary=12.67 cfs 2.185 af Outflow=206.66 cfs 146.747 af**Pond 16P: Silent Grove**Peak Elev=195.12' Storage=6,709 cf Inflow=184.49 cfs 118.268 af
Primary=184.27 cfs 118.267 af Secondary=0.00 cfs 0.000 af Outflow=184.27 cfs 118.267 af

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Pond 17P: Half Mile Com Peak Elev=196.57' Storage=108,791 cf Inflow=187.33 cfs 118.269 af
Primary=153.80 cfs 111.032 af Secondary=56.05 cfs 7.236 af Outflow=184.49 cfs 118.268 af

Pond 18P: Vineyard Ln Peak Elev=198.29' Storage=102,910 cf Inflow=189.24 cfs 118.269 af
Primary=156.78 cfs 111.128 af Secondary=46.10 cfs 7.141 af Outflow=187.33 cfs 118.269 af

Pond 19P: Vineyard Ln Peak Elev=200.90' Storage=118,326 cf Inflow=197.06 cfs 107.166 af
Primary=178.67 cfs 107.166 af Secondary=0.00 cfs 0.000 af Outflow=178.67 cfs 107.166 af

Pond 20P: Flow Change 3 (Bayberry Ln) Peak Elev=204.93' Storage=29,941 cf Inflow=158.11 cfs 90.534 af
Primary=50.35 cfs 55.950 af Secondary=106.82 cfs 34.584 af Outflow=157.17 cfs 90.534 af

Pond 21P: Highland Rd Peak Elev=207.81' Storage=2,187 cf Inflow=109.50 cfs 68.584 af
Primary=18.19 cfs 29.487 af Secondary=91.31 cfs 39.094 af Outflow=109.49 cfs 68.581 af

Pond 22P: Cardinal Rd Peak Elev=218.46' Storage=15,989 cf Inflow=118.65 cfs 68.585 af
Primary=84.50 cfs 64.089 af Secondary=34.24 cfs 4.495 af Outflow=116.86 cfs 68.584 af

Pond 23P: Tupelo Rd Peak Elev=224.55' Storage=96,168 cf Inflow=202.30 cfs 68.465 af
Primary=29.89 cfs 41.568 af Secondary=111.04 cfs 27.017 af Outflow=138.35 cfs 68.465 af

Pond 24P: Tupelo Rd Peak Elev=224.53' Storage=215,864 cf Inflow=80.66 cfs 49.986 af
Primary=19.68 cfs 11.867 af Secondary=159.53 cfs 42.245 af Outflow=166.06 cfs 49.940 af

Pond 26P: Roseville Rd (Tributary) Peak Elev=130.67' Storage=865 cf Inflow=170.10 cfs 34.285 af
Primary=169.95 cfs 34.284 af Secondary=0.00 cfs 0.000 af Outflow=169.95 cfs 34.284 af

Pond 27P: Flood Storage Peak Elev=195.44' Storage=88,794 cf Inflow=44.56 cfs 11.257 af
Outflow=41.34 cfs 10.117 af

Pond 34P: Flow Change 1 (Sturges Hwy) Peak Elev=226.64' Storage=249,289 cf Inflow=73.72 cfs 28.292 af
Primary=10.78 cfs 15.291 af Secondary=61.56 cfs 12.709 af Outflow=70.71 cfs 27.999 af

Link 1L: Saugatuck River Inflow=1,110.42 cfs 482.279 af
Primary=1,110.42 cfs 482.279 af

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Time span=2.00-72.00 hrs, dt=0.03 hrs, 2334 points x 5
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment1S: DA 1	Runoff Area=5,463,090 sf 70.37% Impervious Runoff Depth=6.47" Flow Length=2,288' Tc=34.7 min CN=85 Runoff=402.05 cfs 67.662 af
Subcatchment2S: DA 2	Runoff Area=2,591,780 sf 30.87% Impervious Runoff Depth=4.23" Flow Length=1,764' Tc=39.7 min CN=66 Runoff=118.41 cfs 20.973 af
Subcatchment3S: DA 3	Runoff Area=745,440 sf 12.61% Impervious Runoff Depth=2.31" Flow Length=1,365' Tc=51.1 min CN=49 Runoff=14.43 cfs 3.291 af
Subcatchment3S A: DA 3A	Runoff Area=3,945,710 sf 24.42% Impervious Runoff Depth=4.70" Flow Length=1,600' Tc=89.7 min CN=70 Runoff=122.87 cfs 35.456 af
Subcatchment3S B: DA 3B	Runoff Area=1,364,980 sf 16.73% Impervious Runoff Depth=4.00" Flow Length=3,296' Tc=54.5 min CN=64 Runoff=48.71 cfs 10.439 af
Subcatchment3S C: DA 3C	Runoff Area=2,693,890 sf 16.18% Impervious Runoff Depth=4.58" Flow Length=1,054' Tc=24.6 min CN=69 Runoff=174.09 cfs 23.604 af
Subcatchment4S: DA 4	Runoff Area=8,004,580 sf 20.34% Impervious Runoff Depth=4.58" Flow Length=1,600' Tc=89.7 min CN=69 Runoff=242.86 cfs 70.135 af
Subcatchment5S: DA 5	Runoff Area=6,170,400 sf 17.29% Impervious Runoff Depth=4.11" Flow Length=3,139' Tc=35.6 min CN=65 Runoff=290.65 cfs 48.559 af
Subcatchment6S: DA 6	Runoff Area=1,301,860 sf 12.93% Impervious Runoff Depth=4.35" Flow Length=958' Tc=22.9 min CN=67 Runoff=83.00 cfs 10.825 af
Subcatchment7S: DA 7	Runoff Area=3,898,350 sf 15.48% Impervious Runoff Depth=5.40" Flow Length=4,667' Tc=51.5 min CN=76 Runoff=197.16 cfs 40.304 af
Subcatchment7S A: DA 7A	Runoff Area=1,084,650 sf 20.23% Impervious Runoff Depth=5.17" Flow Length=2,687' Tc=48.2 min CN=74 Runoff=54.57 cfs 10.723 af
Subcatchment7S B: DA 7B	Runoff Area=1,529,890 sf 18.31% Impervious Runoff Depth=5.52" Flow Length=2,715' Tc=43.9 min CN=77 Runoff=86.71 cfs 16.163 af
Subcatchment8S: DA 8	Runoff Area=3,171,590 sf 13.17% Impervious Runoff Depth=4.58" Flow Length=2,177' Tc=60.6 min CN=69 Runoff=122.71 cfs 27.789 af
Subcatchment9S: DA 9	Runoff Area=396,960 sf 13.68% Impervious Runoff Depth=6.00" Flow Length=1,255' Tc=29.7 min CN=81 Runoff=29.92 cfs 4.555 af
Subcatchment10S: DA 10	Runoff Area=3,842,170 sf 15.53% Impervious Runoff Depth=5.05" Flow Length=4,307' Tc=52.2 min CN=73 Runoff=179.09 cfs 37.119 af
Subcatchment11S: DA 11	Runoff Area=2,858,420 sf 17.44% Impervious Runoff Depth=5.05" Flow Length=919' Tc=103.2 min CN=73 Runoff=88.00 cfs 27.615 af
Subcatchment12S: DA 12	Runoff Area=3,888,950 sf 14.84% Impervious Runoff Depth=5.29" Flow Length=3,270' Tc=37.9 min CN=75 Runoff=228.11 cfs 39.327 af

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Subcatchment13S: DA 13Runoff Area=1,678,500 sf 18.60% Impervious Runoff Depth=4.23"
Flow Length=2,224' Tc=72.7 min CN=66 Runoff=53.42 cfs 13.582 af**Subcatchment14S: DA 14**Runoff Area=2,522,660 sf 13.88% Impervious Runoff Depth=4.58"
Flow Length=1,623' Tc=51.5 min CN=69 Runoff=108.33 cfs 22.103 af**Subcatchment15S: DA 15**Runoff Area=1,360,960 sf 15.02% Impervious Runoff Depth=5.05"
Flow Length=1,447' Tc=62.3 min CN=73 Runoff=57.62 cfs 13.148 af**Subcatchment16S: DA 16**Runoff Area=2,727,030 sf 10.43% Impervious Runoff Depth=3.88"
Flow Length=2,368' Tc=100.7 min CN=63 Runoff=65.06 cfs 20.253 af**Subcatchment17S: DA 17**Runoff Area=234,970 sf 4.34% Impervious Runoff Depth=4.11"
Flow Length=926' Tc=67.9 min CN=65 Runoff=7.63 cfs 1.849 af**Subcatchment18S: DA 18**Runoff Area=2,569,620 sf 15.46% Impervious Runoff Depth=4.93"
Flow Length=2,207' Tc=167.5 min CN=72 Runoff=56.55 cfs 24.246 af**Subcatchment19S: DA 19**Runoff Area=1,959,990 sf 14.78% Impervious Runoff Depth=4.58"
Flow Length=998' Tc=68.2 min CN=69 Runoff=70.44 cfs 17.173 af**Subcatchment20S: DA 20**Runoff Area=3,181,660 sf 6.78% Impervious Runoff Depth=4.35"
Flow Length=2,232' Tc=96.8 min CN=67 Runoff=87.62 cfs 26.455 af**Subcatchment21S: DA 21**Runoff Area=3,559,430 sf 5.66% Impervious Runoff Depth=4.93"
Flow Length=2,337' Tc=142.9 min CN=72 Runoff=86.82 cfs 33.585 af**Reach 1R: Jesup Rd - River**Avg. Flow Depth=3.67' Max Vel=3.71 fps Inflow=1,246.24 cfs 507.317 af
L=1,005.0' S=0.0011 '/' Capacity=23,631.23 cfs Outflow=1,242.31 cfs 507.316 af**Reach 2R: Dam - Myrtle Ave**Avg. Flow Depth=4.91' Max Vel=6.17 fps Inflow=1,214.04 cfs 486.349 af
L=1,130.0' S=0.0075 '/' Capacity=45,055.89 cfs Outflow=1,209.65 cfs 486.348 af**Reach 3R: Flow Change 11 (Trib -**Avg. Flow Depth=5.36' Max Vel=4.03 fps Inflow=1,227.27 cfs 483.171 af
L=522.0' S=0.0038 '/' Capacity=18,789.78 cfs Outflow=1,225.55 cfs 483.171 af**Reach 4R: Evergreen Ave - N Compo Rd**Avg. Flow Depth=4.49' Max Vel=6.87 fps Inflow=997.03 cfs 413.036 af
L=853.0' S=0.0136 '/' Capacity=13,648.48 cfs Outflow=993.88 cfs 413.036 af**Reach 5R: N Compo Rd - Deerwood Ln**Avg. Flow Depth=3.42' Max Vel=12.83 fps Inflow=860.90 cfs 364.478 af
L=1,603.0' S=0.0277 '/' Capacity=43,905.71 cfs Outflow=858.97 cfs 364.477 af**Reach 6R: Deerwood Ln - Trib**Avg. Flow Depth=3.39' Max Vel=11.77 fps Inflow=893.64 cfs 364.483 af
L=100.0' S=0.0450 '/' Capacity=52,215.56 cfs Outflow=893.68 cfs 364.483 af**Reach 7R: Flow Change 9 (Tributary)**Inflow=893.64 cfs 364.483 af
Outflow=893.64 cfs 364.483 af**Reach 8R: Trib - Roseville Rd 1**Avg. Flow Depth=2.21' Max Vel=16.47 fps Inflow=868.47 cfs 353.658 af
L=131.0' S=0.0519 '/' Capacity=189,609.23 cfs Outflow=868.49 cfs 353.658 af**Reach 9R: Trib - Roseville Rd 2**Avg. Flow Depth=2.18' Max Vel=30.60 fps Inflow=693.71 cfs 313.355 af
L=101.0' S=0.2208 '/' Capacity=8,554.43 cfs Outflow=693.70 cfs 313.355 af

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Reach 10R: Trib - Roseville Rd 3	Avg. Flow Depth=2.06'	Max Vel=9.31 fps	Inflow=693.86 cfs	313.355 af
	L=239.0'	S=0.0168 '/'	Capacity=5,983.07 cfs	Outflow=693.71 cfs 313.355 af
Reach 11R: Roseville Rd - Leslie Dr	Avg. Flow Depth=2.02'	Max Vel=5.13 fps	Inflow=586.97 cfs	285.567 af
	L=981.0'	S=0.0139 '/'	Capacity=97,574.36 cfs	Outflow=574.38 cfs 285.566 af
Reach 12R: Leslie Dr - Pumpkin Hill Rd	Avg. Flow Depth=1.91'	Max Vel=12.68 fps	Inflow=401.13 cfs	243.895 af
	L=386.0'	S=0.0392 '/'	Capacity=26,732.62 cfs	Outflow=401.14 cfs 243.895 af
Reach 13R: Flow Change 7 (Tributary)			Inflow=404.09 cfs	243.898 af
			Outflow=404.09 cfs	243.898 af
Reach 14R: Pleasant Valley DB 2 - North	Avg. Flow Depth=0.59'	Max Vel=7.80 fps	Inflow=353.00 cfs	216.470 af
	L=238.0'	S=0.0508 '/'	Capacity=44,269.29 cfs	Outflow=353.06 cfs 216.470 af
Reach 15R: North Ave - Melon Patch Ln	Avg. Flow Depth=3.08'	Max Vel=4.84 fps	Inflow=244.71 cfs	177.144 af
	L=619.0'	S=0.0064 '/'	Capacity=1,460.39 cfs	Outflow=244.70 cfs 177.143 af
Reach 16R: Melon Patch Ln - Cross Hwy	Avg. Flow Depth=2.40'	Max Vel=6.62 fps	Inflow=245.06 cfs	177.144 af
	L=1,042.0'	S=0.0115 '/'	Capacity=1,748.35 cfs	Outflow=245.05 cfs 177.144 af
Reach 17R: Flow Change 6 (Tributary)			Inflow=261.89 cfs	177.255 af
			Outflow=261.89 cfs	177.255 af
Reach 18R: Trib - Vineyard Ln	Avg. Flow Depth=2.96'	Max Vel=1.98 fps	Inflow=230.70 cfs	142.711 af
	L=600.0'	S=0.0020 '/'	Capacity=5,536.26 cfs	Outflow=230.43 cfs 142.711 af
Reach 19R: Flow Change 5 (Tributary)			Inflow=230.70 cfs	142.711 af
			Outflow=230.70 cfs	142.711 af
Reach 20R: Vineyard Ln - Trib	Avg. Flow Depth=3.45'	Max Vel=3.00 fps	Inflow=230.72 cfs	142.712 af
	L=325.0'	S=0.0031 '/'	Capacity=1,274.13 cfs	Outflow=230.70 cfs 142.711 af
Reach 21R: Flow Change 4 (Tributary)			Inflow=246.53 cfs	129.564 af
			Outflow=246.53 cfs	129.564 af
Reach 22R: Vineyard Ln - Trib	Avg. Flow Depth=1.99'	Max Vel=2.68 fps	Inflow=202.48 cfs	109.311 af
	L=284.0'	S=0.0035 '/'	Capacity=4,101.88 cfs	Outflow=202.27 cfs 109.311 af
Reach 23R: Cardinal Rd - Highland Rd	Avg. Flow Depth=2.63'	Max Vel=4.03 fps	Inflow=151.48 cfs	83.219 af
	L=1,504.0'	S=0.0048 '/'	Capacity=12,543.77 cfs	Outflow=145.05 cfs 83.218 af
Reach 24R: Tupelo Rd - Cardinal Rd	Avg. Flow Depth=2.88'	Max Vel=4.39 fps	Inflow=173.64 cfs	83.220 af
	L=705.0'	S=0.0072 '/'	Capacity=14,683.69 cfs	Outflow=153.65 cfs 83.220 af
Reach 25R: Flow Change 2 (Tributary)			Inflow=102.92 cfs	59.745 af
			Outflow=102.92 cfs	59.745 af
Reach 31R: Flow Change			Inflow=200.97 cfs	107.462 af
			Outflow=200.97 cfs	107.462 af
Reach 32R: Flow Change			Inflow=1,214.04 cfs	486.349 af
			Outflow=1,214.04 cfs	486.349 af

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Reach 33R: Sturges Hwy - TribAvg. Flow Depth=2.52' Max Vel=0.37 fps Inflow=84.85 cfs 33.292 af
L=1,014.0' S=0.0002 '/' Capacity=1,687.45 cfs Outflow=64.64 cfs 33.290 af**Reach 38R: Flow Change**Inflow=586.97 cfs 285.567 af
Outflow=586.97 cfs 285.567 af**Pond 1P: Jesup Rd**Peak Elev=11.10' Storage=269,558 cf Inflow=1,249.27 cfs 507.321 af
Primary=941.49 cfs 486.623 af Secondary=304.75 cfs 20.693 af Outflow=1,246.24 cfs 507.317 af**Pond 2P: Route 1**Peak Elev=14.04' Storage=57,280 cf Inflow=1,249.55 cfs 507.321 af
Primary=796.04 cfs 466.808 af Secondary=502.15 cfs 40.513 af Outflow=1,249.27 cfs 507.321 af**Pond 3P: Flow Change 12 (Myrtle Ave)**Peak Elev=14.38' Storage=124,540 cf Inflow=1,254.31 cfs 507.321 af
Primary=272.03 cfs 273.646 af Secondary=1,151.23 cfs 233.675 af Outflow=1,249.55 cfs 507.321 af**Pond 4P: Driveway Dam**Peak Elev=29.70' Storage=549,719 cf Inflow=1,225.55 cfs 483.171 af
Primary=306.18 cfs 153.769 af Secondary=898.29 cfs 329.289 af Outflow=1,204.47 cfs 483.058 af**Pond 5P: Evergreen Ave**Peak Elev=32.29' Storage=192,168 cf Inflow=993.88 cfs 413.036 af
Primary=380.39 cfs 336.111 af Secondary=624.16 cfs 76.925 af Outflow=987.52 cfs 413.036 af**Pond 6P: Flow Change 10 (N Compo Rd)**Peak Elev=43.54' Storage=42,362 cf Inflow=997.68 cfs 413.037 af
Primary=520.43 cfs 369.321 af Secondary=476.78 cfs 43.715 af Outflow=997.03 cfs 413.036 af**Pond 7P: Deerwood Ln**Peak Elev=91.08' Storage=255,210 cf Inflow=893.68 cfs 364.483 af
Primary=519.92 cfs 326.271 af Secondary=341.00 cfs 38.207 af Outflow=860.90 cfs 364.478 af**Pond 8P: Flow Change 8 (Roseville Rd)**Peak Elev=134.26' Storage=57,630 cf Inflow=695.26 cfs 313.355 af
Primary=320.71 cfs 272.338 af Secondary=373.15 cfs 41.017 af Outflow=693.86 cfs 313.355 af**Pond 9P: Leslie Dr**Peak Elev=145.96' Storage=32,352 cf Inflow=572.84 cfs 281.014 af
Primary=201.36 cfs 197.516 af Secondary=371.38 cfs 83.496 af Outflow=572.74 cfs 281.012 af**Pond 10P: Pumpkin Hill Rd**Peak Elev=164.25' Storage=106,740 cf Inflow=404.09 cfs 243.898 af
Primary=227.96 cfs 204.200 af Secondary=173.17 cfs 39.695 af Outflow=401.13 cfs 243.895 af**Pond 11P: Pleasant Valley Driveway Bridge 1**Peak Elev=166.65' Storage=95,634 cf Inflow=350.47 cfs 216.468 af
Primary=142.87 cfs 147.976 af Secondary=206.37 cfs 68.307 af Outflow=348.35 cfs 216.283 af**Pond 12P: Pleasant Valley Driveway Bridge 2**Peak Elev=169.72' Storage=96,560 cf Inflow=353.06 cfs 216.470 af
Primary=144.92 cfs 151.808 af Secondary=207.05 cfs 64.660 af Outflow=350.47 cfs 216.468 af**Pond 13P: Flow Change 6 (North Ave)**Peak Elev=181.71' Storage=109,756 cf Inflow=362.61 cfs 216.470 af
Primary=247.61 cfs 203.983 af Secondary=105.39 cfs 12.487 af Outflow=353.00 cfs 216.470 af**Pond 14P: Melon Patch Ln**Peak Elev=186.28' Storage=60,233 cf Inflow=245.05 cfs 177.144 af
Primary=228.20 cfs 173.219 af Secondary=16.51 cfs 3.925 af Outflow=244.71 cfs 177.144 af**Pond 15P: Cross Hwy**Peak Elev=196.19' Storage=193,527 cf Inflow=261.89 cfs 177.255 af
Primary=199.76 cfs 163.721 af Secondary=45.84 cfs 13.424 af Outflow=245.06 cfs 177.144 af**Pond 16P: Silent Grove**Peak Elev=196.37' Storage=56,260 cf Inflow=226.39 cfs 142.710 af
Primary=219.60 cfs 142.709 af Secondary=0.00 cfs 0.000 af Outflow=219.60 cfs 142.709 af

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Pond 17P: Half Mile Com Peak Elev=196.82' Storage=147,448 cf Inflow=229.63 cfs 142.711 af
Primary=153.81 cfs 110.588 af Secondary=150.28 cfs 32.122 af Outflow=226.39 cfs 142.710 af

Pond 18P: Vineyard Ln Peak Elev=198.41' Storage=122,451 cf Inflow=230.43 cfs 142.711 af
Primary=158.02 cfs 121.581 af Secondary=93.95 cfs 21.130 af Outflow=229.63 cfs 142.711 af

Pond 19P: Vineyard Ln Peak Elev=202.07' Storage=269,083 cf Inflow=246.53 cfs 129.564 af
Primary=206.10 cfs 128.011 af Secondary=13.26 cfs 1.553 af Outflow=219.37 cfs 129.564 af

Pond 20P: Flow Change 3 (Bayberry Ln) Peak Elev=205.58' Storage=46,736 cf Inflow=203.83 cfs 109.311 af
Primary=53.82 cfs 60.567 af Secondary=148.66 cfs 48.744 af Outflow=202.48 cfs 109.311 af

Pond 21P: Highland Rd Peak Elev=207.88' Storage=2,393 cf Inflow=145.05 cfs 83.218 af
Primary=18.54 cfs 31.077 af Secondary=126.51 cfs 52.139 af Outflow=145.05 cfs 83.216 af

Pond 22P: Cardinal Rd Peak Elev=218.56' Storage=18,192 cf Inflow=153.65 cfs 83.220 af
Primary=85.11 cfs 70.377 af Secondary=70.95 cfs 12.842 af Outflow=151.48 cfs 83.219 af

Pond 23P: Tupelo Rd Peak Elev=224.62' Storage=100,363 cf Inflow=242.11 cfs 83.048 af
Primary=29.92 cfs 43.741 af Secondary=146.78 cfs 39.478 af Outflow=173.64 cfs 83.048 af

Pond 24P: Tupelo Rd Peak Elev=224.60' Storage=232,422 cf Inflow=102.92 cfs 59.745 af
Primary=19.77 cfs 11.450 af Secondary=212.09 cfs 54.425 af Outflow=216.09 cfs 59.699 af

Pond 26P: Roseville Rd (Tributary) Peak Elev=131.27' Storage=1,957 cf Inflow=197.16 cfs 40.304 af
Primary=196.61 cfs 40.303 af Secondary=0.00 cfs 0.000 af Outflow=196.61 cfs 40.303 af

Pond 27P: Flood Storage Peak Elev=195.50' Storage=94,587 cf Inflow=53.42 cfs 13.582 af
Outflow=50.62 cfs 12.443 af

Pond 34P: Flow Change 1 (Sturges Hwy) Peak Elev=226.67' Storage=255,845 cf Inflow=86.82 cfs 33.585 af
Primary=10.77 cfs 15.793 af Secondary=76.20 cfs 17.499 af Outflow=84.85 cfs 33.292 af

Link 1L: Saugatuck River Inflow=1,338.32 cfs 574.978 af
Primary=1,338.32 cfs 574.978 af

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Time span=2.00-72.00 hrs, dt=0.03 hrs, 2334 points x 5
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment1S: DA 1	Runoff Area=5,463,090 sf 70.37% Impervious Runoff Depth=9.22" Flow Length=2,288' Tc=34.7 min CN=85 Runoff=516.83 cfs 96.376 af
Subcatchment2S: DA 2	Runoff Area=2,591,780 sf 30.87% Impervious Runoff Depth=6.65" Flow Length=1,764' Tc=39.7 min CN=66 Runoff=172.10 cfs 32.986 af
Subcatchment3S: DA 3	Runoff Area=745,440 sf 12.61% Impervious Runoff Depth=4.18" Flow Length=1,365' Tc=51.1 min CN=49 Runoff=25.82 cfs 5.960 af
Subcatchment3S A: DA 3A	Runoff Area=3,945,710 sf 24.42% Impervious Runoff Depth=7.21" Flow Length=1,600' Tc=89.7 min CN=70 Runoff=174.04 cfs 54.441 af
Subcatchment3S B: DA 3B	Runoff Area=1,364,980 sf 16.73% Impervious Runoff Depth=6.37" Flow Length=3,296' Tc=54.5 min CN=64 Runoff=72.15 cfs 16.633 af
Subcatchment3S C: DA 3C	Runoff Area=2,693,890 sf 16.18% Impervious Runoff Depth=7.07" Flow Length=1,054' Tc=24.6 min CN=69 Runoff=247.24 cfs 36.453 af
Subcatchment4S: DA 4	Runoff Area=8,004,580 sf 20.34% Impervious Runoff Depth=7.07" Flow Length=1,600' Tc=89.7 min CN=69 Runoff=346.63 cfs 108.316 af
Subcatchment5S: DA 5	Runoff Area=6,170,400 sf 17.29% Impervious Runoff Depth=6.51" Flow Length=3,139' Tc=35.6 min CN=65 Runoff=425.69 cfs 76.864 af
Subcatchment6S: DA 6	Runoff Area=1,301,860 sf 12.93% Impervious Runoff Depth=6.79" Flow Length=958' Tc=22.9 min CN=67 Runoff=119.79 cfs 16.920 af
Subcatchment7S: DA 7	Runoff Area=3,898,350 sf 15.48% Impervious Runoff Depth=8.03" Flow Length=4,667' Tc=51.5 min CN=76 Runoff=266.39 cfs 59.908 af
Subcatchment7S A: DA 7A	Runoff Area=1,084,650 sf 20.23% Impervious Runoff Depth=7.76" Flow Length=2,687' Tc=48.2 min CN=74 Runoff=74.74 cfs 16.106 af
Subcatchment7S B: DA 7B	Runoff Area=1,529,890 sf 18.31% Impervious Runoff Depth=8.17" Flow Length=2,715' Tc=43.9 min CN=77 Runoff=116.48 cfs 23.905 af
Subcatchment8S: DA 8	Runoff Area=3,171,590 sf 13.17% Impervious Runoff Depth=7.07" Flow Length=2,177' Tc=60.6 min CN=69 Runoff=174.44 cfs 42.917 af
Subcatchment9S: DA 9	Runoff Area=396,960 sf 13.68% Impervious Runoff Depth=8.70" Flow Length=1,255' Tc=29.7 min CN=81 Runoff=39.28 cfs 6.607 af
Subcatchment10S: DA 10	Runoff Area=3,842,170 sf 15.53% Impervious Runoff Depth=7.63" Flow Length=4,307' Tc=52.2 min CN=73 Runoff=246.75 cfs 56.049 af
Subcatchment11S: DA 11	Runoff Area=2,858,420 sf 17.44% Impervious Runoff Depth=7.63" Flow Length=919' Tc=103.2 min CN=73 Runoff=122.46 cfs 41.698 af
Subcatchment12S: DA 12	Runoff Area=3,888,950 sf 14.84% Impervious Runoff Depth=7.90" Flow Length=3,270' Tc=37.9 min CN=75 Runoff=310.45 cfs 58.757 af

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Subcatchment13S: DA 13	Runoff Area=1,678,500 sf 18.60% Impervious Runoff Depth=6.65" Flow Length=2,224' Tc=72.7 min CN=66 Runoff=77.82 cfs 21.363 af
Subcatchment14S: DA 14	Runoff Area=2,522,660 sf 13.88% Impervious Runoff Depth=7.07" Flow Length=1,623' Tc=51.5 min CN=69 Runoff=153.63 cfs 34.136 af
Subcatchment15S: DA 15	Runoff Area=1,360,960 sf 15.02% Impervious Runoff Depth=7.63" Flow Length=1,447' Tc=62.3 min CN=73 Runoff=79.44 cfs 19.854 af
Subcatchment16S: DA 16	Runoff Area=2,727,030 sf 10.43% Impervious Runoff Depth=6.23" Flow Length=2,368' Tc=100.7 min CN=63 Runoff=97.85 cfs 32.486 af
Subcatchment17S: DA 17	Runoff Area=234,970 sf 4.34% Impervious Runoff Depth=6.51" Flow Length=926' Tc=67.9 min CN=65 Runoff=11.17 cfs 2.927 af
Subcatchment18S: DA 18	Runoff Area=2,569,620 sf 15.46% Impervious Runoff Depth=7.49" Flow Length=2,207' Tc=167.5 min CN=72 Runoff=80.21 cfs 36.811 af
Subcatchment19S: DA 19	Runoff Area=1,959,990 sf 14.78% Impervious Runoff Depth=7.07" Flow Length=998' Tc=68.2 min CN=69 Runoff=100.24 cfs 26.522 af
Subcatchment20S: DA 20	Runoff Area=3,181,660 sf 6.78% Impervious Runoff Depth=6.79" Flow Length=2,232' Tc=96.8 min CN=67 Runoff=127.40 cfs 41.351 af
Subcatchment21S: DA 21	Runoff Area=3,559,430 sf 5.66% Impervious Runoff Depth=7.49" Flow Length=2,337' Tc=142.9 min CN=72 Runoff=122.88 cfs 50.991 af
Reach 1R: Jesup Rd - River	Avg. Flow Depth=4.60' Max Vel=4.24 fps Inflow=1,826.87 cfs 777.120 af L=1,005.0' S=0.0011 '/' Capacity=23,631.23 cfs Outflow=1,821.76 cfs 777.120 af
Reach 2R: Dam - Myrtle Ave	Avg. Flow Depth=5.66' Max Vel=6.31 fps Inflow=1,767.02 cfs 744.130 af L=1,130.0' S=0.0075 '/' Capacity=45,055.89 cfs Outflow=1,761.22 cfs 744.130 af
Reach 3R: Flow Change 11 (Trib -	Avg. Flow Depth=6.14' Max Vel=4.45 fps Inflow=1,774.64 cfs 738.283 af L=522.0' S=0.0038 '/' Capacity=18,789.78 cfs Outflow=1,772.85 cfs 738.283 af
Reach 4R: Evergreen Ave - N Compo Rd	Avg. Flow Depth=4.90' Max Vel=6.87 fps Inflow=1,453.30 cfs 629.968 af L=853.0' S=0.0136 '/' Capacity=13,648.48 cfs Outflow=1,450.69 cfs 629.968 af
Reach 5R: N Compo Rd - Deerwood Ln	Avg. Flow Depth=4.08' Max Vel=13.61 fps Inflow=1,229.45 cfs 553.105 af L=1,603.0' S=0.0277 '/' Capacity=43,905.71 cfs Outflow=1,227.49 cfs 553.105 af
Reach 6R: Deerwood Ln - Trib	Avg. Flow Depth=3.90' Max Vel=12.39 fps Inflow=1,260.36 cfs 553.110 af L=100.0' S=0.0450 '/' Capacity=52,215.56 cfs Outflow=1,260.41 cfs 553.110 af
Reach 7R: Flow Change 9 (Tributary)	Inflow=1,260.36 cfs 553.110 af Outflow=1,260.36 cfs 553.110 af
Reach 8R: Trib - Roseville Rd 1	Avg. Flow Depth=2.67' Max Vel=17.91 fps Inflow=1,220.38 cfs 536.190 af L=131.0' S=0.0519 '/' Capacity=189,609.23 cfs Outflow=1,220.36 cfs 536.190 af
Reach 9R: Trib - Roseville Rd 2	Avg. Flow Depth=2.61' Max Vel=32.91 fps Inflow=964.35 cfs 476.283 af L=101.0' S=0.2208 '/' Capacity=8,554.43 cfs Outflow=964.35 cfs 476.283 af

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Reach 10R: Trib - Roseville Rd 3	Avg. Flow Depth=2.48' Max Vel=10.16 fps Inflow=964.35 cfs 476.283 af L=239.0' S=0.0168 '/' Capacity=5,983.07 cfs Outflow=964.35 cfs 476.283 af
Reach 11R: Roseville Rd - Leslie Dr	Avg. Flow Depth=2.20' Max Vel=5.13 fps Inflow=799.85 cfs 433.367 af L=981.0' S=0.0139 '/' Capacity=97,574.36 cfs Outflow=791.67 cfs 433.366 af
Reach 12R: Leslie Dr - Pumpkin Hill Rd	Avg. Flow Depth=2.24' Max Vel=13.50 fps Inflow=532.75 cfs 370.713 af L=386.0' S=0.0392 '/' Capacity=26,732.62 cfs Outflow=532.68 cfs 370.713 af
Reach 13R: Flow Change 7 (Tributary)	Inflow=534.19 cfs 370.716 af Outflow=534.19 cfs 370.716 af
Reach 14R: Pleasant Valley DB 2 - North	Avg. Flow Depth=0.70' Max Vel=8.72 fps Inflow=466.60 cfs 329.204 af L=238.0' S=0.0508 '/' Capacity=44,269.29 cfs Outflow=466.54 cfs 329.204 af
Reach 15R: North Ave - Melon Patch Ln	Avg. Flow Depth=3.79' Max Vel=4.87 fps Inflow=403.24 cfs 270.447 af L=619.0' S=0.0064 '/' Capacity=1,460.39 cfs Outflow=392.42 cfs 270.447 af
Reach 16R: Melon Patch Ln - Cross Hwy	Avg. Flow Depth=3.01' Max Vel=7.01 fps Inflow=392.57 cfs 270.447 af L=1,042.0' S=0.0115 '/' Capacity=1,748.35 cfs Outflow=392.49 cfs 270.447 af
Reach 17R: Flow Change 6 (Tributary)	Inflow=396.06 cfs 270.558 af Outflow=396.06 cfs 270.558 af
Reach 18R: Trib - Vineyard Ln	Avg. Flow Depth=3.37' Max Vel=1.98 fps Inflow=357.60 cfs 216.202 af L=600.0' S=0.0020 '/' Capacity=5,536.26 cfs Outflow=357.16 cfs 216.201 af
Reach 19R: Flow Change 5 (Tributary)	Inflow=357.60 cfs 216.202 af Outflow=357.60 cfs 216.202 af
Reach 20R: Vineyard Ln - Trib	Avg. Flow Depth=4.02' Max Vel=3.00 fps Inflow=357.65 cfs 216.202 af L=325.0' S=0.0031 '/' Capacity=1,274.13 cfs Outflow=357.60 cfs 216.202 af
Reach 21R: Flow Change 4 (Tributary)	Inflow=389.05 cfs 196.349 af Outflow=389.05 cfs 196.349 af
Reach 22R: Vineyard Ln - Trib	Avg. Flow Depth=2.27' Max Vel=2.68 fps Inflow=314.42 cfs 163.862 af L=284.0' S=0.0035 '/' Capacity=4,101.88 cfs Outflow=314.26 cfs 163.862 af
Reach 23R: Cardinal Rd - Highland Rd	Avg. Flow Depth=2.99' Max Vel=4.03 fps Inflow=245.03 cfs 124.127 af L=1,504.0' S=0.0048 '/' Capacity=12,543.77 cfs Outflow=232.03 cfs 124.126 af
Reach 24R: Tupelo Rd - Cardinal Rd	Avg. Flow Depth=3.34' Max Vel=4.39 fps Inflow=281.74 cfs 124.128 af L=705.0' S=0.0072 '/' Capacity=14,683.69 cfs Outflow=245.33 cfs 124.127 af
Reach 25R: Flow Change 2 (Tributary)	Inflow=173.19 cfs 92.046 af Outflow=173.19 cfs 92.046 af
Reach 31R: Flow Change	Inflow=311.97 cfs 160.935 af Outflow=311.97 cfs 160.935 af
Reach 32R: Flow Change	Inflow=1,767.02 cfs 744.130 af Outflow=1,767.02 cfs 744.130 af

16C6016-Existing*CT - Norwalk 24-hr S1 500-yr Rainfall=11.09"*

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Reach 33R: Sturges Hwy - TribAvg. Flow Depth=2.98' Max Vel=0.38 fps Inflow=121.43 cfs 50.698 af
L=1,014.0' S=0.0002 ' Capacity=1,687.45 cfs Outflow=104.10 cfs 50.696 af**Reach 38R: Flow Change**Inflow=799.85 cfs 433.367 af
Outflow=799.85 cfs 433.367 af**Pond 1P: Jesup Rd**Peak Elev=12.03' Storage=346,545 cf Inflow=1,829.79 cfs 777.125 af
Primary=1,065.08 cfs 701.902 af Secondary=761.78 cfs 75.218 af Outflow=1,826.87 cfs 777.120 af**Pond 2P: Route 1**Peak Elev=15.05' Storage=70,359 cf Inflow=1,830.04 cfs 777.117 af
Primary=803.64 cfs 656.530 af Secondary=1,072.20 cfs 120.596 af Outflow=1,829.79 cfs 777.117 af**Pond 3P: Flow Change 12 (Myrtle Ave)**Peak Elev=15.42' Storage=196,219 cf Inflow=1,834.79 cfs 777.117 af
Primary=271.60 cfs 314.321 af Secondary=1,728.38 cfs 462.795 af Outflow=1,830.04 cfs 777.117 af**Pond 4P: Driveway Dam**Peak Elev=31.77' Storage=737,979 cf Inflow=1,772.85 cfs 738.283 af
Primary=430.69 cfs 219.022 af Secondary=1,318.29 cfs 519.148 af Outflow=1,748.98 cfs 738.170 af**Pond 5P: Evergreen Ave**Peak Elev=32.96' Storage=277,336 cf Inflow=1,450.69 cfs 629.968 af
Primary=378.03 cfs 433.476 af Secondary=1,084.92 cfs 196.492 af Outflow=1,442.21 cfs 629.968 af**Pond 6P: Flow Change 10 (N Compo Rd)**Peak Elev=44.05' Storage=65,884 cf Inflow=1,454.01 cfs 629.969 af
Primary=536.82 cfs 504.130 af Secondary=916.68 cfs 125.838 af Outflow=1,453.30 cfs 629.968 af**Pond 7P: Deerwood Ln**Peak Elev=93.78' Storage=389,744 cf Inflow=1,260.41 cfs 553.110 af
Primary=594.84 cfs 450.041 af Secondary=634.64 cfs 103.064 af Outflow=1,229.45 cfs 553.105 af**Pond 8P: Flow Change 8 (Roseville Rd)**Peak Elev=134.81' Storage=81,902 cf Inflow=966.08 cfs 476.283 af
Primary=324.12 cfs 351.568 af Secondary=640.25 cfs 124.715 af Outflow=964.35 cfs 476.283 af**Pond 9P: Leslie Dr**Peak Elev=146.37' Storage=39,935 cf Inflow=778.28 cfs 426.762 af
Primary=209.59 cfs 252.180 af Secondary=568.54 cfs 174.580 af Outflow=778.12 cfs 426.760 af**Pond 10P: Pumpkin Hill Rd**Peak Elev=164.59' Storage=125,334 cf Inflow=534.19 cfs 370.716 af
Primary=233.86 cfs 262.390 af Secondary=298.89 cfs 108.322 af Outflow=532.75 cfs 370.713 af**Pond 11P: Pleasant Valley Driveway Bridge 1**Peak Elev=166.92' Storage=108,091 cf Inflow=468.18 cfs 329.202 af
Primary=151.52 cfs 186.979 af Secondary=312.31 cfs 142.038 af Outflow=463.83 cfs 329.017 af**Pond 12P: Pleasant Valley Driveway Bridge 2**Peak Elev=170.02' Storage=107,843 cf Inflow=466.54 cfs 329.204 af
Primary=145.70 cfs 190.822 af Secondary=324.17 cfs 138.380 af Outflow=468.18 cfs 329.202 af**Pond 13P: Flow Change 6 (North Ave)**Peak Elev=181.95' Storage=128,789 cf Inflow=470.47 cfs 329.204 af
Primary=253.24 cfs 263.010 af Secondary=213.35 cfs 66.194 af Outflow=466.60 cfs 329.204 af**Pond 14P: Melon Patch Ln**Peak Elev=188.60' Storage=161,384 cf Inflow=392.49 cfs 270.447 af
Primary=272.73 cfs 237.385 af Secondary=130.51 cfs 33.062 af Outflow=403.24 cfs 270.447 af**Pond 15P: Cross Hwy**Peak Elev=196.52' Storage=310,581 cf Inflow=396.06 cfs 270.558 af
Primary=201.66 cfs 208.114 af Secondary=200.55 cfs 62.333 af Outflow=392.57 cfs 270.447 af**Pond 16P: Silent Grove**Peak Elev=197.06' Storage=190,911 cf Inflow=352.61 cfs 216.200 af
Primary=236.87 cfs 196.502 af Secondary=114.29 cfs 19.697 af Outflow=351.16 cfs 216.199 af

16C6016-Existing*CT - Norwalk 24-hr S1 500-yr Rainfall=11.09"*

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Pond 17P: Half Mile Com Peak Elev=197.35' Storage=248,379 cf Inflow=356.07 cfs 216.201 af
Primary=153.92 cfs 122.989 af Secondary=294.65 cfs 93.212 af Outflow=352.61 cfs 216.200 af

Pond 18P: Vineyard Ln Peak Elev=198.67' Storage=173,000 cf Inflow=357.16 cfs 216.201 af
Primary=160.91 cfs 150.334 af Secondary=232.75 cfs 65.867 af Outflow=356.07 cfs 216.201 af

Pond 19P: Vineyard Ln Peak Elev=204.00' Storage=625,914 cf Inflow=389.05 cfs 196.349 af
Primary=240.60 cfs 176.866 af Secondary=98.99 cfs 19.483 af Outflow=339.58 cfs 196.349 af

Pond 20P: Flow Change 3 (Bayberry Ln) Peak Elev=207.00' Storage=92,992 cf Inflow=316.16 cfs 163.862 af
Primary=59.48 cfs 72.857 af Secondary=254.94 cfs 91.006 af Outflow=314.42 cfs 163.862 af

Pond 21P: Highland Rd Peak Elev=208.04' Storage=2,888 cf Inflow=232.03 cfs 124.126 af
Primary=19.28 cfs 35.220 af Secondary=212.75 cfs 88.904 af Outflow=232.03 cfs 124.124 af

Pond 22P: Cardinal Rd Peak Elev=218.76' Storage=23,106 cf Inflow=245.33 cfs 124.127 af
Primary=85.38 cfs 89.040 af Secondary=166.14 cfs 35.087 af Outflow=245.03 cfs 124.127 af

Pond 23P: Tupelo Rd Peak Elev=224.81' Storage=111,802 cf Inflow=357.87 cfs 124.118 af
Primary=29.92 cfs 48.774 af Secondary=255.70 cfs 75.353 af Outflow=281.74 cfs 124.118 af

Pond 24P: Tupelo Rd Peak Elev=224.79' Storage=284,951 cf Inflow=173.19 cfs 92.046 af
Primary=19.81 cfs 12.788 af Secondary=301.19 cfs 84.808 af Outflow=305.97 cfs 92.000 af

Pond 26P: Roseville Rd (Tributary) Peak Elev=132.99' Storage=19,387 cf Inflow=266.39 cfs 59.908 af
Primary=256.59 cfs 59.907 af Secondary=0.00 cfs 0.000 af Outflow=256.59 cfs 59.907 af

Pond 27P: Flood Storage Peak Elev=195.63' Storage=108,626 cf Inflow=77.82 cfs 21.363 af
Outflow=74.64 cfs 20.223 af

Pond 34P: Flow Change 1 (Sturges Hwy) Peak Elev=226.76' Storage=271,581 cf Inflow=122.88 cfs 50.991 af
Primary=10.68 cfs 16.822 af Secondary=114.68 cfs 33.876 af Outflow=121.43 cfs 50.698 af

Link 1L: Saugatuck River Inflow=1,970.91 cfs 873.496 af
Primary=1,970.91 cfs 873.496 af

Appendix C – Existing Conditions Model HEC-RAS Output

- Deadman Brook Output Table for All Storm Events
- Deadman Brook Tributaries Output Table for All Storm Events

Deadman Brook Existing Conditions

HEC-RAS Plan: Existing

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
US Route 1-DS09	23460	2-Year	19.78	224.20	226.65		226.65	0.000000	0.04	707.62	445.61	0.00
US Route 1-DS09	23460	10-Year	44.12	224.20	226.78		226.78	0.000002	0.08	767.30	450.04	0.01
US Route 1-DS09	23460	25-Year	60.58	224.20	226.83		226.83	0.000003	0.11	789.91	451.70	0.01
US Route 1-DS09	23460	50-Year	73.72	224.20	226.89		226.89	0.000004	0.13	815.22	453.55	0.01
US Route 1-DS09	23460	100-Year	86.82	224.20	226.98		226.98	0.000005	0.14	856.22	462.61	0.02
US Route 1-DS09	23460	500-Year	122.88	224.20	227.17		227.17	0.000008	0.18	945.47	469.48	0.02
US Route 1-DS09	23370	2-Year	19.78	224.40	226.65	225.08	226.65	0.000003	0.09	397.73	283.53	0.01
US Route 1-DS09	23370	10-Year	44.12	224.40	226.78	225.24	226.78	0.000012	0.18	435.67	287.78	0.02
US Route 1-DS09	23370	25-Year	60.58	224.40	226.83	225.31	226.83	0.000021	0.24	449.99	289.37	0.03
US Route 1-DS09	23370	50-Year	73.72	224.40	226.89	225.36	226.89	0.000028	0.29	466.11	291.14	0.03
US Route 1-DS09	23370	100-Year	86.82	224.40	226.98	225.40	226.98	0.000033	0.32	492.22	294.00	0.04
US Route 1-DS09	23370	500-Year	122.88	224.40	227.17	225.51	227.17	0.000052	0.43	581.93	502.88	0.05
US Route 1-DS09	23330	2-Year	19.78	222.00	226.65	222.73	226.65	0.000003	0.12	516.92	525.26	0.01
US Route 1-DS09	23330	10-Year	44.12	222.00	226.78	223.32	226.78	0.000011	0.23	560.71	533.55	0.02
US Route 1-DS09	23330	25-Year	60.58	222.00	226.83	223.66	226.83	0.000020	0.31	577.20	536.64	0.02
US Route 1-DS09	23330	50-Year	73.72	222.00	226.89	223.86	226.89	0.000027	0.36	595.77	540.10	0.03
US Route 1-DS09	23330	100-Year	86.82	222.00	226.97	224.04	226.98	0.000032	0.40	625.93	545.67	0.03
US Route 1-DS09	23330	500-Year	122.88	222.00	227.16	224.32	227.16	0.000048	0.51	690.96	553.88	0.04
US Route 1-DS09	23295 Sturges Hwy		Culvert									
US Route 1-DS09	23260	2-Year	19.78	223.20	225.80	223.62	225.80	0.000016	0.24	160.90	148.97	0.03
US Route 1-DS09	23260	10-Year	44.12	223.20	226.22	223.91	226.22	0.000035	0.39	230.65	188.94	0.04
US Route 1-DS09	23260	25-Year	60.58	223.20	226.43	224.08	226.43	0.000045	0.46	274.15	212.06	0.05
US Route 1-DS09	23260	50-Year	73.72	223.20	226.56	224.22	226.56	0.000054	0.52	301.44	225.35	0.05
US Route 1-DS09	23260	100-Year	86.82	223.20	226.76	224.34	226.77	0.000054	0.54	350.53	247.48	0.05
US Route 1-DS09	23260	500-Year	122.88	223.20	227.15	224.66	227.16	0.000059	0.61	454.19	283.64	0.05
US Route 1-DS09	23230	2-Year	19.78	223.80	225.80	224.11	225.80	0.000020	0.23	140.10	148.50	0.03
US Route 1-DS09	23230	10-Year	44.12	223.80	226.21	224.29	226.22	0.000036	0.34	221.02	216.82	0.04
US Route 1-DS09	23230	25-Year	60.58	223.80	226.43	224.37	226.43	0.000040	0.39	269.35	229.02	0.04
US Route 1-DS09	23230	50-Year	73.72	223.80	226.56	224.44	226.56	0.000045	0.42	298.32	236.03	0.05
US Route 1-DS09	23230	100-Year	86.82	223.80	226.76	224.49	226.77	0.000041	0.42	348.57	247.73	0.04
US Route 1-DS09	23230	500-Year	122.88	223.80	227.15	224.64	227.15	0.000043	0.47	456.03	312.30	0.05
US Route 1-DS09	23145	2-Year	19.78	221.90	225.80	222.76	225.80	0.000006	0.15	157.83	148.07	0.02
US Route 1-DS09	23145	10-Year	44.12	221.90	226.21	223.18	226.21	0.000012	0.23	220.49	171.01	0.02
US Route 1-DS09	23145	25-Year	60.58	221.90	226.43	223.40	226.43	0.000014	0.27	258.46	179.73	0.03
US Route 1-DS09	23145	50-Year	73.72	221.90	226.55	223.56	226.56	0.000017	0.30	281.11	184.74	0.03
US Route 1-DS09	23145	100-Year	86.82	221.90	226.76	223.70	226.76	0.000016	0.31	320.38	193.11	0.03
US Route 1-DS09	23145	500-Year	122.88	221.90	227.15	224.01	227.15	0.000018	0.34	398.99	212.36	0.03
US Route 1-DS09	23125 Driveway Bridge		Culvert									
US Route 1-DS09	23105	2-Year	19.78	221.80	225.80		225.80	0.000019	0.23	186.60	135.54	0.02
US Route 1-DS09	23105	10-Year	44.12	221.80	226.21		226.21	0.000043	0.36	245.05	143.21	0.03
US Route 1-DS09	23105	25-Year	60.58	221.80	226.41		226.41	0.000058	0.43	273.77	145.73	0.04
US Route 1-DS09	23105	50-Year	73.72	221.80	226.55		226.55	0.000069	0.48	294.51	147.53	0.04
US Route 1-DS09	23105	100-Year	86.82	221.80	226.76		226.76	0.000071	0.50	325.13	150.14	0.04
US Route 1-DS09	23105	500-Year	122.88	221.80	227.11		227.11	0.000112	0.66	381.69	187.64	0.05
US Route 1-DS09	22980	2-Year	16.42	223.20	225.79		225.79	0.000011	0.20	116.33	74.21	0.02
US Route 1-DS09	22980	10-Year	45.02	223.20	226.21		226.21	0.000048	0.46	153.81	108.45	0.05
US Route 1-DS09	22980	25-Year	65.02	223.20	226.40		226.40	0.000076	0.60	175.16	111.40	0.06
US Route 1-DS09	22980	50-Year	80.66	223.20	226.54		226.54	0.000097	0.70	190.68	113.50	0.07
US Route 1-DS09	22980	100-Year	102.92	223.20	226.74		226.75	0.000121	0.82	213.91	116.57	0.08
US Route 1-DS09	22980	500-Year	173.19	223.20	227.07		227.08	0.000232	1.21	253.04	122.01	0.11
US Route 1-DS09	22875	2-Year	16.42	223.00	225.79	223.23	225.79	0.000002	0.09	210.98	136.54	0.01
US Route 1-DS09	22875	10-Year	45.02	223.00	226.20	223.40	226.21	0.000008	0.20	270.91	152.20	0.02
US Route 1-DS09	22875	25-Year	65.02	223.00	226.40	223.49	226.40	0.000013	0.26	300.98	157.18	0.03
US Route 1-DS09	22875	50-Year	80.66	223.00	226.54	223.55	226.54	0.000016	0.30	322.93	160.72	0.03
US Route 1-DS09	22875	100-Year	102.92	223.00	226.74	223.64	226.74	0.000020	0.35	355.95	165.90	0.03
US Route 1-DS09	22875	500-Year	173.19	223.00	227.07	223.87	227.07	0.000037	0.51	412.01	174.28	0.04
US Route 1-DS09	22855	2-Year	16.42	222.47	225.79	222.85	225.79	0.000009	0.20	184.26	137.45	0.02
US Route 1-DS09	22855	10-Year	45.02	222.47	226.20	223.23	226.20	0.000034	0.43	245.97	162.69	0.04
US Route 1-DS09	22855	25-Year	65.02	222.47	226.40	223.47	226.40	0.000052	0.55	277.88	166.92	0.05
US Route 1-DS09	22855	50-Year	80.66	222.47	226.53	223.61	226.54	0.000066	0.63	301.06	169.92	0.06
US Route 1-DS09	22855	100-Year	102.92	222.47	226.74	223.79	226.74	0.000080	0.72	335.78	174.32	0.06
US Route 1-DS09	22855	500-Year	173.19	222.47	227.06	224.21	227.07	0.000149	1.03	393.99	182.03	0.08
US Route 1-DS09	22842.9 Footbridge		Bridge									
US Route 1-DS09	22830	2-Year	16.42	222.47	225.79	222.85	225.79	0.000016	0.26	137.24	140.74	0.02
US Route 1-DS09	22830	10-Year	45.02	222.47	226.20	223.22	226.20	0.000057	0.52	203.07	170.84	0.05
US Route 1-DS09	22830	25-Year	65.02	222.47	226.39	223.43	226.40	0.000082	0.65	236.29	174.52	0.06
US Route 1-DS09	22830	50-Year	80.66	222.47	226.53	223.58	226.53	0.000100	0.74	260.34	177.13	0.06
US Route 1-DS09	22830	100-Year	102.92	222.47	226.73	223.77	226.74	0.000118	0.82	296.34	180.97	0.07
US Route 1-DS09	22830	500-Year	173.19	222.47	227.05	224.36	227.06	0.000210	1.16	356.06	193.28	0.10

Deadman Brook Existing Conditions

HEC-RAS Plan: Existing (Continued)

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
US Route 1-DS09	22810	2-Year	16.42	223.20	225.79	223.76	225.79	0.000021	0.27	137.59	156.84	0.03
US Route 1-DS09	22810	10-Year	45.02	223.20	226.20	224.08	226.20	0.000063	0.51	206.57	176.47	0.05
US Route 1-DS09	22810	25-Year	65.02	223.20	226.39	224.26	226.39	0.000089	0.64	240.79	180.18	0.07
US Route 1-DS09	22810	50-Year	80.66	223.20	226.53	224.38	226.53	0.000105	0.72	265.57	182.82	0.07
US Route 1-DS09	22810	100-Year	102.92	223.20	226.73	224.55	226.73	0.000121	0.80	302.65	186.70	0.08
US Route 1-DS09	22810	500-Year	173.19	223.20	227.05	225.12	227.06	0.000208	1.12	363.59	193.01	0.10
US Route 1-DS09	22610	2-Year	16.42	223.20	225.79		225.79	0.000010	0.19	188.21	173.09	0.02
US Route 1-DS09	22610	10-Year	45.02	223.20	226.19		226.19	0.000033	0.38	261.41	187.82	0.04
US Route 1-DS09	22610	25-Year	65.02	223.20	226.38		226.38	0.000048	0.48	297.11	191.50	0.05
US Route 1-DS09	22610	50-Year	80.66	223.20	226.51		226.52	0.000058	0.54	322.96	194.12	0.05
US Route 1-DS09	22610	100-Year	102.92	223.20	226.71		226.71	0.000069	0.62	361.83	197.99	0.06
US Route 1-DS09	22610	500-Year	173.19	223.20	227.02		227.03	0.000124	0.88	423.81	204.06	0.08
US Route 1-DS09	22410	2-Year	16.42	223.20	225.79		225.79	0.000004	0.12	341.21	274.53	0.01
US Route 1-DS09	22410	10-Year	45.02	223.20	226.19		226.19	0.000014	0.25	452.00	280.16	0.03
US Route 1-DS09	22410	25-Year	65.02	223.20	226.37		226.37	0.000022	0.32	504.47	282.73	0.03
US Route 1-DS09	22410	50-Year	80.66	223.20	226.51		226.51	0.000027	0.37	542.12	284.56	0.04
US Route 1-DS09	22410	100-Year	102.92	223.20	226.70		226.70	0.000033	0.43	598.43	287.28	0.04
US Route 1-DS09	22410	500-Year	173.19	223.20	227.00		227.01	0.000063	0.62	685.62	291.43	0.06
US Route 1-DS08	22200	2-Year	18.29	223.20	225.79		225.79	0.000003	0.10	467.61	290.99	0.01
US Route 1-DS08	22200	10-Year	101.96	223.20	226.18		226.18	0.000044	0.43	583.33	298.30	0.05
US Route 1-DS08	22200	25-Year	147.88	223.20	226.36		226.37	0.000070	0.57	638.25	302.96	0.06
US Route 1-DS08	22200	50-Year	202.30	223.20	226.49		226.49	0.000110	0.73	677.13	306.21	0.07
US Route 1-DS08	22200	100-Year	242.11	223.20	226.69		226.69	0.000121	0.80	737.30	311.18	0.08
US Route 1-DS08	22200	500-Year	357.87	223.20	226.98		226.98	0.000185	1.04	828.88	318.59	0.10
US Route 1-DS08	22000	2-Year	18.29	223.00	225.79	223.47	225.79	0.000001	0.07	569.16	328.18	0.01
US Route 1-DS08	22000	10-Year	101.96	223.00	226.17	223.88	226.18	0.000024	0.32	701.05	355.71	0.03
US Route 1-DS08	22000	25-Year	147.88	223.00	226.35	224.12	226.35	0.000038	0.43	765.05	359.96	0.04
US Route 1-DS08	22000	50-Year	202.30	223.00	226.48	224.24	226.48	0.000060	0.55	809.11	362.87	0.05
US Route 1-DS08	22000	100-Year	242.11	223.00	226.67	224.30	226.67	0.000067	0.61	879.67	367.47	0.06
US Route 1-DS08	22000	500-Year	357.87	223.00	226.95	224.44	226.95	0.000103	0.80	984.02	374.09	0.07
US Route 1-DS08	21980	2-Year	18.29	222.33	225.79	222.89	225.79	0.000001	0.08	662.48	334.35	0.01
US Route 1-DS08	21980	10-Year	101.96	222.33	226.17	224.00	226.17	0.000022	0.35	796.88	362.49	0.03
US Route 1-DS08	21980	25-Year	147.88	222.33	226.35	224.00	226.35	0.000036	0.46	862.00	366.47	0.04
US Route 1-DS08	21980	50-Year	202.30	222.33	226.47	224.00	226.48	0.000057	0.60	906.75	369.18	0.05
US Route 1-DS08	21980	100-Year	242.11	222.33	226.67	224.01	226.67	0.000064	0.65	978.47	373.49	0.06
US Route 1-DS08	21980	500-Year	357.87	222.33	226.95	224.15	226.95	0.000100	0.85	1084.30	379.67	0.07
US Route 1-DS08	21968.01 Footbridge		Bridge									
US Route 1-DS08	21955	2-Year	18.29	222.33	225.79	223.44	225.79	0.000004	0.11	271.40	252.13	0.01
US Route 1-DS08	21955	10-Year	101.96	222.33	226.17	224.57	226.17	0.000044	0.40	372.55	276.07	0.04
US Route 1-DS08	21955	25-Year	147.88	222.33	226.35	224.68	226.35	0.000064	0.50	422.64	289.60	0.04
US Route 1-DS08	21955	50-Year	202.30	222.33	226.47	224.88	226.47	0.000096	0.62	457.72	298.71	0.05
US Route 1-DS08	21955	100-Year	242.11	222.33	226.66	224.95	226.67	0.000097	0.65	516.70	313.43	0.05
US Route 1-DS08	21955	500-Year	357.87	222.33	226.94	225.16	226.95	0.000134	0.79	606.61	334.62	0.06
US Route 1-DS08	21935	2-Year	18.29	222.80	225.79		225.79	0.000001	0.07	354.43	258.32	0.01
US Route 1-DS08	21935	10-Year	101.96	222.80	226.17		226.17	0.000023	0.33	460.95	297.00	0.03
US Route 1-DS08	21935	25-Year	147.88	222.80	226.35		226.35	0.000034	0.43	514.25	305.49	0.04
US Route 1-DS08	21935	50-Year	202.30	222.80	226.47		226.47	0.000053	0.54	550.96	311.25	0.05
US Route 1-DS08	21935	100-Year	242.11	222.80	226.66		226.66	0.000055	0.57	611.82	320.58	0.05
US Route 1-DS08	21935	500-Year	357.87	222.80	226.94		226.94	0.000080	0.73	702.53	333.99	0.07
US Route 1-DS08	21720	2-Year	18.29	222.60	225.79		225.79	0.000001	0.07	573.31	413.11	0.01
US Route 1-DS08	21720	10-Year	101.96	222.60	226.17		226.17	0.000018	0.32	731.58	417.81	0.03
US Route 1-DS08	21720	25-Year	147.88	222.60	226.34		226.34	0.000029	0.42	804.74	419.57	0.04
US Route 1-DS08	21720	50-Year	202.30	222.60	226.46		226.46	0.000046	0.54	853.34	420.74	0.05
US Route 1-DS08	21720	100-Year	242.11	222.60	226.65		226.65	0.000051	0.58	934.30	422.67	0.05
US Route 1-DS08	21720	500-Year	357.87	222.60	226.92		226.93	0.000078	0.76	1049.76	425.41	0.07
US Route 1-DS08	21340	2-Year	18.29	222.60	225.79	222.74	225.79	0.000001	0.06	349.49	172.43	0.01
US Route 1-DS08	21340	10-Year	101.96	222.60	226.16	223.04	226.16	0.000012	0.26	425.22	207.74	0.02
US Route 1-DS08	21340	25-Year	147.88	222.60	226.33	223.15	226.33	0.000020	0.35	461.02	212.12	0.03
US Route 1-DS08	21340	50-Year	202.30	222.60	226.44	223.28	226.44	0.000033	0.46	484.31	214.92	0.04
US Route 1-DS08	21340	100-Year	242.11	222.60	226.63	223.37	226.63	0.000038	0.51	525.53	219.79	0.05
US Route 1-DS08	21340	500-Year	357.87	222.60	226.89	223.59	226.90	0.000063	0.68	583.58	226.47	0.06
US Route 1-DS08	21320	2-Year	18.29	220.11	225.79	221.02	225.79	0.000003	0.18	142.11	85.20	0.01
US Route 1-DS08	21320	10-Year	101.96	220.11	226.15	221.88	226.16	0.000073	0.85	178.47	149.84	0.07
US Route 1-DS08	21320	25-Year	147.88	220.11	226.31	222.18	226.33	0.000129	1.16	199.09	180.80	0.09
US Route 1-DS08	21320	50-Year	202.30	220.11	226.41	222.51	226.43	0.000216	1.51	212.72	199.14	0.11
US Route 1-DS08	21320	100-Year	242.11	220.11	226.59	222.72	226.62	0.000247	1.65	242.00	234.53	0.12
US Route 1-DS08	21320	500-Year	357.87	220.11	226.83	223.29	226.88	0.000398	2.16	285.50	280.45	0.16
US Route 1-DS08	21290 Tupelo Rd		Culvert									
US Route 1-DS08	21260	2-Year	18.29	220.66	225.78	221.27	225.78	0.000002	0.10	235.27	178.30	0.01
US Route 1-DS08	21260	10-Year	101.96	220.66	226.06	222.02	226.07	0.000033	0.50	276.91	198.62	0.04

Deadman Brook Existing Conditions

HEC-RAS Plan: Existing (Continued)

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
US Route 1-DS08	21260	25-Year	147.88	220.66	226.26	222.33	226.27	0.000055	0.66	306.71	221.25	0.05
US Route 1-DS08	21260	50-Year	202.30	220.66	226.39	222.65	226.40	0.000089	0.85	326.36	235.72	0.07
US Route 1-DS08	21260	100-Year	242.11	220.66	226.51	222.89	226.53	0.000110	0.96	346.94	250.51	0.08
US Route 1-DS08	21260	500-Year	357.87	220.66	226.78	223.10	226.80	0.000179	1.27	391.89	281.65	0.10
US Route 1-DS08	21240	2-Year	18.29	222.60	225.78	222.80	225.78	0.000001	0.07	301.77	213.20	0.01
US Route 1-DS08	21240	10-Year	101.96	222.60	226.07	223.10	226.07	0.000019	0.33	342.72	251.18	0.03
US Route 1-DS08	21240	25-Year	147.88	222.60	226.26	223.10	226.26	0.000032	0.44	372.43	265.32	0.04
US Route 1-DS08	21240	50-Year	202.30	222.60	226.39	223.20	226.39	0.000051	0.57	391.92	274.45	0.05
US Route 1-DS08	21240	100-Year	242.11	222.60	226.52	223.28	226.52	0.000064	0.65	412.16	283.76	0.06
US Route 1-DS08	21240	500-Year	357.87	222.60	226.79	223.47	226.80	0.000106	0.88	456.04	303.38	0.08
US Route 1-DS08	21070	2-Year	18.29	222.60	225.78		225.78	0.000001	0.08	248.00	242.47	0.01
US Route 1-DS08	21070	10-Year	101.96	222.60	226.06		226.06	0.000029	0.40	308.29	294.64	0.04
US Route 1-DS08	21070	25-Year	147.88	222.60	226.25		226.26	0.000048	0.53	352.22	302.55	0.05
US Route 1-DS08	21070	50-Year	202.30	222.60	226.38		226.38	0.000077	0.70	380.27	306.30	0.06
US Route 1-DS08	21070	100-Year	242.11	222.60	226.50		226.51	0.000096	0.79	409.68	310.19	0.07
US Route 1-DS08	21070	500-Year	357.87	222.60	226.76		226.78	0.000156	1.06	472.21	318.28	0.09
US Route 1-DS08	20925	2-Year	18.29	222.40	225.78		225.78	0.000000	0.05	492.38	450.50	0.00
US Route 1-DS08	20925	10-Year	101.96	222.40	226.06		226.06	0.000008	0.22	627.93	496.39	0.02
US Route 1-DS08	20925	25-Year	147.88	222.40	226.25		226.25	0.000013	0.29	724.27	500.42	0.03
US Route 1-DS08	20925	50-Year	202.30	222.40	226.37		226.38	0.000021	0.37	784.97	502.95	0.03
US Route 1-DS08	20925	100-Year	242.11	222.40	226.50		226.50	0.000025	0.41	848.34	505.57	0.04
US Route 1-DS08	20925	500-Year	357.87	222.40	226.76		226.77	0.000038	0.53	981.47	511.04	0.05
US Route 1-DS08	20755	2-Year	29.80	222.60	225.78	222.75	225.78	0.000001	0.08	434.47	202.92	0.01
US Route 1-DS08	20755	10-Year	67.53	222.60	226.06	222.85	226.06	0.000004	0.16	498.57	299.24	0.02
US Route 1-DS08	20755	25-Year	116.25	222.60	226.25	222.95	226.25	0.000010	0.25	556.43	302.60	0.02
US Route 1-DS08	20755	50-Year	155.33	222.60	226.37	223.03	226.37	0.000016	0.32	592.85	304.70	0.03
US Route 1-DS08	20755	100-Year	200.97	222.60	226.50	223.11	226.50	0.000024	0.39	630.88	306.87	0.04
US Route 1-DS08	20755	500-Year	311.97	222.60	226.75	223.27	226.76	0.000043	0.55	710.69	311.39	0.05
US Route 1-DS08	20700	2-Year	29.80	217.81	225.77	219.28	225.77	0.000012	0.41	105.86	60.69	0.03
US Route 1-DS08	20700	10-Year	67.53	217.81	226.05	219.82	226.06	0.000050	0.85	125.84	118.47	0.06
US Route 1-DS08	20700	25-Year	116.25	217.81	226.22	220.34	226.24	0.000125	1.37	147.43	130.84	0.09
US Route 1-DS08	20700	50-Year	155.33	217.81	226.32	220.70	226.36	0.000201	1.75	160.99	138.05	0.11
US Route 1-DS08	20700	100-Year	200.97	217.81	226.42	221.08	226.48	0.000303	2.17	175.03	145.13	0.14
US Route 1-DS08	20700	500-Year	311.97	217.81	226.61	221.91	226.72	0.000599	3.10	203.37	158.46	0.19
US Route 1-DS08	20662.5 Tupelo Rd		Culvert									
US Route 1-DS08	20625	2-Year	29.80	218.46	221.94	220.00	221.97	0.000536	1.46	22.06	10.75	0.15
US Route 1-DS08	20625	10-Year	67.53	218.46	222.65	220.68	222.73	0.001120	2.44	30.34	12.53	0.23
US Route 1-DS08	20625	25-Year	116.25	218.46	223.31	221.31	223.45	0.001640	3.31	39.37	14.98	0.28
US Route 1-DS08	20625	50-Year	155.33	218.46	223.75	221.75	223.94	0.001893	3.80	46.38	16.77	0.31
US Route 1-DS08	20625	100-Year	200.97	218.46	224.19	222.16	224.43	0.002297	4.44	54.73	22.69	0.34
US Route 1-DS08	20625	500-Year	311.97	218.46	224.97	223.01	225.34	0.003268	5.82	78.82	54.93	0.42
US Route 1-DS08	20610	2-Year	29.80	220.40	221.78	221.33	221.91	0.006728	2.93	10.81	11.29	0.48
US Route 1-DS08	20610	10-Year	67.53	220.40	222.33	221.86	222.61	0.008967	4.39	17.81	14.03	0.59
US Route 1-DS08	20610	25-Year	116.25	220.40	222.78	222.40	223.27	0.011579	5.83	24.82	17.14	0.70
US Route 1-DS08	20610	50-Year	155.33	220.40	223.05	222.76	223.71	0.013483	6.80	29.70	19.20	0.77
US Route 1-DS08	20610	100-Year	200.97	220.40	223.31	223.19	224.15	0.015392	7.76	34.92	21.36	0.83
US Route 1-DS08	20610	500-Year	311.97	220.40	224.00	224.00	225.01	0.014624	8.82	52.02	28.10	0.84
US Route 1-DS08	20435	2-Year	29.80	218.80	219.55	219.55	219.75	0.040785	3.58	8.32	21.08	1.00
US Route 1-DS08	20435	10-Year	67.53	218.80	219.84	219.84	220.16	0.033230	4.54	15.53	28.74	0.99
US Route 1-DS08	20435	25-Year	116.25	218.80	220.13	220.13	220.55	0.027808	5.29	24.86	35.76	0.96
US Route 1-DS08	20435	50-Year	155.33	218.80	220.33	220.33	220.81	0.025268	5.72	32.38	40.40	0.94
US Route 1-DS08	20435	100-Year	200.97	218.80	220.53	220.53	221.08	0.023753	6.18	41.35	50.99	0.94
US Route 1-DS08	20435	500-Year	311.97	218.80	220.97	220.97	221.58	0.019104	6.71	67.75	65.73	0.88
US Route 1-DS08	20340	2-Year	29.80	217.20	218.92	217.96	218.94	0.000718	1.12	40.67	55.16	0.16
US Route 1-DS08	20340	10-Year	67.53	217.20	219.66	218.34	219.68	0.000630	1.38	89.43	74.73	0.17
US Route 1-DS08	20340	25-Year	116.25	217.20	220.12	218.72	220.15	0.000825	1.79	126.90	88.65	0.20
US Route 1-DS08	20340	50-Year	155.33	217.20	220.26	218.91	220.31	0.001142	2.19	139.86	90.34	0.23
US Route 1-DS08	20340	100-Year	200.97	217.20	220.47	219.12	220.53	0.001356	2.50	159.01	92.78	0.26
US Route 1-DS08	20340	500-Year	311.97	217.20	220.88	219.51	220.97	0.001781	3.13	198.10	97.57	0.30
US Route 1-DS08	20320	2-Year	29.80	215.50	218.91	216.96	218.92	0.000845	1.37	51.76	60.37	0.13
US Route 1-DS08	20320	10-Year	67.53	215.50	219.65	218.13	219.66	0.000819	1.54	102.09	73.01	0.13
US Route 1-DS08	20320	25-Year	116.25	215.50	220.11	218.61	220.12	0.001061	1.88	136.76	79.19	0.15
US Route 1-DS08	20320	50-Year	155.33	215.50	220.25	218.80	220.27	0.001511	2.28	148.01	81.03	0.18
US Route 1-DS08	20320	100-Year	200.97	215.50	220.45	219.13	220.49	0.001844	2.59	165.02	83.73	0.21
US Route 1-DS08	20320	500-Year	311.97	215.50	220.86	219.43	220.91	0.002515	3.19	200.03	89.04	0.24
US Route 1-DS08	20306.54 Footbridge		Bridge									
US Route 1-DS08	20295	2-Year	29.80	215.50	218.80	216.95	218.85	0.002854	2.18	25.03	29.67	0.21
US Route 1-DS08	20295	10-Year	67.53	215.50	219.55	218.40	219.61	0.002848	2.50	53.57	44.36	0.22
US Route 1-DS08	20295	25-Year	116.25	215.50	219.99	219.12	220.05	0.003560	2.99	74.92	54.49	0.25
US Route 1-DS08	20295	50-Year	155.33	215.50	220.07	219.35	220.17	0.005467	3.75	79.27	56.58	0.31

Deadman Brook Existing Conditions

HEC-RAS Plan: Existing (Continued)

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
US Route 1-DS08	20295	100-Year	200.97	215.50	220.23	219.55	220.36	0.006659	4.24	89.11	61.11	0.34
US Route 1-DS08	20295	500-Year	311.97	215.50	220.57	219.91	220.74	0.008675	5.06	110.95	70.12	0.40
US Route 1-DS08	20275	2-Year	29.80	217.60	218.58		218.71	0.013115	2.89	10.52	17.96	0.62
US Route 1-DS08	20275	10-Year	67.53	217.60	219.46		219.53	0.002769	2.32	38.54	47.80	0.33
US Route 1-DS08	20275	25-Year	116.25	217.60	219.90		219.98	0.002416	2.56	63.34	64.80	0.32
US Route 1-DS08	20275	50-Year	155.33	217.60	219.90		220.04	0.004356	3.43	63.10	64.66	0.43
US Route 1-DS08	20275	100-Year	200.97	217.60	220.01		220.20	0.005463	3.99	70.61	68.72	0.48
US Route 1-DS08	20275	500-Year	311.97	217.60	220.22		220.52	0.007614	5.02	85.45	71.24	0.58
US Route 1-DS08	20120	2-Year	29.80	216.40	217.64		217.70	0.003869	1.98	16.87	26.48	0.36
US Route 1-DS08	20120	10-Year	67.53	216.40	219.47		219.47	0.000085	0.60	190.51	157.89	0.06
US Route 1-DS08	20120	25-Year	116.25	216.40	219.91		219.92	0.000093	0.69	265.49	180.88	0.07
US Route 1-DS08	20120	50-Year	155.33	216.40	219.92		219.93	0.000163	0.92	266.78	181.25	0.09
US Route 1-DS08	20120	100-Year	200.97	216.40	220.04		220.05	0.000213	1.07	289.00	186.95	0.10
US Route 1-DS08	20120	500-Year	311.97	216.40	220.28		220.30	0.000325	1.39	334.65	196.11	0.13
US Route 1-DS08	20035	2-Year	29.80	216.00	217.46	216.75	217.49	0.001425	1.35	32.29	65.95	0.22
US Route 1-DS08	20035	10-Year	67.53	216.00	219.46	217.11	219.47	0.000082	0.64	209.38	99.04	0.06
US Route 1-DS08	20035	25-Year	116.25	216.00	219.90	217.50	219.91	0.000140	0.91	253.24	101.53	0.08
US Route 1-DS08	20035	50-Year	155.33	216.00	219.90	217.69	219.91	0.000251	1.22	252.86	101.51	0.11
US Route 1-DS08	20035	100-Year	200.97	216.00	220.01	217.85	220.03	0.000369	1.50	263.99	102.35	0.14
US Route 1-DS08	20035	500-Year	311.97	216.00	220.21	218.15	220.25	0.000709	2.16	286.06	111.06	0.19
US Route 1-DS08	19980	2-Year	29.80	213.83	217.47	214.71	217.47	0.000082	0.57	56.05	47.49	0.06
US Route 1-DS08	19980	10-Year	67.53	213.83	219.46	215.19	219.46	0.000067	0.74	108.10	143.69	0.06
US Route 1-DS08	19980	25-Year	116.25	213.83	219.88	215.62	219.90	0.000148	1.16	120.41	164.69	0.09
US Route 1-DS08	19980	50-Year	155.33	213.83	219.86	215.91	219.90	0.000267	1.55	119.83	164.51	0.12
US Route 1-DS08	19980	100-Year	200.97	213.83	220.00	216.18	220.01	0.000204	1.30	329.62	165.76	0.10
US Route 1-DS08	19980	500-Year	311.97	213.83	220.19	216.74	220.23	0.000393	1.85	363.12	171.38	0.14
US Route 1-DS08	19945 Cardinal Ln		Culvert									
US Route 1-DS08	19910	2-Year	29.80	214.52	217.22	215.67	217.25	0.000781	1.48	21.51	14.53	0.17
US Route 1-DS08	19910	10-Year	67.53	214.52	218.18	216.30	218.23	0.000844	1.93	38.69	49.87	0.19
US Route 1-DS08	19910	25-Year	116.25	214.52	218.36	216.90	218.48	0.001925	3.02	42.75	56.42	0.29
US Route 1-DS08	19910	50-Year	155.33	214.52	218.47	217.31	218.66	0.002974	3.84	45.30	60.48	0.36
US Route 1-DS08	19910	100-Year	200.97	214.52	218.60	217.67	218.88	0.004177	4.66	48.56	65.43	0.43
US Route 1-DS08	19910	500-Year	311.97	214.52	218.76	218.32	219.34	0.008089	6.67	52.92	71.68	0.60
US Route 1-DS08	19890	2-Year	29.80	216.00	216.85	216.85	217.11	0.035555	4.05	7.37	14.62	0.98
US Route 1-DS08	19890	10-Year	67.53	216.00	218.14	217.25	218.19	0.001467	1.88	42.87	74.58	0.24
US Route 1-DS08	19890	25-Year	116.25	216.00	218.30	217.60	218.39	0.002916	2.79	56.92	143.67	0.35
US Route 1-DS08	19890	50-Year	155.33	216.00	218.41	217.87	218.51	0.003257	3.06	70.23	151.80	0.37
US Route 1-DS08	19890	100-Year	200.97	216.00	218.58	218.34	218.67	0.002825	3.00	91.03	163.93	0.35
US Route 1-DS08	19890	500-Year	311.97	216.00	218.86	218.51	218.96	0.002618	3.13	134.95	222.44	0.35
US Route 1-DS08	19795 FEMA "T"	2-Year	29.80	214.20	215.74		215.77	0.001800	1.61	19.93	21.96	0.25
US Route 1-DS08	19795 FEMA "T"	10-Year	67.53	214.20	218.16		218.16	0.000053	0.57	133.98	62.49	0.05
US Route 1-DS08	19795 FEMA "T"	25-Year	116.25	214.20	218.31		218.33	0.000128	0.91	144.01	63.96	0.08
US Route 1-DS08	19795 FEMA "T"	50-Year	155.33	214.20	218.41		218.43	0.000203	1.16	150.29	64.86	0.10
US Route 1-DS08	19795 FEMA "T"	100-Year	200.97	214.20	218.56		218.58	0.000284	1.41	159.73	66.20	0.12
US Route 1-DS08	19795 FEMA "T"	500-Year	311.97	214.20	218.78		218.84	0.000528	1.99	174.89	68.28	0.17
US Route 1-DS08	19745	2-Year	29.80	213.16	215.52	214.37	215.61	0.003696	2.42	12.30	6.73	0.32
US Route 1-DS08	19745	10-Year	67.53	213.16	218.13	215.11	218.15	0.000269	1.11	58.80	187.43	0.10
US Route 1-DS08	19745	25-Year	116.25	213.16	218.29	215.82	218.31	0.000383	1.36	124.88	194.60	0.11
US Route 1-DS08	19745	50-Year	155.33	213.16	218.38	216.78	218.41	0.000534	1.63	139.91	198.63	0.14
US Route 1-DS08	19745	100-Year	200.97	213.16	218.52	217.00	218.56	0.000618	1.79	164.45	205.05	0.15
US Route 1-DS08	19745	500-Year	311.97	213.16	218.74	217.42	218.80	0.000888	2.22	203.42	214.90	0.18
US Route 1-DS08	19727 Driveway Bridge		Culvert									
US Route 1-DS08	19710	2-Year	29.80	213.06	214.95	214.02	215.00	0.002163	1.80	16.52	12.96	0.27
US Route 1-DS08	19710	10-Year	67.53	213.06	215.60	214.54	215.71	0.003432	2.59	26.03	15.64	0.35
US Route 1-DS08	19710	25-Year	116.25	213.06	216.14	215.01	216.31	0.004521	3.31	35.07	17.84	0.42
US Route 1-DS08	19710	50-Year	155.33	213.06	216.47	215.35	216.69	0.005195	3.78	41.12	20.43	0.45
US Route 1-DS08	19710	100-Year	200.97	213.06	216.80	215.68	217.07	0.005504	4.20	48.91	26.51	0.47
US Route 1-DS08	19710	500-Year	311.97	213.06	217.23	216.32	217.63	0.006869	5.22	65.04	44.09	0.54
US Route 1-DS08	19690	2-Year	29.80	213.60	214.49	214.49	214.80	0.033533	4.53	6.59	10.41	0.98
US Route 1-DS08	19690	10-Year	67.53	213.60	214.98	214.98	215.45	0.024077	5.58	12.54	13.49	0.91
US Route 1-DS08	19690	25-Year	116.25	213.60	215.44	215.44	216.02	0.019887	6.33	19.48	16.76	0.88
US Route 1-DS08	19690	50-Year	155.33	213.60	215.73	215.73	216.38	0.018436	6.79	24.53	18.86	0.87
US Route 1-DS08	19690	100-Year	200.97	213.60	215.98	215.98	216.74	0.018460	7.38	29.58	21.28	0.89
US Route 1-DS08	19690	500-Year	311.97	213.60	216.65	216.65	217.35	0.013066	7.44	49.26	35.98	0.78
US Route 1-DS08	19515	2-Year	29.80	212.00	214.07		214.08	0.000084	0.46	76.50	80.05	0.06
US Route 1-DS08	19515	10-Year	67.53	212.00	215.09		215.10	0.000036	0.40	170.79	106.19	0.04
US Route 1-DS08	19515	25-Year	116.25	212.00	215.19		215.19	0.000089	0.65	180.98	109.53	0.07
US Route 1-DS08	19515	50-Year	155.33	212.00	215.34		215.36	0.000119	0.77	198.75	115.06	0.08
US Route 1-DS08	19515	100-Year	200.97	212.00	215.52		215.54	0.000146	0.89	219.92	121.31	0.09
US Route 1-DS08	19515	500-Year	311.97	212.00	215.83		215.86	0.000219	1.15	258.59	132.78	0.11

Deadman Brook Existing Conditions

HEC-RAS Plan: Existing (Continued)

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
US Route 1-DS08	19475	2-Year	29.80	212.80	214.03	213.39	214.06	0.001934	1.46	21.42	67.29	0.26
US Route 1-DS08	19475	10-Year	67.53	212.80	215.07	213.73	215.09	0.000536	1.23	111.98	165.92	0.15
US Route 1-DS08	19475	25-Year	116.25	212.80	215.13	214.04	215.18	0.001333	1.98	121.94	169.68	0.24
US Route 1-DS08	19475	50-Year	155.33	212.80	215.28	214.27	215.33	0.001597	2.27	146.14	178.73	0.27
US Route 1-DS08	19475	100-Year	200.97	212.80	215.46	214.66	215.52	0.001735	2.48	175.09	189.43	0.28
US Route 1-DS08	19475	500-Year	311.97	212.80	215.75	215.08	215.83	0.002219	3.03	223.98	207.17	0.32
US Route 1-DS08	19462.38 Footbridge	Bridge										
US Route 1-DS08	19450	2-Year	29.80	212.80	213.41	213.41	213.63	0.038583	3.81	7.82	49.14	1.00
US Route 1-DS08	19450	10-Year	67.53	212.80	215.00	213.74	215.03	0.000912	1.60	83.38	162.39	0.20
US Route 1-DS08	19450	25-Year	116.25	212.80	214.25	214.09	214.64	0.016681	5.05	24.89	96.49	0.78
US Route 1-DS08	19450	50-Year	155.33	212.80	214.35	214.32	214.94	0.023202	6.25	27.02	104.92	0.93
US Route 1-DS08	19450	100-Year	200.97	212.80	214.60	214.60	215.21	0.020137	6.49	41.24	123.37	0.89
US Route 1-DS08	19450	500-Year	311.97	212.80	215.23	215.23	215.61	0.010209	5.75	121.54	217.66	0.67
US Route 1-DS08	19370 FEMA "S"	2-Year	29.80	210.15	211.44		211.62	0.015099	3.35	8.98	12.09	0.67
US Route 1-DS08	19370 FEMA "S"	10-Year	67.53	210.15	215.01		215.02	0.000030	0.42	436.54	289.30	0.04
US Route 1-DS08	19370 FEMA "S"	25-Year	116.25	210.15	212.15	212.15	212.79	0.028184	6.47	18.56	76.75	1.00
US Route 1-DS08	19370 FEMA "S"	50-Year	155.33	210.15	212.71	212.71	213.25	0.016703	5.93	30.05	142.02	0.80
US Route 1-DS08	19370 FEMA "S"	100-Year	200.97	210.15	213.03	213.03	213.49	0.013327	5.73	57.43	163.17	0.73
US Route 1-DS08	19370 FEMA "S"	500-Year	311.97	210.15	213.40	213.40	213.89	0.014149	6.37	92.53	202.93	0.77
US Route 1-DS08	19100	2-Year	29.80	210.00	211.53	210.26	211.53	0.000037	0.25	119.29	192.49	0.04
US Route 1-DS08	19100	10-Year	67.53	210.00	215.02	210.38	215.02	0.000001	0.07	1080.52	288.01	0.01
US Route 1-DS08	19100	25-Year	116.25	210.00	212.25	210.50	212.25	0.000029	0.29	407.25	211.39	0.04
US Route 1-DS08	19100	50-Year	155.33	210.00	212.25	210.59	212.25	0.000052	0.39	407.26	211.39	0.05
US Route 1-DS08	19100	100-Year	200.97	210.00	212.25	210.68	212.25	0.000087	0.51	407.29	211.39	0.06
US Route 1-DS08	19100	500-Year	311.97	210.00	212.35	210.88	212.36	0.000179	0.75	428.81	213.15	0.09
US Route 1-DS08	19055	2-Year	29.80	209.60	211.52	209.98	211.52	0.000038	0.30	100.59	230.40	0.04
US Route 1-DS08	19055	10-Year	67.53	209.60	215.02	210.13	215.02	0.000000	0.06	1291.02	322.84	0.00
US Route 1-DS08	19055	25-Year	116.25	209.60	212.25	210.28	212.25	0.000016	0.23	523.19	238.30	0.03
US Route 1-DS08	19055	50-Year	155.33	209.60	212.25	210.39	212.25	0.000028	0.31	523.03	238.29	0.04
US Route 1-DS08	19055	100-Year	200.97	209.60	212.24	210.50	212.25	0.000047	0.40	522.81	238.27	0.05
US Route 1-DS08	19055	500-Year	311.97	209.60	212.34	210.75	212.35	0.000099	0.59	546.41	240.27	0.07
US Route 1-DS08	19027.5 Driveway Bridge	Culvert										
US Route 1-DS08	18990	2-Year	29.80	209.50	210.53	210.13	210.57	0.003513	1.62	18.72	189.26	0.33
US Route 1-DS08	18990	10-Year	67.53	209.50	215.01	210.40	215.01	0.000001	0.11	1337.35	371.17	0.01
US Route 1-DS08	18990	25-Year	116.25	209.50	210.85	210.68	211.15	0.016360	4.42	26.94	204.99	0.75
US Route 1-DS08	18990	50-Year	155.33	209.50	210.98	210.86	211.41	0.019940	5.27	30.27	208.41	0.85
US Route 1-DS08	18990	100-Year	200.97	209.50	211.10	211.06	211.69	0.024418	6.20	33.30	210.40	0.95
US Route 1-DS08	18990	500-Year	311.97	209.50	211.48	211.48	212.33	0.024987	7.44	43.20	216.24	1.00
US Route 1-DS08	18940	2-Year	29.80	209.40	210.50	209.93	210.51	0.000409	0.54	55.18	235.30	0.11
US Route 1-DS08	18940	10-Year	67.53	209.40	215.01	210.07	215.01	0.000000	0.06	1390.40	356.65	0.00
US Route 1-DS08	18940	25-Year	116.25	209.40	210.62	210.20	210.67	0.003857	1.82	63.72	237.57	0.35
US Route 1-DS08	18940	50-Year	155.33	209.40	210.80	210.28	210.87	0.003533	2.00	77.84	240.45	0.35
US Route 1-DS08	18940	100-Year	200.97	209.40	210.98	210.38	211.05	0.003498	2.21	91.12	242.72	0.35
US Route 1-DS08	18940	500-Year	311.97	209.40	211.32	210.59	211.43	0.003678	2.67	116.87	247.51	0.38
US Route 1-DS08	18800	2-Year	29.80	209.00	210.49	209.28	210.49	0.000061	0.31	142.99	168.42	0.05
US Route 1-DS08	18800	10-Year	67.53	209.00	215.01	209.46	215.01	0.000001	0.08	1232.26	355.83	0.01
US Route 1-DS08	18800	25-Year	116.25	209.00	210.34	209.63	210.36	0.001379	1.38	119.46	155.59	0.22
US Route 1-DS08	18800	50-Year	155.33	209.00	210.51	209.76	210.54	0.001557	1.61	146.13	169.09	0.24
US Route 1-DS08	18800	100-Year	200.97	209.00	210.69	209.87	210.73	0.001527	1.73	178.30	175.16	0.24
US Route 1-DS08	18800	500-Year	311.97	209.00	211.03	210.06	211.08	0.001605	2.03	239.56	184.84	0.26
US Route 1-DS08	18760	2-Year	29.80	208.30	210.49	208.85	210.49	0.000059	0.39	163.11	153.68	0.05
US Route 1-DS08	18760	10-Year	67.53	208.30	215.01	209.20	215.01	0.000001	0.09	1262.21	379.16	0.01
US Route 1-DS08	18760	25-Year	116.25	208.30	210.27	209.55	210.30	0.001576	1.88	130.58	143.20	0.25
US Route 1-DS08	18760	50-Year	155.33	208.30	210.43	209.77	210.47	0.001827	2.14	154.58	150.60	0.27
US Route 1-DS08	18760	100-Year	200.97	208.30	210.61	209.91	210.66	0.001985	2.37	182.75	160.41	0.28
US Route 1-DS08	18760	500-Year	311.97	208.30	210.94	210.12	211.00	0.002240	2.77	237.86	173.84	0.31
US Route 1-DS08	18748.32 Footbridge	Bridge										
US Route 1-DS08	18735	2-Year	29.80	208.30	210.48	208.88	210.48	0.000099	0.50	142.52	145.79	0.06
US Route 1-DS08	18735	10-Year	67.53	208.30	215.01	209.31	215.01	0.000001	0.08	1321.71	413.82	0.01
US Route 1-DS08	18735	25-Year	116.25	208.30	210.11	209.73	210.19	0.004475	2.95	91.76	127.58	0.39
US Route 1-DS08	18735	50-Year	155.33	208.30	210.25	209.94	210.34	0.005039	3.29	110.28	131.25	0.42
US Route 1-DS08	18735	100-Year	200.97	208.30	210.41	210.04	210.52	0.005558	3.65	131.74	144.01	0.45
US Route 1-DS08	18735	500-Year	311.97	208.30	210.73	210.27	210.85	0.005798	4.11	179.26	152.30	0.47
US Route 1-DS08	18710 FEMA "R"	2-Year	29.80	207.46	209.38	209.38	210.22	0.109896	9.62	7.06	85.73	1.82
US Route 1-DS08	18710 FEMA "R"	10-Year	67.53	207.46	209.38	209.38	213.71	0.564341	21.81	7.06	85.73	4.13
US Route 1-DS08	18710 FEMA "R"	25-Year	116.25	207.46	209.80	209.80	209.98	0.008692	4.31	76.27	177.51	0.58
US Route 1-DS08	18710 FEMA "R"	50-Year	155.33	207.46	209.94	209.86	210.12	0.009091	4.64	98.12	194.39	0.60
US Route 1-DS08	18710 FEMA "R"	100-Year	200.97	207.46	210.15	210.07	210.30	0.007966	4.66	140.50	222.26	0.57
US Route 1-DS08	18710 FEMA "R"	500-Year	311.97	207.46	210.60	210.24	210.68	0.004523	4.01	242.17	229.31	0.44

HEC-RAS Plan: Existing (Continued)

HEC-RAS Plan: Existing (Continued)													
Reach		River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
US Route 1-DS08	18490		2-Year	29.80	207.00	208.83	207.70	208.84	0.000324	0.79	62.08	90.52	0.11
US Route 1-DS08	18490		10-Year	67.53	207.00	209.26	208.03	209.27	0.000418	1.05	118.10	135.65	0.13
US Route 1-DS08	18490		25-Year	116.25	207.00	209.53	208.38	209.55	0.000525	1.29	156.05	144.12	0.15
US Route 1-DS08	18490		50-Year	155.33	207.00	209.92	208.59	209.93	0.000564	1.41	182.88	151.09	0.16
US Route 1-DS08	18490		100-Year	200.97	207.00	209.91	208.75	209.93	0.000581	1.50	211.97	156.13	0.16
US Route 1-DS08	18490		500-Year	311.97	207.00	210.38	209.18	210.40	0.000503	1.56	288.37	168.90	0.16
US Route 1-DS08	18440	FEMA "Q"	2-Year	29.80	205.12	208.82	206.50	208.83	0.000186	0.93	54.21	30.13	0.09
US Route 1-DS08	18440	FEMA "Q"	10-Year	67.53	205.12	209.20	207.07	209.25	0.000695	1.94	68.47	54.68	0.18
US Route 1-DS08	18440	FEMA "Q"	25-Year	116.25	205.12	209.38	207.60	209.49	0.001700	3.13	79.87	73.80	0.29
US Route 1-DS08	18440	FEMA "Q"	50-Year	155.33	205.12	209.46	207.93	209.65	0.002682	4.00	86.61	72.89	0.36
US Route 1-DS08	18440	FEMA "Q"	100-Year	200.97	205.12	209.51	208.27	209.81	0.004177	5.03	90.64	89.61	0.46
US Route 1-DS08	18440	FEMA "Q"	500-Year	311.97	205.12	209.06	208.95	210.06	0.016220	9.12	62.14	39.03	0.88
US Route 1-DS08	18400	Highland Rd		Culvert									
US Route 1-DS08	18360		2-Year	29.80	203.76	206.06	204.98	206.08	0.001050	1.29	37.45	20.74	0.20
US Route 1-DS08	18360		10-Year	67.53	203.76	206.64	205.45	206.70	0.001578	2.01	23.36	25.99	0.25
US Route 1-DS08	18360		25-Year	116.25	203.76	207.20	205.84	207.30	0.001900	2.61	53.94	35.20	0.29
US Route 1-DS08	18360		50-Year	155.33	203.76	207.58	206.08	207.71	0.002027	2.96	69.29	46.24	0.31
US Route 1-DS08	18360		100-Year	200.97	203.76	207.73	206.34	207.92	0.002778	3.59	76.77	50.76	0.36
US Route 1-DS08	18360		500-Year	311.97	203.76	208.29	206.92	208.56	0.003471	4.49	111.14	77.84	0.42
US Route 1-DS08	18300		2-Year	30.32	205.00	205.59	205.59	205.83	0.037958	3.98	7.62	17.24	1.00
US Route 1-DS08	18300		10-Year	68.30	205.00	205.94	205.94	206.35	0.031193	5.08	13.47	20.57	0.99
US Route 1-DS08	18300		25-Year	118.21	205.00	206.30	206.30	206.88	0.027669	6.10	19.73	24.19	0.99
US Route 1-DS08	18300		50-Year	158.11	205.00	206.56	206.56	207.25	0.025603	6.69	24.44	27.13	0.98
US Route 1-DS08	18300		100-Year	203.83	205.00	206.72	206.72	207.41	0.023633	6.72	33.79	29.01	0.96
US Route 1-DS08	18300		500-Year	316.16	205.00	207.34	207.34	208.05	0.016412	7.03	62.53	63.59	0.84
US Route 1-DS08	18095		2-Year	37.63	201.20	202.66	202.17	202.79	0.005894	2.89	14.37	37.77	0.46
US Route 1-DS08	18095		10-Year	80.00	201.20	204.26	202.67	204.33	0.001250	2.31	55.04	108.38	0.24
US Route 1-DS08	18095		25-Year	147.20	201.20	204.84	203.29	204.96	0.001786	3.13	103.70	134.17	0.30
US Route 1-DS08	18095		50-Year	197.06	201.20	205.18	203.63	205.30	0.001814	3.36	137.18	141.64	0.30
US Route 1-DS08	18095		100-Year	246.53	201.20	205.56	203.98	205.66	0.001561	3.32	176.86	153.09	0.29
US Route 1-DS08	18095		500-Year	389.05	201.20	206.31	205.01	206.39	0.001185	3.23	273.79	201.98	0.26
US Route 1-DS08	18050	FEMA "P"	2-Year	37.63	199.64	202.68	200.49	202.69	0.000253	0.93	42.70	51.29	0.10
US Route 1-DS08	18050	FEMA "P"	10-Year	80.00	199.64	204.26	200.91	204.28	0.000204	1.12	99.28	154.85	0.10
US Route 1-DS08	18050	FEMA "P"	25-Year	147.20	199.64	204.86	201.43	204.89	0.000244	1.34	164.19	173.05	0.11
US Route 1-DS08	18050	FEMA "P"	50-Year	197.06	199.64	205.20	201.76	205.23	0.000253	1.43	210.75	215.62	0.11
US Route 1-DS08	18050	FEMA "P"	100-Year	246.53	199.64	205.57	202.06	205.60	0.000222	1.41	267.64	218.92	0.11
US Route 1-DS08	18050	FEMA "P"	500-Year	389.05	199.64	206.31	202.80	206.33	0.000214	1.50	382.72	231.66	0.11
US Route 1-DS08	17942.5	Bayberry Ln		Culvert									
US Route 1-DS08	17835	FEMA "O"	2-Year	37.63	197.32	200.91	198.75	200.93	0.000344	1.23	44.12	29.89	0.13
US Route 1-DS08	17835	FEMA "O"	10-Year	80.00	197.32	201.22	199.28	201.29	0.001028	2.28	53.64	31.31	0.24
US Route 1-DS08	17835	FEMA "O"	25-Year	147.20	197.32	201.56	199.92	201.73	0.003222	3.65	64.41	32.84	0.34
US Route 1-DS08	17835	FEMA "O"	50-Year	197.06	197.32	201.77	200.54	202.03	0.003286	4.51	71.45	51.21	0.41
US Route 1-DS08	17835	FEMA "O"	100-Year	246.53	197.32	202.39	200.89	202.67	0.002933	4.72	99.85	105.80	0.39
US Route 1-DS08	17835	FEMA "O"	500-Year	389.05	197.32	202.93	201.62	203.33	0.004016	5.96	137.54	113.45	0.47
US Route 1-DS08	17775		2-Year	37.63	199.40	200.80	200.80	200.87	0.004203	2.25	30.99	92.41	0.38
US Route 1-DS08	17775		10-Year	80.00	199.40	200.86	200.86	201.09	0.014016	4.27	36.89	94.27	0.70
US Route 1-DS08	17775		25-Year	147.20	199.40	201.12	201.12	201.40	0.016315	5.26	61.71	102.02	0.78
US Route 1-DS08	17775		50-Year	197.06	199.40	201.53	201.25	201.69	0.007652	4.28	106.75	114.00	0.56
US Route 1-DS08	17775		100-Year	246.53	199.40	202.36	201.37	202.42	0.001968	2.79	210.69	136.00	0.30
US Route 1-DS08	17775		500-Year	389.05	199.40	202.94	201.66	203.00	0.002010	3.21	292.78	150.67	0.32
US Route 1-DS07	17550	FEMA "N"	2-Year	43.17	197.38	199.38		199.41	0.001501	1.59	60.16	166.42	0.23
US Route 1-DS07	17550	FEMA "N"	10-Year	94.82	197.38	200.04		200.05	0.000642	1.34	220.53	291.76	0.16
US Route 1-DS07	17550	FEMA "N"	25-Year	154.72	197.38	200.93		200.93	0.000181	0.90	492.27	315.81	0.09
US Route 1-DS07	17550	FEMA "N"	50-Year	189.41	197.38	201.57		201.57	0.000098	0.75	716.09	361.23	0.07
US Route 1-DS07	17550	FEMA "N"	100-Year	230.72	197.38	202.36		202.36	0.000052	0.62	1010.33	379.47	0.05
US Route 1-DS07	17550	FEMA "N"	500-Year	357.65	197.38	202.93		202.94	0.000069	0.78	1231.35	396.73	0.06
US Route 1-DS07	17395		2-Year	43.17	197.60	198.84	198.49	198.95	0.007646	2.66	16.43	20.55	0.50
US Route 1-DS07	17395		10-Year	94.82	197.60	199.76	198.91	199.85	0.002824	2.59	43.86	39.00	0.34
US Route 1-DS07	17395		25-Year	154.72	197.60	200.81	199.31	200.87	0.001027	2.12	104.43	66.81	0.22
US Route 1-DS07	17395		50-Year	189.41	197.60	201.49	199.50	201.53	0.000612	1.89	155.47	86.85	0.18
US Route 1-DS07	17395		100-Year	230.72	197.60	202.33	199.70	202.35	0.000254	1.40	299.96	295.02	0.12
US Route 1-DS07	17395		500-Year	357.65	197.60	202.91	200.25	202.92	0.000156	1.19	474.77	312.52	0.09
US Route 1-DS07	17350		2-Year	43.17	196.61	198.79	197.62	198.81	0.000777	1.16	39.46	35.92	0.17
US Route 1-DS07	17350		10-Year	94.82	196.61	199.73	198.05	199.76	0.000658	1.48	79.07	53.75	0.17
US Route 1-DS07	17350		25-Year	154.72	196.61	200.79	198.37	200.83	0.000444	1.55	130.81	64.42	0.15
US Route 1-DS07	17350		50-Year	189.41	196.61	201.47	198.54	201.50	0.000364	1.54	163.76	82.95	0.13
US Route 1-DS07	17350		100-Year	230.72	196.61	202.32	198.72	202.34	0.000165	1.20	284.40	235.40	0.09
US Route 1-DS07	17350		500-Year	357.65	196.61	202.90	199.21	202.91	0.000121	1.10	479.43	311.62	0.08
US Route 1-DS07	17302.53	Vinevard Ln		Culvert									

Deadman Brook Existing Conditions

HEC-RAS Plan: Existing (Continued)

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
US Route 1-DS07	17230 FEMA "M"	2-Year	43.17	195.99	198.71	197.33	198.74	0.000818	1.46	46.35	51.44	0.18
US Route 1-DS07	17230 FEMA "M"	10-Year	94.82	195.99	199.37	197.90	199.42	0.001099	2.04	82.05	65.08	0.22
US Route 1-DS07	17230 FEMA "M"	25-Year	154.72	195.99	199.84	198.50	199.91	0.001423	2.59	118.07	74.88	0.26
US Route 1-DS07	17230 FEMA "M"	50-Year	189.41	195.99	200.03	198.72	200.12	0.001631	2.88	132.75	78.69	0.28
US Route 1-DS07	17230 FEMA "M"	100-Year	230.72	195.99	200.28	198.90	200.38	0.001727	3.11	152.60	81.37	0.29
US Route 1-DS07	17230 FEMA "M"	500-Year	357.65	195.99	200.65	199.33	200.81	0.002627	4.10	183.43	85.30	0.36
US Route 1-DS07	17000	2-Year	43.17	196.80	198.02		198.21	0.015053	3.54	12.41	17.98	0.69
US Route 1-DS07	17000	10-Year	94.82	196.80	198.75		198.91	0.006294	3.49	45.93	72.51	0.49
US Route 1-DS07	17000	25-Year	154.72	196.80	199.16		199.33	0.005666	3.88	88.16	151.26	0.49
US Route 1-DS07	17000	50-Year	189.41	196.80	199.28		199.47	0.006093	4.18	104.73	172.43	0.51
US Route 1-DS07	17000	100-Year	230.72	196.80	199.43	199.14	199.66	0.007075	4.71	126.85	203.95	0.56
US Route 1-DS07	17000	500-Year	357.65	196.80	199.89		200.05	0.004856	4.43	224.96	217.37	0.47
US Route 1-DS06	16785 FEMA "L"	2-Year	53.24	194.63	197.82		197.84	0.000664	1.35	89.69	118.06	0.16
US Route 1-DS06	16785 FEMA "L"	10-Year	138.40	194.63	198.48		198.51	0.000999	1.96	179.63	149.51	0.20
US Route 1-DS06	16785 FEMA "L"	25-Year	191.47	194.63	198.94		198.96	0.000843	1.98	251.86	167.67	0.19
US Route 1-DS06	16785 FEMA "L"	50-Year	227.73	194.63	198.97		199.01	0.001123	2.30	258.05	169.14	0.22
US Route 1-DS06	16785 FEMA "L"	100-Year	261.89	194.63	199.07		199.11	0.001291	2.51	274.85	176.31	0.24
US Route 1-DS06	16785 FEMA "L"	500-Year	396.06	194.63	199.37		199.44	0.001965	3.27	331.48	202.16	0.29
US Route 1-DS06	16605	2-Year	53.24	196.80	197.65		197.66	0.001463	0.88	60.65	106.23	0.20
US Route 1-DS06	16605	10-Year	138.40	196.80	198.34		198.36	0.000679	1.01	151.44	232.48	0.16
US Route 1-DS06	16605	25-Year	191.47	196.80	198.86		198.87	0.000307	0.85	281.29	280.40	0.11
US Route 1-DS06	16605	50-Year	227.73	196.80	198.87		198.89	0.000423	1.00	283.97	280.99	0.13
US Route 1-DS06	16605	100-Year	261.89	196.80	198.96		198.98	0.000443	1.06	309.79	286.55	0.14
US Route 1-DS06	16605	500-Year	396.06	196.80	199.24		199.26	0.000532	1.27	390.16	298.79	0.15
US Route 1-DS06	16395 FEMA "K"	2-Year	53.24	195.80	196.52	196.52	196.77	0.037202	4.00	13.52	30.66	1.00
US Route 1-DS06	16395 FEMA "K"	10-Year	138.40	195.80	198.27	197.05	198.28	0.000252	0.90	257.74	345.27	0.11
US Route 1-DS06	16395 FEMA "K"	25-Year	191.47	195.80	198.84	197.16	198.85	0.000055	0.49	574.16	374.52	0.05
US Route 1-DS06	16395 FEMA "K"	50-Year	227.73	195.80	198.85	197.25	198.85	0.000077	0.58	575.05	374.62	0.06
US Route 1-DS06	16395 FEMA "K"	100-Year	261.89	195.80	198.94	197.30	198.94	0.000085	0.62	608.47	378.35	0.06
US Route 1-DS06	16395 FEMA "K"	500-Year	396.06	195.80	199.20	197.48	199.21	0.000117	0.77	715.99	421.56	0.08
US Route 1-DS06	16345	2-Year	53.24	191.60	196.58	193.02	196.59	0.000079	0.61	93.56	36.42	0.06
US Route 1-DS06	16345	10-Year	138.40	191.60	198.25	193.75	198.27	0.000106	0.94	204.71	207.85	0.08
US Route 1-DS06	16345	25-Year	191.47	191.60	198.82	194.10	198.84	0.000122	1.09	267.51	232.34	0.08
US Route 1-DS06	16345	50-Year	227.73	191.60	198.82	194.29	198.84	0.000174	1.30	266.87	231.66	0.10
US Route 1-DS06	16345	100-Year	261.89	191.60	198.91	194.48	198.93	0.000165	1.28	436.91	241.67	0.10
US Route 1-DS06	16345	500-Year	396.06	191.60	199.16	195.08	199.19	0.000291	1.76	498.84	402.73	0.13
US Route 1-DS06	16305 Vineyard Ln		Culvert									
US Route 1-DS06	16265	2-Year	53.24	191.71	196.44	193.53	196.47	0.000242	1.23	45.10	14.96	0.11
US Route 1-DS06	16265	10-Year	138.40	191.71	197.48	194.41	197.56	0.000669	2.38	62.68	96.96	0.19
US Route 1-DS06	16265	25-Year	191.47	191.71	198.00	194.85	198.11	0.000882	2.92	73.74	228.00	0.22
US Route 1-DS06	16265	50-Year	227.73	191.71	198.19	195.11	198.31	0.000967	3.13	113.26	312.95	0.23
US Route 1-DS06	16265	100-Year	261.89	191.71	198.32	195.36	198.43	0.000930	3.12	141.24	391.42	0.23
US Route 1-DS06	16265	500-Year	396.06	191.71	198.70	196.17	198.77	0.000803	3.02	229.08	460.06	0.21
US Route 1-DS06	16245	2-Year	53.24	192.80	196.44	193.79	196.46	0.000265	1.00	53.03	152.50	0.10
US Route 1-DS06	16245	10-Year	138.40	192.80	197.51	194.49	197.52	0.000154	0.91	307.88	304.88	0.08
US Route 1-DS06	16245	25-Year	191.47	192.80	198.05	194.83	198.05	0.000071	0.65	550.78	414.89	0.05
US Route 1-DS06	16245	50-Year	227.73	192.80	198.25	195.05	198.25	0.000066	0.65	634.49	438.73	0.05
US Route 1-DS06	16245	100-Year	261.89	192.80	198.37	195.25	198.37	0.000067	0.67	688.94	448.51	0.05
US Route 1-DS06	16245	500-Year	396.06	192.80	198.73	195.88	198.73	0.000076	0.74	856.46	478.00	0.06
US Route 1-DS06	16230 Driveway		Culvert									
US Route 1-DS06	16215	2-Year	53.24	192.30	196.34	193.31	196.37	0.000331	1.22	43.49	109.24	0.11
US Route 1-DS06	16215	10-Year	138.40	192.30	197.49	194.17	197.50	0.000202	1.07	233.95	313.17	0.09
US Route 1-DS06	16215	25-Year	191.47	192.30	198.05	194.60	198.05	0.000084	0.74	424.51	375.93	0.06
US Route 1-DS06	16215	50-Year	227.73	192.30	198.24	194.87	198.24	0.000076	0.72	499.61	397.50	0.05
US Route 1-DS06	16215	100-Year	261.89	192.30	198.36	195.09	198.37	0.000075	0.73	549.59	408.05	0.05
US Route 1-DS06	16215	500-Year	396.06	192.30	198.73	196.99	198.73	0.000080	0.79	703.32	437.78	0.06
US Route 1-DS06	16170 FEMA "J"	2-Year	53.24	195.40	196.16	196.15	196.29	0.038861	2.87	18.56	137.21	0.93
US Route 1-DS06	16170 FEMA "J"	10-Year	138.40	195.40	197.49	196.40	197.49	0.000179	0.60	248.81	259.03	0.08
US Route 1-DS06	16170 FEMA "J"	25-Year	191.47	195.40	198.04	196.53	198.05	0.000081	0.49	402.45	296.25	0.06
US Route 1-DS06	16170 FEMA "J"	50-Year	227.73	195.40	198.24	196.62	198.24	0.000077	0.51	462.75	325.69	0.06
US Route 1-DS06	16170 FEMA "J"	100-Year	261.89	195.40	198.36	196.70	198.36	0.000080	0.53	504.25	346.48	0.06
US Route 1-DS06	16170 FEMA "J"	500-Year	396.06	195.40	198.72	196.70	198.73	0.000092	0.63	640.76	403.12	0.07
US Route 1-DS06	15975	2-Year	53.24	194.40	196.20		196.20	0.000059	0.32	229.48	282.46	0.05
US Route 1-DS06	15975	10-Year	138.40	194.40	197.48		197.48	0.000030	0.35	665.41	403.75	0.04
US Route 1-DS06	15975	25-Year	191.47	194.40	198.04		198.04	0.000025	0.36	904.59	448.73	0.04
US Route 1-DS06	15975	50-Year	227.73	194.40	198.23		198.23	0.000027	0.39	991.99	453.56	0.04
US Route 1-DS06	15975	100-Year	261.89	194.40	198.35		198.35	0.000031	0.43	1047.97	456.63	0.04
US Route 1-DS06	15975	500-Year	396.06	194.40	198.71		198.72	0.000045	0.55	1213.75	465.62	0.05
US Route 1-DS06	15780	2-Year	53.24	193.80	196.12	195.02	196.17	0.001267	1.83	65.52	146.08	0.23

Deadman Brook Existing Conditions

HEC-RAS Plan: Existing (Continued)

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl	
US Route 1-DS06	15780	10-Year	138.40	193.80	197.45	195.76	197.46	0.000319	1.30	303.15	207.07	0.13	
US Route 1-DS06	15780	25-Year	191.47	193.80	198.02	196.29	198.03	0.000237	1.24	424.41	249.00	0.11	
US Route 1-DS06	15780	50-Year	227.73	193.80	198.21	196.38	198.22	0.000257	1.34	468.39	273.18	0.12	
US Route 1-DS06	15780	100-Year	261.89	193.80	198.33	196.46	198.34	0.000289	1.44	497.16	288.34	0.12	
US Route 1-DS06	15780	500-Year	396.06	193.80	198.68	196.70	198.69	0.000420	1.84	585.62	332.20	0.15	
US Route 1-DS06	15720	2-Year	53.24	192.24	196.09	193.77	196.12	0.000457	1.35	49.47	68.89	0.14	
US Route 1-DS06	15720	10-Year	138.40	192.24	197.41	194.61	197.44	0.000432	1.68	208.13	162.58	0.14	
US Route 1-DS06	15720	25-Year	191.47	192.24	197.98	195.03	198.00	0.000356	1.66	303.30	169.17	0.13	
US Route 1-DS06	15720	50-Year	227.73	192.24	198.17	195.30	198.20	0.000367	1.73	366.62	354.57	0.14	
US Route 1-DS06	15720	100-Year	261.89	192.24	198.29	195.70	198.32	0.000386	1.81	409.71	364.10	0.14	
US Route 1-DS06	15720	500-Year	396.06	192.24	198.64	196.62	198.67	0.000447	2.03	541.06	391.90	0.15	
US Route 1-DS06	15680	Half Mile Com	Culvert										
US Route 1-DS06	15640	2-Year	53.24	193.03	196.01	194.04	196.03	0.000470	1.28	45.21	24.22	0.14	
US Route 1-DS06	15640	10-Year	138.40	193.03	197.35	194.75	197.40	0.000612	1.93	122.79	125.38	0.17	
US Route 1-DS06	15640	25-Year	191.47	193.03	197.95	195.08	197.99	0.000479	1.88	207.19	154.66	0.16	
US Route 1-DS06	15640	50-Year	227.73	193.03	198.14	195.30	198.19	0.000552	2.07	250.76	264.36	0.17	
US Route 1-DS06	15640	100-Year	261.89	193.03	198.26	195.48	198.31	0.000568	2.14	283.86	283.40	0.17	
US Route 1-DS06	15640	500-Year	396.06	193.03	198.62	196.17	198.66	0.000597	2.29	392.33	328.60	0.18	
US Route 1-DS06	15590	FEMA "I"	2-Year	53.24	194.40	195.87	195.38	0.004625	2.37	26.47	41.81	0.40	
US Route 1-DS06	15590	FEMA "I"	10-Year	138.40	194.40	197.31	195.98	0.000923	1.86	145.05	112.00	0.21	
US Route 1-DS06	15590	FEMA "I"	25-Year	191.47	194.40	197.93	196.24	0.000610	1.75	221.80	138.53	0.17	
US Route 1-DS06	15590	FEMA "I"	50-Year	227.73	194.40	198.12	196.37	0.000641	1.86	249.33	161.11	0.18	
US Route 1-DS06	15590	FEMA "I"	100-Year	261.89	194.40	198.23	196.50	0.000703	1.99	269.28	180.73	0.19	
US Route 1-DS06	15590	FEMA "I"	500-Year	396.06	194.40	198.57	196.89	0.000906	2.41	339.78	237.15	0.22	
US Route 1-DS06	15405	2-Year	53.24	193.80	195.67		195.69	0.000652	1.18	96.45	180.29	0.16	
US Route 1-DS06	15405	10-Year	138.40	193.80	197.29		197.29	0.000126	0.82	429.14	236.01	0.08	
US Route 1-DS06	15405	25-Year	191.47	193.80	197.91		197.91	0.000109	0.85	584.63	268.03	0.08	
US Route 1-DS06	15405	50-Year	227.73	193.80	198.09		198.10	0.000124	0.94	634.84	276.06	0.08	
US Route 1-DS06	15405	100-Year	261.89	193.80	198.20		198.21	0.000143	1.03	666.17	280.04	0.09	
US Route 1-DS06	15405	500-Year	396.06	193.80	198.52		198.53	0.000232	1.37	757.05	291.25	0.11	
US Route 1-DS06	15215	FEMA "H"	2-Year	53.24	192.29	195.56		195.58	0.000301	1.09	57.21	35.47	0.12
US Route 1-DS06	15215	FEMA "H"	10-Year	138.40	192.29	197.22		197.25	0.000309	1.52	140.79	67.61	0.13
US Route 1-DS06	15215	FEMA "H"	25-Year	191.47	192.29	197.84		197.87	0.000299	1.64	183.48	70.85	0.13
US Route 1-DS06	15215	FEMA "H"	50-Year	227.73	192.29	198.00		198.04	0.000359	1.84	195.87	115.80	0.14
US Route 1-DS06	15215	FEMA "H"	100-Year	261.89	192.29	198.10		198.15	0.000431	2.04	207.28	123.56	0.16
US Route 1-DS06	15215	FEMA "H"	500-Year	396.06	192.29	198.34		198.43	0.000746	2.76	240.89	161.57	0.21
US Route 1-DS06	15180	2-Year	53.24	191.25	195.54	193.24	195.57	0.000419	1.19	46.21	17.42	0.12	
US Route 1-DS06	15180	10-Year	138.40	191.25	197.18	193.92	197.23	0.000567	1.83	96.93	121.85	0.15	
US Route 1-DS06	15180	25-Year	191.47	191.25	197.82	194.27	197.85	0.000402	1.68	215.05	253.38	0.13	
US Route 1-DS06	15180	50-Year	227.73	191.25	198.00	194.49	198.03	0.000414	1.74	248.66	286.92	0.13	
US Route 1-DS06	15180	100-Year	261.89	191.25	198.09	194.67	198.13	0.000456	1.85	267.99	350.60	0.14	
US Route 1-DS06	15180	500-Year	396.06	191.25	198.33	195.37	198.39	0.000710	2.38	335.66	385.02	0.17	
US Route 1-DS06	15137.5	Silent Grove N	Culvert										
US Route 1-DS06	15100	2-Year	53.24	190.78	195.45	192.06	195.45	0.000067	0.64	87.12	29.59	0.06	
US Route 1-DS06	15100	10-Year	138.40	190.78	196.67	192.73	196.68	0.000155	1.16	147.89	99.02	0.09	
US Route 1-DS06	15100	25-Year	191.47	190.78	197.82	193.06	197.83	0.000061	0.83	376.17	323.40	0.06	
US Route 1-DS06	15100	50-Year	227.73	190.78	198.00	193.26	198.00	0.000066	0.87	437.90	373.98	0.06	
US Route 1-DS06	15100	100-Year	261.89	190.78	198.11	193.44	198.12	0.000070	0.92	483.35	395.91	0.06	
US Route 1-DS06	15100	500-Year	396.06	190.78	198.38	194.09	198.39	0.000099	1.12	592.33	430.00	0.07	
US Route 1-DS06	15050	2-Year	53.24	191.92	195.43		195.44	0.000268	0.87	61.56	32.33	0.11	
US Route 1-DS06	15050	10-Year	138.40	191.92	196.65		196.67	0.000348	1.33	125.26	108.06	0.13	
US Route 1-DS06	15050	25-Year	191.47	191.92	197.82		197.82	0.000062	0.69	427.20	381.49	0.06	
US Route 1-DS06	15050	50-Year	227.73	191.92	197.99		198.00	0.000060	0.70	496.87	405.50	0.06	
US Route 1-DS06	15050	100-Year	261.89	191.92	198.11		198.12	0.000075	0.79	571.93	664.44	0.06	
US Route 1-DS06	15050	500-Year	396.06	191.92	198.37		198.38	0.000086	0.88	751.37	694.99	0.07	
US Route 1-DS05	14770	2-Year	85.94	193.00	195.26		195.30	0.000978	1.63	67.35	109.90	0.20	
US Route 1-DS05	14770	10-Year	196.38	193.00	196.61		196.62	0.000120	0.81	309.78	213.14	0.08	
US Route 1-DS05	14770	25-Year	267.61	193.00	197.81		197.81	0.000037	0.55	605.88	297.48	0.05	
US Route 1-DS05	14770	50-Year	317.01	193.00	197.98		197.99	0.000041	0.59	659.46	311.93	0.05	
US Route 1-DS05	14770	100-Year	362.61	193.00	198.10		198.10	0.000047	0.64	695.58	320.99	0.05	
US Route 1-DS05	14770	500-Year	470.47	193.00	198.36		198.36	0.000058	0.74	781.68	341.47	0.06	
US Route 1-DS05	14590	2-Year	85.94	193.20	194.50	194.40	194.79	0.019610	4.42	21.93	31.55	0.80	
US Route 1-DS05	14590	10-Year	196.38	193.20	196.55		196.57	0.000623	1.71	202.16	171.57	0.17	
US Route 1-DS05	14590	25-Year	267.61	193.20	197.79		197.80	0.000122	0.95	437.99	213.18	0.08	
US Route 1-DS05	14590	50-Year	317.01	193.20	197.96		197.97	0.000135	1.03	475.62	220.01	0.09	
US Route 1-DS05	14590	100-Year	362.61	193.20	198.07		198.09	0.000153	1.11	500.37	223.77	0.09	
US Route 1-DS05	14590	500-Year	470.47	193.20	198.33		198.34	0.000187	1.28	558.33	231.66	0.10	
US Route 1-DS05	14390	2-Year	85.94	192.80	194.18	193.38	194.20	0.000975	1.14	76.64	70.33	0.19	
US Route 1-DS05	14390	10-Year	196.38	192.80	196.52	193.68	196.53	0.000115	0.82	282.86	147.83	0.08	
US Route 1-DS05	14390	25-Year	267.61	192.80	197.77	193.83	197.78	0.000068	0.77	437.46	178.90	0.06	

Deadman Brook Existing Conditions

HEC-RAS Plan: Existing (Continued)

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
US Route 1-DS05	14390	50-Year	317.01	192.80	197.94	193.92	197.95	0.000083	0.87	458.95	182.38	0.07
US Route 1-DS05	14390	100-Year	362.61	192.80	198.05	194.01	198.06	0.000100	0.97	472.59	184.08	0.08
US Route 1-DS05	14390	500-Year	470.47	192.80	198.29	194.20	198.31	0.000141	1.19	503.96	186.60	0.09
US Route 1-DS05	14325	2-Year	85.94	190.83	192.98	192.98	193.77	0.035168	7.09	12.12	7.73	1.00
US Route 1-DS05	14325	10-Year	196.38	190.83	196.15	194.18	196.42	0.003810	4.37	65.21	103.25	0.37
US Route 1-DS05	14325	25-Year	267.61	190.83	197.74	194.86	197.77	0.000379	1.69	277.77	177.07	0.12
US Route 1-DS05	14325	50-Year	317.01	190.83	197.90	195.30	197.93	0.000416	1.80	302.53	185.93	0.13
US Route 1-DS05	14325	100-Year	362.61	190.83	198.01	195.66	198.04	0.000471	1.94	317.88	223.74	0.14
US Route 1-DS05	14325	500-Year	470.47	190.83	198.24	196.67	198.29	0.000579	2.20	353.49	227.22	0.15
US Route 1-DS05	14295 Cross Hwy		Culvert									
US Route 1-DS05	14265	2-Year	85.94	190.85	193.02	192.07	193.15	0.002159	2.89	29.72	40.74	0.38
US Route 1-DS05	14265	10-Year	196.38	190.85	195.59	192.83	195.60	0.000114	1.11	184.17	53.41	0.10
US Route 1-DS05	14265	25-Year	267.61	190.85	196.94	193.23	196.96	0.000072	1.06	276.52	87.71	0.08
US Route 1-DS05	14265	50-Year	317.01	190.85	197.12	193.47	197.14	0.000088	1.20	292.12	91.64	0.09
US Route 1-DS05	14265	100-Year	362.61	190.85	197.20	193.69	197.23	0.000108	1.34	300.19	104.42	0.10
US Route 1-DS05	14265	500-Year	470.47	190.85	197.42	194.16	197.46	0.000156	1.66	320.74	118.83	0.12
US Route 1-DS05	14200	2-Year	85.94	190.12	192.87	191.54	193.01	0.001701	3.10	29.07	34.71	0.33
US Route 1-DS05	14200	10-Year	196.38	190.12	195.56	192.62	195.59	0.000153	1.44	144.12	52.00	0.11
US Route 1-DS05	14200	25-Year	267.61	190.12	196.93	193.05	196.95	0.000083	1.25	253.88	68.05	0.09
US Route 1-DS05	14200	50-Year	317.01	190.12	197.10	193.33	197.13	0.000104	1.43	266.10	86.47	0.10
US Route 1-DS05	14200	100-Year	362.61	190.12	197.19	193.56	197.22	0.000129	1.60	272.75	92.51	0.11
US Route 1-DS05	14200	500-Year	470.47	190.12	197.39	194.10	197.44	0.000189	1.98	290.98	107.34	0.13
US Route 1-DS05	14180 Driveway Bridge		Bridge									
US Route 1-DS05	14160	2-Year	85.94	190.12	192.27	191.69	192.69	0.009848	5.21	16.48	7.67	0.63
US Route 1-DS05	14160	10-Year	196.38	190.12	192.86	192.86	194.22	0.026038	9.36	20.98	7.67	1.00
US Route 1-DS05	14160	25-Year	267.61	190.12	193.48	193.48	195.15	0.027608	10.40	25.74	7.67	1.00
US Route 1-DS05	14160	50-Year	317.01	190.12	193.87	193.87	195.76	0.028653	11.01	28.79	7.67	1.00
US Route 1-DS05	14160	100-Year	362.61	190.12	194.23	194.23	196.28	0.029453	11.50	31.52	7.67	1.00
US Route 1-DS05	14160	500-Year	470.47	190.12	196.15	196.15	196.61	0.006232	6.42	100.38	101.61	0.46
US Route 1-DS05	14125 FEMA "G"	2-Year	85.94	190.20	191.67	191.67	192.18	0.014446	5.86	15.44	16.55	0.92
US Route 1-DS05	14125 FEMA "G"	10-Year	196.38	190.20	192.46	192.46	193.21	0.011718	7.31	29.59	22.88	0.90
US Route 1-DS05	14125 FEMA "G"	25-Year	267.61	190.20	192.84	192.84	193.70	0.010981	7.93	37.69	25.86	0.90
US Route 1-DS05	14125 FEMA "G"	50-Year	317.01	190.20	193.08	193.08	194.00	0.010583	8.28	43.08	27.77	0.89
US Route 1-DS05	14125 FEMA "G"	100-Year	362.61	190.20	193.28	193.28	194.26	0.010201	8.54	48.04	29.57	0.89
US Route 1-DS05	14125 FEMA "G"	500-Year	470.47	190.20	193.62	193.62	194.60	0.009488	8.86	63.22	32.47	0.87
US Route 1-DS05	13995	2-Year	85.94	189.80	191.00		191.02	0.000853	1.29	67.20	67.25	0.22
US Route 1-DS05	13995	10-Year	196.38	189.80	191.53		191.58	0.001107	1.93	104.37	72.76	0.27
US Route 1-DS05	13995	25-Year	267.61	189.80	191.77		191.85	0.001256	2.25	122.33	75.63	0.29
US Route 1-DS05	13995	50-Year	317.01	189.80	191.91		192.00	0.001354	2.46	133.28	77.51	0.31
US Route 1-DS05	13995	100-Year	362.61	189.80	192.03		192.14	0.001438	2.64	142.72	79.18	0.32
US Route 1-DS05	13995	500-Year	470.47	189.80	192.28		192.42	0.001622	3.02	162.95	82.88	0.35
US Route 1-DS05	13845	2-Year	85.94	189.80	190.57		190.70	0.008281	2.86	30.07	47.17	0.63
US Route 1-DS05	13845	10-Year	196.38	189.80	190.99		191.21	0.007457	3.78	55.07	73.74	0.65
US Route 1-DS05	13845	25-Year	267.61	189.80	191.20		191.44	0.006834	4.09	71.48	83.05	0.64
US Route 1-DS05	13845	50-Year	317.01	189.80	191.35		191.60	0.006118	4.17	84.39	89.79	0.62
US Route 1-DS05	13845	100-Year	362.61	189.80	191.46		191.72	0.005892	4.30	94.52	94.74	0.61
US Route 1-DS05	13845	500-Year	470.47	189.80	191.72		191.99	0.005190	4.48	120.17	106.25	0.59
US Route 1-DS05	13640	2-Year	85.94	186.60	187.78		188.22	0.018039	5.34	17.02	23.05	0.99
US Route 1-DS05	13640	10-Year	196.38	186.60	188.46		189.12	0.013396	6.68	37.80	39.96	0.93
US Route 1-DS05	13640	25-Year	267.61	186.60	188.81		189.55	0.011942	7.20	53.60	50.29	0.91
US Route 1-DS05	13640	50-Year	317.01	186.60	188.99		189.81	0.011998	7.65	63.06	55.56	0.93
US Route 1-DS05	13640	100-Year	362.61	186.60	189.20		190.03	0.010994	7.80	75.52	64.40	0.90
US Route 1-DS05	13640	500-Year	470.47	186.60	189.59		190.47	0.009890	8.21	104.32	81.48	0.88
US Route 1-DS05	13440	2-Year	85.94	184.00	185.58		185.77	0.006963	3.98	28.63	60.49	0.64
US Route 1-DS05	13440	10-Year	196.38	184.00	186.38		186.46	0.001811	2.86	99.06	118.71	0.36
US Route 1-DS05	13440	25-Year	267.61	184.00	186.56		186.65	0.002037	3.21	121.18	133.73	0.38
US Route 1-DS05	13440	50-Year	317.01	184.00	186.66		186.77	0.002145	3.40	135.92	142.87	0.40
US Route 1-DS05	13440	100-Year	362.61	184.00	186.76		186.87	0.002207	3.54	149.54	150.82	0.40
US Route 1-DS05	13440	500-Year	470.47	184.00	186.95		187.08	0.002300	3.81	180.75	167.61	0.42
US Route 1-DS05	13385	2-Year	85.94	182.68	185.43		185.54	0.002069	3.13	44.19	53.78	0.33
US Route 1-DS05	13385	10-Year	196.38	182.68	186.30		186.37	0.001358	3.04	122.33	122.53	0.28
US Route 1-DS05	13385	25-Year	267.61	182.68	186.45		186.54	0.001745	3.54	141.31	130.32	0.32
US Route 1-DS05	13385	50-Year	317.01	182.68	186.53		186.65	0.001992	3.84	153.06	134.92	0.34
US Route 1-DS05	13385	100-Year	362.61	182.68	186.61		186.74	0.002187	4.08	163.74	138.97	0.36
US Route 1-DS05	13385	500-Year	470.47	182.68	186.77		186.93	0.002618	4.59	186.82	148.10	0.40
US Route 1-DS05	13375.44 Footbridge		Bridge									
US Route 1-DS05	13360	2-Year	85.94	182.20	184.55		184.69	0.002166	3.02	29.94	30.70	0.36
US Route 1-DS05	13360	10-Year	196.38	182.20	185.76		185.82	0.000815	2.49	121.37	122.94	0.24
US Route 1-DS05	13360	25-Year	267.61	182.20	185.99		186.06	0.000889	2.72	151.03	132.51	0.25

Deadman Brook Existing Conditions

HEC-RAS Plan: Existing (Continued)

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
US Route 1-DS05	13360	50-Year	317.01	182.20	186.13	185.06	186.20	0.000989	2.93	169.97	145.57	0.27
US Route 1-DS05	13360	100-Year	362.61	182.20	186.21	185.46	186.29	0.001085	3.12	182.65	151.15	0.28
US Route 1-DS05	13360	500-Year	470.47	182.20	186.42	185.67	186.51	0.001223	3.43	214.80	164.44	0.30
US Route 1-DS05	13300	2-Year	85.94	181.40	184.48	183.23	184.55	0.001062	2.45	41.51	41.38	0.25
US Route 1-DS05	13300	10-Year	196.38	181.40	185.74	184.15	185.77	0.000350	1.77	159.78	108.02	0.15
US Route 1-DS05	13300	25-Year	267.61	181.40	185.97	184.45	186.00	0.000432	2.03	184.40	111.41	0.17
US Route 1-DS05	13300	50-Year	317.01	181.40	186.09	184.63	186.14	0.000510	2.25	198.99	118.85	0.18
US Route 1-DS05	13300	100-Year	362.61	181.40	186.17	185.07	186.22	0.000605	2.47	208.52	124.65	0.20
US Route 1-DS05	13300	500-Year	470.47	181.40	186.36	185.22	186.43	0.000799	2.92	233.31	138.61	0.23
US Route 1-DS05	13287.5 Footbridge		Bridge									
US Route 1-DS05	13275	2-Year	85.94	181.40	184.45	182.98	184.49	0.000606	1.91	64.82	76.45	0.20
US Route 1-DS05	13275	10-Year	196.38	181.40	185.73	183.87	185.75	0.000214	1.46	207.48	149.26	0.13
US Route 1-DS05	13275	25-Year	267.61	181.40	185.96	184.12	185.98	0.000272	1.70	243.22	165.38	0.14
US Route 1-DS05	13275	50-Year	317.01	181.40	186.08	184.23	186.11	0.000301	1.82	264.72	168.93	0.15
US Route 1-DS05	13275	100-Year	362.61	181.40	186.16	184.68	186.19	0.000342	1.97	278.01	170.55	0.16
US Route 1-DS05	13275	500-Year	470.47	181.40	186.35	184.84	186.39	0.000418	2.23	310.78	174.48	0.18
US Route 1-DS05	13240	2-Year	85.94	181.20	184.44	183.04	184.47	0.000395	1.69	77.89	96.99	0.17
US Route 1-DS05	13240	10-Year	196.38	181.20	185.73	183.85	185.74	0.000131	1.24	233.55	133.09	0.11
US Route 1-DS05	13240	25-Year	267.61	181.20	185.95	183.99	185.97	0.000176	1.49	263.97	140.91	0.12
US Route 1-DS05	13240	50-Year	317.01	181.20	186.08	183.99	186.10	0.000208	1.65	282.18	146.62	0.14
US Route 1-DS05	13240	100-Year	362.61	181.20	186.15	183.99	186.18	0.000248	1.82	293.59	150.47	0.15
US Route 1-DS05	13240	500-Year	470.47	181.20	186.34	184.66	186.38	0.000331	2.16	322.52	159.85	0.17
US Route 1-DS05	13205	2-Year	85.94	179.03	184.44	181.00	184.46	0.000208	1.39	80.06	98.65	0.11
US Route 1-DS05	13205	10-Year	196.38	179.03	185.73	182.43	185.74	0.000088	1.06	277.37	150.28	0.07
US Route 1-DS05	13205	25-Year	267.61	179.03	185.95	182.99	185.96	0.000122	1.27	311.61	159.03	0.09
US Route 1-DS05	13205	50-Year	317.01	179.03	186.08	183.83	186.09	0.000144	1.40	332.03	163.89	0.09
US Route 1-DS05	13205	100-Year	362.61	179.03	186.15	184.06	186.17	0.000171	1.54	344.64	166.77	0.10
US Route 1-DS05	13205	500-Year	470.47	179.03	186.34	184.32	186.36	0.000229	1.81	376.23	173.77	0.12
US Route 1-DS05	13167.5 Melon Patch Ln		Culvert									
US Route 1-DS05	13130	2-Year	85.94	177.59	180.53	179.01	180.61	0.000826	2.26	38.04	22.00	0.25
US Route 1-DS05	13130	10-Year	196.38	177.59	181.49	179.74	181.71	0.001484	3.75	52.39	24.57	0.35
US Route 1-DS05	13130	25-Year	267.61	177.59	181.93	180.14	182.11	0.001381	3.46	80.24	25.75	0.32
US Route 1-DS05	13130	50-Year	317.01	177.59	182.17	180.40	182.39	0.001574	3.83	86.56	27.05	0.35
US Route 1-DS05	13130	100-Year	362.61	177.59	182.34	180.62	182.60	0.001783	4.17	91.35	28.19	0.37
US Route 1-DS05	13130	500-Year	470.47	177.59	182.69	181.13	183.04	0.002272	4.92	101.48	30.45	0.42
US Route 1-DS05	13010	2-Year	85.94	176.70	180.42	178.11	180.50	0.001065	2.34	42.53	29.98	0.21
US Route 1-DS05	13010	10-Year	196.38	176.70	181.34	179.16	181.48	0.001616	3.35	75.78	44.44	0.27
US Route 1-DS05	13010	25-Year	267.61	176.70	181.74	180.36	181.91	0.001820	3.75	95.60	66.91	0.29
US Route 1-DS05	13010	50-Year	317.01	176.70	181.97	180.67	182.15	0.001911	3.96	108.98	90.51	0.30
US Route 1-DS05	13010	100-Year	362.61	176.70	182.13	180.86	182.33	0.002117	4.25	118.76	102.38	0.32
US Route 1-DS05	13010	500-Year	470.47	176.70	182.47	181.20	182.69	0.002357	4.67	168.69	127.87	0.34
US Route 1-DS05	12997.5 Footbridge		Bridge									
US Route 1-DS05	12985	2-Year	85.94	176.70	180.39	178.11	180.47	0.000981	2.32	45.60	31.25	0.21
US Route 1-DS05	12985	10-Year	196.38	176.70	181.03	179.16	181.21	0.002172	3.84	70.77	48.37	0.33
US Route 1-DS05	12985	25-Year	267.61	176.70	181.35	180.19	181.58	0.002628	4.43	87.93	60.53	0.36
US Route 1-DS05	12985	50-Year	317.01	176.70	181.69	180.57	181.90	0.002258	4.31	114.90	95.68	0.34
US Route 1-DS05	12985	100-Year	362.61	176.70	181.87	180.87	182.09	0.002325	4.48	133.82	113.44	0.35
US Route 1-DS05	12985	500-Year	470.47	176.70	182.21	181.28	182.43	0.002298	4.64	175.70	131.87	0.35
US Route 1-DS05	12935	2-Year	85.94	178.80	180.21		180.37	0.005113	3.22	28.21	31.98	0.54
US Route 1-DS05	12935	10-Year	196.38	178.80	180.92		181.08	0.003178	3.54	72.21	82.25	0.46
US Route 1-DS05	12935	25-Year	267.61	178.80	181.29		181.43	0.002303	3.41	106.64	104.76	0.41
US Route 1-DS05	12935	50-Year	317.01	178.80	181.68		181.78	0.001396	2.97	152.46	136.44	0.33
US Route 1-DS05	12935	100-Year	362.61	178.80	181.87		181.97	0.001263	2.96	178.86	158.90	0.31
US Route 1-DS05	12935	500-Year	470.47	178.80	182.20		182.31	0.001239	3.16	229.24	192.62	0.32
US Route 1-DS05	12770	2-Year	85.94	178.00	179.91		179.97	0.001275	2.19	44.19	36.61	0.29
US Route 1-DS05	12770	10-Year	196.38	178.00	180.51		180.67	0.002078	3.41	70.50	51.29	0.39
US Route 1-DS05	12770	25-Year	267.61	178.00	180.89		181.07	0.002022	3.72	92.18	61.27	0.40
US Route 1-DS05	12770	50-Year	317.01	178.00	181.43		181.56	0.001223	3.26	127.64	69.56	0.32
US Route 1-DS05	12770	100-Year	362.61	178.00	181.62		181.76	0.001224	3.38	141.18	72.03	0.32
US Route 1-DS05	12770	500-Year	470.47	178.00	181.91		182.09	0.001422	3.85	162.34	75.72	0.35
US Route 1-DS05	12570	2-Year	85.94	176.20	178.40	178.40	179.29	0.014124	7.80	14.42	69.58	0.98
US Route 1-DS05	12570	10-Year	196.38	176.20	179.48	179.48	179.95	0.006585	7.14	86.79	106.49	0.72
US Route 1-DS05	12570	25-Year	267.61	176.20	180.46	179.72	180.64	0.002369	5.16	167.38	129.04	0.45
US Route 1-DS05	12570	50-Year	317.01	176.20	181.41	179.86	181.44	0.000228	1.87	388.27	168.93	0.15
US Route 1-DS05	12570	100-Year	362.61	176.20	181.61	179.99	181.64	0.000243	1.98	421.69	179.11	0.15
US Route 1-DS05	12570	500-Year	470.47	176.20	181.90	180.25	181.94	0.000301	2.28	475.53	194.40	0.17
US Route 1-DS05	12520	2-Year	85.94	173.26	176.34	174.93	176.49	0.002258	3.11	27.68	11.26	0.35
US Route 1-DS05	12520	10-Year	196.38	173.26	178.73	175.96	178.91	0.001492	3.38	60.11	35.76	0.29
US Route 1-DS05	12520	25-Year	267.61	173.26	180.40	176.49	180.55	0.000833	3.12	101.59	151.72	0.23

Deadman Brook Existing Conditions

HEC-RAS Plan: Existing (Continued)

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
US Route 1-DS05	12520	50-Year	317.01	173.26	181.38	176.82	181.43	0.000291	2.05	406.29	198.33	0.14
US Route 1-DS05	12520	100-Year	362.61	173.26	181.58	177.12	181.62	0.000311	2.16	445.38	210.00	0.14
US Route 1-DS05	12520	500-Year	470.47	173.26	181.86	177.74	181.91	0.000385	2.47	507.44	227.20	0.16
US Route 1-DS05	12477.5 North Ave		Culvert									
US Route 1-DS05	12435	2-Year	85.94	173.20	175.88	174.25	175.94	0.000657	1.84	46.78	69.46	0.20
US Route 1-DS05	12435	10-Year	196.38	173.20	177.23	174.89	177.24	0.000159	0.91	216.98	95.55	0.11
US Route 1-DS05	12435	25-Year	267.61	173.20	177.42	175.23	177.44	0.000226	1.14	235.74	96.34	0.13
US Route 1-DS05	12435	50-Year	317.01	173.20	177.65	175.45	177.67	0.000238	1.23	257.56	97.26	0.13
US Route 1-DS05	12435	100-Year	362.61	173.20	177.86	175.65	177.89	0.000243	1.31	278.33	98.12	0.13
US Route 1-DS05	12435	500-Year	470.47	173.20	178.30	176.08	178.34	0.000256	1.47	322.34	99.76	0.14
US Route 1-DS05	12400	2-Year	101.53	172.80	175.00	175.00	175.68	0.012185	6.96	17.80	20.34	0.90
US Route 1-DS05	12400	10-Year	227.02	172.80	175.96	175.96	176.93	0.011045	8.74	34.64	47.95	0.92
US Route 1-DS05	12400	25-Year	294.23	172.80	176.59	176.59	177.23	0.006323	7.55	82.68	81.44	0.72
US Route 1-DS05	12400	50-Year	349.20	172.80	176.78	176.78	177.45	0.006465	7.92	98.19	82.37	0.73
US Route 1-DS05	12400	100-Year	404.09	172.80	176.93	176.93	177.65	0.006830	8.36	110.46	83.10	0.76
US Route 1-DS05	12400	500-Year	534.19	172.80	177.26	177.26	178.07	0.007505	9.26	138.36	85.67	0.80
US Route 1-DS05	12190	2-Year	101.53	169.00	170.52	170.28	170.86	0.008516	4.69	23.84	23.09	0.72
US Route 1-DS05	12190	10-Year	227.02	169.00	171.15	171.03	171.85	0.010992	6.90	40.12	28.57	0.87
US Route 1-DS05	12190	25-Year	294.23	169.00	171.39	171.36	172.29	0.012249	7.86	47.15	30.30	0.94
US Route 1-DS05	12190	50-Year	349.20	169.00	171.60	171.60	172.63	0.012473	8.43	53.63	31.81	0.96
US Route 1-DS05	12190	100-Year	404.09	169.00	171.83	171.83	172.94	0.011904	8.77	61.39	33.53	0.95
US Route 1-DS05	12190	500-Year	534.19	169.00	172.30	172.30	173.62	0.011631	9.67	78.04	38.48	0.97
US Route 1-DS05	11990 FEMA "F"	2-Year	101.53	166.48	167.86	167.86	168.24	0.020444	4.90	20.71	28.31	1.01
US Route 1-DS05	11990 FEMA "F"	10-Year	227.02	166.48	168.39	168.39	168.96	0.017576	6.09	37.52	34.19	1.01
US Route 1-DS05	11990 FEMA "F"	25-Year	294.23	166.48	168.61	168.61	169.28	0.016710	6.59	45.20	35.67	1.01
US Route 1-DS05	11990 FEMA "F"	50-Year	349.20	166.48	168.78	168.78	169.52	0.015858	6.90	51.55	36.85	1.00
US Route 1-DS05	11990 FEMA "F"	100-Year	404.09	166.48	168.93	168.93	169.74	0.015547	7.26	57.05	38.33	1.00
US Route 1-DS05	11990 FEMA "F"	500-Year	534.19	166.48	169.27	169.27	170.23	0.014341	7.91	70.69	42.28	1.00
US Route 1-DS05	11795	2-Year	101.53	163.40	166.65		166.66	0.000053	0.67	166.68	63.53	0.07
US Route 1-DS05	11795	10-Year	227.02	163.40	167.31		167.33	0.000138	1.21	210.99	74.90	0.11
US Route 1-DS05	11795	25-Year	294.23	163.40	167.56		167.59	0.000184	1.46	230.98	82.22	0.13
US Route 1-DS05	11795	50-Year	349.20	163.40	167.75		167.79	0.000221	1.65	246.74	87.56	0.14
US Route 1-DS05	11795	100-Year	404.09	163.40	167.92		167.97	0.000255	1.82	262.60	92.63	0.15
US Route 1-DS05	11795	500-Year	534.19	163.40	168.29		168.36	0.000331	2.19	298.17	100.63	0.18
US Route 1-DS05	11745	2-Year	101.53	162.00	166.60	163.49	166.64	0.000368	1.79	115.95	79.95	0.15
US Route 1-DS05	11745	10-Year	227.02	162.00	167.17	164.67	167.28	0.001001	3.20	167.95	102.39	0.25
US Route 1-DS05	11745	25-Year	294.23	162.00	167.38	165.18	167.53	0.001360	3.83	189.86	110.62	0.29
US Route 1-DS05	11745	50-Year	349.20	162.00	167.52	165.60	167.72	0.001650	4.29	206.52	116.52	0.32
US Route 1-DS05	11745	100-Year	404.09	162.00	167.66	165.80	167.89	0.001918	4.70	223.28	122.17	0.35
US Route 1-DS05	11745	500-Year	534.19	162.00	167.95	166.69	168.25	0.002525	5.58	260.10	133.75	0.40
US Route 1-DS05	11734.52 Footbridge		Bridge									
US Route 1-DS05	11725	2-Year	101.53	162.00	166.57	163.49	166.62	0.000425	1.85	86.34	63.84	0.15
US Route 1-DS05	11725	10-Year	227.02	162.00	167.08	164.64	167.21	0.001162	3.28	126.41	91.00	0.26
US Route 1-DS05	11725	25-Year	294.23	162.00	167.26	165.27	167.43	0.001579	3.91	142.72	96.83	0.30
US Route 1-DS05	11725	50-Year	349.20	162.00	167.38	165.71	167.59	0.001909	4.37	154.73	100.90	0.33
US Route 1-DS05	11725	100-Year	404.09	162.00	167.50	166.00	167.74	0.002189	4.75	167.28	105.00	0.36
US Route 1-DS05	11725	500-Year	534.19	162.00	167.74	166.87	168.05	0.002804	5.53	193.60	113.10	0.41
US Route 1-DS05	11715	2-Year	101.53	161.68	166.56	163.75	166.61	0.000607	2.02	69.43	72.20	0.17
US Route 1-DS05	11715	10-Year	227.02	161.68	167.10	165.02	167.18	0.001066	2.90	115.88	99.57	0.24
US Route 1-DS05	11715	25-Year	294.23	161.68	167.28	166.45	167.38	0.001241	3.21	135.05	105.70	0.26
US Route 1-DS05	11715	50-Year	349.20	161.68	167.42	166.65	167.53	0.001361	3.42	149.31	110.04	0.27
US Route 1-DS05	11715	100-Year	404.09	161.68	167.55	166.80	167.67	0.001434	3.57	164.06	114.35	0.28
US Route 1-DS05	11715	500-Year	534.19	161.68	167.81	167.08	167.95	0.001599	3.90	194.96	122.90	0.30
US Route 1-DS05	11690 Driveway Bridge		Culvert									
US Route 1-DS05	11665	2-Year	101.53	161.77	166.21	163.32	166.22	0.000084	0.92	238.64	141.29	0.08
US Route 1-DS05	11665	10-Year	227.02	161.77	166.75	164.19	166.77	0.000210	1.59	318.49	153.94	0.13
US Route 1-DS05	11665	25-Year	294.23	161.77	166.97	164.50	167.00	0.000275	1.88	352.86	159.07	0.15
US Route 1-DS05	11665	50-Year	349.20	161.77	167.12	164.70	167.16	0.000330	2.10	376.38	162.82	0.17
US Route 1-DS05	11665	100-Year	404.09	161.77	167.24	164.96	167.29	0.000388	2.31	396.79	166.07	0.18
US Route 1-DS05	11665	500-Year	534.19	161.77	167.50	165.30	167.56	0.000525	2.78	440.05	172.76	0.21
US Route 1-DS05	11585	2-Year	101.53	162.60	166.21		166.21	0.000019	0.43	291.47	131.12	0.04
US Route 1-DS05	11585	10-Year	227.02	162.60	166.75		166.76	0.000057	0.82	372.65	169.97	0.07
US Route 1-DS05	11585	25-Year	294.23	162.60	166.97		166.98	0.000078	0.99	411.60	186.06	0.08
US Route 1-DS05	11585	50-Year	349.20	162.60	167.11		167.13	0.000098	1.13	442.30	222.06	0.09
US Route 1-DS05	11585	100-Year	404.09	162.60	167.24		167.26	0.000118	1.27	470.19	230.62	0.10
US Route 1-DS05	11585	500-Year	534.19	162.60	167.49		167.52	0.000167	1.56	530.82	248.21	0.13
US Route 1-DS05	11505	2-Year	101.53	160.19	166.21	163.11	166.21	0.000027	0.50	238.73	131.33	0.05
US Route 1-DS05	11505	10-Year	227.02	160.19	166.74	163.61	166.75	0.000069	0.88	302.14	147.16	0.07
US Route 1-DS05	11505	25-Year	294.23	160.19	166.96	163.83	166.98	0.000090	1.04	329.20	153.56	0.09

Deadman Brook Existing Conditions

HEC-RAS Plan: Existing (Continued)

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
US Route 1-DS05	11505	50-Year	349.20	160.19	167.11	164.00	167.12	0.000110	1.17	347.67	159.70	0.10
US Route 1-DS05	11505	100-Year	404.09	160.19	167.23	164.15	167.25	0.000130	1.30	363.83	165.44	0.10
US Route 1-DS05	11505	500-Year	534.19	160.19	167.48	164.50	167.51	0.000179	1.57	398.55	177.21	0.12
US Route 1-DS05	11480 Driveway Bridge	Bridge										
US Route 1-DS05	11455	2-Year	101.53	160.00	164.34	162.32	164.37	0.000321	1.60	108.31	160.77	0.15
US Route 1-DS05	11455	10-Year	227.02	160.00	164.95	163.22	164.98	0.000317	1.78	207.72	164.85	0.16
US Route 1-DS05	11455	25-Year	294.23	160.00	165.38	163.42	165.40	0.000233	1.63	279.30	175.82	0.14
US Route 1-DS05	11455	50-Year	349.20	160.00	165.82	164.37	165.83	0.000160	1.44	360.11	195.10	0.12
US Route 1-DS05	11455	100-Year	404.09	160.00	166.15	164.44	166.16	0.000132	1.37	426.16	204.37	0.11
US Route 1-DS05	11455	500-Year	534.19	160.00	166.74	164.59	166.76	0.000108	1.33	551.15	215.03	0.10
US Route 1-DS05	11400	2-Year	101.53	162.80	164.26		164.32	0.004645	3.12	61.60	154.98	0.46
US Route 1-DS05	11400	10-Year	227.02	162.80	164.92		164.95	0.000925	1.79	166.76	164.39	0.22
US Route 1-DS05	11400	25-Year	294.23	162.80	165.35		165.38	0.000488	1.47	239.52	172.09	0.16
US Route 1-DS05	11400	50-Year	349.20	162.80	165.80		165.82	0.000282	1.24	318.56	180.45	0.13
US Route 1-DS05	11400	100-Year	404.09	162.80	166.13		166.15	0.000221	1.18	379.37	186.80	0.11
US Route 1-DS05	11400	500-Year	534.19	162.80	166.73		166.75	0.000175	1.17	494.37	198.89	0.10
US Route 1-DS05	11345	2-Year	101.53	159.82	164.20	161.49	164.25	0.000547	1.84	63.72	100.52	0.16
US Route 1-DS05	11345	10-Year	227.02	159.82	164.84	162.39	164.90	0.000699	2.30	135.77	116.01	0.19
US Route 1-DS05	11345	25-Year	294.23	159.82	165.31	162.80	165.35	0.000461	1.99	190.87	122.86	0.16
US Route 1-DS05	11345	50-Year	349.20	159.82	165.77	163.12	165.80	0.000297	1.70	249.62	130.56	0.13
US Route 1-DS05	11345	100-Year	404.09	159.82	166.10	164.52	166.14	0.000245	1.60	294.32	135.89	0.12
US Route 1-DS05	11345	500-Year	534.19	159.82	166.70	164.71	166.74	0.000203	1.56	378.18	144.45	0.11
US Route 1-DS05	11335 Footbridge	Bridge										
US Route 1-DS05	11325	2-Year	101.53	159.82	164.14	161.53	164.22	0.000673	2.50	55.03	77.95	0.21
US Route 1-DS05	11325	10-Year	227.02	159.82	164.59	162.42	164.80	0.001813	4.39	74.07	97.62	0.35
US Route 1-DS05	11325	25-Year	294.23	159.82	165.20	162.84	165.31	0.000958	3.46	137.08	109.09	0.26
US Route 1-DS05	11325	50-Year	349.20	159.82	165.72	163.14	165.78	0.000500	2.66	198.67	126.72	0.19
US Route 1-DS05	11325	100-Year	404.09	159.82	166.07	163.40	166.12	0.000369	2.37	244.39	134.39	0.17
US Route 1-DS05	11325	500-Year	534.19	159.82	166.68	165.07	166.72	0.000268	2.15	327.92	141.01	0.14
US Route 1-DS05	11270	2-Year	101.53	162.00	163.76		164.06	0.007606	4.66	27.23	33.33	0.69
US Route 1-DS05	11270	10-Year	227.02	162.00	164.42		164.68	0.004502	4.62	62.91	77.07	0.56
US Route 1-DS05	11270	25-Year	294.23	162.00	165.09		165.23	0.001446	3.15	118.29	92.10	0.33
US Route 1-DS05	11270	50-Year	349.20	162.00	165.63		165.74	0.000757	2.57	169.58	96.73	0.25
US Route 1-DS05	11270	100-Year	404.09	162.00	165.98		166.08	0.000603	2.45	204.01	99.71	0.23
US Route 1-DS05	11270	500-Year	534.19	162.00	166.58		166.69	0.000501	2.48	264.82	103.55	0.21
US Route 1-DS05	11045	2-Year	135.99	160.20	162.04	161.69	162.41	0.007019	4.90	31.31	31.79	0.68
US Route 1-DS05	11045	10-Year	277.18	160.20	162.90	162.59	163.44	0.006285	6.15	66.60	90.97	0.69
US Route 1-DS05	11045	25-Year	384.12	160.20	164.85		164.98	0.000910	3.44	290.99	166.26	0.29
US Route 1-DS05	11045	50-Year	483.66	160.20	165.46		165.57	0.000736	3.37	394.45	173.34	0.26
US Route 1-DS05	11045	100-Year	572.84	160.20	165.82		165.93	0.000726	3.50	457.27	176.79	0.27
US Route 1-DS05	11045	500-Year	778.28	160.20	166.41		166.54	0.000794	3.93	563.22	181.85	0.28
US Route 1-DS05	10845	2-Year	135.99	158.40	159.78	159.78	160.28	0.017134	5.73	25.60	29.93	0.98
US Route 1-DS05	10845	10-Year	277.18	158.40	163.08		163.12	0.000303	1.96	254.98	84.22	0.17
US Route 1-DS05	10845	25-Year	384.12	158.40	164.86		164.89	0.000141	1.68	415.10	95.58	0.12
US Route 1-DS05	10845	50-Year	483.66	158.40	165.46		165.49	0.000151	1.85	472.61	98.38	0.13
US Route 1-DS05	10845	100-Year	572.84	158.40	165.81		165.85	0.000171	2.04	507.42	99.88	0.14
US Route 1-DS05	10845	500-Year	778.28	158.40	166.38		166.44	0.000227	2.48	565.61	102.86	0.16
US Route 1-DS05	10795	2-Year	135.99	155.63	159.84	157.27	159.89	0.000450	1.79	76.01	24.73	0.18
US Route 1-DS05	10795	10-Year	277.18	155.63	163.07	158.04	163.11	0.000170	1.58	184.00	45.62	0.12
US Route 1-DS05	10795	25-Year	384.12	155.63	164.85	158.52	164.88	0.000107	1.51	280.22	63.28	0.10
US Route 1-DS05	10795	50-Year	483.66	155.63	165.44	158.91	165.48	0.000121	1.70	319.42	70.64	0.11
US Route 1-DS05	10795	100-Year	572.84	155.63	165.79	159.24	165.84	0.000140	1.88	344.82	75.58	0.12
US Route 1-DS05	10795	500-Year	778.28	155.63	166.35	159.91	166.42	0.000188	2.28	390.60	86.71	0.14
US Route 1-DS05	10755 Pumpkin Hill Rd	Culvert										
US Route 1-DS05	10715	2-Year	135.99	153.93	156.50	155.52	156.66	0.002461	3.22	43.85	22.87	0.39
US Route 1-DS05	10715	10-Year	277.18	153.93	157.43	156.22	157.74	0.003091	4.49	66.12	24.95	0.46
US Route 1-DS05	10715	25-Year	384.12	153.93	157.99	156.66	158.40	0.003424	5.21	80.37	26.19	0.49
US Route 1-DS05	10715	50-Year	483.66	153.93	158.46	157.04	158.96	0.003631	5.76	93.23	28.07	0.51
US Route 1-DS05	10715	100-Year	572.84	153.93	158.82	157.35	159.41	0.003859	6.23	103.62	29.51	0.53
US Route 1-DS05	10715	500-Year	778.28	153.93	159.52	158.00	160.30	0.004419	7.22	125.08	32.39	0.57
US Route 1-DS05	10665	2-Year	135.99	154.20	155.71	155.71	156.28	0.016039	6.12	24.55	24.76	0.98
US Route 1-DS05	10665	10-Year	277.18	154.20	156.42	156.42	157.28	0.013693	7.67	43.64	28.88	0.97
US Route 1-DS05	10665	25-Year	384.12	154.20	156.85	156.85	157.91	0.012901	8.52	56.66	30.96	0.98
US Route 1-DS05	10665	50-Year	483.66	154.20	157.20	157.20	158.43	0.012622	9.25	67.97	33.70	0.99
US Route 1-DS05	10665	100-Year	572.84	154.20	157.54	157.54	158.87	0.011793	9.66	79.81	37.07	0.97
US Route 1-DS05	10665	500-Year	778.28	154.20	158.22	158.22	159.74	0.010573	10.46	107.39	43.58	0.95
US Route 1-DS05	10470	2-Year	135.99	149.40	150.86	150.86	151.41	0.016307	6.01	25.00	26.93	0.98
US Route 1-DS05	10470	10-Year	277.18	149.40	151.54	151.54	152.37	0.013900	7.51	44.87	31.51	0.97
US Route 1-DS05	10470	25-Year	384.12	149.40	151.95	151.95	152.96	0.013150	8.36	58.38	33.97	0.98

Deadman Brook Existing Conditions

HEC-RAS Plan: Existing (Continued)

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
US Route 1-DS05	10470	50-Year	483.66	149.40	152.31	152.31	153.46	0.012458	8.97	70.89	36.42	0.98
US Route 1-DS05	10470	100-Year	572.84	149.40	152.59	152.59	153.86	0.012070	9.46	81.67	38.45	0.98
US Route 1-DS05	10470	500-Year	778.28	149.40	153.21	153.21	154.70	0.011236	10.38	106.66	42.99	0.97
US Route 1-DS05	10280	2-Year	135.99	145.20	147.25		147.31	0.001250	2.11	74.15	55.14	0.29
US Route 1-DS05	10280	10-Year	277.18	145.20	147.68		147.85	0.002347	3.37	99.34	61.81	0.41
US Route 1-DS05	10280	25-Year	384.12	145.20	147.85		148.12	0.003417	4.29	110.29	64.50	0.50
US Route 1-DS05	10280	50-Year	483.66	145.20	147.98		148.36	0.004442	5.08	118.97	66.55	0.58
US Route 1-DS05	10280	100-Year	572.84	145.20	148.08		148.57	0.005388	5.75	125.71	67.41	0.64
US Route 1-DS05	10280	500-Year	778.28	145.20	148.26	147.92	149.02	0.007795	7.23	137.77	68.69	0.78
US Route 1-DS05	10220	2-Year	135.99	143.00	147.25	144.16	147.27	0.000144	1.18	152.59	96.64	0.10
US Route 1-DS05	10220	10-Year	277.18	143.00	147.70	144.88	147.74	0.000307	1.84	196.85	99.71	0.15
US Route 1-DS05	10220	25-Year	384.12	143.00	147.90	145.42	147.96	0.000453	2.30	216.51	101.05	0.18
US Route 1-DS05	10220	50-Year	483.66	143.00	148.06	145.80	148.14	0.000588	2.67	232.61	102.19	0.21
US Route 1-DS05	10220	100-Year	572.84	143.00	148.19	146.70	148.28	0.000707	2.98	245.66	103.19	0.23
US Route 1-DS05	10220	500-Year	778.28	143.00	148.45	147.13	148.59	0.000969	3.60	272.71	105.21	0.27
US Route 1-DS05	10207.5 Footbridge	Bridge										
US Route 1-DS05	10195	2-Year	135.99	143.00	147.21	144.17	147.25	0.000209	1.41	91.82	118.57	0.12
US Route 1-DS05	10195	10-Year	277.18	143.00	147.69	144.88	147.73	0.000303	1.82	194.16	121.21	0.15
US Route 1-DS05	10195	25-Year	384.12	143.00	147.89	145.44	147.94	0.000417	2.20	217.78	122.29	0.18
US Route 1-DS05	10195	50-Year	483.66	143.00	148.04	145.79	148.11	0.000515	2.49	236.73	123.23	0.20
US Route 1-DS05	10195	100-Year	572.84	143.00	148.16	146.02	148.25	0.000598	2.73	252.12	124.21	0.21
US Route 1-DS05	10195	500-Year	778.28	143.00	148.42	147.36	148.54	0.000767	3.19	283.77	126.20	0.24
US Route 1-DS05	10155	2-Year	135.99	144.40	146.50	146.50	147.07	0.011608	6.55	23.93	60.70	0.87
US Route 1-DS05	10155	10-Year	277.18	144.40	147.32	147.32	147.62	0.005463	5.82	99.84	127.63	0.64
US Route 1-DS05	10155	25-Year	384.12	144.40	147.50	147.50	147.82	0.005970	6.36	122.62	128.91	0.68
US Route 1-DS05	10155	50-Year	483.66	144.40	147.62	147.62	147.98	0.006615	6.89	138.13	129.77	0.72
US Route 1-DS05	10155	100-Year	572.84	144.40	147.71	147.71	148.10	0.007149	7.31	150.17	130.44	0.75
US Route 1-DS05	10155	500-Year	778.28	144.40	147.90	147.90	148.37	0.008139	8.12	174.54	131.78	0.81
US Route 1-DS05	10115	2-Year	135.99	141.50	145.45	143.67	145.67	0.002739	3.95	40.00	25.05	0.35
US Route 1-DS05	10115	10-Year	277.18	141.50	146.37	145.46	146.66	0.003219	4.92	71.97	43.94	0.39
US Route 1-DS05	10115	25-Year	384.12	141.50	146.74	146.13	147.08	0.003666	5.52	89.44	50.30	0.42
US Route 1-DS05	10115	50-Year	483.66	141.50	147.03	146.45	147.43	0.004262	6.16	107.15	153.47	0.46
US Route 1-DS05	10115	100-Year	572.84	141.50	147.57	146.71	147.74	0.001882	4.36	192.24	160.25	0.31
US Route 1-DS05	10115	500-Year	778.28	141.50	147.60	147.00	147.90	0.003242	5.74	197.49	160.66	0.41
US Route 1-DS05	10102.5 Footbridge	Bridge										
US Route 1-DS05	10090	2-Year	135.99	141.50	143.67	143.67	144.75	0.025355	8.36	16.27	7.50	1.00
US Route 1-DS05	10090	10-Year	277.18	141.50	145.42	145.16	145.71	0.004707	5.15	75.98	60.56	0.46
US Route 1-DS05	10090	25-Year	384.12	141.50	145.86	145.41	146.14	0.003925	5.05	104.68	84.87	0.43
US Route 1-DS05	10090	50-Year	483.66	141.50	146.14	145.62	146.44	0.003949	5.28	124.52	102.75	0.43
US Route 1-DS05	10090	100-Year	572.84	141.50	146.33	145.78	146.67	0.004159	5.56	139.02	135.20	0.45
US Route 1-DS05	10090	500-Year	778.28	141.50	146.66	146.11	147.10	0.004844	6.28	166.42	153.69	0.49
US Route 1-DS05	10040	2-Year	135.99	140.60	142.58	142.58	143.23	0.012813	6.74	27.49	27.69	0.91
US Route 1-DS05	10040	10-Year	277.18	140.60	145.45	143.55	145.54	0.000716	3.09	258.17	143.21	0.26
US Route 1-DS05	10040	25-Year	384.12	140.60	145.88	143.95	145.98	0.000812	3.50	322.62	157.73	0.28
US Route 1-DS05	10040	50-Year	483.66	140.60	146.16	144.00	146.27	0.000926	3.87	367.50	163.79	0.30
US Route 1-DS05	10040	100-Year	572.84	140.60	146.35	144.75	146.48	0.001040	4.20	399.33	166.07	0.32
US Route 1-DS05	10040	500-Year	778.28	140.60	146.69	145.31	146.86	0.001321	4.93	456.99	170.11	0.36
US Route 1-DS05	9990	2-Year	135.99	138.87	142.62	140.97	142.76	0.001302	3.07	47.81	23.55	0.32
US Route 1-DS05	9990	10-Year	277.18	138.87	145.45	141.90	145.50	0.000273	2.20	230.40	139.78	0.16
US Route 1-DS05	9990	25-Year	384.12	138.87	145.88	142.50	145.94	0.000314	2.48	289.05	155.90	0.18
US Route 1-DS05	9990	50-Year	483.66	138.87	146.15	143.05	146.22	0.000355	2.71	344.10	161.84	0.19
US Route 1-DS05	9990	100-Year	572.84	138.87	146.35	143.44	146.43	0.000395	2.92	375.47	163.43	0.20
US Route 1-DS05	9990	500-Year	778.28	138.87	146.69	144.00	146.79	0.000496	3.38	432.13	166.26	0.22
US Route 1-DS05	9950 Leslie Ln	Culvert										
US Route 1-DS05	9910	2-Year	135.99	139.00	140.94	140.94	141.67	0.013366	7.03	22.03	17.24	0.93
US Route 1-DS05	9910	10-Year	277.18	139.00	141.88	141.88	142.90	0.011205	8.55	40.98	23.22	0.92
US Route 1-DS05	9910	25-Year	384.12	139.00	142.41	142.41	143.60	0.010679	9.41	54.14	26.49	0.92
US Route 1-DS05	9910	50-Year	483.66	139.00	142.88	142.88	144.17	0.009913	9.93	67.66	31.11	0.91
US Route 1-DS05	9910	100-Year	572.84	139.00	143.00	143.00	144.66	0.012233	11.27	71.46	32.33	1.02
US Route 1-DS05	9910	500-Year	778.28	139.00	144.27	144.27	145.46	0.006696	10.09	148.96	87.03	0.79
US Route 1-DS05	9850 FEMA "E"	2-Year	139.27	138.37	140.30		140.71	0.010189	5.15	27.05	19.84	0.78
US Route 1-DS05	9850 FEMA "E"	10-Year	283.54	138.37	140.84	140.84	141.68	0.013555	7.38	42.70	38.58	0.95
US Route 1-DS05	9850 FEMA "E"	25-Year	391.55	138.37	141.31	141.31	142.24	0.011655	7.92	63.74	51.58	0.91
US Route 1-DS05	9850 FEMA "E"	50-Year	494.02	138.37	141.69	141.69	142.67	0.010490	8.30	84.96	59.26	0.88
US Route 1-DS05	9850 FEMA "E"	100-Year	586.97	138.37	141.97	141.97	143.02	0.010087	8.69	102.28	63.46	0.88
US Route 1-DS05	9850 FEMA "E"	500-Year	799.85	138.37	142.50	142.50	143.72	0.009891	9.58	137.96	71.34	0.90
US Route 1-DS05	9630	2-Year	161.05	137.80	139.70		139.78	0.002096	2.77	166.88	259.32	0.37
US Route 1-DS05	9630	10-Year	338.47	137.80	140.26		140.34	0.001928	3.21	314.10	266.81	0.38
US Route 1-DS05	9630	25-Year	462.63	137.80	140.57		140.65	0.001891	3.46	397.16	271.87	0.38

Deadman Brook Existing Conditions

HEC-RAS Plan: Existing (Continued)

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
US Route 1-DS05	9630	50-Year	584.63	137.80	140.88		140.96	0.001735	3.58	483.11	277.01	0.37
US Route 1-DS05	9630	100-Year	695.26	137.80	141.15		141.24	0.001605	3.66	559.40	280.61	0.36
US Route 1-DS05	9630	500-Year	966.08	137.80	141.69		141.78	0.001516	3.95	712.39	286.38	0.36
US Route 1-DS05	9430	2-Year	161.05	137.00	138.88	138.37	139.15	0.004764	4.18	45.71	242.13	0.56
US Route 1-DS05	9430	10-Year	338.47	137.00	139.64		139.84	0.003083	4.29	219.08	264.17	0.48
US Route 1-DS05	9430	25-Year	462.63	137.00	140.09		140.23	0.002212	4.06	336.76	269.15	0.42
US Route 1-DS05	9430	50-Year	584.63	137.00	140.49		140.61	0.001743	3.92	446.20	275.57	0.38
US Route 1-DS05	9430	100-Year	695.26	137.00	140.81		140.92	0.001525	3.90	534.96	280.67	0.36
US Route 1-DS05	9430	500-Year	966.08	137.00	141.37		141.48	0.001425	4.15	695.19	286.97	0.36
US Route 1-DS05	9230	2-Year	161.05	136.40	138.71	138.17	138.75	0.000818	1.91	144.69	166.49	0.24
US Route 1-DS05	9230	10-Year	338.47	136.40	139.57	138.50	139.61	0.000428	1.75	303.44	197.46	0.18
US Route 1-DS05	9230	25-Year	462.63	136.40	140.00	138.65	140.05	0.000382	1.82	390.31	206.33	0.18
US Route 1-DS05	9230	50-Year	584.63	136.40	140.40	138.79	140.46	0.000340	1.86	485.78	242.82	0.17
US Route 1-DS05	9230	100-Year	695.26	136.40	140.73	138.90	140.78	0.000310	1.87	566.21	252.72	0.17
US Route 1-DS05	9230	500-Year	966.08	136.40	141.29	139.22	141.36	0.000307	2.04	712.99	270.20	0.17
US Route 1-DS05	9180	2-Year	161.05	134.30	138.62	136.70	138.70	0.000779	2.52	84.50	89.35	0.21
US Route 1-DS05	9180	10-Year	338.47	134.30	139.50	137.93	139.57	0.000775	2.85	182.37	150.82	0.22
US Route 1-DS05	9180	25-Year	462.63	134.30	139.96	138.40	140.02	0.000621	2.70	259.40	186.56	0.20
US Route 1-DS05	9180	50-Year	584.63	134.30	140.38	139.03	140.43	0.000484	2.50	344.01	214.55	0.18
US Route 1-DS05	9180	100-Year	695.26	134.30	140.71	139.21	140.76	0.000394	2.33	418.82	237.37	0.16
US Route 1-DS05	9180	500-Year	966.08	134.30	141.28	139.52	141.33	0.000328	2.25	562.26	261.39	0.15
US Route 1-DS05	9167.5 Footbridge	Bridge										
US Route 1-DS05	9155	2-Year	161.05	134.30	138.57	136.71	138.64	0.000764	2.48	87.09	76.44	0.21
US Route 1-DS05	9155	10-Year	338.47	134.30	139.46	137.98	139.54	0.000818	2.91	174.38	125.02	0.23
US Route 1-DS05	9155	25-Year	462.63	134.30	139.92	138.34	139.99	0.000695	2.84	237.03	146.92	0.21
US Route 1-DS05	9155	50-Year	584.63	134.30	140.34	138.91	140.41	0.000590	2.75	302.46	164.50	0.20
US Route 1-DS05	9155	100-Year	695.26	134.30	140.67	139.17	140.74	0.000532	2.70	358.91	179.24	0.19
US Route 1-DS05	9155	500-Year	966.08	134.30	141.23	139.48	141.31	0.000467	2.68	465.59	196.56	0.18
US Route 1-DS04	9110	2-Year	204.67	136.00	138.19		138.49	0.005292	4.81	49.67	41.43	0.61
US Route 1-DS04	9110	10-Year	421.77	136.00	138.83		139.32	0.006253	6.32	79.95	52.35	0.69
US Route 1-DS04	9110	25-Year	565.93	136.00	139.15	138.91	139.75	0.006773	7.10	97.59	59.56	0.73
US Route 1-DS04	9110	50-Year	722.59	136.00	139.46	139.24	140.15	0.007090	7.77	117.23	68.51	0.76
US Route 1-DS04	9110	100-Year	868.47	136.00	139.72	139.54	140.47	0.007035	8.16	136.76	76.38	0.77
US Route 1-DS04	9110	500-Year	1220.38	136.00	140.52	139.95	141.10	0.004598	7.56	233.47	162.62	0.64
US Route 1-DS04	9060	2-Year	204.67	132.93	138.07	137.28	138.23	0.003542	4.05	69.69	67.81	0.31
US Route 1-DS04	9060	10-Year	421.77	132.93	138.80	138.22	138.97	0.003167	4.18	127.52	92.03	0.30
US Route 1-DS04	9060	25-Year	565.93	132.93	139.18	138.45	139.36	0.002638	3.98	165.29	102.38	0.28
US Route 1-DS04	9060	50-Year	722.59	132.93	139.54	138.68	139.73	0.002303	3.86	202.71	107.49	0.26
US Route 1-DS04	9060	100-Year	868.47	132.93	139.84	138.88	140.05	0.002099	3.79	235.45	111.77	0.25
US Route 1-DS04	9060	500-Year	1220.38	132.93	140.57	139.24	140.80	0.001709	3.66	325.82	136.19	0.23
US Route 1-DS04	9042.5 Driveway Bridge	Bridge										
US Route 1-DS04	9025	2-Year	204.67	132.93	137.13	137.13	137.51	0.009523	5.51	44.81	56.57	0.47
US Route 1-DS04	9025	10-Year	421.77	132.93	137.88	137.60	138.31	0.004613	4.28	93.14	70.16	0.34
US Route 1-DS04	9025	25-Year	565.93	132.93	138.37	137.88	138.81	0.003165	3.78	129.77	78.54	0.29
US Route 1-DS04	9025	50-Year	722.59	132.93	138.83	138.18	139.28	0.002496	3.54	168.34	88.76	0.26
US Route 1-DS04	9025	100-Year	868.47	132.93	139.18	138.41	139.66	0.002179	3.44	200.27	92.79	0.24
US Route 1-DS04	9025	500-Year	1220.38	132.93	139.97	138.98	140.49	0.001658	3.25	275.23	98.60	0.22
US Route 1-DS04	8975	2-Year	204.67	134.20	136.27	136.27	136.85	0.011283	6.59	47.27	48.62	0.87
US Route 1-DS04	8975	10-Year	421.77	134.20	137.01	137.01	137.84	0.011450	8.38	86.71	57.67	0.93
US Route 1-DS04	8975	25-Year	565.93	134.20	137.40	137.40	138.37	0.011566	9.26	110.30	63.88	0.96
US Route 1-DS04	8975	50-Year	722.59	134.20	137.80	137.80	138.86	0.011150	9.91	137.15	70.30	0.96
US Route 1-DS04	8975	100-Year	868.47	134.20	138.15	138.15	139.26	0.010518	10.30	162.97	74.69	0.95
US Route 1-DS04	8975	500-Year	1220.38	134.20	138.75	138.75	140.08	0.010871	11.58	209.21	79.07	0.99
US Route 1-DS04	8835	2-Year	204.67	131.20	133.24		133.59	0.007071	5.19	46.23	42.88	0.69
US Route 1-DS04	8835	10-Year	421.77	131.20	134.37		134.66	0.003309	4.94	105.41	64.28	0.51
US Route 1-DS04	8835	25-Year	565.93	131.20	134.67		135.03	0.003880	5.71	126.74	85.88	0.56
US Route 1-DS04	8835	50-Year	722.59	131.20	134.91		135.38	0.004738	6.63	149.77	102.13	0.63
US Route 1-DS04	8835	100-Year	868.47	131.20	135.08		135.61	0.005219	7.17	166.65	105.97	0.67
US Route 1-DS04	8835	500-Year	1220.38	131.20	135.52		136.12	0.005084	7.66	215.88	112.89	0.67
US Route 1-DS04	8695	2-Year	204.67	130.60	132.98	132.23	133.08	0.001687	2.68	93.20	95.30	0.34
US Route 1-DS04	8695	10-Year	421.77	130.60	134.40	132.79	134.44	0.000476	2.06	271.25	145.58	0.20
US Route 1-DS04	8695	25-Year	565.93	130.60	134.72	133.13	134.77	0.000551	2.36	319.24	154.43	0.22
US Route 1-DS04	8695	50-Year	722.59	130.60	134.99	133.35	135.06	0.000635	2.65	362.98	162.07	0.24
US Route 1-DS04	8695	100-Year	868.47	130.60	135.16	133.51	135.25	0.000743	2.95	390.44	167.65	0.26
US Route 1-DS04	8695	500-Year	1220.38	130.60	135.60	133.85	135.72	0.000878	3.44	467.69	182.54	0.28
US Route 1-DS04	8645	2-Year	204.67	129.40	132.80	131.52	132.97	0.001589	3.64	81.48	97.18	0.36
US Route 1-DS04	8645	10-Year	421.77	129.40	134.35	132.59	134.41	0.000511	2.69	320.47	186.20	0.22
US Route 1-DS04	8645	25-Year	565.93	129.40	134.67	133.02	134.74	0.000584	3.00	382.46	201.56	0.24
US Route 1-DS04	8645	50-Year	722.59	129.40	134.95	133.41	135.03	0.000659	3.30	440.57	216.65	0.25
US Route 1-DS04	8645	100-Year	868.47	129.40	135.12	133.65	135.21	0.000771	3.65	476.99	223.21	0.27

Deadman Brook Existing Conditions

HEC-RAS Plan: Existing (Continued)

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
US Route 1-DS04	8645	500-Year	1220.38	129.40	135.56	134.11	135.67	0.000899	4.15	579.06	238.12	0.30
US Route 1-DS04	8600 Roseville Rd	Culvert										
US Route 1-DS04	8555	2-Year	204.67	127.00	130.09	130.09	130.88	0.009490	8.01	44.11	82.65	0.85
US Route 1-DS04	8555	10-Year	421.77	127.00	131.00	131.00	131.35	0.004889	6.94	161.04	91.27	0.64
US Route 1-DS04	8555	25-Year	565.93	127.00	131.01	131.01	131.64	0.008702	9.27	161.72	91.34	0.85
US Route 1-DS04	8555	50-Year	722.59	127.00	131.22	131.22	131.99	0.010392	10.51	181.16	93.32	0.94
US Route 1-DS04	8555	100-Year	868.47	127.00	131.45	131.45	132.29	0.010933	11.21	202.93	95.48	0.97
US Route 1-DS04	8555	500-Year	1220.38	127.00	131.93	131.93	132.91	0.011880	12.57	249.81	99.98	1.03
US Route 1-DS04	8550	2-Year	204.67	123.60	128.34	128.34	129.01	0.005463	7.73	62.89	52.23	0.66
US Route 1-DS04	8550	10-Year	421.77	123.60	129.39	129.39	130.10	0.005867	9.28	141.18	93.37	0.71
US Route 1-DS04	8550	25-Year	565.93	123.60	129.75	129.75	130.53	0.006563	10.25	176.37	100.21	0.76
US Route 1-DS04	8550	50-Year	722.59	123.60	130.14	130.14	130.91	0.006653	10.78	216.00	105.68	0.77
US Route 1-DS04	8550	100-Year	868.47	123.60	130.35	130.35	131.20	0.007421	11.65	238.57	106.97	0.82
US Route 1-DS04	8550	500-Year	1220.38	123.60	130.81	130.81	131.80	0.008747	13.26	288.62	109.76	0.90
US Route 1-DS04	8410	2-Year	204.67	121.60	123.60	123.60	124.30	0.013052	7.03	38.43	34.29	0.93
US Route 1-DS04	8410	10-Year	421.77	121.60	124.51	124.51	125.48	0.011399	8.66	75.03	45.10	0.93
US Route 1-DS04	8410	25-Year	565.93	121.60	124.98	124.98	126.09	0.010962	9.45	97.21	49.71	0.94
US Route 1-DS04	8410	50-Year	722.59	121.60	125.42	125.42	126.66	0.010664	10.17	119.98	53.66	0.95
US Route 1-DS04	8410	100-Year	868.47	121.60	125.74	125.74	127.14	0.010991	10.93	137.61	56.51	0.97
US Route 1-DS04	8410	500-Year	1220.38	121.60	126.83	126.83	128.02	0.007437	10.59	209.79	77.73	0.83
US Route 1-DS04	8260	2-Year	204.67	98.20	99.16	99.16	99.57	0.019447	5.13	39.98	50.81	1.01
US Route 1-DS04	8260	10-Year	421.77	98.20	100.05		100.43	0.006769	4.97	89.34	59.57	0.67
US Route 1-DS04	8260	25-Year	565.93	98.20	100.86		101.16	0.003260	4.47	139.40	65.01	0.50
US Route 1-DS04	8260	50-Year	722.59	98.20	101.46		101.77	0.002541	4.55	179.78	69.24	0.45
US Route 1-DS04	8260	100-Year	868.47	98.20	101.94		102.27	0.002238	4.70	213.78	72.66	0.44
US Route 1-DS04	8260	500-Year	1220.38	98.20	102.92		103.30	0.001918	5.11	288.67	80.72	0.42
US Route 1-DS03	8210	2-Year	209.87	95.00	97.65	97.65	98.49	0.012409	7.83	38.05	27.26	0.94
US Route 1-DS03	8210	10-Year	432.74	95.00	98.75	98.75	99.94	0.011049	9.71	72.37	35.06	0.95
US Route 1-DS03	8210	25-Year	579.99	95.00	99.12	99.12	100.74	0.013328	11.46	85.93	39.50	1.06
US Route 1-DS03	8210	50-Year	741.89	95.00	100.16	100.16	101.47	0.008176	10.62	139.32	60.83	0.86
US Route 1-DS03	8210	100-Year	893.64	95.00	100.55	100.55	101.97	0.008309	11.29	163.76	64.20	0.88
US Route 1-DS03	8210	500-Year	1260.36	95.00	101.38	101.38	103.00	0.008414	12.57	219.63	70.80	0.91
US Route 1-DS03	8130	2-Year	209.87	93.80	96.12	96.12	96.88	0.011995	7.27	39.44	33.20	0.91
US Route 1-DS03	8130	10-Year	432.74	93.80	97.06	97.06	98.20	0.011769	9.31	73.74	40.96	0.96
US Route 1-DS03	8130	25-Year	579.99	93.80	97.63	97.63	98.90	0.010760	10.02	99.24	48.72	0.95
US Route 1-DS03	8130	50-Year	741.89	93.80	98.19	98.19	99.55	0.009808	10.57	128.66	55.91	0.93
US Route 1-DS03	8130	100-Year	893.64	93.80	98.60	98.60	100.07	0.009614	11.17	152.79	60.56	0.93
US Route 1-DS03	8130	500-Year	1260.36	93.80	99.46	99.46	101.15	0.009291	12.35	209.10	69.94	0.94
US Route 1-DS03	8080	2-Year	209.87	90.70	95.60	93.58	95.72	0.001421	3.29	112.46	49.76	0.26
US Route 1-DS03	8080	10-Year	432.74	90.70	96.80	94.85	97.00	0.002091	4.62	179.09	62.51	0.33
US Route 1-DS03	8080	25-Year	579.99	90.70	97.39	95.40	97.62	0.002302	5.16	219.19	75.24	0.35
US Route 1-DS03	8080	50-Year	741.89	90.70	97.64	95.83	97.96	0.003029	6.07	238.93	81.90	0.41
US Route 1-DS03	8080	100-Year	893.64	90.70	97.81	96.12	98.21	0.003774	6.88	253.40	86.46	0.45
US Route 1-DS03	8080	500-Year	1260.36	90.70	98.30	97.17	98.82	0.004732	8.06	297.96	93.90	0.51
US Route 1-DS03	8065 Stone Footbridge	Bridge										
US Route 1-DS03	8050	2-Year	209.87	90.70	95.00	93.87	95.36	0.004462	5.33	66.63	42.62	0.45
US Route 1-DS03	8050	10-Year	432.74	90.70	95.59	95.42	96.44	0.009797	8.61	94.07	50.13	0.69
US Route 1-DS03	8050	25-Year	579.99	90.70	95.95	95.95	97.05	0.012108	10.04	113.01	54.69	0.77
US Route 1-DS03	8050	50-Year	741.89	90.70	96.82	96.82	97.51	0.007394	8.69	175.48	89.93	0.62
US Route 1-DS03	8050	100-Year	893.64	90.70	97.39	97.07	97.83	0.004855	7.47	230.91	101.32	0.51
US Route 1-DS03	8050	500-Year	1260.36	90.70	97.99	97.47	98.44	0.004502	7.62	293.58	106.07	0.50
US Route 1-DS03	8030	2-Year	209.87	92.20	94.95		95.24	0.003343	4.47	63.05	42.01	0.50
US Route 1-DS03	8030	10-Year	432.74	92.20	95.46	94.99	96.22	0.007151	7.40	89.39	62.72	0.75
US Route 1-DS03	8030	25-Year	579.99	92.20	95.71	95.71	96.78	0.009417	8.94	105.82	73.17	0.87
US Route 1-DS03	8030	50-Year	741.89	92.20	96.35	96.35	97.24	0.006793	8.57	161.22	94.82	0.77
US Route 1-DS03	8030	100-Year	893.64	92.20	96.66	96.66	97.57	0.006685	8.94	191.45	101.39	0.77
US Route 1-DS03	8030	500-Year	1260.36	92.20	97.27	97.27	98.19	0.006289	9.50	257.20	110.95	0.76
US Route 1-DS03	8010	2-Year	209.87	90.10	94.79	93.22	95.14	0.005059	5.25	63.97	47.48	0.43
US Route 1-DS03	8010	10-Year	432.74	90.10	95.54	95.35	95.88	0.005434	6.01	116.84	110.89	0.45
US Route 1-DS03	8010	25-Year	579.99	90.10	95.68	95.68	96.13	0.007174	7.02	132.26	113.25	0.52
US Route 1-DS03	8010	50-Year	741.89	90.10	95.88	95.86	96.36	0.007554	7.38	155.03	114.86	0.54
US Route 1-DS03	8010	100-Year	893.64	90.10	96.17	96.00	96.59	0.006079	6.83	188.29	117.04	0.49
US Route 1-DS03	8010	500-Year	1260.36	90.10	96.62	96.28	97.08	0.005370	6.74	242.32	120.54	0.47
US Route 1-DS03	8000 Footbridge	Bridge										
US Route 1-DS03	7990	2-Year	209.87	89.60	94.24	94.24	94.74	0.011826	6.50	41.23	40.98	0.53
US Route 1-DS03	7990	10-Year	432.74	89.60	94.85	94.85	95.50	0.014594	7.84	71.96	67.32	0.60
US Route 1-DS03	7990	25-Year	579.99	89.60	95.24	95.24	95.76	0.011038	7.15	107.06	97.89	0.53
US Route 1-DS03	7990	50-Year	741.89	89.60	95.42	95.42	96.01	0.011615	7.49	125.21	100.91	0.55
US Route 1-DS03	7990	100-Year	893.64	89.60	95.57	95.57	96.24	0.012173	7.80	140.15	103.32	0.56

Deadman Brook Existing Conditions

HEC-RAS Plan: Existing (Continued)

Reach	River Sta		Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
US Route 1-DS03	7990		500-Year	1260.36	89.60	95.93	95.93	96.72	0.011873	8.01	178.66	109.30	0.56
US Route 1-DS03	7980		2-Year	209.87	87.70	93.98	92.08	94.16	0.003890	4.03	63.76	48.33	0.28
US Route 1-DS03	7980		10-Year	432.74	87.70	94.77	94.09	95.01	0.004404	4.64	118.21	96.94	0.31
US Route 1-DS03	7980		25-Year	579.99	87.70	95.11	94.49	95.35	0.003860	4.48	152.17	101.97	0.29
US Route 1-DS03	7980		50-Year	741.89	87.70	95.36	94.88	95.64	0.003959	4.64	177.86	104.46	0.30
US Route 1-DS03	7980		100-Year	893.64	87.70	95.57	95.03	95.89	0.004019	4.76	200.08	106.56	0.30
US Route 1-DS03	7980		500-Year	1260.36	87.70	96.02	95.36	96.42	0.004146	5.01	248.60	111.71	0.31
US Route 1-DS03	7960	Driveway Bridge		Bridge									
US Route 1-DS03	7940		2-Year	209.87	87.70	90.09	90.09	91.29	0.022604	8.79	23.88	10.00	1.00
US Route 1-DS03	7940		10-Year	432.74	87.70	92.56	92.56	92.89	0.004553	5.51	116.36	143.89	0.44
US Route 1-DS03	7940		25-Year	579.99	87.70	92.72	92.72	93.09	0.005257	6.06	140.08	149.03	0.48
US Route 1-DS03	7940		50-Year	741.89	87.70	92.86	92.86	93.29	0.005946	6.56	161.54	152.31	0.51
US Route 1-DS03	7940		100-Year	893.64	87.70	92.98	92.98	93.46	0.006429	6.93	179.93	154.50	0.53
US Route 1-DS03	7940		500-Year	1260.36	87.70	93.23	93.23	93.82	0.007423	7.67	218.81	160.53	0.58
US Route 1-DS03	7900	FEMA "D"	2-Year	209.87	86.20	89.39	89.39	90.34	0.010334	8.16	34.58	36.92	0.87
US Route 1-DS03	7900	FEMA "D"	10-Year	432.74	86.20	90.65	90.65	92.02	0.009982	10.32	66.53	47.41	0.91
US Route 1-DS03	7900	FEMA "D"	25-Year	579.99	86.20	91.36	91.36	92.05	0.004642	7.81	162.12	124.28	0.64
US Route 1-DS03	7900	FEMA "D"	50-Year	741.89	86.20	91.70	91.70	92.39	0.004712	8.25	205.43	131.72	0.65
US Route 1-DS03	7900	FEMA "D"	100-Year	893.64	86.20	91.93	91.93	92.65	0.004969	8.73	236.50	136.81	0.67
US Route 1-DS03	7900	FEMA "D"	500-Year	1260.36	86.20	92.37	92.37	93.18	0.005615	9.80	299.75	149.69	0.73
US Route 1-DS02	7790		2-Year	237.68	85.00	87.38	87.35	88.06	0.010492	7.01	50.47	46.04	0.86
US Route 1-DS02	7790		10-Year	487.24	85.00	88.28	88.28	89.21	0.010093	8.74	100.13	62.14	0.89
US Route 1-DS02	7790		25-Year	653.84	85.00	88.73	88.73	89.79	0.010100	9.60	128.91	66.78	0.91
US Route 1-DS02	7790		50-Year	822.00	85.00	89.05	89.05	90.31	0.010941	10.61	151.23	70.69	0.97
US Route 1-DS02	7790		100-Year	997.68	85.00	89.47	89.47	90.81	0.010546	11.17	182.20	78.90	0.96
US Route 1-DS02	7790		500-Year	1454.01	85.00	89.94	89.94	91.97	0.014371	14.01	221.66	88.28	1.15
US Route 1-DS02	7680		2-Year	237.68	84.60	86.13	86.13	86.64	0.015242	5.78	42.55	44.41	0.95
US Route 1-DS02	7680		10-Year	487.24	84.60	88.18		88.28	0.000988	2.90	213.77	134.16	0.29
US Route 1-DS02	7680		25-Year	653.84	84.60	88.60		88.71	0.000907	3.01	271.33	138.34	0.28
US Route 1-DS02	7680		50-Year	822.00	84.60	88.94		89.05	0.000900	3.19	318.32	141.65	0.28
US Route 1-DS02	7680		100-Year	997.68	84.60	89.21		89.35	0.000941	3.41	358.73	150.93	0.29
US Route 1-DS02	7680		500-Year	1454.01	84.60	89.80		89.97	0.001054	3.93	454.18	174.75	0.32
US Route 1-DS02	7640		2-Year	237.68	83.00	85.63		85.79	0.002479	3.56	80.75	63.63	0.42
US Route 1-DS02	7640		10-Year	487.24	83.00	88.20		88.24	0.000270	1.97	314.03	120.81	0.16
US Route 1-DS02	7640		25-Year	653.84	83.00	88.61		88.67	0.000335	2.31	367.89	140.20	0.18
US Route 1-DS02	7640		50-Year	822.00	83.00	88.94		89.01	0.000393	2.61	417.17	157.42	0.20
US Route 1-DS02	7640		100-Year	997.68	83.00	89.22		89.30	0.000451	2.89	469.75	200.18	0.21
US Route 1-DS02	7640		500-Year	1454.01	83.00	89.81		89.92	0.000524	3.33	590.32	207.00	0.23
US Route 1-DS02	7610		2-Year	237.68	82.20	85.63		85.73	0.001226	3.05	102.64	69.87	0.31
US Route 1-DS02	7610		10-Year	487.24	82.20	88.20		88.23	0.000175	1.74	368.55	128.94	0.13
US Route 1-DS02	7610		25-Year	653.84	82.20	88.61		88.65	0.000220	2.05	424.52	140.87	0.15
US Route 1-DS02	7610		50-Year	822.00	82.20	88.95		89.00	0.000265	2.33	472.92	150.42	0.16
US Route 1-DS02	7610		100-Year	997.68	82.20	89.22		89.29	0.000367	2.83	529.43	222.47	0.19
US Route 1-DS02	7610		500-Year	1454.01	82.20	89.81		89.90	0.000414	3.18	664.07	229.87	0.21
US Route 1-DS02	7550		2-Year	237.68	81.60	85.56	83.47	85.65	0.000706	2.63	131.59	105.40	0.25
US Route 1-DS02	7550		10-Year	487.24	81.60	88.13	84.35	88.21	0.000319	2.54	410.63	193.09	0.18
US Route 1-DS02	7550		25-Year	653.84	81.60	88.52	84.83	88.62	0.000439	3.10	464.49	210.71	0.21
US Route 1-DS02	7550		50-Year	822.00	81.60	88.89	85.01	88.97	0.000383	3.00	708.46	227.68	0.20
US Route 1-DS02	7550		100-Year	997.68	81.60	89.15	85.82	89.25	0.000469	3.41	771.80	260.01	0.22
US Route 1-DS02	7550		500-Year	1454.01	81.60	89.71	86.89	89.85	0.000643	4.20	929.27	301.21	0.27
US Route 1-DS02	7505		2-Year	237.68	80.03	85.53	82.80	85.63	0.000531	2.70	122.09	73.79	0.22
US Route 1-DS02	7505		10-Year	487.24	80.03	88.12	83.95	88.19	0.000274	2.60	383.60	140.44	0.17
US Route 1-DS02	7505		25-Year	653.84	80.03	88.50	84.65	88.60	0.000385	3.19	428.44	157.03	0.20
US Route 1-DS02	7505		50-Year	822.00	80.03	88.82	85.28	88.94	0.000478	3.65	521.02	170.85	0.23
US Route 1-DS02	7505		100-Year	997.68	80.03	89.06	85.71	89.21	0.000595	4.16	563.59	182.93	0.26
US Route 1-DS02	7505		500-Year	1454.01	80.03	89.56	86.83	89.79	0.000894	5.30	664.59	218.49	0.32
US Route 1-DS02	7472.5	Deerwood Ln		Bridge									
US Route 1-DS02	7440		2-Year	237.68	80.52	84.98	83.30	85.16	0.001598	3.54	72.57	32.91	0.35
US Route 1-DS02	7440		10-Year	487.24	80.52	85.70	84.54	86.12	0.003177	5.63	103.40	51.55	0.50
US Route 1-DS02	7440		25-Year	653.84	80.52	85.90	85.11	86.53	0.004604	7.00	113.79	56.80	0.61
US Route 1-DS02	7440		50-Year	822.00	80.52	86.01	85.77	86.91	0.006397	8.41	120.43	59.87	0.73
US Route 1-DS02	7440		100-Year	997.68	80.52	86.25	86.25	87.31	0.007163	9.23	135.23	64.97	0.77
US Route 1-DS02	7440		500-Year	1454.01	80.52	86.98	86.98	88.14	0.006819	9.98	189.11	80.88	0.78
US Route 1-DS02	7420		2-Year	237.68	80.25	84.92	83.03	85.12	0.002654	4.08	78.00	67.62	0.33
US Route 1-DS02	7420		10-Year	487.24	80.25	85.76	85.12	85.96	0.002569	4.48	151.36	105.69	0.34
US Route 1-DS02	7420		25-Year	653.84	80.25	86.03	85.43	86.27	0.003009	5.00	180.66	117.16	0.37
US Route 1-DS02	7420		50-Year	822.00	80.25	86.24	85.67	86.52	0.003338	5.40	206.58	123.44	0.39
US Route 1-DS02	7420		100-Year	997.68	80.25	86.46	85.90	86.77	0.003524	5.68	233.99	129.74	0.40
US Route 1-DS02	7420		500-Year	1454.01	80.25	86.93	86.32	87.32	0.003894	6.27	297.92	143.38	0.43

Deadman Brook Existing Conditions

HEC-RAS Plan: Existing (Continued)

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
US Route 1-DS02	7407.5	Footbridge	Bridge									
US Route 1-DS02	7395	2-Year	237.68	80.25	83.03	83.03	84.43	0.024367	9.51	25.00	9.00	1.00
US Route 1-DS02	7395	10-Year	487.24	80.25	85.26	85.26	85.74	0.006453	6.67	105.89	99.29	0.52
US Route 1-DS02	7395	25-Year	653.84	80.25	85.48	85.48	86.03	0.007321	7.31	129.00	106.76	0.56
US Route 1-DS02	7395	50-Year	822.00	80.25	85.69	85.69	86.27	0.007732	7.71	151.88	113.68	0.58
US Route 1-DS02	7395	100-Year	997.68	80.25	85.87	85.87	86.51	0.008277	8.15	172.34	119.88	0.61
US Route 1-DS02	7395	500-Year	1454.01	80.25	86.26	86.26	87.02	0.008912	8.84	221.60	129.85	0.64
US Route 1-DS02	7345	2-Year	237.68	79.40	82.31	82.31	83.10	0.010465	7.82	35.56	22.96	0.87
US Route 1-DS02	7345	10-Year	487.24	79.40	83.39	83.39	84.43	0.009340	9.41	65.82	35.73	0.88
US Route 1-DS02	7345	25-Year	653.84	79.40	83.95	83.95	85.02	0.008471	9.87	88.89	46.82	0.86
US Route 1-DS02	7345	50-Year	822.00	79.40	84.67	84.67	85.52	0.006238	9.42	135.75	86.01	0.75
US Route 1-DS02	7345	100-Year	997.68	79.40	85.06	85.06	85.83	0.005529	9.34	173.63	107.29	0.72
US Route 1-DS02	7345	500-Year	1454.01	79.40	85.55	85.55	86.43	0.005971	10.31	231.61	126.88	0.76
US Route 1-DS02	7240	2-Year	237.68	77.80	79.49	79.49	80.08	0.016372	6.21	40.66	39.24	0.99
US Route 1-DS02	7240	10-Year	487.24	77.80	80.23	80.23	81.12	0.013461	7.72	73.01	47.37	0.97
US Route 1-DS02	7240	25-Year	653.84	77.80	80.62	80.62	81.68	0.012710	8.48	92.45	50.47	0.97
US Route 1-DS02	7240	50-Year	822.00	77.80	80.98	80.98	82.20	0.012335	9.16	110.64	53.21	0.98
US Route 1-DS02	7240	100-Year	997.68	77.80	81.33	81.33	82.69	0.011812	9.73	130.33	57.77	0.98
US Route 1-DS02	7240	500-Year	1454.01	77.80	82.13	82.13	83.82	0.011032	10.97	180.64	69.48	0.98
US Route 1-DS02	7125	2-Year	237.68	75.20	76.70	76.66	77.27	0.014633	6.03	40.47	35.48	0.94
US Route 1-DS02	7125	10-Year	487.24	75.20	77.41	77.41	78.35	0.013738	7.84	68.14	42.84	0.98
US Route 1-DS02	7125	25-Year	653.84	75.20	77.84	77.84	78.95	0.012689	8.57	87.31	47.51	0.97
US Route 1-DS02	7125	50-Year	822.00	75.20	78.22	78.22	79.48	0.011935	9.18	106.52	51.65	0.97
US Route 1-DS02	7125	100-Year	997.68	75.20	78.85	78.59	80.02	0.008626	8.93	140.99	58.49	0.85
US Route 1-DS02	7125	500-Year	1454.01	75.20	79.44	79.44	81.17	0.010438	10.93	178.62	69.34	0.96
US Route 1-DS02	6920	2-Year	237.68	71.60	73.61	73.61	74.40	0.013963	7.25	37.49	30.09	0.96
US Route 1-DS02	6920	10-Year	487.24	71.60	74.64	74.64	75.76	0.011234	8.84	76.27	45.57	0.93
US Route 1-DS02	6920	25-Year	653.84	71.60	75.21	75.21	76.46	0.010032	9.47	105.04	54.05	0.91
US Route 1-DS02	6920	50-Year	822.00	71.60	75.60	75.60	77.06	0.010532	10.42	126.48	58.97	0.95
US Route 1-DS02	6920	100-Year	997.68	71.60	75.65	75.65	77.73	0.014730	12.44	129.62	60.13	1.12
US Route 1-DS02	6920	500-Year	1454.01	71.60	77.23	77.23	78.63	0.007171	10.95	288.52	112.18	0.83
US Route 1-DS02	6720	2-Year	237.68	68.00	70.43	70.00	70.87	0.006299	5.49	57.18	40.88	0.67
US Route 1-DS02	6720	10-Year	487.24	68.00	71.54		72.15	0.005427	6.76	111.31	54.69	0.66
US Route 1-DS02	6720	25-Year	653.84	68.00	72.14		72.80	0.004963	7.25	145.58	59.71	0.65
US Route 1-DS02	6720	50-Year	822.00	68.00	72.76		73.43	0.004250	7.42	184.36	64.67	0.62
US Route 1-DS02	6720	100-Year	997.68	68.00	73.03		73.85	0.004926	8.31	201.95	66.77	0.68
US Route 1-DS02	6720	500-Year	1454.01	68.00	74.02		74.98	0.004723	9.24	271.90	73.81	0.68
US Route 1-DS02	6520	2-Year	237.68	66.00	68.19	68.19	69.08	0.013994	7.65	35.11	24.27	0.98
US Route 1-DS02	6520	10-Year	487.24	66.00	69.34	69.34	70.62	0.011258	9.39	69.50	37.54	0.95
US Route 1-DS02	6520	25-Year	653.84	66.00	69.98	69.98	71.40	0.010013	10.06	97.02	48.08	0.92
US Route 1-DS02	6520	50-Year	822.00	66.00	70.41	70.41	72.10	0.010498	11.08	119.42	57.73	0.96
US Route 1-DS02	6520	100-Year	997.68	66.00	71.27	71.27	72.66	0.007123	10.37	183.32	82.29	0.82
US Route 1-DS02	6520	500-Year	1454.01	66.00	72.15	72.15	73.78	0.007400	11.76	258.16	89.51	0.86
US Route 1-DS02	6320	2-Year	237.68	58.00	61.61		61.75	0.001073	3.10	98.74	47.56	0.30
US Route 1-DS02	6320	10-Year	487.24	58.00	62.86		63.10	0.001330	4.25	169.74	72.39	0.35
US Route 1-DS02	6320	25-Year	653.84	58.00	63.48		63.76	0.001400	4.74	216.71	77.89	0.37
US Route 1-DS02	6320	50-Year	822.00	58.00	64.02		64.34	0.001448	5.15	259.88	81.54	0.38
US Route 1-DS02	6320	100-Year	997.68	58.00	64.49		64.86	0.001534	5.59	299.21	86.17	0.39
US Route 1-DS02	6320	500-Year	1454.01	58.00	65.45		65.94	0.001772	6.61	386.76	96.38	0.43
US Route 1-DS02	6270	2-Year	237.68	52.83	61.47	56.95	61.65	0.002476	3.88	99.03	41.60	0.23
US Route 1-DS02	6270	10-Year	487.24	52.83	62.65	60.74	62.96	0.004093	5.44	155.18	53.64	0.31
US Route 1-DS02	6270	25-Year	653.84	52.83	63.25	61.56	63.62	0.004723	6.07	188.80	59.54	0.33
US Route 1-DS02	6270	50-Year	822.00	52.83	63.78	62.11	64.19	0.005075	6.51	221.97	64.66	0.35
US Route 1-DS02	6270	100-Year	997.68	52.83	64.25	62.57	64.70	0.005425	6.92	253.15	69.39	0.36
US Route 1-DS02	6270	500-Year	1454.01	52.83	65.21	63.54	65.77	0.006121	7.76	324.72	79.25	0.39
US Route 1-DS02	6257.5	Footbridge	Bridge									
US Route 1-DS02	6245	2-Year	237.68	52.83	61.39	56.95	61.54	0.002156	3.60	105.34	41.68	0.22
US Route 1-DS02	6245	10-Year	487.24	52.83	62.52	60.69	62.77	0.003618	5.07	157.24	51.11	0.29
US Route 1-DS02	6245	25-Year	653.84	52.83	63.10	61.31	63.39	0.004211	5.68	188.34	56.89	0.31
US Route 1-DS02	6245	50-Year	822.00	52.83	63.63	61.77	63.95	0.004540	6.10	220.00	62.82	0.33
US Route 1-DS02	6245	100-Year	997.68	52.83	64.09	62.18	64.45	0.004804	6.45	250.43	67.81	0.34
US Route 1-DS02	6245	500-Year	1454.01	52.83	65.06	63.07	65.51	0.005226	7.11	320.35	76.15	0.36
US Route 1-DS02	6195	2-Year	237.68	58.20	60.48	60.48	61.16	0.011949	6.96	41.86	34.47	0.90
US Route 1-DS02	6195	10-Year	487.24	58.20	61.38	61.38	62.28	0.010232	8.37	77.90	44.85	0.89
US Route 1-DS02	6195	25-Year	653.84	58.20	61.81	61.81	62.86	0.010014	9.13	98.10	48.55	0.90
US Route 1-DS02	6195	50-Year	822.00	58.20	62.18	62.18	63.37	0.010087	9.86	116.74	52.60	0.92
US Route 1-DS02	6195	100-Year	997.68	58.20	62.57	62.57	63.85	0.009685	10.36	138.07	57.31	0.92
US Route 1-DS02	6195	500-Year	1454.01	58.20	63.42	63.42	64.87	0.008927	11.32	190.85	66.62	0.91
US Route 1-DS02	6090	2-Year	237.68	53.20	55.80	55.80	56.57	0.010988	7.51	39.12	28.00	0.89
US Route 1-DS02	6090	10-Year	487.24	53.20	57.29		57.98	0.005521	7.49	87.94	37.64	0.68

Deadman Brook Existing Conditions

HEC-RAS Plan: Existing (Continued)

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
US Route 1-DS02	6090	25-Year	653.84	53.20	57.78		58.64	0.005973	8.46	107.81	42.24	0.73
US Route 1-DS02	6090	50-Year	822.00	53.20	58.22		59.22	0.006253	9.24	127.07	46.40	0.75
US Route 1-DS02	6090	100-Year	997.68	53.20	58.75		59.80	0.005782	9.55	153.11	51.68	0.74
US Route 1-DS02	6090	500-Year	1454.01	53.20	59.71	59.71	60.64	0.004650	9.59	234.38	100.61	0.68
US Route 1-DS02	6040	2-Year	237.68	48.67	54.55	52.61	55.44	0.014244	7.59	31.31	5.33	0.55
US Route 1-DS02	6040	10-Year	487.24	48.67	57.20	56.18	57.58	0.004409	5.23	108.06	42.42	0.32
US Route 1-DS02	6040	25-Year	653.84	48.67	57.71	56.61	58.18	0.004752	5.65	130.97	46.51	0.33
US Route 1-DS02	6040	50-Year	822.00	48.67	58.17	57.00	58.72	0.004909	5.93	153.78	60.76	0.34
US Route 1-DS02	6040	100-Year	997.68	48.67	58.82	57.35	59.28	0.003578	5.29	208.91	109.77	0.29
US Route 1-DS02	6040	500-Year	1454.01	48.67	59.60	58.90	59.99	0.002617	4.75	306.58	129.36	0.25
US Route 1-DS02	6027.5 Stone Footbridge		Bridge									
US Route 1-DS02	6015	2-Year	237.68	48.67	52.62	52.62	54.60	0.037995	11.28	21.07	5.33	1.00
US Route 1-DS02	6015	10-Year	487.24	48.67	56.24	56.24	57.14	0.013497	8.45	73.39	38.81	0.54
US Route 1-DS02	6015	25-Year	653.84	48.67	56.71	56.71	57.69	0.014045	8.97	92.86	44.31	0.56
US Route 1-DS02	6015	50-Year	822.00	48.67	57.08	57.08	58.16	0.014543	9.41	110.00	48.45	0.57
US Route 1-DS02	6015	100-Year	997.68	48.67	57.40	57.40	58.61	0.014804	9.73	126.30	51.52	0.58
US Route 1-DS02	6015	500-Year	1454.01	48.67	58.65	58.65	59.57	0.008022	7.84	215.65	116.97	0.44
US Route 1-DS02	5965	2-Year	237.68	48.00	50.54	50.54	51.50	0.012747	8.07	36.01	23.27	0.95
US Route 1-DS02	5965	10-Year	487.24	48.00	51.77	51.77	53.13	0.010772	9.94	69.28	30.33	0.94
US Route 1-DS02	5965	25-Year	653.84	48.00	52.39	52.39	54.00	0.010523	10.96	89.14	34.12	0.96
US Route 1-DS02	5965	50-Year	822.00	48.00	52.99	52.99	54.76	0.009931	11.67	110.84	38.24	0.95
US Route 1-DS02	5965	100-Year	997.68	48.00	53.54	53.54	55.48	0.009609	12.36	132.96	42.54	0.95
US Route 1-DS02	5965	500-Year	1454.01	48.00	54.79	54.79	57.03	0.008795	13.65	192.30	52.07	0.95
US Route 1-DS02	5805	2-Year	237.68	44.20	46.34	46.34	46.83	0.010335	6.14	50.10	55.17	0.83
US Route 1-DS02	5805	10-Year	487.24	44.20	47.03	47.03	47.58	0.008304	6.90	96.04	78.30	0.78
US Route 1-DS02	5805	25-Year	653.84	44.20	47.29	47.29	47.92	0.008421	7.45	117.30	82.23	0.80
US Route 1-DS02	5805	50-Year	822.00	44.20	47.52	47.52	48.21	0.008442	7.88	136.75	85.66	0.82
US Route 1-DS02	5805	100-Year	997.68	44.20	47.73	47.73	48.49	0.008500	8.29	155.13	88.79	0.83
US Route 1-DS02	5805	500-Year	1454.01	44.20	48.19	48.19	49.13	0.008734	9.21	197.62	97.06	0.86
US Route 1-DS02	5720	2-Year	237.68	42.60	44.73	44.73	44.94	0.006415	4.42	111.73	249.44	0.64
US Route 1-DS02	5720	10-Year	487.24	42.60	45.00	45.00	45.30	0.008714	5.77	181.20	253.08	0.77
US Route 1-DS02	5720	25-Year	653.84	42.60	45.13	45.13	45.48	0.010320	6.57	212.33	254.48	0.84
US Route 1-DS02	5720	50-Year	822.00	42.60	45.26	45.26	45.64	0.010838	7.04	246.27	256.00	0.87
US Route 1-DS02	5720	100-Year	997.68	42.60	45.37	45.37	45.80	0.011635	7.57	275.35	257.29	0.91
US Route 1-DS02	5720	500-Year	1454.01	42.60	45.62	45.62	46.16	0.013301	8.72	340.54	260.16	0.99
US Route 1-DS02	5635 FEMA "C"	2-Year	237.68	38.69	41.86	41.86	42.45	0.009320	6.83	42.45	79.53	0.73
US Route 1-DS02	5635 FEMA "C"	10-Year	487.24	38.69	42.59	42.59	43.41	0.010228	8.14	70.64	172.51	0.79
US Route 1-DS02	5635 FEMA "C"	25-Year	653.84	38.69	43.58	43.33	43.83	0.002949	5.21	225.58	227.32	0.44
US Route 1-DS02	5635 FEMA "C"	50-Year	822.00	38.69	44.12	43.51	44.27	0.001646	4.21	351.30	237.44	0.34
US Route 1-DS02	5635 FEMA "C"	100-Year	997.68	38.69	44.23	43.66	44.41	0.002033	4.75	376.99	239.93	0.38
US Route 1-DS02	5635 FEMA "C"	500-Year	1454.01	38.69	44.59	43.97	44.82	0.002487	5.51	466.15	248.38	0.42
US Route 1-DS02	5610	2-Year	237.68	37.20	39.37	39.37	40.13	0.012330	7.30	37.14	26.28	0.92
US Route 1-DS02	5610	10-Year	487.24	37.20	41.84	40.40	42.13	0.001830	4.86	124.56	47.12	0.41
US Route 1-DS02	5610	25-Year	653.84	37.20	43.66	40.92	43.71	0.000353	2.68	465.06	224.44	0.19
US Route 1-DS02	5610	50-Year	822.00	37.20	44.15	41.42	44.20	0.000307	2.63	578.54	232.75	0.18
US Route 1-DS02	5610	100-Year	997.68	37.20	44.27	41.78	44.33	0.000399	3.04	605.12	235.28	0.20
US Route 1-DS02	5610	500-Year	1454.01	37.20	44.63	43.08	44.73	0.000582	3.80	692.75	243.45	0.25
US Route 1-DS02	5570 Compo Rd North		Bridge									
US Route 1-DS02	5530	2-Year	237.68	34.64	38.49	36.86	38.68	0.001903	3.52	68.82	59.44	0.36
US Route 1-DS02	5530	10-Year	487.24	34.64	38.80	37.94	39.46	0.005814	6.53	76.57	67.70	0.63
US Route 1-DS02	5530	25-Year	653.84	34.64	38.97	38.49	40.04	0.008866	8.33	81.35	74.85	0.79
US Route 1-DS02	5530	50-Year	822.00	34.64	39.02	39.02	40.66	0.013251	10.30	83.14	76.92	0.96
US Route 1-DS02	5530	100-Year	997.68	34.64	39.54	39.54	41.32	0.012112	10.79	100.53	90.72	0.94
US Route 1-DS02	5530	500-Year	1454.01	34.64	40.63	40.63	42.77	0.010942	12.01	139.24	141.91	0.93
US Route 1-DS02	5480	2-Year	282.55	35.00	37.87	37.87	38.40	0.007918	6.76	63.48	127.15	0.76
US Route 1-DS02	5480	10-Year	602.14	35.00	38.56	38.56	39.07	0.006594	7.28	152.29	146.65	0.73
US Route 1-DS02	5480	25-Year	816.19	35.00	38.78	38.78	39.40	0.007538	8.15	185.40	149.92	0.79
US Route 1-DS02	5480	50-Year	1018.97	35.00	39.01	39.01	39.67	0.007634	8.57	219.56	153.20	0.80
US Route 1-DS02	5480	100-Year	1227.27	35.00	39.18	39.17	39.93	0.008163	9.15	246.46	155.22	0.83
US Route 1-DS02	5480	500-Year	1774.64	35.00	39.71	39.63	40.52	0.007677	9.69	329.60	161.28	0.83
US Route 1-DS02	5325	2-Year	282.55	34.20	36.92		37.18	0.003922	4.62	143.17	174.48	0.54
US Route 1-DS02	5325	10-Year	602.14	34.20	37.65		37.96	0.004247	5.76	278.00	200.85	0.58
US Route 1-DS02	5325	25-Year	816.19	34.20	37.96		38.31	0.004643	6.43	342.37	213.78	0.62
US Route 1-DS02	5325	50-Year	1018.97	34.20	38.21		38.60	0.004895	6.93	397.04	219.85	0.64
US Route 1-DS02	5325	100-Year	1227.27	34.20	38.44		38.86	0.005105	7.38	447.68	224.44	0.67
US Route 1-DS02	5325	500-Year	1774.64	34.20	38.90		39.41	0.005816	8.50	554.16	233.80	0.72
US Route 1-DS02	5170	2-Year	282.55	32.40	36.04	35.78	36.46	0.005205	6.47	103.34	115.14	0.64
US Route 1-DS02	5170	10-Year	602.14	32.40	36.63		37.12	0.006628	8.18	174.76	126.16	0.74
US Route 1-DS02	5170	25-Year	816.19	32.40	36.90		37.42	0.006974	8.77	208.80	131.22	0.77
US Route 1-DS02	5170	50-Year	1018.97	32.40	37.12		37.67	0.007154	9.20	237.74	137.07	0.78

Deadman Brook Existing Conditions

HEC-RAS Plan: Existing (Continued)

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
US Route 1-DS02	5170	100-Year	1227.27	32.40	37.32		37.90	0.007246	9.55	265.98	143.88	0.80
US Route 1-DS02	5170	500-Year	1774.64	32.40	37.83		38.44	0.006574	9.78	345.00	161.41	0.77
US Route 1-DS02	5120	2-Year	282.55	30.50	36.00	33.51	36.18	0.002136	3.92	135.75	124.36	0.29
US Route 1-DS02	5120	10-Year	602.14	30.50	36.49	36.28	36.77	0.003698	5.46	202.04	140.68	0.39
US Route 1-DS02	5120	25-Year	816.19	30.50	36.72	36.47	37.04	0.004423	6.12	234.55	146.31	0.43
US Route 1-DS02	5120	50-Year	1018.97	30.50	36.92	36.68	37.28	0.004828	6.53	264.13	151.25	0.45
US Route 1-DS02	5120	100-Year	1227.27	30.50	37.11	36.81	37.50	0.005050	6.82	293.81	156.29	0.47
US Route 1-DS02	5120	500-Year	1774.64	30.50	37.66	37.18	38.07	0.004526	6.80	383.28	169.41	0.45
US Route 1-DS02	5102.5	Driveway Bridge	Bridge									
US Route 1-DS02	5085	2-Year	282.55	30.50	35.73	33.51	35.84	0.001480	3.16	125.15	129.22	0.24
US Route 1-DS02	5085	10-Year	602.14	30.50	36.23		36.39	0.001933	3.83	197.26	156.00	0.28
US Route 1-DS02	5085	25-Year	816.19	30.50	36.43		36.63	0.002318	4.29	228.14	161.79	0.31
US Route 1-DS02	5085	50-Year	1018.97	30.50	36.62		36.86	0.002431	4.49	260.13	168.50	0.32
US Route 1-DS02	5085	100-Year	1227.27	30.50	36.82		37.09	0.002435	4.59	293.86	175.85	0.32
US Route 1-DS02	5085	500-Year	1774.64	30.50	37.25		37.60	0.002472	4.84	373.76	190.71	0.33
US Route 1-DS02	5055	2-Year	282.55	30.50	34.84	33.51	35.57	0.008740	6.85	41.24	9.50	0.58
US Route 1-DS02	5055	10-Year	602.14	30.50	36.16	35.79	36.33	0.002290	4.14	200.75	169.72	0.31
US Route 1-DS02	5055	25-Year	816.19	30.50	36.36	36.03	36.56	0.002664	4.56	233.98	173.23	0.33
US Route 1-DS02	5055	50-Year	1018.97	30.50	36.55	36.12	36.79	0.002724	4.72	268.26	176.78	0.34
US Route 1-DS02	5055	100-Year	1227.27	30.50	36.75	36.24	37.01	0.002673	4.78	303.85	180.39	0.34
US Route 1-DS02	5055	500-Year	1774.64	30.50	37.19	36.53	37.52	0.002654	4.98	384.53	188.75	0.34
US Route 1-DS02	5040	Footbridge	Bridge									
US Route 1-DS02	5025	2-Year	282.55	30.50	33.78	33.51	35.06	0.018871	9.07	31.15	9.50	0.88
US Route 1-DS02	5025	10-Year	602.14	30.50	35.81		36.15	0.004996	5.86	152.36	165.94	0.45
US Route 1-DS02	5025	25-Year	816.19	30.50	36.14		36.41	0.003834	5.34	210.97	186.47	0.40
US Route 1-DS02	5025	50-Year	1018.97	30.50	36.37		36.64	0.003377	5.15	254.69	190.41	0.37
US Route 1-DS02	5025	100-Year	1227.27	30.50	36.58		36.86	0.003114	5.06	294.21	193.90	0.36
US Route 1-DS02	5025	500-Year	1774.64	30.50	36.99		37.34	0.002986	5.17	375.07	200.86	0.36
US Route 1-DS02	4990	2-Year	282.55	30.00	34.21		34.37	0.001330	3.79	182.90	123.32	0.34
US Route 1-DS02	4990	10-Year	602.14	30.00	35.85		35.97	0.000878	3.89	441.37	205.04	0.29
US Route 1-DS02	4990	25-Year	816.19	30.00	36.12		36.28	0.001130	4.56	499.62	217.41	0.33
US Route 1-DS02	4990	50-Year	1018.97	30.00	36.34		36.52	0.001339	5.08	546.50	224.04	0.37
US Route 1-DS02	4990	100-Year	1227.27	30.00	36.54		36.74	0.001499	5.50	591.49	226.87	0.39
US Route 1-DS02	4990	500-Year	1774.64	30.00	36.94		37.20	0.001895	6.45	684.54	229.99	0.44
US Route 1-DS02	4950	2-Year	282.55	30.00	33.57	32.44	34.15	0.006737	6.08	46.46	13.00	0.57
US Route 1-DS02	4950	10-Year	602.14	30.00	35.84	35.00	35.91	0.000916	3.03	383.83	251.66	0.22
US Route 1-DS02	4950	25-Year	816.19	30.00	36.12	35.28	36.20	0.000994	3.25	451.85	286.29	0.23
US Route 1-DS02	4950	50-Year	1018.97	30.00	36.33	35.45	36.43	0.001052	3.42	504.78	306.59	0.24
US Route 1-DS02	4950	100-Year	1227.27	30.00	36.53	35.60	36.64	0.001098	3.57	554.00	318.38	0.25
US Route 1-DS02	4950	500-Year	1774.64	30.00	36.93	35.90	37.09	0.001275	4.00	654.15	342.19	0.27
US Route 1-DS02	4931.77	Driveway Bridge	Bridge									
US Route 1-DS02	4915	2-Year	282.55	30.00	32.85		33.75	0.012953	7.62	37.06	13.00	0.80
US Route 1-DS02	4915	10-Year	602.14	30.00	35.20	35.20	35.68	0.004911	6.49	234.23	245.96	0.50
US Route 1-DS02	4915	25-Year	816.19	30.00	35.46	35.46	35.97	0.005579	7.15	299.44	256.45	0.54
US Route 1-DS02	4915	50-Year	1018.97	30.00	35.65	35.65	36.19	0.006269	7.74	346.97	273.79	0.57
US Route 1-DS02	4915	100-Year	1227.27	30.00	35.81	35.81	36.38	0.006823	8.24	391.70	291.31	0.60
US Route 1-DS02	4915	500-Year	1774.64	30.00	36.42		36.85	0.005600	7.97	559.83	350.77	0.55
US Route 1-DS02	4910	2-Year	282.55	30.00	33.06	31.92	33.44	0.004292	4.92	59.66	33.41	0.50
US Route 1-DS02	4910	10-Year	602.14	30.00	34.50	33.46	34.92	0.003574	5.81	227.72	230.97	0.48
US Route 1-DS02	4910	25-Year	816.19	30.00	34.67	34.67	35.25	0.004927	7.00	269.53	236.91	0.57
US Route 1-DS02	4910	50-Year	1018.97	30.00	34.91	34.91	35.51	0.005306	7.50	325.65	244.46	0.60
US Route 1-DS02	4910	100-Year	1227.27	30.00	35.38	35.13	35.79	0.003742	6.70	445.30	256.38	0.51
US Route 1-DS02	4910	500-Year	1774.64	30.00	36.50	35.51	36.72	0.001987	5.53	746.04	355.81	0.38
US Route 1-DS02	4895	Footbridge	Bridge									
US Route 1-DS02	4880	2-Year	282.55	30.00	32.74	31.95	32.95	0.003211	4.19	126.47	100.91	0.45
US Route 1-DS02	4880	10-Year	602.14	30.00	33.78	32.96	34.01	0.002845	4.89	248.65	134.07	0.44
US Route 1-DS02	4880	25-Year	816.19	30.00	34.37	33.35	34.59	0.002328	4.87	329.00	204.95	0.41
US Route 1-DS02	4880	50-Year	1018.97	30.00	34.87	33.64	35.08	0.002023	4.88	405.97	229.55	0.39
US Route 1-DS02	4880	100-Year	1227.27	30.00	35.36	33.91	35.53	0.001560	4.57	520.23	240.56	0.35
US Route 1-DS02	4880	500-Year	1774.64	30.00	36.48	34.36	36.60	0.000869	3.87	804.72	354.84	0.27
US Route 1-DS02	4830	2-Year	282.55	29.00	32.74	31.30	32.81	0.000747	2.61	279.21	171.96	0.25
US Route 1-DS02	4830	10-Year	602.14	29.00	33.76	32.24	33.87	0.000959	3.52	462.93	186.64	0.30
US Route 1-DS02	4830	25-Year	816.19	29.00	34.34	32.53	34.46	0.001027	3.95	574.37	202.68	0.31
US Route 1-DS02	4830	50-Year	1018.97	29.00	34.84	32.79	34.97	0.001070	4.30	679.26	221.86	0.32
US Route 1-DS02	4830	100-Year	1227.27	29.00	35.31	33.05	35.45	0.001054	4.50	787.82	239.39	0.33
US Route 1-DS02	4830	500-Year	1774.64	29.00	36.42	33.57	36.56	0.000889	4.64	1075.42	271.56	0.31
US Route 1-DS02	4760	2-Year	282.55	30.40	32.33	32.06	32.67	0.007694	4.80	63.23	51.41	0.70
US Route 1-DS02	4760	10-Year	602.14	30.40	32.76	32.76	33.63	0.013857	7.67	86.48	54.91	0.98

Deadman Brook Existing Conditions

HEC-RAS Plan: Existing (Continued)

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
US Route 1-DS02	4760	25-Year	816.19	30.40	33.16	33.16	34.21	0.013102	8.45	108.79	58.07	0.98
US Route 1-DS02	4760	50-Year	1018.97	30.40	33.50	33.50	34.70	0.012568	9.08	129.04	60.79	0.98
US Route 1-DS02	4760	100-Year	1227.27	30.40	33.84	33.84	35.17	0.011986	9.60	149.89	63.48	0.98
US Route 1-DS02	4760	500-Year	1774.64	30.40	34.59	34.59	36.26	0.011310	10.84	199.46	67.24	0.99
US Route 1-DS02	4555	2-Year	282.55	29.00	29.89	29.89	30.21	0.021293	4.56	61.92	97.77	1.01
US Route 1-DS02	4555	10-Year	602.14	29.00	31.85		31.93	0.000774	2.23	311.11	163.21	0.24
US Route 1-DS02	4555	25-Year	816.19	29.00	32.75		32.82	0.000488	2.16	471.19	192.61	0.20
US Route 1-DS02	4555	50-Year	1018.97	29.00	32.94		33.03	0.000631	2.54	507.05	198.49	0.23
US Route 1-DS02	4555	100-Year	1227.27	29.00	33.11		33.23	0.000773	2.89	542.04	203.03	0.26
US Route 1-DS02	4555	500-Year	1774.64	29.00	33.54		33.73	0.001092	3.69	632.57	227.87	0.31
US Route 1-DS02	4355	2-Year	282.55	25.80	29.39	27.68	29.45	0.000646	2.38	232.48	109.52	0.23
US Route 1-DS02	4355	10-Year	602.14	25.80	31.78	28.47	31.83	0.000284	2.27	580.06	198.63	0.17
US Route 1-DS02	4355	25-Year	816.19	25.80	32.71	28.86	32.75	0.000218	2.20	783.39	232.53	0.15
US Route 1-DS02	4355	50-Year	1018.97	25.80	32.88	29.21	32.93	0.000293	2.59	823.28	236.30	0.18
US Route 1-DS02	4355	100-Year	1227.27	25.80	33.04	29.48	33.11	0.000371	2.96	861.71	239.70	0.20
US Route 1-DS02	4355	500-Year	1774.64	25.80	33.44	30.08	33.55	0.000560	3.78	958.93	246.74	0.25
US Route 1-DS02	4305	2-Year	282.55	24.90	28.14	27.40	28.86	0.009263	6.81	42.17	19.55	0.67
US Route 1-DS02	4305	10-Year	602.14	24.90	31.25	29.32	31.59	0.002418	5.40	211.21	119.10	0.38
US Route 1-DS02	4305	25-Year	816.19	24.90	32.54	30.08	32.64	0.000860	3.64	544.51	426.85	0.23
US Route 1-DS02	4305	50-Year	1018.97	24.90	32.67	30.95	32.79	0.001068	4.11	602.73	441.18	0.26
US Route 1-DS02	4305	100-Year	1227.27	24.90	32.80	31.51	32.94	0.001239	4.48	662.82	455.49	0.28
US Route 1-DS02	4305	500-Year	1774.64	24.90	33.19	32.51	33.34	0.001396	4.91	850.26	502.18	0.30
US Route 1-DS02	4280	Evergreen Ave	Bridge									
US Route 1-DS02	4255	2-Year	282.55	22.67	27.90	25.29	28.15	0.002468	4.15	71.49	20.76	0.32
US Route 1-DS02	4255	10-Year	602.14	22.67	29.04	27.03	29.66	0.004746	6.58	97.08	35.69	0.46
US Route 1-DS02	4255	25-Year	816.19	22.67	29.50	28.00	30.42	0.006278	7.94	108.06	45.54	0.54
US Route 1-DS02	4255	50-Year	1018.97	22.67	29.73	28.95	31.02	0.008417	9.40	113.37	50.30	0.63
US Route 1-DS02	4255	100-Year	1227.27	22.67	30.56	29.93	31.31	0.005267	8.01	196.63	161.09	0.51
US Route 1-DS02	4255	500-Year	1774.64	22.67	31.56	31.02	32.10	0.003441	7.02	315.27	215.54	0.42
US Route 1-DS02	4200	2-Year	282.55	25.00	27.09	27.09	27.85	0.013599	7.15	41.30	27.91	0.95
US Route 1-DS02	4200	10-Year	602.14	25.00	28.13	28.13	29.25	0.011168	8.84	73.69	34.22	0.93
US Route 1-DS02	4200	25-Year	816.19	25.00	28.71	28.71	29.98	0.010082	9.52	94.75	38.61	0.91
US Route 1-DS02	4200	50-Year	1018.97	25.00	29.20	29.20	30.56	0.009206	9.95	114.44	41.52	0.89
US Route 1-DS02	4200	100-Year	1227.27	25.00	30.57	29.58	31.03	0.002665	6.55	275.30	222.39	0.50
US Route 1-DS02	4200	500-Year	1774.64	25.00	31.69	30.86	31.90	0.001147	4.89	541.88	247.45	0.34
US Route 1-DS02	4030	2-Year	282.55	24.00	26.77		26.82	0.000705	2.02	170.98	115.86	0.23
US Route 1-DS02	4030	10-Year	602.14	24.00	28.14		28.19	0.000398	2.05	348.90	145.72	0.19
US Route 1-DS02	4030	25-Year	816.19	24.00	28.71		28.77	0.000386	2.21	432.85	149.51	0.19
US Route 1-DS02	4030	50-Year	1018.97	24.00	29.15		29.22	0.000393	2.38	499.61	153.01	0.19
US Route 1-DS02	4030	100-Year	1227.27	24.00	30.79		30.83	0.000165	1.88	765.04	172.32	0.13
US Route 1-DS02	4030	500-Year	1774.64	24.00	31.73		31.80	0.000194	2.23	933.38	184.78	0.14
US Route 1-DS01	3870	2-Year	275.89	22.80	26.71	25.00	26.74	0.000298	1.68	191.33	92.99	0.16
US Route 1-DS01	3870	10-Year	595.97	22.80	28.09	25.63	28.14	0.000239	1.88	349.64	124.08	0.15
US Route 1-DS01	3870	25-Year	811.58	22.80	28.66	25.94	28.72	0.000252	2.07	420.63	126.42	0.16
US Route 1-DS01	3870	50-Year	1009.94	22.80	29.10	26.18	29.17	0.000266	2.24	476.76	129.25	0.16
US Route 1-DS01	3870	100-Year	1214.04	22.80	30.76	26.40	30.81	0.000119	1.77	714.77	169.70	0.11
US Route 1-DS01	3870	500-Year	1767.02	22.80	31.70	27.03	31.77	0.000148	2.13	887.07	192.46	0.13
US Route 1-DS01	3815	2-Year	275.89	21.00	26.65	25.50	26.72	0.000889	2.53	141.35	77.03	0.19
US Route 1-DS01	3815	10-Year	595.97	21.00	28.02	26.17	28.11	0.000786	2.75	268.63	114.91	0.18
US Route 1-DS01	3815	25-Year	811.58	21.00	28.58	26.46	28.69	0.000845	3.00	334.49	121.62	0.19
US Route 1-DS01	3815	50-Year	1009.94	21.00	29.01	26.70	29.14	0.000900	3.21	387.97	126.81	0.20
US Route 1-DS01	3815	100-Year	1214.04	21.00	30.72	26.93	30.79	0.000397	2.43	624.84	153.96	0.14
US Route 1-DS01	3815	500-Year	1767.02	21.00	31.64	27.53	31.74	0.000491	2.87	776.30	178.16	0.15
US Route 1-DS01	3802.5	Footbridge	Bridge									
US Route 1-DS01	3790	2-Year	275.89	21.00	25.38	24.33	26.24	0.011309	7.61	47.40	45.43	0.64
US Route 1-DS01	3790	10-Year	595.97	21.00	26.80	26.80	27.74	0.011236	9.15	139.00	86.62	0.67
US Route 1-DS01	3790	25-Year	811.58	21.00	27.36	27.36	28.32	0.011435	9.82	192.88	102.23	0.69
US Route 1-DS01	3790	50-Year	1009.94	21.00	27.73	27.73	28.75	0.012282	10.56	231.81	111.26	0.72
US Route 1-DS01	3790	100-Year	1214.04	21.00	30.56	28.12	30.73	0.001900	5.25	594.68	148.61	0.30
US Route 1-DS01	3790	500-Year	1767.02	21.00	31.44	28.76	31.67	0.002431	6.30	733.69	166.62	0.34
US Route 1-DS01	3765	2-Year	275.89	20.44	25.59	23.64	25.82	0.002587	4.36	134.35	97.01	0.35
US Route 1-DS01	3765	10-Year	595.97	20.44	26.48	25.80	26.86	0.004228	6.25	226.32	107.89	0.46
US Route 1-DS01	3765	25-Year	811.58	20.44	26.96	26.24	27.40	0.004873	7.07	278.51	113.29	0.50
US Route 1-DS01	3765	50-Year	1009.94	20.44	27.31	26.57	27.81	0.005466	7.77	318.88	117.41	0.54
US Route 1-DS01	3765	100-Year	1214.04	20.44	30.57	26.87	30.67	0.000842	4.00	782.64	165.48	0.23
US Route 1-DS01	3765	500-Year	1767.02	20.44	31.45	27.55	31.59	0.001133	4.91	933.39	177.86	0.26
US Route 1-DS01	3752.5	Footbridge	Bridge									
US Route 1-DS01	3740	2-Year	275.89	20.44	24.55	23.63	25.35	0.009739	7.20	48.22	103.42	0.65
US Route 1-DS01	3740	10-Year	595.97	20.44	25.87		26.40	0.006797	7.34	202.81	131.50	0.57

Deadman Brook Existing Conditions

HEC-RAS Plan: Existing (Continued)

Reach	River Sta		Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
US Route 1-DS01	3740		25-Year	811.58	20.44	26.49		26.94	0.005827	7.34	286.62	138.02	0.54
US Route 1-DS01	3740		50-Year	1009.94	20.44	26.82		27.31	0.006259	7.90	333.32	141.47	0.57
US Route 1-DS01	3740		100-Year	1214.04	20.44	30.54		30.60	0.000593	3.35	924.37	175.51	0.19
US Route 1-DS01	3740		500-Year	1767.02	20.44	31.41		31.50	0.000819	4.16	1079.53	184.04	0.22
US Route 1-DS01	3685	FEMA "B"	2-Year	275.89	21.60	24.61		24.82	0.002240	3.87	112.62	97.87	0.42
US Route 1-DS01	3685	FEMA "B"	10-Year	595.97	21.60	25.78		26.07	0.002238	4.92	233.41	107.22	0.44
US Route 1-DS01	3685	FEMA "B"	25-Year	811.58	21.60	26.34		26.69	0.002363	5.54	294.22	111.82	0.46
US Route 1-DS01	3685	FEMA "B"	50-Year	1009.94	21.60	26.61		27.06	0.002860	6.34	324.85	114.34	0.52
US Route 1-DS01	3685	FEMA "B"	100-Year	1214.04	21.60	30.47		30.57	0.000334	3.23	889.00	163.30	0.19
US Route 1-DS01	3685	FEMA "B"	500-Year	1767.02	21.60	31.30		31.44	0.000478	4.11	1024.76	166.83	0.24
US Route 1-DS01	3465		2-Year	275.89	21.00	24.50		24.55	0.000572	2.19	183.45	105.39	0.22
US Route 1-DS01	3465		10-Year	595.97	21.00	25.71		25.79	0.000547	2.66	324.92	122.53	0.22
US Route 1-DS01	3465		25-Year	811.58	21.00	26.29		26.38	0.000574	2.96	396.58	128.22	0.23
US Route 1-DS01	3465		50-Year	1009.94	21.00	26.56		26.68	0.000700	3.38	431.62	131.45	0.26
US Route 1-DS01	3465		100-Year	1214.04	21.00	30.48		30.52	0.000084	1.70	1028.77	170.78	0.10
US Route 1-DS01	3465		500-Year	1767.02	21.00	31.31		31.37	0.000122	2.17	1173.58	177.95	0.12
US Route 1-DS01	3305		2-Year	275.89	21.00	24.50	21.74	24.51	0.000071	0.75	392.16	148.08	0.07
US Route 1-DS01	3305		10-Year	595.97	21.00	25.72	22.22	25.74	0.000105	1.11	582.83	160.69	0.09
US Route 1-DS01	3305		25-Year	811.58	21.00	26.30	22.56	26.32	0.000124	1.31	676.50	165.10	0.10
US Route 1-DS01	3305		50-Year	1009.94	21.00	26.57	22.75	26.61	0.000159	1.53	722.20	167.82	0.12
US Route 1-DS01	3305		100-Year	1214.04	21.00	30.49	22.93	30.50	0.000030	0.96	1429.66	191.09	0.06
US Route 1-DS01	3305		500-Year	1767.02	21.00	31.32	23.38	31.35	0.000046	1.26	1591.03	195.80	0.07
US Route 1-DS01	3255		2-Year	275.89	21.00	23.49	23.49	24.27	0.012531	7.28	51.86	48.55	0.81
US Route 1-DS01	3255		10-Year	595.97	21.00	24.74	24.74	25.50	0.009323	8.09	131.45	85.55	0.74
US Route 1-DS01	3255		25-Year	811.58	21.00	24.99	24.99	26.01	0.012043	9.60	154.07	93.97	0.85
US Route 1-DS01	3255		50-Year	1009.94	21.00	25.58	25.58	26.36	0.008523	8.85	223.70	127.23	0.73
US Route 1-DS01	3255		100-Year	1214.04	21.00	30.46	25.82	30.49	0.000132	1.79	1042.10	197.35	0.10
US Route 1-DS01	3255		500-Year	1767.02	21.00	31.27	26.35	31.33	0.000179	2.20	1206.54	205.10	0.12
US Route 1-DS01	3250	Dam		Culvert									
US Route 1-DS01	3245		2-Year	275.89	15.50	20.31		20.56	0.002178	4.01	68.83	14.30	0.32
US Route 1-DS01	3245		10-Year	595.97	15.50	21.06		21.93	0.006822	7.50	79.48	14.30	0.56
US Route 1-DS01	3245		25-Year	811.58	15.50	22.03		23.20	0.008169	8.70	93.32	14.30	0.60
US Route 1-DS01	3245		50-Year	1009.94	15.50	23.06		24.41	0.008547	9.35	108.07	14.30	0.60
US Route 1-DS01	3245		100-Year	1214.04	15.50	30.46		30.49	0.000129	1.74	1051.29	200.39	0.08
US Route 1-DS01	3245		500-Year	1767.02	15.50	31.28		31.33	0.000183	2.14	1219.53	208.63	0.10
US Route 1-DS01	3240		2-Year	275.89	15.50	20.31	17.76	20.56	0.002181	4.01	68.80	14.30	0.32
US Route 1-DS01	3240		10-Year	595.97	15.50	21.05	19.27	21.92	0.006853	7.51	79.35	14.30	0.56
US Route 1-DS01	3240		25-Year	811.58	15.50	22.01	20.13	23.19	0.008213	8.71	93.14	14.30	0.60
US Route 1-DS01	3240		50-Year	1009.94	15.50	23.04	20.87	24.40	0.008592	9.36	107.86	14.30	0.60
US Route 1-DS01	3240		100-Year	1214.04	15.50	30.46	21.57	30.49	0.000107	1.58	1047.67	200.89	0.07
US Route 1-DS01	3240		500-Year	1767.02	15.50	31.28	23.28	31.33	0.000149	1.93	1215.90	209.27	0.09
US Route 1-DS01	3227.5	Driveway Bridge		Bridge									
US Route 1-DS01	3215		2-Year	284.35	15.50	20.25		20.52	0.002336	4.18	69.14	20.54	0.34
US Route 1-DS01	3215		10-Year	614.85	15.50	20.79		21.78	0.007471	8.05	81.56	25.06	0.62
US Route 1-DS01	3215		25-Year	837.74	15.50	21.03	20.36	22.69	0.011838	10.43	87.75	26.97	0.78
US Route 1-DS01	3215		50-Year	1042.29	15.50	21.30	21.30	23.58	0.015394	12.27	95.20	28.56	0.90
US Route 1-DS01	3215		100-Year	1254.31	15.50	21.94	21.94	24.44	0.015023	13.00	114.68	32.35	0.90
US Route 1-DS01	3215		500-Year	1834.79	15.50	23.74	23.74	26.34	0.012070	13.74	200.10	94.41	0.84
US Route 1-DS01	3160		2-Year	284.35	17.00	19.62	19.62	20.18	0.011131	7.50	96.07	93.39	0.85
US Route 1-DS01	3160		10-Year	614.85	17.00	20.42	20.42	21.09	0.011632	9.28	184.32	121.39	0.91
US Route 1-DS01	3160		25-Year	837.74	17.00	20.80	20.75	21.54	0.012115	10.20	231.47	129.33	0.95
US Route 1-DS01	3160		50-Year	1042.29	17.00	21.18		21.91	0.011165	10.47	282.13	135.78	0.93
US Route 1-DS01	3160		100-Year	1254.31	17.00	21.55		22.26	0.010314	10.68	333.04	140.26	0.90
US Route 1-DS01	3160		500-Year	1834.79	17.00	22.35		23.11	0.009718	11.60	448.97	150.73	0.90
US Route 1-DS01	3125		2-Year	284.35	16.60	19.29	19.29	19.82	0.007749	6.46	86.65	114.55	0.75
US Route 1-DS01	3125		10-Year	614.85	16.60	20.06	20.06	20.73	0.008483	8.19	180.46	131.60	0.82
US Route 1-DS01	3125		25-Year	837.74	16.60	20.39	20.39	21.18	0.009391	9.22	224.55	135.43	0.88
US Route 1-DS01	3125		50-Year	1042.29	16.60	20.67	20.67	21.54	0.009887	9.97	262.38	138.63	0.92
US Route 1-DS01	3125		100-Year	1254.31	16.60	20.90	20.90	21.88	0.010654	10.78	294.75	141.31	0.96
US Route 1-DS01	3125		500-Year	1834.79	16.60	21.51	21.51	22.71	0.011646	12.41	383.28	150.65	1.03
US Route 1-DS01	3065		2-Year	284.35	13.83	18.66	18.15	18.95	0.004829	4.88	77.27	100.55	0.39
US Route 1-DS01	3065		10-Year	614.85	13.83	19.42	19.26	19.74	0.006225	6.11	161.01	127.15	0.46
US Route 1-DS01	3065		25-Year	837.74	13.83	19.73	19.46	20.08	0.006083	6.26	200.25	132.88	0.45
US Route 1-DS01	3065		50-Year	1042.29	13.83	19.93	19.63	20.34	0.006462	6.60	227.26	136.69	0.47
US Route 1-DS01	3065		100-Year	1254.31	13.83	20.22	19.80	20.64	0.005682	6.38	267.88	141.39	0.45
US Route 1-DS01	3065		500-Year	1834.79	13.83	21.17	20.22	21.55	0.003345	5.37	409.11	155.62	0.35
US Route 1-DS01	3052.5	Footbridge		Bridge									
US Route 1-DS01	3040		2-Year	284.35	13.83	18.27	18.27	18.61	0.008053	5.96	69.40	81.35	0.50
US Route 1-DS01	3040		10-Year	614.85	13.83	18.87		19.30	0.007596	6.30	120.72	87.32	0.49

Deadman Brook Existing Conditions

HEC-RAS Plan: Existing (Continued)

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
US Route 1-DS01	3040	25-Year	837.74	13.83	19.56		19.90	0.003946	4.95	183.19	94.66	0.36
US Route 1-DS01	3040	50-Year	1042.29	13.83	19.61		20.10	0.005674	5.97	187.66	95.17	0.44
US Route 1-DS01	3040	100-Year	1254.31	13.83	19.95		20.47	0.004998	5.82	220.85	98.93	0.41
US Route 1-DS01	3040	500-Year	1834.79	13.83	20.82		21.38	0.003755	5.51	309.23	106.88	0.37
US Route 1-DS01	2990	2-Year	284.35	14.00	17.78	17.66	18.14	0.004308	6.14	76.96	93.89	0.58
US Route 1-DS01	2990	10-Year	614.85	14.00	18.82		19.01	0.002049	5.04	201.74	137.32	0.42
US Route 1-DS01	2990	25-Year	837.74	14.00	19.58		19.70	0.001077	4.05	310.46	148.22	0.31
US Route 1-DS01	2990	50-Year	1042.29	14.00	19.64		19.82	0.001530	4.86	319.34	148.72	0.37
US Route 1-DS01	2990	100-Year	1254.31	14.00	20.00		20.19	0.001355	4.78	374.58	152.39	0.35
US Route 1-DS01	2990	500-Year	1834.79	14.00	20.91		21.11	0.001058	4.66	518.63	164.49	0.32
US Route 1-DS01	2840	2-Year	284.35	14.20	17.41		17.63	0.002489	4.35	100.24	79.91	0.44
US Route 1-DS01	2840	10-Year	614.85	14.20	18.44		18.69	0.002236	5.02	202.49	115.05	0.44
US Route 1-DS01	2840	25-Year	837.74	14.20	19.35		19.53	0.001265	4.32	316.82	134.41	0.34
US Route 1-DS01	2840	50-Year	1042.29	14.20	19.24		19.54	0.002257	5.68	301.29	132.78	0.45
US Route 1-DS01	2840	100-Year	1254.31	14.20	19.63		19.94	0.002067	5.72	354.17	138.27	0.44
US Route 1-DS01	2840	500-Year	1834.79	14.20	20.56		20.90	0.001739	5.86	489.32	148.09	0.42
US Route 1-DS01	2790	2-Year	284.35	11.67	17.33	14.59	17.49	0.001728	3.61	117.73	88.57	0.27
US Route 1-DS01	2790	10-Year	614.85	11.67	18.35	17.36	18.57	0.002075	4.42	219.14	110.00	0.30
US Route 1-DS01	2790	25-Year	837.74	11.67	19.29	17.74	19.46	0.001379	3.93	339.27	142.25	0.25
US Route 1-DS01	2790	50-Year	1042.29	11.67	19.11	18.04	19.42	0.002572	5.29	314.44	137.44	0.34
US Route 1-DS01	2790	100-Year	1254.31	11.67	19.49	18.27	19.82	0.002523	5.41	368.13	146.56	0.34
US Route 1-DS01	2790	500-Year	1834.79	11.67	20.42	18.91	20.79	0.002285	5.55	512.04	158.47	0.33
US Route 1-DS01	2777.5 Footbridge		Bridge									
US Route 1-DS01	2765	2-Year	284.35	11.67	16.51	14.59	17.03	0.005512	5.81	53.56	47.88	0.47
US Route 1-DS01	2765	10-Year	614.85	11.67	17.38	17.38	18.23	0.008874	8.23	112.70	78.23	0.61
US Route 1-DS01	2765	25-Year	837.74	11.67	19.14		19.38	0.002070	4.75	309.88	137.87	0.31
US Route 1-DS01	2765	50-Year	1042.29	11.67	18.55		19.19	0.006049	7.69	233.25	120.03	0.52
US Route 1-DS01	2765	100-Year	1254.31	11.67	18.99		19.61	0.005493	7.64	288.72	135.68	0.50
US Route 1-DS01	2765	500-Year	1834.79	11.67	20.11		20.65	0.003872	7.06	448.19	147.62	0.43
US Route 1-DS01	2715	2-Year	284.35	13.60	16.56		16.69	0.001701	3.24	126.60	93.40	0.36
US Route 1-DS01	2715	10-Year	614.85	13.60	17.51		17.71	0.001788	4.11	222.93	106.54	0.39
US Route 1-DS01	2715	25-Year	837.74	13.60	19.15		19.26	0.000594	3.07	425.45	138.31	0.24
US Route 1-DS01	2715	50-Year	1042.29	13.60	18.61		18.85	0.001532	4.56	351.04	132.16	0.38
US Route 1-DS01	2715	100-Year	1254.31	13.60	19.03		19.30	0.001484	4.77	408.78	137.41	0.38
US Route 1-DS01	2715	500-Year	1834.79	13.60	20.12		20.42	0.001332	5.15	562.15	145.78	0.37
US Route 1-DS01	2595	2-Year	284.35	12.00	16.51		16.57	0.000503	2.44	186.43	99.32	0.21
US Route 1-DS01	2595	10-Year	614.85	12.00	17.44		17.55	0.000715	3.33	284.56	110.38	0.26
US Route 1-DS01	2595	25-Year	837.74	12.00	19.13		19.20	0.000289	2.56	485.14	125.09	0.17
US Route 1-DS01	2595	50-Year	1042.29	12.00	18.55		18.70	0.000707	3.77	413.38	120.85	0.27
US Route 1-DS01	2595	100-Year	1254.31	12.00	18.98		19.15	0.000727	4.00	465.76	123.98	0.27
US Route 1-DS01	2595	500-Year	1834.79	12.00	20.06		20.28	0.000739	4.46	604.34	131.58	0.28
US Route 1-DS01	2540	2-Year	284.35	10.62	16.32	14.28	16.49	0.002117	3.89	120.02	102.37	0.30
US Route 1-DS01	2540	10-Year	614.85	10.62	17.26	16.44	17.46	0.002178	4.40	223.01	115.54	0.31
US Route 1-DS01	2540	25-Year	837.74	10.62	19.08	16.73	19.18	0.000567	2.66	450.59	132.29	0.17
US Route 1-DS01	2540	50-Year	1042.29	10.62	18.41	16.97	18.62	0.001636	4.26	362.73	127.27	0.28
US Route 1-DS01	2540	100-Year	1254.31	10.62	18.84	17.18	19.07	0.001579	4.35	417.87	130.45	0.27
US Route 1-DS01	2540	500-Year	1834.79	10.62	19.92	17.70	20.21	0.001419	4.50	563.97	138.43	0.27
US Route 1-DS01	2532.5 Footbridge		Bridge									
US Route 1-DS01	2525 FEMA "A"	2-Year	284.35	10.62	15.61	14.28	16.21	0.007261	6.54	58.88	62.14	0.54
US Route 1-DS01	2525 FEMA "A"	10-Year	614.85	10.62	16.90		17.33	0.004720	6.22	163.03	92.19	0.45
US Route 1-DS01	2525 FEMA "A"	25-Year	837.74	10.62	19.00		19.14	0.000955	3.43	390.77	120.38	0.21
US Route 1-DS01	2525 FEMA "A"	50-Year	1042.29	10.62	18.11	17.11	18.51	0.003340	5.93	286.88	112.24	0.39
US Route 1-DS01	2525 FEMA "A"	100-Year	1254.31	10.62	18.53	17.37	18.95	0.003221	6.05	335.18	116.10	0.39
US Route 1-DS01	2525 FEMA "A"	500-Year	1834.79	10.62	19.64	18.06	20.09	0.002802	6.18	468.24	124.80	0.37
US Route 1-DS01	2475	2-Year	284.35	13.00	15.51		15.84	0.003113	4.06	67.84	47.19	0.47
US Route 1-DS01	2475	10-Year	614.85	13.00	16.64		17.15	0.002180	4.46	153.62	97.32	0.42
US Route 1-DS01	2475	25-Year	837.74	13.00	18.89		19.09	0.000389	2.64	402.71	115.80	0.20
US Route 1-DS01	2475	50-Year	1042.29	13.00	16.87	16.87	18.07	0.004648	6.79	176.38	103.78	0.63
US Route 1-DS01	2475	100-Year	1254.31	13.00	17.25	17.25	18.51	0.004231	6.92	217.37	109.08	0.61
US Route 1-DS01	2475	500-Year	1834.79	13.00	17.98	17.98	19.58	0.004148	7.66	298.61	112.82	0.62
US Route 1-DS01	2420	2-Year	284.35	13.00	15.23		15.60	0.006877	5.28	60.23	52.67	0.68
US Route 1-DS01	2420	10-Year	614.85	13.00	16.69		16.98	0.001920	4.10	164.58	112.41	0.40
US Route 1-DS01	2420	25-Year	837.74	13.00	18.98		19.03	0.000197	1.86	557.46	203.59	0.14
US Route 1-DS01	2420	50-Year	1042.29	13.00	17.18		17.66	0.002634	5.25	231.93	151.18	0.47
US Route 1-DS01	2420	100-Year	1254.31	13.00	17.61		18.04	0.002089	5.02	300.36	165.82	0.43
US Route 1-DS01	2420	500-Year	1834.79	13.00	18.56		18.93	0.001445	4.78	473.95	194.37	0.37
US Route 1-DS01	2400	2-Year	284.35	8.45	15.37	11.84	15.41	0.000464	1.97	166.05	84.95	0.13
US Route 1-DS01	2400	10-Year	614.85	8.45	16.78	14.70	16.86	0.000368	1.99	298.60	108.01	0.12
US Route 1-DS01	2400	25-Year	837.74	8.45	18.99	14.92	19.02	0.000071	1.02	674.62	195.46	0.06
US Route 1-DS01	2400	50-Year	1042.29	8.45	17.32	15.17	17.46	0.000587	2.61	370.81	150.46	0.15

Deadman Brook Existing Conditions

HEC-RAS Plan: Existing (Continued)

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
US Route 1-DS01	2400	100-Year	1254.31	8.45	17.73	15.36	17.88	0.000553	2.62	436.01	170.55	0.15
US Route 1-DS01	2400	500-Year	1834.79	8.45	18.65	15.89	18.81	0.000467	2.56	607.97	192.90	0.14
US Route 1-DS01	2387.5 Footbridge		Bridge									
US Route 1-DS01	2375	2-Year	284.35	8.45	15.26		15.36	0.000943	2.78	112.88	59.68	0.19
US Route 1-DS01	2375	10-Year	614.85	8.45	16.60		16.77	0.000798	2.88	203.08	85.91	0.18
US Route 1-DS01	2375	25-Year	837.74	8.45	18.96		19.01	0.000117	1.31	546.86	182.02	0.07
US Route 1-DS01	2375	50-Year	1042.29	8.45	16.79		17.24	0.001923	4.54	221.27	107.68	0.28
US Route 1-DS01	2375	100-Year	1254.31	8.45	17.20		17.66	0.001704	4.42	269.36	125.10	0.26
US Route 1-DS01	2375	500-Year	1834.79	8.45	18.26	16.38	18.66	0.001115	3.86	425.92	166.49	0.22
US Route 1-DS01	2355	2-Year	284.35	12.80	14.87	14.82	15.24	0.007298	5.43	60.70	59.67	0.70
US Route 1-DS01	2355	10-Year	614.85	12.80	16.52		16.74	0.001505	3.76	168.38	72.11	0.35
US Route 1-DS01	2355	25-Year	837.74	12.80	18.96		19.00	0.000141	1.64	526.39	190.20	0.12
US Route 1-DS01	2355	50-Year	1042.29	12.80	15.99	15.99	17.00	0.009114	8.31	131.56	66.88	0.85
US Route 1-DS01	2355	100-Year	1254.31	12.80	16.26	16.26	17.39	0.008922	8.70	149.66	69.49	0.85
US Route 1-DS01	2355	500-Year	1834.79	12.80	16.96	16.96	18.33	0.007957	9.36	202.37	93.13	0.83
US Route 1-DS01	2330	2-Year	284.35	12.60	14.71	14.71	15.04	0.007074	5.46	68.53	85.70	0.69
US Route 1-DS01	2330	10-Year	614.85	12.60	16.58		16.68	0.000641	2.58	253.98	115.52	0.23
US Route 1-DS01	2330	25-Year	837.74	12.60	18.97		18.99	0.000078	1.25	664.07	201.06	0.09
US Route 1-DS01	2330	50-Year	1042.29	12.60	15.74	15.63	16.41	0.006952	7.20	163.45	100.70	0.74
US Route 1-DS01	2330	100-Year	1254.31	12.60	16.10		16.74	0.005475	6.89	200.00	107.08	0.67
US Route 1-DS01	2330	500-Year	1834.79	12.60	16.86		17.55	0.003984	6.74	286.60	122.92	0.59
US Route 1-DS01	2310	2-Year	284.35	10.58	14.44	13.90	14.60	0.002318	4.11	99.33	84.47	0.37
US Route 1-DS01	2310	10-Year	614.85	10.58	16.59	14.61	16.66	0.000380	2.23	300.84	106.72	0.16
US Route 1-DS01	2310	25-Year	837.74	10.58	18.96	14.86	18.99	0.000073	1.22	680.77	202.42	0.07
US Route 1-DS01	2310	50-Year	1042.29	10.58	15.82	15.07	16.17	0.002692	5.43	223.58	95.94	0.42
US Route 1-DS01	2310	100-Year	1254.31	10.58	16.15	15.26	16.54	0.002569	5.52	256.11	99.94	0.41
US Route 1-DS01	2310	500-Year	1834.79	10.58	16.89	15.78	17.39	0.002475	5.89	334.11	111.50	0.41
US Route 1-DS01	2299.21 Footbridge		Bridge									
US Route 1-DS01	2285	2-Year	284.35	9.58	13.51		14.00	0.006620	6.28	55.05	74.34	0.56
US Route 1-DS01	2285	10-Year	614.85	9.58	16.58		16.62	0.000264	1.84	367.54	132.12	0.12
US Route 1-DS01	2285	25-Year	837.74	9.58	18.96		18.98	0.000069	1.14	776.40	231.74	0.07
US Route 1-DS01	2285	50-Year	1042.29	9.58	14.84	13.80	15.66	0.009866	9.30	156.17	106.85	0.71
US Route 1-DS01	2285	100-Year	1254.31	9.58	15.06	13.81	15.91	0.009449	9.36	180.46	111.32	0.70
US Route 1-DS01	2285	500-Year	1834.79	9.58	15.57	15.57	16.52	0.008621	9.48	238.72	120.24	0.68
US Route 1-DS01	2225	2-Year	284.35	8.70	13.54		13.66	0.001355	3.28	109.45	65.36	0.27
US Route 1-DS01	2225	10-Year	614.85	8.70	16.58		16.60	0.000105	1.28	504.79	148.91	0.08
US Route 1-DS01	2225	25-Year	837.74	8.70	18.96		18.98	0.000033	0.85	897.28	167.52	0.05
US Route 1-DS01	2225	50-Year	1042.29	8.70	14.85		15.15	0.002310	5.06	258.30	137.20	0.37
US Route 1-DS01	2225	100-Year	1254.31	8.70	15.05		15.39	0.002501	5.38	285.56	138.82	0.38
US Route 1-DS01	2225	500-Year	1834.79	8.70	15.50		15.97	0.002944	6.11	348.51	141.61	0.42
US Route 1-DS01	2130	2-Year	284.35	7.60	13.37		13.52	0.001448	3.69	105.00	83.69	0.28
US Route 1-DS01	2130	10-Year	614.85	7.60	16.57		16.59	0.000067	1.09	591.97	190.45	0.07
US Route 1-DS01	2130	25-Year	837.74	7.60	18.96		18.97	0.000021	0.71	1073.18	211.91	0.04
US Route 1-DS01	2130	50-Year	1042.29	7.60	14.21	14.21	14.78	0.005335	7.79	191.74	148.85	0.55
US Route 1-DS01	2130	100-Year	1254.31	7.60	14.36	14.36	15.00	0.005777	8.24	215.10	151.18	0.57
US Route 1-DS01	2130	500-Year	1834.79	7.60	14.73	14.73	15.52	0.006500	9.07	270.89	156.61	0.62
US Route 1-DS01	2080	2-Year	284.35	6.77	13.43	9.51	13.44	0.000060	0.98	429.08	283.61	0.07
US Route 1-DS01	2080	10-Year	614.85	6.77	16.58	10.94	16.58	0.000007	0.43	1519.58	378.48	0.02
US Route 1-DS01	2080	25-Year	837.74	6.77	18.97	12.56	18.97	0.000003	0.33	2463.72	412.77	0.02
US Route 1-DS01	2080	50-Year	1042.29	6.77	14.19	12.74	14.24	0.000235	2.09	663.59	334.24	0.14
US Route 1-DS01	2080	100-Year	1254.31	6.77	14.41	12.87	14.46	0.000249	2.20	738.42	338.97	0.14
US Route 1-DS01	2080	500-Year	1834.79	6.77	14.89	13.16	14.96	0.000296	2.50	900.56	349.01	0.16
US Route 1-DS01	2052.5 Myrtle Ave		Bridge									
US Route 1-DS01	2025	2-Year	284.35	6.57	12.20	9.71	12.50	0.002537	4.66	74.81	93.90	0.35
US Route 1-DS01	2025	10-Year	614.85	6.57	16.58		16.58	0.000008	0.38	1425.63	484.26	0.02
US Route 1-DS01	2025	25-Year	837.74	6.57	18.97		18.97	0.000002	0.23	2582.36	484.26	0.01
US Route 1-DS01	2025	50-Year	1042.29	6.57	13.75		13.95	0.001127	3.66	311.03	209.83	0.24
US Route 1-DS01	2025	100-Year	1254.31	6.57	13.97		14.18	0.001114	3.71	356.23	216.44	0.24
US Route 1-DS01	2025	500-Year	1834.79	6.57	14.54		14.75	0.000900	3.51	549.68	364.53	0.22
US Route 1-DS01	1975	2-Year	284.35	6.30	11.57	11.57	12.19	0.007572	4.44	47.12	44.51	0.35
US Route 1-DS01	1975	10-Year	614.85	6.30	16.58		16.58	0.000006	0.20	1341.72	445.59	0.01
US Route 1-DS01	1975	25-Year	837.74	6.30	18.97		18.97	0.000002	0.12	2406.18	445.59	0.01
US Route 1-DS01	1975	50-Year	1042.29	6.30	13.19	13.19	13.76	0.002346	2.99	190.40	164.25	0.21
US Route 1-DS01	1975	100-Year	1254.31	6.30	13.34	13.34	13.97	0.002527	3.15	216.09	173.96	0.21
US Route 1-DS01	1975	500-Year	1834.79	6.30	14.00	13.73	14.57	0.001916	2.92	345.49	322.78	0.19
US Route 1-DS01	1920	2-Year	284.35	5.50	10.13	9.90	10.39	0.002849	3.08	71.45	84.80	0.27
US Route 1-DS01	1920	10-Year	614.85	5.50	16.58	10.47	16.58	0.000001	0.12	2366.11	650.47	0.01
US Route 1-DS01	1920	25-Year	837.74	5.50	18.97	10.80	18.97	0.000001	0.08	3919.55	650.47	0.00
US Route 1-DS01	1920	50-Year	1042.29	5.50	12.84	11.12	12.93	0.000228	1.16	464.35	274.76	0.08

Deadman Brook Existing Conditions

HEC-RAS Plan: Existing (Continued)

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
US Route 1-DS01	1920	100-Year	1254.31	5.50	13.23	11.19	13.31	0.000197	1.11	579.06	481.61	0.07
US Route 1-DS01	1920	500-Year	1834.79	5.50	14.34	11.68	14.40	0.000110	0.92	1013.25	548.96	0.06
US Route 1-DS01	1875	2-Year	284.35	4.00	10.13	8.05	10.25	0.000835	2.71	101.22	40.35	0.21
US Route 1-DS01	1875	10-Year	614.85	4.00	16.58	9.04	16.58	0.000002	0.20	2475.80	695.70	0.01
US Route 1-DS01	1875	25-Year	837.74	4.00	18.97	9.55	18.97	0.000001	0.13	4137.27	695.70	0.01
US Route 1-DS01	1875	50-Year	1042.29	4.00	12.83	10.00	12.91	0.000426	2.50	498.58	415.92	0.16
US Route 1-DS01	1875	100-Year	1254.31	4.00	13.23	11.45	13.29	0.000325	2.25	629.02	480.88	0.14
US Route 1-DS01	1875	500-Year	1834.79	4.00	14.34	11.88	14.39	0.000154	1.68	1045.63	615.39	0.10
US Route 1-DS01	1732.5 U.S. Route 1	Bridge										
US Route 1-DS01	1590	2-Year	284.35	2.77	9.47		9.47	0.000024	0.49	544.42	254.15	0.03
US Route 1-DS01	1590	10-Year	614.85	2.77	16.58		16.58	0.000000	0.11	2942.12	397.79	0.01
US Route 1-DS01	1590	25-Year	837.74	2.77	18.97		18.97	0.000000	0.11	3940.87	438.56	0.00
US Route 1-DS01	1590	50-Year	1042.29	2.77	12.66		12.67	0.000011	0.44	1503.09	330.14	0.02
US Route 1-DS01	1590	100-Year	1254.31	2.77	13.13		13.14	0.000012	0.46	1659.52	337.11	0.03
US Route 1-DS01	1590	500-Year	1834.79	2.77	14.31		14.32	0.000013	0.52	2071.24	363.86	0.03
US Route 1-DS01	1500	2-Year	315.02	3.00	9.45		9.46	0.000054	0.72	362.05	192.07	0.05
US Route 1-DS01	1500	10-Year	658.66	3.00	16.58		16.58	0.000001	0.16	2294.43	325.56	0.01
US Route 1-DS01	1500	25-Year	876.06	3.00	18.97		18.97	0.000001	0.14	3084.41	335.45	0.01
US Route 1-DS01	1500	50-Year	1110.42	3.00	12.65		12.67	0.000021	0.61	1119.82	265.20	0.04
US Route 1-DS01	1500	100-Year	1338.32	3.00	13.12		13.14	0.000022	0.64	1245.67	272.97	0.04
US Route 1-DS01	1500	500-Year	1970.91	3.00	14.29		14.31	0.000024	0.72	1577.74	294.85	0.04
US Route 1-DS01	1360	2-Year	315.02	2.40	9.39		9.44	0.000375	2.08	180.98	56.85	0.15
US Route 1-DS01	1360	10-Year	658.66	2.40	16.57		16.58	0.000006	0.44	1323.67	229.01	0.02
US Route 1-DS01	1360	25-Year	876.06	2.40	18.96		18.97	0.000004	0.38	1884.77	240.04	0.02
US Route 1-DS01	1360	50-Year	1110.42	2.40	12.55		12.65	0.000278	2.36	488.58	154.33	0.14
US Route 1-DS01	1360	100-Year	1338.32	2.40	13.01		13.12	0.000276	2.42	562.18	177.52	0.14
US Route 1-DS01	1360	500-Year	1970.91	2.40	14.18		14.30	0.000241	2.44	792.11	212.59	0.13
US Route 1-DS01	1200	2-Year	315.02	1.60	9.38	3.82	9.40	0.000103	1.26	299.12	104.60	0.08
US Route 1-DS01	1200	10-Year	658.66	1.60	16.57	4.90	16.58	0.000004	0.40	1524.98	232.21	0.02
US Route 1-DS01	1200	25-Year	876.06	1.60	18.96	5.44	18.97	0.000002	0.34	2079.73	232.21	0.01
US Route 1-DS01	1200	50-Year	1110.42	1.60	12.56	5.96	12.61	0.000118	1.70	719.61	160.49	0.09
US Route 1-DS01	1200	100-Year	1338.32	1.60	13.02	6.41	13.08	0.000127	1.82	795.69	170.21	0.10
US Route 1-DS01	1200	500-Year	1970.91	1.60	14.18	7.51	14.26	0.000137	2.02	1006.25	192.97	0.10
US Route 1-DS01	1140	2-Year	315.02	-0.57	9.30	3.11	9.37	0.000408	2.33	166.18	85.64	0.14
US Route 1-DS01	1140	10-Year	658.66	-0.57	16.57	4.99	16.58	0.000009	0.51	1198.12	205.85	0.02
US Route 1-DS01	1140	25-Year	876.06	-0.57	18.96	5.93	18.96	0.000005	0.42	1705.00	217.50	0.02
US Route 1-DS01	1140	50-Year	1110.42	-0.57	12.45	6.82	12.57	0.000393	2.80	472.12	142.89	0.14
US Route 1-DS01	1140	100-Year	1338.32	-0.57	12.90	7.48	13.04	0.000391	2.86	537.73	150.82	0.14
US Route 1-DS01	1140	500-Year	1970.91	-0.57	14.04	10.72	14.21	0.000362	2.92	719.55	168.45	0.14
US Route 1-DS01	1110 Jesup Rd	Bridge										
US Route 1-DS01	1080	2-Year	315.02	-0.86	9.12		9.17	0.000323	1.90	178.17	53.31	0.14
US Route 1-DS01	1080	10-Year	658.66	-0.86	16.56		16.57	0.000013	0.65	1113.30	211.87	0.03
US Route 1-DS01	1080	25-Year	876.06	-0.86	18.96		18.96	0.000007	0.55	1692.34	263.18	0.02
US Route 1-DS01	1080	50-Year	1110.42	-0.86	10.74		11.04	0.001408	4.67	289.48	89.08	0.30
US Route 1-DS01	1080	100-Year	1338.32	-0.86	11.46		11.74	0.001169	4.53	359.53	101.92	0.28
US Route 1-DS01	1080	500-Year	1970.91	-0.86	13.04		13.30	0.000802	4.21	534.71	119.79	0.24
US Route 1-DS01	1020	2-Year	315.02	1.40	9.13		9.15	0.000073	1.07	324.20	72.28	0.07
US Route 1-DS01	1020	10-Year	658.66	1.40	16.56		16.57	0.000006	0.48	1347.73	222.28	0.02
US Route 1-DS01	1020	25-Year	876.06	1.40	18.96		18.96	0.000004	0.42	1926.65	263.17	0.02
US Route 1-DS01	1020	50-Year	1110.42	1.40	10.80		10.91	0.000365	2.74	438.24	89.42	0.16
US Route 1-DS01	1020	100-Year	1338.32	1.40	11.50		11.63	0.000380	2.93	492.00	96.53	0.16
US Route 1-DS01	1020	500-Year	1970.91	1.40	13.07		13.21	0.000376	3.22	694.02	148.45	0.17
US Route 1-DS01	800	2-Year	315.02	1.40	9.14		9.14	0.000007	0.32	1059.60	155.25	0.02
US Route 1-DS01	800	10-Year	658.66	1.40	16.56		16.56	0.000003	0.32	2409.18	263.92	0.01
US Route 1-DS01	800	25-Year	876.06	1.40	18.96		18.96	0.000002	0.33	3095.15	309.11	0.01
US Route 1-DS01	800	50-Year	1110.42	1.40	10.85		10.86	0.000041	0.92	1327.92	158.83	0.05
US Route 1-DS01	800	100-Year	1338.32	1.40	11.55		11.57	0.000046	1.03	1440.81	160.92	0.06
US Route 1-DS01	800	500-Year	1970.91	1.40	13.12		13.15	0.000061	1.31	1697.26	165.89	0.07
US Route 1-DS01	600	2-Year	315.02	1.20	9.14		9.14	0.000003	0.21	1612.85	229.94	0.01
US Route 1-DS01	600	10-Year	658.66	1.20	16.56		16.56	0.000001	0.21	3658.82	403.18	0.01
US Route 1-DS01	600	25-Year	876.06	1.20	18.96		18.96	0.000001	0.22	4624.49	403.18	0.01
US Route 1-DS01	600	50-Year	1110.42	1.20	10.85		10.85	0.000016	0.60	2012.91	238.26	0.03
US Route 1-DS01	600	100-Year	1338.32	1.20	11.55		11.56	0.000019	0.67	2182.65	242.01	0.04
US Route 1-DS01	600	500-Year	1970.91	1.20	13.13		13.14	0.000025	0.86	2571.70	255.37	0.04
US Route 1-DS01	420	2-Year	315.02	0.00	9.14	0.65	9.14	0.000004	0.30	1117.54	137.63	0.02
US Route 1-DS01	420	10-Year	658.66	0.00	16.56	1.05	16.56	0.000002	0.33	2239.86	164.27	0.01
US Route 1-DS01	420	25-Year	876.06	0.00	18.96	1.27	18.96	0.000003	0.38	2633.22	164.27	0.02
US Route 1-DS01	420	50-Year	1110.42	0.00	10.84	1.48	10.85	0.000030	0.88	1342.84	142.46	0.05
US Route 1-DS01	420	100-Year	1338.32	0.00	11.54	1.68	11.56	0.000035	0.99	1436.98	144.53	0.05
US Route 1-DS01	420	500-Year	1970.91	0.00	13.10	2.17	13.13	0.000050	1.28	1648.54	149.81	0.06

Deadman Brook Existing Conditions

HEC-RAS Plan: Existing (Continued)

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
US Route 1-DS01	370	2-Year	315.02	-2.64	9.13	-0.44	9.13	0.000031	0.79	666.43	91.40	0.04
US Route 1-DS01	370	10-Year	658.66	-2.64	16.56	1.29	16.56	0.000016	0.80	1456.00	118.00	0.03
US Route 1-DS01	370	25-Year	876.06	-2.64	18.95	2.13	18.96	0.000017	0.89	1738.48	118.00	0.03
US Route 1-DS01	370	50-Year	1110.42	-2.64	10.79	2.57	10.83	0.000213	2.27	824.13	98.99	0.11
US Route 1-DS01	370	100-Year	1338.32	-2.64	11.48	2.93	11.54	0.000246	2.53	892.13	101.42	0.12
US Route 1-DS01	370	500-Year	1970.91	-2.64	13.02	3.77	13.11	0.000332	3.15	1044.42	106.58	0.14
US Route 1-DS01	345	Footbridge	Bridge									
US Route 1-DS01	320	2-Year	315.02	-3.09	9.13	-0.89	9.13	0.000036	0.85	549.95	77.74	0.04
US Route 1-DS01	320	10-Year	658.66	-3.09	16.55	0.64	16.56	0.000024	0.96	1328.08	155.00	0.04
US Route 1-DS01	320	25-Year	876.06	-3.09	18.94	1.60	18.95	0.000022	1.00	1699.58	155.00	0.04
US Route 1-DS01	320	50-Year	1110.42	-3.09	10.73	2.38	10.80	0.000262	2.50	654.50	85.00	0.12
US Route 1-DS01	320	100-Year	1338.32	-3.09	11.40	2.87	11.48	0.000312	2.82	697.72	88.01	0.13
US Route 1-DS01	320	500-Year	1970.91	-3.09	12.82	3.97	12.95	0.000458	3.63	790.14	94.42	0.16
US Route 1-DS01	220	2-Year	315.02	-2.72	9.12		9.13	0.000011	0.48	700.10	87.17	0.03
US Route 1-DS01	220	10-Year	658.66	-2.72	16.55		16.55	0.000006	0.53	1491.94	122.15	0.02
US Route 1-DS01	220	25-Year	876.06	-2.72	18.94		18.95	0.000007	0.61	1792.40	126.80	0.02
US Route 1-DS01	220	50-Year	1110.42	-2.72	10.73		10.76	0.000078	1.44	846.80	95.55	0.08
US Route 1-DS01	220	100-Year	1338.32	-2.72	11.40		11.44	0.000092	1.62	911.02	97.34	0.08
US Route 1-DS01	220	500-Year	1970.91	-2.72	12.82		12.89	0.000134	2.11	1059.59	109.74	0.10
US Route 1-DS01	0	2-Year	315.02	2.00	9.12	2.98	9.13	0.000030	0.66	520.30	88.75	0.04
US Route 1-DS01	0	10-Year	658.66	2.00	16.55	3.58	16.55	0.000010	0.61	1348.62	129.83	0.03
US Route 1-DS01	0	25-Year	876.06	2.00	18.94	3.90	18.95	0.000010	0.68	1669.10	137.70	0.03
US Route 1-DS01	0	50-Year	1110.42	2.00	10.70	4.21	10.75	0.000186	1.87	666.09	95.85	0.11
US Route 1-DS01	0	100-Year	1338.32	2.00	11.36	4.48	11.42	0.000209	2.08	730.82	101.49	0.12
US Route 1-DS01	0	500-Year	1970.91	2.00	12.77	5.18	12.87	0.000275	2.62	884.14	114.12	0.14

Deadman Brook Tributaries Existing Conditions

HEC-RAS Plan: Existing

River	Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
Tributary 8	Sturges Hwy	430	2-Year	16.21	227.60	228.57		228.65	0.007329	2.29	7.08	9.26	0.46
Tributary 8	Sturges Hwy	430	10-Year	41.31	227.60	228.68	228.66	229.08	0.031825	5.07	8.15	9.72	0.97
Tributary 8	Sturges Hwy	430	25-Year	58.97	227.60	228.90	228.90	229.40	0.032164	5.64	10.45	10.62	1.00
Tributary 8	Sturges Hwy	430	50-Year	73.24	227.60	229.06	229.06	229.63	0.031326	6.02	12.18	11.27	1.01
Tributary 8	Sturges Hwy	430	100-Year	87.62	227.60	229.21	229.21	229.84	0.029801	6.36	13.85	11.87	1.00
Tributary 8	Sturges Hwy	430	500-Year	127.40	227.60	229.57	229.57	230.36	0.026470	7.12	18.49	13.41	0.99
Tributary 8	Sturges Hwy	380	2-Year	16.21	224.40	228.60	224.97	228.60	0.000033	0.38	66.08	88.38	0.03
Tributary 8	Sturges Hwy	380	10-Year	41.31	224.40	228.86	225.48	228.87	0.000068	0.57	172.34	92.16	0.05
Tributary 8	Sturges Hwy	380	25-Year	58.97	224.40	228.96	225.76	228.97	0.000121	0.77	181.50	93.57	0.06
Tributary 8	Sturges Hwy	380	50-Year	73.24	224.40	228.98	225.96	228.99	0.000182	0.95	183.21	93.83	0.08
Tributary 8	Sturges Hwy	380	100-Year	87.62	224.40	229.08	226.29	229.09	0.000231	1.08	192.91	96.71	0.09
Tributary 8	Sturges Hwy	380	500-Year	127.40	224.40	229.22	226.90	229.24	0.000424	1.49	207.16	104.38	0.12
Tributary 8	Sturges Hwy	343.95	Sturges Hwy	Culvert									
Tributary 8	Sturges Hwy	310	2-Year	16.21	224.65	225.79	225.24	225.86	0.003910	2.17	8.20	16.70	0.36
Tributary 8	Sturges Hwy	310	10-Year	41.31	224.65	226.21	225.75	226.33	0.005668	3.12	19.53	21.70	0.44
Tributary 8	Sturges Hwy	310	25-Year	58.97	224.65	226.39	225.94	226.56	0.007161	3.79	23.82	23.81	0.51
Tributary 8	Sturges Hwy	310	50-Year	73.24	224.65	226.53	226.11	226.73	0.008126	4.23	27.06	25.29	0.54
Tributary 8	Sturges Hwy	310	100-Year	87.62	224.65	226.72	226.25	226.93	0.007688	4.39	32.12	27.44	0.54
Tributary 8	Sturges Hwy	310	500-Year	127.40	224.65	227.01	226.57	227.31	0.009160	5.24	40.74	30.89	0.60
Tributary 8	Sturges Hwy	260	2-Year	16.21	224.00	225.80	224.53	225.80	0.000168	0.54	34.78	37.76	0.08
Tributary 8	Sturges Hwy	260	10-Year	41.31	224.00	226.20	224.86	226.22	0.000422	1.01	52.41	44.66	0.13
Tributary 8	Sturges Hwy	260	25-Year	58.97	224.00	226.39	225.02	226.42	0.000585	1.27	61.12	46.87	0.16
Tributary 8	Sturges Hwy	260	50-Year	73.24	224.00	226.53	225.13	226.56	0.000703	1.45	67.48	48.42	0.17
Tributary 8	Sturges Hwy	260	100-Year	87.62	224.00	226.72	225.24	226.75	0.000719	1.56	77.09	50.67	0.18
Tributary 8	Sturges Hwy	260	500-Year	127.40	224.00	227.02	225.49	227.07	0.000947	1.94	92.81	54.05	0.21
Tributary 8	Sturges Hwy	185	2-Year	16.21	223.80	225.79		225.79	0.000110	0.45	72.64	84.23	0.06
Tributary 8	Sturges Hwy	185	10-Year	41.31	223.80	226.19		226.19	0.000248	0.79	106.80	87.44	0.10
Tributary 8	Sturges Hwy	185	25-Year	58.97	223.80	226.37		226.38	0.000336	0.98	123.09	88.57	0.12
Tributary 8	Sturges Hwy	185	50-Year	73.24	223.80	226.50		226.51	0.000400	1.11	134.65	89.36	0.13
Tributary 8	Sturges Hwy	185	100-Year	87.62	223.80	226.70		226.71	0.000400	1.17	152.23	90.55	0.13
Tributary 8	Sturges Hwy	185	500-Year	127.40	223.80	226.99		227.01	0.000523	1.45	179.22	92.35	0.15
Tributary 8	Sturges Hwy	135	2-Year	16.21	223.00	225.79	223.87	225.79	0.000023	0.23	177.02	138.93	0.02
Tributary 8	Sturges Hwy	135	10-Year	41.31	223.00	226.18	224.63	226.18	0.000064	0.42	232.69	142.55	0.04
Tributary 8	Sturges Hwy	135	25-Year	58.97	223.00	226.37	224.74	226.37	0.000093	0.53	259.03	144.00	0.05
Tributary 8	Sturges Hwy	135	50-Year	73.24	223.00	226.50	224.83	226.50	0.000116	0.60	277.69	145.02	0.06
Tributary 8	Sturges Hwy	135	100-Year	87.62	223.00	226.69	224.87	226.69	0.000122	0.64	306.17	146.56	0.06
Tributary 8	Sturges Hwy	135	500-Year	127.40	223.00	226.99	224.97	226.99	0.000170	0.80	349.56	148.88	0.07
Tributary 8	Sturges Hwy	125.12	Footbridge	Bridge									
Tributary 8	Sturges Hwy	115	2-Year	16.21	223.00	225.79		225.79	0.000011	0.16	246.29	181.41	0.02
Tributary 8	Sturges Hwy	115	10-Year	41.31	223.00	226.18		226.18	0.000032	0.30	318.70	185.25	0.03
Tributary 8	Sturges Hwy	115	25-Year	58.97	223.00	226.37		226.37	0.000047	0.37	352.81	186.60	0.04
Tributary 8	Sturges Hwy	115	50-Year	73.24	223.00	226.49		226.49	0.000058	0.43	376.89	187.56	0.04
Tributary 8	Sturges Hwy	115	100-Year	87.62	223.00	226.69		226.69	0.000062	0.46	413.67	189.00	0.04
Tributary 8	Sturges Hwy	115	500-Year	127.40	223.00	226.98		226.98	0.000087	0.57	469.36	191.17	0.05
Tributary 8	Sturges Hwy	60	2-Year	16.21	223.40	225.79		225.79	0.000002	0.07	355.29	267.93	0.01
Tributary 8	Sturges Hwy	60	10-Year	41.31	223.40	226.18		226.18	0.000006	0.15	461.47	270.85	0.02
Tributary 8	Sturges Hwy	60	25-Year	58.97	223.40	226.36		226.37	0.000008	0.19	511.20	272.32	0.02
Tributary 8	Sturges Hwy	60	50-Year	73.24	223.40	226.49		226.49	0.000011	0.22	546.26	273.34	0.02
Tributary 8	Sturges Hwy	60	100-Year	87.62	223.40	226.69		226.69	0.000011	0.23	599.79	274.91	0.02
Tributary 8	Sturges Hwy	60	500-Year	127.40	223.40	226.98		226.98	0.000016	0.30	680.53	277.25	0.03
Tributary 7	Merritt Pkwy	925	2-Year	9.54	204.00	204.66		204.69	0.004428	1.34	7.14	14.90	0.34
Tributary 7	Merritt Pkwy	925	10-Year	28.31	204.00	205.43		205.45	0.001436	1.32	23.75	32.13	0.22
Tributary 7	Merritt Pkwy	925	25-Year	42.15	204.00	206.19		206.20	0.000452	1.05	56.97	55.36	0.14
Tributary 7	Merritt Pkwy	925	50-Year	53.50	204.00	206.87		206.88	0.000205	0.88	102.39	76.45	0.10
Tributary 7	Merritt Pkwy	925	100-Year	65.06	204.00	207.96		207.97	0.000066	0.63	197.68	97.23	0.06
Tributary 7	Merritt Pkwy	925	500-Year	97.85	204.00	210.87		210.87	0.000002	0.16	1232.73	519.44	0.01
Tributary 7	Merritt Pkwy	875	2-Year	9.54	203.60	204.02	204.00	204.17	0.038543	3.08	3.10	9.38	0.94
Tributary 7	Merritt Pkwy	875	10-Year	28.31	203.60	205.37		205.39	0.000826	1.25	34.26	53.38	0.18
Tributary 7	Merritt Pkwy	875	25-Year	42.15	203.60	206.17		206.18	0.000246	0.90	95.31	82.53	0.10
Tributary 7	Merritt Pkwy	875	50-Year	53.50	203.60	206.87		206.87	0.000123	0.76	160.60	110.85	0.08
Tributary 7	Merritt Pkwy	875	100-Year	65.06	203.60	207.96		207.96	0.000041	0.54	293.62	133.88	0.05
Tributary 7	Merritt Pkwy	875	500-Year	97.85	203.60	210.87		210.87	0.000002	0.17	1222.06	450.14	0.01
Tributary 7	Merritt Pkwy	675	2-Year	9.54	202.60	204.11		204.11	0.000010	0.12	78.04	62.34	0.02
Tributary 7	Merritt Pkwy	675	10-Year	28.31	202.60	205.38		205.38	0.000008	0.18	175.30	238.39	0.02
Tributary 7	Merritt Pkwy	675	25-Year	42.15	202.60	206.17		206.17	0.000007	0.20	270.79	330.08	0.02
Tributary 7	Merritt Pkwy	675	50-Year	53.50	202.60	206.87		206.87	0.000005	0.18	417.44	360.27	0.02
Tributary 7	Merritt Pkwy	675	100-Year	65.06	202.60	207.96		207.96	0.000002	0.13	822.78	397.99	0.01
Tributary 7	Merritt Pkwy	675	500-Year	97.85	202.60	210.87		210.87	0.000000	0.08	2028.74	431.02	0.00
Tributary 7	Merritt Pkwy	600	2-Year	9.54	202.60	204.11		204.11	0.000016	0.15	71.99	96.65	0.02
Tributary 7	Merritt Pkwy	600	10-Year	28.31	202.60	205.38		205.38	0.000008	0.17	280.29	332.30	0.02
Tributary 7	Merritt Pkwy	600	25-Year	42.15	202.60	206.17		206.17	0.000005	0.17	498.15	428.69	0.02
Tributary 7	Merritt Pkwy	600	50-Year	53.50	202.60	206.87		206.87	0.000003	0.15	799.44	440.25	0.01
Tributary 7	Merritt Pkwy	600	100-Year	65.06	202.60	207.96		207.96	0.000001	0.12	1295.33	463.02	0.01
Tributary 7	Merritt Pkwy	600	500-Year	97.85	202.60	210.87		210.87	0.000000	0.08	2704.74	506.96	0.01

Deadman Brook Tributaries Existing Conditions

HEC-RAS Plan: Existing (Continued)

River	Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
Tributary 7	Merritt Pkwy	550	2-Year	9.54	202.60	204.11	202.85	204.11	0.000017	0.14	75.72	96.71	0.02
Tributary 7	Merritt Pkwy	550	10-Year	28.31	202.60	205.38	203.06	205.38	0.000008	0.17	235.93	259.08	0.02
Tributary 7	Merritt Pkwy	550	25-Year	42.15	202.60	206.17	203.16	206.17	0.000006	0.17	371.27	337.50	0.02
Tributary 7	Merritt Pkwy	550	50-Year	53.50	202.60	206.87	203.26	206.87	0.000004	0.16	629.06	398.35	0.01
Tributary 7	Merritt Pkwy	550	100-Year	65.06	202.60	207.96	203.31	207.96	0.000002	0.13	1088.83	438.71	0.01
Tributary 7	Merritt Pkwy	550	500-Year	97.85	202.60	210.87	203.42	210.87	0.000000	0.09	2716.21	701.70	0.01
Tributary 7	Merritt Pkwy	459.28	Merritt Pkwy	Culvert									
Tributary 7	Merritt Pkwy	365	2-Year	9.54	200.40	201.03	200.76	201.05	0.004947	1.31	7.28	33.25	0.35
Tributary 7	Merritt Pkwy	365	10-Year	28.31	200.40	201.41	201.05	201.46	0.006077	1.83	15.77	56.57	0.42
Tributary 7	Merritt Pkwy	365	25-Year	42.15	200.40	201.33	201.20	201.48	0.019023	3.10	13.79	52.15	0.73
Tributary 7	Merritt Pkwy	365	50-Year	53.50	200.40	201.59		201.70	0.008734	2.63	21.15	65.41	0.52
Tributary 7	Merritt Pkwy	365	100-Year	65.06	200.40	202.37		202.39	0.000896	1.33	79.89	98.28	0.19
Tributary 7	Merritt Pkwy	365	500-Year	97.85	200.40	202.94		202.96	0.000533	1.26	140.05	112.35	0.15
Tributary 7	Merritt Pkwy	315	2-Year	9.54	200.00	200.45		200.51	0.031486	1.97	4.85	24.93	0.79
Tributary 7	Merritt Pkwy	315	10-Year	28.31	200.00	200.61	200.61	200.73	0.049561	2.80	10.09	42.76	1.02
Tributary 7	Merritt Pkwy	315	25-Year	42.15	200.00	200.97		201.00	0.004554	1.37	31.07	68.48	0.35
Tributary 7	Merritt Pkwy	315	50-Year	53.50	200.00	201.58		201.59	0.000446	0.74	83.45	114.47	0.12
Tributary 7	Merritt Pkwy	315	100-Year	65.06	200.00	202.37		202.37	0.000088	0.47	188.84	148.11	0.06
Tributary 7	Merritt Pkwy	315	500-Year	97.85	200.00	202.94		202.95	0.000073	0.52	278.29	165.08	0.06
Tributary 7	Merritt Pkwy	95	2-Year	9.54	199.00	199.57		199.58	0.001574	0.71	13.40	33.41	0.20
Tributary 7	Merritt Pkwy	95	10-Year	28.31	199.00	200.11		200.12	0.000654	0.59	50.59	112.96	0.14
Tributary 7	Merritt Pkwy	95	25-Year	42.15	199.00	200.95		200.95	0.000057	0.31	186.73	192.38	0.05
Tributary 7	Merritt Pkwy	95	50-Year	53.50	199.00	201.57		201.58	0.000023	0.25	313.01	209.82	0.03
Tributary 7	Merritt Pkwy	95	100-Year	65.06	199.00	202.37		202.37	0.000010	0.21	488.40	233.93	0.02
Tributary 7	Merritt Pkwy	95	500-Year	97.85	199.00	202.94		202.94	0.000011	0.25	627.62	253.63	0.02
Tributary 6	Bayberry Ln	360	2-Year	14.14	200.40	201.68		201.68	0.000215	0.46	39.94	68.61	0.08
Tributary 6	Bayberry Ln	360	10-Year	30.20	200.40	202.01		202.02	0.000302	0.67	67.93	98.27	0.11
Tributary 6	Bayberry Ln	360	25-Year	40.87	200.40	202.24		202.25	0.000282	0.72	92.58	118.26	0.10
Tributary 6	Bayberry Ln	360	50-Year	49.26	200.40	202.08		202.09	0.000665	1.02	74.12	104.27	0.16
Tributary 6	Bayberry Ln	360	100-Year	57.62	200.40	202.12		202.14	0.000795	1.15	78.86	108.63	0.17
Tributary 6	Bayberry Ln	360	500-Year	79.44	200.40	202.23		202.25	0.001109	1.42	90.93	117.64	0.21
Tributary 6	Bayberry Ln	310	2-Year	14.14	200.20	201.60	200.87	201.64	0.002967	1.84	13.45	32.62	0.27
Tributary 6	Bayberry Ln	310	10-Year	30.20	200.20	201.98	201.39	201.99	0.001205	1.37	39.05	91.21	0.18
Tributary 6	Bayberry Ln	310	25-Year	40.87	200.20	202.22	201.60	202.23	0.000426	0.89	63.37	105.95	0.11
Tributary 6	Bayberry Ln	310	50-Year	49.26	200.20	201.98	201.64	202.02	0.003080	2.20	39.56	91.63	0.29
Tributary 6	Bayberry Ln	310	100-Year	57.62	200.20	202.02	201.88	202.06	0.003248	2.29	42.82	94.08	0.30
Tributary 6	Bayberry Ln	310	500-Year	79.44	200.20	202.11	201.94	202.16	0.003190	2.34	51.84	99.74	0.30
Tributary 6	Bayberry Ln	300.18	Footbridge	Bridge									
Tributary 6	Bayberry Ln	290	2-Year	14.14	200.20	201.17	200.87	201.31	0.013010	3.02	6.25	34.23	0.54
Tributary 6	Bayberry Ln	290	10-Year	30.20	200.20	201.36	201.35	201.45	0.009869	2.96	15.57	58.23	0.48
Tributary 6	Bayberry Ln	290	25-Year	40.87	200.20	201.44	201.39	201.52	0.008164	2.81	21.06	79.69	0.44
Tributary 6	Bayberry Ln	290	50-Year	49.26	200.20	201.50	201.42	201.57	0.006959	2.67	25.58	81.10	0.41
Tributary 6	Bayberry Ln	290	100-Year	57.62	200.20	201.55	201.46	201.63	0.005919	2.54	30.18	82.50	0.38
Tributary 6	Bayberry Ln	290	500-Year	79.44	200.20	201.71	201.52	201.78	0.003849	2.20	43.14	85.97	0.32
Tributary 6	Bayberry Ln	240	2-Year	14.14	199.60	200.08	200.08	200.26	0.041364	3.42	4.19	12.86	1.00
Tributary 6	Bayberry Ln	240	10-Year	30.20	199.60	200.33	200.33	200.60	0.031951	4.24	7.97	17.77	0.96
Tributary 6	Bayberry Ln	240	25-Year	40.87	199.60	200.46	200.46	200.77	0.029305	4.63	10.48	20.38	0.95
Tributary 6	Bayberry Ln	240	50-Year	49.26	199.60	200.55	200.55	200.90	0.027769	4.87	12.47	22.23	0.94
Tributary 6	Bayberry Ln	240	100-Year	57.62	199.60	200.64	200.64	201.01	0.026347	5.07	14.51	23.98	0.93
Tributary 6	Bayberry Ln	240	500-Year	79.44	199.60	200.80	200.80	201.27	0.027165	5.75	18.76	27.36	0.97
Tributary 6	Bayberry Ln	105	2-Year	14.14	197.20	198.03		198.09	0.007261	1.92	7.35	12.82	0.45
Tributary 6	Bayberry Ln	105	10-Year	30.20	197.20	198.77		198.81	0.002283	1.43	21.14	24.15	0.27
Tributary 6	Bayberry Ln	105	25-Year	40.87	197.20	199.17		199.20	0.001304	1.29	31.98	30.06	0.21
Tributary 6	Bayberry Ln	105	50-Year	49.26	197.20	199.28		199.31	0.001406	1.41	35.37	54.79	0.22
Tributary 6	Bayberry Ln	105	100-Year	57.62	197.20	199.42		199.45	0.001372	1.49	40.20	87.50	0.22
Tributary 6	Bayberry Ln	105	500-Year	79.44	197.20	199.85		199.88	0.000903	1.44	79.85	161.87	0.19
Tributary 5	Silent Grove N	1075	2-Year	2.54	194.40	195.30		195.30	0.000001	0.02	104.65	126.83	0.00
Tributary 5	Silent Grove N	1075	10-Year	18.69	194.40	196.62		196.62	0.000001	0.07	335.89	196.83	0.01
Tributary 5	Silent Grove N	1075	25-Year	31.57	194.40	197.81		197.81	0.000001	0.07	593.34	246.81	0.01
Tributary 5	Silent Grove N	1075	50-Year	41.34	194.40	197.99		197.99	0.000001	0.08	637.65	253.40	0.01
Tributary 5	Silent Grove N	1075	100-Year	50.62	194.40	198.10		198.10	0.000002	0.10	667.25	257.97	0.01
Tributary 5	Silent Grove N	1075	500-Year	74.64	194.40	198.37		198.37	0.000003	0.13	739.68	285.24	0.01
Tributary 5	Silent Grove N	870	2-Year	2.54	194.20	195.30		195.30	0.000001	0.03	77.34	89.01	0.01
Tributary 5	Silent Grove N	870	10-Year	18.69	194.20	196.62		196.62	0.000003	0.09	288.83	202.97	0.01
Tributary 5	Silent Grove N	870	25-Year	31.57	194.20	197.81		197.81	0.000001	0.09	553.44	244.36	0.01
Tributary 5	Silent Grove N	870	50-Year	41.34	194.20	197.99		197.99	0.000002	0.11	597.38	251.92	0.01
Tributary 5	Silent Grove N	870	100-Year	50.62	194.20	198.10		198.10	0.000003	0.13	627.33	261.41	0.01
Tributary 5	Silent Grove N	870	500-Year	74.64	194.20	198.37		198.37	0.000004	0.18	697.18	269.59	0.02
Tributary 5	Silent Grove N	665	2-Year	2.54	194.20	195.30		195.30	0.000001	0.03	77.60	80.86	0.01
Tributary 5	Silent Grove N	665	10-Year	18.69	194.20	196.62		196.62	0.000003	0.10	221.45	174.64	0.01
Tributary 5	Silent Grove N	665	25-Year	31.57	194.20	197.81		197.81	0.000002	0.10	482.53	236.79	0.01
Tributary 5	Silent Grove N	665	50-Year	41.34	194.20	197.99		197.99	0.000002	0.12	524.79	240.89	0.01
Tributary 5	Silent Grove N	665	100-Year	50.62	194.20	198.10		198.10	0.000003	0.14	552.82	244.56	0.01
Tributary 5	Silent Grove N	665	500-Year	74.64	194.20	198.37		198.37	0.000005	0.19	618.17	253.11	0.02

Deadman Brook Tributaries Existing Conditions

HEC-RAS Plan: Existing (Continued)

River	Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
Tributary 5	Silent Grove N	450	2-Year	2.54	194.20	195.30		195.30	0.000001	0.04	67.60	71.21	0.01
Tributary 5	Silent Grove N	450	10-Year	18.69	194.20	196.62		196.62	0.000004	0.12	178.89	104.98	0.01
Tributary 5	Silent Grove N	450	25-Year	31.57	194.20	197.81		197.81	0.000002	0.12	404.60	247.98	0.01
Tributary 5	Silent Grove N	450	50-Year	41.34	194.20	197.99		197.99	0.000003	0.14	449.87	264.39	0.01
Tributary 5	Silent Grove N	450	100-Year	50.62	194.20	198.10		198.10	0.000004	0.17	480.63	268.52	0.02
Tributary 5	Silent Grove N	450	500-Year	74.64	194.20	198.36		198.36	0.000007	0.22	551.97	275.95	0.02
Tributary 5	Silent Grove N	250	2-Year	2.54	193.80	195.30		195.30	0.000000	0.03	92.16	82.45	0.00
Tributary 5	Silent Grove N	250	10-Year	18.69	193.80	196.62		196.62	0.000002	0.09	226.72	179.47	0.01
Tributary 5	Silent Grove N	250	25-Year	31.57	193.80	197.81		197.81	0.000001	0.09	408.81	275.12	0.01
Tributary 5	Silent Grove N	250	50-Year	41.34	193.80	197.99		197.99	0.000002	0.11	442.28	293.36	0.01
Tributary 5	Silent Grove N	250	100-Year	50.62	193.80	198.10		198.10	0.000003	0.15	488.70	436.22	0.01
Tributary 5	Silent Grove N	250	500-Year	74.64	193.80	198.36		198.36	0.000004	0.18	605.71	457.54	0.02
Tributary 5	Silent Grove N	50	2-Year	2.54	193.20	195.30		195.30	0.000000	0.03	116.72	112.16	0.00
Tributary 5	Silent Grove N	50	10-Year	18.69	193.20	196.62		196.62	0.000002	0.10	321.08	194.83	0.01
Tributary 5	Silent Grove N	50	25-Year	31.57	193.20	197.81		197.81	0.000001	0.10	571.58	298.25	0.01
Tributary 5	Silent Grove N	50	50-Year	41.34	193.20	197.99		197.99	0.000002	0.12	612.15	310.46	0.01
Tributary 5	Silent Grove N	50	100-Year	50.62	193.20	198.10		198.10	0.000003	0.15	667.92	523.28	0.01
Tributary 5	Silent Grove N	50	500-Year	74.64	193.20	198.36		198.36	0.000004	0.19	806.13	533.32	0.01
Tributary 4	Lehn Farm Rd	895	2-Year	30.77	138.00	139.19		139.19	0.000628	0.74	41.79	51.24	0.14
Tributary 4	Lehn Farm Rd	895	10-Year	70.78	138.00	139.50		139.52	0.001156	1.24	58.35	54.68	0.20
Tributary 4	Lehn Farm Rd	895	25-Year	98.04	138.00	139.92		139.94	0.000782	1.25	82.12	59.27	0.18
Tributary 4	Lehn Farm Rd	895	50-Year	119.87	138.00	140.30		140.32	0.000556	1.22	105.22	61.39	0.15
Tributary 4	Lehn Farm Rd	895	100-Year	141.73	138.00	140.62		140.64	0.000460	1.23	125.27	62.69	0.14
Tributary 4	Lehn Farm Rd	895	500-Year	199.96	138.00	141.21		141.24	0.000416	1.36	162.86	65.42	0.14
Tributary 4	Lehn Farm Rd	745	2-Year	30.77	137.60	139.17		139.17	0.000063	0.33	95.57	73.05	0.05
Tributary 4	Lehn Farm Rd	745	10-Year	70.78	137.60	139.46		139.46	0.000179	0.63	116.64	74.16	0.09
Tributary 4	Lehn Farm Rd	745	25-Year	98.04	137.60	139.88		139.89	0.000162	0.70	148.59	75.80	0.08
Tributary 4	Lehn Farm Rd	745	50-Year	119.87	137.60	140.27		140.28	0.000138	0.72	178.52	78.26	0.08
Tributary 4	Lehn Farm Rd	745	100-Year	141.73	137.60	140.60		140.61	0.000127	0.75	204.49	80.69	0.08
Tributary 4	Lehn Farm Rd	745	500-Year	199.96	137.60	141.19		141.20	0.000134	0.87	253.30	84.55	0.08
Tributary 4	Lehn Farm Rd	545	2-Year	30.77	137.60	139.16		139.16	0.000065	0.29	108.72	102.33	0.05
Tributary 4	Lehn Farm Rd	545	10-Year	70.78	137.60	139.42		139.43	0.000171	0.55	136.26	105.77	0.08
Tributary 4	Lehn Farm Rd	545	25-Year	98.04	137.60	139.85		139.86	0.000134	0.58	183.22	111.38	0.07
Tributary 4	Lehn Farm Rd	545	50-Year	119.87	137.60	140.25		140.25	0.000103	0.58	228.39	117.54	0.07
Tributary 4	Lehn Farm Rd	545	100-Year	141.73	137.60	140.58		140.58	0.000090	0.59	268.07	123.32	0.06
Tributary 4	Lehn Farm Rd	545	500-Year	199.96	137.60	141.17		141.18	0.000088	0.67	344.26	136.19	0.07
Tributary 4	Lehn Farm Rd	345	2-Year	30.77	137.40	139.15		139.15	0.000013	0.15	223.45	173.10	0.02
Tributary 4	Lehn Farm Rd	345	10-Year	70.78	137.40	139.41		139.41	0.000040	0.30	268.26	175.82	0.04
Tributary 4	Lehn Farm Rd	345	25-Year	98.04	137.40	139.84		139.85	0.000035	0.32	345.73	180.41	0.04
Tributary 4	Lehn Farm Rd	345	50-Year	119.87	137.40	140.24		140.24	0.000029	0.33	420.17	197.31	0.04
Tributary 4	Lehn Farm Rd	345	100-Year	141.73	137.40	140.57		140.57	0.000027	0.34	488.32	214.93	0.04
Tributary 4	Lehn Farm Rd	345	500-Year	199.96	137.40	141.16		141.16	0.000027	0.39	624.34	242.26	0.04
Tributary 4	Lehn Farm Rd	295	2-Year	30.77	136.30	139.11	137.66	139.14	0.001685	1.77	69.14	268.86	0.19
Tributary 4	Lehn Farm Rd	295	10-Year	70.78	136.30	139.38	138.60	139.40	0.001765	1.93	141.33	273.75	0.19
Tributary 4	Lehn Farm Rd	295	25-Year	98.04	136.30	139.83	139.21	139.84	0.000547	1.18	267.66	282.11	0.11
Tributary 4	Lehn Farm Rd	295	50-Year	119.87	136.30	140.24	139.25	140.24	0.000280	0.90	382.82	293.48	0.08
Tributary 4	Lehn Farm Rd	295	100-Year	141.73	136.30	140.57	139.29	140.57	0.000193	0.79	482.27	305.72	0.07
Tributary 4	Lehn Farm Rd	295	500-Year	199.96	136.30	141.16	139.37	141.16	0.000136	0.72	670.04	326.81	0.06
Tributary 4	Lehn Farm Rd	275.37 Lehn Farms Ln	Culvert										
Tributary 4	Lehn Farm Rd	260	2-Year	30.77	136.20	138.53	137.17	138.54	0.000105	0.48	171.30	226.80	0.06
Tributary 4	Lehn Farm Rd	260	10-Year	70.78	136.20	139.38	137.55	139.38	0.000065	0.49	380.40	261.72	0.05
Tributary 4	Lehn Farm Rd	260	25-Year	98.04	136.20	139.82	137.92	139.82	0.000057	0.50	496.61	271.36	0.05
Tributary 4	Lehn Farm Rd	260	50-Year	119.87	136.20	140.22	138.00	140.22	0.000047	0.50	611.79	300.94	0.05
Tributary 4	Lehn Farm Rd	260	100-Year	141.73	136.20	140.55	138.10	140.55	0.000041	0.49	712.09	320.85	0.04
Tributary 4	Lehn Farm Rd	260	500-Year	199.96	136.20	141.16	138.24	141.16	0.000036	0.51	919.63	353.85	0.04
Tributary 4	Lehn Farm Rd	160	2-Year	30.77	137.00	138.51		138.52	0.000350	0.61	52.19	231.30	0.11
Tributary 4	Lehn Farm Rd	160	10-Year	70.78	137.00	139.37		139.37	0.000150	0.61	233.93	411.24	0.08
Tributary 4	Lehn Farm Rd	160	25-Year	98.04	137.00	139.81		139.81	0.000084	0.52	416.64	417.37	0.06
Tributary 4	Lehn Farm Rd	160	50-Year	119.87	137.00	140.22		140.22	0.000051	0.45	589.84	433.36	0.05
Tributary 4	Lehn Farm Rd	160	100-Year	141.73	137.00	140.54		140.54	0.000038	0.42	731.61	442.51	0.04
Tributary 4	Lehn Farm Rd	160	500-Year	199.96	137.00	141.15		141.16	0.000029	0.42	1009.46	467.87	0.04
Tributary 3B	Rosville Rd	1990	2-Year	23.29	174.80	176.90		176.90	0.000016	0.26	169.40	127.63	0.03
Tributary 3B	Rosville Rd	1990	10-Year	46.43	174.80	177.16		177.16	0.000039	0.43	202.93	132.08	0.05
Tributary 3B	Rosville Rd	1990	25-Year	63.28	174.80	177.29		177.29	0.000058	0.55	220.32	134.69	0.07
Tributary 3B	Rosville Rd	1990	50-Year	73.29	174.80	177.35		177.36	0.000070	0.61	229.25	136.02	0.07
Tributary 3B	Rosville Rd	1990	100-Year	84.98	174.80	177.43		177.44	0.000083	0.68	240.17	137.62	0.08
Tributary 3B	Rosville Rd	1990	500-Year	114.86	174.80	177.63		177.64	0.000113	0.84	267.22	141.51	0.09
Tributary 3B	Rosville Rd	1910	2-Year	23.29	174.20	176.90		176.90	0.000021	0.35	161.91	98.73	0.04
Tributary 3B	Rosville Rd	1910	10-Year	46.43	174.20	177.15		177.16	0.000060	0.64	190.36	121.13	0.07
Tributary 3B	Rosville Rd	1910	25-Year	63.28	174.20	177.28		177.29	0.000091	0.81	205.99	123.57	0.08
Tributary 3B	Rosville Rd	1910	50-Year	73.29	174.20	177.35		177.35	0.000111	0.90	213.97	124.80	0.09
Tributary 3B	Rosville Rd	1910	100-Year	84.98	174.20	177.42		177.43	0.000132	1.01	223.76	126.29	0.10
Tributary 3B	Rosville Rd	1910	500-Year	114.86	174.20	177.61		177.62	0.000183	1.23	248.02	129.91	0.12
Tributary 3B	Rosville Rd	1855	2-Year	23.29	172.20	176.89	173.33	176.90	0.000081	0.59	106.48	78.43	0.05
Tributary 3B	Rosville Rd	1855	10-Year	46.43	172.20	177.14	174.00	177.15	0.000214	0.99	126.83	85.04	0.08

Deadman Brook Tributaries Existing Conditions

HEC-RAS Plan: Existing (Continued)

River	Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
Tributary 3B	Rosville Rd	1855	25-Year	63.28	172.20	177.27	174.40	177.28	0.000328	1.24	137.56	88.80	0.10
Tributary 3B	Rosville Rd	1855	50-Year	73.29	172.20	177.33	174.64	177.34	0.000401	1.38	143.08	90.68	0.11
Tributary 3B	Rosville Rd	1855	100-Year	84.98	172.20	177.40	175.71	177.42	0.000482	1.53	149.96	92.97	0.12
Tributary 3B	Rosville Rd	1855	500-Year	114.86	172.20	177.59	175.94	177.61	0.000675	1.85	167.45	98.55	0.14
Tributary 3B	Rosville Rd	1827.11 Abbotts Ln		Culvert									
Tributary 3B	Rosville Rd	1790	2-Year	23.29	172.10	173.23	173.23	173.80	0.033997	6.05	3.85	3.40	1.00
Tributary 3B	Rosville Rd	1790	10-Year	46.43	172.10	174.16	174.16	174.64	0.017148	5.90	12.54	44.74	0.72
Tributary 3B	Rosville Rd	1790	25-Year	63.28	172.10	174.43	174.43	174.84	0.014526	5.91	26.28	61.86	0.68
Tributary 3B	Rosville Rd	1790	50-Year	73.29	172.10	174.68	174.68	174.93	0.009386	5.08	42.12	76.37	0.56
Tributary 3B	Rosville Rd	1790	100-Year	84.98	172.10	174.74	174.74	175.01	0.010281	5.40	46.74	77.39	0.59
Tributary 3B	Rosville Rd	1790	500-Year	114.86	172.10	174.87	174.87	175.18	0.012337	6.11	56.96	79.60	0.65
Tributary 3B	Rosville Rd	1740	2-Year	23.29	170.40	171.29	171.29	171.61	0.019943	4.56	5.44	10.12	0.98
Tributary 3B	Rosville Rd	1740	10-Year	46.43	170.40	171.69	171.69	172.15	0.015749	5.53	10.66	19.97	0.94
Tributary 3B	Rosville Rd	1740	25-Year	63.28	170.40	171.98	171.98	172.41	0.011665	5.56	18.13	29.12	0.84
Tributary 3B	Rosville Rd	1740	50-Year	73.29	170.40	172.08	172.08	172.54	0.011621	5.82	21.11	30.09	0.85
Tributary 3B	Rosville Rd	1740	100-Year	84.98	170.40	172.19	172.19	172.67	0.011494	6.08	24.50	31.09	0.85
Tributary 3B	Rosville Rd	1740	500-Year	114.86	170.40	172.42	172.42	172.99	0.011712	6.73	32.03	33.21	0.88
Tributary 3B	Rosville Rd	1520	2-Year	23.29	160.40	161.14	161.14	161.33	0.023024	3.55	7.17	25.61	0.97
Tributary 3B	Rosville Rd	1520	10-Year	46.43	160.40	161.37	161.37	161.64	0.018265	4.26	14.57	36.45	0.93
Tributary 3B	Rosville Rd	1520	25-Year	63.28	160.40	161.51	161.51	161.81	0.016957	4.65	19.74	41.49	0.93
Tributary 3B	Rosville Rd	1520	50-Year	73.29	160.40	161.57	161.57	161.90	0.016981	4.90	22.43	43.89	0.94
Tributary 3B	Rosville Rd	1520	100-Year	84.98	160.40	161.64	161.64	162.00	0.016487	5.12	25.88	47.06	0.94
Tributary 3B	Rosville Rd	1520	500-Year	114.86	160.40	161.82	161.82	162.22	0.015645	5.59	34.64	54.97	0.94
Tributary 3B	Rosville Rd	1360	2-Year	23.29	156.00	156.82	156.82	157.03	0.024020	3.68	6.81	20.92	0.99
Tributary 3B	Rosville Rd	1360	10-Year	46.43	156.00	157.09	157.09	157.35	0.016918	4.26	14.89	37.79	0.90
Tributary 3B	Rosville Rd	1360	25-Year	63.28	156.00	157.20	157.20	157.53	0.017748	4.83	19.35	42.01	0.95
Tributary 3B	Rosville Rd	1360	50-Year	73.29	156.00	157.29	157.29	157.62	0.016168	4.94	23.40	50.89	0.92
Tributary 3B	Rosville Rd	1360	100-Year	84.98	156.00	157.41	157.41	157.72	0.012963	4.82	30.45	62.82	0.84
Tributary 3B	Rosville Rd	1360	500-Year	114.86	156.00	157.57	157.57	157.91	0.012634	5.25	41.00	69.97	0.85
Tributary 3B	Rosville Rd	1315	2-Year	23.29	151.80	154.49	152.94	154.59	0.003422	2.55	9.13	3.40	0.27
Tributary 3B	Rosville Rd	1315	10-Year	46.43	151.80	155.95	153.60	156.00	0.001512	2.10	38.49	56.96	0.18
Tributary 3B	Rosville Rd	1315	25-Year	63.28	151.80	156.19	154.00	156.23	0.001436	2.13	53.05	63.90	0.18
Tributary 3B	Rosville Rd	1315	50-Year	73.29	151.80	156.30	154.24	156.35	0.001387	2.13	60.53	66.42	0.18
Tributary 3B	Rosville Rd	1315	100-Year	84.98	151.80	156.33	154.49	156.39	0.001707	2.37	62.61	67.11	0.20
Tributary 3B	Rosville Rd	1315	500-Year	114.86	151.80	156.64	155.89	156.68	0.001369	2.22	84.00	73.79	0.18
Tributary 3B	Rosville Rd	1241.42 Clover Ln		Culvert									
Tributary 3B	Rosville Rd	1185	2-Year	23.29	151.70	152.83	152.83	153.40	0.033986	6.05	3.85	3.40	1.00
Tributary 3B	Rosville Rd	1185	10-Year	46.43	151.70	153.50	153.50	154.39	0.038320	7.60	6.11	3.40	1.00
Tributary 3B	Rosville Rd	1185	25-Year	63.28	151.70	154.37	154.37	154.88	0.016852	6.10	16.66	23.28	0.66
Tributary 3B	Rosville Rd	1185	50-Year	73.29	151.70	154.52	154.52	155.03	0.016591	6.28	20.31	25.21	0.66
Tributary 3B	Rosville Rd	1185	100-Year	84.98	151.70	154.60	154.60	155.19	0.019081	6.86	22.29	26.27	0.71
Tributary 3B	Rosville Rd	1185	500-Year	114.86	151.70	155.20	155.20	155.41	0.007657	4.92	52.96	82.23	0.46
Tributary 3B	Rosville Rd	1135	2-Year	23.29	148.60	149.50	149.50	149.84	0.022697	4.64	5.02	7.63	1.01
Tributary 3B	Rosville Rd	1135	10-Year	46.43	148.60	149.92	149.92	150.37	0.020745	5.42	8.57	9.52	1.01
Tributary 3B	Rosville Rd	1135	25-Year	63.28	148.60	150.13	150.13	150.67	0.019533	5.92	10.76	11.09	1.00
Tributary 3B	Rosville Rd	1135	50-Year	73.29	148.60	150.25	150.25	150.84	0.018487	6.17	12.13	12.21	0.99
Tributary 3B	Rosville Rd	1135	100-Year	84.98	148.60	150.39	150.39	151.02	0.017207	6.40	13.90	13.59	0.98
Tributary 3B	Rosville Rd	1135	500-Year	114.86	148.60	150.78	150.78	151.42	0.012482	6.49	22.57	34.81	0.87
Tributary 3B	Rosville Rd	1030	2-Year	23.29	144.60	145.97	145.97	146.35	0.022727	4.90	4.75	6.49	1.01
Tributary 3B	Rosville Rd	1030	10-Year	46.43	144.60	146.41	146.41	146.98	0.018857	6.05	8.00	8.41	0.99
Tributary 3B	Rosville Rd	1030	25-Year	63.28	144.60	146.68	146.68	147.35	0.016924	6.61	10.47	9.61	0.97
Tributary 3B	Rosville Rd	1030	50-Year	73.29	144.60	146.83	146.83	147.56	0.016368	6.92	11.87	10.23	0.97
Tributary 3B	Rosville Rd	1030	100-Year	84.98	144.60	147.00	147.00	147.78	0.015392	7.19	13.67	10.98	0.96
Tributary 3B	Rosville Rd	1030	500-Year	114.86	144.60	147.35	147.35	148.28	0.014523	7.91	17.78	11.98	0.96
Tributary 3B	Rosville Rd	1010	2-Year	23.29	141.00	143.13	141.87	143.21	0.002194	2.18	10.66	5.00	0.26
Tributary 3B	Rosville Rd	1010	10-Year	46.43	141.00	143.82	142.38	143.99	0.003789	3.29	14.31	6.25	0.34
Tributary 3B	Rosville Rd	1010	25-Year	63.28	141.00	144.19	142.70	144.43	0.004634	3.94	16.86	7.67	0.39
Tributary 3B	Rosville Rd	1010	50-Year	73.29	141.00	144.38	142.88	144.66	0.005073	4.29	18.39	8.41	0.41
Tributary 3B	Rosville Rd	1010	100-Year	84.98	141.00	144.70	143.07	145.01	0.004913	4.49	21.32	9.67	0.41
Tributary 3B	Rosville Rd	1010	500-Year	114.86	141.00	145.48	143.54	145.82	0.004383	4.81	29.86	11.97	0.40
Tributary 3B	Rosville Rd	997.57 Footbridge		Bridge									
Tributary 3B	Rosville Rd	985	2-Year	23.29	141.00	143.07		143.15	0.002374	2.25	10.36	5.00	0.28
Tributary 3B	Rosville Rd	985	10-Year	46.43	141.00	143.70		143.89	0.004371	3.43	13.61	5.89	0.37
Tributary 3B	Rosville Rd	985	25-Year	63.28	141.00	144.03		144.30	0.005496	4.15	15.78	7.31	0.42
Tributary 3B	Rosville Rd	985	50-Year	73.29	141.00	144.20		144.52	0.006129	4.55	17.06	8.03	0.45
Tributary 3B	Rosville Rd	985	100-Year	84.98	141.00	144.37		144.75	0.006848	4.98	18.50	8.78	0.48
Tributary 3B	Rosville Rd	985	500-Year	114.86	141.00	144.76		145.29	0.008463	5.95	22.20	10.44	0.54
Tributary 3B	Rosville Rd	965	2-Year	23.29	141.40	142.54	142.54	142.95	0.018223	5.22	5.16	7.86	0.97
Tributary 3B	Rosville Rd	965	10-Year	46.43	141.40	143.04	143.04	143.62	0.014862	6.34	9.86	10.66	0.94
Tributary 3B	Rosville Rd	965	25-Year	63.28	141.40	143.32	143.32	144.01	0.014258	7.00	12.97	11.66	0.95
Tributary 3B	Rosville Rd	965	50-Year	73.29	141.40	143.47	143.47	144.21	0.013956	7.33	14.77	12.20	0.95
Tributary 3B	Rosville Rd	965	100-Year	84.98	141.40	143.64	143.64	144.44	0.013547	7.66	16.89	12.81	0.95
Tributary 3B	Rosville Rd	965	500-Year	114.86	141.40	144.02	144.02	144.96	0.013088	8.45	22.02	14.41	0.96

Deadman Brook Tributaries Existing Conditions

HEC-RAS Plan: Existing (Continued)

River	Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
Tributary 3B	Rosville Rd	925	2-Year	23.29	139.20	140.20	140.20	140.60	0.019238	5.11	4.93	7.43	0.98
Tributary 3B	Rosville Rd	925	10-Year	46.43	139.20	140.69	140.69	141.27	0.015852	6.27	9.12	9.89	0.96
Tributary 3B	Rosville Rd	925	25-Year	63.28	139.20	140.96	140.96	141.66	0.015047	6.92	12.04	11.30	0.96
Tributary 3B	Rosville Rd	925	50-Year	73.29	139.20	141.12	141.12	141.86	0.014299	7.20	13.95	12.37	0.95
Tributary 3B	Rosville Rd	925	100-Year	84.98	139.20	141.30	141.30	142.09	0.013565	7.47	16.27	13.65	0.94
Tributary 3B	Rosville Rd	925	500-Year	114.86	139.20	141.70	141.70	142.59	0.012346	8.07	22.30	16.51	0.93
Tributary 3B	Rosville Rd	870	2-Year	23.29	134.30	136.58	135.07	136.62	0.001143	1.70	13.66	6.00	0.20
Tributary 3B	Rosville Rd	870	10-Year	46.43	134.30	137.69	135.53	137.77	0.001560	2.29	20.32	6.00	0.22
Tributary 3B	Rosville Rd	870	25-Year	63.28	134.30	138.19	135.82	138.30	0.001922	2.69	24.29	16.14	0.24
Tributary 3B	Rosville Rd	870	50-Year	73.29	134.30	138.31	135.97	138.45	0.002237	2.97	26.73	22.87	0.26
Tributary 3B	Rosville Rd	870	100-Year	84.98	134.30	138.42	136.14	138.58	0.002595	3.26	29.57	27.92	0.28
Tributary 3B	Rosville Rd	870	500-Year	114.86	134.30	138.65	136.55	138.85	0.003328	3.82	36.18	32.33	0.32
Tributary 3B	Rosville Rd	854.72	Footbridge	Culvert									
Tributary 3B	Rosville Rd	840	2-Year	23.29	134.20	135.87	134.98	135.95	0.002341	2.30	10.29	6.61	0.31
Tributary 3B	Rosville Rd	840	10-Year	46.43	134.20	136.19	135.43	136.41	0.005385	3.82	12.50	7.62	0.48
Tributary 3B	Rosville Rd	840	25-Year	63.28	134.20	136.38	135.73	136.71	0.007142	4.68	14.26	10.58	0.56
Tributary 3B	Rosville Rd	840	50-Year	73.29	134.20	136.49	135.88	136.88	0.007882	5.08	15.52	12.11	0.59
Tributary 3B	Rosville Rd	840	100-Year	84.98	134.20	136.60	136.04	137.05	0.008799	5.53	16.86	13.51	0.63
Tributary 3B	Rosville Rd	840	500-Year	114.86	134.20	136.80	136.74	137.41	0.011117	6.55	19.51	25.03	0.72
Tributary 3B	Rosville Rd	830	2-Year	23.29	134.40	135.54	135.54	135.84	0.013623	4.66	5.77	10.14	0.83
Tributary 3B	Rosville Rd	830	10-Year	46.43	134.40	135.92	135.92	136.29	0.011949	5.45	10.43	13.27	0.82
Tributary 3B	Rosville Rd	830	25-Year	63.28	134.40	136.38	136.12	136.59	0.005389	4.43	18.68	24.28	0.58
Tributary 3B	Rosville Rd	830	50-Year	73.29	134.40	136.52	136.31	136.73	0.004553	4.30	21.97	26.54	0.54
Tributary 3B	Rosville Rd	830	100-Year	84.98	134.40	136.66	136.38	136.86	0.004179	4.30	25.06	29.50	0.52
Tributary 3B	Rosville Rd	830	500-Year	114.86	134.40	136.92	136.56	137.15	0.004032	4.57	31.13	35.10	0.52
Tributary 3B	Rosville Rd	805	2-Year	23.29	132.00	134.41	132.94	134.48	0.002100	2.15	10.83	4.50	0.24
Tributary 3B	Rosville Rd	805	10-Year	46.43	132.00	135.65	133.49	135.77	0.002725	2.81	16.87	10.78	0.26
Tributary 3B	Rosville Rd	805	25-Year	63.28	132.00	136.39	133.83	136.45	0.001426	2.30	34.82	36.03	0.19
Tributary 3B	Rosville Rd	805	50-Year	73.29	132.00	136.53	134.01	136.60	0.001374	2.31	40.51	40.52	0.19
Tributary 3B	Rosville Rd	805	100-Year	84.98	132.00	136.67	134.23	136.74	0.001353	2.33	46.37	43.84	0.19
Tributary 3B	Rosville Rd	805	500-Year	114.86	132.00	136.94	134.73	137.01	0.001367	2.44	58.90	48.70	0.19
Tributary 3B	Rosville Rd	788.18	Driveway Bridge	Culvert									
Tributary 3B	Rosville Rd	760	2-Year	23.29	131.90	132.89	132.84	133.31	0.025006	5.23	4.45	4.50	0.93
Tributary 3B	Rosville Rd	760	10-Year	46.43	131.90	133.39	133.39	134.13	0.030972	6.94	6.69	4.50	1.00
Tributary 3B	Rosville Rd	760	25-Year	63.28	131.90	134.16	134.16	134.40	0.007776	4.43	21.67	38.16	0.52
Tributary 3B	Rosville Rd	760	50-Year	73.29	131.90	134.22	134.22	134.47	0.008204	4.63	23.91	39.70	0.54
Tributary 3B	Rosville Rd	760	100-Year	84.98	131.90	134.28	134.28	134.54	0.008769	4.86	26.15	41.18	0.56
Tributary 3B	Rosville Rd	760	500-Year	114.86	131.90	134.41	134.41	134.71	0.009401	5.22	31.89	44.75	0.58
Tributary 3B	Rosville Rd	735	2-Year	23.29	131.40	132.22	132.22	132.63	0.026812	5.15	4.53	5.96	1.00
Tributary 3B	Rosville Rd	735	10-Year	46.43	131.40	132.89	132.89	133.12	0.008310	4.27	15.92	35.27	0.62
Tributary 3B	Rosville Rd	735	25-Year	63.28	131.40	133.04	133.04	133.25	0.007669	4.36	21.75	43.87	0.60
Tributary 3B	Rosville Rd	735	50-Year	73.29	131.40	133.09	133.09	133.32	0.007844	4.50	24.10	44.39	0.61
Tributary 3B	Rosville Rd	735	100-Year	84.98	131.40	133.14	133.14	133.39	0.008184	4.69	26.41	44.89	0.63
Tributary 3B	Rosville Rd	735	500-Year	114.86	131.40	133.25	133.25	133.55	0.009274	5.19	31.11	45.89	0.67
Tributary 3B	Rosville Rd	535	2-Year	23.29	129.60	130.53		130.59	0.004361	2.01	13.42	37.23	0.45
Tributary 3B	Rosville Rd	535	10-Year	46.43	129.60	130.75		130.84	0.004608	2.54	23.65	55.29	0.49
Tributary 3B	Rosville Rd	535	25-Year	63.28	129.60	130.87		130.96	0.004619	2.77	30.41	62.02	0.50
Tributary 3B	Rosville Rd	535	50-Year	73.29	129.60	130.92		131.03	0.004648	2.89	34.01	64.40	0.51
Tributary 3B	Rosville Rd	535	100-Year	84.98	129.60	130.99	130.80	131.10	0.004616	3.00	38.21	67.07	0.51
Tributary 3B	Rosville Rd	535	500-Year	114.86	129.60	131.12	130.90	131.25	0.004662	3.26	47.32	70.65	0.52
Tributary 3B	Rosville Rd	335	2-Year	23.29	128.40	129.24	129.24	129.38	0.008702	3.09	9.61	43.33	0.65
Tributary 3B	Rosville Rd	335	10-Year	46.43	128.40	129.42	129.40	129.58	0.009005	3.67	17.68	46.65	0.69
Tributary 3B	Rosville Rd	335	25-Year	63.28	128.40	129.52	129.50	129.69	0.008987	3.94	22.35	48.47	0.70
Tributary 3B	Rosville Rd	335	50-Year	73.29	128.40	129.57	129.54	129.75	0.008927	4.06	24.93	49.44	0.71
Tributary 3B	Rosville Rd	335	100-Year	84.98	128.40	129.62	129.59	129.82	0.009155	4.25	27.47	50.39	0.72
Tributary 3B	Rosville Rd	335	500-Year	114.86	128.40	129.75	129.70	129.98	0.008879	4.53	34.37	52.86	0.73
Tributary 3B	Rosville Rd	175	2-Year	23.29	126.20	126.97	126.97	127.17	0.024812	3.59	6.75	19.82	1.00
Tributary 3B	Rosville Rd	175	10-Year	46.43	126.20	127.20	127.20	127.49	0.019849	4.38	12.21	26.78	0.97
Tributary 3B	Rosville Rd	175	25-Year	63.28	126.20	127.35	127.35	127.69	0.018078	4.79	16.32	31.15	0.96
Tributary 3B	Rosville Rd	175	50-Year	73.29	126.20	127.42	127.42	127.79	0.017345	4.99	18.77	33.49	0.95
Tributary 3B	Rosville Rd	175	100-Year	84.98	126.20	127.51	127.51	127.90	0.015998	5.14	22.04	36.37	0.93
Tributary 3B	Rosville Rd	175	500-Year	114.86	126.20	127.71	127.71	128.16	0.014681	5.59	30.62	55.24	0.92
Tributary 3A	Roseville Rd	1115	2-Year	13.09	143.40	143.93	143.93	144.12	0.025443	3.49	3.75	10.05	1.01
Tributary 3A	Roseville Rd	1115	10-Year	27.94	143.40	144.18	144.18	144.47	0.021048	4.33	6.66	13.32	0.99
Tributary 3A	Roseville Rd	1115	25-Year	39.00	143.40	144.33	144.33	144.68	0.018996	4.78	8.82	15.40	0.98
Tributary 3A	Roseville Rd	1115	50-Year	45.59	143.40	144.41	144.41	144.80	0.018183	5.01	10.12	16.52	0.97
Tributary 3A	Roseville Rd	1115	100-Year	53.35	143.40	144.51	144.51	144.92	0.017317	5.24	11.68	17.77	0.96
Tributary 3A	Roseville Rd	1115	500-Year	73.57	143.40	144.72	144.72	145.21	0.015773	5.75	15.77	28.84	0.95
Tributary 3A	Roseville Rd	1100	2-Year	13.09	142.20	142.91	142.64	142.98	0.005084	2.15	6.08	9.65	0.48
Tributary 3A	Roseville Rd	1100	10-Year	27.94	142.20	143.27	142.92	143.39	0.005705	2.88	9.72	10.74	0.53
Tributary 3A	Roseville Rd	1100	25-Year	39.00	142.20	143.47	143.08	143.64	0.005964	3.24	12.02	11.37	0.56
Tributary 3A	Roseville Rd	1100	50-Year	45.59	142.20	143.59	143.17	143.77	0.006072	3.43	13.31	11.71	0.57
Tributary 3A	Roseville Rd	1100	100-Year	53.35	142.20	143.71	143.27	143.91	0.006205	3.62	14.73	12.07	0.58
Tributary 3A	Roseville Rd	1100	500-Year	73.57	142.20	143.99	143.51	144.24	0.006313	4.01	18.34	12.95	0.59

Deadman Brook Tributaries Existing Conditions

HEC-RAS Plan: Existing (Continued)

River	Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
Tributary 3A	Roseville Rd	1087.96	Footbridge	Bridge									
Tributary 3A	Roseville Rd	1070	2-Year	13.09	141.00	141.48	141.48	141.66	0.025707	3.43	3.81	10.54	1.01
Tributary 3A	Roseville Rd	1070	10-Year	27.94	141.00	141.73	141.73	141.99	0.022732	4.08	6.84	13.24	1.00
Tributary 3A	Roseville Rd	1070	25-Year	39.00	141.00	141.87	141.87	142.18	0.021858	4.42	8.83	14.75	1.01
Tributary 3A	Roseville Rd	1070	50-Year	45.59	141.00	141.95	141.95	142.27	0.021343	4.57	9.98	15.55	1.01
Tributary 3A	Roseville Rd	1070	100-Year	53.35	141.00	142.02	142.02	142.38	0.021001	4.77	11.18	16.49	1.01
Tributary 3A	Roseville Rd	1070	500-Year	73.57	141.00	142.35	142.35	142.59	0.009427	4.13	21.21	51.50	0.72
Tributary 3A	Roseville Rd	1020	2-Year	13.09	138.40	139.06	139.06	139.29	0.024324	3.82	3.44	8.16	1.01
Tributary 3A	Roseville Rd	1020	10-Year	27.94	138.40	139.36	139.36	139.72	0.019481	4.82	6.21	10.32	0.98
Tributary 3A	Roseville Rd	1020	25-Year	39.00	138.40	139.55	139.55	139.98	0.017740	5.33	8.24	11.65	0.97
Tributary 3A	Roseville Rd	1020	50-Year	45.59	138.40	139.65	139.65	140.12	0.017003	5.58	9.44	12.37	0.97
Tributary 3A	Roseville Rd	1020	100-Year	53.35	138.40	139.76	139.76	140.27	0.016300	5.85	10.85	13.16	0.97
Tributary 3A	Roseville Rd	1020	500-Year	73.57	138.40	140.02	140.02	140.63	0.014938	6.43	14.53	15.06	0.96
Tributary 3A	Roseville Rd	820	2-Year	13.09	133.40	133.99	133.99	134.16	0.025873	3.34	3.92	11.31	1.00
Tributary 3A	Roseville Rd	820	10-Year	27.94	133.40	134.25	134.25	134.49	0.018123	4.01	8.08	25.21	0.92
Tributary 3A	Roseville Rd	820	25-Year	39.00	133.40	134.38	134.38	134.66	0.016875	4.42	11.55	27.62	0.91
Tributary 3A	Roseville Rd	820	50-Year	45.59	133.40	134.44	134.44	134.76	0.016420	4.63	13.50	29.25	0.92
Tributary 3A	Roseville Rd	820	100-Year	53.35	133.40	134.53	134.53	134.85	0.015616	4.82	15.94	31.38	0.91
Tributary 3A	Roseville Rd	820	500-Year	73.57	133.40	134.70	134.70	135.08	0.014684	5.28	21.85	35.32	0.91
Tributary 3A	Roseville Rd	680	2-Year	13.09	130.40	132.13		132.14	0.000332	0.99	16.05	16.36	0.14
Tributary 3A	Roseville Rd	680	10-Year	27.94	130.40	132.52		132.55	0.000596	1.55	23.12	19.84	0.20
Tributary 3A	Roseville Rd	680	25-Year	39.00	130.40	132.78		132.83	0.000678	1.81	28.63	22.17	0.22
Tributary 3A	Roseville Rd	680	50-Year	45.59	130.40	132.88		132.93	0.000774	1.99	30.76	23.01	0.24
Tributary 3A	Roseville Rd	680	100-Year	53.35	130.40	132.98		133.04	0.000884	2.19	33.06	23.88	0.25
Tributary 3A	Roseville Rd	680	500-Year	73.57	130.40	133.18		133.27	0.001186	2.68	38.25	26.72	0.30
Tributary 3A	Roseville Rd	525	2-Year	13.09	131.40	131.80	131.80	131.96	0.026244	3.22	4.07	12.63	1.00
Tributary 3A	Roseville Rd	525	10-Year	27.94	131.40	132.02	132.02	132.26	0.023397	3.90	7.17	15.57	1.00
Tributary 3A	Roseville Rd	525	25-Year	39.00	131.40	132.54		132.62	0.003222	2.38	21.86	42.09	0.42
Tributary 3A	Roseville Rd	525	50-Year	45.59	131.40	132.62		132.71	0.003197	2.50	25.43	46.94	0.43
Tributary 3A	Roseville Rd	525	100-Year	53.35	131.40	132.71		132.80	0.003115	2.60	29.84	52.59	0.43
Tributary 3A	Roseville Rd	525	500-Year	73.57	131.40	132.90		133.00	0.002943	2.79	40.73	61.99	0.42
Tributary 3A	Roseville Rd	505	2-Year	13.09	130.20	131.10	130.80	131.18	0.005490	2.35	5.58	8.24	0.50
Tributary 3A	Roseville Rd	505	10-Year	27.94	130.20	131.69	131.13	131.79	0.003514	2.47	11.31	10.93	0.43
Tributary 3A	Roseville Rd	505	25-Year	39.00	130.20	132.53	131.32	132.57	0.000869	1.73	25.86	29.34	0.23
Tributary 3A	Roseville Rd	505	50-Year	45.59	130.20	132.61	131.42	132.66	0.000993	1.90	28.20	31.80	0.25
Tributary 3A	Roseville Rd	505	100-Year	53.35	130.20	132.69	131.53	132.75	0.001121	2.08	30.97	34.49	0.27
Tributary 3A	Roseville Rd	505	500-Year	73.57	130.20	132.86	131.80	132.95	0.001441	2.51	37.46	46.72	0.31
Tributary 3A	Roseville Rd	492.49	Footbridge	Bridge									
Tributary 3A	Roseville Rd	480	2-Year	13.09	130.20	130.72	130.72	130.91	0.025453	3.48	3.76	10.11	1.01
Tributary 3A	Roseville Rd	480	10-Year	27.94	130.20	130.98	130.98	131.25	0.022645	4.11	6.80	13.03	1.00
Tributary 3A	Roseville Rd	480	25-Year	39.00	130.20	131.12	131.12	131.44	0.020474	4.53	8.70	14.89	0.99
Tributary 3A	Roseville Rd	480	50-Year	45.59	130.20	131.20	131.20	131.54	0.018970	4.70	9.92	16.00	0.97
Tributary 3A	Roseville Rd	480	100-Year	53.35	130.20	131.29	131.29	131.65	0.017628	4.89	11.41	18.09	0.95
Tributary 3A	Roseville Rd	480	500-Year	73.57	130.20	131.50	131.50	131.90	0.014534	5.18	15.80	23.20	0.90
Tributary 3A	Roseville Rd	435	2-Year	13.09	127.80	128.76		128.84	0.007050	2.22	5.89	11.72	0.55
Tributary 3A	Roseville Rd	435	10-Year	27.94	127.80	129.05		129.18	0.007705	2.83	9.87	14.83	0.61
Tributary 3A	Roseville Rd	435	25-Year	39.00	127.80	129.18		129.35	0.008321	3.31	11.84	15.37	0.65
Tributary 3A	Roseville Rd	435	50-Year	45.59	127.80	129.25		129.45	0.008635	3.56	12.90	15.66	0.67
Tributary 3A	Roseville Rd	435	100-Year	53.35	127.80	129.33		129.56	0.008829	3.81	14.14	15.99	0.69
Tributary 3A	Roseville Rd	435	500-Year	73.57	127.80	129.55		129.82	0.008314	4.24	17.71	16.90	0.69
Tributary 3A	Roseville Rd	325	2-Year	13.09	126.40	127.39	127.39	127.66	0.016965	4.38	3.42	7.27	0.89
Tributary 3A	Roseville Rd	325	10-Year	27.94	126.40	127.81	127.81	128.11	0.011873	4.93	7.88	15.08	0.80
Tributary 3A	Roseville Rd	325	25-Year	39.00	126.40	128.02	128.02	128.31	0.010236	5.09	11.43	19.06	0.76
Tributary 3A	Roseville Rd	325	50-Year	45.59	126.40	128.10	128.10	128.41	0.009850	5.21	13.16	19.97	0.76
Tributary 3A	Roseville Rd	325	100-Year	53.35	126.40	128.18	128.18	128.51	0.010028	5.44	14.80	20.80	0.77
Tributary 3A	Roseville Rd	325	500-Year	73.57	126.40	128.34	128.34	128.74	0.011412	6.18	18.05	22.34	0.83
Tributary 3A	Roseville Rd	275	2-Year	13.09	124.20	125.94	124.93	125.97	0.000927	1.33	9.85	8.32	0.22
Tributary 3A	Roseville Rd	275	10-Year	27.94	124.20	126.88	125.34	126.92	0.000644	1.52	19.44	12.12	0.19
Tributary 3A	Roseville Rd	275	25-Year	39.00	124.20	127.51	125.57	127.55	0.000474	1.56	28.61	17.68	0.17
Tributary 3A	Roseville Rd	275	50-Year	45.59	124.20	127.87	125.69	127.91	0.000387	1.54	35.73	21.33	0.16
Tributary 3A	Roseville Rd	275	100-Year	53.35	124.20	128.11	125.83	128.14	0.000389	1.62	40.97	24.37	0.16
Tributary 3A	Roseville Rd	275	500-Year	73.57	124.20	128.43	126.12	128.48	0.000485	1.93	49.84	29.88	0.18
Tributary 3A	Roseville Rd	247.91	Clover Ln	Culvert									
Tributary 3A	Roseville Rd	215	2-Year	13.09	124.10	124.67	124.67	124.85	0.025253	3.41	3.84	10.49	0.99
Tributary 3A	Roseville Rd	215	10-Year	27.94	124.10	124.91	124.91	125.20	0.022069	4.32	6.47	13.66	1.00
Tributary 3A	Roseville Rd	215	25-Year	39.00	124.10	125.05	125.05	125.41	0.020940	4.81	8.11	15.20	1.01
Tributary 3A	Roseville Rd	215	50-Year	45.59	124.10	125.14	125.14	125.53	0.020293	5.04	9.05	15.70	1.01
Tributary 3A	Roseville Rd	215	100-Year	53.35	124.10	125.23	125.23	125.66	0.019671	5.28	10.10	16.26	1.01
Tributary 3A	Roseville Rd	215	500-Year	73.57	124.10	125.45	125.45	125.96	0.018155	5.78	12.73	17.64	1.00
Tributary 3A	Roseville Rd	170	2-Year	13.09	123.60	124.36		124.39	0.001925	1.40	9.97	18.69	0.30
Tributary 3A	Roseville Rd	170	10-Year	27.94	123.60	124.50		124.58	0.004426	2.41	12.72	20.54	0.48
Tributary 3A	Roseville Rd	170	25-Year	39.00	123.60	124.60		124.73	0.005496	2.92	14.98	21.95	0.54
Tributary 3A	Roseville Rd	170	50-Year	45.59	123.60	124.72		124.85	0.004796	2.97	17.68	23.51	0.52
Tributary 3A	Roseville Rd	170	100-Year	53.35	123.60	124.82		124.96	0.004741	3.13	19.96	24.76	0.52

Deadman Brook Tributaries Existing Conditions

HEC-RAS Plan: Existing (Continued)

River	Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
Tributary 3A	Roseville Rd	170	500-Year	73.57	123.60	125.15		125.29	0.003441	3.18	29.25	31.57	0.47
Tributary 3A	Roseville Rd	130	2-Year	13.09	119.80	124.37	120.49	124.37	0.000016	0.32	53.95	23.95	0.03
Tributary 3A	Roseville Rd	130	10-Year	27.94	119.80	124.53	120.95	124.53	0.000059	0.63	57.90	25.28	0.05
Tributary 3A	Roseville Rd	130	25-Year	39.00	119.80	124.65	121.22	124.66	0.000100	0.84	60.98	26.27	0.07
Tributary 3A	Roseville Rd	130	50-Year	45.59	119.80	124.76	121.62	124.77	0.000120	0.93	64.08	27.23	0.07
Tributary 3A	Roseville Rd	130	100-Year	53.35	119.80	124.86	121.72	124.88	0.000147	1.04	66.78	28.05	0.08
Tributary 3A	Roseville Rd	130	500-Year	73.57	119.80	125.19	121.94	125.21	0.000198	1.27	77.22	38.42	0.10
Tributary 3A	Roseville Rd	114.97	Footbridge	Culvert									
Tributary 3A	Roseville Rd	100	2-Year	13.09	119.80	124.37	120.49	124.37	0.000005	0.19	90.50	61.97	0.02
Tributary 3A	Roseville Rd	100	10-Year	27.94	119.80	124.52	120.96	124.53	0.000018	0.35	100.44	63.60	0.03
Tributary 3A	Roseville Rd	100	25-Year	39.00	119.80	124.64	121.50	124.64	0.000029	0.45	107.84	64.79	0.04
Tributary 3A	Roseville Rd	100	50-Year	45.59	119.80	124.76	121.63	124.77	0.000031	0.48	115.90	66.06	0.04
Tributary 3A	Roseville Rd	100	100-Year	53.35	119.80	124.85	121.72	124.86	0.000037	0.52	122.00	67.01	0.04
Tributary 3A	Roseville Rd	100	500-Year	73.57	119.80	125.18	121.94	125.19	0.000043	0.59	144.28	69.40	0.04
Tributary 3A	Roseville Rd	45	2-Year	13.09	121.20	124.37		124.37	0.000001	0.10	203.52	111.48	0.01
Tributary 3A	Roseville Rd	45	10-Year	27.94	121.20	124.52		124.53	0.000005	0.21	221.34	113.54	0.02
Tributary 3A	Roseville Rd	45	25-Year	39.00	121.20	124.64		124.64	0.000009	0.27	234.54	115.05	0.03
Tributary 3A	Roseville Rd	45	50-Year	45.59	121.20	124.76		124.76	0.000010	0.30	248.82	116.65	0.03
Tributary 3A	Roseville Rd	45	100-Year	53.35	121.20	124.86		124.86	0.000012	0.34	259.58	117.85	0.03
Tributary 3A	Roseville Rd	45	500-Year	73.57	121.20	125.18		125.18	0.000016	0.41	298.69	122.00	0.04
Tributary 3	Roseville Rd	1975	2-Year	54.09	120.00	124.37		124.37	0.000004	0.13	346.39	169.47	0.01
Tributary 3	Roseville Rd	1975	10-Year	107.80	120.00	124.52		124.52	0.000013	0.24	373.46	174.70	0.02
Tributary 3	Roseville Rd	1975	25-Year	142.90	120.00	124.64		124.64	0.000019	0.30	393.72	178.56	0.02
Tributary 3	Roseville Rd	1975	50-Year	170.10	120.00	124.76		124.76	0.000023	0.34	415.90	182.91	0.03
Tributary 3	Roseville Rd	1975	100-Year	197.16	120.00	124.85		124.86	0.000027	0.37	432.73	186.15	0.03
Tributary 3	Roseville Rd	1975	500-Year	266.39	120.00	125.18		125.18	0.000033	0.43	497.17	206.43	0.03
Tributary 3	Roseville Rd	1960	2-Year	54.09	118.80	124.37	121.31	124.37	0.000009	0.24	256.85	152.21	0.02
Tributary 3	Roseville Rd	1960	10-Year	107.80	118.80	124.52	122.06	124.52	0.000029	0.43	281.17	159.22	0.03
Tributary 3	Roseville Rd	1960	25-Year	142.90	118.80	124.64	122.30	124.64	0.000042	0.53	299.61	164.41	0.04
Tributary 3	Roseville Rd	1960	50-Year	170.10	118.80	124.76	122.47	124.76	0.000050	0.58	320.07	170.44	0.04
Tributary 3	Roseville Rd	1960	100-Year	197.16	118.80	124.85	122.64	124.85	0.000058	0.64	335.73	174.96	0.05
Tributary 3	Roseville Rd	1960	500-Year	266.39	118.80	125.17	123.04	125.18	0.000072	0.73	399.94	214.79	0.05
Tributary 3	Roseville Rd	1946.17	Driveway Bridge	Culvert									
Tributary 3	Roseville Rd	1930	2-Year	54.09	118.70	124.36	120.86	124.36	0.000019	0.27	196.40	127.96	0.02
Tributary 3	Roseville Rd	1930	10-Year	107.80	118.70	124.48	122.52	124.48	0.000058	0.48	212.22	136.10	0.04
Tributary 3	Roseville Rd	1930	25-Year	142.90	118.70	124.63	122.63	124.64	0.000077	0.56	233.76	146.65	0.04
Tributary 3	Roseville Rd	1930	50-Year	170.10	118.70	124.74	122.73	124.75	0.000090	0.61	250.11	154.52	0.04
Tributary 3	Roseville Rd	1930	100-Year	197.16	118.70	124.83	122.79	124.84	0.000102	0.66	264.76	161.26	0.05
Tributary 3	Roseville Rd	1930	500-Year	266.39	118.70	125.13	123.01	125.15	0.000112	0.72	318.33	189.01	0.05
Tributary 3	Roseville Rd	1895	2-Year	54.09	116.80	124.36		124.36	0.000008	0.24	244.14	117.42	0.02
Tributary 3	Roseville Rd	1895	10-Year	107.80	116.80	124.48		124.48	0.000028	0.44	258.68	126.45	0.03
Tributary 3	Roseville Rd	1895	25-Year	142.90	116.80	124.63		124.63	0.000040	0.53	278.85	138.43	0.03
Tributary 3	Roseville Rd	1895	50-Year	170.10	116.80	124.74		124.74	0.000049	0.60	294.28	146.50	0.04
Tributary 3	Roseville Rd	1895	100-Year	197.16	116.80	124.83		124.84	0.000058	0.65	308.17	153.40	0.04
Tributary 3	Roseville Rd	1895	500-Year	266.39	116.80	125.13		125.14	0.000071	0.74	359.31	181.52	0.05
Tributary 3	Roseville Rd	1860	2-Year	54.09	119.30	124.35	121.03	124.36	0.000087	0.67	113.58	119.97	0.05
Tributary 3	Roseville Rd	1860	10-Year	107.80	119.30	124.46	122.54	124.47	0.000256	1.17	127.15	128.72	0.09
Tributary 3	Roseville Rd	1860	25-Year	142.90	119.30	124.61	122.77	124.63	0.000298	1.29	147.14	139.68	0.10
Tributary 3	Roseville Rd	1860	50-Year	170.10	119.30	124.72	122.92	124.74	0.000318	1.35	162.38	147.28	0.10
Tributary 3	Roseville Rd	1860	100-Year	197.16	119.30	124.81	123.06	124.83	0.000339	1.41	175.99	153.74	0.11
Tributary 3	Roseville Rd	1860	500-Year	266.39	119.30	125.11	123.36	125.13	0.000312	1.40	227.82	189.07	0.10
Tributary 3	Roseville Rd	1820.68	Joann Circle Dr	Bridge									
Tributary 3	Roseville Rd	1795	2-Year	54.09	119.20	121.27	120.44	121.33	0.001583	2.04	26.79	22.05	0.31
Tributary 3	Roseville Rd	1795	10-Year	107.80	119.20	121.78	121.08	121.91	0.002108	2.91	39.29	27.09	0.38
Tributary 3	Roseville Rd	1795	25-Year	142.90	119.20	122.01	121.20	122.18	0.002452	3.40	45.82	29.42	0.41
Tributary 3	Roseville Rd	1795	50-Year	170.10	119.20	122.18	121.25	122.39	0.002601	3.69	51.28	32.26	0.43
Tributary 3	Roseville Rd	1795	100-Year	197.16	119.20	123.54	121.40	123.62	0.000564	2.35	113.31	66.88	0.22
Tributary 3	Roseville Rd	1795	500-Year	266.39	119.20	124.95	121.75	124.98	0.000161	1.56	274.32	157.48	0.12
Tributary 3	Roseville Rd	1745	2-Year	54.09	119.80	121.14		121.21	0.003349	2.23	25.84	45.31	0.42
Tributary 3	Roseville Rd	1745	10-Year	107.80	119.80	121.71		121.78	0.001719	2.24	53.66	52.31	0.33
Tributary 3	Roseville Rd	1745	25-Year	142.90	119.80	121.96		122.03	0.001585	2.39	66.94	55.34	0.32
Tributary 3	Roseville Rd	1745	50-Year	170.10	119.80	122.15		122.23	0.001465	2.47	77.83	58.63	0.32
Tributary 3	Roseville Rd	1745	100-Year	197.16	119.80	123.55		123.58	0.000172	1.23	179.31	84.61	0.12
Tributary 3	Roseville Rd	1745	500-Year	266.39	119.80	124.95		124.96	0.000057	0.90	358.09	203.76	0.07
Tributary 3	Roseville Rd	1590	2-Year	54.09	118.60	121.04		121.06	0.000401	1.29	44.87	32.55	0.17
Tributary 3	Roseville Rd	1590	10-Year	107.80	118.60	121.59		121.63	0.000556	1.80	73.78	104.01	0.20
Tributary 3	Roseville Rd	1590	25-Year	142.90	118.60	121.85		121.89	0.000540	1.89	97.23	128.19	0.20
Tributary 3	Roseville Rd	1590	50-Year	170.10	118.60	122.04		122.09	0.000538	1.98	120.48	168.87	0.21
Tributary 3	Roseville Rd	1590	100-Year	197.16	118.60	123.56		123.56	0.000028	0.60	396.01	192.96	0.05
Tributary 3	Roseville Rd	1590	500-Year	266.39	118.60	124.96		124.96	0.000009	0.42	673.29	200.44	0.03
Tributary 3	Roseville Rd	1440	2-Year	54.09	118.20	121.02		121.02	0.000146	0.95	128.68	108.54	0.10
Tributary 3	Roseville Rd	1440	10-Year	107.80	118.20	121.56		121.58	0.000199	1.26	190.32	117.02	0.13
Tributary 3	Roseville Rd	1440	25-Year	142.90	118.20	121.82		121.83	0.000229	1.43	220.53	120.96	0.14

Deadman Brook Tributaries Existing Conditions

HEC-RAS Plan: Existing (Continued)

River	Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
Tributary 3	Roseville Rd	1440	50-Year	170.10	118.20	122.00		122.02	0.000305	1.71	243.18	166.52	0.16
Tributary 3	Roseville Rd	1440	100-Year	197.16	118.20	123.55		123.56	0.000039	0.78	505.95	172.37	0.06
Tributary 3	Roseville Rd	1440	500-Year	266.39	118.20	124.95		124.96	0.000019	0.65	751.96	179.04	0.04
Tributary 3	Roseville Rd	1315	2-Year	54.09	117.80	120.99	119.16	121.01	0.000324	1.26	59.28	51.72	0.12
Tributary 3	Roseville Rd	1315	10-Year	107.80	117.80	121.53	120.37	121.56	0.000422	1.60	88.80	58.75	0.15
Tributary 3	Roseville Rd	1315	25-Year	142.90	117.80	121.77	120.50	121.81	0.000483	1.79	103.62	61.98	0.16
Tributary 3	Roseville Rd	1315	50-Year	170.10	117.80	121.96	120.61	122.00	0.000509	1.89	115.22	64.39	0.16
Tributary 3	Roseville Rd	1315	100-Year	197.16	117.80	123.55	120.68	123.55	0.000063	0.82	309.11	129.16	0.06
Tributary 3	Roseville Rd	1315	500-Year	266.39	117.80	124.95	120.90	124.95	0.000026	0.62	496.27	136.41	0.04
Tributary 3	Roseville Rd	1279.15 Footbridge		Bridge									
Tributary 3	Roseville Rd	1240	2-Year	54.09	117.80	120.92		120.96	0.000771	1.92	41.86	36.11	0.19
Tributary 3	Roseville Rd	1240	10-Year	107.80	117.80	121.43		121.50	0.001139	2.58	62.22	42.82	0.24
Tributary 3	Roseville Rd	1240	25-Year	142.90	117.80	121.66		121.75	0.001343	2.92	72.39	45.52	0.26
Tributary 3	Roseville Rd	1240	50-Year	170.10	117.80	121.84		121.94	0.001427	3.10	80.64	47.60	0.27
Tributary 3	Roseville Rd	1240	100-Year	197.16	117.80	123.53		123.55	0.000156	1.30	234.29	114.43	0.10
Tributary 3	Roseville Rd	1240	500-Year	266.39	117.80	124.94		124.95	0.000052	0.86	399.98	120.13	0.06
Tributary 3	Roseville Rd	1190	2-Year	54.09	119.00	120.80		120.89	0.002021	2.51	25.28	27.63	0.35
Tributary 3	Roseville Rd	1190	10-Year	107.80	119.00	121.23		121.39	0.002845	3.50	38.93	35.84	0.44
Tributary 3	Roseville Rd	1190	25-Year	142.90	119.00	121.40		121.61	0.003443	4.07	45.39	39.07	0.49
Tributary 3	Roseville Rd	1190	50-Year	170.10	119.00	121.56		121.79	0.003508	4.31	51.93	42.09	0.50
Tributary 3	Roseville Rd	1190	100-Year	197.16	119.00	123.52		123.54	0.000184	1.48	201.24	101.59	0.13
Tributary 3	Roseville Rd	1190	500-Year	266.39	119.00	124.94		124.95	0.000065	1.06	352.94	111.48	0.08
Tributary 3	Roseville Rd	1030	2-Year	54.09	115.87	120.82	117.49	120.83	0.000065	0.85	84.74	64.38	0.07
Tributary 3	Roseville Rd	1030	10-Year	107.80	115.87	121.25	118.02	121.28	0.000165	1.44	103.41	82.52	0.12
Tributary 3	Roseville Rd	1030	25-Year	142.90	115.87	121.42	118.26	121.46	0.000245	1.80	111.06	91.98	0.15
Tributary 3	Roseville Rd	1030	50-Year	170.10	115.87	121.57	118.44	121.62	0.000300	2.04	118.02	100.41	0.16
Tributary 3	Roseville Rd	1030	100-Year	197.16	115.87	123.51	118.61	123.52	0.000048	1.02	489.82	199.17	0.07
Tributary 3	Roseville Rd	1030	500-Year	266.39	115.87	124.94	119.02	124.94	0.000025	0.84	807.20	250.40	0.05
Tributary 3	Roseville Rd	980	2-Year	54.09	115.00	120.82	116.53	120.83	0.000036	0.62	102.80	52.52	0.05
Tributary 3	Roseville Rd	980	10-Year	107.80	115.00	121.25	117.16	121.26	0.000087	1.03	130.92	79.37	0.08
Tributary 3	Roseville Rd	980	25-Year	142.90	115.00	121.42	117.48	121.44	0.000124	1.26	145.14	88.13	0.10
Tributary 3	Roseville Rd	980	50-Year	170.10	115.00	121.57	117.71	121.60	0.000145	1.39	159.12	96.03	0.11
Tributary 3	Roseville Rd	980	100-Year	197.16	115.00	123.51	117.91	123.52	0.000018	0.61	438.12	183.23	0.04
Tributary 3	Roseville Rd	980	500-Year	266.39	115.00	124.94	118.37	124.94	0.000008	0.48	733.53	220.52	0.03
Tributary 3	Roseville Rd	948.47 Joann Circle Dr		Culvert									
Tributary 3	Roseville Rd	920	2-Year	54.09	114.10	118.78	116.08	118.84	0.000819	1.90	28.50	9.68	0.19
Tributary 3	Roseville Rd	920	10-Year	107.80	114.10	119.48	116.98	119.62	0.001619	2.99	41.28	27.09	0.28
Tributary 3	Roseville Rd	920	25-Year	142.90	114.10	119.71	117.44	119.91	0.002237	3.66	48.06	32.27	0.33
Tributary 3	Roseville Rd	920	50-Year	170.10	114.10	120.97	117.75	121.06	0.000813	2.67	119.52	108.66	0.21
Tributary 3	Roseville Rd	920	100-Year	197.16	114.10	123.50	118.04	123.50	0.000019	0.54	850.80	361.69	0.03
Tributary 3	Roseville Rd	920	500-Year	266.39	114.10	124.91	118.68	124.91	0.000008	0.39	1390.94	399.03	0.02
Tributary 3	Roseville Rd	885	2-Year	54.09	115.63	118.76		118.80	0.000698	1.64	32.91	17.21	0.21
Tributary 3	Roseville Rd	885	10-Year	107.80	115.63	119.46		119.55	0.001096	2.34	46.71	28.45	0.27
Tributary 3	Roseville Rd	885	25-Year	142.90	115.63	119.69		119.81	0.001434	2.81	54.61	40.94	0.31
Tributary 3	Roseville Rd	885	50-Year	170.10	115.63	120.96		121.02	0.000442	2.02	117.61	56.32	0.19
Tributary 3	Roseville Rd	885	100-Year	197.16	115.63	123.50		123.50	0.000027	0.71	831.37	313.17	0.05
Tributary 3	Roseville Rd	885	500-Year	266.39	115.63	124.91		124.91	0.000014	0.58	1301.53	352.10	0.04
Tributary 3	Roseville Rd	855	2-Year	54.09	117.20	118.53		118.74	0.007068	3.73	15.24	18.02	0.63
Tributary 3	Roseville Rd	855	10-Year	107.80	117.20	119.35		119.50	0.002766	3.39	40.43	50.29	0.43
Tributary 3	Roseville Rd	855	25-Year	142.90	117.20	119.63		119.76	0.002288	3.38	55.30	56.32	0.40
Tributary 3	Roseville Rd	855	50-Year	170.10	117.20	120.98		121.00	0.000231	1.48	150.16	83.28	0.14
Tributary 3	Roseville Rd	855	100-Year	197.16	117.20	123.50		123.50	0.000006	0.33	802.72	284.18	0.02
Tributary 3	Roseville Rd	855	500-Year	266.39	117.20	124.91		124.91	0.000003	0.27	1231.19	323.83	0.02
Tributary 3	Roseville Rd	835	2-Year	54.09	115.20	118.49	117.38	118.61	0.002893	3.21	20.36	17.31	0.31
Tributary 3	Roseville Rd	835	10-Year	107.80	115.20	119.34	118.30	119.42	0.001748	2.91	55.08	63.92	0.25
Tributary 3	Roseville Rd	835	25-Year	142.90	115.20	119.63	118.71	119.69	0.001362	2.69	73.76	66.42	0.23
Tributary 3	Roseville Rd	835	50-Year	170.10	115.20	120.98	119.17	120.99	0.000175	1.15	175.33	91.78	0.08
Tributary 3	Roseville Rd	835	100-Year	197.16	115.20	123.50	119.25	123.50	0.000005	0.26	828.03	282.33	0.02
Tributary 3	Roseville Rd	835	500-Year	266.39	115.20	124.91	119.42	124.91	0.000003	0.20	1249.24	314.79	0.01
Tributary 3	Roseville Rd	822.62 Footbridge		Bridge									
Tributary 3	Roseville Rd	810	2-Year	54.09	115.20	118.34		118.50	0.003722	3.53	17.73	13.56	0.35
Tributary 3	Roseville Rd	810	10-Year	107.80	115.20	118.69		119.08	0.008501	5.72	23.66	21.54	0.54
Tributary 3	Roseville Rd	810	25-Year	142.90	115.20	118.64	118.64	119.38	0.016319	7.86	22.62	20.25	0.75
Tributary 3	Roseville Rd	810	50-Year	170.10	115.20	120.98		120.98	0.000073	0.74	325.95	235.39	0.05
Tributary 3	Roseville Rd	810	100-Year	197.16	115.20	123.50		123.50	0.000003	0.19	949.86	266.16	0.01
Tributary 3	Roseville Rd	810	500-Year	266.39	115.20	124.91		124.91	0.000002	0.17	1345.70	295.29	0.01
Tributary 3	Roseville Rd	805	2-Year	54.09	116.80	118.01	118.01	118.40	0.018479	5.02	10.94	30.53	0.97
Tributary 3	Roseville Rd	805	10-Year	107.80	116.80	118.53	118.53	119.01	0.012401	5.70	20.50	48.99	0.87
Tributary 3	Roseville Rd	805	25-Year	142.90	116.80	118.92	118.92	119.28	0.007443	5.22	34.58	86.10	0.70
Tributary 3	Roseville Rd	805	50-Year	170.10	116.80	120.98		120.98	0.000061	0.80	334.25	234.93	0.07
Tributary 3	Roseville Rd	805	100-Year	197.16	116.80	123.50		123.50	0.000003	0.25	953.41	262.87	0.02
Tributary 3	Roseville Rd	805	500-Year	266.39	116.80	124.91		124.91	0.000002	0.22	1343.51	289.81	0.01
Tributary 3	Roseville Rd	760	2-Year	54.09	116.00	118.07		118.11	0.000844	1.77	33.19	59.36	0.24

Deadman Brook Tributaries Existing Conditions

HEC-RAS Plan: Existing (Continued)

River	Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
Tributary 3	Roseville Rd	760	10-Year	107.80	116.00	118.46		118.57	0.001507	2.71	44.49	120.26	0.33
Tributary 3	Roseville Rd	760	25-Year	142.90	116.00	118.90		119.01	0.001281	2.83	65.03	162.53	0.31
Tributary 3	Roseville Rd	760	50-Year	170.10	116.00	120.98		120.98	0.000016	0.47	499.49	223.48	0.04
Tributary 3	Roseville Rd	760	100-Year	197.16	116.00	123.50		123.50	0.000002	0.21	1092.03	248.20	0.01
Tributary 3	Roseville Rd	760	500-Year	266.39	116.00	124.91		124.91	0.000001	0.20	1459.27	271.98	0.01
Tributary 3	Roseville Rd	740	2-Year	54.09	116.20	118.05	117.21	118.06	0.000204	0.81	76.47	74.37	0.11
Tributary 3	Roseville Rd	740	10-Year	107.80	116.20	118.46	117.39	118.48	0.000280	1.11	107.58	78.12	0.14
Tributary 3	Roseville Rd	740	25-Year	142.90	116.20	118.92	117.48	118.93	0.000198	1.08	144.35	82.33	0.12
Tributary 3	Roseville Rd	740	50-Year	170.10	116.20	120.97	117.55	120.98	0.000021	0.53	364.58	140.58	0.04
Tributary 3	Roseville Rd	740	100-Year	197.16	116.20	123.50	117.61	123.50	0.000003	0.28	775.66	178.01	0.02
Tributary 3	Roseville Rd	740	500-Year	266.39	116.20	124.91	117.75	124.91	0.000003	0.28	1044.58	203.40	0.02
Tributary 3	Roseville Rd	715	2-Year	54.09	114.60	118.03	116.90	118.05	0.000496	1.40	49.20	46.07	0.13
Tributary 3	Roseville Rd	715	10-Year	107.80	114.60	118.42	117.33	118.46	0.000831	1.95	69.25	56.90	0.18
Tributary 3	Roseville Rd	715	25-Year	142.90	114.60	118.89	117.53	118.92	0.000579	1.76	99.02	69.95	0.15
Tributary 3	Roseville Rd	715	50-Year	170.10	114.60	120.97	117.68	120.98	0.000043	0.62	298.06	132.11	0.04
Tributary 3	Roseville Rd	715	100-Year	197.16	114.60	123.50	117.81	123.50	0.000005	0.27	664.30	159.02	0.02
Tributary 3	Roseville Rd	715	500-Year	266.39	114.60	124.91	118.02	124.91	0.000004	0.25	904.92	177.94	0.01
Tributary 3	Roseville Rd	699.93	Driveway Bridge	Culvert									
Tributary 3	Roseville Rd	680	2-Year	54.09	114.50	117.20	116.28	117.39	0.006776	3.94	19.49	64.96	0.42
Tributary 3	Roseville Rd	680	10-Year	107.80	114.50	117.69		117.77	0.003112	2.99	48.98	94.95	0.29
Tributary 3	Roseville Rd	680	25-Year	142.90	114.50	118.86		118.87	0.000148	0.80	200.19	154.73	0.07
Tributary 3	Roseville Rd	680	50-Year	170.10	114.50	120.97		120.98	0.000009	0.26	549.30	173.26	0.02
Tributary 3	Roseville Rd	680	100-Year	197.16	114.50	123.47		123.48	0.000002	0.14	1001.35	190.23	0.01
Tributary 3	Roseville Rd	680	500-Year	266.39	114.50	124.90		124.90	0.000002	0.15	1282.35	203.10	0.01
Tributary 3	Roseville Rd	640	2-Year	54.09	115.60	117.19		117.22	0.001002	1.57	71.35	111.61	0.25
Tributary 3	Roseville Rd	640	10-Year	107.80	115.60	117.64		117.68	0.001038	1.96	123.05	118.11	0.26
Tributary 3	Roseville Rd	640	25-Year	142.90	115.60	118.85		118.86	0.000204	1.23	280.85	144.48	0.13
Tributary 3	Roseville Rd	640	50-Year	170.10	115.60	120.97		120.98	0.000032	0.70	621.74	172.93	0.05
Tributary 3	Roseville Rd	640	100-Year	197.16	115.60	123.47		123.47	0.000009	0.48	1089.26	199.12	0.03
Tributary 3	Roseville Rd	640	500-Year	266.39	115.60	124.90		124.90	0.000008	0.52	1382.41	211.24	0.03
Tributary 3	Roseville Rd	590	2-Year	54.09	115.80	116.78	116.78	117.07	0.022136	4.30	12.58	22.27	1.01
Tributary 3	Roseville Rd	590	10-Year	107.80	115.80	117.14	117.14	117.52	0.018312	4.98	22.29	36.79	0.97
Tributary 3	Roseville Rd	590	25-Year	142.90	115.80	118.81	117.32	118.84	0.000470	1.68	168.85	136.26	0.19
Tributary 3	Roseville Rd	590	50-Year	170.10	115.80	120.97	117.44	120.97	0.000044	0.78	496.81	175.07	0.06
Tributary 3	Roseville Rd	590	100-Year	197.16	115.80	123.47	117.55	123.47	0.000010	0.51	909.36	193.46	0.03
Tributary 3	Roseville Rd	590	500-Year	266.39	115.80	124.90	117.79	124.90	0.000009	0.52	1257.48	201.43	0.03
Tributary 3	Roseville Rd	550	2-Year	54.09	111.00	114.43	112.78	114.52	0.001810	2.44	22.12	10.03	0.29
Tributary 3	Roseville Rd	550	10-Year	107.80	111.00	116.50	113.58	116.60	0.000973	2.53	42.60	15.97	0.21
Tributary 3	Roseville Rd	550	25-Year	142.90	111.00	118.77	113.99	118.82	0.000356	1.96	125.49	108.26	0.13
Tributary 3	Roseville Rd	550	50-Year	170.10	111.00	120.95	114.27	120.97	0.000092	1.21	323.64	137.87	0.07
Tributary 3	Roseville Rd	550	100-Year	197.16	111.00	123.47	114.50	123.47	0.000029	0.80	576.54	154.36	0.04
Tributary 3	Roseville Rd	550	500-Year	266.39	111.00	124.90	115.01	124.90	0.000016	0.66	1037.37	161.24	0.03
Tributary 3	Roseville Rd	497.46	Roseville Rd	Culvert									
Tributary 3	Roseville Rd	430	2-Year	54.09	110.90	113.57	112.21	113.65	0.001684	2.33	26.44	21.85	0.27
Tributary 3	Roseville Rd	430	10-Year	107.80	110.90	114.18	112.81	114.37	0.002947	3.59	36.53	28.00	0.37
Tributary 3	Roseville Rd	430	25-Year	142.90	110.90	114.47	113.15	114.74	0.003676	4.27	41.95	30.97	0.42
Tributary 3	Roseville Rd	430	50-Year	170.10	110.90	114.66	113.39	114.99	0.004238	4.76	45.64	32.88	0.45
Tributary 3	Roseville Rd	430	100-Year	197.16	110.90	114.90	113.61	115.14	0.003043	4.16	70.16	35.30	0.39
Tributary 3	Roseville Rd	430	500-Year	266.39	110.90	115.33	114.12	115.63	0.003551	4.84	85.87	38.57	0.43
Tributary 3	Roseville Rd	380	2-Year	54.09	112.00	112.99	112.99	113.34	0.032519	4.77	11.55	18.10	0.99
Tributary 3	Roseville Rd	380	10-Year	107.80	112.00	113.42	113.42	113.94	0.025963	5.82	20.46	23.27	0.96
Tributary 3	Roseville Rd	380	25-Year	142.90	112.00	113.65	113.65	114.25	0.024213	6.34	26.06	26.00	0.95
Tributary 3	Roseville Rd	380	50-Year	170.10	112.00	113.81	113.81	114.47	0.022985	6.65	30.48	27.97	0.94
Tributary 3	Roseville Rd	380	100-Year	197.16	112.00	113.96	113.96	114.67	0.022111	6.94	34.82	29.77	0.94
Tributary 3	Roseville Rd	380	500-Year	266.39	112.00	114.31	114.31	115.12	0.020489	7.56	45.69	33.26	0.93
Tributary 3	Roseville Rd	195	2-Year	54.09	110.60	112.90		112.91	0.000241	0.71	82.41	63.27	0.10
Tributary 3	Roseville Rd	195	10-Year	107.80	110.60	113.28		113.30	0.000464	1.14	107.29	67.33	0.14
Tributary 3	Roseville Rd	195	25-Year	142.90	110.60	113.48		113.50	0.000585	1.36	120.82	68.78	0.16
Tributary 3	Roseville Rd	195	50-Year	170.10	110.60	113.61		113.65	0.000671	1.51	130.30	69.78	0.17
Tributary 3	Roseville Rd	195	100-Year	197.16	110.60	113.74		113.78	0.000754	1.66	138.91	70.68	0.19
Tributary 3	Roseville Rd	195	500-Year	266.39	110.60	114.02		114.08	0.000938	1.99	159.26	72.79	0.21
Tributary 3	Roseville Rd	145	2-Year	54.09	108.00	112.89	111.18	112.89	0.000233	0.61	139.34	77.34	0.05
Tributary 3	Roseville Rd	145	10-Year	107.80	108.00	113.26	111.60	113.27	0.000494	0.93	183.54	79.40	0.07
Tributary 3	Roseville Rd	145	25-Year	142.90	108.00	113.45	111.79	113.46	0.000678	1.12	199.03	80.33	0.08
Tributary 3	Roseville Rd	145	50-Year	170.10	108.00	113.59	111.92	113.60	0.000818	1.25	209.78	80.97	0.09
Tributary 3	Roseville Rd	145	100-Year	197.16	108.00	113.71	112.00	113.72	0.000958	1.37	219.48	81.55	0.10
Tributary 3	Roseville Rd	145	500-Year	266.39	108.00	113.98	112.00	114.00	0.001295	1.65	242.22	82.89	0.12
Tributary 3	Roseville Rd	127.47	Stone Dam	Bridge									
Tributary 3	Roseville Rd	110	2-Year	54.09	104.00	107.45	107.45	108.00	0.030309	7.09	13.72	13.33	0.67
Tributary 3	Roseville Rd	110	10-Year	107.80	104.00	108.16	108.16	108.79	0.034231	8.55	25.34	19.24	0.74
Tributary 3	Roseville Rd	110	25-Year	142.90	104.00	108.48	108.48	109.14	0.035865	9.19	31.94	22.04	0.77
Tributary 3	Roseville Rd	110	50-Year	170.10	104.00	108.66	108.66	109.38	0.038620	9.79	36.04	23.61	0.80
Tributary 3	Roseville Rd	110	100-Year	197.16	104.00	108.85	108.85	109.58	0.039411	10.15	40.62	25.25	0.81
Tributary 3	Roseville Rd	110	500-Year	266.39	104.00	109.24	109.24	110.04	0.042073	11.04	51.07	28.47	0.85

Deadman Brook Tributaries Existing Conditions

HEC-RAS Plan: Existing (Continued)

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
Tributary 3	Roseville Rd	60	2-Year	54.09	101.40	102.15	102.15	102.43	0.021403	4.25	12.82	23.75	0.99
Tributary 3	Roseville Rd	60	10-Year	107.80	101.40	102.48	102.48	102.92	0.018384	5.34	21.07	26.63	0.99
Tributary 3	Roseville Rd	60	25-Year	142.90	101.40	102.67	102.67	103.19	0.017110	5.84	26.13	28.26	0.99
Tributary 3	Roseville Rd	60	50-Year	170.10	101.40	102.80	102.80	103.38	0.016373	6.16	29.94	29.42	0.99
Tributary 3	Roseville Rd	60	100-Year	197.16	101.40	102.92	102.92	103.56	0.015717	6.45	33.69	30.52	0.98
Tributary 3	Roseville Rd	60	500-Year	266.39	101.40	103.32	103.21	103.98	0.011740	6.62	46.25	32.78	0.89
Tributary 2	Deerwood Ln	250	2-Year	15.58	93.61	95.10	94.54	95.17	0.003831	2.11	7.66	7.69	0.36
Tributary 2	Deerwood Ln	250	10-Year	39.45	93.61	95.48	95.03	95.71	0.008636	3.88	11.68	14.85	0.57
Tributary 2	Deerwood Ln	250	25-Year	56.27	93.61	95.67	95.33	96.01	0.011298	4.81	14.82	19.27	0.66
Tributary 2	Deerwood Ln	250	50-Year	69.40	93.61	95.76	95.58	96.21	0.013927	5.53	16.68	21.48	0.74
Tributary 2	Deerwood Ln	250	100-Year	83.00	93.61	95.89	95.79	96.40	0.014927	6.01	19.67	24.60	0.78
Tributary 2	Deerwood Ln	250	500-Year	119.79	93.61	96.21	96.21	96.84	0.015819	6.88	28.93	32.71	0.82
Tributary 2	Deerwood Ln	200	2-Year	15.58	94.00	94.54	94.54	94.70	0.044418	3.16	4.93	35.18	1.00
Tributary 2	Deerwood Ln	200	10-Year	39.45	94.00	94.80	94.80	94.97	0.028489	3.56	16.24	54.36	0.88
Tributary 2	Deerwood Ln	200	25-Year	56.27	94.00	94.90	94.90	95.10	0.029731	4.01	21.47	56.34	0.92
Tributary 2	Deerwood Ln	200	50-Year	69.40	94.00	94.98	94.98	95.19	0.027025	4.12	26.31	58.12	0.89
Tributary 2	Deerwood Ln	200	100-Year	83.00	94.00	95.02	95.02	95.27	0.031590	4.59	28.39	58.82	0.97
Tributary 2	Deerwood Ln	200	500-Year	119.79	94.00	95.16	95.16	95.47	0.031809	5.22	36.95	61.44	1.00
Tributary 2	Deerwood Ln	50	2-Year	15.58	87.40	88.64		88.64	0.000068	0.30	52.00	46.27	0.05
Tributary 2	Deerwood Ln	50	10-Year	39.45	87.40	89.67		89.68	0.000052	0.40	102.34	50.72	0.05
Tributary 2	Deerwood Ln	50	25-Year	56.27	87.40	90.23		90.24	0.000050	0.46	131.46	53.93	0.05
Tributary 2	Deerwood Ln	50	50-Year	69.40	87.40	90.76		90.76	0.000042	0.47	161.01	58.63	0.05
Tributary 2	Deerwood Ln	50	100-Year	83.00	87.40	91.25		91.25	0.000037	0.49	190.97	64.37	0.04
Tributary 2	Deerwood Ln	50	500-Year	119.79	87.40	92.47		92.47	0.000029	0.52	281.46	84.00	0.04
Tributary 1	N Compo Rd	1920	2-Year	50.13	85.20	86.34		86.41	0.003169	2.28	24.46	41.80	0.42
Tributary 1	N Compo Rd	1920	10-Year	119.29	85.20	86.88		86.97	0.002388	2.69	54.52	68.51	0.39
Tributary 1	N Compo Rd	1920	25-Year	166.55	85.20	87.15		87.23	0.001924	2.70	78.96	111.62	0.36
Tributary 1	N Compo Rd	1920	50-Year	204.67	85.20	87.32		87.40	0.001608	2.63	99.23	121.16	0.33
Tributary 1	N Compo Rd	1920	100-Year	242.86	85.20	87.49		87.56	0.001354	2.55	119.87	130.16	0.31
Tributary 1	N Compo Rd	1920	500-Year	346.63	85.20	87.87		87.94	0.000982	2.43	173.79	151.15	0.27
Tributary 1	N Compo Rd	1870	2-Year	50.13	84.80	86.20		86.27	0.002644	2.42	24.31	34.59	0.39
Tributary 1	N Compo Rd	1870	10-Year	119.29	84.80	86.73		86.85	0.002744	3.16	46.38	48.55	0.43
Tributary 1	N Compo Rd	1870	25-Year	166.55	84.80	86.97		87.12	0.002829	3.51	59.10	55.01	0.44
Tributary 1	N Compo Rd	1870	50-Year	204.67	84.80	87.13		87.29	0.002900	3.74	67.97	57.54	0.45
Tributary 1	N Compo Rd	1870	100-Year	242.86	84.80	87.29		87.46	0.002867	3.90	77.04	59.71	0.46
Tributary 1	N Compo Rd	1870	500-Year	346.63	84.80	87.64		87.85	0.002851	4.29	99.21	64.70	0.47
Tributary 1	N Compo Rd	1715	2-Year	50.13	84.00	85.20	85.20	85.49	0.012941	4.61	13.55	26.37	0.84
Tributary 1	N Compo Rd	1715	10-Year	119.29	84.00	85.67	85.67	86.06	0.011559	5.71	29.43	40.83	0.85
Tributary 1	N Compo Rd	1715	25-Year	166.55	84.00	85.89	85.89	86.33	0.011188	6.20	39.28	47.64	0.85
Tributary 1	N Compo Rd	1715	50-Year	204.67	84.00	86.06	86.06	86.51	0.010308	6.35	47.80	52.13	0.83
Tributary 1	N Compo Rd	1715	100-Year	242.86	84.00	86.16	86.16	86.67	0.010915	6.78	53.20	54.02	0.87
Tributary 1	N Compo Rd	1715	500-Year	346.63	84.00	86.46	86.46	87.05	0.010737	7.40	69.89	59.51	0.88
Tributary 1	N Compo Rd	1530	2-Year	50.13	80.80	82.75		82.81	0.001277	2.07	27.90	27.57	0.29
Tributary 1	N Compo Rd	1530	10-Year	119.29	80.80	83.12		83.29	0.003010	3.64	39.85	38.21	0.46
Tributary 1	N Compo Rd	1530	25-Year	166.55	80.80	83.30		83.54	0.003880	4.38	46.85	40.99	0.52
Tributary 1	N Compo Rd	1530	50-Year	204.67	80.80	83.41		83.71	0.004554	4.91	51.64	42.79	0.57
Tributary 1	N Compo Rd	1530	100-Year	242.86	80.80	83.51		83.86	0.005188	5.39	56.02	44.37	0.62
Tributary 1	N Compo Rd	1530	500-Year	346.63	80.80	83.74		84.24	0.006762	6.54	66.43	47.92	0.71
Tributary 1	N Compo Rd	1475	2-Year	50.13	78.50	82.72	81.67	82.73	0.000813	1.23	48.32	71.76	0.11
Tributary 1	N Compo Rd	1475	10-Year	119.29	78.50	83.10	82.19	83.14	0.001025	1.47	77.93	81.78	0.12
Tributary 1	N Compo Rd	1475	25-Year	166.55	78.50	83.29	82.62	83.34	0.001110	1.57	94.08	87.68	0.13
Tributary 1	N Compo Rd	1475	50-Year	204.67	78.50	83.42	82.70	83.48	0.001171	1.64	105.46	91.48	0.13
Tributary 1	N Compo Rd	1475	100-Year	242.86	78.50	83.54	82.77	83.61	0.001223	1.70	115.86	94.89	0.13
Tributary 1	N Compo Rd	1475	500-Year	346.63	78.50	83.81	82.96	83.90	0.001297	1.82	143.40	103.07	0.14
Tributary 1	N Compo Rd	1450.16	Driveway Bridge	Culvert									
Tributary 1	N Compo Rd	1430	2-Year	50.13	78.40	80.51	80.51	80.90	0.020854	5.26	9.99	12.31	0.64
Tributary 1	N Compo Rd	1430	10-Year	119.29	78.40	81.16	81.16	81.76	0.017828	5.48	19.30	43.62	0.58
Tributary 1	N Compo Rd	1430	25-Year	166.55	78.40	81.81	81.81	82.05	0.012573	5.31	45.44	83.23	0.51
Tributary 1	N Compo Rd	1430	50-Year	204.67	78.40	81.89	81.89	82.15	0.012945	5.46	51.47	83.88	0.52
Tributary 1	N Compo Rd	1430	100-Year	242.86	78.40	81.94	81.94	82.25	0.013779	5.70	56.30	84.41	0.53
Tributary 1	N Compo Rd	1430	500-Year	346.63	78.40	82.10	82.10	82.49	0.014510	6.02	69.81	87.16	0.55
Tributary 1	N Compo Rd	1360	2-Year	50.13	76.80	78.10	78.10	78.38	0.012072	4.74	13.00	23.80	0.82
Tributary 1	N Compo Rd	1360	10-Year	119.29	76.80	78.56	78.56	78.93	0.011135	5.81	26.62	35.51	0.84
Tributary 1	N Compo Rd	1360	25-Year	166.55	76.80	78.76	78.76	79.19	0.011123	6.33	34.53	40.79	0.84
Tributary 1	N Compo Rd	1360	50-Year	204.67	76.80	78.91	78.91	79.37	0.010812	6.60	40.94	44.63	0.85
Tributary 1	N Compo Rd	1360	100-Year	242.86	76.80	79.05	79.05	79.53	0.010490	6.81	47.10	47.43	0.85
Tributary 1	N Compo Rd	1360	500-Year	346.63	76.80	79.32	79.32	79.89	0.010444	7.41	60.73	51.05	0.87
Tributary 1	N Compo Rd	1320	2-Year	50.13	74.00	75.67	75.10	75.85	0.005000	3.45	14.52	10.42	0.52
Tributary 1	N Compo Rd	1320	10-Year	119.29	74.00	77.18	75.88	77.28	0.001279	2.76	53.58	40.44	0.29
Tributary 1	N Compo Rd	1320	25-Year	166.55	74.00	77.60	76.51	77.70	0.001174	2.90	71.10	43.91	0.28
Tributary 1	N Compo Rd	1320	50-Year	204.67	74.00	77.79	76.74	77.91	0.001303	3.18	79.58	45.49	0.30
Tributary 1	N Compo Rd	1320	100-Year	242.86	74.00	77.96	76.96	78.10	0.001412	3.42	87.51	46.92	0.32
Tributary 1	N Compo Rd	1320	500-Year	346.63	74.00	78.23	77.30	78.44	0.002060	4.32	100.56	52.62	0.39
Tributary 1	N Compo Rd	1310.5	Footbridge	Bridge									

Deadman Brook Tributaries Existing Conditions

HEC-RAS Plan: Existing (Continued)

River	Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
Tributary 1	N Compo Rd	1300	2-Year	50.13	74.00	75.35		75.66	0.010396	4.45	11.27	9.70	0.73
Tributary 1	N Compo Rd	1300	10-Year	119.29	74.00	75.86	75.86	76.67	0.019420	7.22	16.53	10.73	1.02
Tributary 1	N Compo Rd	1300	25-Year	166.55	74.00	76.49	76.49	77.12	0.010585	6.58	28.38	25.13	0.79
Tributary 1	N Compo Rd	1300	50-Year	204.67	74.00	76.73	76.73	77.38	0.009829	6.81	34.95	29.07	0.78
Tributary 1	N Compo Rd	1300	100-Year	242.86	74.00	76.94	76.94	77.60	0.009251	6.99	41.42	32.49	0.77
Tributary 1	N Compo Rd	1300	500-Year	346.63	74.00	77.40	77.40	78.08	0.008275	7.38	58.09	45.85	0.75
Tributary 1	N Compo Rd	1250	2-Year	50.13	73.60	74.72	74.72	75.06	0.014320	4.78	12.85	28.48	0.88
Tributary 1	N Compo Rd	1250	10-Year	119.29	73.60	75.27	75.27	75.74	0.012295	6.05	31.29	37.49	0.88
Tributary 1	N Compo Rd	1250	25-Year	166.55	73.60	75.52	75.52	76.08	0.012540	6.78	41.06	40.77	0.91
Tributary 1	N Compo Rd	1250	50-Year	204.67	73.60	75.69	75.69	76.32	0.012623	7.26	48.51	43.11	0.93
Tributary 1	N Compo Rd	1250	100-Year	242.86	73.60	75.87	75.87	76.53	0.012263	7.60	56.43	45.46	0.93
Tributary 1	N Compo Rd	1250	500-Year	346.63	73.60	76.26	76.26	77.07	0.012456	8.60	75.64	53.09	0.96
Tributary 1	N Compo Rd	1110	2-Year	50.13	70.40	71.21	71.21	71.46	0.019126	4.06	14.31	37.84	0.94
Tributary 1	N Compo Rd	1110	10-Year	119.29	70.40	71.60	71.60	71.99	0.016403	5.30	32.75	55.04	0.95
Tributary 1	N Compo Rd	1110	25-Year	166.55	70.40	71.84	71.84	72.27	0.013922	5.66	48.41	74.79	0.91
Tributary 1	N Compo Rd	1110	50-Year	204.67	70.40	72.00	72.00	72.45	0.012844	5.91	61.14	84.39	0.89
Tributary 1	N Compo Rd	1110	100-Year	242.86	70.40	72.12	72.12	72.61	0.012834	6.25	71.45	87.99	0.90
Tributary 1	N Compo Rd	1110	500-Year	346.63	70.40	72.40	72.40	72.98	0.012855	7.02	97.30	96.32	0.93
Tributary 1	N Compo Rd	1065	2-Year	50.13	66.93	69.92	68.53	69.98	0.000969	2.06	38.36	42.59	0.24
Tributary 1	N Compo Rd	1065	10-Year	119.29	66.93	70.24	69.52	70.46	0.003083	4.01	53.81	54.34	0.44
Tributary 1	N Compo Rd	1065	25-Year	166.55	66.93	70.26	69.92	70.66	0.005885	5.56	54.46	54.80	0.61
Tributary 1	N Compo Rd	1065	50-Year	204.67	66.93	70.17	70.17	70.87	0.010410	7.23	49.69	51.34	0.81
Tributary 1	N Compo Rd	1065	100-Year	242.86	66.93	70.40	70.40	71.11	0.009809	7.45	62.61	60.25	0.80
Tributary 1	N Compo Rd	1065	500-Year	346.63	66.93	70.87	70.87	71.62	0.009299	8.08	95.49	78.50	0.80
Tributary 1	N Compo Rd	1040.94 Driveway Bridge		Culvert									
Tributary 1	N Compo Rd	1025	2-Year	50.13	65.25	66.64	66.64	67.08	0.020619	5.34	9.38	11.64	1.01
Tributary 1	N Compo Rd	1025	10-Year	119.29	65.25	67.33	67.33	68.10	0.018004	7.08	16.85	15.05	1.00
Tributary 1	N Compo Rd	1025	25-Year	166.55	65.25	67.65	67.65	68.42	0.016830	7.03	23.86	15.87	0.98
Tributary 1	N Compo Rd	1025	50-Year	204.67	65.25	68.31	68.31	68.59	0.005116	4.75	59.91	96.06	0.56
Tributary 1	N Compo Rd	1025	100-Year	242.86	65.25	68.39	68.39	68.69	0.005507	5.03	67.77	98.53	0.58
Tributary 1	N Compo Rd	1025	500-Year	346.63	65.25	68.57	68.57	68.91	0.006197	5.58	86.57	104.20	0.62
Tributary 1	N Compo Rd	990	2-Year	50.13	64.20	66.65	65.75	66.72	0.001475	2.50	25.02	51.56	0.28
Tributary 1	N Compo Rd	990	10-Year	119.29	64.20	67.28	66.58	67.43	0.002166	3.53	39.72	60.32	0.35
Tributary 1	N Compo Rd	990	25-Year	166.55	64.20	67.79	66.82	67.83	0.000477	1.84	113.71	70.06	0.17
Tributary 1	N Compo Rd	990	50-Year	204.67	64.20	68.08	67.00	68.11	0.000462	1.90	134.60	76.69	0.17
Tributary 1	N Compo Rd	990	100-Year	242.86	64.20	67.47	67.17	67.58	0.001803	3.35	92.18	63.88	0.33
Tributary 1	N Compo Rd	990	500-Year	346.63	64.20	67.58	67.40	67.78	0.002988	4.41	99.39	66.01	0.42
Tributary 1	N Compo Rd	977.31 Footbridge		Bridge									
Tributary 1	N Compo Rd	955	2-Year	50.13	64.20	65.12	65.12	65.38	0.017911	4.23	12.41	32.30	0.92
Tributary 1	N Compo Rd	955	10-Year	119.29	64.20	65.52	65.52	65.99	0.016621	5.63	21.94	35.50	0.96
Tributary 1	N Compo Rd	955	25-Year	166.55	64.20	65.61	65.61	66.04	0.014799	5.60	32.00	36.18	0.92
Tributary 1	N Compo Rd	955	50-Year	204.67	64.20	65.74	65.74	66.23	0.014442	5.95	36.89	37.23	0.93
Tributary 1	N Compo Rd	955	100-Year	242.86	64.20	65.87	65.87	66.41	0.014107	6.26	41.57	38.20	0.93
Tributary 1	N Compo Rd	955	500-Year	346.63	64.20	66.26	66.26	66.83	0.012265	6.89	60.52	56.18	0.90
Tributary 1	N Compo Rd	910	2-Year	50.13	62.80	64.13		64.28	0.005617	3.40	17.32	27.47	0.57
Tributary 1	N Compo Rd	910	10-Year	119.29	62.80	64.41	64.41	64.80	0.011417	5.62	25.64	32.55	0.84
Tributary 1	N Compo Rd	910	25-Year	166.55	62.80	64.63	64.63	65.08	0.011180	6.13	33.23	36.57	0.85
Tributary 1	N Compo Rd	910	50-Year	204.67	62.80	64.78	64.78	65.27	0.010871	6.43	39.19	39.44	0.85
Tributary 1	N Compo Rd	910	100-Year	242.86	62.80	64.92	64.92	65.44	0.010790	6.73	44.66	41.91	0.86
Tributary 1	N Compo Rd	910	500-Year	346.63	62.80	65.24	65.24	65.85	0.010541	7.39	59.62	50.88	0.87
Tributary 1	N Compo Rd	830	2-Year	50.13	60.40	64.20	61.69	64.20	0.000033	0.50	137.97	106.09	0.05
Tributary 1	N Compo Rd	830	10-Year	119.29	60.40	64.50	62.31	64.51	0.000103	0.93	172.30	118.28	0.09
Tributary 1	N Compo Rd	830	25-Year	166.55	60.40	64.67	62.65	64.69	0.000148	1.16	192.78	124.98	0.11
Tributary 1	N Compo Rd	830	50-Year	204.67	60.40	64.81	62.90	64.83	0.000175	1.29	210.88	130.87	0.12
Tributary 1	N Compo Rd	830	100-Year	242.86	60.40	64.83	63.13	64.86	0.000239	1.52	213.25	131.63	0.14
Tributary 1	N Compo Rd	830	500-Year	346.63	60.40	65.11	63.70	65.15	0.000313	1.82	251.89	144.78	0.16
Tributary 1	N Compo Rd	810.5 Compo Rd North		Culvert									
Tributary 1	N Compo Rd	790	2-Year	50.13	58.92	61.10	61.10	61.23	0.010174	4.27	28.72	34.48	0.59
Tributary 1	N Compo Rd	790	10-Year	119.29	58.92	61.67	61.32	61.85	0.013004	5.47	48.98	36.57	0.66
Tributary 1	N Compo Rd	790	25-Year	166.55	58.92	62.16	61.53	62.31	0.010173	5.23	67.23	38.36	0.58
Tributary 1	N Compo Rd	790	50-Year	204.67	58.92	62.53	61.68	62.67	0.008764	5.10	81.59	39.71	0.53
Tributary 1	N Compo Rd	790	100-Year	242.86	58.92	62.86	61.82	63.00	0.007953	5.05	94.93	40.92	0.50
Tributary 1	N Compo Rd	790	500-Year	346.63	58.92	63.62	62.14	63.78	0.006713	5.36	128.88	47.87	0.48
Tributary 1	N Compo Rd	735	2-Year	50.13	58.40	59.58	59.58	60.03	0.017036	5.46	10.58	14.70	0.97
Tributary 1	N Compo Rd	735	10-Year	119.29	58.40	60.31	60.31	61.00	0.013488	7.01	23.62	20.48	0.94
Tributary 1	N Compo Rd	735	25-Year	166.55	58.40	60.67	60.67	61.51	0.013045	7.82	31.37	22.46	0.96
Tributary 1	N Compo Rd	735	50-Year	204.67	58.40	60.91	60.91	61.87	0.013177	8.46	36.90	23.77	0.98
Tributary 1	N Compo Rd	735	100-Year	242.86	58.40	61.16	61.16	62.21	0.012675	8.89	43.20	25.74	0.98
Tributary 1	N Compo Rd	735	500-Year	346.63	58.40	61.79	61.79	63.01	0.011456	9.78	61.01	30.87	0.96
Tributary 1	N Compo Rd	550	2-Year	50.13	46.00	47.31	47.31	47.76	0.016675	5.42	10.60	15.72	0.95
Tributary 1	N Compo Rd	550	10-Year	119.29	46.00	48.06	48.06	48.67	0.012077	6.66	26.66	26.83	0.88
Tributary 1	N Compo Rd	550	25-Year	166.55	46.00	48.39	48.39	49.10	0.011892	7.41	35.82	29.13	0.90
Tributary 1	N Compo Rd	550	50-Year	204.67	46.00	48.61	48.61	49.41	0.012003	7.96	42.43	30.69	0.92

Deadman Brook Tributaries Existing Conditions

HEC-RAS Plan: Existing (Continued)

River	Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
Tributary 1	N Compo Rd	550	100-Year	242.86	46.00	48.82	48.82	49.69	0.012010	8.43	48.90	32.14	0.94
Tributary 1	N Compo Rd	550	500-Year	346.63	46.00	49.34	49.34	50.38	0.011710	9.44	67.43	38.96	0.95
Tributary 1	N Compo Rd	500	2-Year	50.13	43.40	45.70	45.33	45.88	0.005285	3.93	26.05	32.61	0.46
Tributary 1	N Compo Rd	500	10-Year	119.29	43.40	46.21	46.04	46.55	0.009741	6.10	44.86	40.94	0.64
Tributary 1	N Compo Rd	500	25-Year	166.55	43.40	46.51	46.32	46.90	0.010618	6.81	57.82	44.94	0.68
Tributary 1	N Compo Rd	500	50-Year	204.67	43.40	46.71	46.51	47.14	0.011288	7.32	67.09	47.60	0.71
Tributary 1	N Compo Rd	500	100-Year	242.86	43.40	46.88	46.68	47.35	0.011985	7.80	75.47	49.87	0.74
Tributary 1	N Compo Rd	500	500-Year	346.63	43.40	47.30	47.00	47.87	0.013564	8.96	98.28	59.24	0.80
Tributary 1	N Compo Rd	487.49 Footbridge	Bridge	Bridge									
Tributary 1	N Compo Rd	475	2-Year	50.13	43.40	44.78	44.78	45.22	0.016071	5.41	11.80	24.74	0.81
Tributary 1	N Compo Rd	475	10-Year	119.29	43.40	45.49	45.49	45.97	0.013118	6.44	37.26	45.31	0.79
Tributary 1	N Compo Rd	475	25-Year	166.55	43.40	45.78	45.78	46.30	0.013305	7.07	51.30	52.54	0.81
Tributary 1	N Compo Rd	475	50-Year	204.67	43.40	45.99	45.99	46.52	0.012918	7.38	63.09	57.92	0.81
Tributary 1	N Compo Rd	475	100-Year	242.86	43.40	46.15	46.15	46.70	0.013171	7.75	72.43	59.99	0.82
Tributary 1	N Compo Rd	475	500-Year	346.63	43.40	46.46	46.46	47.13	0.015058	8.91	91.83	63.81	0.90
Tributary 1	N Compo Rd	425	2-Year	50.13	43.40	44.25	44.25	44.42	0.011747	3.41	15.22	48.00	0.75
Tributary 1	N Compo Rd	425	10-Year	119.29	43.40	44.50	44.50	44.80	0.009208	3.78	28.20	52.93	0.70
Tributary 1	N Compo Rd	425	25-Year	166.55	43.40	44.66	44.66	45.02	0.007523	3.80	36.62	55.24	0.65
Tributary 1	N Compo Rd	425	50-Year	204.67	43.40	44.77	44.77	45.18	0.006894	3.88	42.69	56.84	0.63
Tributary 1	N Compo Rd	425	100-Year	242.86	43.40	44.87	44.87	45.32	0.006330	3.94	48.77	58.40	0.62
Tributary 1	N Compo Rd	425	500-Year	346.63	43.40	45.12	45.12	45.68	0.005550	4.16	63.72	61.39	0.59
Tributary 1	N Compo Rd	230	2-Year	50.13	31.20	31.78	31.78	32.00	0.023258	3.83	13.09	28.74	1.00
Tributary 1	N Compo Rd	230	10-Year	119.29	31.20	32.13	32.13	32.53	0.018951	5.06	24.20	33.31	0.99
Tributary 1	N Compo Rd	230	25-Year	166.55	31.20	32.33	32.33	32.82	0.017554	5.64	31.15	36.89	0.99
Tributary 1	N Compo Rd	230	50-Year	204.67	31.20	32.49	32.49	33.04	0.016256	5.98	37.44	45.86	0.98
Tributary 1	N Compo Rd	230	100-Year	242.86	31.20	32.66	32.66	33.23	0.014260	6.13	46.29	57.62	0.94
Tributary 1	N Compo Rd	230	500-Year	346.63	31.20	33.00	33.00	33.66	0.012517	6.69	68.36	69.16	0.91
Tributary 1	N Compo Rd	165	2-Year	50.13	27.60	28.73	28.73	29.14	0.016533	5.22	11.47	18.94	0.94
Tributary 1	N Compo Rd	165	10-Year	119.29	27.60	29.42	29.42	29.99	0.012310	6.49	30.20	36.87	0.89
Tributary 1	N Compo Rd	165	25-Year	166.55	27.60	29.76	29.76	30.39	0.011319	7.05	44.28	46.86	0.88
Tributary 1	N Compo Rd	165	50-Year	204.67	27.60	29.97	29.97	30.66	0.011137	7.48	54.97	53.21	0.89
Tributary 1	N Compo Rd	165	100-Year	242.86	27.60	30.49		30.93	0.006016	6.34	86.90	64.64	0.68
Tributary 1	N Compo Rd	165	500-Year	346.63	27.60	31.56		31.83	0.002820	5.42	165.13	84.69	0.49

Appendix D – Natural Conditions Model HEC-RAS Output

- Deadman Brook Output Table for All Storm Events
- Deadman Brook Tributaries Output Table for All Storm Events

Deadman Brook Natural Conditions

HEC-RAS Plan: Natural

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
US Route 1-DS09	23460	2-Year	19.78	224.20	224.94		224.94	0.000072	0.19	107.03	201.99	0.04
US Route 1-DS09	23460	10-Year	44.12	224.20	225.40		225.40	0.000046	0.22	206.22	245.48	0.04
US Route 1-DS09	23460	25-Year	60.58	224.20	225.63		225.63	0.000042	0.25	275.56	358.12	0.04
US Route 1-DS09	23460	50-Year	73.72	224.20	225.81		225.81	0.000038	0.25	344.65	408.24	0.04
US Route 1-DS09	23460	100-Year	86.82	224.20	225.98		225.98	0.000034	0.26	418.55	422.74	0.04
US Route 1-DS09	23460	500-Year	122.88	224.20	226.52		226.52	0.000022	0.26	649.78	441.29	0.03
US Route 1-DS09	23370	2-Year	19.78	224.40	224.77	224.77	224.90	0.048408	2.85	6.93	28.13	1.01
US Route 1-DS09	23370	10-Year	44.12	224.40	225.37		225.38	0.001196	0.84	78.04	185.48	0.19
US Route 1-DS09	23370	25-Year	60.58	224.40	225.61		225.62	0.000669	0.77	124.71	213.23	0.15
US Route 1-DS09	23370	50-Year	73.72	224.40	225.79		225.80	0.000481	0.75	166.86	248.81	0.13
US Route 1-DS09	23370	100-Year	86.82	224.40	225.97		225.98	0.000350	0.71	212.90	261.02	0.11
US Route 1-DS09	23370	500-Year	122.88	224.40	226.51		226.51	0.000162	0.61	358.86	279.12	0.08
US Route 1-DS09	23330	2-Year	19.78	222.00	224.68		224.69	0.000336	0.86	44.60	47.93	0.09
US Route 1-DS09	23330	10-Year	44.12	222.00	225.35		225.36	0.000347	1.02	134.79	197.74	0.10
US Route 1-DS09	23330	25-Year	60.58	222.00	225.59		225.60	0.000324	1.03	191.20	261.43	0.10
US Route 1-DS09	23330	50-Year	73.72	222.00	225.78		225.78	0.000306	1.04	244.90	437.92	0.09
US Route 1-DS09	23330	100-Year	86.82	222.00	225.96		225.96	0.000252	0.97	299.99	478.58	0.09
US Route 1-DS09	23330	500-Year	122.88	222.00	226.51		226.51	0.000146	0.81	470.36	516.30	0.07
US Route 1-DS09	23260	2-Year	19.78	223.20	224.66		224.67	0.000296	0.70	33.67	65.28	0.10
US Route 1-DS09	23260	10-Year	44.12	223.20	225.33		225.34	0.000235	0.80	99.32	120.26	0.10
US Route 1-DS09	23260	25-Year	60.58	223.20	225.57		225.58	0.000251	0.89	128.93	130.67	0.10
US Route 1-DS09	23260	50-Year	73.72	223.20	225.76		225.76	0.000244	0.92	154.31	145.16	0.10
US Route 1-DS09	23260	100-Year	86.82	223.20	225.94		225.95	0.000229	0.94	182.56	160.85	0.10
US Route 1-DS09	23260	500-Year	122.88	223.20	226.49		226.50	0.000168	0.91	286.58	218.21	0.09
US Route 1-DS09	23230	2-Year	19.78	223.80	224.65		224.66	0.000823	0.76	26.30	39.13	0.16
US Route 1-DS09	23230	10-Year	44.12	223.80	225.32		225.33	0.000401	0.82	64.00	120.81	0.12
US Route 1-DS09	23230	25-Year	60.58	223.80	225.56		225.57	0.000389	0.90	94.11	134.50	0.12
US Route 1-DS09	23230	50-Year	73.72	223.80	225.74		225.76	0.000358	0.93	120.06	145.27	0.12
US Route 1-DS09	23230	100-Year	86.82	223.80	225.93		225.94	0.000309	0.92	151.16	180.10	0.11
US Route 1-DS09	23230	500-Year	122.88	223.80	226.49		226.49	0.000156	0.77	269.94	232.07	0.08
US Route 1-DS09	23145	2-Year	19.78	221.90	224.62		224.63	0.000191	0.61	32.59	98.14	0.09
US Route 1-DS09	23145	10-Year	44.12	221.90	225.31		225.31	0.000120	0.60	94.81	122.96	0.07
US Route 1-DS09	23145	25-Year	60.58	221.90	225.55		225.55	0.000107	0.60	124.96	136.99	0.07
US Route 1-DS09	23145	50-Year	73.72	221.90	225.73		225.74	0.000095	0.60	149.38	145.15	0.07
US Route 1-DS09	23145	100-Year	86.82	221.90	225.92		225.93	0.000084	0.59	174.39	154.63	0.06
US Route 1-DS09	23145	500-Year	122.88	221.90	226.48		226.48	0.000053	0.53	267.63	181.77	0.05
US Route 1-DS09	23105	2-Year	19.78	221.80	224.61		224.62	0.000307	0.71	59.24	66.77	0.07
US Route 1-DS09	23105	10-Year	44.12	221.80	225.30		225.31	0.000313	0.83	122.74	123.59	0.08
US Route 1-DS09	23105	25-Year	60.58	221.80	225.54		225.54	0.000321	0.88	152.89	129.37	0.08
US Route 1-DS09	23105	50-Year	73.72	221.80	225.73		225.73	0.000311	0.90	177.60	133.92	0.08
US Route 1-DS09	23105	100-Year	86.82	221.80	225.92		225.92	0.000293	0.90	203.20	138.48	0.08
US Route 1-DS09	23105	500-Year	122.88	221.80	226.48		226.48	0.000217	0.84	283.24	146.56	0.07
US Route 1-DS09	22980	2-Year	16.42	223.20	224.59		224.59	0.000139	0.45	41.12	54.18	0.07
US Route 1-DS09	22980	10-Year	45.02	223.20	225.27		225.28	0.000218	0.75	78.82	68.33	0.10
US Route 1-DS09	22980	25-Year	65.02	223.20	225.50		225.51	0.000294	0.94	94.72	70.88	0.11
US Route 1-DS09	22980	50-Year	80.66	223.20	225.68		225.69	0.000330	1.05	107.91	72.93	0.12
US Route 1-DS09	22980	100-Year	102.92	223.20	225.86		225.88	0.000402	1.22	121.19	74.94	0.14
US Route 1-DS09	22980	500-Year	173.19	223.20	226.40		226.44	0.000535	1.61	175.66	111.47	0.16
US Route 1-DS09	22875	2-Year	16.42	223.00	224.59	223.23	224.59	0.000027	0.22	81.38	82.71	0.03
US Route 1-DS09	22875	10-Year	45.02	223.00	225.26	223.40	225.26	0.000043	0.36	145.65	109.83	0.04
US Route 1-DS09	22875	25-Year	65.02	223.00	225.49	223.49	225.49	0.000058	0.45	171.95	121.30	0.05
US Route 1-DS09	22875	50-Year	80.66	223.00	225.67	223.55	225.68	0.000064	0.50	195.07	130.54	0.05
US Route 1-DS09	22875	100-Year	102.92	223.00	225.85	223.64	225.86	0.000077	0.57	219.33	139.59	0.06
US Route 1-DS09	22875	500-Year	173.19	223.00	226.40	223.87	226.41	0.000091	0.70	301.58	157.28	0.07
US Route 1-DS09	22855	2-Year	16.42	222.47	224.58		224.58	0.000104	0.52	50.25	71.47	0.06
US Route 1-DS09	22855	10-Year	45.02	222.47	225.26		225.26	0.000197	0.85	114.44	122.19	0.09
US Route 1-DS09	22855	25-Year	65.02	222.47	225.48		225.49	0.000252	1.01	142.75	128.59	0.10
US Route 1-DS09	22855	50-Year	80.66	222.47	225.66		225.67	0.000270	1.09	166.78	133.79	0.11
US Route 1-DS09	22855	100-Year	102.92	222.47	225.84		225.85	0.000318	1.23	191.05	138.84	0.12
US Route 1-DS09	22855	500-Year	173.19	222.47	226.39		226.41	0.000377	1.48	276.62	166.75	0.13
US Route 1-DS09	22830	2-Year	16.42	222.47	224.58	222.85	224.58	0.000170	0.62	29.42	30.22	0.08
US Route 1-DS09	22830	10-Year	45.02	222.47	225.24	223.22	225.26	0.000375	1.11	70.60	113.57	0.12
US Route 1-DS09	22830	25-Year	65.02	222.47	225.46	223.43	225.48	0.000494	1.34	93.47	127.16	0.14
US Route 1-DS09	22830	50-Year	80.66	222.47	225.64	223.58	225.67	0.000509	1.41	117.24	132.40	0.14
US Route 1-DS09	22830	100-Year	102.92	222.47	225.82	223.77	225.84	0.000596	1.58	141.04	144.10	0.15
US Route 1-DS09	22830	500-Year	173.19	222.47	226.37	224.36	226.39	0.000611	1.77	232.06	174.05	0.16
US Route 1-DS09	22810	2-Year	16.42	223.20	224.56		224.57	0.000653	0.91	20.03	30.59	0.15
US Route 1-DS09	22810	10-Year	45.02	223.20	225.22		225.24	0.000733	1.31	59.77	116.87	0.17
US Route 1-DS09	22810	25-Year	65.02	223.20	225.44		225.47	0.000812	1.49	87.22	132.35	0.19
US Route 1-DS09	22810	50-Year	80.66	223.20	225.63		225.65	0.000764	1.53	112.86	145.33	0.18
US Route 1-DS09	22810	100-Year	102.92	223.20	225.80		225.83	0.000807	1.66	139.37	157.64	0.19
US Route 1-DS09	22810	500-Year	173.19	223.20	226.36		226.38	0.000673	1.74	234.54	179.51	0.18

Deadman Brook Natural Conditions

HEC-RAS Plan: Natural (Continued)

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
US Route 1-DS09	22610	2-Year	16.42	223.20	224.43		224.44	0.000683	0.92	19.97	57.72	0.15
US Route 1-DS09	22610	10-Year	45.02	223.20	225.10		225.12	0.000538	1.12	81.04	139.84	0.15
US Route 1-DS09	22610	25-Year	65.02	223.20	225.32		225.33	0.000564	1.24	111.85	150.14	0.15
US Route 1-DS09	22610	50-Year	80.66	223.20	225.51		225.53	0.000492	1.23	142.59	159.77	0.15
US Route 1-DS09	22610	100-Year	102.92	223.20	225.68		225.70	0.000517	1.33	170.31	167.97	0.15
US Route 1-DS09	22610	500-Year	173.19	223.20	226.26		226.27	0.000425	1.39	274.02	189.13	0.14
US Route 1-DS09	22410	2-Year	16.42	223.20	224.33		224.33	0.000419	0.68	30.12	109.07	0.12
US Route 1-DS09	22410	10-Year	45.02	223.20	225.04		225.04	0.000259	0.77	139.09	263.73	0.10
US Route 1-DS09	22410	25-Year	65.02	223.20	225.25		225.25	0.000268	0.84	194.81	266.75	0.11
US Route 1-DS09	22410	50-Year	80.66	223.20	225.46		225.46	0.000225	0.82	250.91	269.76	0.10
US Route 1-DS09	22410	100-Year	102.92	223.20	225.62		225.63	0.000240	0.89	295.81	272.14	0.10
US Route 1-DS09	22410	500-Year	173.19	223.20	226.21		226.21	0.000204	0.96	457.38	280.43	0.10
US Route 1-DS08	22200	2-Year	18.29	223.20	224.15		224.16	0.002026	1.18	31.00	134.10	0.25
US Route 1-DS08	22200	10-Year	101.96	223.20	224.92		224.93	0.000834	1.24	221.26	277.79	0.18
US Route 1-DS08	22200	25-Year	147.88	223.20	225.13		225.14	0.000901	1.40	277.84	282.59	0.19
US Route 1-DS08	22200	50-Year	202.30	223.20	225.34		225.35	0.000937	1.55	337.39	285.26	0.20
US Route 1-DS08	22200	100-Year	242.11	223.20	225.50		225.52	0.000893	1.60	385.39	287.38	0.20
US Route 1-DS08	22200	500-Year	357.87	223.20	226.12		226.13	0.000597	1.56	565.33	296.76	0.17
US Route 1-DS08	22000	2-Year	18.29	223.00	223.92		223.93	0.000759	0.67	34.19	147.00	0.15
US Route 1-DS08	22000	10-Year	101.96	223.00	224.81		224.81	0.000426	0.90	252.31	301.60	0.13
US Route 1-DS08	22000	25-Year	147.88	223.00	224.99		225.00	0.000535	1.09	307.67	317.29	0.15
US Route 1-DS08	22000	50-Year	202.30	223.00	225.19		225.20	0.000590	1.23	371.65	322.33	0.16
US Route 1-DS08	22000	100-Year	242.11	223.00	225.36		225.37	0.000558	1.27	428.30	324.04	0.16
US Route 1-DS08	22000	500-Year	357.87	223.00	226.03		226.04	0.000370	1.24	646.47	352.18	0.13
US Route 1-DS08	21980	2-Year	18.29	222.33	223.91		223.92	0.000335	0.75	77.43	207.00	0.11
US Route 1-DS08	21980	10-Year	101.96	222.33	224.80		224.81	0.000330	1.01	311.04	310.66	0.11
US Route 1-DS08	21980	25-Year	147.88	222.33	224.98		224.99	0.000440	1.22	366.91	318.42	0.13
US Route 1-DS08	21980	50-Year	202.30	222.33	225.18		225.19	0.000523	1.40	431.15	325.89	0.15
US Route 1-DS08	21980	100-Year	242.11	222.33	225.35		225.36	0.000515	1.45	488.62	328.33	0.15
US Route 1-DS08	21980	500-Year	357.87	222.33	226.02		226.03	0.000384	1.43	711.37	359.08	0.13
US Route 1-DS08	21955	2-Year	18.29	222.33	223.66		223.87	0.016449	3.84	5.75	8.73	0.59
US Route 1-DS08	21955	10-Year	101.96	222.33	224.57	224.57	224.77	0.012656	4.76	36.72	119.50	0.56
US Route 1-DS08	21955	25-Year	147.88	222.33	224.66	224.66	224.93	0.016379	5.56	43.85	129.41	0.64
US Route 1-DS08	21955	50-Year	202.30	222.33	224.93	224.72	225.14	0.009119	4.47	77.78	165.02	0.49
US Route 1-DS08	21955	100-Year	242.11	222.33	225.25		225.33	0.004155	3.25	143.11	224.80	0.34
US Route 1-DS08	21955	500-Year	357.87	222.33	225.98		226.01	0.000817	1.68	321.88	262.11	0.15
US Route 1-DS08	21935	2-Year	18.29	222.80	223.69		223.71	0.002521	1.19	16.46	66.08	0.27
US Route 1-DS08	21935	10-Year	101.96	222.80	224.47		224.50	0.001288	1.47	94.22	126.10	0.22
US Route 1-DS08	21935	25-Year	147.88	222.80	224.72		224.75	0.001161	1.56	127.37	139.45	0.21
US Route 1-DS08	21935	50-Year	202.30	222.80	225.00		225.04	0.001076	1.67	169.29	214.27	0.21
US Route 1-DS08	21935	100-Year	242.11	222.80	225.25		225.28	0.000785	1.55	224.55	228.31	0.19
US Route 1-DS08	21935	500-Year	357.87	222.80	225.98		226.00	0.000364	1.28	405.56	269.22	0.13
US Route 1-DS08	21720	2-Year	18.29	222.60	223.40		223.40	0.000920	0.76	24.29	38.65	0.16
US Route 1-DS08	21720	10-Year	101.96	222.60	224.21		224.24	0.001158	1.46	138.04	349.80	0.21
US Route 1-DS08	21720	25-Year	147.88	222.60	224.50		224.52	0.000971	1.50	207.81	364.50	0.20
US Route 1-DS08	21720	50-Year	202.30	222.60	224.82		224.84	0.000781	1.50	290.39	379.00	0.18
US Route 1-DS08	21720	100-Year	242.11	222.60	225.12		225.14	0.000587	1.43	368.18	387.08	0.16
US Route 1-DS08	21720	500-Year	357.87	222.60	225.91		225.92	0.000337	1.31	624.87	414.87	0.13
US Route 1-DS08	21340	2-Year	18.29	222.60	223.18		223.18	0.000367	0.40	45.26	88.54	0.10
US Route 1-DS08	21340	10-Year	101.96	222.60	223.91		223.92	0.000551	0.89	115.96	102.19	0.14
US Route 1-DS08	21340	25-Year	147.88	222.60	224.22		224.24	0.000533	1.02	148.75	108.75	0.14
US Route 1-DS08	21340	50-Year	202.30	222.60	224.58		224.60	0.000477	1.11	189.03	115.37	0.14
US Route 1-DS08	21340	100-Year	242.11	222.60	224.93		224.95	0.000373	1.10	230.77	122.39	0.13
US Route 1-DS08	21340	500-Year	357.87	222.60	225.79		225.81	0.000240	1.09	350.52	172.93	0.11
US Route 1-DS08	21320	2-Year	18.29	220.11	223.17		223.17	0.000056	0.43	45.21	24.10	0.05
US Route 1-DS08	21320	10-Year	101.96	220.11	223.85		223.90	0.000683	1.79	62.64	27.18	0.18
US Route 1-DS08	21320	25-Year	147.88	220.11	224.13		224.21	0.001034	2.33	70.32	28.44	0.23
US Route 1-DS08	21320	50-Year	202.30	220.11	224.45		224.56	0.001362	2.85	79.65	29.89	0.26
US Route 1-DS08	21320	100-Year	242.11	220.11	224.78		224.92	0.001386	3.05	89.98	31.42	0.27
US Route 1-DS08	21320	500-Year	357.87	220.11	225.59		225.78	0.001615	3.72	127.02	71.06	0.30
US Route 1-DS08	21260	2-Year	18.29	220.66	223.17		223.17	0.000045	0.32	56.60	31.15	0.04
US Route 1-DS08	21260	10-Year	101.96	220.66	223.83		223.86	0.000538	1.31	78.07	33.97	0.15
US Route 1-DS08	21260	25-Year	147.88	220.66	224.10		224.14	0.000818	1.69	87.29	35.11	0.19
US Route 1-DS08	21260	50-Year	202.30	220.66	224.41		224.48	0.001064	2.05	98.94	41.71	0.22
US Route 1-DS08	21260	100-Year	242.11	220.66	224.76		224.83	0.001012	2.15	116.95	71.59	0.22
US Route 1-DS08	21260	500-Year	357.87	220.66	225.61		225.68	0.000728	2.15	213.17	168.64	0.19
US Route 1-DS08	21240	2-Year	18.29	222.60	223.17		223.17	0.000351	0.41	44.31	81.22	0.10
US Route 1-DS08	21240	10-Year	101.96	222.60	223.82		223.84	0.000777	1.03	99.55	87.20	0.17
US Route 1-DS08	21240	25-Year	147.88	222.60	224.10		224.12	0.000814	1.21	123.57	89.89	0.18
US Route 1-DS08	21240	50-Year	202.30	222.60	224.42		224.45	0.000769	1.34	153.38	94.47	0.18
US Route 1-DS08	21240	100-Year	242.11	222.60	224.77		224.80	0.000589	1.33	187.63	99.59	0.16

Deadman Brook Natural Conditions

HEC-RAS Plan: Natural (Continued)

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
US Route 1-DS08	21240	500-Year	357.87	222.60	225.63		225.66	0.000389	1.35	282.69	194.61	0.14
US Route 1-DS08	21070	2-Year	18.29	222.60	223.08		223.08	0.001147	0.66	27.89	62.04	0.17
US Route 1-DS08	21070	10-Year	101.96	222.60	223.61		223.65	0.002682	1.63	62.59	82.09	0.30
US Route 1-DS08	21070	25-Year	147.88	222.60	223.87		223.92	0.002424	1.84	81.47	104.77	0.30
US Route 1-DS08	21070	50-Year	202.30	222.60	224.22		224.28	0.001898	1.92	107.63	122.39	0.27
US Route 1-DS08	21070	100-Year	242.11	222.60	224.63		224.68	0.001197	1.79	140.84	137.84	0.22
US Route 1-DS08	21070	500-Year	357.87	222.60	225.54		225.58	0.000661	1.71	223.95	209.41	0.18
US Route 1-DS08	20925	2-Year	18.29	222.40	223.02		223.02	0.000203	0.31	59.75	113.64	0.07
US Route 1-DS08	20925	10-Year	101.96	222.40	223.39		223.40	0.001089	1.00	102.03	117.48	0.19
US Route 1-DS08	20925	25-Year	147.88	222.40	223.71		223.73	0.000811	1.06	140.15	254.24	0.17
US Route 1-DS08	20925	50-Year	202.30	222.40	224.11		224.13	0.000576	1.08	189.21	272.64	0.15
US Route 1-DS08	20925	100-Year	242.11	222.40	224.57		224.58	0.000350	1.00	248.07	289.28	0.12
US Route 1-DS08	20925	500-Year	357.87	222.40	225.51		225.52	0.000211	1.00	399.96	417.35	0.10
US Route 1-DS08	20755	2-Year	29.80	222.60	222.74	222.74	222.82	0.059659	2.17	13.73	98.42	1.02
US Route 1-DS08	20755	10-Year	67.53	222.60	222.85	222.85	222.97	0.048044	2.78	24.28	101.90	1.00
US Route 1-DS08	20755	25-Year	116.25	222.60	223.53		223.55	0.001528	1.17	99.15	115.95	0.22
US Route 1-DS08	20755	50-Year	155.33	222.60	224.01		224.03	0.000626	1.01	156.21	122.20	0.15
US Route 1-DS08	20755	100-Year	200.97	222.60	224.51		224.52	0.000359	0.94	219.48	131.87	0.12
US Route 1-DS08	20755	500-Year	311.97	222.60	225.48		225.49	0.000195	0.92	375.16	192.76	0.10
US Route 1-DS08	20700	2-Year	29.80	217.81	221.96		221.97	0.000185	0.96	32.60	10.75	0.09
US Route 1-DS08	20700	10-Year	67.53	217.81	222.70		222.75	0.000480	1.77	40.76	11.19	0.15
US Route 1-DS08	20700	25-Year	116.25	217.81	223.38		223.48	0.000843	2.60	48.51	11.59	0.21
US Route 1-DS08	20700	50-Year	155.33	217.81	223.81		223.97	0.001122	3.18	53.61	12.20	0.25
US Route 1-DS08	20700	100-Year	200.97	217.81	224.25		224.47	0.001427	3.78	59.15	13.21	0.28
US Route 1-DS08	20700	500-Year	311.97	217.81	225.03		225.43	0.002186	5.11	73.07	28.23	0.36
US Route 1-DS08	20625	2-Year	29.80	218.46	221.92		221.95	0.000552	1.47	21.84	10.70	0.15
US Route 1-DS08	20625	10-Year	67.53	218.46	222.61		222.69	0.001177	2.49	29.81	12.43	0.23
US Route 1-DS08	20625	25-Year	116.25	218.46	223.23		223.39	0.001769	3.40	38.26	14.68	0.29
US Route 1-DS08	20625	50-Year	155.33	218.46	223.64		223.85	0.002097	3.94	44.62	16.34	0.32
US Route 1-DS08	20625	100-Year	200.97	218.46	224.06		224.32	0.002512	4.56	51.88	19.97	0.36
US Route 1-DS08	20625	500-Year	311.97	218.46	224.88		225.21	0.002911	5.43	75.02	36.60	0.40
US Route 1-DS08	20610	2-Year	29.80	220.40	221.78	221.33	221.91	0.006728	2.93	10.81	11.29	0.48
US Route 1-DS08	20610	10-Year	67.53	220.40	222.33	221.86	222.61	0.008967	4.39	17.81	14.03	0.59
US Route 1-DS08	20610	25-Year	116.25	220.40	222.78	222.38	223.27	0.011570	5.82	24.83	17.15	0.70
US Route 1-DS08	20610	50-Year	155.33	220.40	223.04	222.76	223.71	0.013714	6.83	29.49	19.11	0.77
US Route 1-DS08	20610	100-Year	200.97	220.40	223.30	223.18	224.15	0.015399	7.77	34.91	21.36	0.83
US Route 1-DS08	20610	500-Year	311.97	220.40	223.95	223.95	225.01	0.015674	9.03	50.50	27.53	0.87
US Route 1-DS08	20435	2-Year	29.80	218.80	219.55	219.55	219.75	0.040785	3.58	8.32	21.08	1.00
US Route 1-DS08	20435	10-Year	67.53	218.80	219.84	219.84	220.16	0.033230	4.54	15.53	28.74	0.99
US Route 1-DS08	20435	25-Year	116.25	218.80	220.13	220.13	220.55	0.027808	5.29	24.86	35.76	0.96
US Route 1-DS08	20435	50-Year	155.33	218.80	220.33	220.33	220.81	0.024847	5.69	32.60	40.53	0.94
US Route 1-DS08	20435	100-Year	200.97	218.80	220.53	220.53	221.08	0.023728	6.18	41.37	51.01	0.94
US Route 1-DS08	20435	500-Year	311.97	218.80	220.98	220.98	221.58	0.018970	6.69	67.96	65.82	0.88
US Route 1-DS08	20340	2-Year	29.80	217.20	218.89	217.96	218.91	0.000786	1.15	38.92	53.80	0.17
US Route 1-DS08	20340	10-Year	67.53	217.20	219.46	218.34	219.49	0.000953	1.59	75.00	70.32	0.20
US Route 1-DS08	20340	25-Year	116.25	217.20	219.89	218.72	219.94	0.001224	2.06	107.48	82.35	0.23
US Route 1-DS08	20340	50-Year	155.33	217.20	220.15	218.91	220.21	0.001381	2.34	130.08	89.07	0.25
US Route 1-DS08	20340	100-Year	200.97	217.20	220.40	219.12	220.46	0.001529	2.61	152.09	91.91	0.27
US Route 1-DS08	20340	500-Year	311.97	217.20	220.82	219.51	220.92	0.001926	3.22	192.62	96.91	0.31
US Route 1-DS08	20320	2-Year	29.80	215.50	218.87		218.89	0.000915	1.42	49.77	59.04	0.14
US Route 1-DS08	20320	10-Year	67.53	215.50	219.45		219.47	0.001245	1.83	87.47	70.21	0.16
US Route 1-DS08	20320	25-Year	116.25	215.50	219.88		219.90	0.001574	2.21	119.07	76.14	0.19
US Route 1-DS08	20320	50-Year	155.33	215.50	220.14		220.17	0.001794	2.45	139.40	79.63	0.20
US Route 1-DS08	20320	100-Year	200.97	215.50	220.38		220.42	0.002052	2.71	159.09	82.80	0.22
US Route 1-DS08	20320	500-Year	311.97	215.50	220.81		220.86	0.002687	3.28	195.61	88.39	0.25
US Route 1-DS08	20295	2-Year	29.80	215.50	218.80		218.85	0.002867	2.18	24.95	29.58	0.21
US Route 1-DS08	20295	10-Year	67.53	215.50	219.33		219.41	0.004697	3.09	43.83	40.53	0.28
US Route 1-DS08	20295	25-Year	116.25	215.50	219.73		219.83	0.005928	3.71	61.57	48.11	0.32
US Route 1-DS08	20295	50-Year	155.33	215.50	219.97		220.09	0.006563	4.05	74.02	54.08	0.34
US Route 1-DS08	20295	100-Year	200.97	215.50	220.20		220.33	0.007149	4.37	86.83	60.09	0.36
US Route 1-DS08	20295	500-Year	311.97	215.50	220.58		220.75	0.008516	5.02	111.67	70.40	0.39
US Route 1-DS08	20275	2-Year	29.80	217.60	218.61		218.73	0.011249	2.75	11.08	18.45	0.58
US Route 1-DS08	20275	10-Year	67.53	217.60	219.06		219.24	0.009814	3.58	22.39	32.22	0.59
US Route 1-DS08	20275	25-Year	116.25	217.60	219.37		219.63	0.010796	4.40	34.34	44.28	0.64
US Route 1-DS08	20275	50-Year	155.33	217.60	219.45	219.41	219.84	0.015175	5.40	37.98	47.35	0.77
US Route 1-DS08	20275	100-Year	200.97	217.60	219.61	219.61	220.06	0.015904	5.91	46.11	53.57	0.80
US Route 1-DS08	20275	500-Year	311.97	217.60	219.97	219.97	220.46	0.014699	6.45	67.69	67.35	0.79
US Route 1-DS08	20120	2-Year	29.80	216.40	217.60		217.66	0.004616	2.09	15.67	23.90	0.39
US Route 1-DS08	20120	10-Year	67.53	216.40	218.07		218.19	0.005067	2.89	32.57	48.21	0.43
US Route 1-DS08	20120	25-Year	116.25	216.40	218.53		218.65	0.004045	3.13	65.72	97.41	0.41
US Route 1-DS08	20120	50-Year	155.33	216.40	218.83		218.91	0.002815	2.89	99.63	126.65	0.35

Deadman Brook Natural Conditions

HEC-RAS Plan: Natural (Continued)

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
US Route 1-DS08	20120	100-Year	200.97	216.40	219.12		219.18	0.001948	2.62	137.94	139.53	0.30
US Route 1-DS08	20120	500-Year	311.97	216.40	219.68		219.72	0.001111	2.27	224.41	168.67	0.23
US Route 1-DS08	20035	2-Year	29.80	216.00	217.21		217.26	0.003891	1.89	17.90	47.36	0.35
US Route 1-DS08	20035	10-Year	67.53	216.00	217.82		217.87	0.002151	2.00	59.54	80.12	0.29
US Route 1-DS08	20035	25-Year	116.25	216.00	218.35		218.40	0.001638	2.13	104.15	88.07	0.26
US Route 1-DS08	20035	50-Year	155.33	216.00	218.66		218.71	0.001570	2.29	132.05	92.04	0.26
US Route 1-DS08	20035	100-Year	200.97	216.00	218.96		219.02	0.001574	2.48	159.96	95.84	0.27
US Route 1-DS08	20035	500-Year	311.97	216.00	219.52		219.60	0.001623	2.87	215.24	99.38	0.28
US Route 1-DS08	19980	2-Year	29.80	213.83	217.23		217.23	0.000117	0.62	50.86	23.92	0.07
US Route 1-DS08	19980	10-Year	67.53	213.83	217.81		217.83	0.000305	1.13	65.59	56.97	0.11
US Route 1-DS08	19980	25-Year	116.25	213.83	218.32		218.36	0.000550	1.65	80.07	90.55	0.15
US Route 1-DS08	19980	50-Year	155.33	213.83	218.61		218.67	0.000740	2.01	92.75	107.91	0.18
US Route 1-DS08	19980	100-Year	200.97	213.83	218.88		218.96	0.000952	2.39	105.90	116.32	0.21
US Route 1-DS08	19980	500-Year	311.97	213.83	219.38		219.52	0.001450	3.18	131.41	140.18	0.26
US Route 1-DS08	19910	2-Year	29.80	214.52	217.18		217.21	0.000839	1.52	20.93	14.24	0.18
US Route 1-DS08	19910	10-Year	67.53	214.52	217.70		217.79	0.001762	2.52	29.31	22.17	0.26
US Route 1-DS08	19910	25-Year	116.25	214.52	218.12		218.28	0.002720	3.43	37.47	47.84	0.34
US Route 1-DS08	19910	50-Year	155.33	214.52	218.34		218.56	0.003540	4.08	42.26	55.60	0.39
US Route 1-DS08	19910	100-Year	200.97	214.52	218.51		218.82	0.004685	4.85	46.40	62.19	0.45
US Route 1-DS08	19910	500-Year	311.97	214.52	218.53	218.32	219.26	0.011036	7.47	46.82	62.83	0.69
US Route 1-DS08	19890	2-Year	29.80	216.00	216.84	216.84	217.11	0.037611	4.12	7.24	14.50	1.01
US Route 1-DS08	19890	10-Year	67.53	216.00	217.24	217.24	217.61	0.025693	4.98	14.11	19.81	0.91
US Route 1-DS08	19890	25-Year	116.25	216.00	217.59	217.59	218.05	0.021871	5.68	21.92	25.59	0.89
US Route 1-DS08	19890	50-Year	155.33	216.00	217.87	217.87	218.32	0.017172	5.75	30.32	48.19	0.82
US Route 1-DS08	19890	100-Year	200.97	216.00	218.09	218.09	218.55	0.015260	5.94	40.19	71.30	0.79
US Route 1-DS08	19890	500-Year	311.97	216.00	218.50	218.50	218.80	0.009278	5.31	80.85	158.06	0.63
US Route 1-DS08	19795 FEMA "T"	2-Year	29.80	214.20	215.46		215.53	0.004837	2.23	14.13	19.44	0.40
US Route 1-DS08	19795 FEMA "T"	10-Year	67.53	214.20	216.26		216.34	0.002423	2.37	33.43	33.83	0.31
US Route 1-DS08	19795 FEMA "T"	25-Year	116.25	214.20	217.06		217.11	0.001037	1.98	70.71	52.70	0.22
US Route 1-DS08	19795 FEMA "T"	50-Year	155.33	214.20	217.42		217.47	0.000902	2.02	90.27	55.89	0.21
US Route 1-DS08	19795 FEMA "T"	100-Year	200.97	214.20	217.67		217.73	0.000980	2.22	104.50	58.10	0.22
US Route 1-DS08	19795 FEMA "T"	500-Year	311.97	214.20	218.07		218.17	0.001284	2.75	128.59	61.69	0.26
US Route 1-DS08	19745	2-Year	29.80	213.16	214.97		215.15	0.009531	3.42	8.72	6.10	0.50
US Route 1-DS08	19745	10-Year	67.53	213.16	215.54		216.00	0.018440	5.43	12.43	6.75	0.71
US Route 1-DS08	19745	25-Year	116.25	213.16	215.88	215.80	216.84	0.033808	7.87	14.80	7.77	0.96
US Route 1-DS08	19745	50-Year	155.33	213.16	216.76	216.76	217.29	0.014003	6.20	29.14	29.23	0.65
US Route 1-DS08	19745	100-Year	200.97	213.16	217.05	217.05	217.55	0.012634	6.28	39.28	40.71	0.62
US Route 1-DS08	19745	500-Year	311.97	213.16	217.48	217.48	217.97	0.011750	6.59	60.18	58.18	0.61
US Route 1-DS08	19710	2-Year	29.80	213.06	214.91		214.96	0.002504	1.85	16.10	12.80	0.29
US Route 1-DS08	19710	10-Year	67.53	213.06	215.53		215.65	0.003847	2.70	24.97	15.36	0.37
US Route 1-DS08	19710	25-Year	116.25	213.06	216.06		216.25	0.005077	3.46	33.61	17.50	0.44
US Route 1-DS08	19710	50-Year	155.33	213.06	216.38		216.62	0.005892	3.94	39.39	18.80	0.48
US Route 1-DS08	19710	100-Year	200.97	213.06	216.68		216.98	0.006487	4.44	45.84	24.70	0.51
US Route 1-DS08	19710	500-Year	311.97	213.06	217.13		217.59	0.007993	5.50	60.88	42.39	0.58
US Route 1-DS08	19690	2-Year	29.80	213.60	214.48	214.48	214.80	0.034864	4.58	6.51	10.36	1.00
US Route 1-DS08	19690	10-Year	67.53	213.60	214.98	214.98	215.45	0.024590	5.62	12.45	13.45	0.92
US Route 1-DS08	19690	25-Year	116.25	213.60	215.44	215.44	216.02	0.020216	6.36	19.37	16.72	0.88
US Route 1-DS08	19690	50-Year	155.33	213.60	215.71	215.71	216.38	0.018939	6.85	24.30	18.76	0.88
US Route 1-DS08	19690	100-Year	200.97	213.60	216.09	216.09	216.75	0.015416	6.97	32.26	25.20	0.82
US Route 1-DS08	19690	500-Year	311.97	213.60	216.64	216.64	217.35	0.013360	7.50	48.81	35.71	0.79
US Route 1-DS08	19515	2-Year	29.80	212.00	213.89		213.90	0.000145	0.57	62.68	71.88	0.08
US Route 1-DS08	19515	10-Year	67.53	212.00	214.38		214.39	0.000180	0.75	102.16	87.62	0.09
US Route 1-DS08	19515	25-Year	116.25	212.00	214.84		214.86	0.000179	0.85	145.34	99.06	0.09
US Route 1-DS08	19515	50-Year	155.33	212.00	215.12		215.14	0.000180	0.91	174.26	107.34	0.09
US Route 1-DS08	19515	100-Year	200.97	212.00	215.39		215.41	0.000183	0.97	204.36	116.75	0.10
US Route 1-DS08	19515	500-Year	311.97	212.00	215.75		215.78	0.000248	1.21	247.68	129.60	0.11
US Route 1-DS08	19475	2-Year	29.80	212.80	213.83		213.88	0.004064	1.83	16.60	22.88	0.36
US Route 1-DS08	19475	10-Year	67.53	212.80	214.25		214.36	0.004985	2.68	27.71	90.89	0.42
US Route 1-DS08	19475	25-Year	116.25	212.80	214.69		214.83	0.004506	3.11	58.88	135.16	0.42
US Route 1-DS08	19475	50-Year	155.33	212.80	215.00		215.11	0.003475	3.06	100.71	159.64	0.38
US Route 1-DS08	19475	100-Year	200.97	212.80	215.31		215.39	0.002504	2.86	150.31	180.29	0.33
US Route 1-DS08	19475	500-Year	311.97	212.80	215.66		215.75	0.002667	3.25	208.87	201.72	0.35
US Route 1-DS08	19450	2-Year	29.80	212.80	213.40	213.40	213.63	0.039650	3.82	7.80	49.03	1.01
US Route 1-DS08	19450	10-Year	67.53	212.80	213.88	213.74	214.14	0.017244	4.10	17.68	76.62	0.75
US Route 1-DS08	19450	25-Year	116.25	212.80	214.25	214.08	214.61	0.016273	4.97	27.19	96.16	0.77
US Route 1-DS08	19450	50-Year	155.33	212.80	214.49	214.31	214.93	0.015539	5.45	36.38	115.93	0.78
US Route 1-DS08	19450	100-Year	200.97	212.80	214.60	214.60	215.21	0.020132	6.49	41.24	123.38	0.89
US Route 1-DS08	19450	500-Year	311.97	212.80	215.22	215.22	215.61	0.010389	5.79	120.45	217.31	0.68
US Route 1-DS08	19370 FEMA "S"	2-Year	29.80	210.15	211.44	211.24	211.62	0.015194	3.35	8.96	12.09	0.68
US Route 1-DS08	19370 FEMA "S"	10-Year	67.53	210.15	211.70	211.70	212.19	0.031095	5.61	12.26	34.47	1.00
US Route 1-DS08	19370 FEMA "S"	25-Year	116.25	210.15	212.14	212.14	212.79	0.028253	6.48	18.55	76.69	1.00

Deadman Brook Natural Conditions

HEC-RAS Plan: Natural (Continued)

Reach	River Sta		Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
US Route 1-DS08	19370	FEMA "S"	50-Year	155.33	210.15	212.45	212.45	213.19	0.026545	6.94	23.35	104.82	1.00
US Route 1-DS08	19370	FEMA "S"	100-Year	200.97	210.15	213.04	213.04	213.49	0.013268	5.72	57.60	163.38	0.73
US Route 1-DS08	19370	FEMA "S"	500-Year	311.97	210.15	213.40	213.40	213.89	0.014149	6.37	92.53	202.93	0.77
US Route 1-DS08	19100		2-Year	29.80	210.00	210.36		210.37	0.002197	0.64	46.66	176.03	0.22
US Route 1-DS08	19100		10-Year	67.53	210.00	210.58		210.59	0.001565	0.79	85.19	180.16	0.20
US Route 1-DS08	19100		25-Year	116.25	210.00	210.80		210.82	0.001286	0.92	126.05	183.34	0.20
US Route 1-DS08	19100		50-Year	155.33	210.00	210.96		210.97	0.001174	1.01	154.28	185.33	0.19
US Route 1-DS08	19100		100-Year	200.97	210.00	211.11		211.13	0.001124	1.10	182.84	187.32	0.19
US Route 1-DS08	19100		500-Year	311.97	210.00	211.42		211.45	0.001077	1.30	242.59	191.14	0.20
US Route 1-DS08	19055		2-Year	29.80	209.60	210.32		210.33	0.000391	0.35	84.39	212.33	0.10
US Route 1-DS08	19055		10-Year	67.53	209.60	210.54		210.54	0.000481	0.52	131.16	221.10	0.12
US Route 1-DS08	19055		25-Year	116.25	209.60	210.77		210.77	0.000485	0.64	182.21	224.58	0.12
US Route 1-DS08	19055		50-Year	155.33	209.60	210.92		210.93	0.000488	0.72	217.17	226.34	0.13
US Route 1-DS08	19055		100-Year	200.97	209.60	211.08		211.09	0.000502	0.81	252.16	227.66	0.13
US Route 1-DS08	19055		500-Year	311.97	209.60	211.39		211.41	0.000531	0.98	324.60	229.60	0.14
US Route 1-DS08	18990		2-Year	29.80	209.50	210.17	210.11	210.24	0.024715	2.15	13.84	157.18	0.73
US Route 1-DS08	18990		10-Year	67.53	209.50	210.33	210.29	210.44	0.022789	2.80	31.13	173.69	0.76
US Route 1-DS08	18990		25-Year	116.25	209.50	210.60		210.69	0.009483	2.53	67.19	198.82	0.53
US Route 1-DS08	18990		50-Year	155.33	209.50	210.77		210.85	0.007061	2.52	100.63	202.89	0.48
US Route 1-DS08	18990		100-Year	200.97	209.50	210.93		211.00	0.005881	2.57	133.21	207.05	0.45
US Route 1-DS08	18990		500-Year	311.97	209.50	211.25		211.33	0.004679	2.75	200.16	212.68	0.42
US Route 1-DS08	18940		2-Year	29.80	209.40	209.97		209.97	0.001950	0.61	48.81	180.14	0.21
US Route 1-DS08	18940		10-Year	67.53	209.40	210.30		210.30	0.000690	0.59	114.90	205.87	0.14
US Route 1-DS08	18940		25-Year	116.25	209.40	210.59		210.59	0.000503	0.66	180.41	237.05	0.13
US Route 1-DS08	18940		50-Year	155.33	209.40	210.75		210.76	0.000486	0.73	220.18	239.70	0.13
US Route 1-DS08	18940		100-Year	200.97	209.40	210.91		210.92	0.000495	0.81	258.36	241.87	0.13
US Route 1-DS08	18940		500-Year	311.97	209.40	211.23		211.25	0.000524	0.98	336.18	246.30	0.14
US Route 1-DS08	18800		2-Year	29.80	209.00	209.70		209.72	0.001673	0.95	31.48	100.29	0.22
US Route 1-DS08	18800		10-Year	67.53	209.00	210.17		210.19	0.001015	1.07	82.01	141.00	0.19
US Route 1-DS08	18800		25-Year	116.25	209.00	210.46		210.49	0.001149	1.35	123.53	167.54	0.21
US Route 1-DS08	18800		50-Year	155.33	209.00	210.63		210.66	0.001255	1.52	151.08	173.16	0.22
US Route 1-DS08	18800		100-Year	200.97	209.00	210.77		210.81	0.001398	1.71	177.00	177.49	0.24
US Route 1-DS08	18800		500-Year	311.97	209.00	211.07		211.12	0.001642	2.07	231.01	185.73	0.26
US Route 1-DS08	18760		2-Year	29.80	208.30	209.63		209.66	0.001335	1.29	28.70	116.10	0.21
US Route 1-DS08	18760		10-Year	67.53	208.30	210.11		210.14	0.001304	1.60	81.71	138.82	0.22
US Route 1-DS08	18760		25-Year	116.25	208.30	210.39		210.43	0.001589	1.97	122.74	148.67	0.25
US Route 1-DS08	18760		50-Year	155.33	208.30	210.54		210.59	0.001909	2.27	145.53	156.82	0.28
US Route 1-DS08	18760		100-Year	200.97	208.30	210.68		210.74	0.002259	2.58	166.94	163.20	0.31
US Route 1-DS08	18760		500-Year	311.97	208.30	210.95		211.04	0.002789	3.09	213.29	174.26	0.35
US Route 1-DS08	18735		2-Year	29.80	208.30	209.56		209.61	0.002782	1.84	19.76	71.28	0.29
US Route 1-DS08	18735		10-Year	67.53	208.30	210.00		210.08	0.003595	2.54	55.11	125.11	0.35
US Route 1-DS08	18735		25-Year	116.25	208.30	210.29		210.37	0.003899	2.94	91.46	132.33	0.37
US Route 1-DS08	18735		50-Year	155.33	208.30	210.41		210.52	0.004974	3.45	107.38	143.93	0.42
US Route 1-DS08	18735		100-Year	200.97	208.30	210.51		210.65	0.006034	3.93	122.73	146.47	0.47
US Route 1-DS08	18735		500-Year	311.97	208.30	210.74		210.92	0.007727	4.76	157.23	152.65	0.54
US Route 1-DS08	18710	FEMA "R"	2-Year	29.80	207.46	209.46		209.53	0.002754	2.10	22.86	103.52	0.31
US Route 1-DS08	18710	FEMA "R"	10-Year	67.53	207.46	209.90	209.31	209.98	0.003184	2.71	62.63	190.25	0.35
US Route 1-DS08	18710	FEMA "R"	25-Year	116.25	207.46	210.16	209.80	210.26	0.003970	3.31	113.57	222.54	0.40
US Route 1-DS08	18710	FEMA "R"	50-Year	155.33	207.46	210.27	209.88	210.37	0.004618	3.69	137.74	224.39	0.44
US Route 1-DS08	18710	FEMA "R"	100-Year	200.97	207.46	210.31		210.46	0.006680	4.49	146.55	224.99	0.53
US Route 1-DS08	18710	FEMA "R"	500-Year	311.97	207.46	210.47		210.67	0.009303	5.55	182.70	227.41	0.63
US Route 1-DS08	18490		2-Year	29.80	207.00	207.70	207.70	207.92	0.037834	3.71	8.02	18.17	0.98
US Route 1-DS08	18490		10-Year	67.53	207.00	208.08	208.03	208.37	0.024561	4.37	17.00	32.31	0.87
US Route 1-DS08	18490		25-Year	116.25	207.00	208.55	208.37	208.78	0.011501	4.11	43.73	78.98	0.65
US Route 1-DS08	18490		50-Year	155.33	207.00	208.91		209.08	0.006722	3.72	75.06	92.10	0.52
US Route 1-DS08	18490		100-Year	200.97	207.00	209.30		209.38	0.003289	2.99	122.82	135.96	0.37
US Route 1-DS08	18490		500-Year	311.97	207.00	210.09		210.13	0.000908	1.97	241.45	160.96	0.21
US Route 1-DS08	18440	FEMA "Q"	2-Year	29.80	205.12	206.50	206.50	206.87	0.033068	4.91	6.29	9.79	0.98
US Route 1-DS08	18440	FEMA "Q"	10-Year	67.53	205.12	207.06	207.06	207.61	0.025146	6.15	13.29	15.26	0.94
US Route 1-DS08	18440	FEMA "Q"	25-Year	116.25	205.12	207.58	207.58	208.28	0.021588	7.11	22.65	20.41	0.92
US Route 1-DS08	18440	FEMA "Q"	50-Year	155.33	205.12	207.94	207.94	208.71	0.019542	7.61	30.54	23.90	0.90
US Route 1-DS08	18440	FEMA "Q"	100-Year	200.97	205.12	208.27	208.27	209.12	0.018697	8.17	38.83	26.11	0.90
US Route 1-DS08	18440	FEMA "Q"	500-Year	311.97	205.12	208.87	208.87	209.95	0.019179	9.53	55.83	30.53	0.95
US Route 1-DS08	18360		2-Year	29.80	203.76	206.06		206.08	0.001044	1.29	23.82	20.74	0.19
US Route 1-DS08	18360		10-Year	67.53	203.76	206.56		206.63	0.001798	2.09	35.53	25.35	0.27
US Route 1-DS08	18360		25-Year	116.25	203.76	207.05		207.17	0.002353	2.79	49.04	30.85	0.32
US Route 1-DS08	18360		50-Year	155.33	203.76	207.37		207.53	0.002681	3.24	60.30	40.14	0.35
US Route 1-DS08	18360		100-Year	200.97	203.76	207.66		207.86	0.003045	3.70	73.22	48.67	0.38
US Route 1-DS08	18360		500-Year	311.97	203.76	208.30		208.57	0.003437	4.48	111.75	78.04	0.42
US Route 1-DS08	18300		2-Year	30.32	205.00	205.85		205.94	0.009012	2.38	12.77	19.69	0.51
US Route 1-DS08	18300		10-Year	68.30	205.00	206.24		206.41	0.009703	3.35	21.15	23.42	0.58

Deadman Brook Natural Conditions

HEC-RAS Plan: Natural (Continued)

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
US Route 1-DS08	18300	25-Year	118.21	205.00	206.66		206.91	0.009194	4.08	32.00	28.29	0.59
US Route 1-DS08	18300	50-Year	158.11	205.00	206.95		207.25	0.008847	4.50	40.61	32.45	0.60
US Route 1-DS08	18300	100-Year	203.83	205.00	207.18	206.72	207.55	0.009400	5.04	52.35	58.61	0.63
US Route 1-DS08	18300	500-Year	316.16	205.00	208.04		208.33	0.005103	4.72	114.03	86.69	0.49
US Route 1-DS08	18095	2-Year	37.63	201.20	202.17	202.17	202.54	0.032877	4.89	7.78	11.29	0.99
US Route 1-DS08	18095	10-Year	80.00	201.20	202.67	202.67	203.23	0.025763	6.09	14.56	38.57	0.96
US Route 1-DS08	18095	25-Year	147.20	201.20	203.28	203.28	204.03	0.021201	7.19	26.09	71.73	0.93
US Route 1-DS08	18095	50-Year	197.06	201.20	203.63	203.63	204.49	0.019989	7.82	34.72	83.95	0.93
US Route 1-DS08	18095	100-Year	246.53	201.20	203.99	203.99	204.88	0.017575	8.11	45.57	98.59	0.89
US Route 1-DS08	18095	500-Year	389.05	201.20	204.25	204.25	205.92	0.029953	11.28	54.69	107.97	1.18
US Route 1-DS08	18050 FEMA "P"	2-Year	37.63	199.64	200.92		201.03	0.006893	2.66	14.16	14.03	0.47
US Route 1-DS08	18050 FEMA "P"	10-Year	80.00	199.64	201.56		201.74	0.006376	3.43	23.61	15.65	0.48
US Route 1-DS08	18050 FEMA "P"	25-Year	147.20	199.64	202.24		202.54	0.006893	4.37	34.85	17.35	0.52
US Route 1-DS08	18050 FEMA "P"	50-Year	197.06	199.64	202.66		203.02	0.007151	4.90	42.23	50.59	0.54
US Route 1-DS08	18050 FEMA "P"	100-Year	246.53	199.64	203.02		203.46	0.007345	5.33	49.09	61.93	0.55
US Route 1-DS08	18050 FEMA "P"	500-Year	389.05	199.64	203.95	202.78	204.53	0.007042	6.24	72.36	109.87	0.56
US Route 1-DS08	17835 FEMA "O"	2-Year	37.63	197.32	200.75		200.78	0.000430	1.33	39.51	29.18	0.14
US Route 1-DS08	17835 FEMA "O"	10-Year	80.00	197.32	201.19		201.26	0.001069	2.31	52.70	31.17	0.23
US Route 1-DS08	17835 FEMA "O"	25-Year	147.20	197.32	201.54		201.72	0.002360	3.67	63.95	32.77	0.34
US Route 1-DS08	17835 FEMA "O"	50-Year	197.06	197.32	201.73		202.00	0.003433	4.58	70.09	50.06	0.42
US Route 1-DS08	17835 FEMA "O"	100-Year	246.53	197.32	201.86		202.24	0.004637	5.45	74.74	53.71	0.49
US Route 1-DS08	17835 FEMA "O"	500-Year	389.05	197.32	202.19	201.60	202.92	0.008365	7.72	86.18	95.79	0.66
US Route 1-DS08	17775	2-Year	37.63	199.40	200.35	200.35	200.67	0.034019	4.50	8.57	16.06	0.99
US Route 1-DS08	17775	10-Year	80.00	199.40	200.87	200.87	201.09	0.013748	4.24	37.28	94.40	0.69
US Route 1-DS08	17775	25-Year	147.20	199.40	201.10	201.10	201.40	0.017412	5.39	59.96	101.47	0.81
US Route 1-DS08	17775	50-Year	197.06	199.40	201.24	201.24	201.59	0.018906	5.98	74.33	105.76	0.85
US Route 1-DS08	17775	100-Year	246.53	199.40	201.37	201.37	201.74	0.019210	6.37	88.64	109.53	0.87
US Route 1-DS08	17775	500-Year	389.05	199.40	201.65	201.65	202.12	0.021644	7.51	120.78	117.33	0.95
US Route 1-DS07	17550 FEMA "N"	2-Year	43.17	197.38	199.38		199.41	0.001514	1.60	59.79	165.94	0.24
US Route 1-DS07	17550 FEMA "N"	10-Year	94.82	197.38	199.92		199.94	0.000930	1.55	188.29	278.13	0.19
US Route 1-DS07	17550 FEMA "N"	25-Year	154.72	197.38	200.39		200.40	0.000589	1.42	326.38	301.36	0.16
US Route 1-DS07	17550 FEMA "N"	50-Year	189.41	197.38	200.60		200.62	0.000529	1.43	390.87	307.06	0.15
US Route 1-DS07	17550 FEMA "N"	100-Year	230.72	197.38	200.83		200.84	0.000488	1.45	460.58	313.10	0.15
US Route 1-DS07	17550 FEMA "N"	500-Year	357.65	197.38	201.40		201.41	0.000453	1.57	655.98	358.45	0.15
US Route 1-DS07	17395	2-Year	43.17	197.60	198.81		198.93	0.008697	2.77	15.75	20.04	0.53
US Route 1-DS07	17395	10-Year	94.82	197.60	199.49		199.64	0.005254	3.17	34.08	34.05	0.45
US Route 1-DS07	17395	25-Year	154.72	197.60	200.00		200.18	0.004608	3.60	55.13	54.65	0.44
US Route 1-DS07	17395	50-Year	189.41	197.60	200.22		200.41	0.004423	3.77	67.28	57.88	0.44
US Route 1-DS07	17395	100-Year	230.72	197.60	200.44		200.65	0.004317	3.96	80.44	61.20	0.44
US Route 1-DS07	17395	500-Year	357.65	197.60	200.97		201.22	0.004327	4.51	114.83	69.11	0.46
US Route 1-DS07	17350	2-Year	43.17	196.61	198.78		198.80	0.000802	1.16	39.58	35.65	0.17
US Route 1-DS07	17350	10-Year	94.82	196.61	199.47		199.51	0.000978	1.66	68.61	48.77	0.20
US Route 1-DS07	17350	25-Year	154.72	196.61	199.98		200.04	0.001182	2.10	96.00	58.44	0.23
US Route 1-DS07	17350	50-Year	189.41	196.61	200.18		200.26	0.001324	2.34	108.29	59.96	0.24
US Route 1-DS07	17350	100-Year	230.72	196.61	200.40		200.49	0.001492	2.61	121.12	61.50	0.26
US Route 1-DS07	17350	500-Year	357.65	196.61	200.89		201.04	0.002007	3.34	152.62	65.15	0.31
US Route 1-DS07	17230 FEMA "M"	2-Year	43.17	195.99	198.69		198.72	0.000853	1.48	45.39	51.05	0.18
US Route 1-DS07	17230 FEMA "M"	10-Year	94.82	195.99	199.35		199.40	0.001147	2.08	83.87	64.77	0.22
US Route 1-DS07	17230 FEMA "M"	25-Year	154.72	195.99	199.84		199.91	0.001426	2.59	117.97	74.85	0.26
US Route 1-DS07	17230 FEMA "M"	50-Year	189.41	195.99	200.03		200.12	0.001638	2.89	132.53	78.65	0.28
US Route 1-DS07	17230 FEMA "M"	100-Year	230.72	195.99	200.22		200.33	0.001864	3.20	147.92	80.76	0.30
US Route 1-DS07	17230 FEMA "M"	500-Year	357.65	195.99	200.66		200.82	0.002592	4.08	184.41	85.42	0.36
US Route 1-DS07	17000	2-Year	43.17	196.80	198.02		198.21	0.015053	3.54	12.41	17.98	0.69
US Route 1-DS07	17000	10-Year	94.82	196.80	198.69		198.88	0.007325	3.68	42.28	69.43	0.53
US Route 1-DS07	17000	25-Year	154.72	196.80	199.01	198.73	199.26	0.008660	4.55	69.47	133.11	0.59
US Route 1-DS07	17000	50-Year	189.41	196.80	199.19	198.85	199.43	0.007815	4.60	92.19	154.95	0.57
US Route 1-DS07	17000	100-Year	230.72	196.80	199.35		199.59	0.007544	4.76	114.52	186.16	0.57
US Route 1-DS07	17000	500-Year	357.65	196.80	199.83		200.01	0.005663	4.71	211.12	215.78	0.51
US Route 1-DS06	16785 FEMA "L"	2-Year	53.24	194.63	197.82		197.84	0.000665	1.35	89.68	118.05	0.16
US Route 1-DS06	16785 FEMA "L"	10-Year	138.40	194.63	198.30		198.34	0.001444	2.26	153.37	142.33	0.24
US Route 1-DS06	16785 FEMA "L"	25-Year	191.47	194.63	198.50		198.55	0.001855	2.68	181.90	150.11	0.27
US Route 1-DS06	16785 FEMA "L"	50-Year	227.73	194.63	198.62		198.69	0.002055	2.90	201.51	155.23	0.29
US Route 1-DS06	16785 FEMA "L"	100-Year	261.89	194.63	198.75		198.82	0.002170	3.06	221.14	160.20	0.30
US Route 1-DS06	16785 FEMA "L"	500-Year	396.06	194.63	199.15		199.24	0.002658	3.66	288.58	182.91	0.34
US Route 1-DS06	16605	2-Year	53.24	196.80	197.65		197.66	0.001464	0.88	60.63	106.23	0.20
US Route 1-DS06	16605	10-Year	138.40	196.80	198.01		198.04	0.001960	1.40	104.16	203.11	0.25
US Route 1-DS06	16605	25-Year	191.47	196.80	198.09		198.14	0.002775	1.77	115.82	211.43	0.31
US Route 1-DS06	16605	50-Year	227.73	196.80	198.19		198.25	0.002836	1.90	129.88	221.22	0.32
US Route 1-DS06	16605	100-Year	261.89	196.80	198.34		198.40	0.002434	1.91	151.40	232.46	0.30
US Route 1-DS06	16605	500-Year	396.06	196.80	198.84		198.89	0.001383	1.80	275.69	279.18	0.24
US Route 1-DS06	16395 FEMA "K"	2-Year	53.24	195.80	196.52	196.52	196.77	0.037110	4.00	13.53	30.67	1.00

Deadman Brook Natural Conditions

HEC-RAS Plan: Natural (Continued)

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
US Route 1-DS06	16395 FEMA "K"	10-Year	138.40	195.80	197.15		197.27	0.008481	3.29	67.89	156.22	0.55
US Route 1-DS06	16395 FEMA "K"	25-Year	191.47	195.80	197.65		197.68	0.001753	1.91	176.06	277.98	0.26
US Route 1-DS06	16395 FEMA "K"	50-Year	227.73	195.80	197.93		197.95	0.000805	1.44	257.77	295.29	0.18
US Route 1-DS06	16395 FEMA "K"	100-Year	261.89	195.80	198.17		198.18	0.000503	1.23	333.05	330.27	0.15
US Route 1-DS06	16395 FEMA "K"	500-Year	396.06	195.80	198.75		198.76	0.000286	1.09	538.83	370.53	0.12
US Route 1-DS06	16345	2-Year	53.24	191.60	196.32		196.32	0.000105	0.67	84.63	30.38	0.07
US Route 1-DS06	16345	10-Year	138.40	191.60	197.18		197.21	0.000288	1.31	124.13	94.46	0.12
US Route 1-DS06	16345	25-Year	191.47	191.60	197.61		197.65	0.000365	1.59	173.82	144.29	0.14
US Route 1-DS06	16345	50-Year	227.73	191.60	197.88		197.92	0.000385	1.70	215.50	160.61	0.14
US Route 1-DS06	16345	100-Year	261.89	191.60	198.12		198.16	0.000402	1.80	258.52	204.89	0.15
US Route 1-DS06	16345	500-Year	396.06	191.60	198.69		198.74	0.000478	2.13	378.84	217.76	0.16
US Route 1-DS06	16265	2-Year	53.24	191.71	196.29		196.31	0.000274	1.27	43.94	14.70	0.12
US Route 1-DS06	16265	10-Year	138.40	191.71	197.06		197.16	0.000902	2.61	55.89	23.34	0.22
US Route 1-DS06	16265	25-Year	191.47	191.71	197.43		197.59	0.001300	3.30	61.88	90.29	0.26
US Route 1-DS06	16265	50-Year	227.73	191.71	197.65		197.85	0.001644	3.81	66.08	133.14	0.30
US Route 1-DS06	16265	100-Year	261.89	191.71	197.85		198.08	0.001860	4.16	70.31	180.65	0.32
US Route 1-DS06	16265	500-Year	396.06	191.71	198.57		198.68	0.001114	3.51	198.42	442.55	0.25
US Route 1-DS06	16245	2-Year	53.24	192.80	196.28		196.30	0.000323	1.04	51.32	133.55	0.11
US Route 1-DS06	16245	10-Year	138.40	192.80	197.07		197.14	0.000966	2.07	70.35	221.55	0.19
US Route 1-DS06	16245	25-Year	191.47	192.80	197.48		197.54	0.000874	2.11	142.14	299.08	0.19
US Route 1-DS06	16245	50-Year	227.73	192.80	197.75		197.78	0.000567	1.77	232.90	361.96	0.15
US Route 1-DS06	16245	100-Year	261.89	192.80	197.98		198.01	0.000379	1.50	320.53	392.02	0.12
US Route 1-DS06	16245	500-Year	396.06	192.80	198.63		198.64	0.000161	1.07	607.69	470.33	0.08
US Route 1-DS06	16215	2-Year	53.24	192.30	196.27		196.29	0.000385	1.20	46.49	103.37	0.11
US Route 1-DS06	16215	10-Year	138.40	192.30	197.06		197.10	0.000713	1.88	118.05	208.88	0.16
US Route 1-DS06	16215	25-Year	191.47	192.30	197.49		197.51	0.000387	1.47	233.85	313.16	0.12
US Route 1-DS06	16215	50-Year	227.73	192.30	197.76		197.77	0.000253	1.24	319.65	344.44	0.10
US Route 1-DS06	16215	100-Year	261.89	192.30	197.99		197.99	0.000182	1.08	401.98	369.17	0.08
US Route 1-DS06	16215	500-Year	396.06	192.30	198.63		198.64	0.000097	0.85	662.68	430.40	0.06
US Route 1-DS06	16170 FEMA "J"	2-Year	53.24	195.40	196.13	196.11	196.23	0.044413	2.48	21.46	134.29	0.95
US Route 1-DS06	16170 FEMA "J"	10-Year	138.40	195.40	197.05		197.06	0.000885	1.06	137.86	245.83	0.18
US Route 1-DS06	16170 FEMA "J"	25-Year	191.47	195.40	197.48		197.49	0.000348	0.83	247.73	258.78	0.12
US Route 1-DS06	16170 FEMA "J"	50-Year	227.73	195.40	197.75		197.76	0.000231	0.75	318.71	274.69	0.10
US Route 1-DS06	16170 FEMA "J"	100-Year	261.89	195.40	197.98		197.99	0.000174	0.70	383.75	288.50	0.09
US Route 1-DS06	16170 FEMA "J"	500-Year	396.06	195.40	198.63		198.64	0.000110	0.67	603.31	391.37	0.07
US Route 1-DS06	15975	2-Year	53.24	194.40	196.14		196.14	0.000068	0.34	214.05	264.52	0.05
US Route 1-DS06	15975	10-Year	138.40	194.40	197.02		197.03	0.000066	0.46	491.08	365.60	0.05
US Route 1-DS06	15975	25-Year	191.47	194.40	197.46		197.47	0.000059	0.49	660.13	402.65	0.05
US Route 1-DS06	15975	50-Year	227.73	194.40	197.73		197.73	0.000055	0.50	771.35	425.26	0.05
US Route 1-DS06	15975	100-Year	261.89	194.40	197.96		197.97	0.000052	0.51	872.67	444.87	0.05
US Route 1-DS06	15975	500-Year	396.06	194.40	198.62		198.62	0.000051	0.58	1169.31	463.23	0.05
US Route 1-DS06	15780	2-Year	53.24	193.80	196.05		196.10	0.001640	2.03	54.33	142.34	0.26
US Route 1-DS06	15780	10-Year	138.40	193.80	196.96		196.99	0.000882	1.94	205.05	190.56	0.20
US Route 1-DS06	15780	25-Year	191.47	193.80	197.41		197.44	0.000655	1.85	295.43	206.06	0.18
US Route 1-DS06	15780	50-Year	227.73	193.80	197.69		197.71	0.000566	1.81	352.83	213.47	0.17
US Route 1-DS06	15780	100-Year	261.89	193.80	197.92		197.94	0.000510	1.80	403.96	219.86	0.16
US Route 1-DS06	15780	500-Year	396.06	193.80	198.58		198.60	0.000477	1.93	559.39	319.59	0.16
US Route 1-DS06	15720	2-Year	53.24	192.24	196.02		196.04	0.000505	1.40	48.71	64.81	0.15
US Route 1-DS06	15720	10-Year	138.40	192.24	196.86		196.93	0.001021	2.36	119.14	128.68	0.22
US Route 1-DS06	15720	25-Year	191.47	192.24	197.31		197.38	0.001056	2.59	181.28	161.46	0.22
US Route 1-DS06	15720	50-Year	227.73	192.24	197.60		197.66	0.000943	2.56	228.10	164.75	0.21
US Route 1-DS06	15720	100-Year	261.89	192.24	197.84		197.90	0.000869	2.55	268.73	167.56	0.21
US Route 1-DS06	15720	500-Year	396.06	192.24	198.53		198.56	0.000585	2.29	486.73	382.84	0.17
US Route 1-DS06	15640	2-Year	53.24	193.03	195.98		196.00	0.000487	1.29	44.57	23.98	0.14
US Route 1-DS06	15640	10-Year	138.40	193.03	196.75		196.84	0.001273	2.49	70.22	88.05	0.24
US Route 1-DS06	15640	25-Year	191.47	193.03	197.15		197.28	0.001542	2.96	99.00	115.80	0.27
US Route 1-DS06	15640	50-Year	227.73	193.03	197.45		197.57	0.001447	3.01	134.83	129.96	0.27
US Route 1-DS06	15640	100-Year	261.89	193.03	197.70		197.81	0.001305	2.98	170.08	142.53	0.25
US Route 1-DS06	15640	500-Year	396.06	193.03	198.44		198.50	0.000893	2.74	334.98	308.82	0.22
US Route 1-DS06	15590 FEMA "I"	2-Year	53.24	194.40	195.84		195.93	0.004968	2.43	25.60	38.54	0.41
US Route 1-DS06	15590 FEMA "I"	10-Year	138.40	194.40	196.60		196.72	0.003975	3.09	75.25	81.74	0.40
US Route 1-DS06	15590 FEMA "I"	25-Year	191.47	194.40	197.04		197.15	0.002924	3.07	116.33	100.88	0.36
US Route 1-DS06	15590 FEMA "I"	50-Year	227.73	194.40	197.36		197.45	0.002314	2.98	149.90	113.77	0.33
US Route 1-DS06	15590 FEMA "I"	100-Year	261.89	194.40	197.63		197.71	0.001891	2.88	182.54	125.41	0.30
US Route 1-DS06	15590 FEMA "I"	500-Year	396.06	194.40	198.38		198.44	0.001265	2.75	297.27	205.13	0.26
US Route 1-DS06	15405	2-Year	53.24	193.80	195.59		195.61	0.000851	1.31	82.29	177.16	0.18
US Route 1-DS06	15405	10-Year	138.40	193.80	196.48		196.49	0.000507	1.35	251.72	204.13	0.15
US Route 1-DS06	15405	25-Year	191.47	193.80	196.96		196.98	0.000393	1.34	354.68	219.54	0.14
US Route 1-DS06	15405	50-Year	227.73	193.80	197.29		197.30	0.000340	1.34	429.11	236.01	0.13
US Route 1-DS06	15405	100-Year	261.89	193.80	197.57		197.58	0.000308	1.35	497.37	250.57	0.13
US Route 1-DS06	15405	500-Year	396.06	193.80	198.32		198.33	0.000288	1.48	698.84	284.12	0.13

Deadman Brook Natural Conditions

HEC-RAS Plan: Natural (Continued)

Reach	River Sta		Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
US Route 1-DS06	15215	FEMA "H"	2-Year	53.24	192.29	195.46		195.48	0.000349	1.14	53.76	33.88	0.13
US Route 1-DS06	15215	FEMA "H"	10-Year	138.40	192.29	196.26		196.33	0.000823	2.10	86.18	47.72	0.20
US Route 1-DS06	15215	FEMA "H"	25-Year	191.47	192.29	196.75		196.83	0.000921	2.43	111.52	57.31	0.22
US Route 1-DS06	15215	FEMA "H"	50-Year	227.73	192.29	197.08		197.16	0.000941	2.60	131.56	64.12	0.22
US Route 1-DS06	15215	FEMA "H"	100-Year	261.89	192.29	197.36		197.45	0.000940	2.72	150.75	68.86	0.23
US Route 1-DS06	15215	FEMA "H"	500-Year	396.06	192.29	198.09		198.20	0.001007	3.11	201.77	122.51	0.24
US Route 1-DS06	15180		2-Year	53.24	191.25	195.44		195.47	0.000467	1.23	44.47	17.18	0.13
US Route 1-DS06	15180		10-Year	138.40	191.25	196.19		196.29	0.001466	2.51	64.12	46.31	0.23
US Route 1-DS06	15180		25-Year	191.47	191.25	196.65		196.78	0.001706	2.93	87.81	84.45	0.25
US Route 1-DS06	15180		50-Year	227.73	191.25	196.98		197.11	0.001722	3.10	106.91	105.03	0.26
US Route 1-DS06	15180		100-Year	261.89	191.25	197.26		197.40	0.001738	3.24	126.03	132.96	0.26
US Route 1-DS06	15180		500-Year	396.06	191.25	198.07		198.15	0.001080	2.84	264.37	348.29	0.21
US Route 1-DS06	15100		2-Year	53.24	190.78	195.45		195.45	0.000067	0.64	87.09	29.58	0.06
US Route 1-DS06	15100		10-Year	138.40	190.78	196.20		196.23	0.000232	1.33	113.47	50.88	0.11
US Route 1-DS06	15100		25-Year	191.47	190.78	196.67		196.71	0.000295	1.60	148.23	99.09	0.12
US Route 1-DS06	15100		50-Year	227.73	190.78	197.00		197.04	0.000301	1.68	182.10	170.57	0.13
US Route 1-DS06	15100		100-Year	261.89	190.78	197.29		197.33	0.000267	1.64	234.98	225.29	0.12
US Route 1-DS06	15100		500-Year	396.06	190.78	198.09		198.11	0.000168	1.41	474.72	393.12	0.10
US Route 1-DS06	15050		2-Year	53.24	191.92	195.43		195.44	0.000268	0.87	61.56	32.33	0.11
US Route 1-DS06	15050		10-Year	138.40	191.92	196.17		196.21	0.000624	1.60	88.33	48.76	0.17
US Route 1-DS06	15050		25-Year	191.47	191.92	196.63		196.68	0.000682	1.86	123.82	106.99	0.18
US Route 1-DS06	15050		50-Year	227.73	191.92	196.98		197.01	0.000527	1.75	164.97	134.24	0.16
US Route 1-DS06	15050		100-Year	261.89	191.92	197.28		197.31	0.000367	1.54	243.22	293.80	0.14
US Route 1-DS06	15050		500-Year	396.06	191.92	198.09		198.10	0.000184	1.24	555.51	661.57	0.10
US Route 1-DS05	14770		2-Year	85.94	193.00	195.26		195.30	0.000978	1.63	67.37	109.94	0.20
US Route 1-DS05	14770		10-Year	196.38	193.00	196.04		196.06	0.000468	1.40	193.76	191.96	0.15
US Route 1-DS05	14770		25-Year	267.61	193.00	196.56		196.58	0.000248	1.15	298.94	211.26	0.11
US Route 1-DS05	14770		50-Year	317.01	193.00	196.92		196.94	0.000174	1.03	378.01	224.67	0.10
US Route 1-DS05	14770		100-Year	362.61	193.00	197.24		197.25	0.000141	0.98	451.47	246.15	0.09
US Route 1-DS05	14770		500-Year	470.47	193.00	198.06		198.07	0.000082	0.85	683.56	318.02	0.07
US Route 1-DS05	14590		2-Year	85.94	193.20	194.54		194.80	0.016828	4.21	23.25	32.21	0.75
US Route 1-DS05	14590		10-Year	196.38	193.20	195.59		195.83	0.006344	4.20	67.35	120.27	0.52
US Route 1-DS05	14590		25-Year	267.61	193.20	196.40		196.48	0.001652	2.69	177.85	168.71	0.28
US Route 1-DS05	14590		50-Year	317.01	193.20	196.83		196.87	0.000857	2.12	251.94	177.29	0.21
US Route 1-DS05	14590		100-Year	362.61	193.20	197.17		197.20	0.000595	1.89	313.32	188.81	0.18
US Route 1-DS05	14590		500-Year	470.47	193.20	198.02		198.04	0.000276	1.48	488.35	222.10	0.12
US Route 1-DS05	14390		2-Year	85.94	192.80	194.08		194.10	0.001317	1.25	69.72	69.58	0.21
US Route 1-DS05	14390		10-Year	196.38	192.80	195.56		195.58	0.000356	1.16	181.27	95.83	0.13
US Route 1-DS05	14390		25-Year	267.61	192.80	196.33		196.35	0.000262	1.19	266.79	142.12	0.11
US Route 1-DS05	14390		50-Year	317.01	192.80	196.77		196.79	0.000230	1.21	331.34	155.77	0.11
US Route 1-DS05	14390		100-Year	362.61	192.80	197.11		197.13	0.000214	1.24	386.47	165.35	0.11
US Route 1-DS05	14390		500-Year	470.47	192.80	197.98		198.00	0.000167	1.24	537.67	183.12	0.10
US Route 1-DS05	14325		2-Year	85.94	190.83	192.98	192.98	193.77	0.035654	7.13	12.06	7.72	1.00
US Route 1-DS05	14325		10-Year	196.38	190.83	194.18	194.18	195.38	0.033314	8.79	22.37	9.54	0.99
US Route 1-DS05	14325		25-Year	267.61	190.83	194.85	194.85	196.16	0.027353	9.27	30.05	14.61	0.93
US Route 1-DS05	14325		50-Year	317.01	190.83	195.29	195.29	196.61	0.023274	9.35	37.58	19.17	0.87
US Route 1-DS05	14325		100-Year	362.61	190.83	195.67	195.67	196.96	0.020434	9.36	45.49	23.01	0.83
US Route 1-DS05	14325		500-Year	470.47	190.83	195.79	195.79	197.76	0.030258	11.63	48.43	24.28	1.02
US Route 1-DS05	14265		2-Year	85.94	190.85	192.81		192.85	0.000853	1.58	54.98	39.72	0.23
US Route 1-DS05	14265		10-Year	196.38	190.85	194.39		194.43	0.000369	1.63	123.96	47.52	0.17
US Route 1-DS05	14265		25-Year	267.61	190.85	195.34		195.38	0.000262	1.62	171.29	52.21	0.15
US Route 1-DS05	14265		50-Year	317.01	190.85	195.95		195.99	0.000220	1.62	204.22	55.23	0.14
US Route 1-DS05	14265		100-Year	362.61	190.85	196.50		196.53	0.000187	1.61	239.52	76.79	0.13
US Route 1-DS05	14265		500-Year	470.47	190.85	196.66		196.71	0.000277	2.00	252.30	81.46	0.16
US Route 1-DS05	14200		2-Year	85.94	190.12	192.75		192.79	0.000727	1.79	51.77	33.68	0.22
US Route 1-DS05	14200		10-Year	196.38	190.12	194.36		194.41	0.000387	1.90	115.08	44.62	0.17
US Route 1-DS05	14200		25-Year	267.61	190.12	195.31		195.36	0.000277	1.88	160.78	50.59	0.15
US Route 1-DS05	14200		50-Year	317.01	190.12	195.93		195.98	0.000230	1.86	193.09	54.11	0.14
US Route 1-DS05	14200		100-Year	362.61	190.12	196.47		196.52	0.000207	1.88	224.27	61.28	0.14
US Route 1-DS05	14200		500-Year	470.47	190.12	196.62		196.69	0.000316	2.36	233.56	63.41	0.17
US Route 1-DS05	14160		2-Year	85.94	190.12	192.24	191.69	192.67	0.010283	5.29	16.23	7.67	0.64
US Route 1-DS05	14160		10-Year	196.38	190.12	192.84	192.84	194.22	0.026437	9.41	20.87	7.67	1.01
US Route 1-DS05	14160		25-Year	267.61	190.12	193.46	193.46	195.15	0.027866	10.43	25.65	7.67	1.01
US Route 1-DS05	14160		50-Year	317.01	190.12	193.87	193.87	195.76	0.028816	11.04	28.73	7.67	1.00
US Route 1-DS05	14160		100-Year	362.61	190.12	194.22	194.22	196.28	0.029678	11.54	31.43	7.67	1.00
US Route 1-DS05	14160		500-Year	470.47	190.12	196.15	196.15	196.61	0.006207	6.41	100.57	101.71	0.46
US Route 1-DS05	14125	FEMA "G"	2-Year	85.94	190.20	191.67	191.67	192.17	0.014294	5.83	15.70	16.55	0.92
US Route 1-DS05	14125	FEMA "G"	10-Year	196.38	190.20	192.44	192.44	193.14	0.011409	7.17	30.95	22.75	0.89
US Route 1-DS05	14125	FEMA "G"	25-Year	267.61	190.20	192.81	192.81	193.60	0.010693	7.75	39.75	25.59	0.88
US Route 1-DS05	14125	FEMA "G"	50-Year	317.01	190.20	193.02	193.02	193.88	0.010521	8.13	45.31	27.25	0.89
US Route 1-DS05	14125	FEMA "G"	100-Year	362.61	190.20	193.21	193.21	194.11	0.010165	8.38	50.72	28.92	0.88
US Route 1-DS05	14125	FEMA "G"	500-Year	470.47	190.20	193.60	193.60	194.60	0.009687	8.93	62.73	32.34	0.88

Deadman Brook Natural Conditions

HEC-RAS Plan: Natural (Continued)

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
US Route 1-DS05	13995	2-Year	85.94	189.80	190.99		191.02	0.000856	1.29	67.15	67.24	0.22
US Route 1-DS05	13995	10-Year	196.38	189.80	191.53		191.58	0.001107	1.93	104.37	72.76	0.27
US Route 1-DS05	13995	25-Year	267.61	189.80	191.77		191.85	0.001256	2.25	122.33	75.63	0.29
US Route 1-DS05	13995	50-Year	317.01	189.80	191.91		192.00	0.001355	2.46	133.26	77.51	0.31
US Route 1-DS05	13995	100-Year	362.61	189.80	192.03		192.14	0.001438	2.64	142.72	79.18	0.32
US Route 1-DS05	13995	500-Year	470.47	189.80	192.28		192.42	0.001622	3.02	162.96	82.88	0.35
US Route 1-DS05	13845	2-Year	85.94	189.80	190.57		190.70	0.008526	2.89	29.78	47.05	0.64
US Route 1-DS05	13845	10-Year	196.38	189.80	190.99	190.75	191.21	0.007471	3.78	55.03	73.73	0.65
US Route 1-DS05	13845	25-Year	267.61	189.80	191.20	190.99	191.44	0.006833	4.09	71.49	83.05	0.64
US Route 1-DS05	13845	50-Year	317.01	189.80	191.35	191.10	191.59	0.006183	4.18	84.07	89.62	0.62
US Route 1-DS05	13845	100-Year	362.61	189.80	191.46	191.20	191.72	0.005893	4.30	94.52	94.73	0.61
US Route 1-DS05	13845	500-Year	470.47	189.80	191.72		191.99	0.005183	4.47	120.23	106.27	0.59
US Route 1-DS05	13640	2-Year	85.94	186.60	187.79	187.78	188.22	0.017269	5.27	17.29	23.22	0.97
US Route 1-DS05	13640	10-Year	196.38	186.60	188.46	188.46	189.12	0.013359	6.68	37.85	40.00	0.93
US Route 1-DS05	13640	25-Year	267.61	186.60	188.81	188.81	189.55	0.011941	7.20	53.60	50.29	0.91
US Route 1-DS05	13640	50-Year	317.01	186.60	189.00	189.00	189.81	0.011817	7.61	63.53	55.81	0.92
US Route 1-DS05	13640	100-Year	362.61	186.60	189.20	189.20	190.03	0.010990	7.79	75.53	64.41	0.90
US Route 1-DS05	13640	500-Year	470.47	186.60	189.59	189.59	190.47	0.009911	8.21	104.20	81.42	0.88
US Route 1-DS05	13440	2-Year	85.94	184.00	185.53	185.53	185.77	0.008703	4.34	25.89	57.83	0.71
US Route 1-DS05	13440	10-Year	196.38	184.00	186.18		186.31	0.003361	3.63	77.01	101.56	0.48
US Route 1-DS05	13440	25-Year	267.61	184.00	186.44		186.56	0.002836	3.65	106.11	123.70	0.45
US Route 1-DS05	13440	50-Year	317.01	184.00	186.55		186.68	0.002884	3.81	120.76	133.46	0.46
US Route 1-DS05	13440	100-Year	362.61	184.00	186.64		186.78	0.002962	3.97	133.03	141.12	0.46
US Route 1-DS05	13440	500-Year	470.47	184.00	186.85		187.00	0.002929	4.18	164.31	158.99	0.47
US Route 1-DS05	13385	2-Year	85.94	182.68	184.51	184.51	185.05	0.014005	6.20	16.04	16.79	0.81
US Route 1-DS05	13385	10-Year	196.38	182.68	185.53	185.53	186.00	0.008487	6.49	50.28	60.50	0.68
US Route 1-DS05	13385	25-Year	267.61	182.68	185.85	185.85	186.28	0.007923	6.73	73.66	90.16	0.67
US Route 1-DS05	13385	50-Year	317.01	182.68	186.03	186.03	186.42	0.007168	6.64	91.79	108.82	0.64
US Route 1-DS05	13385	100-Year	362.61	182.68	186.13	186.13	186.52	0.007132	6.75	102.81	113.96	0.64
US Route 1-DS05	13385	500-Year	470.47	182.68	186.28	186.28	186.72	0.008046	7.38	120.78	121.87	0.69
US Route 1-DS05	13360	2-Year	85.94	182.20	184.10		184.32	0.005051	3.95	24.29	22.83	0.53
US Route 1-DS05	13360	10-Year	196.38	182.20	184.88		185.20	0.005068	5.07	47.62	40.82	0.57
US Route 1-DS05	13360	25-Year	267.61	182.20	185.21	184.85	185.63	0.005706	5.85	63.26	86.10	0.61
US Route 1-DS05	13360	50-Year	317.01	182.20	185.53		185.80	0.003652	5.03	94.86	108.88	0.50
US Route 1-DS05	13360	100-Year	362.61	182.20	185.43	185.10	185.88	0.006145	6.38	83.93	101.92	0.64
US Route 1-DS05	13360	500-Year	470.47	182.20	185.65	185.64	186.09	0.006087	6.65	107.97	116.31	0.65
US Route 1-DS05	13300	2-Year	85.94	181.40	183.62		183.92	0.006200	4.76	21.15	19.83	0.56
US Route 1-DS05	13300	10-Year	196.38	181.40	184.48	184.22	184.83	0.005436	5.55	47.00	41.51	0.56
US Route 1-DS05	13300	25-Year	267.61	181.40	185.09		185.28	0.002834	4.52	93.09	98.23	0.41
US Route 1-DS05	13300	50-Year	317.01	181.40	185.48		185.59	0.001558	3.58	132.17	104.08	0.31
US Route 1-DS05	13300	100-Year	362.61	181.40	185.04	185.04	185.44	0.005991	6.51	88.01	97.45	0.60
US Route 1-DS05	13300	500-Year	470.47	181.40	185.20	185.20	185.65	0.006669	7.06	103.43	99.81	0.64
US Route 1-DS05	13275	2-Year	85.94	181.40	183.61		183.78	0.003351	3.55	28.86	31.14	0.44
US Route 1-DS05	13275	10-Year	196.38	181.40	184.50		184.69	0.002813	4.16	68.69	79.88	0.43
US Route 1-DS05	13275	25-Year	267.61	181.40	185.12	184.10	185.21	0.001262	3.17	129.64	116.40	0.30
US Route 1-DS05	13275	50-Year	317.01	181.40	185.49	184.12	185.55	0.000804	2.71	174.70	126.94	0.24
US Route 1-DS05	13275	100-Year	362.61	181.40	184.82		185.13	0.004472	5.63	97.11	97.18	0.55
US Route 1-DS05	13275	500-Year	470.47	181.40	185.00		185.37	0.005178	6.28	115.94	112.94	0.60
US Route 1-DS05	13240	2-Year	85.94	181.20	183.03	183.03	183.53	0.012476	6.07	16.14	16.90	0.88
US Route 1-DS05	13240	10-Year	196.38	181.20	183.86	183.86	184.48	0.009528	7.13	33.76	75.71	0.83
US Route 1-DS05	13240	25-Year	267.61	181.20	183.88	183.88	184.99	0.017083	9.60	34.21	77.02	1.11
US Route 1-DS05	13240	50-Year	317.01	181.20	183.96	183.96	185.34	0.020361	10.72	36.39	83.26	1.22
US Route 1-DS05	13240	100-Year	362.61	181.20	184.55	184.55	184.94	0.005779	6.62	89.56	99.07	0.67
US Route 1-DS05	13240	500-Year	470.47	181.20	184.70	184.70	185.15	0.006608	7.30	103.95	101.75	0.72
US Route 1-DS05	13205	2-Year	85.94	179.03	180.99	180.99	181.86	0.023975	7.47	11.50	6.71	1.01
US Route 1-DS05	13205	10-Year	196.38	179.03	182.42	182.42	183.53	0.015679	8.69	24.03	11.29	0.87
US Route 1-DS05	13205	25-Year	267.61	179.03	182.93	182.93	184.26	0.015648	9.61	30.24	12.89	0.89
US Route 1-DS05	13205	50-Year	317.01	179.03	183.95	183.95	184.43	0.005126	6.49	73.63	78.73	0.53
US Route 1-DS05	13205	100-Year	362.61	179.03	184.09	184.09	184.55	0.005066	6.58	84.89	84.71	0.53
US Route 1-DS05	13205	500-Year	470.47	179.03	184.31	184.31	184.80	0.005510	7.06	103.93	93.39	0.56
US Route 1-DS05	13130	2-Year	85.94	177.59	180.54		180.60	0.000674	1.87	47.12	22.02	0.21
US Route 1-DS05	13130	10-Year	196.38	177.59	181.32		181.47	0.001366	3.12	65.01	24.11	0.32
US Route 1-DS05	13130	25-Year	267.61	177.59	181.67		181.88	0.001767	3.76	73.66	25.05	0.36
US Route 1-DS05	13130	50-Year	317.01	177.59	181.88		182.14	0.002035	4.17	78.88	25.61	0.39
US Route 1-DS05	13130	100-Year	362.61	177.59	182.04		182.35	0.002296	4.54	83.13	26.21	0.42
US Route 1-DS05	13130	500-Year	470.47	177.59	182.38		182.80	0.002913	5.35	92.38	28.43	0.48
US Route 1-DS05	13010	2-Year	85.94	176.70	180.41		180.49	0.001078	2.36	42.26	29.85	0.22
US Route 1-DS05	13010	10-Year	196.38	176.70	181.06		181.25	0.002289	3.82	64.17	37.87	0.32
US Route 1-DS05	13010	25-Year	267.61	176.70	181.34		181.60	0.003005	4.56	75.73	44.42	0.37
US Route 1-DS05	13010	50-Year	317.01	176.70	181.51		181.81	0.003405	4.98	83.72	48.56	0.40
US Route 1-DS05	13010	100-Year	362.61	176.70	181.65		181.99	0.003758	5.33	90.58	61.68	0.42

Deadman Brook Natural Conditions

HEC-RAS Plan: Natural (Continued)

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
US Route 1-DS05	13010	500-Year	470.47	176.70	181.96		182.36	0.004293	5.93	108.02	88.63	0.46
US Route 1-DS05	12985	2-Year	85.94	176.70	180.39		180.46	0.000989	2.33	45.40	31.11	0.21
US Route 1-DS05	12985	10-Year	196.38	176.70	180.99		181.19	0.002275	3.91	69.11	47.17	0.33
US Route 1-DS05	12985	25-Year	267.61	176.70	181.27		181.52	0.002921	4.62	83.38	57.39	0.38
US Route 1-DS05	12985	50-Year	317.01	176.70	181.44		181.73	0.003233	4.98	93.88	67.74	0.40
US Route 1-DS05	12985	100-Year	362.61	176.70	181.58		181.89	0.003470	5.26	104.51	85.27	0.42
US Route 1-DS05	12985	500-Year	470.47	176.70	181.90		182.25	0.003764	5.71	136.79	115.56	0.44
US Route 1-DS05	12935	2-Year	85.94	178.80	180.20		180.36	0.005263	3.25	27.89	31.29	0.55
US Route 1-DS05	12935	10-Year	196.38	178.80	180.86		181.04	0.003733	3.76	67.53	79.50	0.50
US Route 1-DS05	12935	25-Year	267.61	178.80	181.18		181.35	0.002974	3.75	95.82	97.85	0.46
US Route 1-DS05	12935	50-Year	317.01	178.80	181.38		181.54	0.002612	3.74	116.65	110.76	0.44
US Route 1-DS05	12935	100-Year	362.61	178.80	181.54		181.70	0.002439	3.78	134.68	120.82	0.43
US Route 1-DS05	12935	500-Year	470.47	178.80	181.89		182.05	0.002037	3.78	182.23	161.28	0.40
US Route 1-DS05	12770	2-Year	85.94	178.00	179.37		179.54	0.004916	3.37	26.85	28.21	0.54
US Route 1-DS05	12770	10-Year	196.38	178.00	180.06		180.35	0.004858	4.51	49.90	39.54	0.58
US Route 1-DS05	12770	25-Year	267.61	178.00	180.39		180.73	0.004763	4.98	64.64	48.24	0.59
US Route 1-DS05	12770	50-Year	317.01	178.00	180.68		181.01	0.004042	4.98	79.58	55.69	0.55
US Route 1-DS05	12770	100-Year	362.61	178.00	180.58		181.07	0.006214	6.01	74.43	53.23	0.68
US Route 1-DS05	12770	500-Year	470.47	178.00	180.71	180.62	181.41	0.008433	7.25	81.39	56.52	0.80
US Route 1-DS05	12570	2-Year	85.94	176.20	177.36	177.36	177.83	0.017415	5.49	16.07	18.82	0.98
US Route 1-DS05	12570	10-Year	196.38	176.20	178.07	178.07	178.78	0.013562	6.95	31.29	24.90	0.94
US Route 1-DS05	12570	25-Year	267.61	176.20	178.45	178.45	179.25	0.011905	7.46	41.72	73.37	0.91
US Route 1-DS05	12570	50-Year	317.01	176.20	178.53	178.53	179.56	0.014432	8.43	44.34	79.82	1.01
US Route 1-DS05	12570	100-Year	362.61	176.20	179.03	179.03	179.68	0.007630	7.04	87.99	99.86	0.76
US Route 1-DS05	12570	500-Year	470.47	176.20	179.58		180.06	0.005028	6.48	145.27	107.89	0.64
US Route 1-DS05	12520	2-Year	85.94	173.26	175.64		175.93	0.005536	4.26	20.16	10.41	0.54
US Route 1-DS05	12520	10-Year	196.38	173.26	176.69		177.28	0.008097	6.20	31.67	11.68	0.66
US Route 1-DS05	12520	25-Year	267.61	173.26	176.48	176.48	177.78	0.018679	9.13	29.30	11.43	1.01
US Route 1-DS05	12520	50-Year	317.01	173.26	176.81	176.81	178.23	0.018572	9.56	33.16	11.84	1.01
US Route 1-DS05	12520	100-Year	362.61	173.26	177.12	177.12	178.62	0.018250	9.86	36.79	12.20	1.00
US Route 1-DS05	12520	500-Year	470.47	173.26	177.73	177.73	179.46	0.018265	10.58	44.49	12.95	1.01
US Route 1-DS05	12435	2-Year	85.94	173.20	175.77		175.78	0.000288	0.89	96.09	66.83	0.13
US Route 1-DS05	12435	10-Year	196.38	173.20	177.04		177.05	0.000211	0.99	199.17	94.80	0.12
US Route 1-DS05	12435	25-Year	267.61	173.20	177.30		177.32	0.000267	1.20	224.01	95.85	0.14
US Route 1-DS05	12435	50-Year	317.01	173.20	177.52		177.54	0.000279	1.30	245.17	96.74	0.14
US Route 1-DS05	12435	100-Year	362.61	173.20	177.72		177.75	0.000284	1.37	264.86	97.56	0.15
US Route 1-DS05	12435	500-Year	470.47	173.20	178.15		178.19	0.000299	1.54	306.88	99.21	0.15
US Route 1-DS05	12400	2-Year	101.53	172.80	175.00	175.00	175.68	0.012185	6.96	17.80	20.34	0.90
US Route 1-DS05	12400	10-Year	227.02	172.80	175.96	175.96	176.93	0.011045	8.74	34.64	47.95	0.92
US Route 1-DS05	12400	25-Year	294.23	172.80	176.59	176.59	177.23	0.006323	7.55	82.68	81.44	0.72
US Route 1-DS05	12400	50-Year	349.20	172.80	176.78	176.78	177.45	0.006465	7.92	98.19	82.37	0.73
US Route 1-DS05	12400	100-Year	404.09	172.80	176.93	176.93	177.65	0.006830	8.36	110.46	83.10	0.76
US Route 1-DS05	12400	500-Year	534.19	172.80	177.26	177.26	178.07	0.007505	9.26	138.36	85.67	0.80
US Route 1-DS05	12190	2-Year	101.53	169.00	170.52	170.28	170.86	0.008567	4.69	23.79	23.07	0.72
US Route 1-DS05	12190	10-Year	227.02	169.00	171.15	171.03	171.85	0.010970	6.89	40.15	28.58	0.87
US Route 1-DS05	12190	25-Year	294.23	169.00	171.39	171.36	172.29	0.012249	7.86	47.15	30.30	0.94
US Route 1-DS05	12190	50-Year	349.20	169.00	171.60	171.60	172.63	0.012473	8.43	53.63	31.81	0.96
US Route 1-DS05	12190	100-Year	404.09	169.00	171.83	171.83	172.94	0.011904	8.77	61.39	33.53	0.95
US Route 1-DS05	12190	500-Year	534.19	169.00	172.30	172.30	173.62	0.011631	9.67	78.04	38.48	0.97
US Route 1-DS05	11990 FEMA "F"	2-Year	101.53	166.48	167.87	167.87	168.24	0.020236	4.88	20.79	28.38	1.01
US Route 1-DS05	11990 FEMA "F"	10-Year	227.02	166.48	168.38	168.38	168.96	0.017640	6.10	37.47	34.18	1.01
US Route 1-DS05	11990 FEMA "F"	25-Year	294.23	166.48	168.61	168.61	169.28	0.016710	6.59	45.20	35.67	1.01
US Route 1-DS05	11990 FEMA "F"	50-Year	349.20	166.48	168.78	168.78	169.52	0.015858	6.90	51.55	36.85	1.00
US Route 1-DS05	11990 FEMA "F"	100-Year	404.09	166.48	168.93	168.93	169.74	0.015547	7.26	57.05	38.33	1.00
US Route 1-DS05	11990 FEMA "F"	500-Year	534.19	166.48	169.27	169.27	170.23	0.014279	7.90	70.79	42.31	0.99
US Route 1-DS05	11795	2-Year	101.53	163.40	164.98		165.01	0.000735	1.49	70.11	52.40	0.22
US Route 1-DS05	11795	10-Year	227.02	163.40	166.63		166.67	0.000272	1.49	165.76	63.42	0.15
US Route 1-DS05	11795	25-Year	294.23	163.40	167.11		167.15	0.000279	1.66	196.65	69.17	0.15
US Route 1-DS05	11795	50-Year	349.20	163.40	167.29		167.35	0.000330	1.87	210.12	74.57	0.17
US Route 1-DS05	11795	100-Year	404.09	163.40	167.48		167.54	0.000374	2.06	224.21	79.82	0.18
US Route 1-DS05	11795	500-Year	534.19	163.40	167.94		168.02	0.000439	2.40	264.31	93.16	0.20
US Route 1-DS05	11745	2-Year	101.53	162.00	164.72		164.93	0.003196	3.72	31.38	20.83	0.40
US Route 1-DS05	11745	10-Year	227.02	162.00	166.36		166.62	0.002385	4.41	98.13	70.57	0.37
US Route 1-DS05	11745	25-Year	294.23	162.00	166.82		167.09	0.002431	4.76	134.67	88.75	0.38
US Route 1-DS05	11745	50-Year	349.20	162.00	166.94		167.28	0.003023	5.39	145.27	93.36	0.43
US Route 1-DS05	11745	100-Year	404.09	162.00	167.05		167.46	0.003584	5.96	156.26	97.87	0.47
US Route 1-DS05	11745	500-Year	534.19	162.00	167.45	166.67	167.93	0.004173	6.76	197.68	113.43	0.51
US Route 1-DS05	11725	2-Year	101.53	162.00	164.61		164.85	0.004109	3.95	26.38	16.89	0.43
US Route 1-DS05	11725	10-Year	227.02	162.00	166.25		166.55	0.003033	4.71	68.76	45.56	0.40
US Route 1-DS05	11725	25-Year	294.23	162.00	166.70		167.03	0.003069	5.06	95.17	71.27	0.41
US Route 1-DS05	11725	50-Year	349.20	162.00	166.77		167.20	0.004013	5.84	99.80	74.87	0.47

Deadman Brook Natural Conditions

HEC-RAS Plan: Natural (Continued)

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
US Route 1-DS05	11725	100-Year	404.09	162.00	166.80	165.95	167.36	0.005186	6.67	102.08	76.59	0.54
US Route 1-DS05	11725	500-Year	534.19	162.00	166.87	166.87	167.78	0.008300	8.53	107.93	80.81	0.68
US Route 1-DS05	11715	2-Year	101.53	161.68	164.25		164.77	0.010272	5.76	17.63	8.22	0.69
US Route 1-DS05	11715	10-Year	227.02	161.68	165.02	165.02	166.39	0.021647	9.42	24.10	8.77	1.00
US Route 1-DS05	11715	25-Year	294.23	161.68	166.43	166.43	166.97	0.006471	6.45	60.66	65.16	0.57
US Route 1-DS05	11715	50-Year	349.20	161.68	166.64	166.64	167.15	0.006203	6.53	75.08	76.39	0.56
US Route 1-DS05	11715	100-Year	404.09	161.68	166.79	166.79	167.29	0.006205	6.68	87.19	84.69	0.56
US Route 1-DS05	11715	500-Year	534.19	161.68	167.05	167.05	167.57	0.006532	7.12	110.91	97.92	0.58
US Route 1-DS05	11665	2-Year	101.53	161.77	164.36		164.47	0.001750	2.80	52.81	56.10	0.33
US Route 1-DS05	11665	10-Year	227.02	161.77	164.98		165.19	0.002717	4.13	96.81	85.14	0.43
US Route 1-DS05	11665	25-Year	294.23	161.77	165.24		165.49	0.002942	4.56	120.75	98.23	0.46
US Route 1-DS05	11665	50-Year	349.20	161.77	165.48		165.73	0.002857	4.72	145.12	110.02	0.46
US Route 1-DS05	11665	100-Year	404.09	161.77	165.72		165.97	0.002635	4.75	173.97	122.53	0.44
US Route 1-DS05	11665	500-Year	534.19	161.77	166.09		166.36	0.002728	5.17	222.29	138.56	0.46
US Route 1-DS05	11585	2-Year	101.53	162.60	164.39		164.40	0.000226	0.92	116.14	76.42	0.12
US Route 1-DS05	11585	10-Year	227.02	162.60	165.04		165.07	0.000379	1.47	168.85	85.50	0.17
US Route 1-DS05	11585	25-Year	294.23	162.60	165.31		165.35	0.000443	1.70	192.87	94.02	0.18
US Route 1-DS05	11585	50-Year	349.20	162.60	165.54		165.59	0.000467	1.85	215.46	101.46	0.19
US Route 1-DS05	11585	100-Year	404.09	162.60	165.78		165.84	0.000473	1.97	240.79	109.19	0.20
US Route 1-DS05	11585	500-Year	534.19	162.60	166.14		166.22	0.000564	2.31	282.74	126.30	0.22
US Route 1-DS05	11505	2-Year	101.53	160.19	164.34		164.37	0.000593	1.49	73.81	57.76	0.19
US Route 1-DS05	11505	10-Year	227.02	160.19	164.96		165.03	0.000914	2.24	118.39	84.96	0.25
US Route 1-DS05	11505	25-Year	294.23	160.19	165.22		165.30	0.000966	2.46	141.62	91.51	0.26
US Route 1-DS05	11505	50-Year	349.20	160.19	165.45		165.54	0.000927	2.55	163.93	99.05	0.26
US Route 1-DS05	11505	100-Year	404.09	160.19	165.70		165.79	0.000846	2.56	189.94	109.84	0.25
US Route 1-DS05	11505	500-Year	534.19	160.19	166.07		166.16	0.000896	2.83	233.08	127.19	0.26
US Route 1-DS05	11455	2-Year	101.53	160.00	164.32		164.35	0.000349	1.66	103.96	160.59	0.16
US Route 1-DS05	11455	10-Year	227.02	160.00	164.96		164.99	0.000312	1.77	208.93	164.90	0.16
US Route 1-DS05	11455	25-Year	294.23	160.00	165.23		165.26	0.000305	1.83	254.13	171.74	0.16
US Route 1-DS05	11455	50-Year	349.20	160.00	165.47		165.50	0.000278	1.81	296.10	179.06	0.15
US Route 1-DS05	11455	100-Year	404.09	160.00	165.72		165.75	0.000245	1.76	342.34	187.38	0.14
US Route 1-DS05	11455	500-Year	534.19	160.00	166.09		166.12	0.000249	1.87	415.19	203.42	0.15
US Route 1-DS05	11400	2-Year	101.53	162.80	164.19		164.29	0.008351	4.06	51.02	154.00	0.61
US Route 1-DS05	11400	10-Year	227.02	162.80	164.93		164.96	0.000896	1.76	168.39	164.53	0.21
US Route 1-DS05	11400	25-Year	294.23	162.80	165.20		165.23	0.000702	1.69	213.62	169.26	0.19
US Route 1-DS05	11400	50-Year	349.20	162.80	165.44		165.48	0.000563	1.62	255.23	173.78	0.18
US Route 1-DS05	11400	100-Year	404.09	162.80	165.70		165.73	0.000454	1.54	300.17	178.54	0.16
US Route 1-DS05	11400	500-Year	534.19	162.80	166.06		166.10	0.000427	1.62	366.96	185.46	0.16
US Route 1-DS05	11345	2-Year	101.53	159.82	164.14		164.19	0.000585	1.89	61.39	95.77	0.17
US Route 1-DS05	11345	10-Year	227.02	159.82	164.86		164.92	0.000672	2.26	137.82	116.21	0.19
US Route 1-DS05	11345	25-Year	294.23	159.82	165.14		165.20	0.000631	2.28	170.79	120.11	0.18
US Route 1-DS05	11345	50-Year	349.20	159.82	165.39		165.44	0.000556	2.21	201.43	124.28	0.17
US Route 1-DS05	11345	100-Year	404.09	159.82	165.65		165.70	0.000478	2.12	234.56	128.63	0.16
US Route 1-DS05	11345	500-Year	534.19	159.82	166.02		166.08	0.000482	2.23	282.65	134.66	0.16
US Route 1-DS05	11325	2-Year	101.53	159.82	164.09		164.18	0.000716	2.56	53.29	76.05	0.22
US Route 1-DS05	11325	10-Year	227.02	159.82	164.64		164.88	0.001915	4.55	79.03	100.53	0.36
US Route 1-DS05	11325	25-Year	294.23	159.82	165.00		165.17	0.001447	4.15	115.95	104.14	0.32
US Route 1-DS05	11325	50-Year	349.20	159.82	165.30		165.42	0.001119	3.78	147.54	112.29	0.28
US Route 1-DS05	11325	100-Year	404.09	159.82	165.58		165.69	0.000865	3.44	181.34	123.04	0.25
US Route 1-DS05	11325	500-Year	534.19	159.82	165.96		166.06	0.000778	3.40	229.26	132.58	0.24
US Route 1-DS05	11270	2-Year	101.53	162.00	163.76		164.06	0.007638	4.67	27.18	33.28	0.69
US Route 1-DS05	11270	10-Year	227.02	162.00	164.52		164.74	0.003315	4.09	69.68	79.91	0.49
US Route 1-DS05	11270	25-Year	294.23	162.00	164.85		165.06	0.002436	3.86	97.04	89.50	0.43
US Route 1-DS05	11270	50-Year	349.20	162.00	165.15		165.34	0.001786	3.56	124.20	92.65	0.37
US Route 1-DS05	11270	100-Year	404.09	162.00	165.45		165.62	0.001380	3.34	151.83	95.15	0.33
US Route 1-DS05	11270	500-Year	534.19	162.00	165.78		165.99	0.001401	3.61	184.39	98.02	0.34
US Route 1-DS05	11045	2-Year	135.99	160.20	162.05	161.69	162.41	0.006991	4.90	31.36	31.87	0.68
US Route 1-DS05	11045	10-Year	277.18	160.20	162.59	162.30	163.38	0.010504	7.28	50.73	77.31	0.87
US Route 1-DS05	11045	25-Year	384.12	160.20	163.03	163.03	163.92	0.009900	7.97	73.48	96.27	0.87
US Route 1-DS05	11045	50-Year	483.66	160.20	163.36	163.36	164.35	0.009741	8.57	92.29	106.78	0.88
US Route 1-DS05	11045	100-Year	572.84	160.20	163.54	163.54	164.71	0.010859	9.41	102.99	114.71	0.94
US Route 1-DS05	11045	500-Year	778.28	160.20	164.42	164.42	165.25	0.006417	8.53	220.41	158.16	0.75
US Route 1-DS05	10845	2-Year	135.99	158.40	159.78	159.78	160.28	0.017127	5.73	25.60	29.93	0.98
US Route 1-DS05	10845	10-Year	277.18	158.40	160.46	160.46	161.08	0.011811	6.62	59.68	62.28	0.89
US Route 1-DS05	10845	25-Year	384.12	158.40	160.78	160.78	161.52	0.011487	7.34	80.84	66.10	0.90
US Route 1-DS05	10845	50-Year	483.66	158.40	161.06	161.06	161.88	0.011133	7.85	99.50	69.09	0.91
US Route 1-DS05	10845	100-Year	572.84	158.40	161.27	161.27	162.16	0.011104	8.31	114.15	70.77	0.92
US Route 1-DS05	10845	500-Year	778.28	158.40	161.71	161.71	162.74	0.010820	9.13	146.38	74.34	0.93
US Route 1-DS05	10795	2-Year	135.99	155.63	157.26	157.26	157.88	0.017937	6.33	21.50	17.56	1.01
US Route 1-DS05	10795	10-Year	277.18	155.63	158.04	158.04	158.96	0.016092	7.71	35.94	19.72	1.01
US Route 1-DS05	10795	25-Year	384.12	155.63	158.51	158.51	159.61	0.015385	8.41	45.66	21.04	1.01

Deadman Brook Natural Conditions

HEC-RAS Plan: Natural (Continued)

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
US Route 1-DS05	10795	50-Year	483.66	155.63	158.91	158.91	160.14	0.014904	8.93	54.17	22.14	1.01
US Route 1-DS05	10795	100-Year	572.84	155.63	159.23	159.23	160.58	0.014613	9.33	61.41	23.03	1.01
US Route 1-DS05	10795	500-Year	778.28	155.63	159.90	159.90	161.46	0.013890	10.02	77.64	24.92	1.00
US Route 1-DS05	10715	2-Year	135.99	153.93	156.43		156.60	0.002760	3.34	42.20	22.70	0.41
US Route 1-DS05	10715	10-Year	277.18	153.93	157.32		157.65	0.003502	4.67	63.29	24.69	0.49
US Route 1-DS05	10715	25-Year	384.12	153.93	157.84		158.29	0.003915	5.44	76.61	25.87	0.52
US Route 1-DS05	10715	50-Year	483.66	153.93	158.29		158.84	0.004160	6.02	88.61	27.40	0.54
US Route 1-DS05	10715	100-Year	572.84	153.93	158.64		159.28	0.004414	6.51	98.42	28.80	0.56
US Route 1-DS05	10715	500-Year	778.28	153.93	159.32		160.17	0.005031	7.54	118.75	31.56	0.61
US Route 1-DS05	10665	2-Year	135.99	154.20	155.71	155.71	156.28	0.016091	6.13	24.52	24.76	0.98
US Route 1-DS05	10665	10-Year	277.18	154.20	156.41	156.41	157.28	0.013840	7.69	43.47	28.85	0.98
US Route 1-DS05	10665	25-Year	384.12	154.20	156.86	156.86	157.91	0.012761	8.49	56.89	30.99	0.97
US Route 1-DS05	10665	50-Year	483.66	154.20	157.19	157.19	158.43	0.012799	9.29	67.60	33.60	1.00
US Route 1-DS05	10665	100-Year	572.84	154.20	157.52	157.52	158.87	0.011986	9.71	79.29	36.92	0.98
US Route 1-DS05	10665	500-Year	778.28	154.20	158.21	158.21	159.74	0.010709	10.51	106.82	43.46	0.96
US Route 1-DS05	10470	2-Year	135.99	149.40	150.86	150.86	151.41	0.016307	6.01	25.00	26.93	0.98
US Route 1-DS05	10470	10-Year	277.18	149.40	151.54	151.54	152.37	0.013918	7.52	44.85	31.50	0.97
US Route 1-DS05	10470	25-Year	384.12	149.40	151.95	151.95	152.96	0.013145	8.36	58.39	33.97	0.98
US Route 1-DS05	10470	50-Year	483.66	149.40	152.30	152.30	153.46	0.012529	8.98	70.73	36.39	0.98
US Route 1-DS05	10470	100-Year	572.84	149.40	152.59	152.59	153.86	0.012056	9.46	81.71	38.46	0.98
US Route 1-DS05	10470	500-Year	778.28	149.40	153.21	153.21	154.70	0.011236	10.38	106.66	42.99	0.97
US Route 1-DS05	10280	2-Year	135.99	145.20	147.12		147.20	0.001653	2.30	67.09	53.11	0.33
US Route 1-DS05	10280	10-Year	277.18	145.20	147.79		147.94	0.001961	3.19	106.30	63.53	0.38
US Route 1-DS05	10280	25-Year	384.12	145.20	147.96		148.20	0.002924	4.09	117.05	66.10	0.47
US Route 1-DS05	10280	50-Year	483.66	145.20	148.07		148.42	0.003928	4.89	124.65	67.30	0.55
US Route 1-DS05	10280	100-Year	572.84	145.20	148.15		148.60	0.004929	5.59	130.00	67.87	0.61
US Route 1-DS05	10280	500-Year	778.28	145.20	148.25	147.92	149.02	0.007871	7.25	137.27	68.64	0.78
US Route 1-DS05	10220	2-Year	135.99	143.00	147.14		147.16	0.000174	1.27	141.19	95.83	0.11
US Route 1-DS05	10220	10-Year	277.18	143.00	147.84		147.87	0.000256	1.71	210.29	100.63	0.14
US Route 1-DS05	10220	25-Year	384.12	143.00	148.04		148.09	0.000379	2.14	230.92	102.06	0.17
US Route 1-DS05	10220	50-Year	483.66	143.00	148.20		148.27	0.000495	2.50	247.26	103.31	0.19
US Route 1-DS05	10220	100-Year	572.84	143.00	148.33		148.42	0.000599	2.79	260.48	104.30	0.21
US Route 1-DS05	10220	500-Year	778.28	143.00	148.59		148.72	0.000831	3.39	287.68	106.32	0.25
US Route 1-DS05	10195	2-Year	135.99	143.00	147.11		147.15	0.000243	1.50	91.93	93.73	0.13
US Route 1-DS05	10195	10-Year	277.18	143.00	147.81		147.86	0.000366	2.04	168.34	121.88	0.16
US Route 1-DS05	10195	25-Year	384.12	143.00	148.01		148.08	0.000501	2.45	192.50	123.00	0.19
US Route 1-DS05	10195	50-Year	483.66	143.00	148.16		148.26	0.000617	2.77	211.61	124.21	0.22
US Route 1-DS05	10195	100-Year	572.84	143.00	148.29		148.40	0.000712	3.03	227.09	125.19	0.23
US Route 1-DS05	10195	500-Year	778.28	143.00	148.54		148.69	0.000905	3.52	259.06	127.18	0.26
US Route 1-DS05	10155	2-Year	135.99	144.40	146.49	146.49	147.07	0.011885	6.60	23.73	59.49	0.88
US Route 1-DS05	10155	10-Year	277.18	144.40	147.50	147.50	147.80	0.004689	5.63	79.75	128.89	0.60
US Route 1-DS05	10155	25-Year	384.12	144.40	147.66	147.66	148.01	0.005363	6.26	101.11	130.08	0.65
US Route 1-DS05	10155	50-Year	483.66	144.40	147.79	147.79	148.17	0.005915	6.76	117.26	130.97	0.68
US Route 1-DS05	10155	100-Year	572.84	144.40	147.88	147.88	148.30	0.006350	7.15	130.00	131.67	0.71
US Route 1-DS05	10155	500-Year	778.28	144.40	148.08	148.08	148.58	0.007206	7.93	155.35	132.97	0.77
US Route 1-DS05	10115	2-Year	135.99	141.50	144.64		145.11	0.007414	5.58	25.64	13.08	0.55
US Route 1-DS05	10115	10-Year	277.18	141.50	145.46	145.46	146.35	0.011245	8.02	40.23	25.23	0.71
US Route 1-DS05	10115	25-Year	384.12	141.50	146.13	146.13	146.88	0.008729	7.84	61.88	39.81	0.64
US Route 1-DS05	10115	50-Year	483.66	141.50	146.44	146.44	147.23	0.008833	8.24	75.25	45.20	0.65
US Route 1-DS05	10115	100-Year	572.84	141.50	146.67	146.67	147.50	0.009019	8.58	86.02	49.12	0.66
US Route 1-DS05	10115	500-Year	778.28	141.50	147.39	147.39	147.86	0.005124	7.05	163.62	158.00	0.51
US Route 1-DS05	10090	2-Year	135.99	141.50	143.66	143.66	144.75	0.025569	8.38	16.22	7.50	1.00
US Route 1-DS05	10090	10-Year	277.18	141.50	145.16	145.16	145.64	0.008194	6.49	60.81	56.11	0.60
US Route 1-DS05	10090	25-Year	384.12	141.50	145.41	145.41	145.97	0.009206	7.19	75.44	60.40	0.64
US Route 1-DS05	10090	50-Year	483.66	141.50	145.60	145.60	146.24	0.009949	7.72	87.54	63.92	0.67
US Route 1-DS05	10090	100-Year	572.84	141.50	145.77	145.77	146.46	0.010310	8.07	98.27	66.81	0.69
US Route 1-DS05	10090	500-Year	778.28	141.50	146.10	146.10	146.92	0.010920	8.73	121.42	101.00	0.72
US Route 1-DS05	10040	2-Year	135.99	140.60	142.56	142.56	143.23	0.013178	6.80	27.14	27.50	0.93
US Route 1-DS05	10040	10-Year	277.18	140.60	143.50	143.50	144.31	0.009955	7.94	63.71	51.52	0.87
US Route 1-DS05	10040	25-Year	384.12	140.60	143.77	143.77	144.91	0.012600	9.55	78.67	67.07	0.99
US Route 1-DS05	10040	50-Year	483.66	140.60	144.46	144.46	145.34	0.008046	8.81	134.50	98.38	0.82
US Route 1-DS05	10040	100-Year	572.84	140.60	144.73	144.73	145.63	0.007900	9.16	163.17	113.34	0.82
US Route 1-DS05	10040	500-Year	778.28	140.60	145.32	145.32	146.13	0.006703	9.29	239.00	139.04	0.78
US Route 1-DS05	9990	2-Year	135.99	138.87	141.93		142.19	0.003242	4.06	34.63	16.86	0.48
US Route 1-DS05	9990	10-Year	277.18	138.87	142.96		143.42	0.003623	5.52	56.89	29.01	0.54
US Route 1-DS05	9990	25-Year	384.12	138.87	143.57		144.13	0.003660	6.21	77.00	37.37	0.55
US Route 1-DS05	9990	50-Year	483.66	138.87	144.05		144.71	0.003740	6.78	96.82	47.53	0.57
US Route 1-DS05	9990	100-Year	572.84	138.87	144.60	143.44	145.22	0.003210	6.80	134.58	90.92	0.54
US Route 1-DS05	9990	500-Year	778.28	138.87	145.36	143.99	145.83	0.002418	6.49	223.91	136.42	0.48
US Route 1-DS05	9910	2-Year	135.99	139.00	140.94	140.94	141.67	0.013498	7.05	21.95	17.21	0.94
US Route 1-DS05	9910	10-Year	277.18	139.00	141.88	141.88	142.90	0.011249	8.56	40.92	23.20	0.92

Deadman Brook Natural Conditions

HEC-RAS Plan: Natural (Continued)

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
US Route 1-DS05	9910	25-Year	384.12	139.00	142.40	142.40	143.60	0.010750	9.43	54.00	26.44	0.93
US Route 1-DS05	9910	50-Year	483.66	139.00	142.84	142.84	144.17	0.010311	10.06	66.54	30.74	0.93
US Route 1-DS05	9910	100-Year	572.84	139.00	142.97	142.97	144.66	0.012591	11.38	70.58	32.03	1.03
US Route 1-DS05	9910	500-Year	778.28	139.00	144.27	144.27	145.46	0.006693	10.09	149.00	87.04	0.79
US Route 1-DS05	9850	FEMA "E"	139.27	138.37	140.30		140.71	0.010188	5.15	27.05	19.84	0.78
US Route 1-DS05	9850	FEMA "E"	283.54	138.37	140.84	140.84	141.68	0.013568	7.38	42.68	38.57	0.95
US Route 1-DS05	9850	FEMA "E"	391.55	138.37	141.31	141.31	142.24	0.011655	7.92	63.74	51.58	0.91
US Route 1-DS05	9850	FEMA "E"	494.02	138.37	141.69	141.69	142.67	0.010490	8.30	84.96	59.26	0.88
US Route 1-DS05	9850	FEMA "E"	586.97	138.37	141.97	141.97	143.02	0.010087	8.69	102.28	63.46	0.88
US Route 1-DS05	9850	FEMA "E"	799.85	138.37	142.50	142.50	143.72	0.009891	9.58	137.96	71.34	0.90
US Route 1-DS05	9630	2-Year	161.05	137.80	139.70		139.78	0.002096	2.77	166.87	259.32	0.37
US Route 1-DS05	9630	10-Year	338.47	137.80	140.27		140.35	0.001881	3.18	317.02	266.99	0.37
US Route 1-DS05	9630	25-Year	462.63	137.80	140.55		140.63	0.001966	3.51	391.67	271.54	0.39
US Route 1-DS05	9630	50-Year	584.63	137.80	140.84		140.93	0.001862	3.67	471.28	276.31	0.38
US Route 1-DS05	9630	100-Year	695.26	137.80	141.09		141.18	0.001754	3.77	542.65	279.97	0.38
US Route 1-DS05	9630	500-Year	966.08	137.80	141.66		141.75	0.001576	4.00	703.28	286.04	0.37
US Route 1-DS05	9430	2-Year	161.05	137.00	138.88	138.36	139.15	0.004769	4.18	45.69	242.08	0.56
US Route 1-DS05	9430	10-Year	338.47	137.00	139.56		139.80	0.003807	4.66	196.60	263.30	0.53
US Route 1-DS05	9430	25-Year	462.63	137.00	139.99		140.16	0.002693	4.37	310.05	267.66	0.46
US Route 1-DS05	9430	50-Year	584.63	137.00	140.38		140.52	0.002072	4.19	417.27	273.89	0.41
US Route 1-DS05	9430	100-Year	695.26	137.00	140.69		140.82	0.001802	4.15	502.59	278.82	0.39
US Route 1-DS05	9430	500-Year	966.08	137.00	141.32		141.44	0.001512	4.24	680.78	286.53	0.37
US Route 1-DS05	9230	2-Year	161.05	136.40	138.58		138.64	0.001252	2.26	124.39	165.17	0.29
US Route 1-DS05	9230	10-Year	338.47	136.40	139.47		139.52	0.000519	1.89	284.26	195.44	0.20
US Route 1-DS05	9230	25-Year	462.63	136.40	139.88		139.94	0.000458	1.95	366.97	203.99	0.19
US Route 1-DS05	9230	50-Year	584.63	136.40	140.28		140.34	0.000406	1.98	456.47	239.11	0.19
US Route 1-DS05	9230	100-Year	695.26	136.40	140.59		140.66	0.000368	2.00	533.43	248.73	0.18
US Route 1-DS05	9230	500-Year	966.08	136.40	141.23		141.30	0.000327	2.08	698.02	268.43	0.17
US Route 1-DS05	9180	2-Year	161.05	134.30	138.49		138.58	0.000938	2.71	77.26	80.84	0.23
US Route 1-DS05	9180	10-Year	338.47	134.30	139.39		139.48	0.000956	3.12	166.12	142.09	0.24
US Route 1-DS05	9180	25-Year	462.63	134.30	139.83		139.91	0.000780	2.98	236.47	176.69	0.22
US Route 1-DS05	9180	50-Year	584.63	134.30	140.25		140.31	0.000596	2.73	317.15	206.23	0.20
US Route 1-DS05	9180	100-Year	695.26	134.30	140.58		140.63	0.000490	2.56	387.62	228.11	0.18
US Route 1-DS05	9180	500-Year	966.08	134.30	141.23		141.28	0.000352	2.32	548.56	260.29	0.16
US Route 1-DS05	9155	2-Year	161.05	134.30	138.48		138.55	0.000876	2.62	81.89	72.22	0.23
US Route 1-DS05	9155	10-Year	338.47	134.30	139.36		139.45	0.000976	3.14	162.44	120.26	0.25
US Route 1-DS05	9155	25-Year	462.63	134.30	139.80		139.88	0.000848	3.09	219.66	141.62	0.23
US Route 1-DS05	9155	50-Year	584.63	134.30	140.22		140.30	0.000705	2.96	282.45	158.94	0.21
US Route 1-DS05	9155	100-Year	695.26	134.30	140.54		140.62	0.000634	2.91	335.80	173.36	0.21
US Route 1-DS05	9155	500-Year	966.08	134.30	141.19		141.26	0.000495	2.74	456.95	196.12	0.18
US Route 1-DS04	9110	2-Year	204.67	136.00	138.01	137.87	138.42	0.008003	5.55	42.60	38.43	0.73
US Route 1-DS04	9110	10-Year	421.77	136.00	138.57	138.57	139.28	0.010139	7.50	66.77	47.91	0.86
US Route 1-DS04	9110	25-Year	565.93	136.00	138.91	138.91	139.71	0.009760	8.06	84.33	53.75	0.87
US Route 1-DS04	9110	50-Year	722.59	136.00	139.24	139.24	140.13	0.009670	8.66	103.12	62.21	0.88
US Route 1-DS04	9110	100-Year	868.47	136.00	139.54	139.54	140.45	0.009051	8.93	123.34	71.07	0.86
US Route 1-DS04	9110	500-Year	1220.38	136.00	139.95	139.95	141.09	0.010074	10.18	154.46	82.50	0.93
US Route 1-DS04	9060	2-Year	204.67	132.93	137.43	137.43	137.97	0.012140	6.86	38.19	36.18	0.57
US Route 1-DS04	9060	10-Year	421.77	132.93	138.19	138.19	138.71	0.011226	7.31	78.15	71.48	0.56
US Route 1-DS04	9060	25-Year	565.93	132.93	138.42	138.42	139.02	0.012012	7.79	95.43	78.46	0.59
US Route 1-DS04	9060	50-Year	722.59	132.93	138.90		139.35	0.007484	6.50	137.29	95.99	0.47
US Route 1-DS04	9060	100-Year	868.47	132.93	139.34		139.70	0.004633	5.36	181.96	104.69	0.37
US Route 1-DS04	9060	500-Year	1220.38	132.93	140.14		140.46	0.002786	4.50	270.82	119.65	0.30
US Route 1-DS04	9025	2-Year	204.67	132.93	137.10	137.10	137.51	0.010597	5.79	43.13	55.67	0.50
US Route 1-DS04	9025	10-Year	421.77	132.93	137.79	137.56	138.27	0.005756	4.72	86.53	68.76	0.38
US Route 1-DS04	9025	25-Year	565.93	132.93	138.23	137.87	138.74	0.004058	4.21	118.99	76.03	0.32
US Route 1-DS04	9025	50-Year	722.59	132.93	138.67	138.16	139.19	0.003207	3.94	153.84	85.56	0.29
US Route 1-DS04	9025	100-Year	868.47	132.93	139.01	138.40	139.56	0.002782	3.82	184.66	91.54	0.27
US Route 1-DS04	9025	500-Year	1220.38	132.93	139.74		140.35	0.002122	3.59	253.44	96.95	0.24
US Route 1-DS04	8975	2-Year	204.67	134.20	136.28	136.28	136.85	0.010905	6.52	47.99	48.80	0.86
US Route 1-DS04	8975	10-Year	421.77	134.20	137.01	137.01	137.84	0.011500	8.39	86.55	57.62	0.93
US Route 1-DS04	8975	25-Year	565.93	134.20	137.40	137.40	138.37	0.011574	9.26	110.27	63.88	0.96
US Route 1-DS04	8975	50-Year	722.59	134.20	137.79	137.79	138.86	0.011185	9.92	136.97	70.26	0.96
US Route 1-DS04	8975	100-Year	868.47	134.20	138.15	138.15	139.26	0.010548	10.31	162.79	74.67	0.95
US Route 1-DS04	8975	500-Year	1220.38	134.20	138.75	138.75	140.08	0.010871	11.58	209.21	79.07	0.99
US Route 1-DS04	8835	2-Year	204.67	131.20	133.29		133.61	0.006291	4.98	48.25	43.60	0.65
US Route 1-DS04	8835	10-Year	421.77	131.20	133.73	133.70	134.38	0.009868	7.22	69.27	50.46	0.85
US Route 1-DS04	8835	25-Year	565.93	131.20	134.01	134.01	134.80	0.010586	8.08	83.65	54.73	0.89
US Route 1-DS04	8835	50-Year	722.59	131.20	134.35	134.35	135.21	0.010137	8.59	103.64	63.55	0.89
US Route 1-DS04	8835	100-Year	868.47	131.20	134.65	134.65	135.53	0.009370	8.84	125.22	84.63	0.87
US Route 1-DS04	8835	500-Year	1220.38	131.20	135.29	135.29	136.08	0.007267	8.79	189.63	109.26	0.79
US Route 1-DS04	8695	2-Year	204.67	130.60	132.53		132.74	0.005413	4.00	62.89	68.46	0.58

Deadman Brook Natural Conditions

HEC-RAS Plan: Natural (Continued)

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
US Route 1-DS04	8695	10-Year	421.77	130.60	133.53		133.67	0.002077	3.52	157.16	116.05	0.40
US Route 1-DS04	8695	25-Year	565.93	130.60	133.83		133.99	0.002138	3.85	193.43	126.60	0.41
US Route 1-DS04	8695	50-Year	722.59	130.60	134.11		134.29	0.002165	4.14	230.87	137.69	0.42
US Route 1-DS04	8695	100-Year	868.47	130.60	134.33		134.53	0.002231	4.40	261.45	143.70	0.43
US Route 1-DS04	8695	500-Year	1220.38	130.60	134.81		135.05	0.002280	4.87	333.37	156.94	0.44
US Route 1-DS04	8645	2-Year	204.67	129.40	131.50	131.50	132.27	0.012785	7.28	35.01	29.38	0.93
US Route 1-DS04	8645	10-Year	421.77	129.40	132.74	132.74	133.43	0.006922	7.50	95.64	87.17	0.75
US Route 1-DS04	8645	25-Year	565.93	129.40	133.21	133.21	133.78	0.005513	7.34	141.95	128.77	0.68
US Route 1-DS04	8645	50-Year	722.59	129.40	133.43	133.43	134.07	0.006108	8.04	171.08	132.56	0.73
US Route 1-DS04	8645	100-Year	868.47	129.40	133.64	133.64	134.30	0.006239	8.43	199.44	136.14	0.74
US Route 1-DS04	8645	500-Year	1220.38	129.40	133.95	133.95	134.79	0.007672	9.82	242.75	141.44	0.83
US Route 1-DS04	8555	2-Year	204.67	127.00	130.09	130.09	130.54	0.006559	6.65	77.04	82.63	0.70
US Route 1-DS04	8555	10-Year	421.77	127.00	130.68	130.68	131.31	0.008683	8.71	127.95	88.28	0.84
US Route 1-DS04	8555	25-Year	565.93	127.00	130.98	130.98	131.70	0.009663	9.73	154.70	91.10	0.89
US Route 1-DS04	8555	50-Year	722.59	127.00	131.28	131.28	132.06	0.010143	10.49	182.05	93.88	0.93
US Route 1-DS04	8555	100-Year	868.47	127.00	131.49	131.49	132.35	0.010890	11.26	202.56	95.90	0.97
US Route 1-DS04	8555	500-Year	1220.38	127.00	131.99	131.99	132.97	0.011611	12.53	251.16	100.54	1.02
US Route 1-DS04	8550	2-Year	204.67	123.60	128.34	128.34	129.01	0.005463	7.73	62.89	52.23	0.66
US Route 1-DS04	8550	10-Year	421.77	123.60	129.39	129.39	130.10	0.005867	9.28	141.18	93.37	0.71
US Route 1-DS04	8550	25-Year	565.93	123.60	129.75	129.75	130.53	0.006563	10.25	176.37	100.21	0.76
US Route 1-DS04	8550	50-Year	722.59	123.60	130.14	130.14	130.91	0.006653	10.78	216.00	105.68	0.77
US Route 1-DS04	8550	100-Year	868.47	123.60	130.35	130.35	131.20	0.007421	11.65	238.57	106.97	0.82
US Route 1-DS04	8550	500-Year	1220.38	123.60	130.81	130.81	131.80	0.008747	13.26	288.62	109.76	0.90
US Route 1-DS04	8410	2-Year	204.67	121.60	123.60	123.60	124.30	0.013052	7.03	38.43	34.29	0.93
US Route 1-DS04	8410	10-Year	421.77	121.60	124.51	124.51	125.48	0.011399	8.66	75.03	45.10	0.93
US Route 1-DS04	8410	25-Year	565.93	121.60	124.98	124.98	126.09	0.010962	9.45	97.21	49.71	0.94
US Route 1-DS04	8410	50-Year	722.59	121.60	125.42	125.42	126.66	0.010664	10.17	119.98	53.66	0.95
US Route 1-DS04	8410	100-Year	868.47	121.60	125.74	125.74	127.14	0.010991	10.93	137.61	56.51	0.97
US Route 1-DS04	8410	500-Year	1220.38	121.60	126.83	126.83	128.02	0.007437	10.59	209.79	77.73	0.83
US Route 1-DS04	8260	2-Year	204.67	98.20	99.16	99.16	99.57	0.019447	5.13	39.98	50.81	1.01
US Route 1-DS04	8260	10-Year	421.77	98.20	100.05		100.43	0.006769	4.97	89.34	59.57	0.67
US Route 1-DS04	8260	25-Year	565.93	98.20	100.86		101.16	0.003260	4.47	139.40	65.01	0.50
US Route 1-DS04	8260	50-Year	722.59	98.20	101.46		101.77	0.002541	4.55	179.78	69.24	0.45
US Route 1-DS04	8260	100-Year	868.47	98.20	101.94		102.27	0.002238	4.70	213.78	72.66	0.44
US Route 1-DS04	8260	500-Year	1220.38	98.20	102.92		103.30	0.001918	5.11	288.67	80.72	0.42
US Route 1-DS03	8210	2-Year	209.87	95.00	97.65	97.65	98.49	0.012409	7.83	38.05	27.26	0.94
US Route 1-DS03	8210	10-Year	432.74	95.00	98.75	98.75	99.94	0.011049	9.71	72.37	35.06	0.95
US Route 1-DS03	8210	25-Year	579.99	95.00	99.12	99.12	100.74	0.013328	11.46	85.93	39.50	1.06
US Route 1-DS03	8210	50-Year	741.89	95.00	100.16	100.16	101.47	0.008176	10.62	139.32	60.83	0.86
US Route 1-DS03	8210	100-Year	893.64	95.00	100.55	100.55	101.97	0.008309	11.29	163.76	64.20	0.88
US Route 1-DS03	8210	500-Year	1260.36	95.00	101.38	101.38	103.00	0.008414	12.57	219.63	70.80	0.91
US Route 1-DS03	8130	2-Year	209.87	93.80	96.12	96.12	96.88	0.011995	7.27	39.44	33.20	0.91
US Route 1-DS03	8130	10-Year	432.74	93.80	97.06	97.06	98.20	0.011769	9.31	73.74	40.96	0.96
US Route 1-DS03	8130	25-Year	579.99	93.80	97.63	97.63	98.90	0.010760	10.02	99.24	48.72	0.95
US Route 1-DS03	8130	50-Year	741.89	93.80	98.19	98.19	99.55	0.009808	10.57	128.66	55.91	0.93
US Route 1-DS03	8130	100-Year	893.64	93.80	98.60	98.60	100.07	0.009614	11.17	152.79	60.56	0.93
US Route 1-DS03	8130	500-Year	1260.36	93.80	99.46	99.46	101.15	0.009291	12.35	209.10	69.94	0.94
US Route 1-DS03	8080	2-Year	209.87	90.70	95.27		95.43	0.002014	3.75	96.61	47.22	0.31
US Route 1-DS03	8080	10-Year	432.74	90.70	96.49		96.74	0.002675	5.05	160.54	58.82	0.37
US Route 1-DS03	8080	25-Year	579.99	90.70	97.08		97.38	0.002986	5.70	197.52	67.18	0.40
US Route 1-DS03	8080	50-Year	741.89	90.70	97.40		97.78	0.003734	6.58	219.96	75.51	0.45
US Route 1-DS03	8080	100-Year	893.64	90.70	97.58		98.06	0.004634	7.46	234.03	80.30	0.50
US Route 1-DS03	8080	500-Year	1260.36	90.70	98.00		98.68	0.006339	9.08	270.04	91.42	0.59
US Route 1-DS03	8050	2-Year	209.87	90.70	94.81	93.87	95.25	0.005497	5.75	59.21	39.45	0.50
US Route 1-DS03	8050	10-Year	432.74	90.70	95.42	95.42	96.43	0.011775	9.22	85.72	47.97	0.75
US Route 1-DS03	8050	25-Year	579.99	90.70	95.95	95.95	97.05	0.012108	10.04	113.01	54.69	0.77
US Route 1-DS03	8050	50-Year	741.89	90.70	96.82	96.82	97.51	0.007394	8.69	175.48	89.93	0.62
US Route 1-DS03	8050	100-Year	893.64	90.70	97.07	97.07	97.76	0.007573	9.03	198.93	98.81	0.63
US Route 1-DS03	8050	500-Year	1260.36	90.70	97.81	97.47	98.35	0.005606	8.36	274.30	104.63	0.55
US Route 1-DS03	8030	2-Year	209.87	92.20	94.78		95.12	0.004415	4.89	55.76	39.31	0.57
US Route 1-DS03	8030	10-Year	432.74	92.20	95.25	94.99	96.17	0.009503	8.12	76.90	53.43	0.86
US Route 1-DS03	8030	25-Year	579.99	92.20	95.71	95.71	96.78	0.009417	8.94	105.82	73.17	0.87
US Route 1-DS03	8030	50-Year	741.89	92.20	96.35	96.35	97.24	0.006793	8.57	161.22	94.82	0.77
US Route 1-DS03	8030	100-Year	893.64	92.20	96.66	96.66	97.57	0.006685	8.94	191.45	101.39	0.77
US Route 1-DS03	8030	500-Year	1260.36	92.20	97.27	97.27	98.19	0.006289	9.50	257.20	110.95	0.76
US Route 1-DS03	8010	2-Year	209.87	90.10	94.41	93.22	94.98	0.008402	6.40	48.27	36.66	0.54
US Route 1-DS03	8010	10-Year	432.74	90.10	95.37	95.37	95.87	0.007686	7.00	99.45	71.96	0.54
US Route 1-DS03	8010	25-Year	579.99	90.10	95.64	95.64	96.13	0.007859	7.31	127.69	112.91	0.55
US Route 1-DS03	8010	50-Year	741.89	90.10	95.84	95.84	96.36	0.008203	7.65	150.67	114.58	0.56
US Route 1-DS03	8010	100-Year	893.64	90.10	95.97	95.97	96.55	0.008961	8.12	165.95	115.57	0.59
US Route 1-DS03	8010	500-Year	1260.36	90.10	96.24	96.24	96.99	0.010435	9.03	197.30	117.63	0.64

Deadman Brook Natural Conditions

HEC-RAS Plan: Natural (Continued)

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
US Route 1-DS03	7990	2-Year	209.87	89.60	94.24	94.24	94.74	0.011826	6.50	41.23	40.98	0.53
US Route 1-DS03	7990	10-Year	432.74	89.60	94.85	94.85	95.50	0.014594	7.84	71.96	67.32	0.60
US Route 1-DS03	7990	25-Year	579.99	89.60	95.24	95.24	95.76	0.011038	7.15	107.06	97.89	0.53
US Route 1-DS03	7990	50-Year	741.89	89.60	95.42	95.42	96.01	0.011615	7.49	125.21	100.91	0.55
US Route 1-DS03	7990	100-Year	893.64	89.60	95.57	95.57	96.24	0.012173	7.80	140.15	103.32	0.56
US Route 1-DS03	7990	500-Year	1260.36	89.60	95.93	95.93	96.72	0.011873	8.01	178.66	109.30	0.56
US Route 1-DS03	7980	2-Year	209.87	87.70	92.08	92.08	94.31	0.052132	11.98	17.52	4.00	1.01
US Route 1-DS03	7980	10-Year	432.74	87.70	94.09	94.09	94.75	0.013529	7.59	69.32	51.38	0.53
US Route 1-DS03	7980	25-Year	579.99	87.70	94.49	94.49	95.17	0.013347	7.86	93.01	75.59	0.53
US Route 1-DS03	7980	50-Year	741.89	87.70	94.88	94.88	95.45	0.010116	7.10	129.26	99.02	0.47
US Route 1-DS03	7980	100-Year	893.64	87.70	95.03	95.03	95.68	0.010795	7.43	143.95	101.16	0.48
US Route 1-DS03	7980	500-Year	1260.36	87.70	95.36	95.36	96.17	0.011351	7.85	178.24	104.49	0.50
US Route 1-DS03	7940	2-Year	209.87	87.70	90.08	90.08	91.29	0.022713	8.80	23.84	10.00	1.00
US Route 1-DS03	7940	10-Year	432.74	87.70	91.56	91.56	93.51	0.024615	11.20	38.65	60.35	1.00
US Route 1-DS03	7940	25-Year	579.99	87.70	92.70	92.70	93.09	0.005495	6.18	137.62	148.59	0.49
US Route 1-DS03	7940	50-Year	741.89	87.70	92.82	92.82	93.29	0.006562	6.86	155.65	151.60	0.53
US Route 1-DS03	7940	100-Year	893.64	87.70	92.96	92.96	93.46	0.006776	7.09	176.54	154.10	0.54
US Route 1-DS03	7940	500-Year	1260.36	87.70	95.04	93.19	95.13	0.000454	2.29	544.66	193.38	0.15
US Route 1-DS03	7900	FEMA "D"	209.87	86.20	88.89	88.89	89.67	0.011816	7.50	39.03	31.54	0.90
US Route 1-DS03	7900	FEMA "D"	432.74	86.20	89.90	89.90	90.96	0.010812	9.27	75.92	40.00	0.92
US Route 1-DS03	7900	FEMA "D"	579.99	86.20	90.40	90.40	91.64	0.010907	10.25	96.82	44.77	0.94
US Route 1-DS03	7900	FEMA "D"	741.89	86.20	90.91	90.91	92.29	0.010528	10.99	121.23	50.17	0.95
US Route 1-DS03	7900	FEMA "D"	893.64	86.20	90.96	90.96	92.89	0.014608	13.04	123.56	50.66	1.12
US Route 1-DS03	7900	FEMA "D"	1260.36	86.20	91.02	91.02	94.72	0.027472	18.07	126.82	69.50	1.54
US Route 1-DS02	7790	2-Year	237.68	85.00	87.38	87.35	88.06	0.010455	7.00	50.56	46.08	0.86
US Route 1-DS02	7790	10-Year	487.24	85.00	88.28	88.28	89.21	0.010093	8.74	100.13	62.14	0.89
US Route 1-DS02	7790	25-Year	653.84	85.00	88.73	88.73	89.79	0.010100	9.60	128.91	66.78	0.91
US Route 1-DS02	7790	50-Year	822.00	85.00	89.05	89.05	90.31	0.010941	10.61	151.23	70.69	0.97
US Route 1-DS02	7790	100-Year	997.68	85.00	89.47	89.47	90.81	0.010546	11.17	182.20	78.90	0.96
US Route 1-DS02	7790	500-Year	1454.01	85.00	89.94	89.94	91.97	0.014371	14.01	221.66	88.28	1.15
US Route 1-DS02	7680	2-Year	237.68	84.60	86.13	86.13	86.64	0.015242	5.78	42.55	44.41	0.95
US Route 1-DS02	7680	10-Year	487.24	84.60	86.80	86.80	87.48	0.011820	6.89	77.24	59.44	0.90
US Route 1-DS02	7680	25-Year	653.84	84.60	87.08	87.08	87.90	0.012061	7.66	95.07	66.33	0.93
US Route 1-DS02	7680	50-Year	822.00	84.60	87.52	87.52	88.25	0.008703	7.39	133.16	96.38	0.81
US Route 1-DS02	7680	100-Year	997.68	84.60	87.93	87.93	88.54	0.006523	7.06	180.66	131.02	0.72
US Route 1-DS02	7680	500-Year	1454.01	84.60	88.48		89.08	0.005389	7.18	254.47	137.13	0.68
US Route 1-DS02	7640	2-Year	237.68	83.00	85.09	85.02	85.51	0.009030	5.61	49.59	50.59	0.77
US Route 1-DS02	7640	10-Year	487.24	83.00	86.25		86.52	0.003248	4.80	124.61	77.67	0.50
US Route 1-DS02	7640	25-Year	653.84	83.00	86.79		87.05	0.002548	4.78	169.19	88.88	0.46
US Route 1-DS02	7640	50-Year	822.00	83.00	87.29		87.54	0.002057	4.71	216.65	98.77	0.42
US Route 1-DS02	7640	100-Year	997.68	83.00	87.70		87.95	0.001864	4.80	258.55	106.31	0.41
US Route 1-DS02	7640	500-Year	1454.01	83.00	88.56		88.85	0.001733	5.23	360.79	137.54	0.41
US Route 1-DS02	7610	2-Year	237.68	82.20	85.03		85.30	0.004260	4.90	64.05	58.70	0.56
US Route 1-DS02	7610	10-Year	487.24	82.20	86.24		86.43	0.001962	4.37	149.40	85.58	0.41
US Route 1-DS02	7610	25-Year	653.84	82.20	86.78		86.97	0.001717	4.49	200.96	105.38	0.39
US Route 1-DS02	7610	50-Year	822.00	82.20	87.30		87.47	0.001354	4.31	259.31	116.27	0.35
US Route 1-DS02	7610	100-Year	997.68	82.20	87.71		87.89	0.001195	4.29	308.57	120.39	0.34
US Route 1-DS02	7610	500-Year	1454.01	82.20	88.58		88.78	0.001118	4.61	420.21	139.98	0.33
US Route 1-DS02	7550	2-Year	237.68	81.60	84.94		85.09	0.001345	3.21	97.47	70.41	0.33
US Route 1-DS02	7550	10-Year	487.24	81.60	85.95		86.26	0.002009	4.76	161.65	128.92	0.42
US Route 1-DS02	7550	25-Year	653.84	81.60	86.35		86.79	0.002515	5.68	213.94	141.53	0.48
US Route 1-DS02	7550	50-Year	822.00	81.60	86.87		87.31	0.002346	5.91	291.06	154.22	0.47
US Route 1-DS02	7550	100-Year	997.68	81.60	87.26		87.73	0.002403	6.29	353.05	165.03	0.48
US Route 1-DS02	7550	500-Year	1454.01	81.60	88.08		88.62	0.002545	7.13	497.45	190.52	0.51
US Route 1-DS02	7505	2-Year	237.68	80.03	84.89		85.04	0.000952	3.28	91.32	40.74	0.29
US Route 1-DS02	7505	10-Year	487.24	80.03	85.86		86.18	0.001676	5.02	155.62	87.37	0.39
US Route 1-DS02	7505	25-Year	653.84	80.03	86.24		86.68	0.002159	5.98	191.10	97.97	0.45
US Route 1-DS02	7505	50-Year	822.00	80.03	86.71		87.20	0.002281	6.50	239.47	107.39	0.47
US Route 1-DS02	7505	100-Year	997.68	80.03	87.04		87.61	0.002562	7.14	276.31	114.12	0.51
US Route 1-DS02	7505	500-Year	1454.01	80.03	87.70		88.47	0.003277	8.64	356.35	128.59	0.58
US Route 1-DS02	7440	2-Year	237.68	80.52	84.72		84.95	0.002213	4.01	64.98	30.02	0.41
US Route 1-DS02	7440	10-Year	487.24	80.52	85.53		86.01	0.003881	6.03	94.74	46.71	0.55
US Route 1-DS02	7440	25-Year	653.84	80.52	85.60	85.04	86.42	0.006462	7.88	98.03	48.60	0.72
US Route 1-DS02	7440	50-Year	822.00	80.52	85.76	85.76	86.89	0.008482	9.29	106.36	53.09	0.83
US Route 1-DS02	7440	100-Year	997.68	80.52	86.22	86.22	87.31	0.007410	9.34	133.31	64.34	0.79
US Route 1-DS02	7440	500-Year	1454.01	80.52	86.95	86.95	88.14	0.007103	10.14	185.94	80.03	0.79
US Route 1-DS02	7420	2-Year	237.68	80.25	84.22	83.03	84.84	0.008156	6.42	41.28	38.45	0.57
US Route 1-DS02	7420	10-Year	487.24	80.25	85.64		85.88	0.003182	4.91	138.26	99.91	0.37
US Route 1-DS02	7420	25-Year	653.84	80.25	85.88		86.18	0.003821	5.54	163.93	110.95	0.41
US Route 1-DS02	7420	50-Year	822.00	80.25	86.09		86.44	0.004290	6.02	187.89	118.95	0.44
US Route 1-DS02	7420	100-Year	997.68	80.25	86.29		86.68	0.004579	6.36	212.19	124.75	0.46
US Route 1-DS02	7420	500-Year	1454.01	80.25	86.70		87.21	0.005255	7.12	266.77	136.90	0.49

Deadman Brook Natural Conditions

HEC-RAS Plan: Natural (Continued)

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
US Route 1-DS02	7395	2-Year	237.68	80.25	83.03	83.03	84.43	0.024367	9.51	25.00	9.00	1.00
US Route 1-DS02	7395	10-Year	487.24	80.25	85.26	85.26	85.74	0.006453	6.67	105.89	99.29	0.52
US Route 1-DS02	7395	25-Year	653.84	80.25	85.48	85.48	86.03	0.007321	7.31	129.00	106.76	0.56
US Route 1-DS02	7395	50-Year	822.00	80.25	85.69	85.69	86.27	0.007732	7.71	151.88	113.68	0.58
US Route 1-DS02	7395	100-Year	997.68	80.25	85.87	85.87	86.51	0.008277	8.15	172.34	119.88	0.61
US Route 1-DS02	7395	500-Year	1454.01	80.25	86.26	86.26	87.02	0.008912	8.84	221.60	129.85	0.64
US Route 1-DS02	7345	2-Year	237.68	79.40	82.31	82.31	83.10	0.010465	7.82	35.56	22.96	0.87
US Route 1-DS02	7345	10-Year	487.24	79.40	83.39	83.39	84.43	0.009340	9.41	65.82	35.73	0.88
US Route 1-DS02	7345	25-Year	653.84	79.40	83.95	83.95	85.02	0.008471	9.87	88.89	46.82	0.86
US Route 1-DS02	7345	50-Year	822.00	79.40	84.67	84.67	85.52	0.006238	9.42	135.75	86.01	0.75
US Route 1-DS02	7345	100-Year	997.68	79.40	85.06	85.06	85.83	0.005529	9.34	173.63	107.29	0.72
US Route 1-DS02	7345	500-Year	1454.01	79.40	85.55	85.55	86.43	0.005971	10.31	231.61	126.88	0.76
US Route 1-DS02	7240	2-Year	237.68	77.80	79.49	79.49	80.08	0.016372	6.21	40.66	39.24	0.99
US Route 1-DS02	7240	10-Year	487.24	77.80	80.23	80.23	81.12	0.013461	7.72	73.01	47.37	0.97
US Route 1-DS02	7240	25-Year	653.84	77.80	80.62	80.62	81.68	0.012710	8.48	92.45	50.47	0.97
US Route 1-DS02	7240	50-Year	822.00	77.80	80.98	80.98	82.20	0.012335	9.16	110.64	53.21	0.98
US Route 1-DS02	7240	100-Year	997.68	77.80	81.33	81.33	82.69	0.011812	9.73	130.33	57.77	0.98
US Route 1-DS02	7240	500-Year	1454.01	77.80	82.13	82.13	83.82	0.011032	10.97	180.64	69.48	0.98
US Route 1-DS02	7125	2-Year	237.68	75.20	76.70	76.66	77.27	0.014633	6.03	40.47	35.48	0.94
US Route 1-DS02	7125	10-Year	487.24	75.20	77.41	77.41	78.35	0.013738	7.84	68.14	42.84	0.98
US Route 1-DS02	7125	25-Year	653.84	75.20	77.84	77.84	78.95	0.012689	8.57	87.31	47.51	0.97
US Route 1-DS02	7125	50-Year	822.00	75.20	78.22	78.22	79.48	0.011935	9.18	106.52	51.65	0.97
US Route 1-DS02	7125	100-Year	997.68	75.20	78.85	78.59	80.02	0.008626	8.93	140.99	58.49	0.85
US Route 1-DS02	7125	500-Year	1454.01	75.20	79.44	79.44	81.17	0.010438	10.93	178.62	69.34	0.96
US Route 1-DS02	6920	2-Year	237.68	71.60	73.61	73.61	74.40	0.013963	7.25	37.49	30.09	0.96
US Route 1-DS02	6920	10-Year	487.24	71.60	74.64	74.64	75.76	0.011234	8.84	76.27	45.57	0.93
US Route 1-DS02	6920	25-Year	653.84	71.60	75.21	75.21	76.46	0.010032	9.47	105.04	54.05	0.91
US Route 1-DS02	6920	50-Year	822.00	71.60	75.60	75.60	77.06	0.010532	10.42	126.48	58.97	0.95
US Route 1-DS02	6920	100-Year	997.68	71.60	75.65	75.65	77.73	0.014730	12.44	129.62	60.13	1.12
US Route 1-DS02	6920	500-Year	1454.01	71.60	77.23	77.23	78.63	0.007171	10.95	288.52	112.18	0.83
US Route 1-DS02	6720	2-Year	237.68	68.00	70.43	70.00	70.87	0.006299	5.49	57.18	40.88	0.67
US Route 1-DS02	6720	10-Year	487.24	68.00	71.54		72.15	0.005427	6.76	111.31	54.69	0.66
US Route 1-DS02	6720	25-Year	653.84	68.00	72.14		72.80	0.004963	7.25	145.58	59.71	0.65
US Route 1-DS02	6720	50-Year	822.00	68.00	72.76		73.43	0.004250	7.42	184.36	64.67	0.62
US Route 1-DS02	6720	100-Year	997.68	68.00	73.03		73.85	0.004926	8.31	201.95	66.77	0.68
US Route 1-DS02	6720	500-Year	1454.01	68.00	74.02		74.98	0.004723	9.24	271.90	73.81	0.68
US Route 1-DS02	6520	2-Year	237.68	66.00	68.19	68.19	69.08	0.013994	7.65	35.11	24.27	0.98
US Route 1-DS02	6520	10-Year	487.24	66.00	69.34	69.34	70.62	0.011258	9.39	69.50	37.54	0.95
US Route 1-DS02	6520	25-Year	653.84	66.00	69.98	69.98	71.40	0.010013	10.06	97.02	48.08	0.92
US Route 1-DS02	6520	50-Year	822.00	66.00	70.41	70.41	72.10	0.010498	11.08	119.42	57.73	0.96
US Route 1-DS02	6520	100-Year	997.68	66.00	71.27	71.27	72.66	0.007123	10.37	183.32	82.29	0.82
US Route 1-DS02	6520	500-Year	1454.01	66.00	72.15	72.15	73.78	0.007400	11.76	258.16	89.51	0.86
US Route 1-DS02	6320	2-Year	237.68	58.00	61.46		61.61	0.001278	3.28	91.76	46.09	0.32
US Route 1-DS02	6320	10-Year	487.24	58.00	62.65		62.93	0.001595	4.52	155.53	67.63	0.38
US Route 1-DS02	6320	25-Year	653.84	58.00	63.25		63.58	0.001701	5.07	198.80	76.35	0.40
US Route 1-DS02	6320	50-Year	822.00	58.00	63.77		64.14	0.001752	5.50	239.66	79.82	0.41
US Route 1-DS02	6320	100-Year	997.68	58.00	64.23		64.65	0.001840	5.95	276.94	83.58	0.43
US Route 1-DS02	6320	500-Year	1454.01	58.00	65.17		65.73	0.002091	6.99	360.69	93.22	0.47
US Route 1-DS02	6270	2-Year	237.68	52.83	61.31		61.52	0.002824	4.10	92.48	39.96	0.25
US Route 1-DS02	6270	10-Year	487.24	52.83	62.42		62.79	0.004907	5.86	142.83	51.23	0.33
US Route 1-DS02	6270	25-Year	653.84	52.83	62.97		63.42	0.005796	6.61	172.72	56.88	0.37
US Route 1-DS02	6270	50-Year	822.00	52.83	63.48		63.98	0.006301	7.12	202.89	61.77	0.38
US Route 1-DS02	6270	100-Year	997.68	52.83	63.92		64.48	0.006755	7.58	231.37	66.04	0.40
US Route 1-DS02	6270	500-Year	1454.01	52.83	64.86		65.54	0.007670	8.52	297.89	75.94	0.43
US Route 1-DS02	6245	2-Year	237.68	52.83	61.29		61.44	0.002366	3.74	100.94	40.92	0.23
US Route 1-DS02	6245	10-Year	487.24	52.83	62.38		62.65	0.004024	5.29	150.33	49.77	0.30
US Route 1-DS02	6245	25-Year	653.84	52.83	62.94		63.26	0.004750	5.97	179.23	55.16	0.33
US Route 1-DS02	6245	50-Year	822.00	52.83	63.44		63.81	0.005190	6.45	208.48	60.73	0.35
US Route 1-DS02	6245	100-Year	997.68	52.83	63.89		64.29	0.005565	6.86	236.65	65.73	0.36
US Route 1-DS02	6245	500-Year	1454.01	52.83	64.83		65.33	0.006114	7.59	302.69	74.24	0.39
US Route 1-DS02	6195	2-Year	237.68	58.20	60.48	60.48	61.16	0.012124	6.99	41.62	34.38	0.91
US Route 1-DS02	6195	10-Year	487.24	58.20	61.37	61.37	62.28	0.010452	8.43	77.27	44.73	0.90
US Route 1-DS02	6195	25-Year	653.84	58.20	61.80	61.80	62.86	0.010107	9.16	97.76	48.49	0.91
US Route 1-DS02	6195	50-Year	822.00	58.20	62.17	62.17	63.37	0.010281	9.93	115.87	52.40	0.93
US Route 1-DS02	6195	100-Year	997.68	58.20	62.57	62.57	63.85	0.009699	10.36	137.99	57.29	0.92
US Route 1-DS02	6195	500-Year	1454.01	58.20	63.41	63.41	64.87	0.008958	11.34	190.60	66.58	0.91
US Route 1-DS02	6090	2-Year	237.68	53.20	55.80	55.80	56.57	0.010988	7.51	39.12	28.00	0.89
US Route 1-DS02	6090	10-Year	487.24	53.20	56.99	56.77	57.87	0.007626	8.33	77.32	34.97	0.79
US Route 1-DS02	6090	25-Year	653.84	53.20	57.37	57.24	58.54	0.009052	9.74	91.30	38.46	0.88
US Route 1-DS02	6090	50-Year	822.00	53.20	57.75	57.75	59.14	0.009721	10.75	106.56	41.96	0.92
US Route 1-DS02	6090	100-Year	997.68	53.20	58.20	58.20	59.70	0.009333	11.27	126.40	46.26	0.92

Deadman Brook Natural Conditions

HEC-RAS Plan: Natural (Continued)

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
US Route 1-DS02	6090	500-Year	1454.01	53.20	59.71	59.71	60.64	0.004650	9.59	234.38	100.61	0.68
US Route 1-DS02	6040	2-Year	237.68	48.67	54.37		55.32	0.015318	7.82	30.39	5.33	0.58
US Route 1-DS02	6040	10-Year	487.24	48.67	56.96		57.41	0.005685	5.83	98.13	40.53	0.36
US Route 1-DS02	6040	25-Year	653.84	48.67	57.40		57.99	0.006437	6.42	116.92	44.05	0.38
US Route 1-DS02	6040	50-Year	822.00	48.67	57.73		58.47	0.007357	7.04	131.98	46.68	0.41
US Route 1-DS02	6040	100-Year	997.68	48.67	58.07		58.94	0.007893	7.47	148.50	54.17	0.43
US Route 1-DS02	6040	500-Year	1454.01	48.67	58.90	58.90	59.79	0.006844	7.36	218.54	116.67	0.41
US Route 1-DS02	6015	2-Year	237.68	48.67	52.61	52.61	54.60	0.038335	11.32	20.99	5.33	1.01
US Route 1-DS02	6015	10-Year	487.24	48.67	56.21	56.21	57.14	0.013906	8.56	72.41	38.52	0.55
US Route 1-DS02	6015	25-Year	653.84	48.67	56.67	56.67	57.69	0.014614	9.12	91.35	43.90	0.57
US Route 1-DS02	6015	50-Year	822.00	48.67	57.08	57.08	58.16	0.014429	9.37	110.33	48.52	0.57
US Route 1-DS02	6015	100-Year	997.68	48.67	57.34	57.34	58.61	0.015804	10.01	123.27	50.96	0.60
US Route 1-DS02	6015	500-Year	1454.01	48.67	58.66	58.66	59.57	0.007951	7.80	216.46	117.61	0.44
US Route 1-DS02	5965	2-Year	237.68	48.00	50.54	50.54	51.50	0.012747	8.07	36.01	23.27	0.95
US Route 1-DS02	5965	10-Year	487.24	48.00	51.77	51.77	53.13	0.010772	9.94	69.28	30.33	0.94
US Route 1-DS02	5965	25-Year	653.84	48.00	52.39	52.39	54.00	0.010523	10.96	89.14	34.12	0.96
US Route 1-DS02	5965	50-Year	822.00	48.00	52.99	52.99	54.76	0.009931	11.67	110.84	38.24	0.95
US Route 1-DS02	5965	100-Year	997.68	48.00	53.54	53.54	55.48	0.009609	12.36	132.96	42.54	0.95
US Route 1-DS02	5965	500-Year	1454.01	48.00	54.79	54.79	57.03	0.008795	13.65	192.30	52.07	0.95
US Route 1-DS02	5805	2-Year	237.68	44.20	46.34	46.34	46.83	0.010335	6.14	50.10	55.17	0.83
US Route 1-DS02	5805	10-Year	487.24	44.20	47.03	47.03	47.58	0.008304	6.90	96.04	78.30	0.78
US Route 1-DS02	5805	25-Year	653.84	44.20	47.29	47.29	47.92	0.008421	7.45	117.30	82.23	0.80
US Route 1-DS02	5805	50-Year	822.00	44.20	47.52	47.52	48.21	0.008442	7.88	136.75	85.66	0.82
US Route 1-DS02	5805	100-Year	997.68	44.20	47.73	47.73	48.49	0.008500	8.29	155.13	88.79	0.83
US Route 1-DS02	5805	500-Year	1454.01	44.20	48.19	48.19	49.13	0.008734	9.21	197.62	97.06	0.86
US Route 1-DS02	5720	2-Year	237.68	42.60	44.73	44.73	44.94	0.006415	4.42	111.73	249.44	0.64
US Route 1-DS02	5720	10-Year	487.24	42.60	45.00	45.00	45.30	0.008714	5.77	181.20	253.08	0.77
US Route 1-DS02	5720	25-Year	653.84	42.60	45.13	45.13	45.48	0.010258	6.55	212.80	254.50	0.84
US Route 1-DS02	5720	50-Year	822.00	42.60	45.26	45.26	45.64	0.010864	7.05	246.06	255.99	0.87
US Route 1-DS02	5720	100-Year	997.68	42.60	45.37	45.37	45.80	0.011705	7.58	274.77	257.26	0.91
US Route 1-DS02	5720	500-Year	1454.01	42.60	45.63	45.63	46.16	0.013257	8.70	340.92	260.18	0.99
US Route 1-DS02	5635 FEMA "C"	2-Year	237.68	38.69	41.85	41.85	42.45	0.009517	6.88	42.08	79.35	0.74
US Route 1-DS02	5635 FEMA "C"	10-Year	487.24	38.69	42.63	42.63	43.41	0.010296	8.24	75.39	181.68	0.80
US Route 1-DS02	5635 FEMA "C"	25-Year	653.84	38.69	43.31	43.31	43.77	0.005334	6.71	166.02	222.71	0.59
US Route 1-DS02	5635 FEMA "C"	50-Year	822.00	38.69	43.48	43.48	43.97	0.005742	7.16	203.99	225.66	0.62
US Route 1-DS02	5635 FEMA "C"	100-Year	997.68	38.69	43.63	43.63	44.15	0.006137	7.57	237.58	228.24	0.64
US Route 1-DS02	5635 FEMA "C"	500-Year	1454.01	38.69	43.94	43.94	44.56	0.007091	8.52	308.26	233.57	0.70
US Route 1-DS02	5610	2-Year	237.68	37.20	39.36	39.36	40.13	0.012502	7.33	36.95	26.22	0.93
US Route 1-DS02	5610	10-Year	487.24	37.20	40.39	40.39	41.42	0.010116	8.76	67.99	33.94	0.90
US Route 1-DS02	5610	25-Year	653.84	37.20	40.91	40.91	42.06	0.009375	9.40	86.69	37.75	0.89
US Route 1-DS02	5610	50-Year	822.00	37.20	41.37	41.37	42.61	0.008917	9.95	104.86	42.21	0.88
US Route 1-DS02	5610	100-Year	997.68	37.20	41.81	41.81	43.09	0.008255	10.28	124.72	46.85	0.86
US Route 1-DS02	5610	500-Year	1454.01	37.20	43.15	43.15	43.79	0.003862	8.39	315.66	217.25	0.62
US Route 1-DS02	5530	2-Year	237.68	34.64	38.43		38.62	0.001957	3.53	78.77	58.22	0.36
US Route 1-DS02	5530	10-Year	487.24	34.64	38.83	37.96	39.38	0.005095	6.14	103.45	68.75	0.59
US Route 1-DS02	5530	25-Year	653.84	34.64	39.00	38.70	39.85	0.007463	7.69	116.06	76.24	0.72
US Route 1-DS02	5530	50-Year	822.00	34.64	39.19	39.19	40.32	0.009416	8.96	131.47	81.45	0.82
US Route 1-DS02	5530	100-Year	997.68	34.64	39.60	39.60	40.77	0.008913	9.34	166.55	92.19	0.81
US Route 1-DS02	5530	500-Year	1454.01	34.64	40.47	40.47	41.71	0.008082	10.10	265.52	136.11	0.80
US Route 1-DS02	5480	2-Year	282.55	35.00	37.87	37.87	38.40	0.007918	6.76	63.48	127.15	0.76
US Route 1-DS02	5480	10-Year	602.14	35.00	38.56	38.56	39.07	0.006594	7.28	152.29	146.65	0.73
US Route 1-DS02	5480	25-Year	816.19	35.00	38.78	38.78	39.40	0.007538	8.15	185.40	149.92	0.79
US Route 1-DS02	5480	50-Year	1018.97	35.00	39.01	39.01	39.67	0.007634	8.57	219.56	153.20	0.80
US Route 1-DS02	5480	100-Year	1227.27	35.00	39.18	39.17	39.93	0.008120	9.13	246.95	155.25	0.83
US Route 1-DS02	5480	500-Year	1774.64	35.00	39.71	39.63	40.52	0.007663	9.68	329.83	161.30	0.83
US Route 1-DS02	5325	2-Year	282.55	34.20	36.97		37.20	0.003529	4.44	151.22	175.00	0.51
US Route 1-DS02	5325	10-Year	602.14	34.20	37.64		37.96	0.004293	5.79	276.77	200.60	0.59
US Route 1-DS02	5325	25-Year	816.19	34.20	37.98		38.32	0.004501	6.36	346.57	214.62	0.61
US Route 1-DS02	5325	50-Year	1018.97	34.20	38.26		38.63	0.004522	6.73	408.79	220.93	0.62
US Route 1-DS02	5325	100-Year	1227.27	34.20	38.52		38.90	0.004549	7.06	466.50	226.13	0.63
US Route 1-DS02	5325	500-Year	1774.64	34.20	39.02		39.48	0.005017	8.04	583.08	236.25	0.68
US Route 1-DS02	5170	2-Year	282.55	32.40	35.78	35.78	36.37	0.007881	7.52	82.07	102.89	0.77
US Route 1-DS02	5170	10-Year	602.14	32.40	36.64	36.64	37.12	0.006516	8.12	175.79	126.31	0.73
US Route 1-DS02	5170	25-Year	816.19	32.40	36.87	36.87	37.42	0.007343	8.97	205.50	130.73	0.79
US Route 1-DS02	5170	50-Year	1018.97	32.40	37.04	37.04	37.67	0.008224	9.75	227.61	134.54	0.84
US Route 1-DS02	5170	100-Year	1227.27	32.40	37.20		37.90	0.008949	10.42	249.01	139.82	0.88
US Route 1-DS02	5170	500-Year	1774.64	32.40	37.63	37.63	38.42	0.009020	11.14	312.68	154.48	0.90
US Route 1-DS02	5120	2-Year	282.55	30.50	35.47	33.51	35.91	0.004877	5.53	77.63	93.57	0.44
US Route 1-DS02	5120	10-Year	602.14	30.50	36.28	36.28	36.72	0.005637	6.59	172.78	135.41	0.48
US Route 1-DS02	5120	25-Year	816.19	30.50	36.47	36.47	37.00	0.007171	7.58	198.17	139.99	0.55
US Route 1-DS02	5120	50-Year	1018.97	30.50	36.68	36.68	37.22	0.007487	7.93	228.05	145.20	0.56

Deadman Brook Natural Conditions

HEC-RAS Plan: Natural (Continued)

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
US Route 1-DS02	5120	100-Year	1227.27	30.50	36.81	36.81	37.43	0.008572	8.60	247.03	148.41	0.60
US Route 1-DS02	5120	500-Year	1774.64	30.50	37.18	37.18	37.91	0.009416	9.37	304.84	158.18	0.64
US Route 1-DS02	5085	2-Year	282.55	30.50	35.51	33.51	35.71	0.002640	4.10	97.66	118.52	0.32
US Route 1-DS02	5085	10-Year	602.14	30.50	36.19		36.36	0.002140	4.01	190.45	154.69	0.30
US Route 1-DS02	5085	25-Year	816.19	30.50	36.39		36.61	0.002529	4.46	221.52	160.57	0.32
US Route 1-DS02	5085	50-Year	1018.97	30.50	36.74		36.95	0.001937	4.06	280.33	172.94	0.29
US Route 1-DS02	5085	100-Year	1227.27	30.50	36.67		37.00	0.003192	5.18	268.78	170.41	0.37
US Route 1-DS02	5085	500-Year	1774.64	30.50	37.02		37.47	0.003585	5.69	330.08	183.31	0.39
US Route 1-DS02	5055	2-Year	282.55	30.50	34.78	33.51	35.53	0.009101	6.96	40.63	9.50	0.59
US Route 1-DS02	5055	10-Year	602.14	30.50	36.10		36.29	0.002685	4.45	190.03	168.57	0.33
US Route 1-DS02	5055	25-Year	816.19	30.50	36.30		36.53	0.003031	4.84	224.22	172.20	0.35
US Route 1-DS02	5055	50-Year	1018.97	30.50	36.69		36.88	0.002064	4.17	293.10	179.30	0.30
US Route 1-DS02	5055	100-Year	1227.27	30.50	36.56		36.90	0.003849	5.62	270.53	177.01	0.40
US Route 1-DS02	5055	500-Year	1774.64	30.50	36.91		37.36	0.004202	6.09	332.54	183.25	0.42
US Route 1-DS02	5025	2-Year	282.55	30.50	33.51	33.51	35.03	0.024064	9.89	28.56	9.50	1.01
US Route 1-DS02	5025	10-Year	602.14	30.50	35.74	35.74	36.15	0.006035	6.38	141.12	159.73	0.49
US Route 1-DS02	5025	25-Year	816.19	30.50	35.94	35.94	36.38	0.006547	6.81	174.11	178.18	0.51
US Route 1-DS02	5025	50-Year	1018.97	30.50	36.64		36.82	0.001868	3.95	307.31	195.05	0.28
US Route 1-DS02	5025	100-Year	1227.27	30.50	36.38		36.76	0.004781	6.13	256.69	190.59	0.45
US Route 1-DS02	5025	500-Year	1774.64	30.50	36.77		37.23	0.004397	6.14	332.65	197.24	0.43
US Route 1-DS02	4990	2-Year	282.55	30.00	34.08		34.27	0.001570	4.02	167.48	119.75	0.37
US Route 1-DS02	4990	10-Year	602.14	30.00	35.71		35.86	0.001044	4.17	413.37	196.39	0.32
US Route 1-DS02	4990	25-Year	816.19	30.00	35.98		36.17	0.001371	4.94	467.80	212.25	0.37
US Route 1-DS02	4990	50-Year	1018.97	30.00	36.63		36.76	0.000913	4.34	613.45	227.61	0.30
US Route 1-DS02	4990	100-Year	1227.27	30.00	36.36		36.62	0.001891	6.06	551.17	224.69	0.43
US Route 1-DS02	4990	500-Year	1774.64	30.00	36.74		37.07	0.002429	7.15	637.36	228.42	0.50
US Route 1-DS02	4950	2-Year	282.55	30.00	33.53		34.12	0.006991	6.16	45.86	13.00	0.58
US Route 1-DS02	4950	10-Year	602.14	30.00	35.70		35.80	0.001189	3.39	351.82	231.56	0.25
US Route 1-DS02	4950	25-Year	816.19	30.00	35.99		36.09	0.001288	3.65	418.90	266.49	0.26
US Route 1-DS02	4950	50-Year	1018.97	30.00	36.64		36.71	0.000639	2.75	581.16	324.86	0.19
US Route 1-DS02	4950	100-Year	1227.27	30.00	36.38		36.51	0.001403	3.97	516.90	309.50	0.28
US Route 1-DS02	4950	500-Year	1774.64	30.00	36.76		36.95	0.001621	4.44	611.32	332.03	0.30
US Route 1-DS02	4915	2-Year	282.55	30.00	32.44	32.44	33.67	0.020505	8.91	31.72	13.00	1.01
US Route 1-DS02	4915	10-Year	602.14	30.00	35.20	35.20	35.68	0.004911	6.49	234.23	245.96	0.50
US Route 1-DS02	4915	25-Year	816.19	30.00	35.46	35.46	35.97	0.005579	7.15	299.44	256.45	0.54
US Route 1-DS02	4915	50-Year	1018.97	30.00	36.56	35.65	36.67	0.001518	4.21	600.17	360.07	0.29
US Route 1-DS02	4915	100-Year	1227.27	30.00	35.81	35.81	36.38	0.006823	8.24	391.70	291.31	0.60
US Route 1-DS02	4915	500-Year	1774.64	30.00	36.22		36.80	0.007435	8.99	504.97	337.99	0.64
US Route 1-DS02	4910	2-Year	282.55	30.00	32.64	31.92	33.15	0.006952	5.73	49.34	18.70	0.62
US Route 1-DS02	4910	10-Year	602.14	30.00	33.46	33.46	34.73	0.012567	9.14	77.95	61.85	0.87
US Route 1-DS02	4910	25-Year	816.19	30.00	33.99	33.99	35.55	0.013209	10.31	121.05	120.25	0.91
US Route 1-DS02	4910	50-Year	1018.97	30.00	33.99	33.99	36.41	0.020588	12.87	121.05	120.25	1.14
US Route 1-DS02	4910	100-Year	1227.27	30.00	35.14	35.13	35.73	0.005400	7.80	382.38	250.62	0.61
US Route 1-DS02	4910	500-Year	1774.64	30.00	36.44	35.51	36.67	0.002118	5.68	729.16	351.80	0.39
US Route 1-DS02	4880	2-Year	282.55	30.00	32.71		32.93	0.003407	4.28	123.05	99.37	0.46
US Route 1-DS02	4880	10-Year	602.14	30.00	33.75		33.99	0.002981	4.97	244.51	133.78	0.45
US Route 1-DS02	4880	25-Year	816.19	30.00	34.35		34.57	0.002389	4.92	326.12	204.23	0.42
US Route 1-DS02	4880	50-Year	1018.97	30.00	34.86		35.07	0.002060	4.91	402.51	229.20	0.39
US Route 1-DS02	4880	100-Year	1227.27	30.00	35.35		35.52	0.001572	4.58	518.82	240.43	0.35
US Route 1-DS02	4880	500-Year	1774.64	30.00	36.48		36.60	0.000871	3.87	804.21	354.68	0.27
US Route 1-DS02	4830	2-Year	282.55	29.00	32.74		32.81	0.000755	2.62	277.82	171.95	0.25
US Route 1-DS02	4830	10-Year	602.14	29.00	33.76		33.87	0.000965	3.53	461.63	186.64	0.30
US Route 1-DS02	4830	25-Year	816.19	29.00	34.34		34.46	0.001032	3.96	573.03	202.67	0.31
US Route 1-DS02	4830	50-Year	1018.97	29.00	34.84		34.97	0.001075	4.31	677.89	221.85	0.32
US Route 1-DS02	4830	100-Year	1227.27	29.00	35.31		35.45	0.001059	4.51	786.45	239.38	0.33
US Route 1-DS02	4830	500-Year	1774.64	29.00	36.42		36.56	0.000892	4.65	1074.06	271.55	0.31
US Route 1-DS02	4760	2-Year	282.55	30.40	32.33	32.06	32.67	0.007717	4.81	63.17	51.40	0.70
US Route 1-DS02	4760	10-Year	602.14	30.40	32.76	32.76	33.63	0.013857	7.67	86.48	54.91	0.98
US Route 1-DS02	4760	25-Year	816.19	30.40	33.16	33.16	34.21	0.013102	8.45	108.79	58.07	0.98
US Route 1-DS02	4760	50-Year	1018.97	30.40	33.50	33.50	34.70	0.012568	9.08	129.04	60.79	0.98
US Route 1-DS02	4760	100-Year	1227.27	30.40	33.84	33.84	35.17	0.011986	9.60	149.89	63.48	0.98
US Route 1-DS02	4760	500-Year	1774.64	30.40	34.59	34.59	36.26	0.011310	10.84	199.46	67.24	0.99
US Route 1-DS02	4555	2-Year	282.55	29.00	29.89	29.89	30.21	0.021166	4.55	62.03	97.78	1.01
US Route 1-DS02	4555	10-Year	602.14	29.00	31.37		31.49	0.001614	2.80	235.22	152.39	0.34
US Route 1-DS02	4555	25-Year	816.19	29.00	32.02		32.14	0.001135	2.81	339.35	169.21	0.30
US Route 1-DS02	4555	50-Year	1018.97	29.00	32.49		32.62	0.001007	2.94	422.25	184.27	0.29
US Route 1-DS02	4555	100-Year	1227.27	29.00	32.85		32.99	0.001000	3.14	489.75	195.68	0.29
US Route 1-DS02	4555	500-Year	1774.64	29.00	33.49		33.69	0.001142	3.74	621.31	224.30	0.32
US Route 1-DS02	4355	2-Year	282.55	25.80	29.20		29.28	0.000833	2.60	212.99	106.35	0.26
US Route 1-DS02	4355	10-Year	602.14	25.80	31.24		31.31	0.000482	2.77	479.89	169.03	0.21
US Route 1-DS02	4355	25-Year	816.19	25.80	31.91		31.99	0.000460	2.93	606.15	205.62	0.21

Deadman Brook Natural Conditions

HEC-RAS Plan: Natural (Continued)

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
US Route 1-DS02	4355	50-Year	1018.97	25.80	32.39		32.47	0.000453	3.07	711.39	225.56	0.22
US Route 1-DS02	4355	100-Year	1227.27	25.80	32.75		32.84	0.000475	3.26	793.59	233.50	0.22
US Route 1-DS02	4355	500-Year	1774.64	25.80	33.38		33.50	0.000585	3.84	945.28	245.76	0.25
US Route 1-DS02	4305	2-Year	282.55	24.90	27.61	27.39	28.65	0.015910	8.16	34.61	13.00	0.88
US Route 1-DS02	4305	10-Year	602.14	24.90	29.24	29.24	30.83	0.014793	10.34	71.61	40.20	0.88
US Route 1-DS02	4305	25-Year	816.19	24.90	30.45	30.45	31.59	0.008810	9.41	150.41	87.39	0.71
US Route 1-DS02	4305	50-Year	1018.97	24.90	31.04	31.04	32.09	0.007841	9.51	207.91	111.16	0.68
US Route 1-DS02	4305	100-Year	1227.27	24.90	31.50	31.50	32.46	0.007117	9.51	263.69	128.11	0.65
US Route 1-DS02	4305	500-Year	1774.64	24.90	32.43	32.43	33.12	0.005363	9.02	453.51	415.77	0.58
US Route 1-DS02	4255	2-Year	282.55	22.67	27.90		28.16	0.002484	4.16	71.62	20.76	0.32
US Route 1-DS02	4255	10-Year	602.14	22.67	29.07		29.66	0.004638	6.53	104.40	36.42	0.46
US Route 1-DS02	4255	25-Year	816.19	22.67	29.67	28.11	30.40	0.005360	7.45	129.92	49.00	0.50
US Route 1-DS02	4255	50-Year	1018.97	22.67	30.19	29.14	30.97	0.005498	7.93	162.87	138.88	0.51
US Route 1-DS02	4255	100-Year	1227.27	22.67	30.39	30.39	31.30	0.006378	8.69	180.61	150.89	0.56
US Route 1-DS02	4255	500-Year	1774.64	22.67	31.03	31.03	31.96	0.006329	9.13	247.95	189.40	0.56
US Route 1-DS02	4200	2-Year	282.55	25.00	27.09	27.09	27.85	0.013621	7.15	41.28	27.90	0.95
US Route 1-DS02	4200	10-Year	602.14	25.00	28.13	28.13	29.25	0.011263	8.86	73.47	34.17	0.93
US Route 1-DS02	4200	25-Year	816.19	25.00	28.71	28.71	29.98	0.010126	9.53	94.60	38.58	0.91
US Route 1-DS02	4200	50-Year	1018.97	25.00	29.20	29.20	30.56	0.009238	9.96	114.31	41.51	0.89
US Route 1-DS02	4200	100-Year	1227.27	25.00	30.14	30.14	30.93	0.004658	8.18	206.26	182.34	0.66
US Route 1-DS02	4200	500-Year	1774.64	25.00	30.83	30.83	31.50	0.003906	8.20	334.93	235.32	0.62
US Route 1-DS02	4030	2-Year	282.55	24.00	26.40		26.49	0.001609	2.73	129.29	108.92	0.34
US Route 1-DS02	4030	10-Year	602.14	24.00	27.91		27.98	0.000527	2.26	316.62	143.58	0.21
US Route 1-DS02	4030	25-Year	816.19	24.00	28.49		28.56	0.000487	2.40	400.20	148.04	0.21
US Route 1-DS02	4030	50-Year	1018.97	24.00	28.92		29.01	0.000486	2.56	464.77	150.93	0.21
US Route 1-DS02	4030	100-Year	1227.27	24.00	29.29		29.39	0.000505	2.75	520.88	154.45	0.22
US Route 1-DS02	4030	500-Year	1774.64	24.00	30.11		30.25	0.000551	3.18	651.65	163.33	0.23
US Route 1-DS01	3870	2-Year	275.89	22.80	26.27		26.33	0.000591	2.16	152.88	84.86	0.22
US Route 1-DS01	3870	10-Year	595.97	22.80	27.86		27.91	0.000311	2.07	320.43	122.24	0.17
US Route 1-DS01	3870	25-Year	811.58	22.80	28.43		28.50	0.000314	2.25	391.53	125.43	0.17
US Route 1-DS01	3870	50-Year	1009.94	22.80	28.86		28.94	0.000327	2.42	445.90	127.51	0.18
US Route 1-DS01	3870	100-Year	1214.04	22.80	29.22		29.32	0.000348	2.60	492.76	130.46	0.19
US Route 1-DS01	3870	500-Year	1767.02	22.80	30.03		30.17	0.000403	3.05	601.89	139.48	0.21
US Route 1-DS01	3815	2-Year	275.89	21.00	26.14	24.32	26.28	0.002045	3.60	103.28	72.99	0.28
US Route 1-DS01	3815	10-Year	595.97	21.00	27.78		27.89	0.001014	3.05	241.50	106.57	0.21
US Route 1-DS01	3815	25-Year	811.58	21.00	28.34		28.47	0.001056	3.28	306.02	118.76	0.21
US Route 1-DS01	3815	50-Year	1009.94	21.00	28.77		28.91	0.001109	3.49	357.18	123.84	0.22
US Route 1-DS01	3815	100-Year	1214.04	21.00	29.12		29.29	0.001192	3.73	401.71	128.13	0.23
US Route 1-DS01	3815	500-Year	1767.02	21.00	29.90		30.13	0.001412	4.32	506.09	137.77	0.25
US Route 1-DS01	3790	2-Year	275.89	21.00	24.59	24.32	26.02	0.021869	9.60	28.72	8.00	0.89
US Route 1-DS01	3790	10-Year	595.97	21.00	26.80	26.80	27.74	0.011185	9.13	139.37	86.76	0.67
US Route 1-DS01	3790	25-Year	811.58	21.00	27.34	27.34	28.32	0.011661	9.90	190.95	101.77	0.69
US Route 1-DS01	3790	50-Year	1009.94	21.00	27.70	27.70	28.75	0.012655	10.69	228.42	110.48	0.73
US Route 1-DS01	3790	100-Year	1214.04	21.00	28.10	28.10	29.13	0.012422	11.01	274.65	118.88	0.73
US Route 1-DS01	3790	500-Year	1767.02	21.00	28.73	28.73	29.95	0.014744	12.70	351.30	123.55	0.80
US Route 1-DS01	3765	2-Year	275.89	20.44	25.07	23.63	25.52	0.005151	5.70	85.81	88.32	0.49
US Route 1-DS01	3765	10-Year	595.97	20.44	25.94	25.79	26.63	0.007848	7.96	168.94	101.54	0.62
US Route 1-DS01	3765	25-Year	811.58	20.44	26.39	26.22	27.16	0.008689	8.86	216.04	106.80	0.66
US Route 1-DS01	3765	50-Year	1009.94	20.44	26.94		27.63	0.007640	8.85	277.04	113.14	0.63
US Route 1-DS01	3765	100-Year	1214.04	20.44	27.69		28.22	0.005693	8.24	364.69	121.95	0.55
US Route 1-DS01	3765	500-Year	1767.02	20.44	28.17		28.98	0.008285	10.40	424.94	129.21	0.67
US Route 1-DS01	3740	2-Year	275.89	20.44	24.28	23.63	25.24	0.012470	7.86	35.11	90.07	0.74
US Route 1-DS01	3740	10-Year	595.97	20.44	25.69	25.69	26.38	0.008711	8.12	179.23	129.50	0.65
US Route 1-DS01	3740	25-Year	811.58	20.44	26.28		26.86	0.007445	8.10	258.05	135.86	0.61
US Route 1-DS01	3740	50-Year	1009.94	20.44	26.92		27.37	0.005639	7.58	347.62	142.52	0.54
US Route 1-DS01	3740	100-Year	1214.04	20.44	27.70		28.02	0.003955	6.87	461.45	151.03	0.46
US Route 1-DS01	3740	500-Year	1767.02	20.44	28.21		28.68	0.005516	8.51	540.09	155.76	0.55
US Route 1-DS01	3685 FEMA "B"	2-Year	275.89	21.60	24.49		24.74	0.002685	4.12	101.53	96.68	0.45
US Route 1-DS01	3685 FEMA "B"	10-Year	595.97	21.60	25.65		25.98	0.002586	5.17	219.60	106.35	0.47
US Route 1-DS01	3685 FEMA "B"	25-Year	811.58	21.60	26.16		26.56	0.002806	5.87	274.38	110.15	0.50
US Route 1-DS01	3685 FEMA "B"	50-Year	1009.94	21.60	26.73		27.14	0.002565	6.11	339.19	115.50	0.49
US Route 1-DS01	3685 FEMA "B"	100-Year	1214.04	21.60	27.46		27.85	0.002114	6.09	427.18	130.37	0.46
US Route 1-DS01	3685 FEMA "B"	500-Year	1767.02	21.60	27.60		28.37	0.004035	8.56	446.35	134.31	0.63
US Route 1-DS01	3465	2-Year	275.89	21.00	24.34		24.41	0.000729	2.40	167.48	101.88	0.24
US Route 1-DS01	3465	10-Year	595.97	21.00	25.56		25.65	0.000646	2.83	306.76	121.36	0.24
US Route 1-DS01	3465	25-Year	811.58	21.00	26.09		26.20	0.000691	3.16	371.32	125.84	0.25
US Route 1-DS01	3465	50-Year	1009.94	21.00	26.69		26.81	0.000624	3.25	449.65	133.08	0.25
US Route 1-DS01	3465	100-Year	1214.04	21.00	27.46		27.57	0.000496	3.16	554.59	141.53	0.22
US Route 1-DS01	3465	500-Year	1767.02	21.00	27.61		27.83	0.000939	4.42	576.94	143.18	0.31
US Route 1-DS01	3305	2-Year	275.89	21.00	24.35		24.36	0.000084	0.79	369.80	145.38	0.08
US Route 1-DS01	3305	10-Year	595.97	21.00	25.57		25.59	0.000118	1.16	559.12	159.92	0.10

Deadman Brook Natural Conditions

HEC-RAS Plan: Natural (Continued)

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
US Route 1-DS01	3305	25-Year	811.58	21.00	26.10		26.13	0.000144	1.37	644.10	163.15	0.11
US Route 1-DS01	3305	50-Year	1009.94	21.00	26.71		26.74	0.000145	1.49	744.98	169.16	0.11
US Route 1-DS01	3305	100-Year	1214.04	21.00	27.47		27.51	0.000129	1.53	876.74	175.06	0.11
US Route 1-DS01	3305	500-Year	1767.02	21.00	27.65		27.71	0.000247	2.16	907.35	176.17	0.15
US Route 1-DS01	3255	2-Year	275.89	21.00	23.49	23.49	24.27	0.012531	7.28	51.86	48.55	0.81
US Route 1-DS01	3255	10-Year	595.97	21.00	24.74	24.74	25.50	0.009323	8.09	131.45	85.55	0.74
US Route 1-DS01	3255	25-Year	811.58	21.00	24.99	24.99	26.01	0.012043	9.60	154.07	93.97	0.85
US Route 1-DS01	3255	50-Year	1009.94	21.00	24.99	24.99	26.56	0.018649	11.95	154.07	93.97	1.05
US Route 1-DS01	3255	100-Year	1214.04	21.00	24.99	24.99	27.26	0.026948	14.36	154.07	93.97	1.27
US Route 1-DS01	3255	500-Year	1767.02	21.00	27.18	26.35	27.64	0.003802	7.22	453.21	156.58	0.51
US Route 1-DS01	3245	2-Year	275.89	15.50	20.28		20.53	0.002222	4.04	68.35	14.30	0.33
US Route 1-DS01	3245	10-Year	595.97	15.50	21.10		21.96	0.006679	7.44	80.09	14.30	0.55
US Route 1-DS01	3245	25-Year	811.58	15.50	21.70		23.00	0.009384	9.15	88.66	14.30	0.65
US Route 1-DS01	3245	50-Year	1009.94	15.50	22.34		24.00	0.011137	10.32	97.85	14.30	0.70
US Route 1-DS01	3245	100-Year	1214.04	15.50	22.74		24.87	0.013864	11.73	103.47	14.30	0.77
US Route 1-DS01	3245	500-Year	1767.02	15.50	24.13	23.28	27.30	0.018209	14.30	127.06	44.53	0.86
US Route 1-DS01	3240	2-Year	275.89	15.50	20.28		20.53	0.002225	4.04	68.31	14.30	0.33
US Route 1-DS01	3240	10-Year	595.97	15.50	21.09		21.95	0.006708	7.45	79.97	14.30	0.56
US Route 1-DS01	3240	25-Year	811.58	15.50	21.69		22.99	0.009442	9.17	88.46	14.30	0.65
US Route 1-DS01	3240	50-Year	1009.94	15.50	22.33		23.99	0.011213	10.35	97.60	14.30	0.70
US Route 1-DS01	3240	100-Year	1214.04	15.50	22.71		24.86	0.013980	11.77	103.14	14.30	0.77
US Route 1-DS01	3240	500-Year	1767.02	15.50	23.28	23.28	27.20	0.024218	15.88	111.28	14.30	1.00
US Route 1-DS01	3215	2-Year	284.35	15.50	20.19		20.47	0.002436	4.24	67.96	20.06	0.35
US Route 1-DS01	3215	10-Year	614.85	15.50	20.72		21.74	0.007847	8.17	79.76	24.46	0.63
US Route 1-DS01	3215	25-Year	837.74	15.50	20.76	20.36	22.63	0.014143	11.03	80.83	24.82	0.85
US Route 1-DS01	3215	50-Year	1042.29	15.50	21.30	21.30	23.58	0.015394	12.27	95.20	28.56	0.90
US Route 1-DS01	3215	100-Year	1254.31	15.50	21.94	21.94	24.44	0.015023	13.00	114.68	32.35	0.90
US Route 1-DS01	3215	500-Year	1834.79	15.50	23.74	23.74	26.34	0.012070	13.74	200.10	94.41	0.84
US Route 1-DS01	3160	2-Year	284.35	17.00	19.62	19.62	20.18	0.011131	7.50	96.07	93.39	0.85
US Route 1-DS01	3160	10-Year	614.85	17.00	20.42	20.42	21.09	0.011632	9.28	184.32	121.39	0.91
US Route 1-DS01	3160	25-Year	837.74	17.00	20.80	20.75	21.54	0.012115	10.20	231.47	129.33	0.95
US Route 1-DS01	3160	50-Year	1042.29	17.00	21.18		21.91	0.011165	10.47	282.13	135.78	0.93
US Route 1-DS01	3160	100-Year	1254.31	17.00	21.55		22.26	0.010314	10.68	333.04	140.26	0.90
US Route 1-DS01	3160	500-Year	1834.79	17.00	22.35		23.11	0.009718	11.60	448.97	150.73	0.90
US Route 1-DS01	3125	2-Year	284.35	16.60	19.29	19.29	19.82	0.007749	6.46	86.65	114.55	0.75
US Route 1-DS01	3125	10-Year	614.85	16.60	20.17	20.06	20.74	0.007083	7.66	195.06	132.88	0.76
US Route 1-DS01	3125	25-Year	837.74	16.60	20.39	20.39	21.18	0.009391	9.22	224.55	135.43	0.88
US Route 1-DS01	3125	50-Year	1042.29	16.60	20.67	20.67	21.54	0.009887	9.97	262.38	138.63	0.92
US Route 1-DS01	3125	100-Year	1254.31	16.60	20.90	20.90	21.88	0.010654	10.78	294.75	141.31	0.96
US Route 1-DS01	3125	500-Year	1834.79	16.60	21.51	21.51	22.71	0.011646	12.41	383.28	150.65	1.03
US Route 1-DS01	3065	2-Year	284.35	13.83	18.40		18.82	0.007427	5.84	63.51	69.50	0.48
US Route 1-DS01	3065	10-Year	614.85	13.83	18.67	18.67	20.02	0.022175	10.48	77.97	101.61	0.84
US Route 1-DS01	3065	25-Year	837.74	13.83	19.51		20.01	0.009453	7.62	172.47	128.85	0.56
US Route 1-DS01	3065	50-Year	1042.29	13.83	19.74	19.60	20.27	0.009125	7.68	202.38	133.19	0.56
US Route 1-DS01	3065	100-Year	1254.31	13.83	21.19		21.37	0.001522	3.63	412.76	155.95	0.24
US Route 1-DS01	3065	500-Year	1834.79	13.83	20.88		21.36	0.004724	6.22	365.22	151.44	0.41
US Route 1-DS01	3040	2-Year	284.35	13.83	18.27	18.27	18.61	0.008053	5.96	69.40	81.35	0.50
US Route 1-DS01	3040	10-Year	614.85	13.83	18.73	18.69	19.27	0.010511	7.28	108.39	85.92	0.58
US Route 1-DS01	3040	25-Year	837.74	13.83	19.43		19.81	0.004880	5.42	170.92	93.23	0.40
US Route 1-DS01	3040	50-Year	1042.29	13.83	19.57		20.08	0.006026	6.12	184.01	94.75	0.45
US Route 1-DS01	3040	100-Year	1254.31	13.83	21.11		21.33	0.001304	3.34	341.31	111.41	0.22
US Route 1-DS01	3040	500-Year	1834.79	13.83	20.51		21.21	0.005273	6.33	276.95	102.15	0.43
US Route 1-DS01	2990	2-Year	284.35	14.00	17.87	17.66	18.18	0.003771	5.84	86.18	106.05	0.54
US Route 1-DS01	2990	10-Year	614.85	14.00	18.75		18.96	0.002328	5.32	192.31	134.93	0.44
US Route 1-DS01	2990	25-Year	837.74	14.00	19.50		19.64	0.001206	4.24	299.16	147.58	0.33
US Route 1-DS01	2990	50-Year	1042.29	14.00	19.68		19.86	0.001436	4.74	326.03	149.10	0.36
US Route 1-DS01	2990	100-Year	1254.31	14.00	21.18		21.25	0.000387	2.89	562.41	168.08	0.19
US Route 1-DS01	2990	500-Year	1834.79	14.00	20.73		20.96	0.001265	5.01	489.08	162.08	0.35
US Route 1-DS01	2840	2-Year	284.35	14.20	16.85	16.85	17.41	0.007390	6.54	61.02	61.48	0.73
US Route 1-DS01	2840	10-Year	614.85	14.20	18.26		18.57	0.002922	5.56	182.09	110.36	0.50
US Route 1-DS01	2840	25-Year	837.74	14.20	19.24		19.44	0.001441	4.54	302.57	132.91	0.36
US Route 1-DS01	2840	50-Year	1042.29	14.20	19.32		19.60	0.002043	5.46	312.07	133.92	0.43
US Route 1-DS01	2840	100-Year	1254.31	14.20	21.07		21.19	0.000534	3.42	564.64	152.08	0.23
US Route 1-DS01	2840	500-Year	1834.79	14.20	20.30		20.70	0.002224	6.43	449.90	145.93	0.47
US Route 1-DS01	2790	2-Year	284.35	11.67	16.58	14.59	17.04	0.004916	5.54	60.78	60.41	0.44
US Route 1-DS01	2790	10-Year	614.85	11.67	18.16	17.36	18.42	0.002656	4.90	197.77	105.79	0.34
US Route 1-DS01	2790	25-Year	837.74	11.67	19.17		19.36	0.001553	4.13	323.28	139.50	0.27
US Route 1-DS01	2790	50-Year	1042.29	11.67	19.20		19.48	0.002341	5.08	326.91	140.34	0.33
US Route 1-DS01	2790	100-Year	1254.31	11.67	21.03		21.15	0.000661	3.12	610.12	163.67	0.18
US Route 1-DS01	2790	500-Year	1834.79	11.67	20.11		20.56	0.002990	6.20	463.36	155.84	0.38
US Route 1-DS01	2765	2-Year	284.35	11.67	16.29	14.59	16.88	0.006518	6.15	46.25	10.00	0.50

Deadman Brook Natural Conditions

HEC-RAS Plan: Natural (Continued)

Reach	River Sta		Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
US Route 1-DS01	2765		10-Year	614.85	11.67	17.36	17.36	18.24	0.009140	8.33	110.97	77.75	0.62
US Route 1-DS01	2765		25-Year	837.74	11.67	19.04		19.30	0.002310	4.98	296.15	136.88	0.32
US Route 1-DS01	2765		50-Year	1042.29	11.67	18.95		19.39	0.003946	6.45	283.29	133.35	0.42
US Route 1-DS01	2765		100-Year	1254.31	11.67	20.99		21.13	0.000904	3.64	581.68	157.05	0.21
US Route 1-DS01	2765		500-Year	1834.79	11.67	19.72		20.43	0.005493	8.14	391.97	143.69	0.51
US Route 1-DS01	2715		2-Year	284.35	13.60	16.41		16.57	0.002248	3.58	112.96	90.57	0.41
US Route 1-DS01	2715		10-Year	614.85	13.60	17.40		17.62	0.002090	4.35	210.80	105.48	0.42
US Route 1-DS01	2715		25-Year	837.74	13.60	19.09		19.20	0.000629	3.13	416.53	137.83	0.24
US Route 1-DS01	2715		50-Year	1042.29	13.60	19.04		19.22	0.001021	3.96	409.27	137.43	0.31
US Route 1-DS01	2715		100-Year	1254.31	13.60	20.99		21.09	0.000349	2.88	693.52	154.07	0.19
US Route 1-DS01	2715		500-Year	1834.79	13.60	19.83		20.19	0.001645	5.54	520.68	143.40	0.40
US Route 1-DS01	2595		2-Year	284.35	12.00	16.34		16.41	0.000646	2.69	170.07	97.31	0.24
US Route 1-DS01	2595		10-Year	614.85	12.00	17.31		17.44	0.000825	3.52	270.60	108.91	0.28
US Route 1-DS01	2595		25-Year	837.74	12.00	19.07		19.14	0.000303	2.61	476.93	124.62	0.18
US Route 1-DS01	2595		50-Year	1042.29	12.00	19.00		19.12	0.000493	3.30	468.55	124.15	0.23
US Route 1-DS01	2595		100-Year	1254.31	12.00	20.98		21.05	0.000201	2.51	727.54	136.88	0.15
US Route 1-DS01	2595		500-Year	1834.79	12.00	19.76		20.01	0.000896	4.79	565.10	129.54	0.31
US Route 1-DS01	2540		2-Year	284.35	10.62	16.02	14.28	16.32	0.003746	4.97	90.16	97.93	0.39
US Route 1-DS01	2540		10-Year	614.85	10.62	17.11		17.35	0.002684	4.80	206.08	113.82	0.34
US Route 1-DS01	2540		25-Year	837.74	10.62	19.02		19.12	0.000598	2.72	442.20	131.83	0.17
US Route 1-DS01	2540		50-Year	1042.29	10.62	18.92		19.08	0.001011	3.51	428.92	131.08	0.22
US Route 1-DS01	2540		100-Year	1254.31	10.62	20.95		21.04	0.000341	2.37	709.97	145.35	0.13
US Route 1-DS01	2540		500-Year	1834.79	10.62	19.60		19.93	0.001792	4.93	520.29	136.10	0.30
US Route 1-DS01	2525	FEMA "A"	2-Year	284.35	10.62	15.53	14.28	16.20	0.008138	6.84	54.06	59.56	0.57
US Route 1-DS01	2525	FEMA "A"	10-Year	614.85	10.62	16.76		17.26	0.005740	6.75	149.95	89.62	0.50
US Route 1-DS01	2525	FEMA "A"	25-Year	837.74	10.62	18.96		19.10	0.000993	3.49	385.20	119.97	0.22
US Route 1-DS01	2525	FEMA "A"	50-Year	1042.29	10.62	18.81		19.05	0.001748	4.57	367.00	118.57	0.29
US Route 1-DS01	2525	FEMA "A"	100-Year	1254.31	10.62	20.91		21.03	0.000570	3.06	632.54	132.78	0.17
US Route 1-DS01	2525	FEMA "A"	500-Year	1834.79	10.62	19.34	18.06	19.87	0.003511	6.76	431.07	122.70	0.41
US Route 1-DS01	2475		2-Year	284.35	13.00	15.54	15.02	15.86	0.002912	3.97	69.37	47.65	0.46
US Route 1-DS01	2475		10-Year	614.85	13.00	16.47	15.97	17.06	0.002806	4.88	136.65	92.20	0.48
US Route 1-DS01	2475		25-Year	837.74	13.00	18.86		19.06	0.000399	2.66	398.74	115.69	0.20
US Route 1-DS01	2475		50-Year	1042.29	13.00	18.62		18.98	0.000748	3.54	371.55	114.92	0.27
US Route 1-DS01	2475		100-Year	1254.31	13.00	20.82		21.00	0.000250	2.57	648.67	134.65	0.16
US Route 1-DS01	2475		500-Year	1834.79	13.00	17.98	17.98	19.58	0.004148	7.66	298.61	112.82	0.62
US Route 1-DS01	2420		2-Year	284.35	13.00	15.03	15.03	15.57	0.011691	6.39	50.15	48.30	0.87
US Route 1-DS01	2420		10-Year	614.85	13.00	16.51		16.84	0.002514	4.52	146.67	89.47	0.45
US Route 1-DS01	2420		25-Year	837.74	13.00	18.95		19.00	0.000204	1.88	550.70	202.86	0.14
US Route 1-DS01	2420		50-Year	1042.29	13.00	18.78		18.87	0.000374	2.50	516.11	199.08	0.19
US Route 1-DS01	2420		100-Year	1254.31	13.00	20.91		20.95	0.000095	1.57	963.27	215.65	0.10
US Route 1-DS01	2420		500-Year	1834.79	13.00	18.09		18.66	0.002449	5.84	385.00	184.05	0.47
US Route 1-DS01	2400		2-Year	284.35	8.45	15.28		15.34	0.000530	2.09	158.92	84.16	0.14
US Route 1-DS01	2400		10-Year	614.85	8.45	16.67		16.75	0.000414	2.09	286.51	104.83	0.13
US Route 1-DS01	2400		25-Year	837.74	8.45	18.97		18.99	0.000073	1.03	669.30	195.26	0.06
US Route 1-DS01	2400		50-Year	1042.29	8.45	18.81		18.85	0.000130	1.36	638.66	194.09	0.07
US Route 1-DS01	2400		100-Year	1254.31	8.45	20.92		20.95	0.000037	0.83	1055.94	198.98	0.04
US Route 1-DS01	2400		500-Year	1834.79	8.45	18.32		18.53	0.000644	2.94	545.46	190.47	0.16
US Route 1-DS01	2375		2-Year	284.35	8.45	15.20		15.31	0.001035	2.90	109.40	59.21	0.20
US Route 1-DS01	2375		10-Year	614.85	8.45	16.55		16.72	0.000845	2.95	198.34	82.53	0.18
US Route 1-DS01	2375		25-Year	837.74	8.45	18.94		18.99	0.000119	1.32	543.57	181.62	0.07
US Route 1-DS01	2375		50-Year	1042.29	8.45	18.76		18.85	0.000219	1.76	511.31	177.60	0.10
US Route 1-DS01	2375		100-Year	1254.31	8.45	20.91		20.94	0.000055	1.00	914.53	192.85	0.05
US Route 1-DS01	2375		500-Year	1834.79	8.45	17.95	16.38	18.47	0.001559	4.46	375.08	158.41	0.26
US Route 1-DS01	2355		2-Year	284.35	12.80	14.87	14.82	15.24	0.007298	5.43	60.70	59.67	0.70
US Route 1-DS01	2355		10-Year	614.85	12.80	16.47		16.70	0.001612	3.86	164.55	71.58	0.37
US Route 1-DS01	2355		25-Year	837.74	12.80	18.94		18.98	0.000144	1.65	523.20	189.95	0.12
US Route 1-DS01	2355		50-Year	1042.29	12.80	18.76		18.84	0.000272	2.22	489.43	187.31	0.16
US Route 1-DS01	2355		100-Year	1254.31	12.80	20.91		20.94	0.000059	1.28	905.61	197.48	0.08
US Route 1-DS01	2355		500-Year	1834.79	12.80	16.96	16.96	18.33	0.007957	9.36	202.37	93.13	0.83
US Route 1-DS01	2330		2-Year	284.35	12.60	14.71	14.71	15.04	0.007074	5.46	68.53	85.70	0.69
US Route 1-DS01	2330		10-Year	614.85	12.60	16.53		16.63	0.000688	2.65	248.07	114.62	0.24
US Route 1-DS01	2330		25-Year	837.74	12.60	18.95		18.98	0.000080	1.26	660.72	201.04	0.09
US Route 1-DS01	2330		50-Year	1042.29	12.60	18.78		18.82	0.000146	1.67	626.25	200.79	0.12
US Route 1-DS01	2330		100-Year	1254.31	12.60	20.92		20.94	0.000039	1.05	1059.31	204.81	0.07
US Route 1-DS01	2330		500-Year	1834.79	12.60	16.36	16.36	17.43	0.007764	8.64	229.18	111.72	0.80
US Route 1-DS01	2310		2-Year	284.35	10.58	13.90	13.90	14.43	0.007914	6.87	57.29	68.74	0.66
US Route 1-DS01	2310		10-Year	614.85	10.58	16.54		16.61	0.000398	2.28	296.12	106.03	0.16
US Route 1-DS01	2310		25-Year	837.74	10.58	18.95		18.97	0.000074	1.23	677.44	201.91	0.07
US Route 1-DS01	2310		50-Year	1042.29	10.58	18.78	15.05	18.82	0.000132	1.62	643.17	196.62	0.10
US Route 1-DS01	2310		100-Year	1254.31	10.58	20.92	15.24	20.94	0.000038	1.01	1079.26	204.99	0.06
US Route 1-DS01	2310		500-Year	1834.79	10.58	15.77	15.77	16.90	0.008888	9.80	219.08	95.53	0.76

Deadman Brook Natural Conditions

HEC-RAS Plan: Natural (Continued)

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
US Route 1-DS01	2285	2-Year	284.35	9.58	13.19	13.19	13.94	0.010828	7.59	44.71	68.85	0.70
US Route 1-DS01	2285	10-Year	614.85	9.58	16.55		16.60	0.000271	1.86	364.28	131.94	0.12
US Route 1-DS01	2285	25-Year	837.74	9.58	18.95		18.97	0.000069	1.14	773.32	231.47	0.07
US Route 1-DS01	2285	50-Year	1042.29	9.58	13.80	13.80	18.36	0.058137	19.49	65.59	79.25	1.67
US Route 1-DS01	2285	100-Year	1254.31	9.58	13.81	13.81	20.29	0.082290	23.25	66.20	79.52	1.99
US Route 1-DS01	2285	500-Year	1834.79	9.58	15.57	15.57	16.52	0.008621	9.48	238.72	120.24	0.68
US Route 1-DS01	2225	2-Year	284.35	8.70	12.91		13.21	0.004074	5.15	71.97	53.14	0.45
US Route 1-DS01	2225	10-Year	614.85	8.70	16.56		16.58	0.000107	1.29	501.75	148.77	0.08
US Route 1-DS01	2225	25-Year	837.74	8.70	18.95		18.97	0.000033	0.86	895.36	167.52	0.05
US Route 1-DS01	2225	50-Year	1042.29	8.70	14.85		15.15	0.002310	5.06	258.30	137.20	0.37
US Route 1-DS01	2225	100-Year	1254.31	8.70	15.05		15.39	0.002501	5.38	285.56	138.82	0.38
US Route 1-DS01	2225	500-Year	1834.79	8.70	15.50		15.97	0.002944	6.11	348.51	141.61	0.42
US Route 1-DS01	2130	2-Year	284.35	7.60	12.25		12.72	0.005394	6.09	56.57	33.47	0.52
US Route 1-DS01	2130	10-Year	614.85	7.60	16.55		16.57	0.000069	1.09	588.07	190.23	0.07
US Route 1-DS01	2130	25-Year	837.74	7.60	18.95		18.96	0.000021	0.71	1070.75	211.80	0.04
US Route 1-DS01	2130	50-Year	1042.29	7.60	14.21	14.21	14.78	0.005335	7.79	191.74	148.85	0.55
US Route 1-DS01	2130	100-Year	1254.31	7.60	14.36	14.36	15.00	0.005777	8.24	215.10	151.18	0.57
US Route 1-DS01	2130	500-Year	1834.79	7.60	14.73	14.73	15.52	0.006500	9.07	270.89	156.61	0.62
US Route 1-DS01	2080	2-Year	284.35	6.77	12.48		12.54	0.000465	2.44	185.72	209.80	0.19
US Route 1-DS01	2080	10-Year	614.85	6.77	16.56		16.57	0.000007	0.44	1512.95	378.27	0.03
US Route 1-DS01	2080	25-Year	837.74	6.77	18.96		18.96	0.000003	0.33	2459.62	412.63	0.02
US Route 1-DS01	2080	50-Year	1042.29	6.77	13.87		13.93	0.000383	2.59	558.72	309.11	0.18
US Route 1-DS01	2080	100-Year	1254.31	6.77	14.08		14.15	0.000399	2.70	627.38	331.93	0.18
US Route 1-DS01	2080	500-Year	1834.79	6.77	14.57		14.66	0.000437	2.95	789.96	342.20	0.19
US Route 1-DS01	2025	2-Year	284.35	6.57	12.01	9.71	12.45	0.003569	5.40	58.03	85.91	0.41
US Route 1-DS01	2025	10-Year	614.85	6.57	16.56		16.56	0.000008	0.38	1417.55	484.26	0.02
US Route 1-DS01	2025	25-Year	837.74	6.57	18.96		18.96	0.000002	0.23	2577.77	484.26	0.01
US Route 1-DS01	2025	50-Year	1042.29	6.57	13.66		13.88	0.001347	3.97	291.62	206.93	0.26
US Route 1-DS01	2025	100-Year	1254.31	6.57	13.86		14.10	0.001348	4.04	332.98	213.07	0.27
US Route 1-DS01	2025	500-Year	1834.79	6.57	14.32		14.60	0.001287	4.12	473.46	351.28	0.26
US Route 1-DS01	1975	2-Year	284.35	6.30	11.60	11.60	12.19	0.006832	4.24	48.53	44.65	0.34
US Route 1-DS01	1975	10-Year	614.85	6.30	16.56		16.56	0.000006	0.20	1334.30	445.59	0.01
US Route 1-DS01	1975	25-Year	837.74	6.30	18.96		18.96	0.000002	0.13	2401.97	445.59	0.01
US Route 1-DS01	1975	50-Year	1042.29	6.30	13.17	13.17	13.76	0.002410	3.03	188.21	163.39	0.21
US Route 1-DS01	1975	100-Year	1254.31	6.30	13.34	13.34	13.97	0.002525	3.15	216.15	173.98	0.21
US Route 1-DS01	1975	500-Year	1834.79	6.30	13.74	13.74	14.47	0.002604	3.33	291.76	199.83	0.22
US Route 1-DS01	1920	2-Year	284.35	5.50	9.90	9.90	10.31	0.007284	4.80	55.28	74.45	0.43
US Route 1-DS01	1920	10-Year	614.85	5.50	16.56		16.56	0.000001	0.12	2355.28	650.47	0.01
US Route 1-DS01	1920	25-Year	837.74	5.50	18.96		18.96	0.000001	0.08	3913.40	650.47	0.00
US Route 1-DS01	1920	50-Year	1042.29	5.50	11.37		11.81	0.001882	2.82	203.42	120.92	0.22
US Route 1-DS01	1920	100-Year	1254.31	5.50	11.83		12.22	0.001248	2.43	261.08	127.93	0.18
US Route 1-DS01	1920	500-Year	1834.79	5.50	13.22		13.41	0.000425	1.64	577.00	481.17	0.11
US Route 1-DS01	1875	2-Year	284.35	4.00	9.15		9.37	0.002468	4.09	75.54	32.50	0.34
US Route 1-DS01	1875	10-Year	614.85	4.00	16.56		16.56	0.000002	0.19	2464.24	695.70	0.01
US Route 1-DS01	1875	25-Year	837.74	4.00	18.96		18.96	0.000001	0.13	4130.71	695.70	0.01
US Route 1-DS01	1875	50-Year	1042.29	4.00	10.63		11.59	0.007621	8.05	132.62	46.32	0.58
US Route 1-DS01	1875	100-Year	1254.31	4.00	11.53		12.09	0.005332	7.40	216.08	137.17	0.50
US Route 1-DS01	1875	500-Year	1834.79	4.00	13.23		13.37	0.000688	3.09	631.44	481.93	0.19
US Route 1-DS01	1590	2-Year	284.35	2.77	9.27		9.28	0.000033	0.56	495.84	249.88	0.04
US Route 1-DS01	1590	10-Year	614.85	2.77	16.56		16.56	0.000000	0.11	2935.90	397.63	0.01
US Route 1-DS01	1590	25-Year	837.74	2.77	18.96		18.96	0.000000	0.11	3937.03	438.43	0.00
US Route 1-DS01	1590	50-Year	1042.29	2.77	11.26		11.28	0.000039	0.73	1052.88	312.86	0.04
US Route 1-DS01	1590	100-Year	1254.31	2.77	11.88		11.90	0.000031	0.68	1248.71	319.01	0.04
US Route 1-DS01	1590	500-Year	1834.79	2.77	13.29		13.32	0.000023	0.65	1714.59	340.94	0.04
US Route 1-DS01	1500	2-Year	315.02	3.00	9.26		9.27	0.000076	0.83	325.08	187.76	0.06
US Route 1-DS01	1500	10-Year	658.66	3.00	16.56		16.56	0.000001	0.16	2289.37	325.46	0.01
US Route 1-DS01	1500	25-Year	876.06	3.00	18.96		18.96	0.000001	0.14	3081.50	335.41	0.01
US Route 1-DS01	1500	50-Year	1110.42	3.00	11.23		11.27	0.000076	1.02	756.05	251.41	0.07
US Route 1-DS01	1500	100-Year	1338.32	3.00	11.86		11.89	0.000058	0.95	913.85	254.53	0.06
US Route 1-DS01	1500	500-Year	1970.91	3.00	13.27		13.31	0.000044	0.91	1287.24	275.82	0.05
US Route 1-DS01	1360	2-Year	315.02	2.40	9.18		9.25	0.000475	2.29	169.29	56.42	0.16
US Route 1-DS01	1360	10-Year	658.66	2.40	16.56		16.56	0.000006	0.44	1320.11	228.92	0.02
US Route 1-DS01	1360	25-Year	876.06	2.40	18.95		18.96	0.000004	0.38	1882.68	240.00	0.02
US Route 1-DS01	1360	50-Year	1110.42	2.40	10.86		11.21	0.001226	4.33	266.52	119.43	0.28
US Route 1-DS01	1360	100-Year	1338.32	2.40	11.55		11.85	0.000994	4.13	344.74	132.65	0.25
US Route 1-DS01	1360	500-Year	1970.91	2.40	13.05		13.28	0.000582	3.53	568.23	178.65	0.20
US Route 1-DS01	1200	2-Year	315.02	1.60	9.17		9.20	0.000120	1.33	279.39	71.32	0.09
US Route 1-DS01	1200	10-Year	658.66	1.60	16.56		16.56	0.000004	0.40	1521.36	232.21	0.02
US Route 1-DS01	1200	25-Year	876.06	1.60	18.95		18.96	0.000003	0.34	2077.72	232.21	0.01
US Route 1-DS01	1200	50-Year	1110.42	1.60	10.94		11.04	0.000365	2.68	485.80	128.21	0.16
US Route 1-DS01	1200	100-Year	1338.32	1.60	11.60		11.70	0.000328	2.67	574.78	140.58	0.15
US Route 1-DS01	1200	500-Year	1970.91	1.60	13.07		13.18	0.000269	2.66	803.02	171.03	0.14

Deadman Brook Natural Conditions

HEC-RAS Plan: Natural (Continued)

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
US Route 1-DS01	1140	2-Year	315.02	-0.57	9.10		9.18	0.000453	2.42	183.58	80.30	0.14
US Route 1-DS01	1140	10-Year	658.66	-0.57	16.55		16.56	0.000007	0.46	1293.85	205.75	0.02
US Route 1-DS01	1140	25-Year	876.06	-0.57	18.95		18.96	0.000004	0.39	1801.96	217.47	0.02
US Route 1-DS01	1140	50-Year	1110.42	-0.57	10.76		10.98	0.001164	4.35	350.42	117.53	0.24
US Route 1-DS01	1140	100-Year	1338.32	-0.57	11.45		11.65	0.000866	3.92	435.65	127.64	0.21
US Route 1-DS01	1140	500-Year	1970.91	-0.57	12.91		13.14	0.000571	3.46	638.78	151.11	0.17
US Route 1-DS01	1080	2-Year	315.02	-0.86	9.13		9.15	0.000102	1.33	276.01	53.42	0.08
US Route 1-DS01	1080	10-Year	658.66	-0.86	16.55		16.56	0.000010	0.64	1209.46	211.74	0.03
US Route 1-DS01	1080	25-Year	876.06	-0.86	18.95		18.96	0.000006	0.55	1788.59	263.17	0.02
US Route 1-DS01	1080	50-Year	1110.42	-0.86	10.74		10.92	0.000583	3.58	387.21	89.18	0.20
US Route 1-DS01	1080	100-Year	1338.32	-0.86	11.43		11.61	0.000571	3.71	453.36	101.52	0.20
US Route 1-DS01	1080	500-Year	1970.91	-0.86	12.90		13.10	0.000523	3.87	616.12	118.37	0.20
US Route 1-DS01	1020	2-Year	315.02	1.40	9.13		9.14	0.000070	1.05	357.70	72.26	0.07
US Route 1-DS01	1020	10-Year	658.66	1.40	16.55		16.56	0.000006	0.47	1413.41	222.17	0.02
US Route 1-DS01	1020	25-Year	876.06	1.40	18.95		18.96	0.000004	0.41	1992.52	263.09	0.02
US Route 1-DS01	1020	50-Year	1110.42	1.40	10.77		10.87	0.000351	2.67	491.39	89.16	0.16
US Route 1-DS01	1020	100-Year	1338.32	1.40	11.45		11.56	0.000358	2.83	553.99	95.96	0.16
US Route 1-DS01	1020	500-Year	1970.91	1.40	12.92		13.06	0.000384	3.22	739.39	146.65	0.17
US Route 1-DS01	800	2-Year	315.02	1.40	9.14		9.14	0.000007	0.32	1059.33	155.25	0.02
US Route 1-DS01	800	10-Year	658.66	1.40	16.56		16.56	0.000003	0.32	2407.54	263.75	0.01
US Route 1-DS01	800	25-Year	876.06	1.40	18.95		18.95	0.000002	0.34	3093.76	309.01	0.01
US Route 1-DS01	800	50-Year	1110.42	1.40	10.81		10.82	0.000042	0.93	1322.38	158.75	0.05
US Route 1-DS01	800	100-Year	1338.32	1.40	11.49		11.51	0.000047	1.04	1431.40	160.74	0.06
US Route 1-DS01	800	500-Year	1970.91	1.40	12.97		13.00	0.000064	1.32	1671.98	165.40	0.07
US Route 1-DS01	600	2-Year	315.02	1.20	9.13		9.14	0.000003	0.21	1612.45	229.93	0.01
US Route 1-DS01	600	10-Year	658.66	1.20	16.56		16.56	0.000001	0.21	3656.30	403.18	0.01
US Route 1-DS01	600	25-Year	876.06	1.20	18.95		18.95	0.000001	0.22	4622.67	403.18	0.01
US Route 1-DS01	600	50-Year	1110.42	1.20	10.81		10.82	0.000017	0.61	2004.60	238.07	0.03
US Route 1-DS01	600	100-Year	1338.32	1.20	11.50		11.50	0.000019	0.68	2168.50	241.70	0.04
US Route 1-DS01	600	500-Year	1970.91	1.20	12.97		12.98	0.000026	0.87	2532.93	252.83	0.04
US Route 1-DS01	420	2-Year	315.02	0.00	9.13		9.13	0.000004	0.30	1127.94	137.63	0.02
US Route 1-DS01	420	10-Year	658.66	0.00	16.55		16.56	0.000002	0.33	2238.84	164.27	0.01
US Route 1-DS01	420	25-Year	876.06	0.00	18.95		18.95	0.000003	0.38	2632.48	164.27	0.02
US Route 1-DS01	420	50-Year	1110.42	0.00	10.80		10.81	0.000030	0.88	1361.62	142.37	0.05
US Route 1-DS01	420	100-Year	1338.32	0.00	11.48		11.50	0.000036	0.99	1459.16	144.35	0.05
US Route 1-DS01	420	500-Year	1970.91	0.00	12.95		12.98	0.000051	1.29	1674.72	149.28	0.06
US Route 1-DS01	370	2-Year	315.02	-2.64	9.13		9.13	0.000031	0.79	666.35	91.39	0.04
US Route 1-DS01	370	10-Year	658.66	-2.64	16.55		16.56	0.000016	0.80	1455.34	118.00	0.03
US Route 1-DS01	370	25-Year	876.06	-2.64	18.95		18.95	0.000017	0.89	1738.04	118.00	0.03
US Route 1-DS01	370	50-Year	1110.42	-2.64	10.76		10.81	0.000218	2.30	822.28	98.89	0.11
US Route 1-DS01	370	100-Year	1338.32	-2.64	11.43		11.49	0.000256	2.57	889.46	101.23	0.12
US Route 1-DS01	370	500-Year	1970.91	-2.64	12.87		12.96	0.000364	3.27	1039.02	106.10	0.15
US Route 1-DS01	320	2-Year	315.02	-3.09	9.12		9.13	0.000038	0.88	571.66	77.74	0.04
US Route 1-DS01	320	10-Year	658.66	-3.09	16.55		16.55	0.000024	0.96	1327.96	155.00	0.04
US Route 1-DS01	320	25-Year	876.06	-3.09	18.94		18.95	0.000022	1.00	1699.49	155.00	0.04
US Route 1-DS01	320	50-Year	1110.42	-3.09	10.73		10.79	0.000281	2.59	701.99	84.97	0.12
US Route 1-DS01	320	100-Year	1338.32	-3.09	11.39		11.47	0.000334	2.91	759.37	87.97	0.13
US Route 1-DS01	320	500-Year	1970.91	-3.09	12.81		12.94	0.000483	3.73	888.76	94.37	0.17
US Route 1-DS01	220	2-Year	315.02	-2.72	9.12		9.13	0.000011	0.48	700.10	87.17	0.03
US Route 1-DS01	220	10-Year	658.66	-2.72	16.55		16.55	0.000006	0.53	1491.94	122.15	0.02
US Route 1-DS01	220	25-Year	876.06	-2.72	18.94		18.95	0.000007	0.61	1792.40	126.80	0.02
US Route 1-DS01	220	50-Year	1110.42	-2.72	10.73		10.76	0.000078	1.44	846.80	95.55	0.08
US Route 1-DS01	220	100-Year	1338.32	-2.72	11.40		11.44	0.000092	1.62	911.02	97.34	0.08
US Route 1-DS01	220	500-Year	1970.91	-2.72	12.82		12.89	0.000134	2.11	1059.59	109.74	0.10
US Route 1-DS01	0	2-Year	315.02	2.00	9.12	2.98	9.13	0.000030	0.66	520.30	88.75	0.04
US Route 1-DS01	0	10-Year	658.66	2.00	16.55	3.58	16.55	0.000010	0.61	1348.62	129.83	0.03
US Route 1-DS01	0	25-Year	876.06	2.00	18.94	3.90	18.95	0.000010	0.68	1669.10	137.70	0.03
US Route 1-DS01	0	50-Year	1110.42	2.00	10.70	4.21	10.75	0.000186	1.87	666.09	95.85	0.11
US Route 1-DS01	0	100-Year	1338.32	2.00	11.36	4.48	11.42	0.000209	2.08	730.82	101.49	0.12
US Route 1-DS01	0	500-Year	1970.91	2.00	12.77	5.18	12.87	0.000275	2.62	884.14	114.12	0.14

Deadman Brook Tributaries Natural Conditions

HEC-RAS Plan: Natural

River	Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
Tributary 8	Sturges Hwy	430	2-Year	16.21	227.60	228.20	228.20	228.46	0.039140	4.07	3.98	7.81	1.00
Tributary 8	Sturges Hwy	430	10-Year	41.31	227.60	228.66	228.66	229.08	0.034114	5.19	7.96	9.63	1.01
Tributary 8	Sturges Hwy	430	25-Year	58.97	227.60	228.90	228.90	229.40	0.032164	5.64	10.45	10.62	1.00
Tributary 8	Sturges Hwy	430	50-Year	73.24	227.60	229.06	229.06	229.63	0.031326	6.02	12.18	11.27	1.01
Tributary 8	Sturges Hwy	430	100-Year	87.62	227.60	229.21	229.21	229.84	0.029801	6.36	13.85	11.87	1.00
Tributary 8	Sturges Hwy	430	500-Year	127.40	227.60	229.57	229.57	230.36	0.026470	7.12	18.49	13.41	0.99
Tributary 8	Sturges Hwy	380	2-Year	16.21	224.40	225.93	224.97	225.97	0.002222	1.60	10.11	6.60	0.23
Tributary 8	Sturges Hwy	380	10-Year	41.31	224.40	226.71	225.48	226.80	0.003169	2.50	21.74	28.10	0.29
Tributary 8	Sturges Hwy	380	25-Year	58.97	224.40	226.91	225.76	227.05	0.004514	3.15	26.25	36.80	0.35
Tributary 8	Sturges Hwy	380	50-Year	73.24	224.40	227.11	225.96	227.27	0.004900	3.45	30.93	48.29	0.37
Tributary 8	Sturges Hwy	380	100-Year	87.62	224.40	227.29	226.29	227.47	0.005209	3.71	35.18	57.82	0.39
Tributary 8	Sturges Hwy	380	500-Year	127.40	224.40	227.71	226.90	227.93	0.005923	4.33	45.05	74.14	0.42
Tributary 8	Sturges Hwy	310	2-Year	16.21	224.65	225.24	225.24	225.53	0.036474	4.30	3.85	9.73	0.98
Tributary 8	Sturges Hwy	310	10-Year	41.31	224.65	225.75	225.75	226.25	0.028321	5.73	7.89	16.25	0.96
Tributary 8	Sturges Hwy	310	25-Year	58.97	224.65	225.94	225.94	226.38	0.024870	5.77	14.16	18.62	0.90
Tributary 8	Sturges Hwy	310	50-Year	73.24	224.65	226.11	226.11	226.57	0.023324	6.06	17.45	20.60	0.88
Tributary 8	Sturges Hwy	310	100-Year	87.62	224.65	226.25	226.25	226.75	0.022811	6.37	20.46	22.17	0.89
Tributary 8	Sturges Hwy	310	500-Year	127.40	224.65	226.57	226.57	227.15	0.022304	7.12	28.18	25.78	0.91
Tributary 8	Sturges Hwy	260	2-Year	16.21	224.00	225.10	224.53	225.11	0.001828	1.13	14.44	22.03	0.23
Tributary 8	Sturges Hwy	260	10-Year	41.31	224.00	225.56	224.86	225.60	0.002144	1.70	26.90	32.36	0.28
Tributary 8	Sturges Hwy	260	25-Year	58.97	224.00	225.73	225.02	225.79	0.002679	2.08	32.41	36.19	0.32
Tributary 8	Sturges Hwy	260	50-Year	73.24	224.00	225.83	225.13	225.91	0.003144	2.37	35.98	38.55	0.35
Tributary 8	Sturges Hwy	260	100-Year	87.62	224.00	225.94	225.24	226.04	0.003472	2.61	40.95	40.90	0.37
Tributary 8	Sturges Hwy	260	500-Year	127.40	224.00	226.33	225.49	226.44	0.003091	2.86	58.18	46.14	0.36
Tributary 8	Sturges Hwy	185	2-Year	16.21	223.80	224.79		224.86	0.008129	2.13	7.60	47.52	0.48
Tributary 8	Sturges Hwy	185	10-Year	41.31	223.80	225.11	224.88	225.27	0.012802	3.28	17.86	72.19	0.63
Tributary 8	Sturges Hwy	185	25-Year	58.97	223.80	225.28	225.19	225.43	0.010901	3.41	30.68	79.20	0.60
Tributary 8	Sturges Hwy	185	50-Year	73.24	223.80	225.45		225.56	0.007733	3.19	44.23	80.86	0.52
Tributary 8	Sturges Hwy	185	100-Year	87.62	223.80	225.60		225.70	0.006107	3.07	56.63	82.35	0.47
Tributary 8	Sturges Hwy	185	500-Year	127.40	223.80	226.17		226.22	0.002466	2.47	105.12	87.32	0.32
Tributary 8	Sturges Hwy	135	2-Year	16.21	223.00	224.58		224.62	0.002959	1.81	23.98	85.18	0.25
Tributary 8	Sturges Hwy	135	10-Year	41.31	223.00	224.97		224.99	0.002363	1.87	67.63	127.04	0.23
Tributary 8	Sturges Hwy	135	25-Year	58.97	223.00	225.17		225.19	0.002025	1.84	93.31	132.17	0.22
Tributary 8	Sturges Hwy	135	50-Year	73.24	223.00	225.37		225.39	0.001494	1.68	120.37	134.68	0.19
Tributary 8	Sturges Hwy	135	100-Year	87.62	223.00	225.54		225.55	0.001286	1.63	142.66	136.37	0.18
Tributary 8	Sturges Hwy	135	500-Year	127.40	223.00	226.14		226.15	0.000656	1.34	226.95	142.23	0.13
Tributary 8	Sturges Hwy	115	2-Year	16.21	223.00	224.44	223.87	224.52	0.006533	2.52	18.48	147.42	0.37
Tributary 8	Sturges Hwy	115	10-Year	41.31	223.00	224.95		224.95	0.001160	1.30	97.98	167.70	0.16
Tributary 8	Sturges Hwy	115	25-Year	58.97	223.00	225.15		225.15	0.000982	1.27	132.54	173.53	0.15
Tributary 8	Sturges Hwy	115	50-Year	73.24	223.00	225.36		225.36	0.000721	1.16	169.09	176.36	0.13
Tributary 8	Sturges Hwy	115	100-Year	87.62	223.00	225.52		225.53	0.000627	1.13	198.69	178.32	0.13
Tributary 8	Sturges Hwy	115	500-Year	127.40	223.00	226.14		226.14	0.000329	0.95	310.02	184.90	0.09
Tributary 8	Sturges Hwy	60	2-Year	16.21	223.40	224.13		224.17	0.006496	1.69	11.59	54.28	0.42
Tributary 8	Sturges Hwy	60	10-Year	41.31	223.40	224.93		224.93	0.000170	0.51	128.00	261.94	0.08
Tributary 8	Sturges Hwy	60	25-Year	58.97	223.40	225.13		225.14	0.000152	0.53	181.31	263.41	0.08
Tributary 8	Sturges Hwy	60	50-Year	73.24	223.40	225.34		225.35	0.000117	0.51	237.31	264.88	0.07
Tributary 8	Sturges Hwy	60	100-Year	87.62	223.40	225.51		225.52	0.000104	0.51	281.93	266.04	0.07
Tributary 8	Sturges Hwy	60	500-Year	127.40	223.40	226.13		226.13	0.000058	0.46	447.33	270.43	0.05
Tributary 7	Merritt Pkwy	925	2-Year	9.54	204.00	204.67		204.70	0.004236	1.32	7.25	14.99	0.33
Tributary 7	Merritt Pkwy	925	10-Year	28.31	204.00	205.12		205.17	0.004507	1.88	15.26	22.63	0.37
Tributary 7	Merritt Pkwy	925	25-Year	42.15	204.00	205.32		205.40	0.004501	2.19	20.60	28.97	0.39
Tributary 7	Merritt Pkwy	925	50-Year	53.50	204.00	205.47		205.56	0.004457	2.39	25.21	33.48	0.39
Tributary 7	Merritt Pkwy	925	100-Year	65.06	204.00	205.60		205.70	0.004412	2.56	30.00	37.61	0.40
Tributary 7	Merritt Pkwy	925	500-Year	97.85	204.00	205.91		206.04	0.004532	3.00	42.79	46.88	0.42
Tributary 7	Merritt Pkwy	875	2-Year	9.54	203.60	204.00	204.00	204.17	0.044237	3.23	2.96	9.24	1.01
Tributary 7	Merritt Pkwy	875	10-Year	28.31	203.60	204.36	204.36	204.63	0.037282	4.16	6.80	12.73	1.00
Tributary 7	Merritt Pkwy	875	25-Year	42.15	203.60	204.53	204.53	204.86	0.033500	4.66	9.17	15.25	0.99
Tributary 7	Merritt Pkwy	875	50-Year	53.50	203.60	204.65	204.65	205.03	0.031197	5.01	11.12	17.17	0.98
Tributary 7	Merritt Pkwy	875	100-Year	65.06	203.60	204.76	204.76	205.19	0.029125	5.29	13.20	19.01	0.97
Tributary 7	Merritt Pkwy	875	500-Year	97.85	203.60	205.12	205.12	205.57	0.020427	5.51	22.64	35.90	0.86
Tributary 7	Merritt Pkwy	675	2-Year	9.54	202.60	203.18		203.18	0.000306	0.37	25.84	50.51	0.09
Tributary 7	Merritt Pkwy	675	10-Year	28.31	202.60	203.52		203.53	0.000508	0.64	43.95	54.44	0.13
Tributary 7	Merritt Pkwy	675	25-Year	42.15	202.60	203.67		203.68	0.000661	0.81	52.21	56.15	0.15
Tributary 7	Merritt Pkwy	675	50-Year	53.50	202.60	203.78		203.79	0.000765	0.92	58.16	57.34	0.16
Tributary 7	Merritt Pkwy	675	100-Year	65.06	202.60	203.88		203.90	0.000834	1.01	64.27	58.54	0.17
Tributary 7	Merritt Pkwy	675	500-Year	97.85	202.60	204.13		204.16	0.000970	1.24	79.39	62.82	0.19
Tributary 7	Merritt Pkwy	600	2-Year	9.54	202.60	203.13		203.13	0.001445	0.63	15.08	42.10	0.19
Tributary 7	Merritt Pkwy	600	10-Year	28.31	202.60	203.45		203.46	0.001589	0.96	29.51	48.89	0.21
Tributary 7	Merritt Pkwy	600	25-Year	42.15	202.60	203.58		203.60	0.001928	1.18	36.14	54.46	0.24
Tributary 7	Merritt Pkwy	600	50-Year	53.50	202.60	203.67		203.70	0.002137	1.33	41.22	57.19	0.26
Tributary 7	Merritt Pkwy	600	100-Year	65.06	202.60	203.77		203.80	0.002194	1.44	46.93	59.70	0.27
Tributary 7	Merritt Pkwy	600	500-Year	97.85	202.60	204.00		204.04	0.002340	1.69	61.60	86.19	0.29

Deadman Brook Tributaries Natural Conditions

HEC-RAS Plan: Natural (Continued)

River	Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
Tributary 7	Merritt Pkwy	550	2-Year	9.54	202.60	202.89		202.95	0.030525	2.06	4.63	21.69	0.79
Tributary 7	Merritt Pkwy	550	10-Year	28.31	202.60	203.24		203.29	0.015852	1.86	15.25	51.06	0.60
Tributary 7	Merritt Pkwy	550	25-Year	42.15	202.60	203.34		203.40	0.014011	2.06	20.44	53.31	0.59
Tributary 7	Merritt Pkwy	550	50-Year	53.50	202.60	203.42		203.49	0.011867	2.13	25.16	55.28	0.56
Tributary 7	Merritt Pkwy	550	100-Year	65.06	202.60	203.56		203.62	0.007771	1.98	32.82	58.34	0.47
Tributary 7	Merritt Pkwy	550	500-Year	97.85	202.60	203.82		203.89	0.004987	1.99	50.63	77.44	0.39
Tributary 7	Merritt Pkwy	365	2-Year	9.54	200.40	201.03	200.76	201.05	0.005028	1.32	7.24	33.08	0.36
Tributary 7	Merritt Pkwy	365	10-Year	28.31	200.40	201.38	201.04	201.44	0.006878	1.91	15.07	55.11	0.44
Tributary 7	Merritt Pkwy	365	25-Year	42.15	200.40	201.54	201.19	201.61	0.007075	2.24	19.37	62.58	0.46
Tributary 7	Merritt Pkwy	365	50-Year	53.50	200.40	201.62	201.30	201.72	0.007879	2.55	21.89	66.75	0.50
Tributary 7	Merritt Pkwy	365	100-Year	65.06	200.40	201.58	201.39	201.75	0.013522	3.24	20.83	64.91	0.65
Tributary 7	Merritt Pkwy	365	500-Year	97.85	200.40	201.57	201.57	201.95	0.032432	4.96	20.43	64.27	1.00
Tributary 7	Merritt Pkwy	315	2-Year	9.54	200.00	200.45		200.51	0.031101	1.96	4.88	25.02	0.78
Tributary 7	Merritt Pkwy	315	10-Year	28.31	200.00	200.64		200.74	0.036617	2.49	11.37	45.90	0.88
Tributary 7	Merritt Pkwy	315	25-Year	42.15	200.00	200.69	200.69	200.84	0.047899	3.02	13.97	51.70	1.02
Tributary 7	Merritt Pkwy	315	50-Year	53.50	200.00	200.75	200.75	200.90	0.044553	3.10	17.28	58.26	1.00
Tributary 7	Merritt Pkwy	315	100-Year	65.06	200.00	200.94		201.02	0.013280	2.25	29.14	67.59	0.59
Tributary 7	Merritt Pkwy	315	500-Year	97.85	200.00	201.47		201.51	0.002162	1.53	71.41	109.20	0.27
Tributary 7	Merritt Pkwy	95	2-Year	9.54	199.00	199.57		199.58	0.001580	0.71	13.38	33.39	0.20
Tributary 7	Merritt Pkwy	95	10-Year	28.31	199.00	200.04		200.05	0.001043	0.68	42.36	107.72	0.17
Tributary 7	Merritt Pkwy	95	25-Year	42.15	199.00	200.45		200.46	0.000283	0.53	97.26	162.94	0.10
Tributary 7	Merritt Pkwy	95	50-Year	53.50	199.00	200.66		200.66	0.000217	0.53	132.55	181.23	0.09
Tributary 7	Merritt Pkwy	95	100-Year	65.06	199.00	200.88		200.88	0.000164	0.52	173.10	189.63	0.08
Tributary 7	Merritt Pkwy	95	500-Year	97.85	199.00	201.44		201.44	0.000099	0.51	284.81	206.18	0.06
Tributary 6	Bayberry Ln	360	2-Year	14.14	200.40	201.55		201.55	0.000377	0.55	31.60	58.62	0.11
Tributary 6	Bayberry Ln	360	10-Year	30.20	200.40	201.87		201.88	0.000489	0.78	54.49	85.24	0.13
Tributary 6	Bayberry Ln	360	25-Year	40.87	200.40	202.06		202.07	0.000478	0.86	72.64	102.87	0.13
Tributary 6	Bayberry Ln	360	50-Year	49.26	200.40	202.36		202.36	0.000297	0.78	106.77	123.46	0.11
Tributary 6	Bayberry Ln	360	100-Year	57.62	200.40	202.09		202.11	0.000877	1.18	75.37	105.44	0.18
Tributary 6	Bayberry Ln	360	500-Year	79.44	200.40	202.19		202.22	0.001217	1.47	87.16	115.87	0.22
Tributary 6	Bayberry Ln	310	2-Year	14.14	200.20	201.42	200.87	201.50	0.005406	2.27	9.04	17.92	0.36
Tributary 6	Bayberry Ln	310	10-Year	30.20	200.20	201.56	201.39	201.78	0.015813	4.15	12.10	28.92	0.63
Tributary 6	Bayberry Ln	310	25-Year	40.87	200.20	201.60	201.60	201.96	0.024937	5.32	13.39	32.47	0.79
Tributary 6	Bayberry Ln	310	50-Year	49.26	200.20	201.47	201.47	202.24	0.056041	7.49	10.00	21.95	1.17
Tributary 6	Bayberry Ln	310	100-Year	57.62	200.20	201.88	201.88	201.99	0.009259	3.66	30.50	83.68	0.50
Tributary 6	Bayberry Ln	310	500-Year	79.44	200.20	201.94	201.94	202.07	0.010943	4.08	35.76	88.39	0.54
Tributary 6	Bayberry Ln	290	2-Year	14.14	200.20	201.18	200.87	201.31	0.012925	3.01	6.27	34.34	0.54
Tributary 6	Bayberry Ln	290	10-Year	30.20	200.20	201.35	201.35	201.45	0.010780	3.08	15.11	57.95	0.51
Tributary 6	Bayberry Ln	290	25-Year	40.87	200.20	201.43	201.39	201.52	0.008992	2.93	20.30	79.45	0.47
Tributary 6	Bayberry Ln	290	50-Year	49.26	200.20	201.48	201.42	201.57	0.007804	2.81	24.55	80.78	0.44
Tributary 6	Bayberry Ln	290	100-Year	57.62	200.20	201.53	201.46	201.62	0.006940	2.72	28.57	82.01	0.42
Tributary 6	Bayberry Ln	290	500-Year	79.44	200.20	201.68	201.52	201.76	0.004600	2.37	40.69	85.36	0.34
Tributary 6	Bayberry Ln	240	2-Year	14.14	199.60	200.08	200.08	200.26	0.041364	3.42	4.19	12.86	1.00
Tributary 6	Bayberry Ln	240	10-Year	30.20	199.60	200.33	200.33	200.60	0.031951	4.24	7.97	17.77	0.96
Tributary 6	Bayberry Ln	240	25-Year	40.87	199.60	200.46	200.46	200.77	0.029305	4.63	10.48	20.38	0.95
Tributary 6	Bayberry Ln	240	50-Year	49.26	199.60	200.55	200.55	200.90	0.027769	4.87	12.47	22.23	0.94
Tributary 6	Bayberry Ln	240	100-Year	57.62	199.60	200.64	200.64	201.01	0.026347	5.07	14.51	23.98	0.93
Tributary 6	Bayberry Ln	240	500-Year	79.44	199.60	200.80	200.80	201.27	0.027165	5.75	18.76	27.36	0.97
Tributary 6	Bayberry Ln	105	2-Year	14.14	197.20	198.03		198.09	0.007262	1.92	7.35	12.82	0.45
Tributary 6	Bayberry Ln	105	10-Year	30.20	197.20	198.72		198.76	0.002660	1.52	19.93	23.37	0.29
Tributary 6	Bayberry Ln	105	25-Year	40.87	197.20	199.01		199.05	0.002116	1.49	27.37	27.77	0.26
Tributary 6	Bayberry Ln	105	50-Year	49.26	197.20	199.18		199.22	0.001860	1.54	32.16	30.15	0.25
Tributary 6	Bayberry Ln	105	100-Year	57.62	197.20	199.32		199.36	0.001734	1.60	36.66	59.28	0.25
Tributary 6	Bayberry Ln	105	500-Year	79.44	197.20	199.78		199.82	0.001066	1.52	69.96	149.95	0.20
Tributary 5	Silent Grove N	1075	2-Year	2.54	194.40	195.30		195.30	0.000001	0.02	104.66	126.83	0.00
Tributary 5	Silent Grove N	1075	10-Year	18.69	194.40	196.07		196.07	0.000004	0.09	230.26	184.53	0.01
Tributary 5	Silent Grove N	1075	25-Year	31.57	194.40	196.59		196.59	0.000004	0.11	328.46	195.99	0.01
Tributary 5	Silent Grove N	1075	50-Year	41.34	194.40	196.95		196.95	0.000004	0.12	400.55	203.99	0.01
Tributary 5	Silent Grove N	1075	100-Year	50.62	194.40	197.26		197.26	0.000004	0.13	465.31	210.85	0.01
Tributary 5	Silent Grove N	1075	500-Year	74.64	194.40	198.07		198.07	0.000004	0.15	659.54	256.78	0.01
Tributary 5	Silent Grove N	870	2-Year	2.54	194.20	195.30		195.30	0.000001	0.03	77.35	89.02	0.01
Tributary 5	Silent Grove N	870	10-Year	18.69	194.20	196.07		196.07	0.000007	0.13	180.80	186.51	0.02
Tributary 5	Silent Grove N	870	25-Year	31.57	194.20	196.58		196.58	0.000008	0.16	281.00	201.82	0.02
Tributary 5	Silent Grove N	870	50-Year	41.34	194.20	196.94		196.94	0.000007	0.17	355.69	212.53	0.02
Tributary 5	Silent Grove N	870	100-Year	50.62	194.20	197.26		197.26	0.000007	0.18	423.77	223.71	0.02
Tributary 5	Silent Grove N	870	500-Year	74.64	194.20	198.07		198.07	0.000006	0.20	619.36	260.46	0.02
Tributary 5	Silent Grove N	665	2-Year	2.54	194.20	195.30		195.30	0.000001	0.03	77.61	80.87	0.01
Tributary 5	Silent Grove N	665	10-Year	18.69	194.20	196.07		196.07	0.000008	0.14	148.31	116.25	0.02
Tributary 5	Silent Grove N	665	25-Year	31.57	194.20	196.58		196.58	0.000009	0.18	215.03	145.82	0.02
Tributary 5	Silent Grove N	665	50-Year	41.34	194.20	196.94		196.94	0.000009	0.19	285.77	215.29	0.02
Tributary 5	Silent Grove N	665	100-Year	50.62	194.20	197.25		197.26	0.000009	0.20	354.55	223.91	0.02
Tributary 5	Silent Grove N	665	500-Year	74.64	194.20	198.07		198.07	0.000007	0.21	545.15	243.53	0.02

Deadman Brook Tributaries Natural Conditions

HEC-RAS Plan: Natural (Continued)

River	Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
Tributary 5	Silent Grove N	450	2-Year	2.54	194.20	195.30		195.30	0.000001	0.04	67.61	71.21	0.01
Tributary 5	Silent Grove N	450	10-Year	18.69	194.20	196.06		196.06	0.000010	0.16	127.20	84.25	0.02
Tributary 5	Silent Grove N	450	25-Year	31.57	194.20	196.58		196.58	0.000012	0.20	174.59	102.52	0.02
Tributary 5	Silent Grove N	450	50-Year	41.34	194.20	196.94		196.94	0.000013	0.22	215.75	123.74	0.02
Tributary 5	Silent Grove N	450	100-Year	50.62	194.20	197.25		197.25	0.000013	0.24	275.21	221.39	0.02
Tributary 5	Silent Grove N	450	500-Year	74.64	194.20	198.07		198.07	0.000010	0.25	471.90	267.60	0.02
Tributary 5	Silent Grove N	250	2-Year	2.54	193.80	195.30		195.30	0.000000	0.03	92.17	82.45	0.00
Tributary 5	Silent Grove N	250	10-Year	18.69	193.80	196.06		196.06	0.000005	0.12	162.66	136.67	0.01
Tributary 5	Silent Grove N	250	25-Year	31.57	193.80	196.58		196.58	0.000006	0.16	221.29	176.67	0.02
Tributary 5	Silent Grove N	250	50-Year	41.34	193.80	196.94		196.94	0.000006	0.18	269.16	200.38	0.02
Tributary 5	Silent Grove N	250	100-Year	50.62	193.80	197.25		197.25	0.000006	0.19	314.85	227.18	0.02
Tributary 5	Silent Grove N	250	500-Year	74.64	193.80	198.07		198.07	0.000007	0.22	474.19	433.50	0.02
Tributary 5	Silent Grove N	50	2-Year	2.54	193.20	195.30		195.30	0.000000	0.03	116.73	112.17	0.00
Tributary 5	Silent Grove N	50	10-Year	18.69	193.20	196.06		196.06	0.000005	0.14	219.52	157.64	0.01
Tributary 5	Silent Grove N	50	25-Year	31.57	193.20	196.58		196.58	0.000006	0.18	312.63	193.75	0.02
Tributary 5	Silent Grove N	50	50-Year	41.34	193.20	196.94		196.94	0.000006	0.19	384.09	202.74	0.02
Tributary 5	Silent Grove N	50	100-Year	50.62	193.20	197.25		197.25	0.000006	0.21	448.77	259.70	0.02
Tributary 5	Silent Grove N	50	500-Year	74.64	193.20	198.07		198.07	0.000006	0.23	650.11	521.97	0.02
Tributary 4	Lehn Farm Rd	895	2-Year	30.77	138.00	138.76		138.79	0.005355	1.46	21.07	44.81	0.38
Tributary 4	Lehn Farm Rd	895	10-Year	70.78	138.00	139.47		139.50	0.001241	1.26	57.03	54.42	0.21
Tributary 4	Lehn Farm Rd	895	25-Year	98.04	138.00	139.89		139.91	0.000836	1.27	80.33	58.94	0.18
Tributary 4	Lehn Farm Rd	895	50-Year	119.87	138.00	140.28		140.31	0.000569	1.23	104.41	61.34	0.15
Tributary 4	Lehn Farm Rd	895	100-Year	141.73	138.00	140.60		140.62	0.000473	1.24	124.11	62.61	0.14
Tributary 4	Lehn Farm Rd	895	500-Year	199.96	138.00	141.25		141.28	0.000395	1.34	165.71	65.67	0.14
Tributary 4	Lehn Farm Rd	745	2-Year	30.77	137.60	138.67		138.68	0.000263	0.51	60.65	67.26	0.09
Tributary 4	Lehn Farm Rd	745	10-Year	70.78	137.60	139.43		139.43	0.000189	0.64	114.65	74.05	0.09
Tributary 4	Lehn Farm Rd	745	25-Year	98.04	137.60	139.85		139.86	0.000171	0.71	146.13	75.68	0.09
Tributary 4	Lehn Farm Rd	745	50-Year	119.87	137.60	140.26		140.26	0.000140	0.72	177.43	78.16	0.08
Tributary 4	Lehn Farm Rd	745	100-Year	141.73	137.60	140.58		140.59	0.000130	0.76	202.95	80.54	0.08
Tributary 4	Lehn Farm Rd	745	500-Year	199.96	137.60	141.23		141.24	0.000128	0.86	257.08	84.77	0.08
Tributary 4	Lehn Farm Rd	545	2-Year	30.77	137.60	138.59		138.60	0.000582	0.57	54.09	91.80	0.13
Tributary 4	Lehn Farm Rd	545	10-Year	70.78	137.60	139.39		139.40	0.000183	0.56	133.19	105.39	0.08
Tributary 4	Lehn Farm Rd	545	25-Year	98.04	137.60	139.82		139.82	0.000142	0.59	179.41	110.94	0.08
Tributary 4	Lehn Farm Rd	545	50-Year	119.87	137.60	140.23		140.24	0.000106	0.58	226.70	117.30	0.07
Tributary 4	Lehn Farm Rd	545	100-Year	141.73	137.60	140.56		140.56	0.000093	0.60	265.65	122.96	0.07
Tributary 4	Lehn Farm Rd	545	500-Year	199.96	137.60	141.21		141.22	0.000084	0.66	350.49	137.55	0.06
Tributary 4	Lehn Farm Rd	345	2-Year	30.77	137.40	138.56		138.56	0.000081	0.27	124.33	162.68	0.05
Tributary 4	Lehn Farm Rd	345	10-Year	70.78	137.40	139.38		139.38	0.000042	0.30	263.01	175.50	0.04
Tributary 4	Lehn Farm Rd	345	25-Year	98.04	137.40	139.81		139.81	0.000037	0.33	339.43	180.04	0.04
Tributary 4	Lehn Farm Rd	345	50-Year	119.87	137.40	140.23		140.23	0.000030	0.33	417.30	196.57	0.04
Tributary 4	Lehn Farm Rd	345	100-Year	141.73	137.40	140.55		140.55	0.000027	0.35	484.06	213.86	0.04
Tributary 4	Lehn Farm Rd	345	500-Year	199.96	137.40	141.21		141.21	0.000026	0.39	635.50	243.51	0.04
Tributary 4	Lehn Farm Rd	295	2-Year	30.77	136.30	138.40	137.66	138.54	0.008870	3.34	14.77	29.22	0.41
Tributary 4	Lehn Farm Rd	295	10-Year	70.78	136.30	139.35	138.60	139.37	0.002081	2.08	132.72	273.17	0.21
Tributary 4	Lehn Farm Rd	295	25-Year	98.04	136.30	139.80	138.84	139.80	0.000613	1.24	257.73	281.46	0.12
Tributary 4	Lehn Farm Rd	295	50-Year	119.87	136.30	140.22	139.00	140.22	0.000289	0.92	378.58	292.97	0.08
Tributary 4	Lehn Farm Rd	295	100-Year	141.73	136.30	140.55	139.00	140.55	0.000201	0.81	476.18	304.91	0.07
Tributary 4	Lehn Farm Rd	295	500-Year	199.96	136.30	141.21	139.00	141.21	0.000127	0.70	685.14	327.85	0.06
Tributary 4	Lehn Farm Rd	260	2-Year	30.77	136.20	138.48	137.17	138.48	0.000127	0.52	158.98	224.41	0.07
Tributary 4	Lehn Farm Rd	260	10-Year	70.78	136.20	139.36	137.55	139.36	0.000069	0.50	373.67	261.15	0.05
Tributary 4	Lehn Farm Rd	260	25-Year	98.04	136.20	139.80	137.92	139.80	0.000059	0.51	490.95	270.90	0.05
Tributary 4	Lehn Farm Rd	260	50-Year	119.87	136.20	140.22	138.00	140.22	0.000048	0.50	610.65	300.70	0.05
Tributary 4	Lehn Farm Rd	260	100-Year	141.73	136.20	140.55	138.10	140.55	0.000041	0.49	712.28	320.88	0.04
Tributary 4	Lehn Farm Rd	260	500-Year	199.96	136.20	141.20	138.24	141.21	0.000034	0.49	936.14	355.41	0.04
Tributary 4	Lehn Farm Rd	160	2-Year	30.77	137.00	138.45		138.46	0.000429	0.65	48.79	213.55	0.12
Tributary 4	Lehn Farm Rd	160	10-Year	70.78	137.00	139.34		139.35	0.000163	0.63	223.23	410.88	0.08
Tributary 4	Lehn Farm Rd	160	25-Year	98.04	137.00	139.79		139.79	0.000088	0.53	407.87	417.07	0.06
Tributary 4	Lehn Farm Rd	160	50-Year	119.87	137.00	140.21		140.22	0.000051	0.46	588.22	433.26	0.05
Tributary 4	Lehn Farm Rd	160	100-Year	141.73	137.00	140.54		140.54	0.000038	0.42	731.91	442.53	0.04
Tributary 4	Lehn Farm Rd	160	500-Year	199.96	137.00	141.20		141.20	0.000027	0.41	1031.41	469.47	0.04
Tributary 3B	Rosville Rd	1990	2-Year	23.29	174.80	175.57		175.60	0.002523	1.33	18.12	68.01	0.33
Tributary 3B	Rosville Rd	1990	10-Year	46.43	174.80	175.81		175.85	0.002432	1.70	37.95	110.54	0.35
Tributary 3B	Rosville Rd	1990	25-Year	63.28	174.80	176.11		176.13	0.001138	1.46	72.22	117.56	0.25
Tributary 3B	Rosville Rd	1990	50-Year	73.29	174.80	176.26		176.29	0.000863	1.40	90.87	119.56	0.23
Tributary 3B	Rosville Rd	1990	100-Year	84.98	174.80	176.51		176.53	0.000553	1.27	120.53	122.67	0.19
Tributary 3B	Rosville Rd	1990	500-Year	114.86	174.80	176.82		176.84	0.000476	1.34	158.73	126.56	0.18
Tributary 3B	Rosville Rd	1910	2-Year	23.29	174.20	174.91	174.91	175.13	0.021983	3.73	6.67	21.99	0.97
Tributary 3B	Rosville Rd	1910	10-Year	46.43	174.20	175.61		175.66	0.002218	2.19	44.92	78.82	0.36
Tributary 3B	Rosville Rd	1910	25-Year	63.28	174.20	176.01		176.04	0.001096	1.88	78.55	88.59	0.27
Tributary 3B	Rosville Rd	1910	50-Year	73.29	174.20	176.18		176.22	0.000915	1.85	94.29	90.59	0.25
Tributary 3B	Rosville Rd	1910	100-Year	84.98	174.20	176.45		176.48	0.000658	1.72	119.05	93.65	0.21
Tributary 3B	Rosville Rd	1910	500-Year	114.86	174.20	176.76		176.79	0.000658	1.89	148.37	97.15	0.22

Deadman Brook Tributaries Natural Conditions

HEC-RAS Plan: Natural (Continued)

River	Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
Tributary 3B	Rosville Rd	1855	2-Year	23.29	172.20	174.44	173.33	174.59	0.005412	3.05	7.63	3.40	0.36
Tributary 3B	Rosville Rd	1855	10-Year	46.43	172.20	175.16	174.00	175.45	0.008425	4.40	13.44	13.76	0.45
Tributary 3B	Rosville Rd	1855	25-Year	63.28	172.20	175.67	174.40	175.91	0.006825	4.39	29.26	47.86	0.42
Tributary 3B	Rosville Rd	1855	50-Year	73.29	172.20	175.95	174.64	176.11	0.004851	3.91	43.43	51.39	0.36
Tributary 3B	Rosville Rd	1855	100-Year	84.98	172.20	176.30	175.30	176.41	0.003420	3.48	62.98	66.39	0.30
Tributary 3B	Rosville Rd	1855	500-Year	114.86	172.20	175.57	175.38	176.59	0.027719	8.70	24.82	46.52	0.83
Tributary 3B	Rosville Rd	1790	2-Year	23.29	172.10	173.23	173.23	173.80	0.033997	6.05	3.85	3.40	1.00
Tributary 3B	Rosville Rd	1790	10-Year	46.43	172.10	174.16	174.16	174.64	0.017148	5.90	12.54	44.74	0.72
Tributary 3B	Rosville Rd	1790	25-Year	63.28	172.10	174.20	174.20	175.02	0.029007	7.77	13.36	46.80	0.95
Tributary 3B	Rosville Rd	1790	50-Year	73.29	172.10	174.20	174.20	175.30	0.038910	9.00	13.36	46.80	1.10
Tributary 3B	Rosville Rd	1790	100-Year	84.98	172.10	174.20	174.20	175.68	0.052313	10.44	13.36	46.80	1.27
Tributary 3B	Rosville Rd	1790	500-Year	114.86	172.10	174.87	174.87	175.18	0.012337	6.11	56.96	79.60	0.65
Tributary 3B	Rosville Rd	1740	2-Year	23.29	170.40	171.29	171.29	171.61	0.019943	4.56	5.44	10.12	0.98
Tributary 3B	Rosville Rd	1740	10-Year	46.43	170.40	171.69	171.69	172.15	0.015749	5.53	10.66	19.97	0.94
Tributary 3B	Rosville Rd	1740	25-Year	63.28	170.40	171.98	171.98	172.41	0.011665	5.56	18.13	29.12	0.84
Tributary 3B	Rosville Rd	1740	50-Year	73.29	170.40	172.08	172.08	172.54	0.011621	5.82	21.11	30.09	0.85
Tributary 3B	Rosville Rd	1740	100-Year	84.98	170.40	172.19	172.19	172.67	0.011494	6.08	24.50	31.09	0.85
Tributary 3B	Rosville Rd	1740	500-Year	114.86	170.40	172.42	172.42	172.99	0.011712	6.73	32.03	33.21	0.88
Tributary 3B	Rosville Rd	1520	2-Year	23.29	160.40	161.14	161.14	161.33	0.023024	3.55	7.17	25.61	0.97
Tributary 3B	Rosville Rd	1520	10-Year	46.43	160.40	161.37	161.37	161.64	0.018265	4.26	14.57	36.45	0.93
Tributary 3B	Rosville Rd	1520	25-Year	63.28	160.40	161.51	161.51	161.81	0.016957	4.65	19.74	41.49	0.93
Tributary 3B	Rosville Rd	1520	50-Year	73.29	160.40	161.57	161.57	161.90	0.016981	4.90	22.43	43.89	0.94
Tributary 3B	Rosville Rd	1520	100-Year	84.98	160.40	161.64	161.64	162.00	0.016487	5.12	25.88	47.06	0.94
Tributary 3B	Rosville Rd	1520	500-Year	114.86	160.40	161.82	161.82	162.22	0.015645	5.59	34.64	54.97	0.94
Tributary 3B	Rosville Rd	1360	2-Year	23.29	156.00	156.82	156.82	157.03	0.024020	3.68	6.81	20.92	0.99
Tributary 3B	Rosville Rd	1360	10-Year	46.43	156.00	157.09	157.09	157.35	0.016918	4.26	14.89	37.79	0.90
Tributary 3B	Rosville Rd	1360	25-Year	63.28	156.00	157.20	157.20	157.53	0.017748	4.83	19.35	42.01	0.95
Tributary 3B	Rosville Rd	1360	50-Year	73.29	156.00	157.29	157.29	157.62	0.016168	4.94	23.40	50.89	0.92
Tributary 3B	Rosville Rd	1360	100-Year	84.98	156.00	157.41	157.41	157.72	0.012963	4.82	30.45	62.82	0.84
Tributary 3B	Rosville Rd	1360	500-Year	114.86	156.00	157.57	157.57	157.91	0.012634	5.25	41.00	69.97	0.85
Tributary 3B	Rosville Rd	1315	2-Year	23.29	151.80	154.42	152.94	154.52	0.003657	2.62	8.89	3.40	0.29
Tributary 3B	Rosville Rd	1315	10-Year	46.43	151.80	155.52	153.60	155.67	0.004059	3.21	18.40	31.37	0.29
Tributary 3B	Rosville Rd	1315	25-Year	63.28	151.80	155.78	154.00	155.94	0.004548	3.55	27.98	47.74	0.31
Tributary 3B	Rosville Rd	1315	50-Year	73.29	151.80	155.90	154.24	156.05	0.004269	3.51	35.80	54.33	0.31
Tributary 3B	Rosville Rd	1315	100-Year	84.98	151.80	156.05	154.49	156.18	0.003804	3.39	44.69	60.95	0.29
Tributary 3B	Rosville Rd	1315	500-Year	114.86	151.80	156.09	155.89	156.30	0.006239	4.37	47.01	61.78	0.37
Tributary 3B	Rosville Rd	1185	2-Year	23.29	151.70	152.83	152.83	153.40	0.033986	6.05	3.85	3.40	1.00
Tributary 3B	Rosville Rd	1185	10-Year	46.43	151.70	153.50	153.50	154.39	0.038320	7.60	6.11	3.40	1.00
Tributary 3B	Rosville Rd	1185	25-Year	63.28	151.70	154.37	154.37	154.88	0.016852	6.10	16.66	23.28	0.66
Tributary 3B	Rosville Rd	1185	50-Year	73.29	151.70	154.52	154.52	155.03	0.016591	6.28	20.31	25.21	0.66
Tributary 3B	Rosville Rd	1185	100-Year	84.98	151.70	154.60	154.60	155.19	0.019081	6.86	22.29	26.27	0.71
Tributary 3B	Rosville Rd	1185	500-Year	114.86	151.70	155.20	155.20	155.41	0.007657	4.92	52.96	82.23	0.46
Tributary 3B	Rosville Rd	1135	2-Year	23.29	148.60	149.50	149.50	149.84	0.022697	4.64	5.02	7.63	1.01
Tributary 3B	Rosville Rd	1135	10-Year	46.43	148.60	149.92	149.92	150.37	0.020745	5.42	8.57	9.52	1.01
Tributary 3B	Rosville Rd	1135	25-Year	63.28	148.60	150.13	150.13	150.67	0.019533	5.92	10.76	11.09	1.00
Tributary 3B	Rosville Rd	1135	50-Year	73.29	148.60	150.25	150.25	150.84	0.018487	6.17	12.13	12.21	0.99
Tributary 3B	Rosville Rd	1135	100-Year	84.98	148.60	150.39	150.39	151.02	0.017207	6.40	13.90	13.59	0.98
Tributary 3B	Rosville Rd	1135	500-Year	114.86	148.60	150.78	150.78	151.42	0.012482	6.49	22.57	34.81	0.87
Tributary 3B	Rosville Rd	1030	2-Year	23.29	144.60	145.97	145.97	146.35	0.022742	4.91	4.75	6.48	1.01
Tributary 3B	Rosville Rd	1030	10-Year	46.43	144.60	146.41	146.41	146.98	0.018857	6.05	8.00	8.41	0.99
Tributary 3B	Rosville Rd	1030	25-Year	63.28	144.60	146.68	146.68	147.35	0.016924	6.61	10.47	9.61	0.97
Tributary 3B	Rosville Rd	1030	50-Year	73.29	144.60	146.83	146.83	147.56	0.016368	6.92	11.87	10.23	0.97
Tributary 3B	Rosville Rd	1030	100-Year	84.98	144.60	147.00	147.00	147.78	0.015392	7.19	13.67	10.98	0.96
Tributary 3B	Rosville Rd	1030	500-Year	114.86	144.60	147.35	147.35	148.28	0.014523	7.91	17.78	11.98	0.96
Tributary 3B	Rosville Rd	1010	2-Year	23.29	141.00	143.07		143.15	0.002375	2.25	10.36	5.00	0.28
Tributary 3B	Rosville Rd	1010	10-Year	46.43	141.00	143.75		143.93	0.004137	3.38	13.87	5.97	0.36
Tributary 3B	Rosville Rd	1010	25-Year	63.28	141.00	144.11		144.36	0.005058	4.05	16.26	7.36	0.40
Tributary 3B	Rosville Rd	1010	50-Year	73.29	141.00	144.30		144.59	0.005535	4.41	17.71	8.09	0.43
Tributary 3B	Rosville Rd	1010	100-Year	84.98	141.00	144.50		144.85	0.006037	4.79	19.41	8.87	0.45
Tributary 3B	Rosville Rd	1010	500-Year	114.86	141.00	144.95		145.42	0.007093	5.63	23.81	10.62	0.50
Tributary 3B	Rosville Rd	985	2-Year	23.29	141.00	143.01		143.09	0.002592	2.32	10.03	5.00	0.29
Tributary 3B	Rosville Rd	985	10-Year	46.43	141.00	143.62		143.82	0.004847	3.54	13.14	5.53	0.39
Tributary 3B	Rosville Rd	985	25-Year	63.28	141.00	143.94		144.23	0.006118	4.29	15.12	6.91	0.44
Tributary 3B	Rosville Rd	985	50-Year	73.29	141.00	144.10		144.44	0.006823	4.70	16.30	7.61	0.47
Tributary 3B	Rosville Rd	985	100-Year	84.98	141.00	144.27		144.68	0.007621	5.15	17.64	8.34	0.50
Tributary 3B	Rosville Rd	985	500-Year	114.86	141.00	144.64		145.22	0.009481	6.16	21.03	9.95	0.57
Tributary 3B	Rosville Rd	965	2-Year	23.29	141.40	142.54	142.54	142.95	0.018223	5.22	5.16	7.86	0.97
Tributary 3B	Rosville Rd	965	10-Year	46.43	141.40	143.04	143.04	143.62	0.014862	6.34	9.86	10.66	0.94
Tributary 3B	Rosville Rd	965	25-Year	63.28	141.40	143.32	143.32	144.01	0.014258	7.00	12.97	11.66	0.95
Tributary 3B	Rosville Rd	965	50-Year	73.29	141.40	143.47	143.47	144.21	0.013956	7.33	14.77	12.20	0.95
Tributary 3B	Rosville Rd	965	100-Year	84.98	141.40	143.64	143.64	144.44	0.013547	7.66	16.89	12.81	0.95
Tributary 3B	Rosville Rd	965	500-Year	114.86	141.40	144.02	144.02	144.96	0.013088	8.45	22.02	14.41	0.96

Deadman Brook Tributaries Natural Conditions

HEC-RAS Plan: Natural (Continued)

River	Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
Tributary 3B	Rosville Rd	925	2-Year	23.29	139.20	140.20	140.20	140.60	0.019238	5.11	4.93	7.43	0.98
Tributary 3B	Rosville Rd	925	10-Year	46.43	139.20	140.69	140.69	141.27	0.015852	6.27	9.12	9.89	0.96
Tributary 3B	Rosville Rd	925	25-Year	63.28	139.20	140.96	140.96	141.66	0.015047	6.92	12.04	11.30	0.96
Tributary 3B	Rosville Rd	925	50-Year	73.29	139.20	141.12	141.12	141.86	0.014299	7.20	13.95	12.37	0.95
Tributary 3B	Rosville Rd	925	100-Year	84.98	139.20	141.30	141.30	142.09	0.013565	7.47	16.27	13.65	0.94
Tributary 3B	Rosville Rd	925	500-Year	114.86	139.20	141.70	141.70	142.59	0.012285	8.06	22.35	16.53	0.93
Tributary 3B	Rosville Rd	870	2-Year	23.29	134.30	135.91	135.07	136.00	0.003030	2.41	9.66	6.00	0.33
Tributary 3B	Rosville Rd	870	10-Year	46.43	134.30	136.35	135.53	136.57	0.006069	3.77	12.31	6.00	0.46
Tributary 3B	Rosville Rd	870	25-Year	63.28	134.30	136.59	135.82	136.92	0.008327	4.61	13.73	6.00	0.54
Tributary 3B	Rosville Rd	870	50-Year	73.29	134.30	136.73	135.97	137.12	0.009435	5.02	14.60	6.00	0.57
Tributary 3B	Rosville Rd	870	100-Year	84.98	134.30	136.91	136.14	137.37	0.010468	5.43	15.66	6.00	0.59
Tributary 3B	Rosville Rd	870	500-Year	114.86	134.30	137.14	136.55	137.85	0.015195	6.73	17.06	6.00	0.70
Tributary 3B	Rosville Rd	840	2-Year	23.29	134.20	135.82	134.98	135.91	0.002555	2.37	9.99	6.58	0.33
Tributary 3B	Rosville Rd	840	10-Year	46.43	134.20	136.15	135.43	136.38	0.005717	3.90	12.22	7.44	0.49
Tributary 3B	Rosville Rd	840	25-Year	63.28	134.20	136.26	135.73	136.64	0.008871	5.01	13.06	8.61	0.62
Tributary 3B	Rosville Rd	840	50-Year	73.29	134.20	136.32	135.88	136.80	0.010735	5.62	13.60	9.55	0.68
Tributary 3B	Rosville Rd	840	100-Year	84.98	134.20	136.32	136.04	136.96	0.014316	6.50	13.64	9.62	0.79
Tributary 3B	Rosville Rd	840	500-Year	114.86	134.20	136.74	136.74	137.40	0.012331	6.80	18.76	21.73	0.75
Tributary 3B	Rosville Rd	830	2-Year	23.29	134.40	135.54	135.54	135.84	0.013623	4.66	5.77	10.14	0.83
Tributary 3B	Rosville Rd	830	10-Year	46.43	134.40	135.92	135.92	136.29	0.011949	5.45	10.43	14.27	0.82
Tributary 3B	Rosville Rd	830	25-Year	63.28	134.40	136.12	136.12	136.54	0.011940	5.96	13.54	17.73	0.84
Tributary 3B	Rosville Rd	830	50-Year	73.29	134.40	136.31	136.31	136.66	0.009084	5.61	17.21	21.79	0.75
Tributary 3B	Rosville Rd	830	100-Year	84.98	134.40	136.38	136.38	136.76	0.009446	5.89	18.87	23.47	0.77
Tributary 3B	Rosville Rd	830	500-Year	114.86	134.40	136.56	136.56	137.02	0.010168	6.49	22.70	27.25	0.81
Tributary 3B	Rosville Rd	805	2-Year	23.29	132.00	133.66	132.94	133.81	0.005719	3.12	7.48	4.50	0.43
Tributary 3B	Rosville Rd	805	10-Year	46.43	132.00	134.52	133.49	134.78	0.007368	4.09	11.35	4.50	0.45
Tributary 3B	Rosville Rd	805	25-Year	63.28	132.00	134.76	133.83	135.16	0.010821	5.10	12.42	4.50	0.54
Tributary 3B	Rosville Rd	805	50-Year	73.29	132.00	134.46	134.01	135.14	0.019628	6.62	11.07	4.50	0.74
Tributary 3B	Rosville Rd	805	100-Year	84.98	132.00	134.45	134.23	135.37	0.026550	7.70	11.04	4.50	0.87
Tributary 3B	Rosville Rd	805	500-Year	114.86	132.00	134.73	134.73	136.09	0.036840	9.37	12.26	4.50	1.00
Tributary 3B	Rosville Rd	760	2-Year	23.29	131.90	132.89	132.84	133.31	0.025225	5.24	4.44	4.50	0.93
Tributary 3B	Rosville Rd	760	10-Year	46.43	131.90	133.39	133.39	134.13	0.030972	6.94	6.69	4.50	1.00
Tributary 3B	Rosville Rd	760	25-Year	63.28	131.90	134.01	134.01	134.55	0.016599	6.17	14.33	33.95	0.75
Tributary 3B	Rosville Rd	760	50-Year	73.29	131.90	134.22	134.22	134.47	0.008204	4.63	23.91	39.70	0.54
Tributary 3B	Rosville Rd	760	100-Year	84.98	131.90	134.28	134.28	134.54	0.008769	4.86	26.15	41.18	0.56
Tributary 3B	Rosville Rd	760	500-Year	114.86	131.90	134.41	134.41	134.71	0.009401	5.22	31.89	44.75	0.58
Tributary 3B	Rosville Rd	735	2-Year	23.29	131.40	132.22	132.22	132.63	0.026812	5.15	4.53	5.96	1.00
Tributary 3B	Rosville Rd	735	10-Year	46.43	131.40	132.89	132.89	133.12	0.008310	4.27	15.92	35.27	0.62
Tributary 3B	Rosville Rd	735	25-Year	63.28	131.40	133.04	133.04	133.25	0.007669	4.36	21.75	43.87	0.60
Tributary 3B	Rosville Rd	735	50-Year	73.29	131.40	133.09	133.09	133.32	0.007844	4.50	24.10	44.39	0.61
Tributary 3B	Rosville Rd	735	100-Year	84.98	131.40	133.14	133.14	133.39	0.008184	4.69	26.41	44.89	0.63
Tributary 3B	Rosville Rd	735	500-Year	114.86	131.40	133.25	133.25	133.55	0.009274	5.19	31.11	45.89	0.67
Tributary 3B	Rosville Rd	535	2-Year	23.29	129.60	130.53		130.59	0.004361	2.01	13.42	37.23	0.45
Tributary 3B	Rosville Rd	535	10-Year	46.43	129.60	130.75		130.84	0.004608	2.54	23.65	55.29	0.49
Tributary 3B	Rosville Rd	535	25-Year	63.28	129.60	130.87		130.96	0.004619	2.77	30.41	62.02	0.50
Tributary 3B	Rosville Rd	535	50-Year	73.29	129.60	130.92		131.03	0.004648	2.89	34.01	64.40	0.51
Tributary 3B	Rosville Rd	535	100-Year	84.98	129.60	130.99	130.80	131.10	0.004616	3.00	38.21	67.07	0.51
Tributary 3B	Rosville Rd	535	500-Year	114.86	129.60	131.12	130.90	131.25	0.004690	3.27	47.22	70.61	0.53
Tributary 3B	Rosville Rd	335	2-Year	23.29	128.40	129.24	129.24	129.38	0.008702	3.09	9.61	43.33	0.65
Tributary 3B	Rosville Rd	335	10-Year	46.43	128.40	129.42	129.40	129.58	0.009005	3.67	17.68	46.65	0.69
Tributary 3B	Rosville Rd	335	25-Year	63.28	128.40	129.52	129.50	129.69	0.008987	3.94	22.35	48.47	0.70
Tributary 3B	Rosville Rd	335	50-Year	73.29	128.40	129.57	129.54	129.75	0.008927	4.06	24.93	49.44	0.71
Tributary 3B	Rosville Rd	335	100-Year	84.98	128.40	129.62	129.59	129.82	0.009155	4.25	27.47	50.39	0.72
Tributary 3B	Rosville Rd	335	500-Year	114.86	128.40	129.76	129.70	129.98	0.008780	4.51	34.50	52.91	0.72
Tributary 3B	Rosville Rd	175	2-Year	23.29	126.20	126.97	126.97	127.17	0.024812	3.59	6.75	19.82	1.00
Tributary 3B	Rosville Rd	175	10-Year	46.43	126.20	127.20	127.20	127.49	0.019849	4.38	12.21	26.78	0.97
Tributary 3B	Rosville Rd	175	25-Year	63.28	126.20	127.35	127.35	127.69	0.018078	4.79	16.32	31.15	0.96
Tributary 3B	Rosville Rd	175	50-Year	73.29	126.20	127.42	127.42	127.79	0.017345	4.99	18.77	33.49	0.95
Tributary 3B	Rosville Rd	175	100-Year	84.98	126.20	127.51	127.51	127.90	0.015998	5.14	22.04	36.37	0.93
Tributary 3B	Rosville Rd	175	500-Year	114.86	126.20	127.71	127.71	128.16	0.014925	5.62	30.34	54.52	0.93
Tributary 3A	Roseville Rd	1115	2-Year	13.09	143.40	143.93	143.93	144.12	0.025443	3.49	3.75	10.05	1.01
Tributary 3A	Roseville Rd	1115	10-Year	27.94	143.40	144.18	144.18	144.47	0.021048	4.33	6.66	13.32	0.99
Tributary 3A	Roseville Rd	1115	25-Year	39.00	143.40	144.33	144.33	144.68	0.018996	4.78	8.82	15.40	0.98
Tributary 3A	Roseville Rd	1115	50-Year	45.59	143.40	144.41	144.41	144.80	0.018183	5.01	10.12	16.52	0.97
Tributary 3A	Roseville Rd	1115	100-Year	53.35	143.40	144.51	144.51	144.92	0.017317	5.24	11.68	17.77	0.96
Tributary 3A	Roseville Rd	1115	500-Year	73.57	143.40	144.72	144.72	145.21	0.015773	5.75	15.77	28.84	0.95
Tributary 3A	Roseville Rd	1100	2-Year	13.09	142.20	142.64	142.64	142.85	0.025445	3.64	3.60	8.84	1.01
Tributary 3A	Roseville Rd	1100	10-Year	27.94	142.20	142.92	142.92	143.24	0.022252	4.54	6.16	9.68	1.00
Tributary 3A	Roseville Rd	1100	25-Year	39.00	142.20	143.08	143.08	143.47	0.021285	5.00	7.80	10.18	1.01
Tributary 3A	Roseville Rd	1100	50-Year	45.59	142.20	143.17	143.17	143.60	0.020855	5.22	8.73	10.46	1.01
Tributary 3A	Roseville Rd	1100	100-Year	53.35	142.20	143.27	143.27	143.73	0.020328	5.45	9.79	10.76	1.01
Tributary 3A	Roseville Rd	1100	500-Year	73.57	142.20	143.51	143.51	144.05	0.019224	5.91	12.44	11.48	1.00

Deadman Brook Tributaries Natural Conditions

HEC-RAS Plan: Natural (Continued)

River	Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
Tributary 3A	Roseville Rd	1070	2-Year	13.09	141.00	141.48	141.48	141.66	0.025707	3.43	3.81	10.54	1.01
Tributary 3A	Roseville Rd	1070	10-Year	27.94	141.00	141.73	141.73	141.99	0.022732	4.08	6.84	13.24	1.00
Tributary 3A	Roseville Rd	1070	25-Year	39.00	141.00	141.87	141.87	142.18	0.021858	4.42	8.83	14.75	1.01
Tributary 3A	Roseville Rd	1070	50-Year	45.59	141.00	141.95	141.95	142.27	0.021343	4.57	9.98	15.55	1.01
Tributary 3A	Roseville Rd	1070	100-Year	53.35	141.00	142.02	142.02	142.38	0.021001	4.77	11.18	16.49	1.01
Tributary 3A	Roseville Rd	1070	500-Year	73.57	141.00	142.35	142.35	142.59	0.009427	4.13	21.21	51.50	0.72
Tributary 3A	Roseville Rd	1020	2-Year	13.09	138.40	139.06	139.06	139.29	0.024324	3.82	3.44	8.16	1.01
Tributary 3A	Roseville Rd	1020	10-Year	27.94	138.40	139.36	139.36	139.72	0.019481	4.82	6.21	10.32	0.98
Tributary 3A	Roseville Rd	1020	25-Year	39.00	138.40	139.55	139.55	139.98	0.017740	5.33	8.24	11.65	0.97
Tributary 3A	Roseville Rd	1020	50-Year	45.59	138.40	139.65	139.65	140.12	0.017003	5.58	9.44	12.37	0.97
Tributary 3A	Roseville Rd	1020	100-Year	53.35	138.40	139.76	139.76	140.27	0.016300	5.85	10.85	13.16	0.97
Tributary 3A	Roseville Rd	1020	500-Year	73.57	138.40	140.02	140.02	140.63	0.014938	6.43	14.53	15.06	0.96
Tributary 3A	Roseville Rd	820	2-Year	13.09	133.40	133.99	133.99	134.16	0.025873	3.34	3.92	11.31	1.00
Tributary 3A	Roseville Rd	820	10-Year	27.94	133.40	134.25	134.25	134.49	0.018123	4.01	8.08	25.21	0.92
Tributary 3A	Roseville Rd	820	25-Year	39.00	133.40	134.38	134.38	134.66	0.016875	4.42	11.55	27.62	0.91
Tributary 3A	Roseville Rd	820	50-Year	45.59	133.40	134.44	134.44	134.76	0.016420	4.63	13.50	29.25	0.92
Tributary 3A	Roseville Rd	820	100-Year	53.35	133.40	134.53	134.53	134.85	0.015616	4.82	15.94	31.38	0.91
Tributary 3A	Roseville Rd	820	500-Year	73.57	133.40	134.70	134.70	135.08	0.014684	5.28	21.85	35.32	0.91
Tributary 3A	Roseville Rd	680	2-Year	13.09	130.40	132.13		132.14	0.000332	0.99	16.05	16.36	0.14
Tributary 3A	Roseville Rd	680	10-Year	27.94	130.40	132.52		132.55	0.000598	1.56	23.09	19.82	0.20
Tributary 3A	Roseville Rd	680	25-Year	39.00	130.40	132.74		132.78	0.000745	1.87	27.58	21.74	0.23
Tributary 3A	Roseville Rd	680	50-Year	45.59	130.40	132.84		132.89	0.000829	2.04	29.92	22.68	0.24
Tributary 3A	Roseville Rd	680	100-Year	53.35	130.40	132.95		133.01	0.000926	2.22	32.45	23.65	0.26
Tributary 3A	Roseville Rd	680	500-Year	73.57	130.40	133.20		133.28	0.001158	2.66	38.64	26.94	0.29
Tributary 3A	Roseville Rd	525	2-Year	13.09	131.40	131.80	131.80	131.96	0.026244	3.22	4.07	12.63	1.00
Tributary 3A	Roseville Rd	525	10-Year	27.94	131.40	132.02	132.02	132.26	0.023397	3.90	7.17	15.57	1.00
Tributary 3A	Roseville Rd	525	25-Year	39.00	131.40	132.14	132.14	132.43	0.021217	4.32	9.12	17.07	0.99
Tributary 3A	Roseville Rd	525	50-Year	45.59	131.40	132.23	132.23	132.52	0.017892	4.36	11.08	30.67	0.93
Tributary 3A	Roseville Rd	525	100-Year	53.35	131.40	132.31	132.31	132.62	0.016132	4.47	13.68	32.18	0.90
Tributary 3A	Roseville Rd	525	500-Year	73.57	131.40	132.49	132.49	132.83	0.014097	4.81	19.81	39.10	0.88
Tributary 3A	Roseville Rd	505	2-Year	13.09	130.20	131.08		131.17	0.005891	2.41	5.44	8.16	0.52
Tributary 3A	Roseville Rd	505	10-Year	27.94	130.20	131.38		131.56	0.008896	3.46	8.07	9.50	0.66
Tributary 3A	Roseville Rd	505	25-Year	39.00	130.20	131.52		131.78	0.011122	4.11	9.48	10.15	0.75
Tributary 3A	Roseville Rd	505	50-Year	45.59	130.20	131.58		131.90	0.012733	4.51	10.11	10.42	0.81
Tributary 3A	Roseville Rd	505	100-Year	53.35	130.20	131.65	131.53	132.03	0.014563	4.94	10.79	10.71	0.87
Tributary 3A	Roseville Rd	505	500-Year	73.57	130.20	131.79	131.79	132.34	0.019204	5.97	12.33	11.34	1.01
Tributary 3A	Roseville Rd	480	2-Year	13.09	130.20	130.72	130.72	130.91	0.025453	3.48	3.76	10.11	1.01
Tributary 3A	Roseville Rd	480	10-Year	27.94	130.20	130.98	130.98	131.25	0.022645	4.11	6.80	13.03	1.00
Tributary 3A	Roseville Rd	480	25-Year	39.00	130.20	131.12	131.12	131.44	0.020474	4.53	8.70	14.89	0.99
Tributary 3A	Roseville Rd	480	50-Year	45.59	130.20	131.20	131.20	131.54	0.018970	4.70	9.92	16.00	0.97
Tributary 3A	Roseville Rd	480	100-Year	53.35	130.20	131.29	131.29	131.65	0.017628	4.89	11.41	18.09	0.95
Tributary 3A	Roseville Rd	480	500-Year	73.57	130.20	131.50	131.50	131.90	0.014534	5.18	15.80	23.20	0.90
Tributary 3A	Roseville Rd	435	2-Year	13.09	127.80	128.76		128.84	0.007050	2.22	5.89	11.72	0.55
Tributary 3A	Roseville Rd	435	10-Year	27.94	127.80	129.05		129.18	0.007705	2.83	9.87	14.83	0.61
Tributary 3A	Roseville Rd	435	25-Year	39.00	127.80	129.18		129.35	0.008321	3.31	11.84	15.37	0.65
Tributary 3A	Roseville Rd	435	50-Year	45.59	127.80	129.25		129.45	0.008635	3.56	12.90	15.66	0.67
Tributary 3A	Roseville Rd	435	100-Year	53.35	127.80	129.33		129.56	0.008829	3.81	14.14	15.99	0.69
Tributary 3A	Roseville Rd	435	500-Year	73.57	127.80	129.55		129.82	0.008314	4.24	17.71	16.90	0.69
Tributary 3A	Roseville Rd	325	2-Year	13.09	126.40	127.39	127.39	127.66	0.016965	4.38	3.42	7.27	0.89
Tributary 3A	Roseville Rd	325	10-Year	27.94	126.40	127.81	127.81	128.11	0.011873	4.93	7.88	15.08	0.80
Tributary 3A	Roseville Rd	325	25-Year	39.00	126.40	128.02	128.02	128.31	0.010236	5.09	11.43	19.06	0.76
Tributary 3A	Roseville Rd	325	50-Year	45.59	126.40	128.10	128.10	128.41	0.009850	5.21	13.16	19.97	0.76
Tributary 3A	Roseville Rd	325	100-Year	53.35	126.40	128.18	128.18	128.51	0.010028	5.44	14.80	20.80	0.77
Tributary 3A	Roseville Rd	325	500-Year	73.57	126.40	128.34	128.34	128.74	0.011412	6.18	18.05	22.34	0.83
Tributary 3A	Roseville Rd	275	2-Year	13.09	124.20	125.27	124.93	125.38	0.005977	2.62	4.99	6.28	0.52
Tributary 3A	Roseville Rd	275	10-Year	27.94	124.20	125.68	125.34	125.88	0.007955	3.58	7.80	7.53	0.62
Tributary 3A	Roseville Rd	275	25-Year	39.00	124.20	125.92	125.57	126.17	0.008717	4.05	9.64	8.24	0.66
Tributary 3A	Roseville Rd	275	50-Year	45.59	124.20	126.04	125.69	126.32	0.008973	4.28	10.66	8.65	0.67
Tributary 3A	Roseville Rd	275	100-Year	53.35	124.20	126.15	125.83	126.48	0.009264	4.57	11.71	9.13	0.69
Tributary 3A	Roseville Rd	275	500-Year	73.57	124.20	126.38	126.12	126.83	0.010934	5.39	13.85	10.05	0.77
Tributary 3A	Roseville Rd	215	2-Year	13.09	124.10	124.77	124.67	124.88	0.011805	2.67	4.90	11.79	0.70
Tributary 3A	Roseville Rd	215	10-Year	27.94	124.10	124.97	124.91	125.21	0.015640	3.88	7.21	14.52	0.86
Tributary 3A	Roseville Rd	215	25-Year	39.00	124.10	125.09	125.05	125.42	0.017833	4.57	8.54	15.43	0.94
Tributary 3A	Roseville Rd	215	50-Year	45.59	124.10	125.15	125.14	125.53	0.019087	4.94	9.23	15.80	0.98
Tributary 3A	Roseville Rd	215	100-Year	53.35	124.10	125.23	125.23	125.66	0.019671	5.28	10.10	16.26	1.01
Tributary 3A	Roseville Rd	215	500-Year	73.57	124.10	125.45	125.45	125.96	0.018155	5.78	12.73	17.64	1.00
Tributary 3A	Roseville Rd	170	2-Year	13.09	123.60	124.00	124.00	124.15	0.027945	3.15	4.16	14.00	1.02
Tributary 3A	Roseville Rd	170	10-Year	27.94	123.60	124.21	124.21	124.44	0.021668	3.94	7.31	16.71	0.98
Tributary 3A	Roseville Rd	170	25-Year	39.00	123.60	124.33	124.33	124.62	0.019685	4.35	9.49	18.35	0.97
Tributary 3A	Roseville Rd	170	50-Year	45.59	123.60	124.40	124.40	124.71	0.018998	4.57	10.72	19.22	0.97
Tributary 3A	Roseville Rd	170	100-Year	53.35	123.60	124.47	124.47	124.81	0.017941	4.76	12.24	20.23	0.96
Tributary 3A	Roseville Rd	170	500-Year	73.57	123.60	124.65	124.65	125.05	0.016421	5.22	15.97	22.53	0.95

Deadman Brook Tributaries Natural Conditions

HEC-RAS Plan: Natural (Continued)

River	Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
Tributary 3A	Roseville Rd	130	2-Year	13.09	119.80	122.52		122.52	0.000163	0.73	22.20	13.30	0.08
Tributary 3A	Roseville Rd	130	10-Year	27.94	119.80	123.29		123.30	0.000256	1.08	32.72	15.47	0.10
Tributary 3A	Roseville Rd	130	25-Year	39.00	119.80	123.62		123.64	0.000343	1.32	38.24	17.98	0.12
Tributary 3A	Roseville Rd	130	50-Year	45.59	119.80	123.70		123.73	0.000428	1.50	39.72	18.59	0.13
Tributary 3A	Roseville Rd	130	100-Year	53.35	119.80	123.71		123.75	0.000579	1.75	39.91	18.67	0.16
Tributary 3A	Roseville Rd	130	500-Year	73.57	119.80	124.02		124.07	0.000777	2.13	46.04	21.03	0.18
Tributary 3A	Roseville Rd	100	2-Year	13.09	119.80	122.51	120.49	122.52	0.000171	0.74	20.91	12.30	0.08
Tributary 3A	Roseville Rd	100	10-Year	27.94	119.80	123.28	120.96	123.29	0.000326	1.21	33.83	29.31	0.11
Tributary 3A	Roseville Rd	100	25-Year	39.00	119.80	123.61	121.24	123.63	0.000308	1.25	46.70	52.08	0.11
Tributary 3A	Roseville Rd	100	50-Year	45.59	119.80	123.69	121.63	123.71	0.000339	1.33	51.09	54.66	0.12
Tributary 3A	Roseville Rd	100	100-Year	53.35	119.80	123.70	121.72	123.73	0.000454	1.54	51.57	54.76	0.14
Tributary 3A	Roseville Rd	100	500-Year	73.57	119.80	124.02	121.94	124.05	0.000376	1.48	69.77	58.43	0.13
Tributary 3A	Roseville Rd	45	2-Year	13.09	121.20	122.50		122.51	0.000234	0.67	24.60	43.18	0.11
Tributary 3A	Roseville Rd	45	10-Year	27.94	121.20	123.28		123.28	0.000667	0.52	89.00	100.86	0.07
Tributary 3A	Roseville Rd	45	25-Year	39.00	121.20	123.61		123.62	0.000054	0.52	123.16	103.15	0.06
Tributary 3A	Roseville Rd	45	50-Year	45.59	121.20	123.70		123.70	0.000061	0.56	131.67	103.71	0.07
Tributary 3A	Roseville Rd	45	100-Year	53.35	121.20	123.71		123.71	0.000082	0.65	132.75	103.79	0.08
Tributary 3A	Roseville Rd	45	500-Year	73.57	121.20	124.03		124.03	0.000082	0.72	166.43	107.06	0.08
Tributary 3	Roseville Rd	1975	2-Year	54.09	120.00	122.47		122.48	0.000580	1.10	64.91	119.83	0.12
Tributary 3	Roseville Rd	1975	10-Year	107.80	120.00	123.27		123.28	0.000128	0.63	174.86	148.38	0.06
Tributary 3	Roseville Rd	1975	25-Year	142.90	120.00	123.60		123.61	0.000101	0.59	225.40	152.48	0.06
Tributary 3	Roseville Rd	1975	50-Year	170.10	120.00	123.69		123.69	0.000121	0.66	237.65	153.46	0.06
Tributary 3	Roseville Rd	1975	100-Year	197.16	120.00	123.69		123.70	0.000160	0.76	238.70	153.54	0.07
Tributary 3	Roseville Rd	1975	500-Year	266.39	120.00	124.01		124.02	0.000162	0.81	288.30	157.66	0.07
Tributary 3	Roseville Rd	1960	2-Year	54.09	118.80	122.35	121.31	122.45	0.002048	2.65	21.61	41.92	0.25
Tributary 3	Roseville Rd	1960	10-Year	107.80	118.80	123.06	122.06	123.25	0.002538	3.32	30.81	113.69	0.28
Tributary 3	Roseville Rd	1960	25-Year	142.90	118.80	123.30	122.30	123.58	0.003210	3.87	33.96	119.36	0.32
Tributary 3	Roseville Rd	1960	50-Year	170.10	118.80	123.67	122.47	123.69	0.000352	1.35	160.71	128.17	0.11
Tributary 3	Roseville Rd	1960	100-Year	197.16	118.80	123.67	122.64	123.70	0.000471	1.57	160.96	128.21	0.12
Tributary 3	Roseville Rd	1960	500-Year	266.39	118.80	123.99	123.04	124.02	0.000431	1.56	203.02	135.73	0.12
Tributary 3	Roseville Rd	1930	2-Year	54.09	118.70	121.66	120.86	122.24	0.020687	6.09	8.88	3.00	0.62
Tributary 3	Roseville Rd	1930	10-Year	107.80	118.70	123.10	122.52	123.14	0.001349	1.93	70.05	87.09	0.16
Tributary 3	Roseville Rd	1930	25-Year	142.90	118.70	123.42	122.63	123.45	0.000859	1.61	98.52	92.20	0.13
Tributary 3	Roseville Rd	1930	50-Year	170.10	118.70	123.64	122.73	123.67	0.000682	1.48	119.30	95.75	0.12
Tributary 3	Roseville Rd	1930	100-Year	197.16	118.70	123.63	122.79	123.67	0.000940	1.74	118.29	95.58	0.14
Tributary 3	Roseville Rd	1930	500-Year	266.39	118.70	123.94	123.01	123.99	0.000845	1.72	149.45	100.69	0.13
Tributary 3	Roseville Rd	1895	2-Year	54.09	116.80	122.02		122.04	0.000316	1.14	59.98	53.58	0.09
Tributary 3	Roseville Rd	1895	10-Year	107.80	116.80	123.11		123.12	0.000160	0.92	130.98	76.71	0.06
Tributary 3	Roseville Rd	1895	25-Year	142.90	116.80	123.42		123.43	0.000172	0.99	155.80	82.22	0.07
Tributary 3	Roseville Rd	1895	50-Year	170.10	116.80	123.64		123.66	0.000178	1.02	174.26	86.09	0.07
Tributary 3	Roseville Rd	1895	100-Year	197.16	116.80	123.63		123.65	0.000242	1.19	173.44	85.92	0.08
Tributary 3	Roseville Rd	1895	500-Year	266.39	116.80	123.95		123.97	0.000291	1.35	201.46	91.99	0.09
Tributary 3	Roseville Rd	1860	2-Year	54.09	119.30	121.27	121.03	121.93	0.023079	6.52	8.29	4.20	0.82
Tributary 3	Roseville Rd	1860	10-Year	107.80	119.30	122.54	122.54	123.05	0.013321	6.18	20.17	23.88	0.61
Tributary 3	Roseville Rd	1860	25-Year	142.90	119.30	122.77	122.77	123.36	0.014177	6.68	24.38	27.97	0.63
Tributary 3	Roseville Rd	1860	50-Year	170.10	119.30	122.92	122.92	123.57	0.014715	7.00	27.26	30.64	0.65
Tributary 3	Roseville Rd	1860	100-Year	197.16	119.30	123.06	123.06	123.57	0.012758	6.68	36.39	33.44	0.61
Tributary 3	Roseville Rd	1860	500-Year	266.39	119.30	123.36	123.36	123.89	0.011949	6.80	47.41	40.81	0.60
Tributary 3	Roseville Rd	1795	2-Year	54.09	119.20	121.16	120.44	121.36	0.003295	3.58	15.10	20.97	0.47
Tributary 3	Roseville Rd	1795	10-Year	107.80	119.20	121.68	121.08	121.83	0.002538	3.09	36.72	26.13	0.41
Tributary 3	Roseville Rd	1795	25-Year	142.90	119.20	121.91	121.20	122.11	0.002901	3.58	43.01	28.42	0.45
Tributary 3	Roseville Rd	1795	50-Year	170.10	119.20	122.06	121.25	122.29	0.003174	3.93	47.44	30.29	0.47
Tributary 3	Roseville Rd	1795	100-Year	197.16	119.20	122.21	121.40	122.48	0.003370	4.23	52.03	32.63	0.49
Tributary 3	Roseville Rd	1795	500-Year	266.39	119.20	122.49	121.75	122.86	0.004052	5.00	61.72	37.08	0.55
Tributary 3	Roseville Rd	1745	2-Year	54.09	119.80	120.96		121.09	0.007365	2.90	18.66	35.28	0.60
Tributary 3	Roseville Rd	1745	10-Year	107.80	119.80	121.59		121.68	0.002427	2.51	47.65	50.88	0.38
Tributary 3	Roseville Rd	1745	25-Year	142.90	119.80	121.86		121.95	0.002019	2.59	61.61	54.14	0.36
Tributary 3	Roseville Rd	1745	50-Year	170.10	119.80	122.03		122.13	0.001880	2.68	71.21	56.48	0.36
Tributary 3	Roseville Rd	1745	100-Year	197.16	119.80	122.20		122.30	0.001754	2.75	81.09	59.66	0.35
Tributary 3	Roseville Rd	1745	500-Year	266.39	119.80	122.53		122.65	0.001689	3.00	101.85	65.91	0.35
Tributary 3	Roseville Rd	1590	2-Year	54.09	118.60	120.79		120.82	0.000675	1.52	37.29	28.56	0.21
Tributary 3	Roseville Rd	1590	10-Year	107.80	118.60	121.41		121.47	0.000821	2.08	60.18	86.49	0.24
Tributary 3	Roseville Rd	1590	25-Year	142.90	118.60	121.70		121.76	0.000752	2.16	83.59	114.55	0.24
Tributary 3	Roseville Rd	1590	50-Year	170.10	118.60	121.90		121.95	0.000683	2.16	102.30	133.21	0.23
Tributary 3	Roseville Rd	1590	100-Year	197.16	118.60	122.08		122.14	0.000654	2.20	126.38	169.50	0.23
Tributary 3	Roseville Rd	1590	500-Year	266.39	118.60	122.47		122.51	0.000415	1.91	195.07	176.66	0.18
Tributary 3	Roseville Rd	1440	2-Year	54.09	118.20	120.74		120.75	0.000276	1.21	99.41	101.28	0.14
Tributary 3	Roseville Rd	1440	10-Year	107.80	118.20	121.37		121.39	0.000280	1.44	168.45	114.09	0.15
Tributary 3	Roseville Rd	1440	25-Year	142.90	118.20	121.66		121.68	0.000294	1.57	202.24	118.59	0.15
Tributary 3	Roseville Rd	1440	50-Year	170.10	118.20	121.86		121.88	0.000305	1.66	225.39	121.58	0.16
Tributary 3	Roseville Rd	1440	100-Year	197.16	118.20	122.02		122.05	0.000392	1.94	246.90	166.60	0.18
Tributary 3	Roseville Rd	1440	500-Year	266.39	118.20	122.43		122.45	0.000340	1.95	314.55	168.06	0.17

Deadman Brook Tributaries Natural Conditions

HEC-RAS Plan: Natural (Continued)

River	Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
Tributary 3	Roseville Rd	1315	2-Year	54.09	117.80	120.70		120.73	0.000685	1.72	44.58	47.38	0.18
Tributary 3	Roseville Rd	1315	10-Year	107.80	117.80	121.33		121.37	0.000617	1.87	77.45	56.15	0.18
Tributary 3	Roseville Rd	1315	25-Year	142.90	117.80	121.62		121.66	0.000634	1.99	93.99	59.90	0.18
Tributary 3	Roseville Rd	1315	50-Year	170.10	117.80	121.80		121.85	0.000651	2.08	105.51	62.37	0.18
Tributary 3	Roseville Rd	1315	100-Year	197.16	117.80	121.97		122.02	0.000670	2.17	116.05	64.56	0.19
Tributary 3	Roseville Rd	1315	500-Year	266.39	117.80	122.37		122.42	0.000855	2.61	162.10	121.23	0.22
Tributary 3	Roseville Rd	1240	2-Year	54.09	117.80	120.63		120.70	0.001355	2.39	32.42	30.37	0.25
Tributary 3	Roseville Rd	1240	10-Year	107.80	117.80	121.24		121.34	0.001601	2.96	54.56	40.67	0.28
Tributary 3	Roseville Rd	1240	25-Year	142.90	117.80	121.52		121.63	0.001701	3.21	66.21	43.90	0.29
Tributary 3	Roseville Rd	1240	50-Year	170.10	117.80	121.70		121.82	0.001771	3.38	74.37	46.03	0.30
Tributary 3	Roseville Rd	1240	100-Year	197.16	117.80	121.86		121.99	0.001843	3.54	81.83	47.89	0.31
Tributary 3	Roseville Rd	1240	500-Year	266.39	117.80	122.22		122.38	0.002357	4.23	101.27	66.03	0.36
Tributary 3	Roseville Rd	1190	2-Year	54.09	119.00	120.07	120.07	120.50	0.019656	5.22	10.42	13.55	0.99
Tributary 3	Roseville Rd	1190	10-Year	107.80	119.00	120.63	120.63	121.13	0.012610	5.83	20.96	24.39	0.86
Tributary 3	Roseville Rd	1190	25-Year	142.90	119.00	120.88	120.88	121.41	0.011294	6.16	27.73	29.31	0.84
Tributary 3	Roseville Rd	1190	50-Year	170.10	119.00	121.04	121.04	121.60	0.010878	6.42	32.58	32.34	0.84
Tributary 3	Roseville Rd	1190	100-Year	197.16	119.00	121.18	121.18	121.76	0.010522	6.64	37.35	35.00	0.83
Tributary 3	Roseville Rd	1190	500-Year	266.39	119.00	121.49	121.49	122.12	0.009834	7.08	49.19	40.85	0.83
Tributary 3	Roseville Rd	1030	2-Year	54.09	115.87	118.81	117.49	118.86	0.000785	1.85	30.46	21.66	0.23
Tributary 3	Roseville Rd	1030	10-Year	107.80	115.87	119.53	118.02	119.64	0.001087	2.67	44.23	27.21	0.29
Tributary 3	Roseville Rd	1030	25-Year	142.90	115.87	119.82	118.26	119.97	0.001345	3.18	50.31	29.01	0.32
Tributary 3	Roseville Rd	1030	50-Year	170.10	115.87	120.06	118.44	120.25	0.001471	3.50	55.83	35.80	0.34
Tributary 3	Roseville Rd	1030	100-Year	197.16	115.87	120.11	118.61	120.36	0.001882	4.00	57.22	39.73	0.39
Tributary 3	Roseville Rd	1030	500-Year	266.39	115.87	120.49	119.02	120.82	0.002272	4.72	70.89	56.62	0.43
Tributary 3	Roseville Rd	980	2-Year	54.09	115.00	118.81	116.53	118.83	0.000313	1.33	42.58	19.85	0.15
Tributary 3	Roseville Rd	980	10-Year	107.80	115.00	119.53	117.16	119.59	0.000545	1.96	58.35	23.91	0.20
Tributary 3	Roseville Rd	980	25-Year	142.90	115.00	119.83	117.48	119.90	0.000706	2.31	65.69	25.67	0.23
Tributary 3	Roseville Rd	980	50-Year	170.10	115.00	120.08	117.71	120.17	0.000782	2.53	72.39	29.16	0.24
Tributary 3	Roseville Rd	980	100-Year	197.16	115.00	120.13	117.91	120.25	0.000997	2.89	73.95	30.89	0.27
Tributary 3	Roseville Rd	980	500-Year	266.39	115.00	120.53	118.37	120.69	0.001212	3.42	88.61	43.20	0.31
Tributary 3	Roseville Rd	920	2-Year	54.09	114.10	118.74	116.08	118.80	0.000847	1.92	28.13	9.62	0.20
Tributary 3	Roseville Rd	920	10-Year	107.80	114.10	119.37	116.98	119.52	0.001821	3.10	38.42	24.59	0.30
Tributary 3	Roseville Rd	920	25-Year	142.90	114.10	119.59	117.44	119.81	0.002530	3.81	44.42	29.60	0.35
Tributary 3	Roseville Rd	920	50-Year	170.10	114.10	119.80	117.75	120.07	0.002884	4.22	51.09	34.33	0.38
Tributary 3	Roseville Rd	920	100-Year	197.16	114.10	119.74	118.04	120.12	0.004133	5.00	49.00	32.92	0.45
Tributary 3	Roseville Rd	920	500-Year	266.39	114.10	119.88	118.68	120.50	0.006534	6.44	53.80	36.07	0.57
Tributary 3	Roseville Rd	885	2-Year	54.09	115.63	118.73		118.77	0.000735	1.68	32.28	17.06	0.21
Tributary 3	Roseville Rd	885	10-Year	107.80	115.63	119.36		119.45	0.001259	2.45	44.04	22.75	0.29
Tributary 3	Roseville Rd	885	25-Year	142.90	115.63	119.59		119.72	0.001641	2.94	50.61	35.17	0.33
Tributary 3	Roseville Rd	885	50-Year	170.10	115.63	119.81		119.96	0.001759	3.19	59.58	45.32	0.35
Tributary 3	Roseville Rd	885	100-Year	197.16	115.63	119.74		119.96	0.002570	3.80	56.62	43.55	0.42
Tributary 3	Roseville Rd	885	500-Year	266.39	115.63	119.90		120.25	0.003825	4.78	63.93	45.64	0.52
Tributary 3	Roseville Rd	855	2-Year	54.09	117.20	118.43		118.69	0.010031	4.16	13.49	16.87	0.74
Tributary 3	Roseville Rd	855	10-Year	107.80	117.20	119.07	118.76	119.37	0.006136	4.55	27.70	39.47	0.63
Tributary 3	Roseville Rd	855	25-Year	142.90	117.20	119.44		119.65	0.003797	4.10	44.93	52.19	0.51
Tributary 3	Roseville Rd	855	50-Year	170.10	117.20	119.75		119.90	0.002371	3.58	62.62	59.07	0.42
Tributary 3	Roseville Rd	855	100-Year	197.16	117.20	119.51		119.85	0.005856	5.22	49.04	53.87	0.64
Tributary 3	Roseville Rd	855	500-Year	266.39	117.20	119.68	119.63	120.10	0.006997	6.01	58.20	57.43	0.71
Tributary 3	Roseville Rd	835	2-Year	54.09	115.20	118.41		118.55	0.003182	3.32	19.13	14.99	0.33
Tributary 3	Roseville Rd	835	10-Year	107.80	115.20	119.02		119.24	0.004673	4.51	35.89	53.51	0.41
Tributary 3	Roseville Rd	835	25-Year	142.90	115.20	119.46	118.71	119.56	0.002163	3.30	62.65	64.94	0.28
Tributary 3	Roseville Rd	835	50-Year	170.10	115.20	119.77	119.17	119.84	0.001343	2.73	83.55	67.70	0.22
Tributary 3	Roseville Rd	835	100-Year	197.16	115.20	119.56		119.71	0.003105	4.01	69.26	65.83	0.34
Tributary 3	Roseville Rd	835	500-Year	266.39	115.20	119.75		119.93	0.003482	4.37	81.98	67.49	0.36
Tributary 3	Roseville Rd	810	2-Year	54.09	115.20	118.28		118.46	0.004132	3.68	16.98	13.05	0.37
Tributary 3	Roseville Rd	810	10-Year	107.80	115.20	118.63		119.06	0.009332	5.94	22.57	20.18	0.56
Tributary 3	Roseville Rd	810	25-Year	142.90	115.20	118.64	118.64	119.38	0.016319	7.86	22.62	20.25	0.75
Tributary 3	Roseville Rd	810	50-Year	170.10	115.20	118.67	118.67	119.67	0.021793	9.14	23.32	21.12	0.86
Tributary 3	Roseville Rd	810	100-Year	197.16	115.20	119.21	119.20	119.57	0.008197	6.18	48.33	100.35	0.54
Tributary 3	Roseville Rd	810	500-Year	266.39	115.20	119.54	119.37	119.81	0.005987	5.56	69.75	129.54	0.47
Tributary 3	Roseville Rd	805	2-Year	54.09	116.80	118.01	118.01	118.40	0.018479	5.02	10.94	30.53	0.97
Tributary 3	Roseville Rd	805	10-Year	107.80	116.80	118.53	118.53	119.01	0.012455	5.71	20.47	48.93	0.87
Tributary 3	Roseville Rd	805	25-Year	142.90	116.80	118.93	118.93	119.28	0.007149	5.14	35.23	86.75	0.69
Tributary 3	Roseville Rd	805	50-Year	170.10	116.80	119.01	119.01	119.41	0.007937	5.58	39.33	110.57	0.73
Tributary 3	Roseville Rd	805	100-Year	197.16	116.80	119.12	119.12	119.52	0.007626	5.70	45.66	123.71	0.72
Tributary 3	Roseville Rd	805	500-Year	266.39	116.80	119.33	119.33	119.77	0.007775	6.17	58.55	147.82	0.74
Tributary 3	Roseville Rd	760	2-Year	54.09	116.00	117.75		117.82	0.001830	2.28	25.17	23.13	0.34
Tributary 3	Roseville Rd	760	10-Year	107.80	116.00	118.08		118.26	0.003283	3.51	33.44	59.88	0.47
Tributary 3	Roseville Rd	760	25-Year	142.90	116.00	118.23		118.48	0.004224	4.20	37.46	77.99	0.54
Tributary 3	Roseville Rd	760	50-Year	170.10	116.00	118.35		118.65	0.004697	4.62	40.95	103.59	0.57
Tributary 3	Roseville Rd	760	100-Year	197.16	116.00	118.45		118.80	0.005207	5.02	43.97	118.79	0.61
Tributary 3	Roseville Rd	760	500-Year	266.39	116.00	118.68	118.35	119.15	0.006272	5.90	51.30	138.35	0.68

Deadman Brook Tributaries Natural Conditions

HEC-RAS Plan: Natural (Continued)

River	Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
Tributary 3	Roseville Rd	740	2-Year	54.09	116.20	117.64	117.21	117.66	0.000845	1.35	46.85	67.27	0.22
Tributary 3	Roseville Rd	740	10-Year	107.80	116.20	117.98	117.39	118.01	0.001023	1.76	70.84	73.44	0.25
Tributary 3	Roseville Rd	740	25-Year	142.90	116.20	118.14	117.48	118.18	0.001109	1.97	82.82	75.15	0.27
Tributary 3	Roseville Rd	740	50-Year	170.10	116.20	118.29	117.55	118.34	0.001043	2.02	94.45	76.56	0.27
Tributary 3	Roseville Rd	740	100-Year	197.16	116.20	118.42	117.61	118.47	0.001034	2.11	104.15	77.72	0.27
Tributary 3	Roseville Rd	740	500-Year	266.39	116.20	118.71	117.75	118.78	0.001005	2.28	127.67	80.45	0.27
Tributary 3	Roseville Rd	715	2-Year	54.09	114.60	117.55	116.38	117.63	0.001861	2.46	25.38	34.43	0.25
Tributary 3	Roseville Rd	715	10-Year	107.80	114.60	117.72	117.33	117.94	0.005035	4.19	29.03	38.45	0.42
Tributary 3	Roseville Rd	715	25-Year	142.90	114.60	117.96	117.53	118.12	0.004069	3.96	46.16	44.34	0.38
Tributary 3	Roseville Rd	715	50-Year	170.10	114.60	118.11	117.68	118.28	0.004057	4.07	53.09	48.37	0.38
Tributary 3	Roseville Rd	715	100-Year	197.16	114.60	118.23	117.81	118.41	0.004202	4.23	58.87	51.58	0.39
Tributary 3	Roseville Rd	715	500-Year	266.39	114.60	118.52	118.02	118.72	0.004130	4.42	75.02	59.65	0.39
Tributary 3	Roseville Rd	680	2-Year	54.09	114.50	117.00	116.28	117.45	0.014141	5.41	9.99	32.34	0.60
Tributary 3	Roseville Rd	680	10-Year	107.80	114.50	117.68	117.77	117.77	0.003231	3.04	48.31	94.35	0.30
Tributary 3	Roseville Rd	680	25-Year	142.90	114.50	117.91	117.99	117.99	0.002500	2.80	65.27	108.66	0.27
Tributary 3	Roseville Rd	680	50-Year	170.10	114.50	118.07	118.15	118.15	0.002349	2.80	81.97	143.48	0.26
Tributary 3	Roseville Rd	680	100-Year	197.16	114.50	118.22	118.29	118.29	0.001809	2.52	103.61	145.61	0.23
Tributary 3	Roseville Rd	680	500-Year	266.39	114.50	118.56	118.61	118.61	0.001119	2.10	153.92	150.43	0.18
Tributary 3	Roseville Rd	640	2-Year	54.09	115.60	117.19	117.22	117.22	0.001007	1.57	71.19	111.59	0.25
Tributary 3	Roseville Rd	640	10-Year	107.80	115.60	117.65	117.68	117.68	0.001035	1.95	123.18	118.13	0.26
Tributary 3	Roseville Rd	640	25-Year	142.90	115.60	117.87	117.92	117.92	0.001070	2.16	150.52	121.42	0.27
Tributary 3	Roseville Rd	640	50-Year	170.10	115.60	118.03	118.08	118.08	0.001111	2.32	169.83	126.88	0.28
Tributary 3	Roseville Rd	640	100-Year	197.16	115.60	118.17	118.23	118.23	0.001140	2.45	187.97	129.92	0.29
Tributary 3	Roseville Rd	640	500-Year	266.39	115.60	118.50	118.56	118.56	0.001194	2.74	231.31	136.91	0.30
Tributary 3	Roseville Rd	590	2-Year	54.09	115.80	116.78	116.78	117.07	0.022136	4.30	12.58	22.27	1.01
Tributary 3	Roseville Rd	590	10-Year	107.80	115.80	117.14	117.14	117.52	0.018312	4.98	22.29	36.79	0.97
Tributary 3	Roseville Rd	590	25-Year	142.90	115.80	117.32	117.32	117.75	0.016042	5.33	29.98	46.95	0.94
Tributary 3	Roseville Rd	590	50-Year	170.10	115.80	117.44	117.44	117.91	0.014902	5.56	36.18	51.71	0.93
Tributary 3	Roseville Rd	590	100-Year	197.16	115.80	117.55	117.55	118.05	0.014181	5.78	42.09	54.22	0.92
Tributary 3	Roseville Rd	590	500-Year	266.39	115.80	117.79	117.79	118.38	0.013537	6.35	55.62	59.59	0.92
Tributary 3	Roseville Rd	550	2-Year	54.09	111.00	113.78	112.78	113.95	0.004322	3.37	16.04	8.68	0.44
Tributary 3	Roseville Rd	550	10-Year	107.80	111.00	114.54	113.58	114.88	0.006158	4.64	23.25	10.27	0.53
Tributary 3	Roseville Rd	550	25-Year	142.90	111.00	114.91	113.99	115.35	0.006898	5.31	26.89	11.04	0.57
Tributary 3	Roseville Rd	550	50-Year	170.10	111.00	115.16	114.27	115.68	0.007478	5.80	29.33	11.78	0.59
Tributary 3	Roseville Rd	550	100-Year	197.16	111.00	115.37	114.50	115.98	0.008183	6.28	31.37	12.50	0.62
Tributary 3	Roseville Rd	550	500-Year	266.39	111.00	115.52	115.01	116.54	0.012944	8.10	32.88	13.04	0.78
Tributary 3	Roseville Rd	430	2-Year	54.09	110.90	113.52	112.21	113.61	0.001819	2.38	25.66	21.33	0.28
Tributary 3	Roseville Rd	430	10-Year	107.80	110.90	114.12	112.81	114.32	0.003158	3.67	35.53	27.43	0.38
Tributary 3	Roseville Rd	430	25-Year	142.90	110.90	114.41	113.15	114.69	0.003939	4.36	40.80	30.35	0.43
Tributary 3	Roseville Rd	430	50-Year	170.10	110.90	114.60	113.39	114.94	0.004531	4.86	44.41	32.25	0.46
Tributary 3	Roseville Rd	430	100-Year	197.16	110.90	114.71	113.61	115.13	0.005401	5.42	46.64	33.38	0.51
Tributary 3	Roseville Rd	430	500-Year	266.39	110.90	115.19	114.12	115.53	0.004079	5.07	80.74	37.76	0.45
Tributary 3	Roseville Rd	380	2-Year	54.09	112.00	113.14	112.99	113.38	0.016938	3.91	14.46	19.94	0.74
Tributary 3	Roseville Rd	380	10-Year	107.80	112.00	113.42	113.42	113.94	0.025963	5.82	20.46	23.27	0.96
Tributary 3	Roseville Rd	380	25-Year	142.90	112.00	113.65	113.65	114.25	0.024213	6.34	26.06	26.00	0.95
Tributary 3	Roseville Rd	380	50-Year	170.10	112.00	113.81	113.81	114.47	0.022985	6.65	30.48	27.97	0.94
Tributary 3	Roseville Rd	380	100-Year	197.16	112.00	114.21	113.96	114.71	0.013393	5.92	42.56	32.31	0.75
Tributary 3	Roseville Rd	380	500-Year	266.39	112.00	114.51	114.31	115.15	0.014394	6.75	52.64	35.27	0.79
Tributary 3	Roseville Rd	195	2-Year	54.09	110.60	111.97	112.01	112.01	0.003941	1.68	32.25	44.22	0.35
Tributary 3	Roseville Rd	195	10-Year	107.80	110.60	112.42	112.49	112.49	0.003093	2.03	54.57	53.70	0.33
Tributary 3	Roseville Rd	195	25-Year	142.90	110.60	112.67	112.74	112.74	0.002835	2.21	68.37	58.64	0.33
Tributary 3	Roseville Rd	195	50-Year	170.10	110.60	112.85	112.93	112.93	0.002654	2.32	79.30	62.27	0.32
Tributary 3	Roseville Rd	195	100-Year	197.16	110.60	112.49	112.68	112.68	0.008533	3.51	58.28	55.07	0.56
Tributary 3	Roseville Rd	195	500-Year	266.39	110.60	112.69	112.94	112.94	0.009277	4.05	69.84	59.14	0.59
Tributary 3	Roseville Rd	145	2-Year	54.09	108.00	111.18	111.18	111.52	0.040544	6.05	16.07	56.92	0.60
Tributary 3	Roseville Rd	145	10-Year	107.80	108.00	111.60	111.60	112.04	0.052658	7.48	24.99	63.69	0.70
Tributary 3	Roseville Rd	145	25-Year	142.90	108.00	111.79	111.79	112.32	0.059584	8.24	29.15	66.84	0.75
Tributary 3	Roseville Rd	145	50-Year	170.10	108.00	111.92	111.92	112.51	0.064035	8.74	32.02	69.01	0.78
Tributary 3	Roseville Rd	145	100-Year	197.16	108.00	112.00	112.00	112.10	0.014622	4.23	84.69	70.78	0.37
Tributary 3	Roseville Rd	145	500-Year	266.39	108.00	112.00	112.00	112.18	0.026698	5.72	84.68	70.78	0.50
Tributary 3	Roseville Rd	110	2-Year	54.09	104.00	107.45	107.45	108.00	0.030309	7.09	13.72	13.33	0.67
Tributary 3	Roseville Rd	110	10-Year	107.80	104.00	108.16	108.16	108.79	0.034231	8.55	25.34	19.24	0.74
Tributary 3	Roseville Rd	110	25-Year	142.90	104.00	108.48	108.48	109.14	0.035865	9.19	31.94	22.04	0.77
Tributary 3	Roseville Rd	110	50-Year	170.10	104.00	108.66	108.66	109.38	0.038620	9.79	36.04	23.61	0.80
Tributary 3	Roseville Rd	110	100-Year	197.16	104.00	108.85	108.85	109.58	0.039411	10.15	40.62	25.25	0.81
Tributary 3	Roseville Rd	110	500-Year	266.39	104.00	109.24	109.24	110.04	0.042073	11.04	51.07	28.47	0.85
Tributary 3	Roseville Rd	60	2-Year	54.09	101.40	102.15	102.15	102.43	0.021403	4.25	12.82	23.75	0.99
Tributary 3	Roseville Rd	60	10-Year	107.80	101.40	102.48	102.48	102.92	0.018384	5.34	21.07	26.63	0.99
Tributary 3	Roseville Rd	60	25-Year	142.90	101.40	102.67	102.67	103.19	0.017110	5.84	26.13	28.26	0.99
Tributary 3	Roseville Rd	60	50-Year	170.10	101.40	102.80	102.80	103.38	0.016373	6.16	29.94	29.42	0.99
Tributary 3	Roseville Rd	60	100-Year	197.16	101.40	102.92	102.92	103.56	0.015717	6.45	33.69	30.52	0.98
Tributary 3	Roseville Rd	60	500-Year	266.39	101.40	103.32	103.21	103.98	0.011740	6.62	46.25	32.78	0.89

Deadman Brook Tributaries Natural Conditions

HEC-RAS Plan: Natural (Continued)

River	Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
Tributary 2	Deerwood Ln	250	2-Year	15.58	93.61	95.10	94.54	95.17	0.003831	2.11	7.66	7.69	0.36
Tributary 2	Deerwood Ln	250	10-Year	39.45	93.61	95.48	95.03	95.71	0.008636	3.88	11.68	14.85	0.57
Tributary 2	Deerwood Ln	250	25-Year	56.27	93.61	95.67	95.33	96.01	0.011298	4.81	14.82	19.27	0.66
Tributary 2	Deerwood Ln	250	50-Year	69.40	93.61	95.76	95.58	96.21	0.013927	5.53	16.68	21.48	0.74
Tributary 2	Deerwood Ln	250	100-Year	83.00	93.61	95.89	95.79	96.40	0.014927	6.01	19.67	24.60	0.78
Tributary 2	Deerwood Ln	250	500-Year	119.79	93.61	96.21	96.21	96.84	0.015819	6.88	28.93	32.71	0.82
Tributary 2	Deerwood Ln	200	2-Year	15.58	94.00	94.54	94.54	94.70	0.044418	3.16	4.93	35.18	1.00
Tributary 2	Deerwood Ln	200	10-Year	39.45	94.00	94.80	94.80	94.97	0.028489	3.56	16.24	54.36	0.88
Tributary 2	Deerwood Ln	200	25-Year	56.27	94.00	94.90	94.90	95.10	0.029731	4.01	21.47	56.34	0.92
Tributary 2	Deerwood Ln	200	50-Year	69.40	94.00	94.98	94.98	95.19	0.027025	4.12	26.31	58.12	0.89
Tributary 2	Deerwood Ln	200	100-Year	83.00	94.00	95.02	95.02	95.27	0.031590	4.59	28.39	58.82	0.97
Tributary 2	Deerwood Ln	200	500-Year	119.79	94.00	95.16	95.16	95.47	0.031809	5.22	36.95	61.44	1.00
Tributary 2	Deerwood Ln	50	2-Year	15.58	87.40	88.64		88.64	0.000068	0.30	51.97	46.27	0.05
Tributary 2	Deerwood Ln	50	10-Year	39.45	87.40	89.67		89.68	0.000052	0.40	102.34	50.72	0.05
Tributary 2	Deerwood Ln	50	25-Year	56.27	87.40	90.23		90.24	0.000050	0.46	131.46	53.93	0.05
Tributary 2	Deerwood Ln	50	50-Year	69.40	87.40	90.76		90.76	0.000042	0.47	161.01	58.63	0.05
Tributary 2	Deerwood Ln	50	100-Year	83.00	87.40	91.25		91.25	0.000037	0.49	190.97	64.37	0.04
Tributary 2	Deerwood Ln	50	500-Year	119.79	87.40	92.47		92.47	0.000029	0.52	281.46	84.00	0.04
Tributary 1	N Compo Rd	1920	2-Year	50.13	85.20	86.34		86.41	0.003161	2.28	24.49	41.83	0.42
Tributary 1	N Compo Rd	1920	10-Year	119.29	85.20	86.88		86.97	0.002386	2.69	54.54	68.52	0.39
Tributary 1	N Compo Rd	1920	25-Year	166.55	85.20	87.15		87.24	0.001908	2.69	79.21	111.75	0.36
Tributary 1	N Compo Rd	1920	50-Year	204.67	85.20	87.33		87.40	0.001588	2.61	99.68	121.36	0.33
Tributary 1	N Compo Rd	1920	100-Year	242.86	85.20	87.49		87.56	0.001350	2.54	120.01	130.21	0.31
Tributary 1	N Compo Rd	1920	500-Year	346.63	85.20	87.87		87.94	0.000980	2.43	173.92	151.20	0.27
Tributary 1	N Compo Rd	1870	2-Year	50.13	84.80	86.20		86.27	0.002632	2.42	24.35	34.62	0.39
Tributary 1	N Compo Rd	1870	10-Year	119.29	84.80	86.73		86.85	0.002740	3.16	46.40	48.56	0.43
Tributary 1	N Compo Rd	1870	25-Year	166.55	84.80	86.98		87.12	0.002804	3.50	59.30	55.11	0.44
Tributary 1	N Compo Rd	1870	50-Year	204.67	84.80	87.14		87.29	0.002858	3.72	68.32	57.62	0.45
Tributary 1	N Compo Rd	1870	100-Year	242.86	84.80	87.29		87.46	0.002856	3.90	77.15	59.73	0.46
Tributary 1	N Compo Rd	1870	500-Year	346.63	84.80	87.64		87.85	0.002844	4.29	99.29	64.72	0.47
Tributary 1	N Compo Rd	1715	2-Year	50.13	84.00	85.20	85.20	85.49	0.012941	4.61	13.55	26.37	0.84
Tributary 1	N Compo Rd	1715	10-Year	119.29	84.00	85.67	85.67	86.06	0.011555	5.71	29.44	40.83	0.85
Tributary 1	N Compo Rd	1715	25-Year	166.55	84.00	85.89	85.89	86.33	0.011090	6.18	39.42	47.73	0.85
Tributary 1	N Compo Rd	1715	50-Year	204.67	84.00	86.05	86.05	86.51	0.010685	6.44	47.16	51.90	0.85
Tributary 1	N Compo Rd	1715	100-Year	242.86	84.00	86.17	86.17	86.67	0.010780	6.75	53.45	54.11	0.86
Tributary 1	N Compo Rd	1715	500-Year	346.63	84.00	86.46	86.46	87.05	0.010726	7.40	69.91	59.51	0.88
Tributary 1	N Compo Rd	1530	2-Year	50.13	80.80	82.33		82.47	0.004336	3.12	17.64	21.36	0.50
Tributary 1	N Compo Rd	1530	10-Year	119.29	80.80	83.16		83.32	0.002739	3.52	41.36	38.83	0.44
Tributary 1	N Compo Rd	1530	25-Year	166.55	80.80	83.02	82.86	83.42	0.007494	5.56	36.17	36.66	0.71
Tributary 1	N Compo Rd	1530	50-Year	204.67	80.80	83.14	82.97	83.62	0.008424	6.14	40.66	38.54	0.76
Tributary 1	N Compo Rd	1530	100-Year	242.86	80.80	83.25	83.25	83.80	0.009274	6.66	44.77	40.18	0.81
Tributary 1	N Compo Rd	1530	500-Year	346.63	80.80	83.57	83.57	84.22	0.009388	7.37	58.62	45.28	0.83
Tributary 1	N Compo Rd	1475	2-Year	50.13	78.50	81.67	81.67	82.03	0.019450	5.22	10.78	15.98	0.52
Tributary 1	N Compo Rd	1475	10-Year	119.29	78.50	82.19	82.19	82.94	0.024435	6.19	17.35	29.93	0.57
Tributary 1	N Compo Rd	1475	25-Year	166.55	78.50	82.66	82.62	82.89	0.011968	4.69	44.05	70.30	0.41
Tributary 1	N Compo Rd	1475	50-Year	204.67	78.50	82.70	82.70	83.00	0.014591	5.21	47.18	71.38	0.45
Tributary 1	N Compo Rd	1475	100-Year	242.86	78.50	82.77	82.77	83.11	0.014960	5.33	52.22	73.08	0.45
Tributary 1	N Compo Rd	1475	500-Year	346.63	78.50	82.96	82.96	83.38	0.014096	5.33	66.71	77.68	0.44
Tributary 1	N Compo Rd	1430	2-Year	50.13	78.40	80.51	80.51	80.90	0.020854	5.26	9.99	12.31	0.64
Tributary 1	N Compo Rd	1430	10-Year	119.29	78.40	81.16	81.16	81.76	0.017828	5.48	19.30	43.62	0.58
Tributary 1	N Compo Rd	1430	25-Year	166.55	78.40	81.58	81.58	82.16	0.016259	5.76	27.43	65.62	0.57
Tributary 1	N Compo Rd	1430	50-Year	204.67	78.40	81.89	81.89	82.15	0.012945	5.46	51.47	83.88	0.52
Tributary 1	N Compo Rd	1430	100-Year	242.86	78.40	81.94	81.94	82.25	0.013779	5.70	56.30	84.41	0.53
Tributary 1	N Compo Rd	1430	500-Year	346.63	78.40	82.10	82.10	82.49	0.014510	6.02	69.81	87.16	0.55
Tributary 1	N Compo Rd	1360	2-Year	50.13	76.80	78.10	78.10	78.38	0.012072	4.74	13.00	23.80	0.82
Tributary 1	N Compo Rd	1360	10-Year	119.29	76.80	78.56	78.56	78.93	0.011135	5.81	26.62	35.51	0.84
Tributary 1	N Compo Rd	1360	25-Year	166.55	76.80	78.76	78.76	79.19	0.011123	6.33	34.53	40.79	0.85
Tributary 1	N Compo Rd	1360	50-Year	204.67	76.80	78.91	78.91	79.37	0.010812	6.60	40.94	44.63	0.85
Tributary 1	N Compo Rd	1360	100-Year	242.86	76.80	79.05	79.05	79.53	0.010490	6.81	47.10	47.43	0.85
Tributary 1	N Compo Rd	1360	500-Year	346.63	76.80	79.32	79.32	79.89	0.010444	7.41	60.73	51.05	0.87
Tributary 1	N Compo Rd	1320	2-Year	50.13	74.00	75.65		75.84	0.005177	3.49	14.35	10.38	0.52
Tributary 1	N Compo Rd	1320	10-Year	119.29	74.00	76.68	75.88	76.90	0.003577	4.05	34.75	31.92	0.47
Tributary 1	N Compo Rd	1320	25-Year	166.55	74.00	77.06		77.29	0.003205	4.24	48.56	39.39	0.46
Tributary 1	N Compo Rd	1320	50-Year	204.67	74.00	77.31		77.54	0.002967	4.33	58.67	41.48	0.45
Tributary 1	N Compo Rd	1320	100-Year	242.86	74.00	77.52		77.75	0.002885	4.47	67.39	43.20	0.44
Tributary 1	N Compo Rd	1320	500-Year	346.63	74.00	77.95		78.23	0.002919	4.90	87.05	46.84	0.46
Tributary 1	N Compo Rd	1300	2-Year	50.13	74.00	75.34		75.65	0.010545	4.47	11.21	9.69	0.73
Tributary 1	N Compo Rd	1300	10-Year	119.29	74.00	75.86	75.86	76.67	0.019420	7.22	16.53	10.73	1.02
Tributary 1	N Compo Rd	1300	25-Year	166.55	74.00	76.49	76.49	77.12	0.010585	6.58	28.38	25.13	0.79
Tributary 1	N Compo Rd	1300	50-Year	204.67	74.00	76.73	76.73	77.38	0.009829	6.81	34.95	29.07	0.78
Tributary 1	N Compo Rd	1300	100-Year	242.86	74.00	76.94	76.94	77.60	0.009251	6.99	41.42	32.49	0.77
Tributary 1	N Compo Rd	1300	500-Year	346.63	74.00	77.40	77.40	78.08	0.008275	7.38	58.09	45.85	0.75

Deadman Brook Tributaries Natural Conditions

HEC-RAS Plan: Natural (Continued)

River	Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
Tributary 1	N Compo Rd	1250	2-Year	50.13	73.60	74.72	74.72	75.06	0.014320	4.78	12.85	28.48	0.88
Tributary 1	N Compo Rd	1250	10-Year	119.29	73.60	75.27	75.27	75.74	0.012299	6.05	31.28	37.49	0.88
Tributary 1	N Compo Rd	1250	25-Year	166.55	73.60	75.52	75.52	76.08	0.012540	6.78	41.06	40.77	0.91
Tributary 1	N Compo Rd	1250	50-Year	204.67	73.60	75.69	75.69	76.32	0.012623	7.26	48.51	43.11	0.93
Tributary 1	N Compo Rd	1250	100-Year	242.86	73.60	75.87	75.87	76.53	0.012263	7.60	56.43	45.46	0.93
Tributary 1	N Compo Rd	1250	500-Year	346.63	73.60	76.26	76.26	77.07	0.012456	8.60	75.64	53.09	0.96
Tributary 1	N Compo Rd	1110	2-Year	50.13	70.40	71.21	71.21	71.46	0.019126	4.06	14.31	37.84	0.94
Tributary 1	N Compo Rd	1110	10-Year	119.29	70.40	71.60	71.60	71.99	0.016357	5.30	32.79	55.07	0.95
Tributary 1	N Compo Rd	1110	25-Year	166.55	70.40	71.84	71.84	72.27	0.013916	5.66	48.42	74.80	0.91
Tributary 1	N Compo Rd	1110	50-Year	204.67	70.40	72.00	72.00	72.45	0.012844	5.91	61.14	84.39	0.89
Tributary 1	N Compo Rd	1110	100-Year	242.86	70.40	72.12	72.12	72.61	0.012834	6.25	71.45	87.99	0.90
Tributary 1	N Compo Rd	1110	500-Year	346.63	70.40	72.40	72.40	72.98	0.012855	7.02	97.30	96.32	0.93
Tributary 1	N Compo Rd	1065	2-Year	50.13	66.93	68.53	68.53	69.06	0.020692	5.82	8.61	8.22	1.00
Tributary 1	N Compo Rd	1065	10-Year	119.29	66.93	69.44	69.44	70.17	0.015095	6.89	18.95	31.41	0.92
Tributary 1	N Compo Rd	1065	25-Year	166.55	66.93	69.92	69.92	70.58	0.010865	6.87	38.03	42.34	0.82
Tributary 1	N Compo Rd	1065	50-Year	204.67	66.93	70.17	70.17	70.87	0.010410	7.23	49.69	51.34	0.81
Tributary 1	N Compo Rd	1065	100-Year	242.86	66.93	70.40	70.40	71.11	0.009809	7.45	62.61	60.25	0.80
Tributary 1	N Compo Rd	1065	500-Year	346.63	66.93	70.87	70.87	71.62	0.009299	8.08	95.49	78.50	0.80
Tributary 1	N Compo Rd	1025	2-Year	50.13	65.25	66.64	66.64	67.08	0.020619	5.34	9.38	11.64	1.01
Tributary 1	N Compo Rd	1025	10-Year	119.29	65.25	67.46	67.33	67.97	0.013090	5.74	20.85	15.39	0.85
Tributary 1	N Compo Rd	1025	25-Year	166.55	65.25	67.65	67.65	68.42	0.016830	7.03	23.86	15.87	0.98
Tributary 1	N Compo Rd	1025	50-Year	204.67	65.25	68.31	68.31	68.59	0.005116	4.75	59.91	96.06	0.56
Tributary 1	N Compo Rd	1025	100-Year	242.86	65.25	68.39	68.39	68.69	0.005507	5.03	67.77	98.53	0.58
Tributary 1	N Compo Rd	1025	500-Year	346.63	65.25	68.57	68.57	68.91	0.006197	5.58	86.57	104.20	0.62
Tributary 1	N Compo Rd	990	2-Year	50.13	64.20	65.75	65.75	66.21	0.014467	5.79	9.84	19.47	0.82
Tributary 1	N Compo Rd	990	10-Year	119.29	64.20	66.15	66.15	67.30	0.028795	9.49	14.69	38.67	1.20
Tributary 1	N Compo Rd	990	25-Year	166.55	64.20	66.82	66.82	67.40	0.010897	7.11	28.77	53.16	0.77
Tributary 1	N Compo Rd	990	50-Year	204.67	64.20	67.00	67.00	67.65	0.011148	7.52	32.86	54.85	0.79
Tributary 1	N Compo Rd	990	100-Year	242.86	64.20	67.17	67.17	67.89	0.011201	7.83	36.85	58.06	0.80
Tributary 1	N Compo Rd	990	500-Year	346.63	64.20	67.40	67.40	67.65	0.004197	5.04	87.82	62.55	0.50
Tributary 1	N Compo Rd	955	2-Year	50.13	64.20	65.12	65.12	65.38	0.017911	4.23	12.41	32.30	0.92
Tributary 1	N Compo Rd	955	10-Year	119.29	64.20	65.52	65.52	65.99	0.016621	5.63	21.94	35.50	0.96
Tributary 1	N Compo Rd	955	25-Year	166.55	64.20	65.61	65.61	66.04	0.014799	5.60	32.00	36.18	0.92
Tributary 1	N Compo Rd	955	50-Year	204.67	64.20	65.74	65.74	66.23	0.014442	5.95	36.89	37.23	0.93
Tributary 1	N Compo Rd	955	100-Year	242.86	64.20	65.87	65.87	66.41	0.014107	6.26	41.57	38.20	0.93
Tributary 1	N Compo Rd	955	500-Year	346.63	64.20	66.26	66.26	66.83	0.012265	6.89	60.52	56.18	0.90
Tributary 1	N Compo Rd	910	2-Year	50.13	62.80	63.92	63.92	64.23	0.013960	4.66	11.99	21.98	0.86
Tributary 1	N Compo Rd	910	10-Year	119.29	62.80	64.41	64.41	64.80	0.011417	5.62	25.64	32.55	0.84
Tributary 1	N Compo Rd	910	25-Year	166.55	62.80	64.63	64.63	65.08	0.010974	6.09	33.46	36.68	0.84
Tributary 1	N Compo Rd	910	50-Year	204.67	62.80	64.78	64.78	65.27	0.011059	6.47	38.94	39.32	0.86
Tributary 1	N Compo Rd	910	100-Year	242.86	62.80	64.91	64.91	65.45	0.010862	6.75	44.55	41.86	0.86
Tributary 1	N Compo Rd	910	500-Year	346.63	62.80	65.25	65.24	65.85	0.010247	7.31	60.29	51.27	0.86
Tributary 1	N Compo Rd	830	2-Year	50.13	60.40	61.69	61.69	62.10	0.016579	5.10	10.04	14.74	0.94
Tributary 1	N Compo Rd	830	10-Year	119.29	60.40	62.31	62.31	62.99	0.014478	6.72	18.34	26.31	0.95
Tributary 1	N Compo Rd	830	25-Year	166.55	60.40	62.65	62.65	63.49	0.013880	7.49	22.80	32.53	0.96
Tributary 1	N Compo Rd	830	50-Year	204.67	60.40	62.90	62.90	63.86	0.013377	7.99	26.14	37.18	0.97
Tributary 1	N Compo Rd	830	100-Year	242.86	60.40	63.13	63.13	64.20	0.012947	8.43	29.28	41.55	0.97
Tributary 1	N Compo Rd	830	500-Year	346.63	60.40	63.70	63.70	65.07	0.012240	9.47	36.90	87.29	0.98
Tributary 1	N Compo Rd	790	2-Year	50.13	58.92	61.10	61.10	61.23	0.010174	4.27	28.72	34.48	0.59
Tributary 1	N Compo Rd	790	10-Year	119.29	58.92	61.60	61.32	61.80	0.015320	5.85	46.24	36.30	0.71
Tributary 1	N Compo Rd	790	25-Year	166.55	58.92	62.05	61.53	62.23	0.012179	5.64	63.18	37.97	0.63
Tributary 1	N Compo Rd	790	50-Year	204.67	58.92	62.40	61.68	62.57	0.010578	5.51	76.47	39.23	0.58
Tributary 1	N Compo Rd	790	100-Year	242.86	58.92	62.71	61.82	62.88	0.009638	5.46	88.84	40.37	0.55
Tributary 1	N Compo Rd	790	500-Year	346.63	58.92	63.44	62.14	63.62	0.008179	5.72	120.13	46.18	0.52
Tributary 1	N Compo Rd	735	2-Year	50.13	58.40	59.58	59.58	60.03	0.017036	5.46	10.58	14.70	0.97
Tributary 1	N Compo Rd	735	10-Year	119.29	58.40	60.31	60.31	61.00	0.013488	7.01	23.62	20.48	0.94
Tributary 1	N Compo Rd	735	25-Year	166.55	58.40	60.67	60.67	61.51	0.013045	7.82	31.37	22.46	0.96
Tributary 1	N Compo Rd	735	50-Year	204.67	58.40	60.91	60.91	61.87	0.013177	8.46	36.90	23.77	0.98
Tributary 1	N Compo Rd	735	100-Year	242.86	58.40	61.16	61.16	62.21	0.012675	8.89	43.20	25.74	0.98
Tributary 1	N Compo Rd	735	500-Year	346.63	58.40	61.79	61.79	63.01	0.011456	9.78	61.01	30.87	0.96
Tributary 1	N Compo Rd	550	2-Year	50.13	46.00	47.31	47.31	47.76	0.016675	5.42	10.60	15.72	0.95
Tributary 1	N Compo Rd	550	10-Year	119.29	46.00	48.06	48.06	48.67	0.012077	6.66	26.66	26.83	0.88
Tributary 1	N Compo Rd	550	25-Year	166.55	46.00	48.39	48.39	49.10	0.011892	7.41	35.82	29.13	0.90
Tributary 1	N Compo Rd	550	50-Year	204.67	46.00	48.61	48.61	49.41	0.012003	7.96	42.43	30.69	0.92
Tributary 1	N Compo Rd	550	100-Year	242.86	46.00	48.82	48.82	49.69	0.012010	8.43	48.90	32.14	0.94
Tributary 1	N Compo Rd	550	500-Year	346.63	46.00	49.34	49.34	50.38	0.011710	9.44	67.43	38.96	0.95
Tributary 1	N Compo Rd	500	2-Year	50.13	43.40	45.32	45.32	45.75	0.013675	5.61	15.10	25.61	0.71
Tributary 1	N Compo Rd	500	10-Year	119.29	43.40	46.03	46.03	46.52	0.014133	7.03	37.88	38.62	0.76
Tributary 1	N Compo Rd	500	25-Year	166.55	43.40	46.32	46.32	46.87	0.015294	7.83	49.37	42.38	0.81
Tributary 1	N Compo Rd	500	50-Year	204.67	43.40	46.51	46.51	47.10	0.016111	8.39	57.70	44.91	0.84
Tributary 1	N Compo Rd	500	100-Year	242.86	43.40	46.66	46.66	47.31	0.017285	8.97	64.76	46.94	0.88
Tributary 1	N Compo Rd	500	500-Year	346.63	43.40	46.98	46.98	47.80	0.020777	10.48	80.68	51.24	0.98

Deadman Brook Tributaries Natural Conditions

HEC-RAS Plan: Natural (Continued)

River	Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
Tributary 1	N Compo Rd	475	2-Year	50.13	43.40	44.78	44.78	45.22	0.016149	5.42	11.76	24.69	0.81
Tributary 1	N Compo Rd	475	10-Year	119.29	43.40	45.49	45.49	45.97	0.013118	6.44	37.26	45.31	0.79
Tributary 1	N Compo Rd	475	25-Year	166.55	43.40	45.78	45.78	46.30	0.013305	7.07	51.30	52.54	0.81
Tributary 1	N Compo Rd	475	50-Year	204.67	43.40	45.99	45.99	46.52	0.012918	7.38	63.09	57.92	0.81
Tributary 1	N Compo Rd	475	100-Year	242.86	43.40	46.15	46.15	46.70	0.013171	7.75	72.43	59.99	0.82
Tributary 1	N Compo Rd	475	500-Year	346.63	43.40	46.46	46.46	47.13	0.015058	8.91	91.83	63.81	0.90
Tributary 1	N Compo Rd	425	2-Year	50.13	43.40	44.25	44.25	44.42	0.011747	3.41	15.22	48.00	0.75
Tributary 1	N Compo Rd	425	10-Year	119.29	43.40	44.50	44.50	44.80	0.009208	3.78	28.20	52.93	0.70
Tributary 1	N Compo Rd	425	25-Year	166.55	43.40	44.66	44.66	45.02	0.007523	3.80	36.62	55.24	0.65
Tributary 1	N Compo Rd	425	50-Year	204.67	43.40	44.77	44.77	45.18	0.006894	3.88	42.69	56.84	0.63
Tributary 1	N Compo Rd	425	100-Year	242.86	43.40	44.87	44.87	45.32	0.006330	3.94	48.77	58.40	0.62
Tributary 1	N Compo Rd	425	500-Year	346.63	43.40	45.12	45.12	45.68	0.005550	4.16	63.72	61.39	0.59
Tributary 1	N Compo Rd	230	2-Year	50.13	31.20	31.78	31.78	32.00	0.023258	3.83	13.09	28.74	1.00
Tributary 1	N Compo Rd	230	10-Year	119.29	31.20	32.13	32.13	32.53	0.018951	5.06	24.20	33.31	0.99
Tributary 1	N Compo Rd	230	25-Year	166.55	31.20	32.33	32.33	32.82	0.017554	5.64	31.15	36.89	0.99
Tributary 1	N Compo Rd	230	50-Year	204.67	31.20	32.49	32.49	33.04	0.016256	5.98	37.44	45.86	0.98
Tributary 1	N Compo Rd	230	100-Year	242.86	31.20	32.66	32.66	33.23	0.014260	6.13	46.29	57.62	0.94
Tributary 1	N Compo Rd	230	500-Year	346.63	31.20	33.00	33.00	33.66	0.012517	6.69	68.36	69.16	0.91
Tributary 1	N Compo Rd	165	2-Year	50.13	27.60	28.73	28.73	29.14	0.016533	5.22	11.47	18.94	0.94
Tributary 1	N Compo Rd	165	10-Year	119.29	27.60	29.42	29.42	29.99	0.012310	6.49	30.20	36.87	0.89
Tributary 1	N Compo Rd	165	25-Year	166.55	27.60	29.76	29.76	30.39	0.011319	7.05	44.28	46.86	0.88
Tributary 1	N Compo Rd	165	50-Year	204.67	27.60	29.97	29.97	30.66	0.011137	7.48	54.97	53.21	0.89
Tributary 1	N Compo Rd	165	100-Year	242.86	27.60	30.24	30.24	30.88	0.009437	7.44	71.01	61.95	0.84
Tributary 1	N Compo Rd	165	500-Year	346.63	27.60	30.62	30.62	31.37	0.009905	8.39	95.31	66.02	0.88

Appendix E – Recommended Model HEC-RAS Output

- Deadman Brook Output Table for All Storm Events
- Deadman Brook Tributaries Output Table for All Storm Events

Deadman Brook Recommended Model

HEC-RAS Plan: Proposed

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
US Route 1-DS09	23460	2-Year	19.78	224.20	226.62		226.62	0.000000	0.04	696.42	444.78	0.00
US Route 1-DS09	23460	10-Year	44.12	224.20	226.76		226.76	0.000002	0.08	759.13	449.43	0.01
US Route 1-DS09	23460	25-Year	60.58	224.20	226.86		226.86	0.000003	0.11	800.79	452.50	0.01
US Route 1-DS09	23460	50-Year	73.72	224.20	226.88		226.88	0.000004	0.13	812.01	453.32	0.01
US Route 1-DS09	23460	100-Year	86.82	224.20	226.93		226.93	0.000006	0.15	834.60	457.36	0.02
US Route 1-DS09	23460	500-Year	122.88	224.20	227.04		227.04	0.000010	0.20	883.06	466.05	0.02
US Route 1-DS09	23370	2-Year	19.78	224.40	226.62	225.08	226.62	0.000003	0.09	390.61	282.73	0.01
US Route 1-DS09	23370	10-Year	44.12	224.40	226.76	225.24	226.76	0.000012	0.19	430.44	287.20	0.02
US Route 1-DS09	23370	25-Year	60.58	224.40	226.85	225.31	226.86	0.000020	0.24	456.98	290.14	0.03
US Route 1-DS09	23370	50-Year	73.72	224.40	226.88	225.36	226.88	0.000028	0.29	464.04	290.92	0.03
US Route 1-DS09	23370	100-Year	86.82	224.40	226.93	225.40	226.93	0.000035	0.33	478.39	292.49	0.04
US Route 1-DS09	23370	500-Year	122.88	224.40	227.03	225.51	227.03	0.000068	0.47	514.89	496.20	0.05
US Route 1-DS09	23330	2-Year	19.78	222.00	226.62	222.73	226.62	0.000003	0.12	508.69	523.68	0.01
US Route 1-DS09	23330	10-Year	44.12	222.00	226.76	223.32	226.76	0.000012	0.24	554.66	532.41	0.02
US Route 1-DS09	23330	25-Year	60.58	222.00	226.85	223.66	226.85	0.000019	0.31	585.30	538.15	0.02
US Route 1-DS09	23330	50-Year	73.72	222.00	226.88	223.86	226.88	0.000027	0.37	593.38	539.65	0.03
US Route 1-DS09	23330	100-Year	86.82	222.00	226.93	224.04	226.93	0.000035	0.42	609.90	542.72	0.03
US Route 1-DS09	23330	500-Year	122.88	222.00	227.03	224.32	227.03	0.000059	0.55	644.64	548.45	0.04
US Route 1-DS09	23295 Sturges Hwy		Culvert									
US Route 1-DS09	23260	2-Year	19.78	223.20	225.82	223.62	225.82	0.000015	0.24	163.54	150.47	0.03
US Route 1-DS09	23260	10-Year	44.12	223.20	226.07	223.91	226.07	0.000046	0.43	203.83	173.15	0.05
US Route 1-DS09	23260	25-Year	60.58	223.20	226.32	224.08	226.32	0.000055	0.50	250.25	199.69	0.05
US Route 1-DS09	23260	50-Year	73.72	223.20	226.46	224.22	226.46	0.000064	0.56	279.14	214.55	0.05
US Route 1-DS09	23260	100-Year	86.82	223.20	226.62	224.34	226.62	0.000068	0.59	314.96	231.66	0.06
US Route 1-DS09	23260	500-Year	122.88	223.20	227.02	224.66	227.02	0.000073	0.66	416.46	273.81	0.06
US Route 1-DS09	23230	2-Year	19.78	223.80	225.82	224.11	225.82	0.000020	0.22	143.12	172.74	0.03
US Route 1-DS09	23230	10-Year	44.12	223.80	226.07	224.29	226.07	0.000053	0.40	189.42	208.46	0.05
US Route 1-DS09	23230	25-Year	60.58	223.80	226.31	224.37	226.32	0.000053	0.43	243.06	222.47	0.05
US Route 1-DS09	23230	50-Year	73.72	223.80	226.45	224.44	226.46	0.000057	0.46	274.60	230.31	0.05
US Route 1-DS09	23230	100-Year	86.82	223.80	226.61	224.49	226.62	0.000056	0.47	312.31	239.35	0.05
US Route 1-DS09	23230	500-Year	122.88	223.80	227.02	224.64	227.02	0.000055	0.52	413.62	312.30	0.05
US Route 1-DS09	23145	2-Year	19.78	221.90	225.82	222.76	225.82	0.000006	0.15	160.19	149.00	0.02
US Route 1-DS09	23145	10-Year	44.12	221.90	226.06	223.18	226.06	0.000016	0.26	195.43	165.01	0.03
US Route 1-DS09	23145	25-Year	60.58	221.90	226.31	223.40	226.31	0.000018	0.29	237.73	175.02	0.03
US Route 1-DS09	23145	50-Year	73.72	221.90	226.45	223.56	226.45	0.000020	0.32	262.47	180.63	0.03
US Route 1-DS09	23145	100-Year	86.82	221.90	226.61	223.70	226.61	0.000021	0.34	291.98	187.09	0.03
US Route 1-DS09	23145	500-Year	122.88	221.90	227.01	224.01	227.02	0.000022	0.37	370.31	208.79	0.03
US Route 1-DS09	23125 Driveway Bridge		Culvert									
US Route 1-DS09	23105	2-Year	19.78	221.80	225.82		225.82	0.000019	0.22	189.36	136.04	0.02
US Route 1-DS09	23105	10-Year	44.12	221.80	226.06		226.06	0.000058	0.41	223.12	141.25	0.03
US Route 1-DS09	23105	25-Year	60.58	221.80	226.31		226.31	0.000069	0.47	258.59	144.40	0.04
US Route 1-DS09	23105	50-Year	73.72	221.80	226.45		226.45	0.000081	0.51	279.55	146.24	0.04
US Route 1-DS09	23105	100-Year	86.82	221.80	226.60		226.60	0.000089	0.55	301.75	148.15	0.04
US Route 1-DS09	23105	500-Year	122.88	221.80	227.00		227.00	0.000103	0.62	361.62	153.20	0.05
US Route 1-DS09	22980	2-Year	16.42	223.20	225.81		225.81	0.000011	0.20	117.84	74.44	0.02
US Route 1-DS09	22980	10-Year	45.02	223.20	226.05		226.05	0.000061	0.50	137.05	106.07	0.05
US Route 1-DS09	22980	25-Year	65.02	223.20	226.29		226.30	0.000088	0.64	163.38	109.78	0.07
US Route 1-DS09	22980	50-Year	80.66	223.20	226.43		226.44	0.000111	0.74	178.94	111.92	0.07
US Route 1-DS09	22980	100-Year	102.92	223.20	226.58		226.59	0.000149	0.88	195.34	114.13	0.09
US Route 1-DS09	22980	500-Year	173.19	223.20	226.96		226.98	0.000263	1.26	239.78	119.90	0.12
US Route 1-DS09	22875	2-Year	16.42	223.00	225.81	223.23	225.81	0.000002	0.09	213.77	137.57	0.01
US Route 1-DS09	22875	10-Year	45.02	223.00	226.05	223.40	226.05	0.000011	0.22	247.42	148.19	0.02
US Route 1-DS09	22875	25-Year	65.02	223.00	226.29	223.49	226.29	0.000015	0.28	284.36	154.45	0.03
US Route 1-DS09	22875	50-Year	80.66	223.00	226.43	223.55	226.43	0.000019	0.32	306.31	158.05	0.03
US Route 1-DS09	22875	100-Year	102.92	223.00	226.58	223.64	226.58	0.000025	0.38	329.55	161.77	0.04
US Route 1-DS09	22875	500-Year	173.19	223.00	226.96	223.87	226.96	0.000043	0.53	393.04	171.53	0.05
US Route 1-DS09	22855	2-Year	16.42	222.47	225.81	222.85	225.81	0.000009	0.20	187.07	138.03	0.02
US Route 1-DS09	22855	10-Year	45.02	222.47	226.05	223.23	226.05	0.000045	0.48	220.71	159.24	0.04
US Route 1-DS09	22855	25-Year	65.02	222.47	226.29	223.47	226.29	0.000062	0.59	260.13	164.58	0.05
US Route 1-DS09	22855	50-Year	80.66	222.47	226.43	223.61	226.43	0.000077	0.67	283.38	167.63	0.06
US Route 1-DS09	22855	100-Year	102.92	222.47	226.57	223.79	226.58	0.000101	0.79	307.82	170.78	0.07
US Route 1-DS09	22855	500-Year	173.19	222.47	226.95	224.21	226.96	0.000171	1.09	374.03	179.04	0.09
US Route 1-DS09	22842.9 Footbridge		Bridge									
US Route 1-DS09	22830	2-Year	16.42	222.47	225.81	222.85	225.81	0.000015	0.25	140.14	143.32	0.02
US Route 1-DS09	22830	10-Year	45.02	222.47	226.04	223.22	226.05	0.000078	0.60	176.27	167.82	0.06
US Route 1-DS09	22830	25-Year	65.02	222.47	226.28	223.43	226.29	0.000101	0.71	217.52	172.45	0.06
US Route 1-DS09	22830	50-Year	80.66	222.47	226.42	223.58	226.43	0.000120	0.79	241.69	175.11	0.07
US Route 1-DS09	22830	100-Year	102.92	222.47	226.57	223.77	226.57	0.000153	0.92	266.90	177.84	0.08
US Route 1-DS09	22830	500-Year	173.19	222.47	226.94	224.36	226.95	0.000243	1.22	334.85	184.99	0.10

Deadman Brook Recommended Model

HEC-RAS Plan: Proposed (Continued)

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
US Route 1-DS09	22810	2-Year	16.42	223.20	225.81	223.76	225.81	0.000020	0.26	140.82	158.28	0.03
US Route 1-DS09	22810	10-Year	45.02	223.20	226.04	224.08	226.04	0.000090	0.59	178.81	173.40	0.06
US Route 1-DS09	22810	25-Year	65.02	223.20	226.28	224.26	226.29	0.000110	0.69	221.34	178.08	0.07
US Route 1-DS09	22810	50-Year	80.66	223.20	226.42	224.38	226.43	0.000129	0.77	246.24	180.76	0.08
US Route 1-DS09	22810	100-Year	102.92	223.20	226.56	224.55	226.57	0.000161	0.89	272.14	183.51	0.09
US Route 1-DS09	22810	500-Year	173.19	223.20	226.94	225.12	226.95	0.000246	1.19	341.90	190.72	0.11
US Route 1-DS09	22610	2-Year	16.42	223.20	225.81		225.81	0.000010	0.19	191.78	174.16	0.02
US Route 1-DS09	22610	10-Year	45.02	223.20	226.03		226.03	0.000046	0.43	231.24	184.66	0.05
US Route 1-DS09	22610	25-Year	65.02	223.20	226.27		226.27	0.000059	0.52	275.92	189.32	0.05
US Route 1-DS09	22610	50-Year	80.66	223.20	226.40		226.41	0.000071	0.58	301.85	191.98	0.06
US Route 1-DS09	22610	100-Year	102.92	223.20	226.54		226.54	0.000091	0.68	328.44	194.67	0.07
US Route 1-DS09	22610	500-Year	173.19	223.20	226.90		226.91	0.000147	0.93	399.79	201.70	0.09
US Route 1-DS09	22410	2-Year	16.42	223.20	225.81		225.81	0.000004	0.12	346.88	274.83	0.01
US Route 1-DS09	22410	10-Year	45.02	223.20	226.02		226.02	0.000019	0.28	406.42	277.91	0.03
US Route 1-DS09	22410	25-Year	65.02	223.20	226.26		226.26	0.000026	0.35	472.74	281.18	0.04
US Route 1-DS09	22410	50-Year	80.66	223.20	226.40		226.40	0.000032	0.40	510.70	283.04	0.04
US Route 1-DS09	22410	100-Year	102.92	223.20	226.53		226.53	0.000042	0.47	549.04	284.90	0.05
US Route 1-DS09	22410	500-Year	173.19	223.20	226.88		226.89	0.000073	0.66	650.41	289.76	0.06
US Route 1-DS08	22200	2-Year	19.87	223.20	225.81		225.81	0.000003	0.10	473.60	291.25	0.01
US Route 1-DS08	22200	10-Year	52.81	223.20	226.02		226.02	0.000015	0.24	535.88	294.22	0.03
US Route 1-DS08	22200	25-Year	101.61	223.20	226.25		226.26	0.000039	0.41	605.34	300.18	0.04
US Route 1-DS08	22200	50-Year	131.45	223.20	226.39		226.39	0.000054	0.50	645.27	303.55	0.05
US Route 1-DS08	22200	100-Year	156.97	223.20	226.52		226.52	0.000064	0.56	685.87	306.94	0.06
US Route 1-DS08	22200	500-Year	288.94	223.20	226.86		226.86	0.000139	0.88	792.01	315.63	0.08
US Route 1-DS08	22000	2-Year	19.87	223.00	225.81	223.49	225.81	0.000002	0.08	575.89	328.38	0.01
US Route 1-DS08	22000	10-Year	52.81	223.00	226.02	223.67	226.02	0.000008	0.18	645.82	351.99	0.02
US Route 1-DS08	22000	25-Year	101.61	223.00	226.25	223.88	226.25	0.000021	0.31	727.53	357.47	0.03
US Route 1-DS08	22000	50-Year	131.45	223.00	226.38	223.98	226.38	0.000029	0.38	774.25	360.57	0.04
US Route 1-DS08	22000	100-Year	156.97	223.00	226.51	224.14	226.51	0.000034	0.42	821.90	363.71	0.04
US Route 1-DS08	22000	500-Year	288.94	223.00	226.84	224.36	226.84	0.000077	0.67	943.22	371.51	0.06
US Route 1-DS08	21980	2-Year	19.87	222.33	225.81	222.92	225.81	0.000001	0.08	669.34	334.63	0.01
US Route 1-DS08	21980	10-Year	52.81	222.33	226.02	223.46	226.02	0.000007	0.20	740.65	359.01	0.02
US Route 1-DS08	21980	25-Year	101.61	222.33	226.25	224.00	226.25	0.000019	0.34	823.87	364.14	0.03
US Route 1-DS08	21980	50-Year	131.45	222.33	226.38	224.00	226.38	0.000027	0.41	871.41	367.04	0.04
US Route 1-DS08	21980	100-Year	156.97	222.33	226.51	224.00	226.51	0.000033	0.45	919.87	369.97	0.04
US Route 1-DS08	21980	500-Year	288.94	222.33	226.84	224.07	226.84	0.000074	0.72	1043.00	377.27	0.06
US Route 1-DS08	21968.01 Footbridge		Bridge									
US Route 1-DS08	21955	2-Year	19.87	222.33	225.81	223.50	225.81	0.000004	0.11	276.58	253.18	0.01
US Route 1-DS08	21955	10-Year	52.81	222.33	226.02	224.40	226.02	0.000016	0.24	330.93	264.30	0.02
US Route 1-DS08	21955	25-Year	101.61	222.33	226.25	224.57	226.25	0.000037	0.37	393.37	281.77	0.03
US Route 1-DS08	21955	50-Year	131.45	222.33	226.38	224.65	226.38	0.000048	0.44	430.41	291.64	0.04
US Route 1-DS08	21955	100-Year	156.97	222.33	226.51	224.70	226.51	0.000054	0.47	469.27	301.64	0.04
US Route 1-DS08	21955	500-Year	288.94	222.33	226.83	225.09	226.84	0.000103	0.69	571.42	326.49	0.06
US Route 1-DS08	21935	2-Year	19.87	222.80	225.81		225.81	0.000002	0.08	359.73	259.47	0.01
US Route 1-DS08	21935	10-Year	52.81	222.80	226.02		226.02	0.000008	0.19	415.81	289.71	0.02
US Route 1-DS08	21935	25-Year	101.61	222.80	226.25		226.25	0.000019	0.31	483.26	300.55	0.03
US Route 1-DS08	21935	50-Year	131.45	222.80	226.38		226.38	0.000026	0.37	522.47	306.79	0.04
US Route 1-DS08	21935	100-Year	156.97	222.80	226.51		226.51	0.000030	0.41	563.06	313.13	0.04
US Route 1-DS08	21935	500-Year	288.94	222.80	226.83		226.84	0.000061	0.62	667.34	328.85	0.06
US Route 1-DS08	21720	2-Year	19.87	222.60	225.81		225.81	0.000001	0.08	581.76	413.40	0.01
US Route 1-DS08	21720	10-Year	52.81	222.60	226.02		226.02	0.000006	0.18	668.47	416.29	0.02
US Route 1-DS08	21720	25-Year	101.61	222.60	226.24		226.24	0.000016	0.30	763.03	418.57	0.03
US Route 1-DS08	21720	50-Year	131.45	222.60	226.37		226.37	0.000022	0.37	816.65	419.86	0.03
US Route 1-DS08	21720	100-Year	156.97	222.60	226.50		226.50	0.000026	0.41	871.40	421.17	0.04
US Route 1-DS08	21720	500-Year	288.94	222.60	226.82		226.82	0.000058	0.64	1006.22	424.38	0.06
US Route 1-DS08	21340	2-Year	19.87	222.60	225.81	222.75	225.81	0.000001	0.06	353.18	198.67	0.01
US Route 1-DS08	21340	10-Year	52.81	222.60	226.01	222.89	226.01	0.000004	0.15	394.92	203.96	0.01
US Route 1-DS08	21340	25-Year	101.61	222.60	226.24	223.04	226.24	0.000011	0.25	441.05	209.68	0.02
US Route 1-DS08	21340	50-Year	131.45	222.60	226.36	223.12	226.36	0.000016	0.31	467.58	212.91	0.03
US Route 1-DS08	21340	100-Year	156.97	222.60	226.49	223.18	226.49	0.000019	0.35	495.14	216.21	0.03
US Route 1-DS08	21340	500-Year	288.94	222.60	226.80	223.46	226.80	0.000045	0.57	562.44	224.06	0.05
US Route 1-DS08	21320	2-Year	19.87	220.11	225.81	221.05	225.81	0.000004	0.19	143.85	86.68	0.02
US Route 1-DS08	21320	10-Year	52.81	220.11	226.01	221.49	226.01	0.000023	0.47	163.12	123.19	0.04
US Route 1-DS08	21320	25-Year	101.61	220.11	226.23	221.87	226.23	0.000067	0.82	187.86	164.50	0.06
US Route 1-DS08	21320	50-Year	131.45	220.11	226.35	222.08	226.36	0.000098	1.01	204.02	187.60	0.08
US Route 1-DS08	21320	100-Year	156.97	220.11	226.47	222.24	226.49	0.000120	1.14	222.50	211.51	0.08
US Route 1-DS08	21320	500-Year	288.94	220.11	226.75	222.95	226.79	0.000287	1.81	270.60	265.43	0.13
US Route 1-DS08	21290 Tupelo Rd		Culvert									
US Route 1-DS08	21260	2-Year	19.87	220.66	225.80	221.29	225.80	0.000002	0.11	238.03	179.47	0.01
US Route 1-DS08	21260	10-Year	52.81	220.66	225.99	221.64	225.99	0.000010	0.27	265.60	190.47	0.02

Deadman Brook Recommended Model

HEC-RAS Plan: Proposed (Continued)

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
US Route 1-DS08	21260	25-Year	101.61	220.66	226.21	222.02	226.22	0.000028	0.46	299.45	215.82	0.04
US Route 1-DS08	21260	50-Year	131.45	220.66	226.35	222.22	226.35	0.000040	0.56	319.95	231.04	0.05
US Route 1-DS08	21260	100-Year	156.97	220.66	226.43	222.39	226.44	0.000051	0.65	333.35	240.78	0.05
US Route 1-DS08	21260	500-Year	288.94	220.66	226.75	223.10	226.76	0.000121	1.04	385.90	277.59	0.08
US Route 1-DS08	21240	2-Year	19.87	222.60	225.80	222.82	225.80	0.000001	0.07	304.39	215.69	0.01
US Route 1-DS08	21240	10-Year	52.81	222.60	225.99	223.00	225.99	0.000006	0.17	331.33	244.84	0.02
US Route 1-DS08	21240	25-Year	101.61	222.60	226.21	223.10	226.22	0.000016	0.31	365.15	261.88	0.03
US Route 1-DS08	21240	50-Year	131.45	222.60	226.35	223.10	226.35	0.000023	0.38	385.46	271.44	0.03
US Route 1-DS08	21240	100-Year	156.97	222.60	226.43	223.11	226.43	0.000030	0.44	398.68	277.57	0.04
US Route 1-DS08	21240	500-Year	288.94	222.60	226.75	223.36	226.76	0.000072	0.72	450.08	300.76	0.06
US Route 1-DS08	21070	2-Year	19.87	222.60	225.80		225.80	0.000001	0.09	250.05	245.53	0.01
US Route 1-DS08	21070	10-Year	52.81	222.60	225.99		225.99	0.000008	0.21	291.76	286.75	0.02
US Route 1-DS08	21070	25-Year	101.61	222.60	226.21		226.21	0.000024	0.37	342.14	301.19	0.04
US Route 1-DS08	21070	50-Year	131.45	222.60	226.34		226.34	0.000034	0.46	372.15	305.22	0.04
US Route 1-DS08	21070	100-Year	156.97	222.60	226.42		226.43	0.000044	0.53	391.47	307.79	0.05
US Route 1-DS08	21070	500-Year	288.94	222.60	226.74		226.75	0.000105	0.86	465.29	317.40	0.08
US Route 1-DS08	20925	2-Year	19.87	222.40	225.80		225.80	0.000000	0.05	499.27	452.98	0.00
US Route 1-DS08	20925	10-Year	52.81	222.40	225.99		225.99	0.000003	0.12	591.60	493.98	0.01
US Route 1-DS08	20925	25-Year	101.61	222.40	226.21		226.21	0.000007	0.20	702.54	499.51	0.02
US Route 1-DS08	20925	50-Year	131.45	222.40	226.34		226.34	0.000009	0.25	767.84	502.24	0.02
US Route 1-DS08	20925	100-Year	156.97	222.40	226.42		226.42	0.000012	0.28	809.58	503.97	0.02
US Route 1-DS08	20925	500-Year	288.94	222.40	226.73		226.74	0.000026	0.44	967.09	510.45	0.04
US Route 1-DS08	20755	2-Year	27.51	222.60	225.80	222.74	225.80	0.000001	0.07	438.49	203.58	0.01
US Route 1-DS08	20755	10-Year	54.68	222.60	225.99	222.81	225.99	0.000003	0.13	477.98	210.01	0.01
US Route 1-DS08	20755	25-Year	103.38	222.60	226.21	222.93	226.21	0.000009	0.23	543.40	301.85	0.02
US Route 1-DS08	20755	50-Year	141.47	222.60	226.34	223.00	226.34	0.000014	0.29	582.61	304.11	0.03
US Route 1-DS08	20755	100-Year	181.51	222.60	226.42	223.07	226.42	0.000021	0.36	607.52	305.54	0.03
US Route 1-DS08	20755	500-Year	301.25	222.60	226.73	223.25	226.73	0.000041	0.54	702.02	310.90	0.05
US Route 1-DS08	20700	2-Year	27.51	217.81	225.79	219.23	225.79	0.000010	0.37	107.09	61.20	0.02
US Route 1-DS08	20700	10-Year	54.68	217.81	225.98	219.67	225.98	0.000034	0.70	118.87	68.42	0.05
US Route 1-DS08	20700	25-Year	103.38	217.81	226.18	220.21	226.20	0.000103	1.24	142.58	128.17	0.08
US Route 1-DS08	20700	50-Year	141.47	217.81	226.29	220.58	226.33	0.000171	1.61	157.40	136.18	0.10
US Route 1-DS08	20700	100-Year	181.51	217.81	226.35	220.92	226.40	0.000265	2.02	165.43	140.33	0.13
US Route 1-DS08	20700	500-Year	301.25	217.81	226.58	221.83	226.69	0.000571	3.02	200.00	156.93	0.19
US Route 1-DS08	20662.5 Tupelo Rd		Culvert									
US Route 1-DS08	20625	2-Year	27.51	218.46	221.88	219.95	221.91	0.000494	1.38	21.46	10.61	0.14
US Route 1-DS08	20625	10-Year	54.68	218.46	222.44	220.47	222.50	0.000941	2.15	27.78	12.01	0.21
US Route 1-DS08	20625	25-Year	103.38	218.46	223.15	221.16	223.28	0.001527	3.11	37.04	14.33	0.27
US Route 1-DS08	20625	50-Year	141.47	218.46	223.60	221.60	223.77	0.001815	3.64	43.92	16.16	0.30
US Route 1-DS08	20625	100-Year	181.51	218.46	224.01	222.01	224.23	0.002103	4.15	50.93	18.98	0.33
US Route 1-DS08	20625	500-Year	301.25	218.46	224.95	222.92	225.26	0.002660	5.24	77.86	43.97	0.38
US Route 1-DS08	20610	2-Year	27.51	220.40	221.73	221.29	221.85	0.006570	2.82	10.30	11.08	0.47
US Route 1-DS08	20610	10-Year	54.68	220.40	222.17	221.70	222.41	0.008161	3.93	15.72	13.28	0.55
US Route 1-DS08	20610	25-Year	103.38	220.40	222.68	222.27	223.12	0.010892	5.47	23.11	16.38	0.67
US Route 1-DS08	20610	50-Year	141.47	220.40	222.96	222.63	223.56	0.012808	6.46	28.05	18.50	0.74
US Route 1-DS08	20610	100-Year	181.51	220.40	223.25	223.03	223.98	0.013692	7.21	33.65	20.86	0.78
US Route 1-DS08	20610	500-Year	301.25	220.40	223.93	223.93	224.94	0.014839	8.77	50.17	27.41	0.85
US Route 1-DS08	20435	2-Year	27.51	218.80	219.53	219.53	219.72	0.041626	3.55	7.76	20.24	1.01
US Route 1-DS08	20435	10-Year	54.68	218.80	219.75	219.75	220.03	0.035834	4.27	13.06	26.45	1.00
US Route 1-DS08	20435	25-Year	103.38	218.80	220.06	220.06	220.46	0.028922	5.12	22.38	34.09	0.97
US Route 1-DS08	20435	50-Year	141.47	218.80	220.26	220.26	220.72	0.026104	5.58	29.69	38.81	0.95
US Route 1-DS08	20435	100-Year	181.51	218.80	220.41	220.41	220.97	0.027137	6.20	35.65	42.57	0.99
US Route 1-DS08	20435	500-Year	301.25	218.80	220.92	220.92	221.54	0.019945	6.72	64.45	64.34	0.90
US Route 1-DS08	20340	2-Year	27.51	217.20	218.87	217.93	218.89	0.000702	1.08	38.08	53.13	0.16
US Route 1-DS08	20340	10-Year	54.68	217.20	219.35	218.21	219.37	0.000808	1.41	67.11	67.81	0.18
US Route 1-DS08	20340	25-Year	103.38	217.20	220.07	218.65	220.10	0.000705	1.64	123.14	88.16	0.18
US Route 1-DS08	20340	50-Year	141.47	217.20	220.21	218.84	220.25	0.001040	2.06	134.99	89.71	0.22
US Route 1-DS08	20340	100-Year	181.51	217.20	220.37	219.05	220.42	0.001305	2.40	149.53	91.58	0.25
US Route 1-DS08	20340	500-Year	301.25	217.20	220.84	219.48	220.93	0.001746	3.07	194.59	97.15	0.30
US Route 1-DS08	20320	2-Year	27.51	215.50	218.86	216.88	218.87	0.000807	1.33	48.93	58.47	0.13
US Route 1-DS08	20320	10-Year	54.68	215.50	219.33	217.90	219.35	0.001046	1.65	79.56	68.65	0.15
US Route 1-DS08	20320	25-Year	103.38	215.50	220.06	218.53	220.08	0.000897	1.71	133.53	78.66	0.14
US Route 1-DS08	20320	50-Year	141.47	215.50	220.19	218.76	220.22	0.001363	2.15	143.75	80.34	0.18
US Route 1-DS08	20320	100-Year	181.51	215.50	220.35	219.06	220.38	0.001755	2.50	156.52	82.39	0.20
US Route 1-DS08	20320	500-Year	301.25	215.50	220.82	219.41	220.87	0.002459	3.14	196.86	88.57	0.24
US Route 1-DS08	20306.54 Footbridge		Bridge									
US Route 1-DS08	20295	2-Year	27.51	215.50	218.76	216.88	218.81	0.002619	2.07	23.84	28.13	0.20
US Route 1-DS08	20295	10-Year	54.68	215.50	219.18	218.08	219.26	0.004224	2.86	38.27	38.17	0.26
US Route 1-DS08	20295	25-Year	103.38	215.50	219.97	218.95	220.02	0.002931	2.71	73.79	53.98	0.23
US Route 1-DS08	20295	50-Year	141.47	215.50	220.03	219.27	220.12	0.004823	3.50	77.47	55.71	0.29

Deadman Brook Recommended Model

HEC-RAS Plan: Proposed (Continued)

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
US Route 1-DS08	20295	100-Year	181.51	215.50	220.14	219.47	220.26	0.006533	4.14	83.29	58.47	0.34
US Route 1-DS08	20295	500-Year	301.25	215.50	220.54	219.87	220.71	0.008546	5.00	108.83	69.30	0.39
US Route 1-DS08	20275	2-Year	27.51	217.60	218.55		218.67	0.012854	2.78	10.04	17.55	0.61
US Route 1-DS08	20275	10-Year	54.68	217.60	218.73	218.65	219.01	0.021962	4.27	13.43	20.61	0.83
US Route 1-DS08	20275	25-Year	103.38	217.60	219.90		219.96	0.001917	2.28	63.26	64.75	0.28
US Route 1-DS08	20275	50-Year	141.47	217.60	219.90		220.02	0.003605	3.12	63.15	64.69	0.39
US Route 1-DS08	20275	100-Year	181.51	217.60	219.89		220.08	0.006149	4.06	62.27	64.16	0.51
US Route 1-DS08	20275	500-Year	301.25	217.60	220.20		220.49	0.007444	4.93	84.07	71.01	0.57
US Route 1-DS08	20120	2-Year	27.51	216.40	217.59		217.65	0.004056	1.95	15.48	23.73	0.36
US Route 1-DS08	20120	10-Year	54.68	216.40	218.48		218.51	0.001039	1.56	60.93	91.92	0.21
US Route 1-DS08	20120	25-Year	103.38	216.40	219.91		219.91	0.000074	0.61	264.77	180.67	0.06
US Route 1-DS08	20120	50-Year	141.47	216.40	219.92		219.92	0.000136	0.84	266.16	181.07	0.08
US Route 1-DS08	20120	100-Year	181.51	216.40	219.92		219.93	0.000224	1.07	266.31	181.12	0.11
US Route 1-DS08	20120	500-Year	301.25	216.40	220.26		220.27	0.000316	1.36	330.34	195.26	0.13
US Route 1-DS08	20035	2-Year	27.51	216.00	217.38	216.72	217.41	0.001660	1.39	27.07	59.92	0.24
US Route 1-DS08	20035	10-Year	54.68	216.00	218.45	217.00	218.46	0.000295	0.93	112.72	89.31	0.11
US Route 1-DS08	20035	25-Year	103.38	216.00	219.90	217.43	219.90	0.000111	0.81	253.13	101.53	0.08
US Route 1-DS08	20035	50-Year	141.47	216.00	219.90	217.64	219.91	0.000208	1.11	252.94	101.51	0.10
US Route 1-DS08	20035	100-Year	181.51	216.00	219.88	217.79	219.90	0.000347	1.43	251.64	101.44	0.13
US Route 1-DS08	20035	500-Year	301.25	216.00	220.19	218.13	220.23	0.000675	2.10	283.97	110.26	0.19
US Route 1-DS08	19980	2-Year	27.51	213.83	217.38	214.67	217.39	0.000077	0.55	54.12	24.52	0.06
US Route 1-DS08	19980	10-Year	54.68	213.83	218.44	215.04	218.45	0.000100	0.77	80.64	100.63	0.07
US Route 1-DS08	19980	25-Year	103.38	213.83	219.88	215.52	219.90	0.000117	1.03	120.50	164.72	0.08
US Route 1-DS08	19980	50-Year	141.47	213.83	219.87	215.81	219.90	0.000221	1.41	120.03	164.57	0.11
US Route 1-DS08	19980	100-Year	181.51	213.83	219.84	216.08	219.88	0.000371	1.83	119.07	164.27	0.14
US Route 1-DS08	19980	500-Year	301.25	213.83	220.18	216.70	220.21	0.000374	1.80	360.02	170.86	0.14
US Route 1-DS08	19945 Cardinal Ln		Culvert									
US Route 1-DS08	19910	2-Year	27.51	214.52	217.18	215.61	217.20	0.000721	1.40	20.87	14.21	0.16
US Route 1-DS08	19910	10-Year	54.68	214.52	217.61	216.17	217.67	0.001350	2.15	27.63	19.82	0.23
US Route 1-DS08	19910	25-Year	103.38	214.52	218.26	216.73	218.37	0.001740	2.82	40.61	52.99	0.27
US Route 1-DS08	19910	50-Year	141.47	214.52	218.45	217.17	218.61	0.002527	3.52	44.87	59.80	0.33
US Route 1-DS08	19910	100-Year	181.51	214.52	218.55	217.52	218.80	0.003620	4.30	47.41	63.72	0.39
US Route 1-DS08	19910	500-Year	301.25	214.52	218.76	218.26	219.30	0.007612	6.46	52.73	71.41	0.58
US Route 1-DS08	19890	2-Year	27.51	216.00	216.82	216.82	217.07	0.037031	3.97	6.93	14.19	0.99
US Route 1-DS08	19890	10-Year	54.68	216.00	217.36	217.13	217.54	0.010505	3.46	16.62	21.57	0.60
US Route 1-DS08	19890	25-Year	103.38	216.00	218.20	217.53	218.29	0.002886	2.68	45.91	78.24	0.35
US Route 1-DS08	19890	50-Year	141.47	216.00	218.40	217.79	218.49	0.002833	2.84	68.85	150.97	0.35
US Route 1-DS08	19890	100-Year	181.51	216.00	218.52	217.97	218.61	0.002865	2.97	83.80	159.77	0.35
US Route 1-DS08	19890	500-Year	301.25	216.00	218.84	218.50	218.94	0.002639	3.12	130.03	221.39	0.35
US Route 1-DS08	19795 FEMA "T"	2-Year	27.51	214.20	215.62		215.66	0.002235	1.69	17.48	20.99	0.28
US Route 1-DS08	19795 FEMA "T"	10-Year	54.68	214.20	217.44		217.45	0.000106	0.70	91.78	56.13	0.07
US Route 1-DS08	19795 FEMA "T"	25-Year	103.38	214.20	218.23		218.24	0.000113	0.84	138.82	63.21	0.08
US Route 1-DS08	19795 FEMA "T"	50-Year	141.47	214.20	218.40		218.42	0.000170	1.06	149.65	64.77	0.09
US Route 1-DS08	19795 FEMA "T"	100-Year	181.51	214.20	218.51		218.53	0.000246	1.30	156.48	65.74	0.11
US Route 1-DS08	19795 FEMA "T"	500-Year	301.25	214.20	218.76		218.82	0.000501	1.93	173.80	68.13	0.16
US Route 1-DS08	19745	2-Year	27.51	213.16	215.40	214.32	215.48	0.003835	2.40	11.45	6.58	0.32
US Route 1-DS08	19745	10-Year	54.68	213.16	217.41	214.89	217.43	0.000524	1.37	42.25	55.25	0.13
US Route 1-DS08	19745	25-Year	103.38	213.16	218.21	215.65	218.23	0.000383	1.35	111.29	190.90	0.11
US Route 1-DS08	19745	50-Year	141.47	213.16	218.37	216.57	218.40	0.000449	1.50	139.06	198.40	0.12
US Route 1-DS08	19745	100-Year	181.51	213.16	218.48	216.91	218.51	0.000569	1.71	156.14	202.89	0.14
US Route 1-DS08	19745	500-Year	301.25	213.16	218.73	217.38	218.78	0.000856	2.17	200.73	214.24	0.17
US Route 1-DS08	19727 Driveway Bridge		Culvert									
US Route 1-DS08	19710	2-Year	27.51	213.06	214.90	213.98	214.94	0.002071	1.73	15.91	12.76	0.27
US Route 1-DS08	19710	10-Year	54.68	213.06	215.42	214.39	215.50	0.003087	2.36	23.19	14.88	0.33
US Route 1-DS08	19710	25-Year	103.38	213.06	216.02	214.89	216.17	0.004257	3.14	32.89	17.33	0.40
US Route 1-DS08	19710	50-Year	141.47	213.06	216.36	215.24	216.57	0.004986	3.62	39.10	18.74	0.44
US Route 1-DS08	19710	100-Year	181.51	213.06	216.65	215.54	216.91	0.005477	4.06	45.24	24.20	0.47
US Route 1-DS08	19710	500-Year	301.25	213.06	217.19	216.26	217.59	0.006779	5.14	63.47	43.45	0.54
US Route 1-DS08	19690	2-Year	27.51	213.60	214.44	214.44	214.75	0.035601	4.47	6.16	10.16	1.00
US Route 1-DS08	19690	10-Year	54.68	213.60	214.83	214.83	215.26	0.026407	5.32	10.55	12.50	0.93
US Route 1-DS08	19690	25-Year	103.38	213.60	215.34	215.34	215.89	0.020561	6.15	17.75	16.02	0.88
US Route 1-DS08	19690	50-Year	141.47	213.60	215.62	215.62	216.26	0.019140	6.67	22.65	18.02	0.87
US Route 1-DS08	19690	100-Year	181.51	213.60	215.90	215.90	216.59	0.017768	7.05	27.83	20.43	0.86
US Route 1-DS08	19690	500-Year	301.25	213.60	216.61	216.61	217.30	0.013294	7.42	47.52	34.91	0.78
US Route 1-DS08	19515	2-Year	27.51	212.00	214.01		214.01	0.000087	0.46	71.52	78.49	0.06
US Route 1-DS08	19515	10-Year	54.68	212.00	214.51		214.51	0.000086	0.53	113.29	90.71	0.06
US Route 1-DS08	19515	25-Year	103.38	212.00	215.15		215.15	0.000076	0.59	176.61	108.11	0.06
US Route 1-DS08	19515	50-Year	141.47	212.00	215.27		215.28	0.000113	0.74	190.14	112.42	0.07
US Route 1-DS08	19515	100-Year	181.51	212.00	215.44		215.46	0.000137	0.85	210.00	118.42	0.08
US Route 1-DS08	19515	500-Year	301.25	212.00	215.80		215.83	0.000213	1.13	255.07	131.76	0.10

Deadman Brook Recommended Model

HEC-RAS Plan: Proposed (Continued)

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
US Route 1-DS08	19475	2-Year	27.51	212.80	213.97	213.36	214.00	0.002045	1.44	19.86	24.66	0.26
US Route 1-DS08	19475	10-Year	54.68	212.80	214.43	213.63	214.49	0.002059	1.88	35.28	115.14	0.28
US Route 1-DS08	19475	25-Year	103.38	212.80	215.10	213.97	215.14	0.001157	1.82	116.60	167.67	0.22
US Route 1-DS08	19475	50-Year	141.47	212.80	215.20	214.19	215.26	0.001625	2.23	133.48	174.01	0.27
US Route 1-DS08	19475	100-Year	181.51	212.80	215.37	214.57	215.43	0.001729	2.42	161.27	184.34	0.28
US Route 1-DS08	19475	500-Year	301.25	212.80	215.72	215.07	215.80	0.002180	2.98	219.61	205.60	0.32
US Route 1-DS08	19462.38 Footbridge	Bridge										
US Route 1-DS08	19450	2-Year	27.51	212.80	213.42	213.38	213.60	0.030449	3.44	8.01	49.74	0.89
US Route 1-DS08	19450	10-Year	54.68	212.80	213.63	213.63	213.97	0.033403	4.65	11.94	62.10	0.99
US Route 1-DS08	19450	25-Year	103.38	212.80	214.16	213.99	214.52	0.016948	4.85	22.89	90.36	0.78
US Route 1-DS08	19450	50-Year	141.47	212.80	214.40	214.23	214.85	0.016903	5.47	28.19	109.55	0.80
US Route 1-DS08	19450	100-Year	181.51	212.80	214.50	214.50	215.09	0.020957	6.35	36.60	116.29	0.90
US Route 1-DS08	19450	500-Year	301.25	212.80	215.21	215.21	215.59	0.009990	5.66	118.53	216.70	0.66
US Route 1-DS08	19370 FEMA "S"	2-Year	27.51	210.15	211.34		211.54	0.019447	3.54	7.82	11.67	0.75
US Route 1-DS08	19370 FEMA "S"	10-Year	54.68	210.15	213.06		213.09	0.000939	1.53	59.35	165.46	0.19
US Route 1-DS08	19370 FEMA "S"	25-Year	103.38	210.15	212.04	212.04	212.64	0.028630	6.27	16.99	70.59	1.00
US Route 1-DS08	19370 FEMA "S"	50-Year	141.47	210.15	212.36	212.36	213.05	0.026090	6.70	21.96	96.95	0.98
US Route 1-DS08	19370 FEMA "S"	100-Year	181.51	210.15	212.94	212.94	213.40	0.013385	5.62	49.46	155.73	0.73
US Route 1-DS08	19370 FEMA "S"	500-Year	301.25	210.15	213.37	213.37	213.86	0.014019	6.31	89.65	199.83	0.76
US Route 1-DS08	19100	2-Year	27.51	210.00	211.44	210.25	211.44	0.000039	0.25	111.97	191.37	0.04
US Route 1-DS08	19100	10-Year	54.68	210.00	213.08	210.34	213.08	0.000002	0.10	588.35	226.29	0.01
US Route 1-DS08	19100	25-Year	103.38	210.00	212.25	210.47	212.25	0.000023	0.26	407.25	211.39	0.03
US Route 1-DS08	19100	50-Year	141.47	210.00	212.25	210.56	212.25	0.000043	0.36	407.26	211.39	0.04
US Route 1-DS08	19100	100-Year	181.51	210.00	212.25	210.64	212.25	0.000071	0.46	407.27	211.39	0.06
US Route 1-DS08	19100	500-Year	301.25	210.00	212.29	210.86	212.30	0.000182	0.75	417.09	212.19	0.09
US Route 1-DS08	19055	2-Year	27.51	209.60	211.44	209.96	211.44	0.000039	0.29	95.79	229.89	0.04
US Route 1-DS08	19055	10-Year	54.68	209.60	213.08	210.08	213.08	0.000001	0.08	727.76	254.78	0.01
US Route 1-DS08	19055	25-Year	103.38	209.60	212.25	210.24	212.25	0.000012	0.20	523.22	238.31	0.02
US Route 1-DS08	19055	50-Year	141.47	209.60	212.25	210.34	212.25	0.000023	0.28	523.10	238.30	0.03
US Route 1-DS08	19055	100-Year	181.51	209.60	212.24	210.45	212.25	0.000038	0.36	522.91	238.28	0.04
US Route 1-DS08	19055	500-Year	301.25	209.60	212.29	210.72	212.29	0.000099	0.58	533.18	239.15	0.07
US Route 1-DS08	19027.5 Driveway Bridge	Culvert										
US Route 1-DS08	18990	2-Year	27.51	209.50	210.41	210.11	210.46	0.005339	1.78	15.64	179.65	0.39
US Route 1-DS08	18990	10-Year	54.68	209.50	213.07	210.32	213.07	0.000004	0.15	692.94	276.96	0.01
US Route 1-DS08	18990	25-Year	103.38	209.50	210.80	210.61	211.07	0.015118	4.12	25.68	203.70	0.72
US Route 1-DS08	18990	50-Year	141.47	209.50	210.94	210.80	211.32	0.018658	4.98	29.18	207.29	0.81
US Route 1-DS08	18990	100-Year	181.51	209.50	211.05	210.98	211.57	0.022339	5.80	32.15	209.73	0.90
US Route 1-DS08	18990	500-Year	301.25	209.50	211.45	211.45	212.27	0.024827	7.32	42.37	215.75	1.00
US Route 1-DS08	18940	2-Year	27.51	209.40	210.35	209.92	210.36	0.000761	0.63	43.67	207.36	0.15
US Route 1-DS08	18940	10-Year	54.68	209.40	213.07	210.03	213.07	0.000001	0.07	810.57	267.64	0.01
US Route 1-DS08	18940	25-Year	103.38	209.40	210.55	210.17	210.60	0.003978	1.76	58.84	236.32	0.35
US Route 1-DS08	18940	50-Year	141.47	209.40	210.75	210.25	210.80	0.003536	1.92	73.58	239.58	0.34
US Route 1-DS08	18940	100-Year	181.51	209.40	210.91	210.34	210.98	0.003448	2.11	86.09	241.86	0.35
US Route 1-DS08	18940	500-Year	301.25	209.40	211.29	210.56	211.40	0.003634	2.62	114.85	247.13	0.38
US Route 1-DS08	18800	2-Year	27.51	209.00	210.33	209.27	210.33	0.000079	0.33	118.73	155.13	0.05
US Route 1-DS08	18800	10-Year	54.68	209.00	213.07	209.41	213.07	0.000002	0.13	666.73	257.49	0.01
US Route 1-DS08	18800	25-Year	103.38	209.00	210.27	209.59	210.29	0.001360	1.32	110.45	149.81	0.22
US Route 1-DS08	18800	50-Year	141.47	209.00	210.45	209.72	210.48	0.001533	1.55	136.85	167.11	0.24
US Route 1-DS08	18800	100-Year	181.51	209.00	210.63	209.83	210.67	0.001468	1.65	167.88	173.40	0.24
US Route 1-DS08	18800	500-Year	301.25	209.00	211.01	210.05	211.06	0.001576	1.99	235.30	184.29	0.26
US Route 1-DS08	18760	2-Year	27.51	208.30	210.33	208.82	210.33	0.000075	0.42	139.35	145.81	0.05
US Route 1-DS08	18760	10-Year	54.68	208.30	213.07	209.10	213.07	0.000003	0.14	668.99	234.49	0.01
US Route 1-DS08	18760	25-Year	103.38	208.30	210.20	209.48	210.23	0.001498	1.78	121.38	140.41	0.24
US Route 1-DS08	18760	50-Year	141.47	208.30	210.38	209.70	210.42	0.001719	2.04	146.94	148.03	0.26
US Route 1-DS08	18760	100-Year	181.51	208.30	210.56	209.84	210.60	0.001838	2.24	174.17	157.59	0.27
US Route 1-DS08	18760	500-Year	301.25	208.30	210.92	210.10	210.98	0.002184	2.72	234.28	173.05	0.31
US Route 1-DS08	18748.32 Footbridge	Bridge										
US Route 1-DS08	18735	2-Year	27.51	208.30	210.32	208.85	210.33	0.000127	0.54	120.16	133.35	0.07
US Route 1-DS08	18735	10-Year	54.68	208.30	213.07	209.16	213.07	0.000003	0.14	668.40	259.52	0.01
US Route 1-DS08	18735	25-Year	103.38	208.30	210.04	209.63	210.12	0.004424	2.86	83.63	126.01	0.39
US Route 1-DS08	18735	50-Year	141.47	208.30	210.21	209.90	210.29	0.004726	3.15	105.08	130.14	0.41
US Route 1-DS08	18735	100-Year	181.51	208.30	210.39	210.00	210.47	0.004590	3.30	128.82	135.15	0.41
US Route 1-DS08	18735	500-Year	301.25	208.30	210.72	210.25	210.83	0.005588	4.02	177.14	151.90	0.46
US Route 1-DS08	18710 FEMA "R"	2-Year	27.51	207.46	209.38	209.38	210.10	0.093655	8.88	7.06	85.73	1.68
US Route 1-DS08	18710 FEMA "R"	10-Year	54.68	207.46	209.38	209.38	212.22	0.370003	17.66	7.06	85.73	3.35
US Route 1-DS08	18710 FEMA "R"	25-Year	103.38	207.46	209.80	209.80	209.94	0.006873	3.84	76.28	177.51	0.51
US Route 1-DS08	18710 FEMA "R"	50-Year	141.47	207.46	209.86	209.83	210.06	0.009962	4.73	86.32	185.39	0.62
US Route 1-DS08	18710 FEMA "R"	100-Year	181.51	207.46	210.04	209.92	210.25	0.009874	5.02	117.63	220.16	0.63
US Route 1-DS08	18710 FEMA "R"	500-Year	301.25	207.46	210.59	210.22	210.67	0.004307	3.90	240.38	229.20	0.43

Deadman Brook Recommended Model

HEC-RAS Plan: Proposed (Continued)

Reach	River Sta		Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
US Route 1-DS08	18490		2-Year	27.51	207.00	208.77	207.67	208.78	0.000323	0.77	58.04	88.84	0.11
US Route 1-DS08	18490		10-Year	54.68	207.00	209.10	207.93	209.11	0.000482	1.07	96.07	134.12	0.14
US Route 1-DS08	18490		25-Year	103.38	207.00	209.47	208.32	209.48	0.000500	1.23	146.94	140.69	0.15
US Route 1-DS08	18490		50-Year	141.47	207.00	209.65	208.53	209.67	0.000561	1.38	173.05	149.12	0.16
US Route 1-DS08	18490		100-Year	181.51	207.00	209.81	208.70	209.83	0.000600	1.49	197.35	153.87	0.17
US Route 1-DS08	18490		500-Year	301.25	207.00	210.39	209.17	210.41	0.000459	1.49	290.26	169.22	0.15
US Route 1-DS08	18440	FEMA "Q"	2-Year	27.51	205.12	208.76	206.46	208.77	0.000171	0.88	52.64	29.72	0.09
US Route 1-DS08	18440	FEMA "Q"	10-Year	54.68	205.12	209.06	206.90	209.09	0.000499	1.60	61.92	38.38	0.15
US Route 1-DS08	18440	FEMA "Q"	25-Year	103.38	205.12	209.34	207.47	209.44	0.001409	2.83	77.25	70.90	0.26
US Route 1-DS08	18440	FEMA "Q"	50-Year	141.47	205.12	209.43	207.82	209.59	0.002328	3.70	84.10	77.49	0.34
US Route 1-DS08	18440	FEMA "Q"	100-Year	181.51	205.12	209.47	208.14	209.73	0.003625	4.65	87.17	80.07	0.42
US Route 1-DS08	18440	FEMA "Q"	500-Year	301.25	205.12	209.18	208.90	210.10	0.014058	8.69	67.43	52.45	0.82
US Route 1-DS08	18400	Highland Rd		Culvert									
US Route 1-DS08	18360		2-Year	27.51	203.76	206.00	204.94	206.02	0.001039	1.25	22.33	20.20	0.19
US Route 1-DS08	18360		10-Year	54.68	203.76	206.46	205.31	206.51	0.001456	1.81	31.66	24.42	0.24
US Route 1-DS08	18360		25-Year	103.38	203.76	206.97	205.75	207.07	0.002092	2.57	46.70	29.06	0.30
US Route 1-DS08	18360		50-Year	141.47	203.76	207.30	206.00	207.44	0.002454	3.05	57.51	38.06	0.33
US Route 1-DS08	18360		100-Year	181.51	203.76	207.60	206.24	207.77	0.002681	3.43	70.41	46.95	0.35
US Route 1-DS08	18360		500-Year	301.25	203.76	208.20	206.87	208.47	0.003605	4.50	104.13	71.89	0.42
US Route 1-DS08	18300		2-Year	27.98	205.00	205.62	205.56	205.80	0.026734	3.45	8.10	17.54	0.85
US Route 1-DS08	18300		10-Year	55.27	205.00	205.83	205.83	206.19	0.034196	4.80	11.51	19.46	1.01
US Route 1-DS08	18300		25-Year	96.41	205.00	206.15	206.15	206.66	0.029363	5.73	17.01	22.45	1.00
US Route 1-DS08	18300		50-Year	128.08	205.00	206.37	206.37	206.97	0.027139	6.26	20.91	24.99	0.99
US Route 1-DS08	18300		100-Year	161.47	205.00	206.57	206.57	207.28	0.025727	6.75	24.74	27.30	0.99
US Route 1-DS08	18300		500-Year	296.13	205.00	207.27	207.27	207.96	0.016653	6.91	57.75	61.30	0.84
US Route 1-DS08	18090		2-Year	34.67	200.00	200.98	200.84	201.20	0.019761	3.75	9.25	12.40	0.76
US Route 1-DS08	18090		10-Year	75.15	200.00	201.64	201.31	201.90	0.010566	4.16	18.63	16.32	0.62
US Route 1-DS08	18090		25-Year	116.01	200.00	202.49	201.67	202.66	0.003957	3.50	36.76	29.80	0.41
US Route 1-DS08	18090		50-Year	158.06	200.00	203.35	201.98	203.44	0.001403	2.59	70.16	43.90	0.26
US Route 1-DS08	18090		100-Year	203.58	200.00	203.88	202.34	203.96	0.000993	2.42	94.19	47.33	0.22
US Route 1-DS08	18090		500-Year	347.79	200.00	204.88	203.07	204.97	0.000848	2.62	147.70	61.27	0.21
US Route 1-DS08	18045	FEMA "P"	2-Year	34.67	199.00	200.99	199.71	201.01	0.000637	1.21	29.79	20.94	0.16
US Route 1-DS08	18045	FEMA "P"	10-Year	75.15	199.00	201.64	200.13	201.68	0.000914	1.78	44.57	24.82	0.20
US Route 1-DS08	18045	FEMA "P"	25-Year	116.01	199.00	202.49	200.46	202.53	0.000651	1.83	68.13	31.14	0.18
US Route 1-DS08	18045	FEMA "P"	50-Year	158.06	199.00	203.34	200.75	203.38	0.000444	1.77	97.83	38.42	0.15
US Route 1-DS08	18045	FEMA "P"	100-Year	203.58	199.00	203.86	201.01	203.91	0.000428	1.88	119.16	51.00	0.15
US Route 1-DS08	18045	FEMA "P"	500-Year	347.79	199.00	204.86	201.70	204.92	0.000443	2.17	184.28	137.55	0.16
US Route 1-DS08	17942.5 Bayberry Ln			Culvert									
US Route 1-DS08	17835	FEMA "O"	2-Year	34.67	197.00	200.88	197.70	200.88	0.000034	0.46	81.54	32.66	0.04
US Route 1-DS08	17835	FEMA "O"	10-Year	75.15	197.00	201.14	198.11	201.15	0.000121	0.89	90.36	34.24	0.08
US Route 1-DS08	17835	FEMA "O"	25-Year	116.01	197.00	201.36	198.42	201.39	0.000227	1.27	98.18	35.59	0.11
US Route 1-DS08	17835	FEMA "O"	50-Year	158.06	197.00	201.55	198.71	201.59	0.000348	1.62	104.98	36.72	0.14
US Route 1-DS08	17835	FEMA "O"	100-Year	203.58	197.00	201.83	198.98	201.88	0.000443	1.90	115.29	57.11	0.16
US Route 1-DS08	17835	FEMA "O"	500-Year	347.79	197.00	202.90	199.62	202.97	0.000502	2.33	180.59	104.96	0.17
US Route 1-DS08	17775		2-Year	34.67	199.40	200.80	200.80	200.86	0.003567	2.07	31.00	92.41	0.35
US Route 1-DS08	17775		10-Year	75.15	199.40	200.84	200.84	201.06	0.014088	4.21	34.32	93.47	0.70
US Route 1-DS08	17775		25-Year	116.01	199.40	201.01	201.01	201.27	0.015353	4.84	51.14	98.66	0.75
US Route 1-DS08	17775		50-Year	158.06	199.40	201.14	201.14	201.45	0.016953	5.43	64.57	102.91	0.80
US Route 1-DS08	17775		100-Year	203.58	199.40	201.67	201.27	201.79	0.005736	3.89	122.30	117.68	0.49
US Route 1-DS08	17775		500-Year	347.79	199.40	202.86	201.59	202.91	0.001798	2.99	280.86	148.63	0.30
US Route 1-DS07	17550	FEMA "N"	2-Year	39.62	197.38	199.34		199.37	0.001536	1.58	52.35	155.89	0.24
US Route 1-DS07	17550	FEMA "N"	10-Year	88.95	197.38	199.96		199.97	0.000734	1.39	197.71	283.66	0.17
US Route 1-DS07	17550	FEMA "N"	25-Year	124.82	197.38	200.47		200.47	0.000316	1.06	349.37	303.40	0.12
US Route 1-DS07	17550	FEMA "N"	50-Year	163.98	197.38	201.09		201.09	0.000165	0.89	545.53	353.29	0.09
US Route 1-DS07	17550	FEMA "N"	100-Year	195.63	197.38	201.69		201.69	0.000087	0.73	759.34	363.22	0.07
US Route 1-DS07	17550	FEMA "N"	500-Year	330.99	197.38	202.85		202.85	0.000064	0.75	1199.51	394.29	0.06
US Route 1-DS07	17395		2-Year	39.62	197.60	198.77	198.45	198.88	0.008596	2.66	14.97	19.62	0.52
US Route 1-DS07	17395		10-Year	88.95	197.60	199.65	198.87	199.75	0.003141	2.62	39.89	37.28	0.35
US Route 1-DS07	17395		25-Year	124.82	197.60	200.30	199.12	200.37	0.001654	2.36	71.77	59.03	0.27
US Route 1-DS07	17395		50-Year	163.98	197.60	200.98	199.36	201.04	0.000888	2.05	115.93	69.34	0.21
US Route 1-DS07	17395		100-Year	195.63	197.60	201.62	199.53	201.66	0.000557	1.84	166.62	91.26	0.17
US Route 1-DS07	17395		500-Year	330.99	197.60	202.83	200.17	202.84	0.000158	1.19	449.94	310.09	0.09
US Route 1-DS07	17350		2-Year	39.62	196.61	198.72	197.58	198.74	0.000782	1.13	36.92	34.49	0.17
US Route 1-DS07	17350		10-Year	88.95	196.61	199.62	198.00	199.65	0.000686	1.46	73.92	51.72	0.17
US Route 1-DS07	17350		25-Year	124.82	196.61	200.27	198.23	200.30	0.000530	1.52	105.51	60.60	0.16
US Route 1-DS07	17350		50-Year	163.98	196.61	200.96	198.42	201.00	0.000418	1.55	139.04	65.66	0.14
US Route 1-DS07	17350		100-Year	195.63	196.61	201.60	198.57	201.63	0.000329	1.53	169.85	98.41	0.13
US Route 1-DS07	17350		500-Year	330.99	196.61	202.82	199.11	202.83	0.000121	1.09	454.98	301.10	0.08
US Route 1-DS07	17302.53 Vineyard Ln			Culvert									

Deadman Brook Recommended Model

HEC-RAS Plan: Proposed (Continued)

Reach	River Sta		Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
US Route 1-DS07	17230	FEMA "M"	2-Year	39.62	195.99	198.64	197.28	198.67	0.000793	1.41	43.13	50.13	0.18
US Route 1-DS07	17230	FEMA "M"	10-Year	88.95	195.99	199.31	197.84	199.36	0.001065	1.98	78.81	63.90	0.22
US Route 1-DS07	17230	FEMA "M"	25-Year	124.82	195.99	199.65	198.29	199.71	0.001222	2.30	104.42	71.01	0.24
US Route 1-DS07	17230	FEMA "M"	50-Year	163.98	195.99	199.89	198.56	199.97	0.001485	2.67	121.97	75.94	0.26
US Route 1-DS07	17230	FEMA "M"	100-Year	195.63	195.99	200.06	198.74	200.15	0.001675	2.94	134.89	79.03	0.28
US Route 1-DS07	17230	FEMA "M"	500-Year	330.99	195.99	200.58	199.25	200.73	0.002440	3.90	177.59	84.57	0.35
US Route 1-DS07	17000		2-Year	39.62	196.80	197.94		198.14	0.017838	3.60	11.08	16.08	0.73
US Route 1-DS07	17000		10-Year	88.95	196.80	198.68		198.84	0.006754	3.51	41.21	68.49	0.51
US Route 1-DS07	17000		25-Year	124.82	196.80	199.14		199.26	0.003928	3.20	85.18	148.49	0.40
US Route 1-DS07	17000		50-Year	163.98	196.80	199.26		199.41	0.004902	3.72	101.06	167.17	0.46
US Route 1-DS07	17000		100-Year	195.63	196.80	199.40		199.55	0.004822	3.86	121.23	195.34	0.46
US Route 1-DS07	17000		500-Year	330.99	196.80	199.80		199.97	0.005180	4.47	205.38	215.11	0.49
US Route 1-DS06	16785	FEMA "L"	2-Year	46.55	194.63	197.76		197.78	0.000590	1.25	82.89	114.12	0.15
US Route 1-DS06	16785	FEMA "L"	10-Year	129.79	194.63	198.41		198.44	0.001021	1.94	168.51	146.51	0.20
US Route 1-DS06	16785	FEMA "L"	25-Year	186.07	194.63	198.94		198.96	0.000797	1.92	251.78	167.65	0.18
US Route 1-DS06	16785	FEMA "L"	50-Year	223.91	194.63	198.97		199.00	0.001094	2.27	257.27	168.95	0.22
US Route 1-DS06	16785	FEMA "L"	100-Year	259.28	194.63	199.06		199.10	0.001292	2.50	272.21	175.01	0.24
US Route 1-DS06	16785	FEMA "L"	500-Year	365.48	194.63	199.30		199.37	0.001835	3.12	317.85	196.25	0.28
US Route 1-DS06	16605		2-Year	46.55	196.80	197.60		197.61	0.001500	0.84	55.49	104.49	0.20
US Route 1-DS06	16605		10-Year	129.79	196.80	198.26		198.27	0.000762	1.02	138.89	226.05	0.17
US Route 1-DS06	16605		25-Year	186.07	196.80	198.87		198.88	0.000286	0.83	282.47	280.66	0.11
US Route 1-DS06	16605		50-Year	223.91	196.80	198.87		198.88	0.000411	0.99	283.47	280.88	0.13
US Route 1-DS06	16605		100-Year	259.28	196.80	198.95		198.96	0.000454	1.07	304.89	285.50	0.14
US Route 1-DS06	16605		500-Year	365.48	196.80	199.17		199.19	0.000525	1.24	370.51	296.01	0.15
US Route 1-DS06	16395	FEMA "K"	2-Year	46.55	195.80	196.48	196.48	196.71	0.037248	3.80	12.36	29.37	0.99
US Route 1-DS06	16395	FEMA "K"	10-Year	129.79	195.80	198.18	196.99	198.18	0.000261	0.89	238.48	330.84	0.11
US Route 1-DS06	16395	FEMA "K"	25-Year	186.07	195.80	198.85	197.15	198.85	0.000051	0.47	576.19	374.74	0.05
US Route 1-DS06	16395	FEMA "K"	50-Year	223.91	195.80	198.85	197.24	198.85	0.000074	0.57	574.66	374.57	0.06
US Route 1-DS06	16395	FEMA "K"	100-Year	259.28	195.80	198.92	197.30	198.92	0.000086	0.62	601.80	377.61	0.06
US Route 1-DS06	16395	FEMA "K"	500-Year	365.48	195.80	199.14	197.44	199.14	0.000112	0.75	688.79	416.32	0.07
US Route 1-DS06	16345		2-Year	46.55	191.60	196.49	192.94	196.49	0.000067	0.55	90.32	35.39	0.06
US Route 1-DS06	16345		10-Year	129.79	191.60	198.16	193.69	198.18	0.000101	0.91	197.89	205.91	0.07
US Route 1-DS06	16345		25-Year	186.07	191.60	198.83	194.06	198.85	0.000115	1.06	268.19	233.05	0.08
US Route 1-DS06	16345		50-Year	223.91	191.60	198.82	194.28	198.84	0.000168	1.28	266.86	231.66	0.10
US Route 1-DS06	16345		100-Year	259.28	191.60	198.89	194.47	198.91	0.000164	1.28	432.69	239.80	0.10
US Route 1-DS06	16345		500-Year	365.48	191.60	199.10	194.96	199.13	0.000265	1.66	483.25	395.44	0.12
US Route 1-DS06	16305	Vineyard Ln		Culvert									
US Route 1-DS06	16265		2-Year	46.55	191.71	196.38	193.43	196.40	0.000197	1.10	44.19	14.85	0.10
US Route 1-DS06	16265		10-Year	129.79	191.71	197.48	194.34	197.55	0.000587	2.23	62.75	97.54	0.18
US Route 1-DS06	16265		25-Year	186.07	191.71	197.97	194.81	198.08	0.000848	2.86	73.21	220.88	0.22
US Route 1-DS06	16265		50-Year	223.91	191.71	198.17	195.09	198.29	0.000982	3.15	108.78	310.09	0.23
US Route 1-DS06	16265		100-Year	259.28	191.71	198.32	195.35	198.42	0.000909	3.08	141.47	391.54	0.23
US Route 1-DS06	16265		500-Year	365.48	191.71	198.65	195.99	198.73	0.000762	2.93	218.77	455.67	0.21
US Route 1-DS06	16245		2-Year	46.55	192.80	196.38	193.72	196.39	0.000216	0.90	51.96	147.62	0.09
US Route 1-DS06	16245		10-Year	129.79	192.80	197.51	194.43	197.51	0.000136	0.85	307.88	304.87	0.07
US Route 1-DS06	16245		25-Year	186.07	192.80	198.02	194.81	198.03	0.000071	0.65	540.28	411.47	0.05
US Route 1-DS06	16245		50-Year	223.91	192.80	198.23	195.03	198.23	0.000066	0.65	625.90	437.17	0.05
US Route 1-DS06	16245		100-Year	259.28	192.80	198.37	195.23	198.37	0.000066	0.66	688.90	448.50	0.05
US Route 1-DS06	16245		500-Year	365.48	192.80	198.69	195.74	198.69	0.000070	0.71	835.78	474.55	0.05
US Route 1-DS06	16230	Driveway		Culvert									
US Route 1-DS06	16215		2-Year	46.55	192.30	196.30	193.22	196.32	0.000263	1.08	43.03	106.10	0.10
US Route 1-DS06	16215		10-Year	129.79	192.30	197.41	194.10	197.42	0.000233	1.13	208.86	310.05	0.09
US Route 1-DS06	16215		25-Year	186.07	192.30	198.02	194.56	198.02	0.000085	0.74	413.33	372.40	0.06
US Route 1-DS06	16215		50-Year	223.91	192.30	198.22	194.83	198.22	0.000077	0.73	490.82	395.61	0.06
US Route 1-DS06	16215		100-Year	259.28	192.30	198.36	195.08	198.37	0.000073	0.72	549.97	408.13	0.05
US Route 1-DS06	16215		500-Year	365.48	192.30	198.68	195.73	198.68	0.000075	0.76	682.73	434.22	0.06
US Route 1-DS06	16170	FEMA "J"	2-Year	46.55	195.40	196.13	196.13	196.25	0.043956	2.83	16.46	133.80	0.97
US Route 1-DS06	16170	FEMA "J"	10-Year	129.79	195.40	197.40	196.37	197.41	0.000204	0.61	228.00	255.67	0.09
US Route 1-DS06	16170	FEMA "J"	25-Year	186.07	195.40	198.01	196.52	198.02	0.000081	0.49	393.68	291.71	0.06
US Route 1-DS06	16170	FEMA "J"	50-Year	223.91	195.40	198.21	196.61	198.22	0.000078	0.51	455.58	322.33	0.06
US Route 1-DS06	16170	FEMA "J"	100-Year	259.28	195.40	198.36	196.70	198.37	0.000078	0.53	504.61	346.67	0.06
US Route 1-DS06	16170	FEMA "J"	500-Year	365.48	195.40	198.68	196.70	198.68	0.000085	0.60	622.02	397.28	0.06
US Route 1-DS06	15975		2-Year	46.55	194.40	196.09		196.09	0.000060	0.31	201.19	259.03	0.05
US Route 1-DS06	15975		10-Year	129.79	194.40	197.39		197.40	0.000030	0.34	632.90	396.91	0.04
US Route 1-DS06	15975		25-Year	186.07	194.40	198.01		198.01	0.000025	0.36	891.22	448.00	0.04
US Route 1-DS06	15975		50-Year	223.91	194.40	198.21		198.21	0.000027	0.39	981.94	453.00	0.04
US Route 1-DS06	15975		100-Year	259.28	194.40	198.35		198.36	0.000030	0.42	1048.52	456.66	0.04
US Route 1-DS06	15975		500-Year	365.48	194.40	198.67		198.67	0.000041	0.52	1192.40	464.47	0.05
US Route 1-DS06	15780		2-Year	46.55	193.80	196.01	194.94	196.06	0.001418	1.87	49.13	140.57	0.24

Deadman Brook Recommended Model

HEC-RAS Plan: Proposed (Continued)

Reach	River Sta		Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
US Route 1-DS06	15780		10-Year	129.79	193.80	197.37	195.70	197.38	0.000322	1.28	279.18	204.87	0.13
US Route 1-DS06	15780		25-Year	186.07	193.80	197.99	196.28	198.00	0.000234	1.23	417.86	221.56	0.11
US Route 1-DS06	15780		50-Year	223.91	193.80	198.19	196.37	198.20	0.000256	1.33	463.21	270.40	0.12
US Route 1-DS06	15780		100-Year	259.28	193.80	198.33	196.45	198.34	0.000282	1.43	497.57	288.56	0.12
US Route 1-DS06	15780		500-Year	365.48	193.80	198.63	196.65	198.65	0.000378	1.73	574.47	326.88	0.14
US Route 1-DS06	15720		2-Year	46.55	192.24	195.98	193.68	196.00	0.000404	1.24	46.49	31.87	0.13
US Route 1-DS06	15720		10-Year	129.79	192.24	197.30	194.54	197.35	0.000596	1.94	138.80	161.36	0.17
US Route 1-DS06	15720		25-Year	186.07	192.24	197.95	195.00	197.97	0.000349	1.64	298.43	168.83	0.13
US Route 1-DS06	15720		50-Year	223.91	192.24	198.15	195.14	198.17	0.000370	1.74	358.63	352.77	0.14
US Route 1-DS06	15720		100-Year	259.28	192.24	198.30	195.68	198.32	0.000376	1.78	410.67	364.31	0.14
US Route 1-DS06	15720		500-Year	365.48	192.24	198.60	196.22	198.62	0.000412	1.94	525.48	388.56	0.15
US Route 1-DS06	15680	Half Mile Com		Culvert									
US Route 1-DS06	15640		2-Year	46.55	193.03	195.92	193.97	195.94	0.000405	1.16	43.15	23.49	0.13
US Route 1-DS06	15640		10-Year	129.79	193.03	197.24	194.68	197.29	0.000629	1.92	109.26	120.03	0.17
US Route 1-DS06	15640		25-Year	186.07	193.03	197.92	195.06	197.96	0.000474	1.86	202.40	153.15	0.15
US Route 1-DS06	15640		50-Year	223.91	193.03	198.12	195.27	198.16	0.000563	2.08	244.03	260.33	0.17
US Route 1-DS06	15640		100-Year	259.28	193.03	198.27	195.48	198.31	0.000554	2.11	284.62	283.82	0.17
US Route 1-DS06	15640		500-Year	365.48	193.03	198.58	196.01	198.62	0.000553	2.20	380.06	324.47	0.17
US Route 1-DS06	15590	FEMA "I"	2-Year	46.55	194.40	195.79	195.33	195.87	0.004480	2.23	23.83	31.88	0.39
US Route 1-DS06	15590	FEMA "I"	10-Year	129.79	194.40	197.20	195.92	197.24	0.000997	1.88	132.68	107.35	0.21
US Route 1-DS06	15590	FEMA "I"	25-Year	186.07	194.40	197.90	196.23	197.93	0.000606	1.73	217.54	137.17	0.17
US Route 1-DS06	15590	FEMA "I"	50-Year	223.91	194.40	198.09	196.35	198.12	0.000645	1.86	245.28	156.82	0.18
US Route 1-DS06	15590	FEMA "I"	100-Year	259.28	194.40	198.24	196.49	198.27	0.000685	1.97	269.90	181.31	0.19
US Route 1-DS06	15590	FEMA "I"	500-Year	365.48	194.40	198.54	196.80	198.58	0.000818	2.28	332.33	231.94	0.21
US Route 1-DS06	15405		2-Year	46.55	193.80	195.60		195.61	0.000635	1.13	83.55	177.61	0.16
US Route 1-DS06	15405		10-Year	129.79	193.80	197.18		197.18	0.000130	0.81	402.57	230.10	0.08
US Route 1-DS06	15405		25-Year	186.07	193.80	197.88		197.88	0.000106	0.84	576.50	266.45	0.07
US Route 1-DS06	15405		50-Year	223.91	193.80	198.07		198.07	0.000123	0.93	627.85	275.17	0.08
US Route 1-DS06	15405		100-Year	259.28	193.80	198.21		198.21	0.000140	1.01	667.32	280.18	0.09
US Route 1-DS06	15405		500-Year	365.48	193.80	198.50		198.51	0.000203	1.28	749.59	290.35	0.11
US Route 1-DS06	15215	FEMA "H"	2-Year	46.55	192.29	195.50		195.52	0.000250	0.98	55.21	34.56	0.11
US Route 1-DS06	15215	FEMA "H"	10-Year	129.79	192.29	197.10		197.13	0.000299	1.47	133.29	64.79	0.13
US Route 1-DS06	15215	FEMA "H"	25-Year	186.07	192.29	197.81		197.84	0.000290	1.61	181.48	70.46	0.13
US Route 1-DS06	15215	FEMA "H"	50-Year	223.91	192.29	197.98		198.02	0.000355	1.82	193.90	72.83	0.14
US Route 1-DS06	15215	FEMA "H"	100-Year	259.28	192.29	198.11		198.15	0.000419	2.01	208.12	124.11	0.16
US Route 1-DS06	15215	FEMA "H"	500-Year	365.48	192.29	198.34		198.42	0.000635	2.55	240.83	161.48	0.19
US Route 1-DS06	15180		2-Year	46.55	191.25	195.49	193.16	195.51	0.000339	1.06	45.28	17.29	0.11
US Route 1-DS06	15180		10-Year	129.79	191.25	197.07	193.86	197.11	0.000549	1.77	92.81	112.38	0.15
US Route 1-DS06	15180		25-Year	186.07	191.25	197.79	194.23	197.83	0.000401	1.67	209.41	248.18	0.13
US Route 1-DS06	15180		50-Year	223.91	191.25	197.97	194.46	198.00	0.000419	1.75	243.70	282.05	0.13
US Route 1-DS06	15180		100-Year	259.28	191.25	198.10	194.65	198.13	0.000441	1.82	269.44	351.51	0.14
US Route 1-DS06	15180		500-Year	365.48	191.25	198.34	195.21	198.38	0.000603	2.19	336.04	385.08	0.16
US Route 1-DS06	15137.5	Silent Grove N		Culvert									
US Route 1-DS06	15100		2-Year	46.55	190.78	195.42	191.98	195.42	0.000053	0.56	86.24	29.28	0.05
US Route 1-DS06	15100		10-Year	129.79	190.78	196.57	192.67	196.59	0.000154	1.14	138.31	97.15	0.09
US Route 1-DS06	15100		25-Year	186.07	190.78	197.80	193.01	197.80	0.000060	0.82	368.78	316.80	0.06
US Route 1-DS06	15100		50-Year	223.91	190.78	197.98	193.23	197.99	0.000065	0.87	432.46	369.80	0.06
US Route 1-DS06	15100		100-Year	259.28	190.78	198.11	193.43	198.12	0.000069	0.91	483.35	395.91	0.06
US Route 1-DS06	15100		500-Year	365.48	190.78	198.38	193.95	198.39	0.000084	1.03	593.41	430.33	0.07
US Route 1-DS06	15050		2-Year	46.55	191.92	195.41		195.41	0.000213	0.78	60.68	32.20	0.09
US Route 1-DS06	15050		10-Year	129.79	191.92	196.55		196.57	0.000341	1.29	115.80	88.19	0.13
US Route 1-DS06	15050		25-Year	186.07	191.92	197.79		197.80	0.000061	0.68	418.42	378.41	0.06
US Route 1-DS06	15050		50-Year	223.91	191.92	197.98		197.98	0.000059	0.69	490.96	403.34	0.06
US Route 1-DS06	15050		100-Year	259.28	191.92	198.11		198.12	0.000073	0.78	571.99	664.45	0.06
US Route 1-DS06	15050		500-Year	365.48	191.92	198.38		198.38	0.000072	0.81	753.40	695.32	0.06
US Route 1-DS05	14770		2-Year	83.91	193.00	195.24		195.28	0.000981	1.62	65.38	105.47	0.20
US Route 1-DS05	14770		10-Year	192.59	193.00	196.51		196.52	0.000143	0.86	287.99	209.33	0.08
US Route 1-DS05	14770		25-Year	263.22	193.00	197.78		197.79	0.000036	0.54	599.05	295.58	0.05
US Route 1-DS05	14770		50-Year	314.35	193.00	197.97		197.97	0.000041	0.59	654.92	310.73	0.05
US Route 1-DS05	14770		100-Year	360.73	193.00	198.10		198.10	0.000046	0.64	695.67	321.01	0.05
US Route 1-DS05	14770		500-Year	469.13	193.00	198.36		198.37	0.000057	0.74	782.85	341.74	0.06
US Route 1-DS05	14590		2-Year	83.91	193.20	194.49	194.38	194.77	0.019321	4.36	21.66	31.41	0.80
US Route 1-DS05	14590		10-Year	192.59	193.20	196.43		196.46	0.000807	1.89	181.69	169.16	0.20
US Route 1-DS05	14590		25-Year	263.22	193.20	197.77		197.77	0.000122	0.95	433.10	212.28	0.08
US Route 1-DS05	14590		50-Year	314.35	193.20	197.95		197.96	0.000136	1.03	472.41	219.43	0.09
US Route 1-DS05	14590		100-Year	360.73	193.20	198.08		198.09	0.000151	1.11	500.49	223.79	0.09
US Route 1-DS05	14590		500-Year	469.13	193.20	198.33		198.35	0.000185	1.27	559.18	231.77	0.10
US Route 1-DS05	14390		2-Year	83.91	192.80	194.14	193.38	194.16	0.001019	1.15	74.45	70.09	0.19
US Route 1-DS05	14390		10-Year	192.59	192.80	196.39	193.66	196.40	0.000127	0.84	268.16	143.98	0.08
US Route 1-DS05	14390		25-Year	263.22	192.80	197.75	193.82	197.76	0.000067	0.76	434.60	178.44	0.06

Deadman Brook Recommended Model

HEC-RAS Plan: Proposed (Continued)

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
US Route 1-DS05	14390	50-Year	314.35	192.80	197.93	193.92	197.94	0.000082	0.87	457.11	182.08	0.07
US Route 1-DS05	14390	100-Year	360.73	192.80	198.05	194.01	198.06	0.000099	0.96	472.69	184.09	0.08
US Route 1-DS05	14390	500-Year	469.13	192.80	198.30	194.20	198.32	0.000139	1.18	504.47	186.64	0.09
US Route 1-DS05	14325	2-Year	83.91	190.83	192.95	192.95	193.73	0.035473	7.06	11.88	7.69	1.00
US Route 1-DS05	14325	10-Year	192.59	190.83	196.00	194.15	196.29	0.004220	4.49	54.41	39.40	0.38
US Route 1-DS05	14325	25-Year	263.22	190.83	197.72	194.81	197.74	0.000380	1.69	274.42	175.86	0.12
US Route 1-DS05	14325	50-Year	314.35	190.83	197.89	195.28	197.92	0.000417	1.81	300.34	185.15	0.13
US Route 1-DS05	14325	100-Year	360.73	190.83	198.01	195.64	198.04	0.000465	1.93	318.08	223.76	0.14
US Route 1-DS05	14325	500-Year	469.13	190.83	198.24	196.66	198.29	0.000572	2.19	354.19	227.29	0.15
US Route 1-DS05	14295 Cross Hwy		Culvert									
US Route 1-DS05	14265	2-Year	83.91	190.85	192.99	192.05	193.11	0.002172	2.87	29.20	40.58	0.38
US Route 1-DS05	14265	10-Year	192.59	190.85	195.50	192.81	195.51	0.000119	1.11	179.42	52.97	0.10
US Route 1-DS05	14265	25-Year	263.22	190.85	196.93	193.21	196.94	0.000070	1.05	275.12	87.36	0.08
US Route 1-DS05	14265	50-Year	314.35	190.85	197.11	193.46	197.13	0.000087	1.19	291.44	91.47	0.09
US Route 1-DS05	14265	100-Year	360.73	190.85	197.19	193.68	197.22	0.000108	1.34	298.97	93.34	0.10
US Route 1-DS05	14265	500-Year	469.13	190.85	197.41	194.15	197.45	0.000156	1.65	320.24	118.42	0.12
US Route 1-DS05	14200	2-Year	83.91	190.12	192.84	191.52	192.98	0.001694	3.07	28.66	34.45	0.33
US Route 1-DS05	14200	10-Year	192.59	190.12	195.47	192.59	195.50	0.000158	1.45	140.79	51.48	0.12
US Route 1-DS05	14200	25-Year	263.22	190.12	196.92	193.02	196.94	0.000081	1.24	252.81	67.68	0.09
US Route 1-DS05	14200	50-Year	314.35	190.12	197.10	193.31	197.12	0.000103	1.42	265.55	85.95	0.10
US Route 1-DS05	14200	100-Year	360.73	190.12	197.18	193.56	197.21	0.000129	1.60	271.69	91.57	0.11
US Route 1-DS05	14200	500-Year	469.13	190.12	197.39	194.10	197.44	0.000189	1.98	290.50	106.97	0.13
US Route 1-DS05	14180 Driveway Bridge		Bridge									
US Route 1-DS05	14160	2-Year	83.91	190.12	192.26	191.67	192.67	0.009479	5.11	16.42	7.67	0.62
US Route 1-DS05	14160	10-Year	192.59	190.12	192.82	192.81	194.16	0.025898	9.29	20.73	7.67	1.00
US Route 1-DS05	14160	25-Year	263.22	190.12	193.44	193.44	195.10	0.027585	10.35	25.43	7.67	1.00
US Route 1-DS05	14160	50-Year	314.35	190.12	193.85	193.85	195.72	0.028582	10.98	28.63	7.67	1.00
US Route 1-DS05	14160	100-Year	360.73	190.12	194.22	194.22	196.26	0.029357	11.47	31.44	7.67	1.00
US Route 1-DS05	14160	500-Year	469.13	190.12	196.14	196.14	196.61	0.006273	6.44	99.84	101.31	0.46
US Route 1-DS05	14125 FEMA "G"	2-Year	83.91	190.20	191.64	191.64	192.16	0.014786	5.86	15.07	16.35	0.93
US Route 1-DS05	14125 FEMA "G"	10-Year	192.59	190.20	192.44	192.44	193.18	0.011621	7.24	29.27	22.76	0.89
US Route 1-DS05	14125 FEMA "G"	25-Year	263.22	190.20	192.82	192.82	193.67	0.010975	7.88	37.25	25.71	0.89
US Route 1-DS05	14125 FEMA "G"	50-Year	314.35	190.20	193.06	193.06	193.99	0.010607	8.26	42.79	27.66	0.89
US Route 1-DS05	14125 FEMA "G"	100-Year	360.73	190.20	193.27	193.27	194.25	0.010252	8.54	47.78	29.47	0.89
US Route 1-DS05	14125 FEMA "G"	500-Year	469.13	190.20	193.61	193.61	194.59	0.009463	8.85	63.15	32.45	0.87
US Route 1-DS05	13995	2-Year	83.91	189.80	190.98		191.01	0.000846	1.28	66.39	67.11	0.22
US Route 1-DS05	13995	10-Year	192.59	189.80	191.51		191.57	0.001099	1.91	103.32	72.60	0.27
US Route 1-DS05	13995	25-Year	263.22	189.80	191.76		191.83	0.001247	2.24	121.31	75.47	0.29
US Route 1-DS05	13995	50-Year	314.35	189.80	191.90		192.00	0.001350	2.45	132.68	77.41	0.31
US Route 1-DS05	13995	100-Year	360.73	189.80	192.03		192.13	0.001435	2.63	142.35	79.11	0.32
US Route 1-DS05	13995	500-Year	469.13	189.80	192.28		192.41	0.001620	3.02	162.72	82.84	0.35
US Route 1-DS05	13845	2-Year	83.91	189.80	190.56		190.69	0.008291	2.84	29.58	46.97	0.63
US Route 1-DS05	13845	10-Year	192.59	189.80	190.98		191.19	0.007478	3.76	54.23	73.41	0.65
US Route 1-DS05	13845	25-Year	263.22	189.80	191.19		191.43	0.006849	4.07	70.56	82.54	0.64
US Route 1-DS05	13845	50-Year	314.35	189.80	191.34		191.59	0.006240	4.18	83.26	89.21	0.62
US Route 1-DS05	13845	100-Year	360.73	189.80	191.46		191.71	0.005902	4.29	94.10	94.54	0.62
US Route 1-DS05	13845	500-Year	469.13	189.80	191.71		191.98	0.005199	4.47	119.84	106.11	0.59
US Route 1-DS05	13640	2-Year	83.91	186.60	187.76		188.19	0.018151	5.30	16.69	22.85	0.99
US Route 1-DS05	13640	10-Year	192.59	186.60	188.44		189.09	0.013530	6.65	36.96	39.33	0.93
US Route 1-DS05	13640	25-Year	263.22	186.60	188.79		189.52	0.012073	7.18	52.47	49.62	0.91
US Route 1-DS05	13640	50-Year	314.35	186.60	188.99		189.79	0.011756	7.58	63.17	55.62	0.92
US Route 1-DS05	13640	100-Year	360.73	186.60	189.19		190.02	0.011026	7.79	75.01	64.06	0.90
US Route 1-DS05	13640	500-Year	469.13	186.60	189.59		190.46	0.009895	8.20	103.98	81.31	0.88
US Route 1-DS05	13440	2-Year	83.91	184.00	185.53		185.76	0.008268	4.23	25.93	57.87	0.69
US Route 1-DS05	13440	10-Year	192.59	184.00	186.37		186.45	0.001798	2.84	97.80	117.80	0.35
US Route 1-DS05	13440	25-Year	263.22	184.00	186.54		186.64	0.002032	3.19	119.71	132.79	0.38
US Route 1-DS05	13440	50-Year	314.35	184.00	186.66		186.76	0.002146	3.39	134.97	142.30	0.40
US Route 1-DS05	13440	100-Year	360.73	184.00	186.75		186.86	0.002208	3.53	148.89	150.44	0.40
US Route 1-DS05	13440	500-Year	469.13	184.00	186.95		187.07	0.002306	3.81	180.15	167.31	0.42
US Route 1-DS05	13385	2-Year	83.91	182.68	185.37		184.48	0.002240	3.21	41.24	50.40	0.34
US Route 1-DS05	13385	10-Year	192.59	182.68	186.29		185.53	0.001338	3.01	121.16	122.03	0.28
US Route 1-DS05	13385	25-Year	263.22	182.68	186.44		185.82	0.001729	3.52	140.02	129.81	0.32
US Route 1-DS05	13385	50-Year	314.35	182.68	186.53		186.64	0.001988	3.83	152.20	134.59	0.34
US Route 1-DS05	13385	100-Year	360.73	182.68	186.61		186.73	0.002184	4.08	163.16	138.75	0.36
US Route 1-DS05	13385	500-Year	469.13	182.68	186.77		186.93	0.002619	4.58	186.28	147.69	0.40
US Route 1-DS05	13375.44 Footbridge		Bridge									
US Route 1-DS05	13360	2-Year	83.91	182.20	184.51		183.63	0.002228	3.03	29.23	29.75	0.36
US Route 1-DS05	13360	10-Year	192.59	182.20	185.76		184.45	0.000789	2.45	121.02	122.77	0.23
US Route 1-DS05	13360	25-Year	263.22	182.20	185.97		184.80	0.000908	2.73	147.82	131.60	0.25

Deadman Brook Recommended Model

HEC-RAS Plan: Proposed (Continued)

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
US Route 1-DS05	13360	50-Year	314.35	182.20	186.10	185.05	186.18	0.001023	2.97	166.41	143.97	0.27
US Route 1-DS05	13360	100-Year	360.73	182.20	186.22	185.46	186.30	0.001068	3.10	183.07	151.33	0.28
US Route 1-DS05	13360	500-Year	469.13	182.20	186.43	185.67	186.52	0.001194	3.39	216.40	165.07	0.30
US Route 1-DS05	13300	2-Year	83.91	181.40	184.44	183.20	184.51	0.001096	2.46	40.38	40.17	0.25
US Route 1-DS05	13300	10-Year	192.59	181.40	185.74	184.14	185.77	0.000338	1.74	159.55	107.99	0.15
US Route 1-DS05	13300	25-Year	263.22	181.40	185.94	184.43	185.98	0.000436	2.03	181.69	111.04	0.17
US Route 1-DS05	13300	50-Year	314.35	181.40	186.07	184.63	186.11	0.000517	2.25	196.07	117.01	0.18
US Route 1-DS05	13300	100-Year	360.73	181.40	186.17	185.07	186.23	0.000596	2.46	208.93	124.90	0.20
US Route 1-DS05	13300	500-Year	469.13	181.40	186.37	185.22	186.44	0.000784	2.89	234.81	139.41	0.23
US Route 1-DS05	13287.5 Footbridge		Bridge									
US Route 1-DS05	13275	2-Year	83.91	181.40	184.41	182.96	184.45	0.000638	1.94	61.67	73.53	0.20
US Route 1-DS05	13275	10-Year	192.59	181.40	185.73	183.84	185.75	0.000206	1.43	207.21	148.99	0.12
US Route 1-DS05	13275	25-Year	263.22	181.40	185.93	184.10	185.95	0.000275	1.70	239.14	164.38	0.14
US Route 1-DS05	13275	50-Year	314.35	181.40	186.06	184.23	186.09	0.000310	1.84	260.41	168.40	0.15
US Route 1-DS05	13275	100-Year	360.73	181.40	186.17	184.68	186.20	0.000336	1.95	278.62	170.62	0.16
US Route 1-DS05	13275	500-Year	469.13	181.40	186.36	184.83	186.40	0.000408	2.21	312.74	174.71	0.18
US Route 1-DS05	13240	2-Year	83.91	181.20	184.40	183.02	184.43	0.000423	1.73	74.61	96.19	0.18
US Route 1-DS05	13240	10-Year	192.59	181.20	185.73	183.83	185.74	0.000126	1.22	233.32	133.03	0.11
US Route 1-DS05	13240	25-Year	263.22	181.20	185.93	183.99	185.94	0.000176	1.48	260.50	140.04	0.12
US Route 1-DS05	13240	50-Year	314.35	181.20	186.05	183.99	186.07	0.000212	1.66	278.46	145.33	0.14
US Route 1-DS05	13240	100-Year	360.73	181.20	186.16	183.99	186.18	0.000244	1.81	294.15	150.66	0.15
US Route 1-DS05	13240	500-Year	469.13	181.20	186.35	184.65	186.39	0.000324	2.14	324.35	160.42	0.17
US Route 1-DS05	13205	2-Year	83.91	179.03	184.39	180.97	184.42	0.000210	1.40	78.27	96.93	0.11
US Route 1-DS05	13205	10-Year	192.59	179.03	185.73	182.39	185.73	0.000085	1.04	277.12	150.21	0.07
US Route 1-DS05	13205	25-Year	263.22	179.03	185.92	183.00	185.94	0.000121	1.26	307.70	158.05	0.09
US Route 1-DS05	13205	50-Year	314.35	179.03	186.05	183.81	186.07	0.000147	1.41	327.85	162.93	0.10
US Route 1-DS05	13205	100-Year	360.73	179.03	186.16	184.05	186.17	0.000169	1.52	345.27	166.92	0.10
US Route 1-DS05	13205	500-Year	469.13	179.03	186.35	184.33	186.37	0.000224	1.79	378.23	174.20	0.12
US Route 1-DS05	13167.5 Melon Patch Ln		Culvert									
US Route 1-DS05	13130	2-Year	83.91	177.59	180.51	178.98	180.59	0.000813	2.23	37.68	21.93	0.25
US Route 1-DS05	13130	10-Year	192.59	177.59	181.46	179.73	181.67	0.001470	3.71	51.93	24.49	0.35
US Route 1-DS05	13130	25-Year	263.22	177.59	181.91	180.12	182.08	0.001364	3.43	79.66	25.69	0.32
US Route 1-DS05	13130	50-Year	314.35	177.59	182.16	180.39	182.38	0.001561	3.81	86.28	26.99	0.35
US Route 1-DS05	13130	100-Year	360.73	177.59	182.34	180.62	182.59	0.001774	4.16	91.17	28.15	0.37
US Route 1-DS05	13130	500-Year	469.13	177.59	182.68	181.12	183.03	0.002276	4.92	101.18	30.39	0.42
US Route 1-DS05	13010	2-Year	83.91	176.70	180.40	178.10	180.47	0.001048	2.32	41.84	29.64	0.21
US Route 1-DS05	13010	10-Year	192.59	176.70	181.31	179.12	181.45	0.001617	3.33	74.39	43.69	0.27
US Route 1-DS05	13010	25-Year	263.22	176.70	181.72	180.33	181.88	0.001809	3.73	94.43	65.71	0.29
US Route 1-DS05	13010	50-Year	314.35	176.70	181.96	180.66	182.14	0.001901	3.95	108.41	89.39	0.30
US Route 1-DS05	13010	100-Year	360.73	176.70	182.12	180.86	182.33	0.002107	4.24	118.39	101.99	0.32
US Route 1-DS05	13010	500-Year	469.13	176.70	182.45	181.20	182.68	0.002384	4.69	167.04	127.18	0.34
US Route 1-DS05	12997.5 Footbridge		Bridge									
US Route 1-DS05	12985	2-Year	83.91	176.70	180.37	178.09	180.45	0.000963	2.29	44.90	30.75	0.21
US Route 1-DS05	12985	10-Year	192.59	176.70	181.01	179.12	181.19	0.002136	3.80	69.95	47.75	0.32
US Route 1-DS05	12985	25-Year	263.22	176.70	181.32	180.14	181.55	0.002647	4.43	86.17	59.33	0.36
US Route 1-DS05	12985	50-Year	314.35	176.70	181.68	180.53	181.89	0.002252	4.30	113.95	94.86	0.34
US Route 1-DS05	12985	100-Year	360.73	176.70	181.87	180.86	182.08	0.002323	4.47	133.09	112.92	0.35
US Route 1-DS05	12985	500-Year	469.13	176.70	182.18	181.28	182.41	0.002384	4.71	172.20	130.84	0.35
US Route 1-DS05	12935	2-Year	83.91	178.80	180.19		180.34	0.005235	3.22	27.48	31.11	0.55
US Route 1-DS05	12935	10-Year	192.59	178.80	180.90		181.06	0.003226	3.54	70.61	81.32	0.47
US Route 1-DS05	12935	25-Year	263.22	178.80	181.25		181.40	0.002423	3.46	102.96	102.46	0.42
US Route 1-DS05	12935	50-Year	314.35	178.80	181.67		181.77	0.001402	2.97	151.10	135.13	0.33
US Route 1-DS05	12935	100-Year	360.73	178.80	181.86		181.96	0.001265	2.96	177.92	158.24	0.31
US Route 1-DS05	12935	500-Year	469.13	178.80	182.18		182.29	0.001243	3.15	225.73	187.53	0.32
US Route 1-DS05	12770	2-Year	83.91	178.00	179.87		179.94	0.001306	2.19	43.01	36.10	0.29
US Route 1-DS05	12770	10-Year	192.59	178.00	180.49		180.65	0.002068	3.38	69.50	50.78	0.39
US Route 1-DS05	12770	25-Year	263.22	178.00	180.84		181.02	0.002148	3.78	88.67	59.77	0.41
US Route 1-DS05	12770	50-Year	314.35	178.00	181.42		181.55	0.001220	3.25	126.96	69.44	0.32
US Route 1-DS05	12770	100-Year	360.73	178.00	181.62		181.76	0.001222	3.38	140.75	71.95	0.32
US Route 1-DS05	12770	500-Year	469.13	178.00	181.88		182.06	0.001471	3.89	159.91	75.30	0.36
US Route 1-DS05	12570	2-Year	83.91	176.20	178.40	178.40	179.25	0.013475	7.62	14.41	69.55	0.96
US Route 1-DS05	12570	10-Year	192.59	176.20	179.46	179.46	179.93	0.006556	7.10	85.47	106.25	0.72
US Route 1-DS05	12570	25-Year	263.22	176.20	180.34	179.70	180.54	0.002706	5.40	157.27	125.11	0.48
US Route 1-DS05	12570	50-Year	314.35	176.20	181.41	179.86	181.43	0.000227	1.86	386.63	168.41	0.15
US Route 1-DS05	12570	100-Year	360.73	176.20	181.60	179.99	181.63	0.000242	1.97	420.63	178.80	0.15
US Route 1-DS05	12570	500-Year	469.13	176.20	181.86	180.26	181.90	0.000310	2.31	469.05	192.62	0.17
US Route 1-DS05	12520	2-Year	83.91	173.26	176.28	174.90	176.43	0.002305	3.11	27.01	11.19	0.35
US Route 1-DS05	12520	10-Year	192.59	173.26	178.52	175.93	178.71	0.001677	3.49	55.78	22.36	0.31
US Route 1-DS05	12520	25-Year	263.22	173.26	180.29	176.47	180.43	0.000869	3.14	98.31	147.57	0.23

Deadman Brook Recommended Model

HEC-RAS Plan: Proposed (Continued)

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
US Route 1-DS05	12520	50-Year	314.35	173.26	181.38	176.81	181.42	0.000289	2.04	404.39	197.70	0.14
US Route 1-DS05	12520	100-Year	360.73	173.26	181.57	177.10	181.61	0.000310	2.15	444.15	209.64	0.14
US Route 1-DS05	12520	500-Year	469.13	173.26	181.82	177.74	181.88	0.000397	2.50	499.49	225.07	0.16
US Route 1-DS05	12477.5 North Ave		Culvert									
US Route 1-DS05	12435	2-Year	83.91	173.20	175.82	174.23	175.87	0.000680	1.84	45.58	68.00	0.21
US Route 1-DS05	12435	10-Year	192.59	173.20	177.10	174.87	177.22	0.000953	2.77	69.43	95.04	0.25
US Route 1-DS05	12435	25-Year	263.22	173.20	177.41	175.22	177.43	0.000221	1.12	234.73	96.30	0.13
US Route 1-DS05	12435	50-Year	314.35	173.20	177.64	175.44	177.67	0.000235	1.23	257.24	97.24	0.13
US Route 1-DS05	12435	100-Year	360.73	173.20	177.85	175.64	177.88	0.000242	1.31	277.53	98.09	0.13
US Route 1-DS05	12435	500-Year	469.13	173.20	178.30	176.07	178.33	0.000255	1.47	322.04	99.75	0.14
US Route 1-DS05	12400	2-Year	96.82	172.80	174.95	174.95	175.61	0.012408	6.89	17.04	14.31	0.90
US Route 1-DS05	12400	10-Year	220.55	172.80	175.93	175.93	176.88	0.010942	8.63	33.99	47.04	0.91
US Route 1-DS05	12400	25-Year	291.79	172.80	176.58	176.58	177.22	0.006313	7.54	81.98	81.40	0.72
US Route 1-DS05	12400	50-Year	348.32	172.80	176.78	176.78	177.45	0.006459	7.91	97.98	82.36	0.73
US Route 1-DS05	12400	100-Year	401.92	172.80	176.92	176.92	177.64	0.006814	8.34	110.01	83.08	0.75
US Route 1-DS05	12400	500-Year	533.22	172.80	177.26	177.26	178.07	0.007502	9.26	138.15	85.65	0.80
US Route 1-DS05	12190	2-Year	96.82	169.00	170.49	170.24	170.81	0.008420	4.58	23.11	22.80	0.71
US Route 1-DS05	12190	10-Year	220.55	169.00	171.12	171.00	171.81	0.010850	6.79	39.42	28.39	0.86
US Route 1-DS05	12190	25-Year	291.79	169.00	171.38	171.34	172.28	0.012200	7.83	46.92	30.24	0.93
US Route 1-DS05	12190	50-Year	348.32	169.00	171.59	171.59	172.62	0.012484	8.43	53.50	31.78	0.96
US Route 1-DS05	12190	100-Year	401.92	169.00	171.82	171.82	172.93	0.011931	8.76	61.07	33.46	0.95
US Route 1-DS05	12190	500-Year	533.22	169.00	172.30	172.30	173.61	0.011643	9.66	77.89	38.43	0.97
US Route 1-DS05	11990 FEMA "F"	2-Year	96.82	166.48	167.83	167.83	168.20	0.020571	4.87	19.89	27.62	1.01
US Route 1-DS05	11990 FEMA "F"	10-Year	220.55	166.48	168.36	168.36	168.93	0.017746	6.04	36.71	34.03	1.01
US Route 1-DS05	11990 FEMA "F"	25-Year	291.79	166.48	168.60	168.60	169.27	0.016752	6.58	44.92	35.62	1.01
US Route 1-DS05	11990 FEMA "F"	50-Year	348.32	166.48	168.78	168.78	169.51	0.015860	6.89	51.46	36.84	1.00
US Route 1-DS05	11990 FEMA "F"	100-Year	401.92	166.48	168.92	168.92	169.73	0.015571	7.24	56.82	38.26	1.00
US Route 1-DS05	11990 FEMA "F"	500-Year	533.22	166.48	169.26	169.26	170.23	0.014348	7.90	70.59	42.25	1.00
US Route 1-DS05	11795	2-Year	96.82	163.40	166.62		166.63	0.000050	0.64	165.02	63.34	0.06
US Route 1-DS05	11795	10-Year	220.55	163.40	167.29		167.31	0.000132	1.18	209.65	74.39	0.11
US Route 1-DS05	11795	25-Year	291.79	163.40	167.55		167.58	0.000182	1.45	230.42	82.03	0.13
US Route 1-DS05	11795	50-Year	348.32	163.40	167.76		167.80	0.000218	1.64	247.62	87.85	0.14
US Route 1-DS05	11795	100-Year	401.92	163.40	167.92		167.96	0.000253	1.81	262.05	92.46	0.15
US Route 1-DS05	11795	500-Year	533.22	163.40	168.29		168.36	0.000331	2.19	298.03	100.60	0.18
US Route 1-DS05	11745	2-Year	96.82	162.00	166.58	163.45	166.61	0.000343	1.73	114.14	79.06	0.14
US Route 1-DS05	11745	10-Year	220.55	162.00	167.16	164.61	167.27	0.000956	3.12	166.74	101.93	0.24
US Route 1-DS05	11745	25-Year	291.79	162.00	167.37	165.16	167.53	0.001343	3.80	189.36	110.44	0.29
US Route 1-DS05	11745	50-Year	348.32	162.00	167.54	165.61	167.73	0.001617	4.26	208.22	117.11	0.32
US Route 1-DS05	11745	100-Year	401.92	162.00	167.66	165.80	167.88	0.001906	4.69	222.74	122.00	0.35
US Route 1-DS05	11745	500-Year	533.22	162.00	167.95	166.68	168.25	0.002517	5.57	260.07	133.74	0.40
US Route 1-DS05	11734.52 Footbridge		Bridge									
US Route 1-DS05	11725	2-Year	96.82	162.00	166.55	163.45	166.59	0.000396	1.78	85.04	62.66	0.15
US Route 1-DS05	11725	10-Year	220.55	162.00	167.08	164.54	167.20	0.001107	3.20	125.69	90.73	0.25
US Route 1-DS05	11725	25-Year	291.79	162.00	167.26	165.24	167.43	0.001558	3.89	142.43	96.73	0.30
US Route 1-DS05	11725	50-Year	348.32	162.00	167.40	165.70	167.60	0.001851	4.31	156.80	101.59	0.33
US Route 1-DS05	11725	100-Year	401.92	162.00	167.50	166.00	167.74	0.002175	4.73	166.94	104.89	0.36
US Route 1-DS05	11725	500-Year	533.22	162.00	167.74	166.86	168.05	0.002789	5.52	193.74	113.15	0.41
US Route 1-DS05	11715	2-Year	96.82	161.68	166.54	163.69	166.59	0.000574	1.95	67.92	71.03	0.17
US Route 1-DS05	11715	10-Year	220.55	161.68	167.09	164.96	167.17	0.001024	2.84	115.00	99.28	0.23
US Route 1-DS05	11715	25-Year	291.79	161.68	167.28	166.44	167.38	0.001228	3.19	134.69	105.59	0.25
US Route 1-DS05	11715	50-Year	348.32	161.68	167.44	166.65	167.54	0.001305	3.36	151.50	110.69	0.26
US Route 1-DS05	11715	100-Year	401.92	161.68	167.54	166.79	167.66	0.001428	3.56	163.64	114.23	0.28
US Route 1-DS05	11715	500-Year	533.22	161.68	167.81	167.07	167.95	0.001591	3.89	195.07	122.93	0.30
US Route 1-DS05	11690 Driveway Bridge		Culvert									
US Route 1-DS05	11665	2-Year	96.82	161.77	166.19	163.28	166.19	0.000079	0.89	235.46	140.76	0.08
US Route 1-DS05	11665	10-Year	220.55	161.77	166.73	164.15	166.75	0.000204	1.56	315.26	153.45	0.13
US Route 1-DS05	11665	25-Year	291.79	161.77	166.96	164.47	166.99	0.000273	1.87	351.29	158.84	0.15
US Route 1-DS05	11665	50-Year	348.32	161.77	167.11	164.69	167.15	0.000329	2.09	375.97	162.75	0.17
US Route 1-DS05	11665	100-Year	401.92	161.77	167.23	164.95	167.28	0.000386	2.31	395.81	165.92	0.18
US Route 1-DS05	11665	500-Year	533.22	161.77	167.49	165.30	167.56	0.000524	2.78	439.49	172.68	0.21
US Route 1-DS05	11585	2-Year	96.82	162.60	166.19		166.19	0.000018	0.41	288.53	129.52	0.04
US Route 1-DS05	11585	10-Year	220.55	162.60	166.73		166.74	0.000055	0.80	369.12	168.44	0.07
US Route 1-DS05	11585	25-Year	291.79	162.60	166.96		166.97	0.000078	0.99	409.77	185.33	0.08
US Route 1-DS05	11585	50-Year	348.32	162.60	167.11		167.13	0.000098	1.13	441.74	221.89	0.09
US Route 1-DS05	11585	100-Year	401.92	162.60	167.23		167.25	0.000117	1.26	468.85	230.22	0.10
US Route 1-DS05	11585	500-Year	533.22	162.60	167.49		167.52	0.000167	1.56	530.01	247.98	0.13
US Route 1-DS05	11505	2-Year	96.82	160.19	166.18	163.08	166.19	0.000025	0.48	236.19	130.67	0.04
US Route 1-DS05	11505	10-Year	220.55	160.19	166.72	163.59	166.73	0.000066	0.86	299.59	146.54	0.07
US Route 1-DS05	11505	25-Year	291.79	160.19	166.95	163.82	166.97	0.000090	1.04	327.96	153.27	0.09

Deadman Brook Recommended Model

HEC-RAS Plan: Proposed (Continued)

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
US Route 1-DS05	11505	50-Year	348.32	160.19	167.10	163.99	167.12	0.000109	1.17	347.34	159.59	0.10
US Route 1-DS05	11505	100-Year	401.92	160.19	167.22	164.15	167.24	0.000130	1.29	363.05	165.17	0.10
US Route 1-DS05	11505	500-Year	533.22	160.19	167.47	164.51	167.51	0.000179	1.57	398.09	177.05	0.12
US Route 1-DS05	11480 Driveway Bridge		Bridge									
US Route 1-DS05	11455	2-Year	96.82	160.00	164.32	162.28	164.35	0.000314	1.58	104.52	160.61	0.15
US Route 1-DS05	11455	10-Year	220.55	160.00	164.93	163.18	164.96	0.000317	1.77	203.55	164.68	0.16
US Route 1-DS05	11455	25-Year	291.79	160.00	165.36	163.62	165.38	0.000235	1.64	276.68	175.40	0.14
US Route 1-DS05	11455	50-Year	348.32	160.00	165.80	164.38	165.82	0.000162	1.45	356.81	189.65	0.12
US Route 1-DS05	11455	100-Year	401.92	160.00	166.14	164.45	166.15	0.000132	1.37	424.53	204.23	0.11
US Route 1-DS05	11455	500-Year	533.22	160.00	166.74	164.59	166.75	0.000108	1.33	550.38	214.97	0.10
US Route 1-DS05	11400	2-Year	96.82	162.80	164.21		164.29	0.006055	3.49	54.91	154.36	0.52
US Route 1-DS05	11400	10-Year	220.55	162.80	164.89		164.93	0.000948	1.79	162.58	164.02	0.22
US Route 1-DS05	11400	25-Year	291.79	162.80	165.33		165.36	0.000497	1.48	236.91	171.81	0.16
US Route 1-DS05	11400	50-Year	348.32	162.80	165.78		165.80	0.000289	1.26	315.40	180.12	0.13
US Route 1-DS05	11400	100-Year	401.92	162.80	166.12		166.14	0.000221	1.18	377.89	186.64	0.11
US Route 1-DS05	11400	500-Year	533.22	162.80	166.72		166.74	0.000175	1.17	493.67	198.81	0.10
US Route 1-DS05	11345	2-Year	96.82	159.82	164.16	161.45	164.21	0.000520	1.79	62.19	97.44	0.16
US Route 1-DS05	11345	10-Year	220.55	159.82	164.82	162.35	164.87	0.000699	2.29	132.74	115.71	0.19
US Route 1-DS05	11345	25-Year	291.79	159.82	165.29	162.79	165.33	0.000466	2.00	188.93	122.60	0.16
US Route 1-DS05	11345	50-Year	348.32	159.82	165.75	163.11	165.78	0.000304	1.71	247.25	130.26	0.13
US Route 1-DS05	11345	100-Year	401.92	159.82	166.10	163.93	166.13	0.000245	1.60	293.25	135.78	0.12
US Route 1-DS05	11345	500-Year	533.22	159.82	166.70	164.71	166.73	0.000204	1.56	377.67	144.40	0.11
US Route 1-DS05	11335 Footbridge		Bridge									
US Route 1-DS05	11325	2-Year	96.82	159.82	164.10	161.49	164.18	0.000645	2.44	53.52	76.31	0.21
US Route 1-DS05	11325	10-Year	220.55	159.82	164.58	162.38	164.78	0.001728	4.28	73.75	97.27	0.35
US Route 1-DS05	11325	25-Year	291.79	159.82	165.18	162.82	165.29	0.000980	3.49	135.00	108.59	0.27
US Route 1-DS05	11325	50-Year	348.32	159.82	165.70	163.14	165.77	0.000516	2.69	196.17	126.23	0.20
US Route 1-DS05	11325	100-Year	401.92	159.82	166.06	163.40	166.11	0.000370	2.37	243.31	134.31	0.17
US Route 1-DS05	11325	500-Year	533.22	159.82	166.68	165.08	166.72	0.000269	2.15	327.42	140.97	0.14
US Route 1-DS05	11270	2-Year	96.82	162.00	163.74		164.03	0.007430	4.55	26.40	32.51	0.68
US Route 1-DS05	11270	10-Year	220.55	162.00	164.43		164.67	0.004074	4.41	63.81	77.45	0.54
US Route 1-DS05	11270	25-Year	291.79	162.00	165.07		165.22	0.001482	3.18	116.49	91.94	0.34
US Route 1-DS05	11270	50-Year	348.32	162.00	165.61		165.72	0.000779	2.60	167.53	96.55	0.25
US Route 1-DS05	11270	100-Year	401.92	162.00	165.97		166.07	0.000603	2.45	203.25	99.65	0.23
US Route 1-DS05	11270	500-Year	533.22	162.00	166.58		166.68	0.000501	2.48	264.47	103.53	0.21
US Route 1-DS05	11045	2-Year	133.96	160.20	162.03	161.68	162.39	0.006996	4.87	31.00	31.21	0.67
US Route 1-DS05	11045	10-Year	274.60	160.20	162.80	162.58	163.40	0.007255	6.42	61.30	86.32	0.73
US Route 1-DS05	11045	25-Year	381.77	160.20	164.83		164.96	0.000925	3.46	286.89	165.80	0.29
US Route 1-DS05	11045	50-Year	479.31	160.20	165.44		165.55	0.000740	3.37	390.63	173.13	0.26
US Route 1-DS05	11045	100-Year	570.12	160.20	165.81		165.92	0.000724	3.50	455.96	176.72	0.27
US Route 1-DS05	11045	500-Year	777.11	160.20	166.41		166.53	0.000794	3.93	562.59	181.82	0.28
US Route 1-DS05	10845	2-Year	133.96	158.40	159.77	159.77	160.27	0.017167	5.70	25.31	29.79	0.98
US Route 1-DS05	10845	10-Year	274.60	158.40	163.01		163.05	0.000319	1.99	248.80	83.75	0.17
US Route 1-DS05	10845	25-Year	381.77	158.40	164.84		164.87	0.000141	1.68	412.82	95.42	0.12
US Route 1-DS05	10845	50-Year	479.31	158.40	165.43		165.47	0.000151	1.85	470.48	98.29	0.13
US Route 1-DS05	10845	100-Year	570.12	158.40	165.80		165.84	0.000170	2.03	506.70	99.85	0.13
US Route 1-DS05	10845	500-Year	777.11	158.40	166.38		166.44	0.000227	2.48	565.26	102.84	0.16
US Route 1-DS05	10795	2-Year	133.96	155.63	159.80	157.25	159.85	0.000452	1.78	75.07	24.63	0.18
US Route 1-DS05	10795	10-Year	274.60	155.63	163.00	158.02	163.04	0.000176	1.59	180.67	44.99	0.12
US Route 1-DS05	10795	25-Year	381.77	155.63	164.83	158.51	164.86	0.000107	1.51	278.72	63.10	0.10
US Route 1-DS05	10795	50-Year	479.31	155.63	165.42	158.90	165.46	0.000120	1.69	317.90	70.34	0.11
US Route 1-DS05	10795	100-Year	570.12	155.63	165.78	159.23	165.83	0.000139	1.87	344.29	75.48	0.12
US Route 1-DS05	10795	500-Year	777.11	155.63	166.35	159.90	166.42	0.000188	2.27	390.30	86.64	0.14
US Route 1-DS05	10755 Pumpkin Hill Rd		Culvert									
US Route 1-DS05	10715	2-Year	133.96	153.93	156.48	155.51	156.64	0.002456	3.20	43.44	22.83	0.39
US Route 1-DS05	10715	10-Year	274.60	153.93	157.41	156.21	157.72	0.003090	4.48	65.69	24.91	0.46
US Route 1-DS05	10715	25-Year	381.77	153.93	157.98	156.65	158.39	0.003420	5.20	80.06	26.17	0.49
US Route 1-DS05	10715	50-Year	479.31	153.93	158.45	157.02	158.94	0.003612	5.73	92.78	28.00	0.51
US Route 1-DS05	10715	100-Year	570.12	153.93	158.81	157.34	159.39	0.003852	6.22	103.31	29.47	0.53
US Route 1-DS05	10715	500-Year	777.11	153.93	159.51	158.00	160.29	0.004419	7.22	124.93	32.37	0.57
US Route 1-DS05	10665	2-Year	133.96	154.20	155.70	155.70	156.26	0.015940	6.08	24.34	24.70	0.97
US Route 1-DS05	10665	10-Year	274.60	154.20	156.41	156.41	157.27	0.013598	7.62	43.45	28.85	0.97
US Route 1-DS05	10665	25-Year	381.77	154.20	156.84	156.84	157.89	0.012891	8.50	56.42	30.92	0.98
US Route 1-DS05	10665	50-Year	479.31	154.20	157.18	157.18	158.41	0.012754	9.25	67.22	33.48	0.99
US Route 1-DS05	10665	100-Year	570.12	154.20	157.53	157.53	158.86	0.011810	9.65	79.46	36.97	0.97
US Route 1-DS05	10665	500-Year	777.11	154.20	158.22	158.22	159.74	0.010554	10.45	107.33	43.57	0.95
US Route 1-DS05	10470	2-Year	133.96	149.40	150.85	150.85	151.40	0.016375	5.98	24.69	26.81	0.98
US Route 1-DS05	10470	10-Year	274.60	149.40	151.53	151.53	152.35	0.013932	7.49	44.53	31.44	0.97
US Route 1-DS05	10470	25-Year	381.77	149.40	151.94	151.94	152.95	0.013148	8.34	58.11	33.92	0.98

Deadman Brook Recommended Model

HEC-RAS Plan: Proposed (Continued)

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
US Route 1-DS05	10470	50-Year	479.31	149.40	152.29	152.29	153.43	0.012463	8.94	70.39	36.33	0.98
US Route 1-DS05	10470	100-Year	570.12	149.40	152.58	152.58	153.85	0.012085	9.45	81.34	38.39	0.98
US Route 1-DS05	10470	500-Year	777.11	149.40	153.21	153.21	154.70	0.011240	10.37	106.52	42.96	0.97
US Route 1-DS05	10280	2-Year	133.96	145.20	147.23		147.30	0.001261	2.10	73.11	54.84	0.29
US Route 1-DS05	10280	10-Year	274.60	145.20	147.67		147.84	0.002329	3.35	98.93	61.71	0.41
US Route 1-DS05	10280	25-Year	381.77	145.20	147.85		148.12	0.003383	4.26	110.20	64.48	0.50
US Route 1-DS05	10280	50-Year	479.31	145.20	147.98		148.35	0.004385	5.04	118.74	66.50	0.57
US Route 1-DS05	10280	100-Year	570.12	145.20	148.08		148.56	0.005354	5.72	125.56	67.39	0.64
US Route 1-DS05	10280	500-Year	777.11	145.20	148.26	147.91	149.02	0.007782	7.22	137.71	68.68	0.78
US Route 1-DS05	10220	2-Year	133.96	143.00	147.24	144.15	147.25	0.000144	1.17	150.74	96.50	0.10
US Route 1-DS05	10220	10-Year	274.60	143.00	147.70	144.86	147.74	0.000304	1.83	196.13	99.67	0.15
US Route 1-DS05	10220	25-Year	381.77	143.00	147.90	145.42	147.96	0.000449	2.28	216.31	101.04	0.18
US Route 1-DS05	10220	50-Year	479.31	143.00	148.05	145.80	148.13	0.000581	2.65	232.12	102.16	0.21
US Route 1-DS05	10220	100-Year	570.12	143.00	148.18	146.00	148.28	0.000703	2.97	245.33	103.16	0.23
US Route 1-DS05	10220	500-Year	777.11	143.00	148.44	147.12	148.59	0.000968	3.60	272.55	105.20	0.27
US Route 1-DS05	10207.5 Footbridge	Bridge										
US Route 1-DS05	10195	2-Year	133.96	143.00	147.20	144.15	147.23	0.000206	1.39	91.38	96.91	0.12
US Route 1-DS05	10195	10-Year	274.60	143.00	147.68	144.86	147.72	0.000301	1.81	193.29	121.17	0.15
US Route 1-DS05	10195	25-Year	381.77	143.00	147.88	145.43	147.94	0.000413	2.19	217.56	122.28	0.17
US Route 1-DS05	10195	50-Year	479.31	143.00	148.04	145.77	148.11	0.000510	2.48	236.17	123.20	0.20
US Route 1-DS05	10195	100-Year	570.12	143.00	148.16	146.03	148.25	0.000595	2.72	251.74	124.19	0.21
US Route 1-DS05	10195	500-Year	777.11	143.00	148.42	147.36	148.54	0.000767	3.19	283.59	126.19	0.24
US Route 1-DS05	10155	2-Year	133.96	144.40	146.49	146.49	147.05	0.011608	6.52	23.67	59.16	0.87
US Route 1-DS05	10155	10-Year	274.60	144.40	147.32	147.32	147.62	0.005352	5.76	99.91	127.63	0.63
US Route 1-DS05	10155	25-Year	381.77	144.40	147.49	147.49	147.82	0.006068	6.40	121.42	128.84	0.68
US Route 1-DS05	10155	50-Year	479.31	144.40	147.61	147.61	147.97	0.006688	6.91	136.83	129.70	0.72
US Route 1-DS05	10155	100-Year	570.12	144.40	147.71	147.71	148.10	0.007164	7.31	149.62	130.41	0.75
US Route 1-DS05	10155	500-Year	777.11	144.40	147.90	147.90	148.37	0.008125	8.12	174.48	131.77	0.81
US Route 1-DS05	10115	2-Year	133.96	141.50	145.55	143.65	145.74	0.002338	3.71	42.55	27.07	0.32
US Route 1-DS05	10115	10-Year	274.60	141.50	146.36	145.43	146.64	0.003205	4.91	71.53	43.77	0.39
US Route 1-DS05	10115	25-Year	381.77	141.50	146.73	146.13	147.07	0.003661	5.51	89.05	50.17	0.42
US Route 1-DS05	10115	50-Year	479.31	141.50	146.99	146.44	147.39	0.004041	5.97	102.25	54.57	0.45
US Route 1-DS05	10115	100-Year	570.12	141.50	147.56	146.70	147.73	0.001904	4.38	190.62	160.13	0.31
US Route 1-DS05	10115	500-Year	777.11	141.50	147.60	147.00	147.90	0.003232	5.73	197.50	160.66	0.41
US Route 1-DS05	10102.5 Footbridge	Bridge										
US Route 1-DS05	10090	2-Year	133.96	141.50	143.65	143.65	144.72	0.025415	8.33	16.09	7.50	1.00
US Route 1-DS05	10090	10-Year	274.60	141.50	145.42	145.16	145.70	0.004615	5.10	76.01	60.57	0.45
US Route 1-DS05	10090	25-Year	381.77	141.50	145.84	145.41	146.12	0.004053	5.11	102.94	82.64	0.43
US Route 1-DS05	10090	50-Year	479.31	141.50	146.13	145.61	146.43	0.003917	5.25	124.05	102.49	0.43
US Route 1-DS05	10090	100-Year	570.12	141.50	146.33	145.77	146.66	0.004139	5.55	138.78	134.93	0.45
US Route 1-DS05	10090	500-Year	777.11	141.50	146.69	146.11	147.12	0.004648	6.17	168.98	155.28	0.48
US Route 1-DS05	10040	2-Year	133.96	140.60	142.56	142.56	143.21	0.012957	6.73	26.98	27.41	0.92
US Route 1-DS05	10040	10-Year	274.60	140.60	145.45	143.54	145.53	0.000702	3.06	258.14	143.20	0.25
US Route 1-DS05	10040	25-Year	381.77	140.60	145.85	143.94	145.95	0.000826	3.52	318.74	156.88	0.28
US Route 1-DS05	10040	50-Year	479.31	140.60	146.15	144.00	146.26	0.000917	3.85	366.43	163.71	0.30
US Route 1-DS05	10040	100-Year	570.12	140.60	146.35	144.73	146.47	0.001034	4.19	398.79	166.03	0.32
US Route 1-DS05	10040	500-Year	777.11	140.60	146.72	145.30	146.88	0.001278	4.87	461.82	170.45	0.36
US Route 1-DS05	9990	2-Year	133.96	138.87	142.58	140.95	142.73	0.001320	3.07	46.97	22.97	0.32
US Route 1-DS05	9990	10-Year	274.60	138.87	145.45	141.89	145.50	0.000268	2.18	230.38	139.77	0.16
US Route 1-DS05	9990	25-Year	381.77	138.87	145.85	142.49	145.91	0.000320	2.49	285.49	154.97	0.18
US Route 1-DS05	9990	50-Year	479.31	138.87	146.15	143.03	146.22	0.000352	2.70	343.04	161.78	0.19
US Route 1-DS05	9990	100-Year	570.12	138.87	146.34	143.43	146.42	0.000393	2.91	374.94	163.40	0.20
US Route 1-DS05	9990	500-Year	777.11	138.87	146.72	144.00	146.82	0.000480	3.34	436.86	166.50	0.22
US Route 1-DS05	9950 Leslie Ln	Culvert										
US Route 1-DS05	9910	2-Year	133.96	139.00	140.92	140.92	141.65	0.013626	7.03	21.63	17.08	0.94
US Route 1-DS05	9910	10-Year	274.60	139.00	141.87	141.87	142.88	0.011106	8.50	40.82	23.18	0.91
US Route 1-DS05	9910	25-Year	381.77	139.00	142.40	142.40	143.59	0.010641	9.38	53.95	26.43	0.92
US Route 1-DS05	9910	50-Year	479.31	139.00	142.86	142.86	144.15	0.009933	9.91	67.08	30.92	0.91
US Route 1-DS05	9910	100-Year	570.12	139.00	143.00	143.00	144.64	0.012094	11.21	71.54	32.44	1.01
US Route 1-DS05	9910	500-Year	777.11	139.00	144.27	144.27	145.46	0.006676	10.08	148.95	87.02	0.79
US Route 1-DS05	9850 FEMA "E"	2-Year	137.32	138.37	140.30		140.70	0.009863	5.07	27.09	19.84	0.76
US Route 1-DS05	9850 FEMA "E"	10-Year	280.98	138.37	140.83	140.83	141.66	0.013664	7.37	42.16	38.08	0.95
US Route 1-DS05	9850 FEMA "E"	25-Year	389.09	138.37	141.30	141.30	142.23	0.011674	7.90	63.28	51.35	0.91
US Route 1-DS05	9850 FEMA "E"	50-Year	489.77	138.37	141.67	141.67	142.66	0.010504	8.28	84.18	59.06	0.88
US Route 1-DS05	9850 FEMA "E"	100-Year	584.11	138.37	141.95	141.95	143.01	0.010281	8.73	100.89	63.13	0.89
US Route 1-DS05	9850 FEMA "E"	500-Year	798.61	138.37	142.49	142.49	143.72	0.009892	9.58	137.75	71.30	0.90
US Route 1-DS05	9630	2-Year	159.17	137.80	139.69		139.76	0.002145	2.79	163.38	259.18	0.38
US Route 1-DS05	9630	10-Year	335.85	137.80	140.25		140.33	0.001923	3.20	312.59	266.72	0.37
US Route 1-DS05	9630	25-Year	459.76	137.80	140.56		140.64	0.001900	3.46	394.72	271.72	0.38

Deadman Brook Recommended Model

HEC-RAS Plan: Proposed (Continued)

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
US Route 1-DS05	9630	50-Year	580.34	137.80	140.84		140.93	0.001826	3.64	472.17	276.36	0.38
US Route 1-DS05	9630	100-Year	692.12	137.80	141.08		141.17	0.001768	3.78	539.57	279.85	0.38
US Route 1-DS05	9630	500-Year	964.59	137.80	141.66		141.75	0.001571	3.99	703.27	286.04	0.37
US Route 1-DS05	9430	2-Year	159.17	137.00	138.88	138.36	139.14	0.004688	4.14	45.56	241.77	0.56
US Route 1-DS05	9430	10-Year	335.85	137.00	139.63		139.83	0.003141	4.32	215.38	264.02	0.49
US Route 1-DS05	9430	25-Year	459.76	137.00	140.07		140.22	0.002256	4.08	332.28	268.89	0.42
US Route 1-DS05	9430	50-Year	580.34	137.00	140.41		140.54	0.001964	4.10	423.62	274.26	0.40
US Route 1-DS05	9430	100-Year	692.12	137.00	140.67		140.81	0.001830	4.17	497.98	278.56	0.39
US Route 1-DS05	9430	500-Year	964.59	137.00	141.32		141.44	0.001505	4.23	681.20	286.55	0.37
US Route 1-DS05	9230	2-Year	159.17	136.40	138.71	138.17	138.75	0.000790	1.88	145.26	166.53	0.23
US Route 1-DS05	9230	10-Year	335.85	136.40	139.55	138.49	139.60	0.000433	1.76	300.67	197.17	0.18
US Route 1-DS05	9230	25-Year	459.76	136.40	139.98	138.65	140.03	0.000387	1.83	386.68	205.97	0.18
US Route 1-DS05	9230	50-Year	580.34	136.40	140.31	138.78	140.37	0.000384	1.94	463.40	239.99	0.18
US Route 1-DS05	9230	100-Year	692.12	136.40	140.58	138.91	140.64	0.000373	2.01	528.99	248.19	0.18
US Route 1-DS05	9230	500-Year	964.59	136.40	141.23	139.22	141.30	0.000325	2.08	698.55	268.50	0.17
US Route 1-DS05	9180	2-Year	159.17	134.30	138.63	136.69	138.70	0.000754	2.49	84.85	89.66	0.21
US Route 1-DS05	9180	10-Year	335.85	134.30	139.49	137.92	139.56	0.000785	2.86	180.05	149.60	0.22
US Route 1-DS05	9180	25-Year	459.76	134.30	139.94	138.40	140.00	0.000635	2.72	255.82	185.05	0.20
US Route 1-DS05	9180	50-Year	580.34	134.30	140.28	139.03	140.34	0.000558	2.65	323.52	208.23	0.19
US Route 1-DS05	9180	100-Year	692.12	134.30	140.56	139.20	140.61	0.000502	2.59	382.98	226.70	0.18
US Route 1-DS05	9180	500-Year	964.59	134.30	141.22	139.53	141.27	0.000352	2.32	547.99	260.25	0.16
US Route 1-DS05	9167.5 Footbridge	Bridge										
US Route 1-DS05	9155	2-Year	159.17	134.30	138.58	136.70	138.64	0.000737	2.44	87.57	76.82	0.21
US Route 1-DS05	9155	10-Year	335.85	134.30	139.44	137.97	139.52	0.000829	2.92	172.38	124.24	0.23
US Route 1-DS05	9155	25-Year	459.76	134.30	139.90	138.33	139.97	0.000710	2.86	234.10	146.37	0.21
US Route 1-DS05	9155	50-Year	580.34	134.30	140.24	138.90	140.32	0.000672	2.90	286.14	159.98	0.21
US Route 1-DS05	9155	100-Year	692.12	134.30	140.51	139.17	140.59	0.000654	2.94	330.74	172.04	0.21
US Route 1-DS05	9155	500-Year	964.59	134.30	141.17	139.47	141.25	0.000502	2.76	454.39	195.98	0.19
US Route 1-DS04	9110	2-Year	205.67	136.00	138.19		138.50	0.005235	4.80	50.06	41.59	0.60
US Route 1-DS04	9110	10-Year	417.40	136.00	138.82		139.31	0.006293	6.31	79.14	52.09	0.69
US Route 1-DS04	9110	25-Year	559.48	136.00	139.13	138.90	139.73	0.006759	7.07	96.75	59.15	0.73
US Route 1-DS04	9110	50-Year	684.51	136.00	139.39	139.15	140.06	0.006959	7.59	112.98	66.68	0.75
US Route 1-DS04	9110	100-Year	798.34	136.00	139.59	139.40	140.32	0.007182	8.03	126.57	72.38	0.77
US Route 1-DS04	9110	500-Year	1075.77	136.00	140.10	139.81	140.96	0.007250	8.86	171.51	133.94	0.79
US Route 1-DS04	9060	2-Year	205.67	132.93	138.08	137.28	138.24	0.003462	4.01	70.59	68.22	0.31
US Route 1-DS04	9060	10-Year	417.40	132.93	138.78	138.21	138.96	0.003206	4.20	125.86	91.30	0.31
US Route 1-DS04	9060	25-Year	559.48	132.93	139.16	138.44	139.35	0.002663	3.99	163.55	102.13	0.28
US Route 1-DS04	9060	50-Year	684.51	132.93	139.46	138.62	139.66	0.002331	3.85	194.92	106.45	0.27
US Route 1-DS04	9060	100-Year	798.34	132.93	139.69	138.77	139.89	0.002219	3.84	218.91	109.63	0.26
US Route 1-DS04	9060	500-Year	1075.77	132.93	140.27	139.10	140.49	0.001881	3.74	285.83	124.38	0.24
US Route 1-DS04	9042.5 Driveway Bridge	Bridge										
US Route 1-DS04	9025	2-Year	205.67	132.93	137.12	137.12	137.51	0.009649	5.55	44.76	56.54	0.48
US Route 1-DS04	9025	10-Year	417.40	132.93	137.87	137.58	138.29	0.004677	4.30	92.07	69.94	0.34
US Route 1-DS04	9025	25-Year	559.48	132.93	138.35	137.87	138.78	0.003205	3.79	128.17	78.18	0.29
US Route 1-DS04	9025	50-Year	684.51	132.93	138.73	138.11	139.17	0.002628	3.59	158.95	86.75	0.26
US Route 1-DS04	9025	100-Year	798.34	132.93	139.04	138.32	139.49	0.002265	3.45	186.95	91.72	0.25
US Route 1-DS04	9025	500-Year	1075.77	132.93	139.65	138.77	140.16	0.001834	3.31	244.60	96.27	0.23
US Route 1-DS04	8975	2-Year	205.67	134.20	136.27	136.27	136.85	0.011281	6.60	47.48	48.67	0.87
US Route 1-DS04	8975	10-Year	417.40	134.20	137.00	137.00	137.82	0.011447	8.35	85.98	57.48	0.93
US Route 1-DS04	8975	25-Year	559.48	134.20	137.38	137.38	138.35	0.011577	9.23	109.21	63.61	0.96
US Route 1-DS04	8975	50-Year	684.51	134.20	137.70	137.70	138.75	0.011270	9.77	130.55	68.78	0.96
US Route 1-DS04	8975	100-Year	798.34	134.20	137.97	137.97	139.08	0.010970	10.18	149.97	73.17	0.96
US Route 1-DS04	8975	500-Year	1075.77	134.20	138.52	138.52	139.76	0.010686	11.07	191.18	77.39	0.97
US Route 1-DS04	8835	2-Year	205.67	131.20	133.25		133.60	0.007022	5.18	46.52	42.98	0.69
US Route 1-DS04	8835	10-Year	417.40	131.20	134.37		134.65	0.003263	4.90	105.12	64.16	0.51
US Route 1-DS04	8835	25-Year	559.48	131.20	134.62		135.00	0.004058	5.78	122.68	82.50	0.57
US Route 1-DS04	8835	50-Year	684.51	131.20	134.86		135.31	0.004635	6.49	144.50	100.51	0.62
US Route 1-DS04	8835	100-Year	798.34	131.20	135.00		135.50	0.005024	6.94	158.69	104.81	0.65
US Route 1-DS04	8835	500-Year	1075.77	131.20	135.34		135.91	0.005247	7.53	194.78	109.98	0.68
US Route 1-DS04	8695	2-Year	205.67	130.60	133.00	132.23	133.09	0.001627	2.64	94.83	97.03	0.34
US Route 1-DS04	8695	10-Year	417.40	130.60	134.39	132.77	134.44	0.000470	2.04	270.50	145.44	0.20
US Route 1-DS04	8695	25-Year	559.48	130.60	134.67	133.11	134.73	0.000573	2.38	312.02	153.13	0.22
US Route 1-DS04	8695	50-Year	684.51	130.60	134.94	133.30	135.01	0.000607	2.57	354.57	160.63	0.23
US Route 1-DS04	8695	100-Year	798.34	130.60	135.08	133.45	135.16	0.000691	2.81	377.64	165.06	0.25
US Route 1-DS04	8695	500-Year	1075.77	130.60	135.42	133.71	135.52	0.000841	3.27	434.38	176.28	0.28
US Route 1-DS04	8645	2-Year	205.67	129.40	132.82	131.53	132.99	0.001561	3.63	82.29	99.26	0.36
US Route 1-DS04	8645	10-Year	417.40	129.40	134.35	132.57	134.41	0.000504	2.67	319.62	185.99	0.22
US Route 1-DS04	8645	25-Year	559.48	129.40	134.62	133.00	134.69	0.000612	3.05	372.40	198.83	0.24
US Route 1-DS04	8645	50-Year	684.51	129.40	134.90	133.32	134.97	0.000632	3.22	429.45	213.85	0.25
US Route 1-DS04	8645	100-Year	798.34	129.40	135.04	133.52	135.12	0.000718	3.49	459.90	220.62	0.26

Deadman Brook Recommended Model

HEC-RAS Plan: Proposed (Continued)

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
US Route 1-DS04	8645	500-Year	1075.77	129.40	135.37	133.99	135.48	0.000866	3.98	535.21	231.83	0.29
US Route 1-DS04	8600 Roseville Rd	Culvert										
US Route 1-DS04	8555	2-Year	205.67	127.00	130.10	130.10	130.89	0.009442	8.00	44.40	82.74	0.84
US Route 1-DS04	8555	10-Year	417.40	127.00	131.00	131.00	131.35	0.004788	6.87	161.04	91.27	0.63
US Route 1-DS04	8555	25-Year	559.48	127.00	131.00	131.00	131.62	0.008603	9.21	161.04	91.27	0.84
US Route 1-DS04	8555	50-Year	684.51	127.00	131.15	131.15	131.91	0.010217	10.31	175.26	92.72	0.93
US Route 1-DS04	8555	100-Year	798.34	127.00	131.34	131.34	132.15	0.010653	10.87	192.89	94.49	0.95
US Route 1-DS04	8555	500-Year	1075.77	127.00	131.74	131.74	132.67	0.011564	12.06	231.18	98.22	1.01
US Route 1-DS04	8550	2-Year	205.67	123.60	128.34	128.34	129.01	0.005462	7.74	63.29	52.49	0.66
US Route 1-DS04	8550	10-Year	417.40	123.60	129.38	129.38	130.09	0.005835	9.24	140.13	93.16	0.71
US Route 1-DS04	8550	25-Year	559.48	123.60	129.73	129.73	130.51	0.006575	10.24	174.40	99.84	0.76
US Route 1-DS04	8550	50-Year	684.51	123.60	130.05	130.05	130.83	0.006628	10.66	207.32	105.19	0.77
US Route 1-DS04	8550	100-Year	798.34	123.60	130.26	130.26	131.06	0.006945	11.17	229.47	106.45	0.79
US Route 1-DS04	8550	500-Year	1075.77	123.60	130.66	130.66	131.56	0.008023	12.50	271.76	108.83	0.86
US Route 1-DS04	8410	2-Year	205.67	121.60	123.60	123.60	124.31	0.013042	7.04	38.60	34.37	0.93
US Route 1-DS04	8410	10-Year	417.40	121.60	124.49	124.49	125.46	0.011408	8.63	74.36	44.95	0.93
US Route 1-DS04	8410	25-Year	559.48	121.60	124.95	124.95	126.06	0.010997	9.42	96.17	49.50	0.94
US Route 1-DS04	8410	50-Year	684.51	121.60	125.32	125.32	126.53	0.010675	9.99	114.76	52.79	0.94
US Route 1-DS04	8410	100-Year	798.34	121.60	125.59	125.59	126.91	0.010756	10.54	129.64	55.24	0.96
US Route 1-DS04	8410	500-Year	1075.77	121.60	126.40	126.40	127.71	0.008762	10.83	178.53	68.52	0.89
US Route 1-DS04	8260	2-Year	205.67	98.20	99.16	99.16	99.57	0.019428	5.14	40.11	50.83	1.01
US Route 1-DS04	8260	10-Year	417.40	98.20	100.03		100.41	0.007020	5.01	87.65	59.38	0.68
US Route 1-DS04	8260	25-Year	559.48	98.20	100.83		101.13	0.003316	4.47	137.51	64.81	0.50
US Route 1-DS04	8260	50-Year	684.51	98.20	101.35		101.65	0.002572	4.47	172.41	68.48	0.45
US Route 1-DS04	8260	100-Year	798.34	98.20	101.72		102.04	0.002357	4.62	197.86	71.08	0.44
US Route 1-DS04	8260	500-Year	1075.77	98.20	102.55		102.91	0.001986	4.92	260.02	77.70	0.42
US Route 1-DS03	8210	2-Year	210.25	95.00	97.65	97.65	98.49	0.012406	7.83	38.11	27.28	0.94
US Route 1-DS03	8210	10-Year	427.29	95.00	98.73	98.73	99.91	0.011059	9.67	71.59	34.90	0.95
US Route 1-DS03	8210	25-Year	572.23	95.00	99.00	99.00	100.69	0.014495	11.69	81.47	36.86	1.10
US Route 1-DS03	8210	50-Year	702.01	95.00	99.87	99.87	101.32	0.009655	11.05	121.89	56.44	0.93
US Route 1-DS03	8210	100-Year	821.31	95.00	100.37	100.37	101.74	0.008254	10.99	152.23	62.63	0.88
US Route 1-DS03	8210	500-Year	1114.72	95.00	101.09	101.09	102.62	0.008239	12.03	199.64	68.73	0.89
US Route 1-DS03	8130	2-Year	210.25	93.80	96.12	96.12	96.88	0.011991	7.27	39.50	33.21	0.91
US Route 1-DS03	8130	10-Year	427.29	93.80	97.03	97.03	98.17	0.011812	9.28	72.81	40.65	0.96
US Route 1-DS03	8130	25-Year	572.23	93.80	97.60	97.60	98.87	0.010803	9.99	97.89	48.34	0.95
US Route 1-DS03	8130	50-Year	702.01	93.80	98.06	98.06	99.40	0.010016	10.45	121.44	54.44	0.93
US Route 1-DS03	8130	100-Year	821.31	93.80	98.41	98.41	99.83	0.009690	10.89	141.42	58.41	0.93
US Route 1-DS03	8130	500-Year	1114.72	93.80	99.14	99.14	100.75	0.009371	11.90	187.34	66.56	0.94
US Route 1-DS03	8080	2-Year	210.25	90.70	95.60	93.59	95.72	0.001423	3.30	112.58	49.78	0.26
US Route 1-DS03	8080	10-Year	427.29	90.70	96.78	94.82	96.97	0.002076	4.60	177.64	62.23	0.33
US Route 1-DS03	8080	25-Year	572.23	90.70	97.36	95.38	97.59	0.002298	5.14	217.02	74.47	0.35
US Route 1-DS03	8080	50-Year	702.01	90.70	97.61	95.73	97.90	0.002774	5.79	236.84	81.22	0.39
US Route 1-DS03	8080	100-Year	821.31	90.70	97.71	96.00	98.07	0.003504	6.57	244.36	83.64	0.44
US Route 1-DS03	8080	500-Year	1114.72	90.70	98.12	96.65	98.60	0.004409	7.65	281.15	92.43	0.50
US Route 1-DS03	8065 Stone Footbridge	Bridge										
US Route 1-DS03	8050	2-Year	210.25	90.70	95.00	93.88	95.36	0.004473	5.34	66.68	42.64	0.45
US Route 1-DS03	8050	10-Year	427.29	90.70	95.57	95.40	96.42	0.009714	8.55	93.28	49.93	0.68
US Route 1-DS03	8050	25-Year	572.23	90.70	95.93	95.93	97.02	0.012045	9.98	111.83	54.42	0.77
US Route 1-DS03	8050	50-Year	702.01	90.70	96.61	96.61	97.42	0.008697	9.21	157.16	80.49	0.67
US Route 1-DS03	8050	100-Year	821.31	90.70	97.19	96.96	97.68	0.005374	7.71	211.18	99.78	0.53
US Route 1-DS03	8050	500-Year	1114.72	90.70	97.79	97.32	98.22	0.004480	7.46	272.47	104.49	0.49
US Route 1-DS03	8030	2-Year	210.25	92.20	94.96		95.24	0.003350	4.48	63.09	42.03	0.50
US Route 1-DS03	8030	10-Year	427.29	92.20	95.45	94.98	96.19	0.007105	7.35	88.49	62.10	0.75
US Route 1-DS03	8030	25-Year	572.23	92.20	95.68	95.68	96.75	0.009451	8.91	104.06	72.13	0.87
US Route 1-DS03	8030	50-Year	702.01	92.20	96.26	96.26	97.14	0.006854	8.47	152.50	92.84	0.77
US Route 1-DS03	8030	100-Year	821.31	92.20	96.51	96.51	97.42	0.006755	8.78	177.14	98.33	0.77
US Route 1-DS03	8030	500-Year	1114.72	92.20	97.08	97.08	97.97	0.006215	9.19	235.89	109.34	0.75
US Route 1-DS03	8010	2-Year	210.25	90.10	94.79	93.23	95.14	0.005075	5.26	63.98	47.49	0.43
US Route 1-DS03	8010	10-Year	427.29	90.10	95.52	95.36	95.87	0.005614	6.09	113.94	110.11	0.46
US Route 1-DS03	8010	25-Year	572.23	90.10	95.72	95.72	96.12	0.006354	6.64	137.04	113.61	0.49
US Route 1-DS03	8010	50-Year	702.01	90.10	95.82	95.81	96.30	0.007700	7.40	148.19	114.42	0.54
US Route 1-DS03	8010	100-Year	821.31	90.10	96.04	95.93	96.48	0.006618	7.03	173.47	116.06	0.51
US Route 1-DS03	8010	500-Year	1114.72	90.10	96.47	96.18	96.90	0.005442	6.68	223.84	119.35	0.47
US Route 1-DS03	8000 Footbridge	Bridge										
US Route 1-DS03	7990	2-Year	210.25	89.60	94.29	94.29	94.74	0.010598	6.20	43.19	41.64	0.50
US Route 1-DS03	7990	10-Year	427.29	89.60	94.84	94.84	95.48	0.014322	7.76	71.48	66.06	0.60
US Route 1-DS03	7990	25-Year	572.23	89.60	95.23	95.23	95.75	0.010997	7.13	106.17	97.74	0.53
US Route 1-DS03	7990	50-Year	702.01	89.60	95.39	95.39	95.95	0.011155	7.32	122.17	100.41	0.54
US Route 1-DS03	7990	100-Year	821.31	89.60	95.50	95.50	96.13	0.011923	7.66	133.17	102.20	0.56

Deadman Brook Recommended Model

HEC-RAS Plan: Proposed (Continued)

Reach	River Sta		Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
US Route 1-DS03	7990		500-Year	1114.72	89.60	95.80	95.80	96.53	0.011760	7.86	164.92	107.21	0.56
US Route 1-DS03	7980		2-Year	210.25	87.70	93.98	92.08	94.17	0.003882	4.02	63.91	48.41	0.28
US Route 1-DS03	7980		10-Year	427.29	87.70	94.74	94.08	94.99	0.004584	4.72	115.35	96.17	0.31
US Route 1-DS03	7980		25-Year	572.23	87.70	95.10	94.47	95.34	0.003866	4.48	150.71	101.83	0.29
US Route 1-DS03	7980		50-Year	702.01	87.70	95.30	94.77	95.57	0.003949	4.61	171.60	103.86	0.29
US Route 1-DS03	7980		100-Year	821.31	87.70	95.47	94.91	95.77	0.004029	4.72	189.12	105.53	0.30
US Route 1-DS03	7980		500-Year	1114.72	87.70	95.85	95.18	96.22	0.004097	4.91	229.82	109.31	0.30
US Route 1-DS03	7960	Driveway Bridge		Bridge									
US Route 1-DS03	7940		2-Year	210.25	87.70	90.09	90.09	91.29	0.022571	8.79	23.92	10.00	1.00
US Route 1-DS03	7940		10-Year	427.29	87.70	92.55	92.55	92.88	0.004559	5.51	114.97	143.44	0.44
US Route 1-DS03	7940		25-Year	572.23	87.70	92.72	92.72	93.08	0.005198	6.02	139.21	148.88	0.47
US Route 1-DS03	7940		50-Year	702.01	87.70	92.83	92.83	93.24	0.005727	6.42	157.17	151.78	0.50
US Route 1-DS03	7940		100-Year	821.31	87.70	92.93	92.93	93.38	0.006161	6.74	171.87	153.55	0.52
US Route 1-DS03	7940		500-Year	1114.72	87.70	93.14	93.14	93.68	0.007100	7.42	203.75	158.18	0.56
US Route 1-DS03	7900	FEMA "D"	2-Year	210.25	86.20	89.40	89.40	90.35	0.010281	8.15	34.71	36.96	0.87
US Route 1-DS03	7900	FEMA "D"	10-Year	427.29	86.20	90.61	90.61	91.98	0.010073	10.31	65.50	47.04	0.91
US Route 1-DS03	7900	FEMA "D"	25-Year	572.23	86.20	91.33	91.33	92.03	0.004714	7.84	158.39	123.62	0.64
US Route 1-DS03	7900	FEMA "D"	50-Year	702.01	86.20	91.62	91.62	92.31	0.004678	8.14	195.80	130.10	0.65
US Route 1-DS03	7900	FEMA "D"	100-Year	821.31	86.20	91.83	91.83	92.53	0.004826	8.49	222.64	134.57	0.66
US Route 1-DS03	7900	FEMA "D"	500-Year	1114.72	86.20	92.20	92.20	92.98	0.005442	9.45	274.52	144.46	0.71
US Route 1-DS02	7790		2-Year	234.51	85.00	87.37	87.34	88.04	0.010388	6.96	50.07	45.85	0.85
US Route 1-DS02	7790		10-Year	474.47	85.00	88.26	88.26	89.16	0.009881	8.61	98.73	61.90	0.88
US Route 1-DS02	7790		25-Year	626.82	85.00	88.67	88.67	89.70	0.010009	9.44	124.86	66.15	0.91
US Route 1-DS02	7790		50-Year	772.10	85.00	88.96	88.96	90.16	0.010730	10.33	144.53	69.17	0.95
US Route 1-DS02	7790		100-Year	916.40	85.00	89.28	89.28	90.59	0.010753	10.94	167.63	75.15	0.97
US Route 1-DS02	7790		500-Year	1303.07	85.00	89.98	89.98	91.57	0.011172	12.41	224.89	89.00	1.01
US Route 1-DS02	7680		2-Year	234.51	84.60	86.12	86.12	86.62	0.015360	5.76	42.05	44.15	0.95
US Route 1-DS02	7680		10-Year	474.47	84.60	88.10		88.20	0.001082	2.98	202.83	133.35	0.30
US Route 1-DS02	7680		25-Year	626.82	84.60	88.54		88.64	0.000915	2.99	262.60	137.71	0.28
US Route 1-DS02	7680		50-Year	772.10	84.60	88.85		88.97	0.000886	3.12	306.69	140.84	0.28
US Route 1-DS02	7680		100-Year	916.40	84.60	89.12		89.24	0.000894	3.27	344.05	146.95	0.28
US Route 1-DS02	7680		500-Year	1303.07	84.60	89.62		89.78	0.001021	3.77	423.18	167.31	0.31
US Route 1-DS02	7640		2-Year	234.51	83.00	85.59		85.75	0.002655	3.63	77.91	62.55	0.44
US Route 1-DS02	7640		10-Year	474.47	83.00	88.12		88.16	0.000274	1.96	304.75	117.25	0.16
US Route 1-DS02	7640		25-Year	626.82	83.00	88.55		88.60	0.000325	2.26	359.29	136.97	0.18
US Route 1-DS02	7640		50-Year	772.10	83.00	88.86		88.93	0.000374	2.52	404.51	153.18	0.19
US Route 1-DS02	7640		100-Year	916.40	83.00	89.12		89.20	0.000425	2.78	449.85	199.03	0.21
US Route 1-DS02	7640		500-Year	1303.07	83.00	89.63		89.73	0.000502	3.19	552.56	204.89	0.23
US Route 1-DS02	7610		2-Year	234.51	82.20	85.58		85.68	0.001299	3.11	99.46	69.02	0.32
US Route 1-DS02	7610		10-Year	474.47	82.20	88.12		88.15	0.000177	1.74	358.57	126.70	0.13
US Route 1-DS02	7610		25-Year	626.82	82.20	88.55		88.59	0.000213	2.01	415.80	139.07	0.15
US Route 1-DS02	7610		50-Year	772.10	82.20	88.86		88.91	0.000250	2.25	460.71	148.07	0.16
US Route 1-DS02	7610		100-Year	916.40	82.20	89.12		89.18	0.000349	2.73	507.18	221.22	0.19
US Route 1-DS02	7610		500-Year	1303.07	82.20	89.63		89.71	0.000400	3.07	621.91	227.58	0.20
US Route 1-DS02	7550		2-Year	234.51	81.60	85.51	83.46	85.61	0.000721	2.64	128.50	102.81	0.25
US Route 1-DS02	7550		10-Year	474.47	81.60	88.05	84.31	88.13	0.000320	2.52	400.04	189.52	0.18
US Route 1-DS02	7550		25-Year	626.82	81.60	88.46	84.76	88.56	0.000420	3.01	456.31	208.09	0.21
US Route 1-DS02	7550		50-Year	772.10	81.60	88.81	85.00	88.89	0.000358	2.88	690.91	224.11	0.19
US Route 1-DS02	7550		100-Year	916.40	81.60	89.05	85.57	89.15	0.000424	3.21	748.26	253.63	0.21
US Route 1-DS02	7550		500-Year	1303.07	81.60	89.53	86.65	89.67	0.000595	3.97	877.41	287.22	0.25
US Route 1-DS02	7505		2-Year	234.51	80.03	85.48	82.78	85.58	0.000539	2.70	119.79	71.88	0.22
US Route 1-DS02	7505		10-Year	474.47	80.03	88.04	83.90	88.11	0.000273	2.58	375.11	137.06	0.17
US Route 1-DS02	7505		25-Year	626.82	80.03	88.44	84.54	88.54	0.000367	3.10	421.42	154.56	0.20
US Route 1-DS02	7505		50-Year	772.10	80.03	88.75	84.88	88.86	0.000444	3.49	508.68	167.67	0.22
US Route 1-DS02	7505		100-Year	916.40	80.03	88.98	85.52	89.11	0.000530	3.90	549.06	177.83	0.24
US Route 1-DS02	7505		500-Year	1303.07	80.03	89.41	86.58	89.61	0.000801	4.95	631.34	207.46	0.30
US Route 1-DS02	7472.5	Deerwood Ln		Bridge									
US Route 1-DS02	7440		2-Year	234.51	80.52	84.94	83.28	85.12	0.001640	3.56	71.24	32.41	0.35
US Route 1-DS02	7440		10-Year	474.47	80.52	85.70	84.48	86.10	0.003031	5.49	103.13	51.40	0.49
US Route 1-DS02	7440		25-Year	626.82	80.52	85.87	85.05	86.46	0.004359	6.78	112.31	56.08	0.60
US Route 1-DS02	7440		50-Year	772.10	80.52	85.99	85.61	86.80	0.005799	7.97	119.03	59.28	0.69
US Route 1-DS02	7440		100-Year	916.40	80.52	86.08	86.08	87.13	0.007306	9.09	124.82	61.43	0.78
US Route 1-DS02	7440		500-Year	1303.07	80.52	86.76	86.76	87.89	0.006905	9.76	171.77	76.12	0.77
US Route 1-DS02	7420		2-Year	234.51	80.25	84.84	83.00	85.07	0.002938	4.24	73.18	64.55	0.35
US Route 1-DS02	7420		10-Year	474.47	80.25	85.75	85.08	85.95	0.002473	4.39	150.39	105.27	0.33
US Route 1-DS02	7420		25-Year	626.82	80.25	85.99	85.39	86.22	0.002952	4.93	176.10	115.81	0.36
US Route 1-DS02	7420		50-Year	772.10	80.25	86.19	85.61	86.45	0.003223	5.27	199.69	121.80	0.38
US Route 1-DS02	7420		100-Year	916.40	80.25	86.36	85.81	86.66	0.003471	5.58	220.87	126.76	0.40
US Route 1-DS02	7420		500-Year	1303.07	80.25	86.79	86.18	87.16	0.003754	6.07	278.55	139.39	0.42

Deadman Brook Recommended Model

HEC-RAS Plan: Proposed (Continued)

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
US Route 1-DS02	7407.5	Footbridge	Bridge									
US Route 1-DS02	7395	2-Year	234.51	80.25	83.00	83.00	84.39	0.024333	9.46	24.78	9.00	1.01
US Route 1-DS02	7395	10-Year	474.47	80.25	85.22	85.22	85.72	0.006690	6.75	101.75	97.89	0.53
US Route 1-DS02	7395	25-Year	626.82	80.25	85.45	85.45	85.98	0.007203	7.22	125.40	105.63	0.56
US Route 1-DS02	7395	50-Year	772.10	80.25	85.62	85.62	86.20	0.007817	7.68	143.83	111.29	0.58
US Route 1-DS02	7395	100-Year	916.40	80.25	85.80	85.80	86.40	0.007905	7.90	164.13	117.40	0.59
US Route 1-DS02	7395	500-Year	1303.07	80.25	86.13	86.13	86.86	0.008976	8.74	204.36	127.16	0.64
US Route 1-DS02	7345	2-Year	234.51	79.40	82.29	82.29	83.08	0.010500	7.80	35.16	22.83	0.87
US Route 1-DS02	7345	10-Year	474.47	79.40	83.32	83.32	84.37	0.009645	9.44	63.36	34.34	0.89
US Route 1-DS02	7345	25-Year	626.82	79.40	83.88	83.88	84.93	0.008558	9.80	85.33	45.28	0.86
US Route 1-DS02	7345	50-Year	772.10	79.40	84.51	84.51	85.41	0.006709	9.55	122.57	76.72	0.78
US Route 1-DS02	7345	100-Year	916.40	79.40	84.92	84.92	85.70	0.005626	9.25	159.22	100.44	0.72
US Route 1-DS02	7345	500-Year	1303.07	79.40	85.40	85.40	86.25	0.005854	10.02	212.90	120.79	0.75
US Route 1-DS02	7240	2-Year	234.51	77.80	79.48	79.48	80.06	0.016435	6.19	40.23	39.10	0.99
US Route 1-DS02	7240	10-Year	474.47	77.80	80.20	80.20	81.07	0.013523	7.65	71.49	47.12	0.97
US Route 1-DS02	7240	25-Year	626.82	77.80	80.56	80.56	81.60	0.012836	8.37	89.31	49.99	0.97
US Route 1-DS02	7240	50-Year	772.10	77.80	80.88	80.88	82.05	0.012364	8.95	105.55	52.46	0.97
US Route 1-DS02	7240	100-Year	916.40	77.80	81.16	81.16	82.47	0.012158	9.51	120.76	55.54	0.98
US Route 1-DS02	7240	500-Year	1303.07	77.80	81.90	81.90	83.46	0.011025	10.52	165.17	65.25	0.97
US Route 1-DS02	7125	2-Year	234.51	75.20	76.69	76.64	77.25	0.014626	6.00	40.11	35.39	0.94
US Route 1-DS02	7125	10-Year	474.47	75.20	77.38	77.38	78.30	0.013844	7.78	66.65	42.45	0.98
US Route 1-DS02	7125	25-Year	626.82	75.20	77.77	77.77	78.86	0.012815	8.46	84.26	46.79	0.97
US Route 1-DS02	7125	50-Year	772.10	75.20	78.11	78.11	79.33	0.012135	9.01	100.84	50.48	0.97
US Route 1-DS02	7125	100-Year	916.40	75.20	78.43	78.43	79.76	0.011561	9.48	117.38	53.81	0.96
US Route 1-DS02	7125	500-Year	1303.07	75.20	80.13	79.14	81.07	0.004715	8.16	231.06	82.35	0.66
US Route 1-DS02	6920	2-Year	234.51	71.60	73.59	73.59	74.38	0.014018	7.22	37.03	29.88	0.96
US Route 1-DS02	6920	10-Year	474.47	71.60	74.59	74.59	75.70	0.011330	8.78	74.17	44.83	0.93
US Route 1-DS02	6920	25-Year	626.82	71.60	75.13	75.13	76.35	0.010205	9.38	100.30	52.93	0.91
US Route 1-DS02	6920	50-Year	772.10	71.60	75.54	75.54	76.89	0.009801	9.96	123.44	58.22	0.91
US Route 1-DS02	6920	100-Year	916.40	71.60	75.70	75.70	77.40	0.011807	11.24	132.83	61.34	1.01
US Route 1-DS02	6920	500-Year	1303.07	71.60	75.75	75.75	79.06	0.022703	15.73	136.06	62.54	1.40
US Route 1-DS02	6720	2-Year	234.51	68.00	70.42	69.99	70.85	0.006302	5.47	56.53	40.62	0.67
US Route 1-DS02	6720	10-Year	474.47	68.00	71.49		72.10	0.005442	6.71	108.83	54.30	0.66
US Route 1-DS02	6720	25-Year	626.82	68.00	72.04		72.70	0.005050	7.19	139.88	58.95	0.66
US Route 1-DS02	6720	50-Year	772.10	68.00	72.56		73.24	0.004509	7.41	171.81	63.11	0.63
US Route 1-DS02	6720	100-Year	916.40	68.00	72.88		73.64	0.004763	7.99	191.77	65.57	0.66
US Route 1-DS02	6720	500-Year	1303.07	68.00	73.71		74.63	0.004806	8.98	248.99	71.59	0.68
US Route 1-DS02	6520	2-Year	234.51	66.00	68.18	68.18	69.06	0.014064	7.63	34.68	24.10	0.98
US Route 1-DS02	6520	10-Year	474.47	66.00	69.28	69.28	70.55	0.011416	9.34	67.42	36.61	0.95
US Route 1-DS02	6520	25-Year	626.82	66.00	69.89	69.89	71.29	0.010084	9.93	92.82	46.62	0.92
US Route 1-DS02	6520	50-Year	772.10	66.00	70.32	70.32	71.90	0.010068	10.69	114.31	55.21	0.94
US Route 1-DS02	6520	100-Year	916.40	66.00	70.99	70.99	72.42	0.007766	10.40	160.05	77.03	0.85
US Route 1-DS02	6520	500-Year	1303.07	66.00	71.89	71.89	73.43	0.007246	11.30	235.52	87.39	0.84
US Route 1-DS02	6320	2-Year	234.51	58.00	61.59		61.72	0.001070	3.08	97.75	47.36	0.30
US Route 1-DS02	6320	10-Year	474.47	58.00	62.80		63.04	0.001323	4.21	165.94	71.53	0.35
US Route 1-DS02	6320	25-Year	626.82	58.00	63.39		63.66	0.001387	4.67	209.63	77.28	0.36
US Route 1-DS02	6320	50-Year	772.10	58.00	63.87		64.18	0.001427	5.03	247.99	80.51	0.37
US Route 1-DS02	6320	100-Year	916.40	58.00	64.28		64.63	0.001494	5.39	281.48	84.12	0.39
US Route 1-DS02	6320	500-Year	1303.07	58.00	65.16		65.61	0.001696	6.29	359.22	93.04	0.42
US Route 1-DS02	6270	2-Year	234.51	52.83	61.45	56.92	61.63	0.002449	3.86	98.23	41.40	0.23
US Route 1-DS02	6270	10-Year	474.47	52.83	62.60	60.66	62.91	0.004034	5.38	152.50	53.13	0.30
US Route 1-DS02	6270	25-Year	626.82	52.83	63.16	61.46	63.52	0.004630	5.98	183.61	58.70	0.33
US Route 1-DS02	6270	50-Year	772.10	52.83	63.64	61.94	64.04	0.004961	6.38	212.77	63.28	0.34
US Route 1-DS02	6270	100-Year	916.40	52.83	64.04	62.37	64.48	0.005264	6.73	239.00	67.18	0.35
US Route 1-DS02	6270	500-Year	1303.07	52.83	64.91	63.26	65.44	0.005959	7.53	301.81	76.49	0.38
US Route 1-DS02	6257.5	Footbridge	Bridge									
US Route 1-DS02	6245	2-Year	234.51	52.83	61.38	56.92	61.52	0.002133	3.58	104.56	41.55	0.22
US Route 1-DS02	6245	10-Year	474.47	52.83	62.47	60.64	62.71	0.003562	5.01	154.77	50.64	0.28
US Route 1-DS02	6245	25-Year	626.82	52.83	63.01	61.23	63.30	0.004118	5.59	183.56	55.94	0.31
US Route 1-DS02	6245	50-Year	772.10	52.83	63.49	61.65	63.80	0.004435	5.98	211.19	61.23	0.32
US Route 1-DS02	6245	100-Year	916.40	52.83	63.88	62.00	64.23	0.004702	6.31	236.52	65.70	0.33
US Route 1-DS02	6245	500-Year	1303.07	52.83	64.76	62.82	65.18	0.005126	6.93	297.96	73.68	0.35
US Route 1-DS02	6195	2-Year	234.51	58.20	60.47	60.47	61.14	0.011995	6.93	41.36	34.27	0.90
US Route 1-DS02	6195	10-Year	474.47	58.20	61.34	61.34	62.24	0.010240	8.31	76.32	44.54	0.89
US Route 1-DS02	6195	25-Year	626.82	58.20	61.74	61.74	62.77	0.010123	9.04	94.64	47.94	0.90
US Route 1-DS02	6195	50-Year	772.10	58.20	62.06	62.06	63.22	0.010282	9.73	110.32	51.10	0.93
US Route 1-DS02	6195	100-Year	916.40	58.20	62.40	62.40	63.63	0.009843	10.13	128.35	55.22	0.92
US Route 1-DS02	6195	500-Year	1303.07	58.20	63.18	63.18	64.56	0.008982	10.97	175.08	64.26	0.91
US Route 1-DS02	6090	2-Year	234.51	53.20	55.77	55.77	56.55	0.011265	7.54	38.33	27.72	0.89
US Route 1-DS02	6090	10-Year	474.47	53.20	57.24		57.93	0.005480	7.40	86.35	37.25	0.68

Deadman Brook Recommended Model

HEC-RAS Plan: Proposed (Continued)

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
US Route 1-DS02	6090	25-Year	626.82	53.20	57.71		58.54	0.005914	8.32	104.65	41.54	0.72
US Route 1-DS02	6090	50-Year	772.10	53.20	58.09		59.06	0.006222	9.05	121.13	45.11	0.75
US Route 1-DS02	6090	100-Year	916.40	53.20	58.49	57.99	59.53	0.006084	9.47	140.13	49.12	0.75
US Route 1-DS02	6090	500-Year	1303.07	53.20	59.49	59.49	60.44	0.004773	9.49	212.97	98.07	0.69
US Route 1-DS02	6040	2-Year	234.51	48.67	54.50	52.58	55.38	0.014150	7.55	31.05	5.33	0.55
US Route 1-DS02	6040	10-Year	474.47	48.67	57.15	56.11	57.52	0.004377	5.19	106.20	42.07	0.31
US Route 1-DS02	6040	25-Year	626.82	48.67	57.63	56.55	58.09	0.004709	5.59	127.34	45.89	0.33
US Route 1-DS02	6040	50-Year	772.10	48.67	58.03	56.90	58.56	0.004948	5.89	145.98	50.71	0.34
US Route 1-DS02	6040	100-Year	916.40	48.67	58.49	57.19	59.02	0.004412	5.75	176.86	83.68	0.32
US Route 1-DS02	6040	500-Year	1303.07	48.67	59.51	58.07	59.85	0.002381	4.51	294.65	128.61	0.24
US Route 1-DS02	6027.5 Stone Footbridge		Bridge									
US Route 1-DS02	6015	2-Year	234.51	48.67	52.59	52.59	54.55	0.037873	11.24	20.87	5.33	1.00
US Route 1-DS02	6015	10-Year	474.47	48.67	56.19	56.19	57.09	0.013493	8.41	71.66	38.29	0.54
US Route 1-DS02	6015	25-Year	626.82	48.67	56.64	56.64	57.61	0.013907	8.88	90.03	43.55	0.55
US Route 1-DS02	6015	50-Year	772.10	48.67	56.98	56.98	58.03	0.014319	9.26	105.47	47.52	0.57
US Route 1-DS02	6015	100-Year	916.40	48.67	57.25	57.25	58.41	0.014747	9.60	118.73	50.12	0.58
US Route 1-DS02	6015	500-Year	1303.07	48.67	57.91	57.91	59.31	0.014849	10.12	153.55	56.27	0.59
US Route 1-DS02	5965	2-Year	234.51	48.00	50.52	50.52	51.48	0.012789	8.04	35.58	23.13	0.95
US Route 1-DS02	5965	10-Year	474.47	48.00	51.71	51.71	53.06	0.010849	9.86	67.60	30.06	0.94
US Route 1-DS02	5965	25-Year	626.82	48.00	52.29	52.29	53.86	0.010626	10.83	85.70	33.42	0.96
US Route 1-DS02	5965	50-Year	772.10	48.00	52.83	52.83	54.54	0.009993	11.44	104.81	37.14	0.95
US Route 1-DS02	5965	100-Year	916.40	48.00	53.28	53.28	55.16	0.009830	12.09	122.27	40.51	0.96
US Route 1-DS02	5965	500-Year	1303.07	48.00	54.44	54.44	56.55	0.008775	13.15	174.82	49.50	0.94
US Route 1-DS02	5805	2-Year	234.51	44.20	46.33	46.33	46.82	0.010415	6.14	49.40	54.78	0.83
US Route 1-DS02	5805	10-Year	474.47	44.20	47.01	47.01	47.55	0.008255	6.84	94.43	77.99	0.78
US Route 1-DS02	5805	25-Year	626.82	44.20	47.25	47.25	47.87	0.008438	7.38	113.88	81.61	0.80
US Route 1-DS02	5805	50-Year	772.10	44.20	47.46	47.46	48.13	0.008438	7.76	131.16	84.69	0.81
US Route 1-DS02	5805	100-Year	916.40	44.20	47.64	47.64	48.37	0.008469	8.10	146.84	87.39	0.82
US Route 1-DS02	5805	500-Year	1303.07	44.20	48.04	48.04	48.93	0.008838	8.99	182.64	93.54	0.86
US Route 1-DS02	5720	2-Year	234.51	42.60	44.72	44.72	44.94	0.006377	4.40	110.59	249.38	0.64
US Route 1-DS02	5720	10-Year	474.47	42.60	44.99	44.99	45.28	0.008618	5.71	178.27	252.93	0.76
US Route 1-DS02	5720	25-Year	626.82	42.60	45.10	45.10	45.45	0.010263	6.49	206.20	254.20	0.84
US Route 1-DS02	5720	50-Year	772.10	42.60	45.21	45.21	45.60	0.011024	6.99	234.02	255.45	0.88
US Route 1-DS02	5720	100-Year	916.40	42.60	45.32	45.32	45.73	0.011321	7.34	261.92	256.69	0.90
US Route 1-DS02	5720	500-Year	1303.07	42.60	45.53	45.53	46.05	0.013441	8.52	314.99	259.04	0.99
US Route 1-DS02	5635 FEMA "C"	2-Year	234.51	38.69	41.84	41.84	42.43	0.009417	6.84	41.79	79.21	0.73
US Route 1-DS02	5635 FEMA "C"	10-Year	474.47	38.69	42.56	42.56	43.37	0.010153	8.06	69.50	168.57	0.79
US Route 1-DS02	5635 FEMA "C"	25-Year	626.82	38.69	43.30	43.30	43.73	0.005049	6.52	163.17	222.49	0.57
US Route 1-DS02	5635 FEMA "C"	50-Year	772.10	38.69	43.88	43.46	44.08	0.002208	4.72	296.00	232.66	0.39
US Route 1-DS02	5635 FEMA "C"	100-Year	916.40	38.69	44.65	43.59	44.74	0.000911	3.36	480.50	249.71	0.26
US Route 1-DS02	5635 FEMA "C"	500-Year	1303.07	38.69	44.47	43.88	44.69	0.002397	5.33	435.11	245.47	0.41
US Route 1-DS02	5610	2-Year	234.51	37.20	39.36	39.36	40.11	0.012220	7.24	36.90	26.21	0.92
US Route 1-DS02	5610	10-Year	474.47	37.20	41.78	40.35	42.07	0.001851	4.84	121.96	46.48	0.41
US Route 1-DS02	5610	25-Year	626.82	37.20	43.38	40.84	43.46	0.000468	3.00	404.95	220.59	0.22
US Route 1-DS02	5610	50-Year	772.10	37.20	43.93	41.31	43.99	0.000347	2.74	528.30	228.42	0.19
US Route 1-DS02	5610	100-Year	916.40	37.20	44.66	41.62	44.70	0.000224	2.36	700.26	244.13	0.15
US Route 1-DS02	5610	500-Year	1303.07	37.20	44.51	42.94	44.60	0.000529	3.58	662.57	240.67	0.24
US Route 1-DS02	5570 Compo Rd North		Bridge									
US Route 1-DS02	5530	2-Year	234.51	34.64	38.39	36.84	38.59	0.002071	3.60	66.30	57.41	0.37
US Route 1-DS02	5530	10-Year	474.47	34.64	38.73	37.90	39.38	0.005927	6.50	74.74	64.67	0.64
US Route 1-DS02	5530	25-Year	626.82	34.64	38.91	38.40	39.93	0.008630	8.13	79.60	72.34	0.77
US Route 1-DS02	5530	50-Year	772.10	34.64	38.98	38.84	40.46	0.012244	9.81	81.65	75.27	0.92
US Route 1-DS02	5530	100-Year	916.40	34.64	39.31	39.31	41.02	0.012587	10.57	92.46	84.50	0.95
US Route 1-DS02	5530	500-Year	1303.07	34.64	40.31	40.31	42.32	0.011114	11.59	127.73	130.62	0.93
US Route 1-DS02	5480	2-Year	265.67	35.00	37.88	37.88	38.33	0.006730	6.25	64.54	127.89	0.70
US Route 1-DS02	5480	10-Year	555.59	35.00	38.48	38.48	38.99	0.006743	7.24	140.58	145.48	0.73
US Route 1-DS02	5480	25-Year	757.28	35.00	38.74	38.74	39.31	0.007096	7.84	178.82	149.28	0.76
US Route 1-DS02	5480	50-Year	938.68	35.00	38.92	38.92	39.56	0.007534	8.38	207.11	152.03	0.79
US Route 1-DS02	5480	100-Year	1121.32	35.00	39.09	39.09	39.80	0.008006	8.91	231.95	154.13	0.82
US Route 1-DS02	5480	500-Year	1634.59	35.00	39.58	39.53	40.38	0.007736	9.54	309.97	159.87	0.83
US Route 1-DS02	5325	2-Year	265.67	34.20	36.80	36.29	37.10	0.004605	4.83	122.43	173.15	0.58
US Route 1-DS02	5325	10-Year	555.59	34.20	37.54		37.86	0.004354	5.70	257.31	196.61	0.59
US Route 1-DS02	5325	25-Year	757.28	34.20	37.87		38.22	0.004556	6.27	325.15	210.29	0.61
US Route 1-DS02	5325	50-Year	938.68	34.20	38.11		38.49	0.004838	6.76	375.11	217.83	0.64
US Route 1-DS02	5325	100-Year	1121.32	34.20	38.33		38.73	0.004985	7.15	423.04	222.22	0.65
US Route 1-DS02	5325	500-Year	1634.59	34.20	38.79		39.28	0.005647	8.23	528.86	231.61	0.71
US Route 1-DS02	5170	2-Year	265.67	32.40	35.99		36.36	0.004741	6.11	97.74	109.55	0.61
US Route 1-DS02	5170	10-Year	555.59	32.40	36.60		37.05	0.006056	7.77	170.53	125.54	0.71
US Route 1-DS02	5170	25-Year	757.28	32.40	36.83		37.34	0.006867	8.61	200.30	129.96	0.76
US Route 1-DS02	5170	50-Year	938.68	32.40	37.04		37.57	0.007013	9.00	227.26	134.45	0.77

Deadman Brook Recommended Model

HEC-RAS Plan: Proposed (Continued)

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
US Route 1-DS02	5170	100-Year	1121.32	32.40	37.21		37.79	0.007251	9.40	251.34	140.39	0.79
US Route 1-DS02	5170	500-Year	1634.59	32.40	37.71		38.31	0.006751	9.75	325.11	157.18	0.78
US Route 1-DS02	5120	2-Year	265.67	30.50	35.93	33.39	36.11	0.002141	3.89	127.01	120.23	0.29
US Route 1-DS02	5120	10-Year	555.59	30.50	36.49	36.21	36.72	0.003204	5.08	200.78	140.46	0.37
US Route 1-DS02	5120	25-Year	757.28	30.50	36.67	36.41	36.97	0.004216	5.94	226.55	144.94	0.42
US Route 1-DS02	5120	50-Year	938.68	30.50	36.85	36.57	37.19	0.004618	6.35	253.90	149.56	0.44
US Route 1-DS02	5120	100-Year	1121.32	30.50	37.01	36.73	37.38	0.004999	6.71	278.01	153.54	0.46
US Route 1-DS02	5120	500-Year	1634.59	30.50	37.53	37.07	37.93	0.004685	6.84	360.96	167.19	0.45
US Route 1-DS02	5102.5	Driveway Bridge	Bridge									
US Route 1-DS02	5085	2-Year	265.67	30.50	35.04	33.39	35.62	0.006679	6.10	47.03	97.77	0.50
US Route 1-DS02	5085	10-Year	555.59	30.50	36.44		36.54	0.001033	2.87	231.16	162.34	0.21
US Route 1-DS02	5085	25-Year	757.28	30.50	36.37		36.57	0.002232	4.19	219.64	160.22	0.30
US Route 1-DS02	5085	50-Year	938.68	30.50	36.54		36.77	0.002426	4.45	246.64	165.47	0.32
US Route 1-DS02	5085	100-Year	1121.32	30.50	36.71		36.97	0.002470	4.57	275.57	171.90	0.32
US Route 1-DS02	5085	500-Year	1634.59	30.50	37.15		37.48	0.002440	4.76	355.34	187.63	0.32
US Route 1-DS02	5055	2-Year	265.67	30.50	34.68	33.39	35.38	0.008552	6.69	39.72	9.50	0.58
US Route 1-DS02	5055	10-Year	555.59	30.50	36.42	35.73	36.50	0.001073	2.92	244.92	174.37	0.21
US Route 1-DS02	5055	25-Year	757.28	30.50	36.30	35.98	36.50	0.002609	4.49	224.21	172.20	0.33
US Route 1-DS02	5055	50-Year	938.68	30.50	36.47	36.06	36.70	0.002746	4.69	253.78	175.29	0.34
US Route 1-DS02	5055	100-Year	1121.32	30.50	36.64	36.18	36.89	0.002747	4.79	284.43	178.43	0.34
US Route 1-DS02	5055	500-Year	1634.59	30.50	37.09	36.49	37.40	0.002623	4.90	366.39	186.78	0.34
US Route 1-DS02	5040	Footbridge	Bridge									
US Route 1-DS02	5025	2-Year	265.67	30.50	33.65	33.39	34.87	0.018713	8.89	29.90	9.50	0.88
US Route 1-DS02	5025	10-Year	555.59	30.50	36.38		36.46	0.000984	2.78	256.37	190.56	0.20
US Route 1-DS02	5025	25-Year	757.28	30.50	36.06		36.34	0.004073	5.45	196.25	185.13	0.41
US Route 1-DS02	5025	50-Year	938.68	30.50	36.27		36.55	0.003620	5.27	236.07	188.74	0.39
US Route 1-DS02	5025	100-Year	1121.32	30.50	36.46		36.74	0.003314	5.15	272.43	191.99	0.37
US Route 1-DS02	5025	500-Year	1634.59	30.50	36.90		37.23	0.002934	5.08	358.41	199.45	0.35
US Route 1-DS02	4990	2-Year	265.67	30.00	34.03		34.21	0.001481	3.87	161.69	118.37	0.35
US Route 1-DS02	4990	10-Year	555.59	30.00	36.37		36.42	0.000381	2.72	554.24	225.12	0.20
US Route 1-DS02	4990	25-Year	757.28	30.00	36.05		36.20	0.001067	4.40	484.31	215.19	0.32
US Route 1-DS02	4990	50-Year	938.68	30.00	36.25		36.42	0.001276	4.91	526.40	221.22	0.36
US Route 1-DS02	4990	100-Year	1121.32	30.00	36.42		36.62	0.001448	5.34	566.26	226.02	0.38
US Route 1-DS02	4990	500-Year	1634.59	30.00	36.86		37.10	0.001774	6.19	665.59	229.36	0.43
US Route 1-DS02	4950	2-Year	265.67	30.00	33.45	32.34	33.99	0.006609	5.93	44.80	13.00	0.56
US Route 1-DS02	4950	10-Year	555.59	30.00	36.37	33.83	36.40	0.000294	1.82	513.74	308.74	0.13
US Route 1-DS02	4950	25-Year	757.28	30.00	36.05	35.19	36.13	0.000983	3.21	434.14	275.25	0.23
US Route 1-DS02	4950	50-Year	938.68	30.00	36.24	35.39	36.34	0.001047	3.38	482.29	301.19	0.24
US Route 1-DS02	4950	100-Year	1121.32	30.00	36.42	35.53	36.53	0.001098	3.53	526.51	311.80	0.25
US Route 1-DS02	4950	500-Year	1634.59	30.00	36.85	35.83	37.00	0.001209	3.87	633.93	337.40	0.26
US Route 1-DS02	4931.77	Driveway Bridge	Bridge									
US Route 1-DS02	4915	2-Year	265.67	30.00	32.75		33.61	0.012726	7.43	35.75	13.00	0.79
US Route 1-DS02	4915	10-Year	555.59	30.00	33.79	33.79	35.76	0.021992	11.27	49.30	13.00	1.02
US Route 1-DS02	4915	25-Year	757.28	30.00	35.40	35.40	35.90	0.005383	6.96	283.60	253.94	0.53
US Route 1-DS02	4915	50-Year	938.68	30.00	35.61	35.61	36.10	0.005712	7.35	336.34	269.56	0.55
US Route 1-DS02	4915	100-Year	1121.32	30.00	35.76	35.76	36.28	0.006202	7.81	378.12	286.04	0.57
US Route 1-DS02	4915	500-Year	1634.59	30.00	36.11	36.11	36.70	0.007489	8.92	473.65	325.11	0.64
US Route 1-DS02	4910	2-Year	265.67	30.00	32.95	31.85	33.31	0.004329	4.82	56.04	28.80	0.49
US Route 1-DS02	4910	10-Year	555.59	30.00	34.46	33.12	34.85	0.003211	5.47	219.99	229.84	0.46
US Route 1-DS02	4910	25-Year	757.28	30.00	34.59	34.59	35.16	0.004864	6.87	249.47	234.14	0.56
US Route 1-DS02	4910	50-Year	938.68	30.00	34.82	34.82	35.41	0.005156	7.31	304.68	241.67	0.59
US Route 1-DS02	4910	100-Year	1121.32	30.00	35.14	35.03	35.63	0.004481	7.11	383.37	250.71	0.55
US Route 1-DS02	4910	500-Year	1634.59	30.00	36.23	35.42	36.47	0.002264	5.74	670.70	337.77	0.41
US Route 1-DS02	4895	Footbridge	Bridge									
US Route 1-DS02	4880	2-Year	265.67	30.00	32.68	31.88	32.88	0.003166	4.10	120.22	98.09	0.44
US Route 1-DS02	4880	10-Year	555.59	30.00	33.64	32.86	33.87	0.002973	4.87	229.97	130.16	0.45
US Route 1-DS02	4880	25-Year	757.28	30.00	34.21	33.26	34.43	0.002441	4.87	307.58	199.51	0.42
US Route 1-DS02	4880	50-Year	938.68	30.00	34.68	33.53	34.89	0.002140	4.88	371.99	217.86	0.40
US Route 1-DS02	4880	100-Year	1121.32	30.00	35.12	33.81	35.31	0.001788	4.74	463.15	235.14	0.37
US Route 1-DS02	4880	500-Year	1634.59	30.00	36.21	34.25	36.34	0.000988	4.01	732.52	331.60	0.28
US Route 1-DS02	4830	2-Year	265.67	29.00	32.68	31.21	32.75	0.000724	2.53	268.44	170.55	0.24
US Route 1-DS02	4830	10-Year	555.59	29.00	33.63	32.14	33.72	0.000947	3.42	437.50	185.04	0.29
US Route 1-DS02	4830	25-Year	757.28	29.00	34.19	32.50	34.31	0.001007	3.83	544.03	196.78	0.31
US Route 1-DS02	4830	50-Year	938.68	29.00	34.65	32.69	34.78	0.001057	4.17	637.68	214.46	0.32
US Route 1-DS02	4830	100-Year	1121.32	29.00	35.07	32.91	35.22	0.001078	4.44	732.55	230.75	0.33
US Route 1-DS02	4830	500-Year	1634.59	29.00	36.15	33.44	36.29	0.000938	4.64	1002.19	267.25	0.31
US Route 1-DS02	4760	2-Year	265.67	30.40	32.29	32.02	32.61	0.007523	4.66	61.14	51.08	0.69
US Route 1-DS02	4760	10-Year	555.59	30.40	32.68	32.68	33.50	0.013906	7.45	81.76	54.21	0.97

Deadman Brook Recommended Model

HEC-RAS Plan: Proposed (Continued)

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
US Route 1-DS02	4760	25-Year	757.28	30.40	33.05	33.05	34.06	0.013323	8.26	102.66	57.22	0.98
US Route 1-DS02	4760	50-Year	938.68	30.40	33.37	33.37	34.51	0.012767	8.84	121.09	59.74	0.98
US Route 1-DS02	4760	100-Year	1121.32	30.40	33.66	33.66	34.94	0.012377	9.37	138.89	62.07	0.99
US Route 1-DS02	4760	500-Year	1634.59	30.40	34.41	34.41	36.00	0.011417	10.54	187.42	66.49	0.99
US Route 1-DS02	4555	2-Year	265.67	29.00	29.86	29.86	30.17	0.021582	4.48	59.36	97.48	1.01
US Route 1-DS02	4555	10-Year	555.59	29.00	31.57		31.65	0.000994	2.34	266.15	155.48	0.27
US Route 1-DS02	4555	25-Year	757.28	29.00	32.98		33.03	0.000334	1.86	515.70	199.89	0.17
US Route 1-DS02	4555	50-Year	938.68	29.00	32.87		32.95	0.000572	2.39	494.17	196.40	0.22
US Route 1-DS02	4555	100-Year	1121.32	29.00	33.03		33.13	0.000699	2.71	525.41	201.17	0.25
US Route 1-DS02	4555	500-Year	1634.59	29.00	33.42		33.59	0.001032	3.52	605.73	219.27	0.30
US Route 1-DS02	4355	2-Year	265.67	25.80	29.25	27.64	29.31	0.000688	2.39	217.67	107.12	0.24
US Route 1-DS02	4355	10-Year	555.59	25.80	31.49	28.38	31.54	0.000322	2.33	523.49	182.58	0.18
US Route 1-DS02	4355	25-Year	757.28	25.80	32.95	28.76	32.98	0.000152	1.88	840.30	237.89	0.13
US Route 1-DS02	4355	50-Year	938.68	25.80	32.82	29.02	32.87	0.000262	2.44	809.21	234.98	0.17
US Route 1-DS02	4355	100-Year	1121.32	25.80	32.97	29.36	33.03	0.000330	2.77	843.67	238.21	0.19
US Route 1-DS02	4355	500-Year	1634.59	25.80	33.33	29.95	33.43	0.000520	3.61	930.63	244.71	0.24
US Route 1-DS02	4305	2-Year	265.67	24.90	28.03	27.30	28.71	0.009196	6.65	40.09	16.67	0.67
US Route 1-DS02	4305	10-Year	555.59	24.90	30.65	29.06	31.20	0.003851	6.38	116.38	94.04	0.47
US Route 1-DS02	4305	25-Year	757.28	24.90	32.87	29.90	32.92	0.000423	2.63	693.53	462.64	0.16
US Route 1-DS02	4305	50-Year	938.68	24.90	32.63	30.43	32.74	0.000975	3.91	583.77	436.56	0.25
US Route 1-DS02	4305	100-Year	1121.32	24.90	32.74	31.22	32.87	0.001141	4.28	636.01	449.16	0.27
US Route 1-DS02	4305	500-Year	1634.59	24.90	33.05	32.43	33.21	0.001494	5.02	780.51	498.25	0.31
US Route 1-DS02	4280 Evergreen Ave	Bridge										
US Route 1-DS02	4255	2-Year	265.67	22.67	27.81	25.19	28.05	0.002331	3.99	69.86	20.30	0.31
US Route 1-DS02	4255	10-Year	555.59	22.67	28.90	26.86	29.48	0.004451	6.28	94.00	33.64	0.45
US Route 1-DS02	4255	25-Year	757.28	22.67	29.39	27.95	30.22	0.005829	7.57	105.46	43.21	0.52
US Route 1-DS02	4255	50-Year	938.68	22.67	29.66	28.73	30.79	0.007464	8.79	111.80	48.89	0.59
US Route 1-DS02	4255	100-Year	1121.32	22.67	30.33	29.20	31.14	0.005701	8.17	175.07	147.25	0.52
US Route 1-DS02	4255	500-Year	1634.59	22.67	31.34	30.91	31.91	0.003743	7.20	286.32	204.73	0.43
US Route 1-DS02	4200	2-Year	265.67	25.00	27.02	27.02	27.76	0.013749	7.01	39.50	27.53	0.95
US Route 1-DS02	4200	10-Year	555.59	25.00	28.00	28.00	29.08	0.011434	8.65	69.10	33.19	0.93
US Route 1-DS02	4200	25-Year	757.28	25.00	28.56	28.56	29.79	0.010312	9.34	89.10	37.49	0.92
US Route 1-DS02	4200	50-Year	938.68	25.00	29.04	29.04	30.34	0.009248	9.70	107.96	40.96	0.89
US Route 1-DS02	4200	100-Year	1121.32	25.00	30.31	29.39	30.84	0.003126	6.86	232.95	192.90	0.54
US Route 1-DS02	4200	500-Year	1634.59	25.00	31.46	30.52	31.70	0.001321	5.12	485.52	244.08	0.36
US Route 1-DS02	4030	2-Year	265.67	24.00	26.63		26.68	0.000845	2.12	154.23	113.12	0.25
US Route 1-DS02	4030	10-Year	555.59	24.00	27.99		28.04	0.000408	2.02	327.44	144.65	0.19
US Route 1-DS02	4030	25-Year	757.28	24.00	28.56		28.62	0.000386	2.16	411.60	148.56	0.19
US Route 1-DS02	4030	50-Year	938.68	24.00	28.98		29.05	0.000389	2.31	473.89	151.33	0.19
US Route 1-DS02	4030	100-Year	1121.32	24.00	30.58		30.62	0.000158	1.80	729.92	169.59	0.13
US Route 1-DS02	4030	500-Year	1634.59	24.00	31.52		31.58	0.000186	2.14	894.91	182.02	0.14
US Route 1-DS01	3870	2-Year	260.02	22.80	26.56	25.00	26.59	0.000333	1.72	177.37	88.24	0.17
US Route 1-DS01	3870	10-Year	549.83	22.80	27.94	25.57	27.99	0.000240	1.84	331.32	123.14	0.15
US Route 1-DS01	3870	25-Year	753.49	22.80	28.52	25.87	28.57	0.000248	2.02	402.73	125.79	0.15
US Route 1-DS01	3870	50-Year	931.16	22.80	28.93	26.09	29.00	0.000261	2.18	455.16	127.91	0.16
US Route 1-DS01	3870	100-Year	1112.01	22.80	30.56	26.30	30.60	0.000113	1.70	680.88	161.20	0.11
US Route 1-DS01	3870	500-Year	1628.50	22.80	31.50	26.86	31.55	0.000140	2.05	847.20	188.73	0.13
US Route 1-DS01	3815	2-Year	260.02	21.00	26.48	24.20	26.56	0.001016	2.65	128.86	75.73	0.20
US Route 1-DS01	3815	10-Year	549.83	21.00	27.88	26.10	27.96	0.000778	2.70	252.13	110.16	0.18
US Route 1-DS01	3815	25-Year	753.49	21.00	28.44	26.39	28.54	0.000829	2.94	317.67	119.94	0.19
US Route 1-DS01	3815	50-Year	931.16	21.00	28.85	26.62	28.96	0.000879	3.13	367.27	124.82	0.20
US Route 1-DS01	3815	100-Year	1112.01	21.00	30.52	26.83	30.59	0.000376	2.33	594.26	149.76	0.13
US Route 1-DS01	3815	500-Year	1628.50	21.00	31.43	27.39	31.53	0.000468	2.76	740.76	172.21	0.15
US Route 1-DS01	3802.5 Footbridge	Bridge										
US Route 1-DS01	3790	2-Year	260.02	21.00	25.22	24.20	26.10	0.011778	7.58	40.69	41.76	0.65
US Route 1-DS01	3790	10-Year	549.83	21.00	26.65	26.65	27.59	0.011203	8.98	126.59	81.80	0.67
US Route 1-DS01	3790	25-Year	753.49	21.00	27.24	27.24	28.18	0.011228	9.60	180.26	99.15	0.68
US Route 1-DS01	3790	50-Year	931.16	21.00	27.59	27.59	28.59	0.011916	10.27	217.12	107.90	0.70
US Route 1-DS01	3790	100-Year	1112.01	21.00	30.37	27.90	30.53	0.001781	5.02	566.74	143.85	0.29
US Route 1-DS01	3790	500-Year	1628.50	21.00	31.25	28.62	31.46	0.002306	6.06	701.84	163.47	0.33
US Route 1-DS01	3765	2-Year	260.02	20.44	25.42	23.53	25.67	0.002862	4.48	118.13	94.81	0.37
US Route 1-DS01	3765	10-Year	549.83	20.44	26.38	25.69	26.74	0.004020	6.02	215.25	106.71	0.45
US Route 1-DS01	3765	25-Year	753.49	20.44	26.82	26.13	27.25	0.004775	6.90	263.64	111.78	0.49
US Route 1-DS01	3765	50-Year	931.16	20.44	27.17	26.45	27.65	0.005271	7.52	302.54	115.75	0.52
US Route 1-DS01	3765	100-Year	1112.01	20.44	30.38	26.72	30.47	0.000783	3.81	751.26	162.30	0.22
US Route 1-DS01	3765	500-Year	1628.50	20.44	31.26	27.39	31.38	0.001060	4.69	899.40	175.59	0.26
US Route 1-DS01	3752.5 Footbridge	Bridge										
US Route 1-DS01	3740	2-Year	260.02	20.44	24.49	23.52	25.24	0.009369	6.98	41.32	101.96	0.64
US Route 1-DS01	3740	10-Year	549.83	20.44	25.73		26.29	0.007019	7.32	184.33	129.93	0.58

Deadman Brook Recommended Model

HEC-RAS Plan: Proposed (Continued)

Reach	River Sta		Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
US Route 1-DS01	3740		25-Year	753.49	20.44	26.30		26.79	0.006233	7.43	261.33	136.11	0.56
US Route 1-DS01	3740		50-Year	931.16	20.44	26.68		27.16	0.006228	7.75	312.58	139.95	0.56
US Route 1-DS01	3740		100-Year	1112.01	20.44	30.35		30.41	0.000550	3.18	891.34	173.62	0.18
US Route 1-DS01	3740		500-Year	1628.50	20.44	31.22		31.30	0.000761	3.96	1044.89	182.19	0.22
US Route 1-DS01	3685	FEMA "B"	2-Year	260.02	21.60	24.52		24.73	0.002280	3.82	104.26	96.97	0.42
US Route 1-DS01	3685	FEMA "B"	10-Year	549.83	21.60	25.66		25.94	0.002173	4.75	220.79	106.43	0.43
US Route 1-DS01	3685	FEMA "B"	25-Year	753.49	21.60	26.16		26.51	0.002403	5.44	275.09	110.22	0.46
US Route 1-DS01	3685	FEMA "B"	50-Year	931.16	21.60	26.48		26.90	0.002719	6.07	310.62	113.17	0.50
US Route 1-DS01	3685	FEMA "B"	100-Year	1112.01	21.60	30.29		30.38	0.000307	3.06	859.30	162.55	0.19
US Route 1-DS01	3685	FEMA "B"	500-Year	1628.50	21.60	31.12		31.25	0.000440	3.90	995.07	166.01	0.23
US Route 1-DS01	3465		2-Year	260.02	21.00	24.40		24.46	0.000586	2.18	173.81	103.29	0.22
US Route 1-DS01	3465		10-Year	549.83	21.00	25.59		25.67	0.000532	2.58	310.25	121.58	0.22
US Route 1-DS01	3465		25-Year	753.49	21.00	26.11		26.20	0.000585	2.91	373.73	126.07	0.23
US Route 1-DS01	3465		50-Year	931.16	21.00	26.43		26.54	0.000665	3.24	414.98	129.93	0.25
US Route 1-DS01	3465		100-Year	1112.01	21.00	30.30		30.33	0.000077	1.60	997.58	169.17	0.09
US Route 1-DS01	3465		500-Year	1628.50	21.00	31.13		31.18	0.000112	2.06	1141.60	176.44	0.12
US Route 1-DS01	3305		2-Year	260.02	21.00	24.41	21.72	24.42	0.000070	0.73	378.58	146.45	0.07
US Route 1-DS01	3305		10-Year	549.83	21.00	25.60	22.16	25.62	0.000098	1.06	563.44	160.06	0.09
US Route 1-DS01	3305		25-Year	753.49	21.00	26.12	22.50	26.14	0.000122	1.27	646.88	163.32	0.10
US Route 1-DS01	3305		50-Year	931.16	21.00	26.44	22.68	26.47	0.000148	1.46	700.62	166.54	0.11
US Route 1-DS01	3305		100-Year	1112.01	21.00	30.31	22.84	30.32	0.000027	0.90	1394.56	190.05	0.05
US Route 1-DS01	3305		500-Year	1628.50	21.00	31.14	23.26	31.16	0.000042	1.19	1555.58	194.78	0.07
US Route 1-DS01	3255		2-Year	260.02	21.00	23.41	23.41	24.18	0.012797	7.21	47.69	48.09	0.82
US Route 1-DS01	3255		10-Year	549.83	21.00	24.62	24.62	25.38	0.009504	7.99	121.10	81.40	0.74
US Route 1-DS01	3255		25-Year	753.49	21.00	24.99	24.99	25.87	0.010381	8.92	154.07	93.97	0.79
US Route 1-DS01	3255		50-Year	931.16	21.00	25.48	25.48	26.23	0.008347	8.63	211.08	124.52	0.72
US Route 1-DS01	3255		100-Year	1112.01	21.00	30.27	25.70	30.31	0.000124	1.71	1006.50	195.69	0.10
US Route 1-DS01	3255		500-Year	1628.50	21.00	31.10	26.24	31.15	0.000167	2.10	1170.36	203.32	0.12
US Route 1-DS01	3250	Dam		Culvert									
US Route 1-DS01	3245		2-Year	260.02	15.50	20.23		20.46	0.002037	3.85	67.59	14.30	0.31
US Route 1-DS01	3245		10-Year	549.83	15.50	20.92		21.71	0.006207	7.09	77.58	14.30	0.54
US Route 1-DS01	3245		25-Year	753.49	15.50	21.47		22.68	0.008981	8.83	85.31	14.30	0.64
US Route 1-DS01	3245		50-Year	931.16	15.50	22.65		23.94	0.008425	9.11	102.22	14.30	0.60
US Route 1-DS01	3245		100-Year	1112.01	15.50	30.28		30.31	0.000119	1.65	1014.99	198.52	0.08
US Route 1-DS01	3245		500-Year	1628.50	15.50	31.11		31.15	0.000169	2.04	1182.45	206.94	0.09
US Route 1-DS01	3240		2-Year	260.02	15.50	20.22	17.67	20.45	0.002039	3.85	67.55	14.30	0.31
US Route 1-DS01	3240		10-Year	549.83	15.50	20.92	19.07	21.70	0.006233	7.10	77.46	14.30	0.54
US Route 1-DS01	3240		25-Year	753.49	15.50	21.45	19.90	22.67	0.009036	8.85	85.12	14.30	0.64
US Route 1-DS01	3240		50-Year	931.16	15.50	22.63	20.57	23.93	0.008469	9.13	102.01	14.30	0.60
US Route 1-DS01	3240		100-Year	1112.01	15.50	30.28	21.22	30.31	0.000099	1.51	1011.37	198.98	0.07
US Route 1-DS01	3240		500-Year	1628.50	15.50	31.10	22.86	31.15	0.000138	1.85	1178.84	207.55	0.08
US Route 1-DS01	3227.5	Driveway Bridge		Bridge									
US Route 1-DS01	3215		2-Year	260.02	15.50	20.16		20.40	0.002075	3.90	67.45	19.85	0.32
US Route 1-DS01	3215		10-Year	549.83	15.50	20.70		21.53	0.006357	7.34	79.30	24.30	0.57
US Route 1-DS01	3215		25-Year	753.49	15.50	20.97	19.91	22.35	0.009916	9.48	86.34	26.60	0.71
US Route 1-DS01	3215		50-Year	931.16	15.50	21.10	20.81	23.09	0.013910	11.41	89.83	27.42	0.85
US Route 1-DS01	3215		100-Year	1112.01	15.50	21.58	21.58	23.88	0.014656	12.36	103.54	30.24	0.88
US Route 1-DS01	3215		500-Year	1628.50	15.50	23.01	23.01	25.74	0.013911	13.86	157.09	54.58	0.89
US Route 1-DS01	3160		2-Year	260.02	17.00	19.57	19.57	20.08	0.010464	7.16	91.05	91.78	0.82
US Route 1-DS01	3160		10-Year	549.83	17.00	20.35	20.31	20.95	0.010401	8.66	176.25	119.98	0.86
US Route 1-DS01	3160		25-Year	753.49	17.00	20.79		21.40	0.009968	9.23	229.95	129.08	0.86
US Route 1-DS01	3160		50-Year	931.16	17.00	21.15		21.75	0.009224	9.47	278.52	135.45	0.84
US Route 1-DS01	3160		100-Year	1112.01	17.00	21.46		22.08	0.008946	9.81	321.22	139.23	0.84
US Route 1-DS01	3160		500-Year	1628.50	17.00	22.26		22.91	0.008261	10.58	436.69	149.55	0.83
US Route 1-DS01	3125		2-Year	268.06	16.60	19.24	19.24	19.76	0.007720	6.35	80.74	113.82	0.75
US Route 1-DS01	3125		10-Year	566.44	16.60	19.95	19.95	20.62	0.008680	8.08	165.90	129.37	0.83
US Route 1-DS01	3125		25-Year	776.34	16.60	20.31	20.31	21.06	0.009096	8.93	213.66	134.49	0.86
US Route 1-DS01	3125		50-Year	960.79	16.60	20.54	20.54	21.40	0.009981	9.78	244.90	137.16	0.91
US Route 1-DS01	3125		100-Year	1150.06	16.60	20.79	20.79	21.72	0.010204	10.36	280.09	140.10	0.94
US Route 1-DS01	3125		500-Year	1697.38	16.60	21.37	21.37	22.53	0.011491	12.07	362.65	148.42	1.02
US Route 1-DS01	3065		2-Year	268.06	13.83	18.62	18.09	18.89	0.004562	4.72	74.90	96.92	0.38
US Route 1-DS01	3065		10-Year	566.44	13.83	19.35	19.21	19.66	0.006266	6.08	151.81	125.77	0.46
US Route 1-DS01	3065		25-Year	776.34	13.83	19.61	19.41	19.97	0.006537	6.41	185.65	130.78	0.47
US Route 1-DS01	3065		50-Year	960.79	13.83	19.84	19.57	20.23	0.006377	6.50	216.13	135.13	0.47
US Route 1-DS01	3065		100-Year	1150.06	13.83	20.06	19.72	20.48	0.006259	6.59	245.18	138.94	0.47
US Route 1-DS01	3065		500-Year	1697.38	13.83	20.96	20.12	21.34	0.003676	5.52	376.85	152.60	0.36
US Route 1-DS01	3052.5	Footbridge		Bridge									
US Route 1-DS01	3040		2-Year	268.06	13.83	18.23	18.23	18.57	0.008022	5.91	66.48	81.00	0.50
US Route 1-DS01	3040		10-Year	566.44	13.83	18.76		19.20	0.008375	6.52	110.69	86.19	0.52

Deadman Brook Recommended Model

HEC-RAS Plan: Proposed (Continued)

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
US Route 1-DS01	3040	25-Year	776.34	13.83	19.25		19.65	0.005758	5.76	154.07	91.25	0.44
US Route 1-DS01	3040	50-Year	960.79	13.83	19.48		19.96	0.005902	5.99	175.67	93.79	0.44
US Route 1-DS01	3040	100-Year	1150.06	13.83	19.78		20.29	0.005333	5.90	204.23	97.04	0.43
US Route 1-DS01	3040	500-Year	1697.38	13.83	20.61		21.17	0.004004	5.58	287.82	103.76	0.38
US Route 1-DS01	2990	2-Year	268.06	14.00	17.69	17.66	18.09	0.004685	6.30	69.23	87.46	0.60
US Route 1-DS01	2990	10-Year	566.44	14.00	18.69		18.89	0.002212	5.14	184.30	132.88	0.43
US Route 1-DS01	2990	25-Year	776.34	14.00	19.24		19.40	0.001562	4.67	261.28	145.41	0.37
US Route 1-DS01	2990	50-Year	960.79	14.00	19.50		19.68	0.001592	4.87	298.83	147.56	0.38
US Route 1-DS01	2990	100-Year	1150.06	14.00	19.82		20.01	0.001443	4.83	347.15	150.28	0.36
US Route 1-DS01	2990	500-Year	1697.38	14.00	20.70		20.90	0.001116	4.69	484.30	161.69	0.33
US Route 1-DS01	2840	2-Year	268.06	14.20	17.30		17.53	0.002693	4.42	91.77	76.02	0.46
US Route 1-DS01	2840	10-Year	566.44	14.20	18.30		18.55	0.002339	5.01	186.40	111.36	0.45
US Route 1-DS01	2840	25-Year	776.34	14.20	18.91		19.14	0.001902	4.97	258.89	127.13	0.41
US Route 1-DS01	2840	50-Year	960.79	14.20	19.09		19.39	0.002299	5.62	282.60	130.78	0.46
US Route 1-DS01	2840	100-Year	1150.06	14.20	19.43		19.74	0.002167	5.71	327.62	135.54	0.45
US Route 1-DS01	2840	500-Year	1697.38	14.20	20.35		20.68	0.001814	5.84	457.35	146.34	0.42
US Route 1-DS01	2790	2-Year	268.06	11.67	17.22	14.48	17.39	0.001808	3.65	107.86	86.19	0.27
US Route 1-DS01	2790	10-Year	566.44	11.67	18.21	17.25	18.42	0.002099	4.38	203.72	106.80	0.30
US Route 1-DS01	2790	25-Year	776.34	11.67	18.82	17.64	19.04	0.001957	4.49	275.82	130.04	0.30
US Route 1-DS01	2790	50-Year	960.79	11.67	18.98	17.93	19.27	0.002525	5.17	296.23	133.37	0.34
US Route 1-DS01	2790	100-Year	1150.06	11.67	19.30	18.17	19.62	0.002575	5.38	340.57	142.45	0.34
US Route 1-DS01	2790	500-Year	1697.38	11.67	20.20	18.76	20.57	0.002364	5.55	477.28	156.60	0.33
US Route 1-DS01	2777.5 Footbridge		Bridge									
US Route 1-DS01	2765	2-Year	268.06	11.67	16.45	14.48	16.93	0.005175	5.58	50.79	42.30	0.45
US Route 1-DS01	2765	10-Year	566.44	11.67	17.32	17.32	18.10	0.008188	7.85	107.84	76.87	0.58
US Route 1-DS01	2765	25-Year	776.34	11.67	18.55		18.91	0.003319	5.70	234.39	120.19	0.38
US Route 1-DS01	2765	50-Year	960.79	11.67	18.34	18.00	19.02	0.006516	7.82	209.27	116.36	0.53
US Route 1-DS01	2765	100-Year	1150.06	11.67	18.77		19.39	0.005714	7.64	260.96	124.37	0.51
US Route 1-DS01	2765	500-Year	1697.38	11.67	19.86		20.41	0.004132	7.14	411.92	145.06	0.44
US Route 1-DS01	2715	2-Year	268.06	13.60	16.48		16.61	0.001749	3.22	119.29	91.90	0.36
US Route 1-DS01	2715	10-Year	566.44	13.60	17.35		17.55	0.001896	4.10	205.79	105.04	0.40
US Route 1-DS01	2715	25-Year	776.34	13.60	18.58		18.72	0.000868	3.42	348.29	131.89	0.28
US Route 1-DS01	2715	50-Year	960.79	13.60	18.42		18.66	0.001577	4.50	326.30	129.76	0.38
US Route 1-DS01	2715	100-Year	1150.06	13.60	18.82		19.08	0.001515	4.68	379.81	134.89	0.38
US Route 1-DS01	2715	500-Year	1697.38	13.60	19.88		20.17	0.001361	5.06	527.11	143.74	0.37
US Route 1-DS01	2595	2-Year	268.06	12.00	16.43		16.49	0.000503	2.41	178.58	98.36	0.21
US Route 1-DS01	2595	10-Year	566.44	12.00	17.28		17.39	0.000731	3.29	266.50	108.48	0.26
US Route 1-DS01	2595	25-Year	776.34	12.00	18.56		18.64	0.000390	2.81	413.99	120.89	0.20
US Route 1-DS01	2595	50-Year	960.79	12.00	18.36		18.50	0.000707	3.70	390.60	119.47	0.27
US Route 1-DS01	2595	100-Year	1150.06	12.00	18.77		18.93	0.000721	3.90	439.54	122.43	0.27
US Route 1-DS01	2595	500-Year	1697.38	12.00	19.82		20.03	0.000738	4.37	572.61	129.95	0.28
US Route 1-DS01	2540	2-Year	268.06	10.62	16.22	14.15	16.40	0.002255	3.96	110.20	100.93	0.31
US Route 1-DS01	2540	10-Year	566.44	10.62	17.08	16.40	17.29	0.002405	4.53	201.87	113.39	0.32
US Route 1-DS01	2540	25-Year	776.34	10.62	18.48	16.66	18.60	0.000841	3.08	372.54	127.84	0.20
US Route 1-DS01	2540	50-Year	960.79	10.62	18.22	16.88	18.43	0.001694	4.26	338.34	125.84	0.28
US Route 1-DS01	2540	100-Year	1150.06	10.62	18.62	17.11	18.85	0.001616	4.32	390.14	128.86	0.28
US Route 1-DS01	2540	500-Year	1697.38	10.62	19.68	17.62	19.95	0.001449	4.46	530.56	136.65	0.27
US Route 1-DS01	2532.5 Footbridge		Bridge									
US Route 1-DS01	2525 FEMA "A"	2-Year	268.06	10.62	15.56	14.15	16.13	0.006900	6.33	56.04	60.63	0.52
US Route 1-DS01	2525 FEMA "A"	10-Year	566.44	10.62	16.58	16.36	17.12	0.006281	6.91	134.25	86.44	0.52
US Route 1-DS01	2525 FEMA "A"	25-Year	776.34	10.62	18.37		18.55	0.001440	3.99	316.03	114.59	0.26
US Route 1-DS01	2525 FEMA "A"	50-Year	960.79	10.62	17.91	17.00	18.30	0.003498	5.95	264.32	109.66	0.40
US Route 1-DS01	2525 FEMA "A"	100-Year	1150.06	10.62	18.32	17.25	18.73	0.003306	6.01	310.67	114.16	0.39
US Route 1-DS01	2525 FEMA "A"	500-Year	1697.38	10.62	19.39	17.92	19.84	0.002883	6.15	437.67	123.08	0.37
US Route 1-DS01	2475	2-Year	268.06	13.00	15.47		15.78	0.003017	3.95	65.90	46.61	0.47
US Route 1-DS01	2475	10-Year	566.44	13.00	16.20	15.74	16.85	0.003562	5.19	113.25	84.64	0.53
US Route 1-DS01	2475	25-Year	776.34	13.00	18.24		18.48	0.000580	2.97	327.81	113.67	0.23
US Route 1-DS01	2475	50-Year	960.79	13.00	16.74	16.72	17.88	0.004701	6.66	162.74	99.96	0.63
US Route 1-DS01	2475	100-Year	1150.06	13.00	17.10	17.10	18.30	0.004282	6.78	200.31	108.08	0.61
US Route 1-DS01	2475	500-Year	1697.38	13.00	17.81	17.81	19.33	0.004247	7.56	278.80	112.25	0.62
US Route 1-DS01	2420	2-Year	268.06	13.00	15.17		15.54	0.006984	5.22	57.52	51.53	0.68
US Route 1-DS01	2420	10-Year	566.44	13.00	16.20		16.58	0.003528	5.00	121.79	73.04	0.52
US Route 1-DS01	2420	25-Year	776.34	13.00	18.33		18.41	0.000332	2.22	429.96	189.33	0.18
US Route 1-DS01	2420	50-Year	960.79	13.00	16.98	16.27	17.49	0.003033	5.44	202.42	143.85	0.50
US Route 1-DS01	2420	100-Year	1150.06	13.00	17.41		17.86	0.002300	5.11	267.88	159.04	0.45
US Route 1-DS01	2420	500-Year	1697.38	13.00	18.37		18.74	0.001529	4.79	436.30	190.07	0.38
US Route 1-DS01	2400	2-Year	268.06	8.45	15.31	11.71	15.36	0.000450	1.93	161.35	84.43	0.13
US Route 1-DS01	2400	10-Year	566.44	8.45	16.33	14.58	16.41	0.000508	2.25	252.27	96.35	0.14
US Route 1-DS01	2400	25-Year	776.34	8.45	18.35	14.89	18.39	0.000112	1.23	550.80	190.68	0.07
US Route 1-DS01	2400	50-Year	960.79	8.45	17.14	15.07	17.28	0.000607	2.62	344.13	141.43	0.16

Deadman Brook Recommended Model

HEC-RAS Plan: Proposed (Continued)

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
US Route 1-DS01	2400	100-Year	1150.06	8.45	17.54	15.27	17.69	0.000567	2.61	404.52	161.16	0.15
US Route 1-DS01	2400	500-Year	1697.38	8.45	18.46	15.76	18.62	0.000481	2.57	571.27	191.48	0.14
US Route 1-DS01	2387.5 Footbridge		Bridge									
US Route 1-DS01	2375	2-Year	268.06	8.45	15.21		15.31	0.000904	2.71	110.02	59.30	0.18
US Route 1-DS01	2375	10-Year	566.44	8.45	16.12		16.31	0.001126	3.29	167.22	67.09	0.21
US Route 1-DS01	2375	25-Year	776.34	8.45	18.29		18.36	0.000193	1.61	431.19	167.20	0.09
US Route 1-DS01	2375	50-Year	960.79	8.45	16.67		17.08	0.001838	4.40	209.11	93.68	0.27
US Route 1-DS01	2375	100-Year	1150.06	8.45	16.99		17.46	0.001855	4.54	244.03	115.75	0.27
US Route 1-DS01	2375	500-Year	1697.38	8.45	18.04	16.17	18.46	0.001204	3.95	390.19	161.62	0.22
US Route 1-DS01	2355	2-Year	268.06	12.80	14.85		15.20	0.006996	5.27	59.18	59.51	0.69
US Route 1-DS01	2355	10-Year	566.44	12.80	15.92		16.24	0.003014	4.70	126.81	66.42	0.49
US Route 1-DS01	2355	25-Year	776.34	12.80	18.29		18.36	0.000265	2.07	403.06	180.36	0.16
US Route 1-DS01	2355	50-Year	960.79	12.80	15.88	15.88	16.84	0.009322	8.18	123.87	66.13	0.85
US Route 1-DS01	2355	100-Year	1150.06	12.80	16.14	16.14	17.20	0.008941	8.49	141.23	68.28	0.85
US Route 1-DS01	2355	500-Year	1697.38	12.80	16.79	16.79	18.13	0.008285	9.27	187.84	74.73	0.84
US Route 1-DS01	2330	2-Year	268.06	12.60	14.68	14.68	15.01	0.006982	5.37	66.00	85.56	0.69
US Route 1-DS01	2330	10-Year	566.44	12.60	15.99		16.14	0.001330	3.32	188.80	105.23	0.33
US Route 1-DS01	2330	25-Year	776.34	12.60	18.31		18.34	0.000132	1.50	531.98	200.13	0.11
US Route 1-DS01	2330	50-Year	960.79	12.60	15.63	15.53	16.28	0.007396	7.23	151.76	98.55	0.75
US Route 1-DS01	2330	100-Year	1150.06	12.60	15.92	15.74	16.58	0.006236	7.08	180.87	103.84	0.70
US Route 1-DS01	2330	500-Year	1697.38	12.60	16.69		17.37	0.004228	6.75	266.63	117.41	0.60
US Route 1-DS01	2310	2-Year	268.06	10.58	14.52	13.85	14.64	0.001725	3.59	105.74	85.04	0.32
US Route 1-DS01	2310	10-Year	566.44	10.58	16.00	14.55	16.09	0.000628	2.68	241.22	97.58	0.20
US Route 1-DS01	2310	25-Year	776.34	10.58	18.31	14.80	18.34	0.000111	1.43	554.22	182.17	0.09
US Route 1-DS01	2310	50-Year	960.79	10.58	15.71	14.98	16.04	0.002668	5.33	212.78	94.94	0.41
US Route 1-DS01	2310	100-Year	1150.06	10.58	15.98	15.17	16.35	0.002660	5.50	239.08	97.36	0.42
US Route 1-DS01	2310	500-Year	1697.38	10.58	16.73	15.66	17.20	0.002495	5.81	316.23	108.96	0.41
US Route 1-DS01	2299.21 Stone Footbridge		Bridge									
US Route 1-DS01	2285	2-Year	268.06	9.58	13.11	13.11	13.86	0.010916	7.51	42.34	67.46	0.70
US Route 1-DS01	2285	10-Year	566.44	9.58	15.98		16.04	0.000457	2.28	290.21	127.61	0.16
US Route 1-DS01	2285	25-Year	776.34	9.58	18.30		18.33	0.000094	1.27	628.18	218.35	0.08
US Route 1-DS01	2285	50-Year	960.79	9.58	14.89	14.89	15.53	0.007669	8.25	161.28	107.85	0.63
US Route 1-DS01	2285	100-Year	1150.06	9.58	14.96	13.81	15.79	0.009637	9.33	169.04	109.35	0.71
US Route 1-DS01	2285	500-Year	1697.38	9.58	15.47	15.47	16.38	0.008596	9.36	226.99	118.50	0.68
US Route 1-DS01	2225	2-Year	268.06	8.70	12.86		13.15	0.003927	5.02	69.77	52.69	0.45
US Route 1-DS01	2225	10-Year	566.44	8.70	15.98		16.01	0.000161	1.50	417.28	144.59	0.10
US Route 1-DS01	2225	25-Year	776.34	8.70	18.31		18.32	0.000043	0.94	787.02	167.52	0.05
US Route 1-DS01	2225	50-Year	960.79	8.70	14.77		15.05	0.002238	4.93	246.67	136.45	0.36
US Route 1-DS01	2225	100-Year	1150.06	8.70	14.96		15.27	0.002419	5.23	272.19	138.10	0.38
US Route 1-DS01	2225	500-Year	1697.38	8.70	15.41		15.85	0.002808	5.92	336.31	141.07	0.41
US Route 1-DS01	2130	2-Year	268.06	7.60	12.42		12.76	0.003759	5.22	62.56	35.14	0.44
US Route 1-DS01	2130	10-Year	566.44	7.60	15.97		16.00	0.000108	1.31	479.96	173.63	0.08
US Route 1-DS01	2130	25-Year	776.34	7.60	18.31		18.32	0.000027	0.78	935.57	205.88	0.04
US Route 1-DS01	2130	50-Year	960.79	7.60	14.15	14.15	14.69	0.005090	7.56	182.55	147.92	0.54
US Route 1-DS01	2130	100-Year	1150.06	7.60	14.29	14.29	14.89	0.005516	8.00	204.77	150.16	0.56
US Route 1-DS01	2130	500-Year	1697.38	7.60	14.62	14.62	15.40	0.006615	9.06	255.10	155.10	0.62
US Route 1-DS01	2080	2-Year	268.06	6.77	12.52	9.42	12.57	0.000371	2.19	195.66	214.80	0.17
US Route 1-DS01	2080	10-Year	566.44	6.77	15.98	10.79	15.99	0.000009	0.49	1295.44	371.31	0.03
US Route 1-DS01	2080	25-Year	776.34	6.77	18.31	12.55	18.31	0.000004	0.35	2195.00	403.67	0.02
US Route 1-DS01	2080	50-Year	960.79	6.77	13.98	12.66	14.02	0.000276	2.22	592.08	314.85	0.15
US Route 1-DS01	2080	100-Year	1150.06	6.77	14.19	12.77	14.24	0.000288	2.32	661.67	334.12	0.15
US Route 1-DS01	2080	500-Year	1697.38	6.77	14.69	13.08	14.76	0.000320	2.56	832.50	344.83	0.16
US Route 1-DS01	2052.5 Myrtle Ave		Bridge									
US Route 1-DS01	2025	2-Year	268.06	6.57	10.24		10.39	0.001249	3.16	87.05	27.67	0.29
US Route 1-DS01	2025	10-Year	566.44	6.57	15.98		15.98	0.000009	0.51	1246.91	445.18	0.03
US Route 1-DS01	2025	25-Year	776.34	6.57	18.31		18.31	0.000002	0.30	2374.01	484.26	0.02
US Route 1-DS01	2025	50-Year	960.79	6.57	12.51		12.94	0.002117	5.71	203.70	128.60	0.42
US Route 1-DS01	2025	100-Year	1150.06	6.57	12.83		13.24	0.001973	5.71	248.17	143.14	0.41
US Route 1-DS01	2025	500-Year	1697.38	6.57	14.07		14.27	0.000800	4.11	498.39	335.79	0.27
US Route 1-DS01	1975	2-Year	268.06	6.30	10.19		10.33	0.001032	2.95	93.04	27.79	0.27
US Route 1-DS01	1975	10-Year	566.44	6.30	15.98		15.98	0.000006	0.42	1311.03	435.00	0.02
US Route 1-DS01	1975	25-Year	776.34	6.30	18.31		18.31	0.000002	0.26	2410.83	472.52	0.01
US Route 1-DS01	1975	50-Year	960.79	6.30	12.52		12.77	0.001083	4.14	243.51	122.48	0.30
US Route 1-DS01	1975	100-Year	1150.06	6.30	12.83		13.10	0.001070	4.25	287.13	157.52	0.30
US Route 1-DS01	1975	500-Year	1697.38	6.30	14.05		14.23	0.000554	3.44	546.05	352.42	0.22
US Route 1-DS01	1920	2-Year	268.06	5.50	10.24	7.24	10.28	0.000231	1.61	175.61	112.93	0.13
US Route 1-DS01	1920	10-Year	566.44	5.50	15.98	8.33	15.98	0.000001	0.22	2240.90	654.03	0.01
US Route 1-DS01	1920	25-Year	776.34	5.50	18.31	9.60	18.31	0.000001	0.15	3826.61	681.21	0.01
US Route 1-DS01	1920	50-Year	960.79	5.50	12.65	9.98	12.70	0.000130	1.60	576.05	279.48	0.11

Deadman Brook Recommended Model

HEC-RAS Plan: Proposed (Continued)

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
US Route 1-DS01	1920	100-Year	1150.06	5.50	12.97	10.15	13.02	0.000131	1.65	671.42	323.04	0.11
US Route 1-DS01	1920	500-Year	1697.38	5.50	14.14	10.57	14.18	0.000078	1.40	1110.76	569.82	0.08
US Route 1-DS01	1875	2-Year	268.06	4.00	10.24	5.65	10.26	0.000066	1.14	246.79	69.73	0.08
US Route 1-DS01	1875	10-Year	566.44	4.00	15.98	6.65	15.98	0.000002	0.28	2358.16	716.71	0.01
US Route 1-DS01	1875	25-Year	776.34	4.00	18.31	7.21	18.31	0.000001	0.18	4043.79	723.95	0.01
US Route 1-DS01	1875	50-Year	960.79	4.00	12.64	7.76	12.69	0.000153	2.17	642.18	413.79	0.13
US Route 1-DS01	1875	100-Year	1150.06	4.00	12.96	8.13	13.01	0.000146	2.17	753.50	461.66	0.13
US Route 1-DS01	1875	500-Year	1697.38	4.00	14.14	8.98	14.17	0.000085	1.80	1212.45	632.61	0.10
US Route 1-DS01	1732.5 U.S. Route 1	Bridge										
US Route 1-DS01	1590	2-Year	268.06	2.77	9.43		9.43	0.000023	0.47	534.87	253.32	0.03
US Route 1-DS01	1590	10-Year	566.44	2.77	15.98		15.98	0.000001	0.12	2705.71	391.59	0.01
US Route 1-DS01	1590	25-Year	776.34	2.77	18.31		18.31	0.000000	0.11	3655.35	428.77	0.00
US Route 1-DS01	1590	50-Year	960.79	2.77	12.35		12.36	0.000012	0.44	1400.69	326.60	0.03
US Route 1-DS01	1590	100-Year	1150.06	2.77	12.81		12.82	0.000013	0.46	1551.27	331.79	0.03
US Route 1-DS01	1590	500-Year	1697.38	2.77	14.09		14.10	0.000013	0.50	1993.68	359.44	0.03
US Route 1-DS01	1500	2-Year	296.48	3.00	9.41		9.43	0.000051	0.69	355.05	191.26	0.05
US Route 1-DS01	1500	10-Year	608.46	3.00	15.98		15.98	0.000001	0.16	2100.56	321.62	0.01
US Route 1-DS01	1500	25-Year	813.35	3.00	18.31		18.31	0.000001	0.15	2864.46	332.69	0.01
US Route 1-DS01	1500	50-Year	1022.43	3.00	12.34		12.35	0.000023	0.61	1037.84	260.39	0.04
US Route 1-DS01	1500	100-Year	1229.31	3.00	12.79		12.81	0.000023	0.65	1158.12	267.48	0.04
US Route 1-DS01	1500	500-Year	1835.35	3.00	14.07		14.10	0.000023	0.71	1515.14	290.90	0.04
US Route 1-DS01	1360	2-Year	296.48	2.40	9.36		9.41	0.000344	1.98	179.25	56.79	0.14
US Route 1-DS01	1360	10-Year	608.46	2.40	15.97		15.98	0.000007	0.46	1187.46	225.62	0.02
US Route 1-DS01	1360	25-Year	813.35	2.40	18.30		18.31	0.000004	0.39	1727.59	237.32	0.02
US Route 1-DS01	1360	50-Year	1022.43	2.40	12.23		12.34	0.000311	2.44	440.59	147.55	0.14
US Route 1-DS01	1360	100-Year	1229.31	2.40	12.68		12.80	0.000305	2.49	509.15	157.14	0.14
US Route 1-DS01	1360	500-Year	1835.35	2.40	13.97		14.08	0.000245	2.43	747.19	209.57	0.13
US Route 1-DS01	1200	2-Year	296.48	1.60	9.35	3.74	9.37	0.000094	1.19	296.03	102.99	0.08
US Route 1-DS01	1200	10-Year	608.46	1.60	15.97	4.77	15.98	0.000005	0.42	1385.86	229.95	0.02
US Route 1-DS01	1200	25-Year	813.35	1.60	18.30	5.30	18.31	0.000003	0.35	1926.82	232.21	0.02
US Route 1-DS01	1200	50-Year	1022.43	1.60	12.25	5.78	12.29	0.000123	1.71	669.94	153.79	0.09
US Route 1-DS01	1200	100-Year	1229.31	1.60	12.69	6.20	12.75	0.000132	1.82	741.09	163.31	0.10
US Route 1-DS01	1200	500-Year	1835.35	1.60	13.97	7.29	14.04	0.000134	1.98	965.98	188.43	0.10
US Route 1-DS01	1140	2-Year	296.48	-0.57	9.28	3.00	9.35	0.000366	2.20	165.50	85.07	0.13
US Route 1-DS01	1140	10-Year	608.46	-0.57	15.97	4.75	15.98	0.000011	0.54	1075.88	201.47	0.02
US Route 1-DS01	1140	25-Year	813.35	-0.57	18.30	5.67	18.31	0.000006	0.43	1562.69	214.56	0.02
US Route 1-DS01	1140	50-Year	1022.43	-0.57	12.13	6.54	12.25	0.000445	2.92	427.11	137.18	0.15
US Route 1-DS01	1140	100-Year	1229.31	-0.57	12.57	7.17	12.71	0.000435	2.96	488.92	144.96	0.15
US Route 1-DS01	1140	500-Year	1835.35	-0.57	13.83	10.58	14.00	0.000363	2.89	685.28	165.29	0.14
US Route 1-DS01	1110 Jesup Rd	Bridge										
US Route 1-DS01	1080	2-Year	296.48	-0.86	9.12		9.17	0.000286	1.79	178.19	53.32	0.13
US Route 1-DS01	1080	10-Year	608.46	-0.86	15.96		15.97	0.000015	0.68	989.73	198.81	0.03
US Route 1-DS01	1080	25-Year	813.35	-0.86	18.30		18.30	0.000009	0.58	1519.38	260.97	0.03
US Route 1-DS01	1080	50-Year	1022.43	-0.86	10.73		10.99	0.001198	4.31	288.96	88.92	0.28
US Route 1-DS01	1080	100-Year	1229.31	-0.86	11.44		11.68	0.001001	4.18	357.59	101.70	0.26
US Route 1-DS01	1080	500-Year	1835.35	-0.86	13.00		13.23	0.000713	3.96	530.38	119.30	0.22
US Route 1-DS01	1020	2-Year	296.48	1.40	9.13		9.14	0.000065	1.01	324.13	72.26	0.06
US Route 1-DS01	1020	10-Year	608.46	1.40	15.96		15.96	0.000007	0.50	1217.22	211.83	0.02
US Route 1-DS01	1020	25-Year	813.35	1.40	18.30		18.30	0.000004	0.43	1757.34	250.01	0.02
US Route 1-DS01	1020	50-Year	1022.43	1.40	10.79		10.88	0.000312	2.53	437.08	89.28	0.15
US Route 1-DS01	1020	100-Year	1229.31	1.40	11.48		11.58	0.000316	2.67	490.20	96.29	0.15
US Route 1-DS01	1020	500-Year	1835.35	1.40	13.03		13.15	0.000335	3.03	688.06	147.80	0.16
US Route 1-DS01	800	2-Year	296.48	1.40	9.13		9.14	0.000006	0.31	1059.30	155.25	0.02
US Route 1-DS01	800	10-Year	608.46	1.40	15.96		15.96	0.000003	0.32	2255.50	246.85	0.01
US Route 1-DS01	800	25-Year	813.35	1.40	18.30		18.30	0.000002	0.33	2896.13	293.99	0.01
US Route 1-DS01	800	50-Year	1022.43	1.40	10.82		10.84	0.000035	0.85	1324.38	158.78	0.05
US Route 1-DS01	800	100-Year	1229.31	1.40	11.52		11.54	0.000039	0.95	1435.97	160.83	0.05
US Route 1-DS01	800	500-Year	1835.35	1.40	13.08		13.10	0.000054	1.22	1689.51	165.74	0.06
US Route 1-DS01	600	2-Year	296.48	1.20	9.13		9.14	0.000002	0.20	1612.41	229.93	0.01
US Route 1-DS01	600	10-Year	608.46	1.20	15.96		15.96	0.000001	0.21	3418.00	359.44	0.01
US Route 1-DS01	600	25-Year	813.35	1.20	18.30		18.30	0.000001	0.21	4358.49	403.18	0.01
US Route 1-DS01	600	50-Year	1022.43	1.20	10.82		10.83	0.000014	0.56	2007.60	238.14	0.03
US Route 1-DS01	600	100-Year	1229.31	1.20	11.52		11.53	0.000016	0.62	2175.34	241.85	0.03
US Route 1-DS01	600	500-Year	1835.35	1.20	13.08		13.09	0.000022	0.80	2559.70	254.51	0.04
US Route 1-DS01	420	2-Year	296.48	0.00	9.13	0.62	9.13	0.000004	0.28	1117.31	137.63	0.02
US Route 1-DS01	420	10-Year	608.46	0.00	15.96	1.00	15.96	0.000002	0.32	2141.21	161.22	0.01
US Route 1-DS01	420	25-Year	813.35	0.00	18.30	1.21	18.30	0.000003	0.37	2524.87	164.27	0.02
US Route 1-DS01	420	50-Year	1022.43	0.00	10.82	1.40	10.83	0.000026	0.81	1340.08	142.40	0.04
US Route 1-DS01	420	100-Year	1229.31	0.00	11.51	1.59	11.52	0.000030	0.91	1433.20	144.45	0.05
US Route 1-DS01	420	500-Year	1835.35	0.00	13.06	2.07	13.08	0.000044	1.20	1642.48	149.66	0.06

Deadman Brook Recommended Model

HEC-RAS Plan: Proposed (Continued)

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
US Route 1-DS01	370	2-Year	296.48	-2.64	9.13	-0.53	9.13	0.000027	0.74	666.34	91.39	0.04
US Route 1-DS01	370	10-Year	608.46	-2.64	15.96	1.07	15.96	0.000016	0.78	1385.07	117.77	0.03
US Route 1-DS01	370	25-Year	813.35	-2.64	18.29	1.83	18.30	0.000017	0.87	1660.67	118.00	0.03
US Route 1-DS01	370	50-Year	1022.43	-2.64	10.77	2.42	10.81	0.000181	2.09	822.81	98.95	0.10
US Route 1-DS01	370	100-Year	1229.31	-2.64	11.46	2.76	11.51	0.000209	2.33	890.21	101.35	0.11
US Route 1-DS01	370	500-Year	1835.35	-2.64	12.99	3.60	13.06	0.000291	2.94	1041.06	106.47	0.13
US Route 1-DS01	345 Footbridge	Bridge										
US Route 1-DS01	320	2-Year	296.48	-3.09	9.12	-0.97	9.13	0.000032	0.80	549.91	77.74	0.04
US Route 1-DS01	320	10-Year	608.46	-3.09	15.95	0.40	15.95	0.000022	0.91	1236.30	128.74	0.04
US Route 1-DS01	320	25-Year	813.35	-3.09	18.28	1.35	18.29	0.000023	0.99	1597.26	155.00	0.04
US Route 1-DS01	320	50-Year	1022.43	-3.09	10.73	2.18	10.78	0.000222	2.30	654.17	84.98	0.11
US Route 1-DS01	320	100-Year	1229.31	-3.09	11.39	2.65	11.46	0.000263	2.59	697.33	87.98	0.12
US Route 1-DS01	320	500-Year	1835.35	-3.09	12.81	3.75	12.93	0.000398	3.39	789.70	94.39	0.15
US Route 1-DS01	220	2-Year	296.48	-2.72	9.12		9.13	0.000010	0.45	700.06	87.16	0.03
US Route 1-DS01	220	10-Year	608.46	-2.72	15.95		15.95	0.000006	0.51	1419.06	120.23	0.02
US Route 1-DS01	220	25-Year	813.35	-2.72	18.28		18.29	0.000006	0.59	1708.71	126.80	0.02
US Route 1-DS01	220	50-Year	1022.43	-2.72	10.73		10.75	0.000066	1.32	846.31	95.54	0.07
US Route 1-DS01	220	100-Year	1229.31	-2.72	11.39		11.43	0.000078	1.49	910.41	97.33	0.08
US Route 1-DS01	220	500-Year	1835.35	-2.72	12.82		12.88	0.000116	1.97	1058.79	109.71	0.10
US Route 1-DS01	0	2-Year	296.48	2.00	9.12	2.95	9.13	0.000027	0.62	520.30	88.75	0.04
US Route 1-DS01	0	10-Year	608.46	2.00	15.94	3.50	15.95	0.000010	0.60	1271.00	128.24	0.03
US Route 1-DS01	0	25-Year	813.35	2.00	18.28	3.81	18.29	0.000010	0.66	1578.89	135.67	0.03
US Route 1-DS01	0	50-Year	1022.43	2.00	10.70	4.10	10.74	0.000158	1.72	666.09	95.85	0.10
US Route 1-DS01	0	100-Year	1229.31	2.00	11.36	4.35	11.41	0.000177	1.91	730.82	101.49	0.11
US Route 1-DS01	0	500-Year	1835.35	2.00	12.77	5.04	12.86	0.000238	2.44	884.14	114.12	0.13

Deadman Brook Tributaries Recommended Model

HEC-RAS Plan: Proposed

River	Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
Tributary 8	Sturges Hwy	430	2-Year	16.21	227.60	228.57		228.65	0.007329	2.29	7.08	9.26	0.46
Tributary 8	Sturges Hwy	430	10-Year	41.31	227.60	228.67	228.66	229.08	0.032658	5.11	8.08	9.69	0.99
Tributary 8	Sturges Hwy	430	25-Year	58.97	227.60	228.90	228.90	229.40	0.032164	5.64	10.45	10.62	1.00
Tributary 8	Sturges Hwy	430	50-Year	73.24	227.60	229.06	229.06	229.63	0.031326	6.02	12.18	11.27	1.01
Tributary 8	Sturges Hwy	430	100-Year	87.62	227.60	229.21	229.21	229.84	0.029801	6.36	13.85	11.87	1.00
Tributary 8	Sturges Hwy	430	500-Year	127.40	227.60	229.57	229.57	230.36	0.026470	7.12	18.49	13.41	0.99
Tributary 8	Sturges Hwy	380	2-Year	16.21	224.40	228.60	224.97	228.60	0.000033	0.38	66.08	88.38	0.03
Tributary 8	Sturges Hwy	380	10-Year	41.31	224.40	228.86	225.48	228.86	0.000068	0.57	171.95	92.10	0.05
Tributary 8	Sturges Hwy	380	25-Year	58.97	224.40	228.96	225.76	228.97	0.000121	0.77	181.50	93.57	0.06
Tributary 8	Sturges Hwy	380	50-Year	73.24	224.40	229.02	225.96	229.03	0.000174	0.93	186.97	94.75	0.08
Tributary 8	Sturges Hwy	380	100-Year	87.62	224.40	229.08	226.29	229.09	0.000231	1.08	193.10	96.78	0.09
Tributary 8	Sturges Hwy	380	500-Year	127.40	224.40	229.21	226.90	229.23	0.000429	1.50	206.00	103.65	0.12
Tributary 8	Sturges Hwy	343.95	Sturges Hwy										
Tributary 8	Sturges Hwy	310	2-Year	16.21	224.65	225.81	225.24	225.88	0.003679	2.13	8.38	16.95	0.35
Tributary 8	Sturges Hwy	310	10-Year	41.31	224.65	226.06	225.75	226.22	0.008534	3.58	16.46	20.05	0.53
Tributary 8	Sturges Hwy	310	25-Year	58.97	224.65	226.29	225.94	226.50	0.009173	4.12	21.49	22.69	0.57
Tributary 8	Sturges Hwy	310	50-Year	73.24	224.65	226.43	226.11	226.68	0.010150	4.57	24.68	24.21	0.60
Tributary 8	Sturges Hwy	310	100-Year	87.62	224.65	226.56	226.25	226.84	0.010691	4.92	28.02	25.71	0.63
Tributary 8	Sturges Hwy	310	500-Year	127.40	224.65	226.90	226.57	227.25	0.011227	5.62	37.42	29.52	0.66
Tributary 8	Sturges Hwy	260	2-Year	16.21	224.00	225.82	224.53	225.82	0.000160	0.53	35.46	38.21	0.08
Tributary 8	Sturges Hwy	260	10-Year	41.31	224.00	226.05	224.86	226.07	0.000587	1.13	45.86	42.93	0.15
Tributary 8	Sturges Hwy	260	25-Year	58.97	224.00	226.29	225.02	226.32	0.000715	1.36	56.42	45.69	0.17
Tributary 8	Sturges Hwy	260	50-Year	73.24	224.00	226.43	225.13	226.46	0.000843	1.54	62.81	47.29	0.19
Tributary 8	Sturges Hwy	260	100-Year	87.62	224.00	226.57	225.24	226.61	0.000939	1.70	69.37	48.87	0.20
Tributary 8	Sturges Hwy	260	500-Year	127.40	224.00	226.91	225.49	226.97	0.001117	2.04	87.00	52.89	0.23
Tributary 8	Sturges Hwy	185	2-Year	16.21	223.80	225.81		225.81	0.000103	0.44	74.36	84.43	0.06
Tributary 8	Sturges Hwy	185	10-Year	41.31	223.80	226.03		226.03	0.000366	0.91	92.99	86.47	0.12
Tributary 8	Sturges Hwy	185	25-Year	58.97	223.80	226.26		226.27	0.000424	1.06	113.53	87.90	0.13
Tributary 8	Sturges Hwy	185	50-Year	73.24	223.80	226.40		226.41	0.000492	1.19	125.37	88.72	0.14
Tributary 8	Sturges Hwy	185	100-Year	87.62	223.80	226.53		226.55	0.000540	1.30	137.34	89.54	0.15
Tributary 8	Sturges Hwy	185	500-Year	127.40	223.80	226.88		226.90	0.000627	1.54	168.57	91.64	0.17
Tributary 8	Sturges Hwy	135	2-Year	16.21	223.00	225.81	223.87	225.81	0.000022	0.23	179.88	139.14	0.02
Tributary 8	Sturges Hwy	135	10-Year	41.31	223.00	226.02	224.63	226.02	0.000088	0.48	209.94	141.28	0.05
Tributary 8	Sturges Hwy	135	25-Year	58.97	223.00	226.26	224.74	226.26	0.000113	0.57	243.32	143.13	0.06
Tributary 8	Sturges Hwy	135	50-Year	73.24	223.00	226.39	224.83	226.39	0.000138	0.65	262.43	144.18	0.06
Tributary 8	Sturges Hwy	135	100-Year	87.62	223.00	226.52	224.87	226.53	0.000158	0.71	281.76	145.24	0.07
Tributary 8	Sturges Hwy	135	500-Year	127.40	223.00	226.87	224.97	226.87	0.000200	0.85	332.16	147.96	0.08
Tributary 8	Sturges Hwy	125.12	Footbridge										
Tributary 8	Sturges Hwy	115	2-Year	16.21	223.00	225.81		225.81	0.000010	0.16	250.02	181.65	0.02
Tributary 8	Sturges Hwy	115	10-Year	41.31	223.00	226.02		226.02	0.000043	0.34	289.04	184.06	0.03
Tributary 8	Sturges Hwy	115	25-Year	58.97	223.00	226.26		226.26	0.000056	0.40	332.37	185.79	0.04
Tributary 8	Sturges Hwy	115	50-Year	73.24	223.00	226.39		226.39	0.000069	0.46	357.08	186.77	0.04
Tributary 8	Sturges Hwy	115	100-Year	87.62	223.00	226.52		226.52	0.000080	0.50	382.05	187.76	0.05
Tributary 8	Sturges Hwy	115	500-Year	127.40	223.00	226.86		226.87	0.000102	0.61	446.92	190.30	0.05
Tributary 8	Sturges Hwy	60	2-Year	16.21	223.40	225.81		225.81	0.000002	0.07	360.81	268.07	0.01
Tributary 8	Sturges Hwy	60	10-Year	41.31	223.40	226.02		226.02	0.000007	0.16	418.00	269.56	0.02
Tributary 8	Sturges Hwy	60	25-Year	58.97	223.40	226.25		226.26	0.000010	0.20	481.30	271.44	0.02
Tributary 8	Sturges Hwy	60	50-Year	73.24	223.40	226.39		226.39	0.000012	0.23	517.32	272.50	0.02
Tributary 8	Sturges Hwy	60	100-Year	87.62	223.40	226.52		226.52	0.000015	0.25	553.66	273.56	0.03
Tributary 8	Sturges Hwy	60	500-Year	127.40	223.40	226.86		226.86	0.000019	0.31	647.88	276.30	0.03
Tributary 7	Merritt Pkwy	925	2-Year	9.54	204.00	204.66		204.69	0.004428	1.34	7.14	14.90	0.34
Tributary 7	Merritt Pkwy	925	10-Year	28.31	204.00	205.43		205.45	0.001436	1.32	23.75	32.13	0.22
Tributary 7	Merritt Pkwy	925	25-Year	42.15	204.00	206.19		206.20	0.000452	1.05	56.97	55.36	0.14
Tributary 7	Merritt Pkwy	925	50-Year	53.50	204.00	206.87		206.88	0.000205	0.88	102.39	76.45	0.10
Tributary 7	Merritt Pkwy	925	100-Year	65.06	204.00	207.96		207.97	0.000066	0.63	197.68	97.23	0.06
Tributary 7	Merritt Pkwy	925	500-Year	97.85	204.00	210.87		210.87	0.000002	0.16	1232.73	519.44	0.01
Tributary 7	Merritt Pkwy	875	2-Year	9.54	203.60	204.02	204.00	204.17	0.038543	3.08	3.10	9.38	0.94
Tributary 7	Merritt Pkwy	875	10-Year	28.31	203.60	205.37		205.39	0.000826	1.25	34.26	53.38	0.18
Tributary 7	Merritt Pkwy	875	25-Year	42.15	203.60	206.17		206.18	0.000246	0.90	95.31	82.53	0.10
Tributary 7	Merritt Pkwy	875	50-Year	53.50	203.60	206.87		206.87	0.000123	0.76	160.60	110.85	0.08
Tributary 7	Merritt Pkwy	875	100-Year	65.06	203.60	207.96		207.96	0.000041	0.54	293.62	133.88	0.05
Tributary 7	Merritt Pkwy	875	500-Year	97.85	203.60	210.87		210.87	0.000002	0.17	1222.06	450.14	0.01
Tributary 7	Merritt Pkwy	675	2-Year	9.54	202.60	204.11		204.11	0.000010	0.12	78.04	62.34	0.02
Tributary 7	Merritt Pkwy	675	10-Year	28.31	202.60	205.38		205.38	0.000008	0.18	175.30	238.39	0.02
Tributary 7	Merritt Pkwy	675	25-Year	42.15	202.60	206.17		206.17	0.000007	0.20	270.79	330.08	0.02
Tributary 7	Merritt Pkwy	675	50-Year	53.50	202.60	206.87		206.87	0.000005	0.18	417.44	360.27	0.02
Tributary 7	Merritt Pkwy	675	100-Year	65.06	202.60	207.96		207.96	0.000002	0.13	822.78	397.99	0.01
Tributary 7	Merritt Pkwy	675	500-Year	97.85	202.60	210.87		210.87	0.000000	0.08	2028.74	431.02	0.00
Tributary 7	Merritt Pkwy	600	2-Year	9.54	202.60	204.11		204.11	0.000016	0.15	71.99	96.65	0.02
Tributary 7	Merritt Pkwy	600	10-Year	28.31	202.60	205.38		205.38	0.000008	0.17	280.29	332.30	0.02
Tributary 7	Merritt Pkwy	600	25-Year	42.15	202.60	206.17		206.17	0.000005	0.17	498.15	428.69	0.02
Tributary 7	Merritt Pkwy	600	50-Year	53.50	202.60	206.87		206.87	0.000003	0.15	799.44	440.25	0.01
Tributary 7	Merritt Pkwy	600	100-Year	65.06	202.60	207.96		207.96	0.000001	0.12	1295.33	463.02	0.01
Tributary 7	Merritt Pkwy	600	500-Year	97.85	202.60	210.87		210.87	0.000000	0.08	2704.74	506.96	0.01

Deadman Brook Tributaries Recommended Model

HEC-RAS Plan: Proposed (Continued)

River	Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
Tributary 7	Merritt Pkwy	550	2-Year	9.54	202.60	204.11	202.85	204.11	0.000017	0.14	75.72	96.71	0.02
Tributary 7	Merritt Pkwy	550	10-Year	28.31	202.60	205.38	203.06	205.38	0.000008	0.17	235.93	259.08	0.02
Tributary 7	Merritt Pkwy	550	25-Year	42.15	202.60	206.17	203.16	206.17	0.000006	0.17	371.27	337.50	0.02
Tributary 7	Merritt Pkwy	550	50-Year	53.50	202.60	206.87	203.26	206.87	0.000004	0.16	629.06	398.35	0.01
Tributary 7	Merritt Pkwy	550	100-Year	65.06	202.60	207.96	203.31	207.96	0.000002	0.13	1088.83	438.71	0.01
Tributary 7	Merritt Pkwy	550	500-Year	97.85	202.60	210.87	203.42	210.87	0.000000	0.09	2716.21	701.70	0.01
Tributary 7	Merritt Pkwy	459.28	Merritt Pkwy	Culvert									
Tributary 7	Merritt Pkwy	365	2-Year	9.54	200.40	201.00	200.76	201.03	0.006003	1.41	6.76	31.43	0.39
Tributary 7	Merritt Pkwy	365	10-Year	28.31	200.40	201.41	201.05	201.46	0.006178	1.84	15.69	56.43	0.42
Tributary 7	Merritt Pkwy	365	25-Year	42.15	200.40	201.54	201.19	201.61	0.006986	2.23	19.45	62.71	0.46
Tributary 7	Merritt Pkwy	365	50-Year	53.50	200.40	201.37	201.30	201.58	0.026286	3.71	14.67	54.19	0.86
Tributary 7	Merritt Pkwy	365	100-Year	65.06	200.40	201.71		201.83	0.008129	2.77	24.77	71.91	0.51
Tributary 7	Merritt Pkwy	365	500-Year	97.85	200.40	202.86		202.88	0.000628	1.33	131.09	110.37	0.16
Tributary 7	Merritt Pkwy	315	2-Year	9.54	200.00	200.50		200.54	0.016335	1.50	6.34	29.72	0.57
Tributary 7	Merritt Pkwy	315	10-Year	28.31	200.00	200.62	200.61	200.73	0.048047	2.77	10.22	43.07	1.00
Tributary 7	Merritt Pkwy	315	25-Year	42.15	200.00	200.69	200.69	200.84	0.047899	3.02	13.97	51.70	1.02
Tributary 7	Merritt Pkwy	315	50-Year	53.50	200.00	201.13		201.15	0.002808	1.30	42.37	72.92	0.29
Tributary 7	Merritt Pkwy	315	100-Year	65.06	200.00	201.70		201.71	0.000453	0.80	97.57	120.95	0.13
Tributary 7	Merritt Pkwy	315	500-Year	97.85	200.00	202.86		202.87	0.000083	0.54	265.08	162.68	0.06
Tributary 7	Merritt Pkwy	95	2-Year	9.54	199.00	199.54		199.55	0.002085	0.78	12.16	32.40	0.23
Tributary 7	Merritt Pkwy	95	10-Year	28.31	199.00	200.05		200.06	0.000970	0.67	43.55	108.49	0.16
Tributary 7	Merritt Pkwy	95	25-Year	42.15	199.00	200.50		200.51	0.000234	0.50	105.40	168.35	0.09
Tributary 7	Merritt Pkwy	95	50-Year	53.50	199.00	201.10		201.11	0.000061	0.35	217.27	197.19	0.05
Tributary 7	Merritt Pkwy	95	100-Year	65.06	199.00	201.69		201.69	0.000027	0.29	338.09	213.00	0.03
Tributary 7	Merritt Pkwy	95	500-Year	97.85	199.00	202.86		202.86	0.000012	0.26	607.20	250.84	0.03
Tributary 6	Bayberry Ln	360	2-Year	14.14	200.40	201.68		201.68	0.000218	0.46	39.75	68.36	0.08
Tributary 6	Bayberry Ln	360	10-Year	30.20	200.40	202.01		202.02	0.000302	0.67	67.93	98.27	0.11
Tributary 6	Bayberry Ln	360	25-Year	40.87	200.40	202.24		202.25	0.000282	0.72	92.58	118.26	0.10
Tributary 6	Bayberry Ln	360	50-Year	49.26	200.40	202.08		202.09	0.000665	1.02	74.12	104.27	0.16
Tributary 6	Bayberry Ln	360	100-Year	57.62	200.40	202.12		202.14	0.000795	1.15	78.86	108.63	0.17
Tributary 6	Bayberry Ln	360	500-Year	79.44	200.40	202.23		202.25	0.001109	1.42	90.93	117.64	0.21
Tributary 6	Bayberry Ln	310	2-Year	14.14	200.20	201.60		200.87	0.003008	1.85	13.33	32.30	0.28
Tributary 6	Bayberry Ln	310	10-Year	30.20	200.20	201.98	201.39	201.99	0.001205	1.37	39.05	91.21	0.18
Tributary 6	Bayberry Ln	310	25-Year	40.87	200.20	202.22	201.60	202.23	0.000426	0.89	63.37	105.95	0.11
Tributary 6	Bayberry Ln	310	50-Year	49.26	200.20	201.98	201.64	202.02	0.003080	2.20	39.56	91.63	0.29
Tributary 6	Bayberry Ln	310	100-Year	57.62	200.20	202.02	201.88	202.06	0.003248	2.29	42.82	94.08	0.30
Tributary 6	Bayberry Ln	310	500-Year	79.44	200.20	202.11	201.94	202.16	0.003190	2.34	51.84	99.74	0.30
Tributary 6	Bayberry Ln	300.18	Footbridge	Bridge									
Tributary 6	Bayberry Ln	290	2-Year	14.14	200.20	201.13	200.87	201.28	0.016126	3.25	5.47	30.86	0.60
Tributary 6	Bayberry Ln	290	10-Year	30.20	200.20	201.36	201.35	201.45	0.009869	2.96	15.57	58.23	0.48
Tributary 6	Bayberry Ln	290	25-Year	40.87	200.20	201.44	201.39	201.52	0.008164	2.81	21.06	79.69	0.44
Tributary 6	Bayberry Ln	290	50-Year	49.26	200.20	201.50	201.42	201.57	0.006959	2.67	25.58	81.10	0.41
Tributary 6	Bayberry Ln	290	100-Year	57.62	200.20	201.55	201.46	201.63	0.005919	2.54	30.18	82.50	0.38
Tributary 6	Bayberry Ln	290	500-Year	79.44	200.20	201.71	201.52	201.78	0.003849	2.20	43.14	85.97	0.32
Tributary 6	Bayberry Ln	240	2-Year	14.14	199.60	200.12	200.08	200.27	0.027899	3.04	4.79	13.75	0.84
Tributary 6	Bayberry Ln	240	10-Year	30.20	199.60	200.33	200.33	200.60	0.031951	4.24	7.97	17.77	0.96
Tributary 6	Bayberry Ln	240	25-Year	40.87	199.60	200.46	200.46	200.77	0.029305	4.63	10.48	20.38	0.95
Tributary 6	Bayberry Ln	240	50-Year	49.26	199.60	200.55	200.55	200.90	0.027769	4.87	12.47	22.23	0.94
Tributary 6	Bayberry Ln	240	100-Year	57.62	199.60	200.64	200.64	201.01	0.026347	5.07	14.51	23.98	0.93
Tributary 6	Bayberry Ln	240	500-Year	79.44	199.60	200.80	200.80	201.27	0.027165	5.75	18.76	27.36	0.97
Tributary 6	Bayberry Ln	105	2-Year	14.14	197.20	197.94		198.02	0.010850	2.24	6.32	11.89	0.54
Tributary 6	Bayberry Ln	105	10-Year	30.20	197.20	198.71		198.75	0.002760	1.54	19.65	23.19	0.29
Tributary 6	Bayberry Ln	105	25-Year	40.87	197.20	199.16		199.19	0.001350	1.30	31.61	29.89	0.22
Tributary 6	Bayberry Ln	105	50-Year	49.26	197.20	199.27		199.30	0.001448	1.42	35.00	53.52	0.23
Tributary 6	Bayberry Ln	105	100-Year	57.62	197.20	199.41		199.44	0.001418	1.50	39.52	84.30	0.23
Tributary 6	Bayberry Ln	105	500-Year	79.44	197.20	199.77		199.80	0.001116	1.55	68.14	148.03	0.21
Tributary 5	Silent Grove N	1075	2-Year	2.54	194.40	195.28		195.28	0.000001	0.02	102.32	126.35	0.00
Tributary 5	Silent Grove N	1075	10-Year	18.69	194.40	196.52		196.52	0.000002	0.07	315.98	194.57	0.01
Tributary 5	Silent Grove N	1075	25-Year	31.57	194.40	197.79		197.79	0.000001	0.07	587.67	245.87	0.01
Tributary 5	Silent Grove N	1075	50-Year	41.34	194.40	197.97		197.97	0.000001	0.08	633.96	252.86	0.01
Tributary 5	Silent Grove N	1075	100-Year	50.62	194.40	198.10		198.10	0.000002	0.10	667.31	257.98	0.01
Tributary 5	Silent Grove N	1075	500-Year	74.64	194.40	198.37		198.37	0.000003	0.13	740.64	285.30	0.01
Tributary 5	Silent Grove N	870	2-Year	2.54	194.20	195.28		195.28	0.000001	0.03	75.71	88.72	0.01
Tributary 5	Silent Grove N	870	10-Year	18.69	194.20	196.52		196.52	0.000003	0.10	268.33	199.95	0.01
Tributary 5	Silent Grove N	870	25-Year	31.57	194.20	197.79		197.79	0.000001	0.09	547.83	243.44	0.01
Tributary 5	Silent Grove N	870	50-Year	41.34	194.20	197.97		197.97	0.000002	0.11	593.71	251.29	0.01
Tributary 5	Silent Grove N	870	100-Year	50.62	194.20	198.10		198.10	0.000003	0.13	627.39	261.42	0.01
Tributary 5	Silent Grove N	870	500-Year	74.64	194.20	198.37		198.37	0.000004	0.18	698.08	269.69	0.02
Tributary 5	Silent Grove N	665	2-Year	2.54	194.20	195.28		195.28	0.000001	0.03	76.12	80.47	0.01
Tributary 5	Silent Grove N	665	10-Year	18.69	194.20	196.52		196.52	0.000004	0.11	206.13	141.83	0.01
Tributary 5	Silent Grove N	665	25-Year	31.57	194.20	197.79		197.79	0.000002	0.10	477.08	236.26	0.01
Tributary 5	Silent Grove N	665	50-Year	41.34	194.20	197.97		197.97	0.000002	0.12	521.27	240.56	0.01
Tributary 5	Silent Grove N	665	100-Year	50.62	194.20	198.10		198.10	0.000003	0.14	552.87	244.56	0.01
Tributary 5	Silent Grove N	665	500-Year	74.64	194.20	198.37		198.37	0.000005	0.19	619.01	253.22	0.02

Deadman Brook Tributaries Recommended Model

HEC-RAS Plan: Proposed (Continued)

River	Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
Tributary 5	Silent Grove N	450	2-Year	2.54	194.20	195.28		195.28	0.000001	0.04	66.30	70.88	0.01
Tributary 5	Silent Grove N	450	10-Year	18.69	194.20	196.52		196.52	0.000005	0.12	168.47	99.76	0.01
Tributary 5	Silent Grove N	450	25-Year	31.57	194.20	197.79		197.79	0.000002	0.12	398.90	246.08	0.01
Tributary 5	Silent Grove N	450	50-Year	41.34	194.20	197.97		197.97	0.000003	0.15	446.02	263.03	0.01
Tributary 5	Silent Grove N	450	100-Year	50.62	194.20	198.10		198.10	0.000004	0.17	480.69	268.53	0.02
Tributary 5	Silent Grove N	450	500-Year	74.64	194.20	198.37		198.37	0.000007	0.22	552.89	276.04	0.02
Tributary 5	Silent Grove N	250	2-Year	2.54	193.80	195.28		195.28	0.000001	0.03	90.64	81.96	0.00
Tributary 5	Silent Grove N	250	10-Year	18.69	193.80	196.52		196.52	0.000002	0.10	213.84	172.75	0.01
Tributary 5	Silent Grove N	250	25-Year	31.57	193.80	197.79		197.79	0.000001	0.09	404.59	272.74	0.01
Tributary 5	Silent Grove N	250	50-Year	41.34	193.80	197.97		197.97	0.000002	0.11	439.42	291.85	0.01
Tributary 5	Silent Grove N	250	100-Year	50.62	193.80	198.10		198.10	0.000003	0.15	488.80	436.24	0.01
Tributary 5	Silent Grove N	250	500-Year	74.64	193.80	198.37		198.37	0.000004	0.18	607.24	457.81	0.02
Tributary 5	Silent Grove N	50	2-Year	2.54	193.20	195.28		195.28	0.000000	0.03	114.66	111.16	0.00
Tributary 5	Silent Grove N	50	10-Year	18.69	193.20	196.52		196.52	0.000002	0.11	301.30	192.28	0.01
Tributary 5	Silent Grove N	50	25-Year	31.57	193.20	197.79		197.79	0.000001	0.10	566.34	296.65	0.01
Tributary 5	Silent Grove N	50	50-Year	41.34	193.20	197.97		197.97	0.000002	0.12	608.75	309.45	0.01
Tributary 5	Silent Grove N	50	100-Year	50.62	193.20	198.10		198.10	0.000003	0.15	668.03	523.28	0.01
Tributary 5	Silent Grove N	50	500-Year	74.64	193.20	198.37		198.37	0.000004	0.19	807.91	533.45	0.01
Tributary 4	Lehn Farm Rd	895	2-Year	30.77	138.00	139.19		139.19	0.000630	0.74	41.75	51.24	0.14
Tributary 4	Lehn Farm Rd	895	10-Year	70.78	138.00	139.50		139.52	0.001156	1.24	58.36	54.69	0.20
Tributary 4	Lehn Farm Rd	895	25-Year	98.04	138.00	139.89		139.91	0.000828	1.27	80.58	58.99	0.18
Tributary 4	Lehn Farm Rd	895	50-Year	119.87	138.00	140.21		140.23	0.000656	1.28	99.59	61.02	0.17
Tributary 4	Lehn Farm Rd	895	100-Year	141.73	138.00	140.46		140.49	0.000589	1.32	115.35	62.05	0.16
Tributary 4	Lehn Farm Rd	895	500-Year	199.96	138.00	141.10		141.13	0.000473	1.41	155.97	64.81	0.15
Tributary 4	Lehn Farm Rd	745	2-Year	30.77	137.60	139.17		139.17	0.000063	0.33	95.52	73.05	0.05
Tributary 4	Lehn Farm Rd	745	10-Year	70.78	137.60	139.46		139.46	0.000179	0.63	116.66	74.16	0.09
Tributary 4	Lehn Farm Rd	745	25-Year	98.04	137.60	139.85		139.86	0.000170	0.71	146.48	75.69	0.09
Tributary 4	Lehn Farm Rd	745	50-Year	119.87	137.60	140.17		140.18	0.000157	0.75	171.01	77.55	0.08
Tributary 4	Lehn Farm Rd	745	100-Year	141.73	137.60	140.43		140.44	0.000156	0.80	191.26	79.46	0.09
Tributary 4	Lehn Farm Rd	745	500-Year	199.96	137.60	141.08		141.09	0.000149	0.90	244.13	84.04	0.09
Tributary 4	Lehn Farm Rd	545	2-Year	30.77	137.60	139.16		139.16	0.000065	0.29	108.65	102.32	0.05
Tributary 4	Lehn Farm Rd	545	10-Year	70.78	137.60	139.42		139.43	0.000171	0.55	136.29	105.77	0.08
Tributary 4	Lehn Farm Rd	545	25-Year	98.04	137.60	139.82		139.83	0.000141	0.59	179.95	111.00	0.08
Tributary 4	Lehn Farm Rd	545	50-Year	119.87	137.60	140.15		140.15	0.000121	0.61	216.72	115.83	0.07
Tributary 4	Lehn Farm Rd	545	100-Year	141.73	137.60	140.41		140.41	0.000114	0.64	247.33	120.27	0.07
Tributary 4	Lehn Farm Rd	545	500-Year	199.96	137.60	141.06		141.06	0.000100	0.70	329.29	132.85	0.07
Tributary 4	Lehn Farm Rd	345	2-Year	30.77	137.40	139.15		139.15	0.000013	0.15	223.33	173.10	0.02
Tributary 4	Lehn Farm Rd	345	10-Year	70.78	137.40	139.41		139.41	0.000040	0.30	268.31	175.82	0.04
Tributary 4	Lehn Farm Rd	345	25-Year	98.04	137.40	139.81		139.82	0.000037	0.33	340.34	180.10	0.04
Tributary 4	Lehn Farm Rd	345	50-Year	119.87	137.40	140.14		140.14	0.000034	0.35	400.44	192.17	0.04
Tributary 4	Lehn Farm Rd	345	100-Year	141.73	137.40	140.40		140.40	0.000033	0.37	452.10	205.71	0.04
Tributary 4	Lehn Farm Rd	345	500-Year	199.96	137.40	141.05		141.05	0.000031	0.41	597.34	239.22	0.04
Tributary 4	Lehn Farm Rd	295	2-Year	30.77	136.30	139.11	137.66	139.14	0.001697	1.78	68.86	268.84	0.19
Tributary 4	Lehn Farm Rd	295	10-Year	70.78	136.30	139.38	138.60	139.40	0.001763	1.93	141.41	273.76	0.19
Tributary 4	Lehn Farm Rd	295	25-Year	98.04	136.30	139.80	139.21	139.81	0.000604	1.23	258.98	281.54	0.12
Tributary 4	Lehn Farm Rd	295	50-Year	119.87	136.30	140.13	139.25	140.14	0.000357	1.00	352.93	289.86	0.09
Tributary 4	Lehn Farm Rd	295	100-Year	141.73	136.30	140.39	139.29	140.40	0.000276	0.92	429.80	299.08	0.08
Tributary 4	Lehn Farm Rd	295	500-Year	199.96	136.30	141.05	139.37	141.05	0.000163	0.78	633.39	324.25	0.06
Tributary 4	Lehn Farm Rd	275.37 Lehn Farms Ln	Culvert										
Tributary 4	Lehn Farm Rd	260	2-Year	30.77	136.20	138.54	137.17	138.54	0.000103	0.48	172.87	227.11	0.06
Tributary 4	Lehn Farm Rd	260	10-Year	70.78	136.20	139.37	137.55	139.37	0.000067	0.49	376.39	261.38	0.05
Tributary 4	Lehn Farm Rd	260	25-Year	98.04	136.20	139.80	137.92	139.80	0.000059	0.51	491.63	270.95	0.05
Tributary 4	Lehn Farm Rd	260	50-Year	119.87	136.20	140.13	138.00	140.13	0.000054	0.52	584.92	295.18	0.05
Tributary 4	Lehn Farm Rd	260	100-Year	141.73	136.20	140.40	138.10	140.40	0.000051	0.53	664.65	311.70	0.05
Tributary 4	Lehn Farm Rd	260	500-Year	199.96	136.20	141.05	138.24	141.05	0.000042	0.53	880.01	350.09	0.05
Tributary 4	Lehn Farm Rd	160	2-Year	30.77	137.00	138.52		138.52	0.000341	0.61	52.64	233.58	0.11
Tributary 4	Lehn Farm Rd	160	10-Year	70.78	137.00	139.35		139.36	0.000157	0.62	227.38	411.02	0.08
Tributary 4	Lehn Farm Rd	160	25-Year	98.04	137.00	139.79		139.79	0.000088	0.53	408.81	417.10	0.06
Tributary 4	Lehn Farm Rd	160	50-Year	119.87	137.00	140.13		140.13	0.000061	0.49	550.42	430.80	0.05
Tributary 4	Lehn Farm Rd	160	100-Year	141.73	137.00	140.39		140.39	0.000050	0.47	665.00	438.21	0.05
Tributary 4	Lehn Farm Rd	160	500-Year	199.96	137.00	141.04		141.04	0.000034	0.44	956.75	464.01	0.04
Tributary 3B	Rosville Rd	1990	2-Year	23.29	174.80	176.90		176.90	0.000016	0.26	169.40	127.63	0.03
Tributary 3B	Rosville Rd	1990	10-Year	46.43	174.80	177.16		177.16	0.000039	0.43	202.93	132.08	0.05
Tributary 3B	Rosville Rd	1990	25-Year	63.28	174.80	177.29		177.29	0.000058	0.55	220.32	134.69	0.07
Tributary 3B	Rosville Rd	1990	50-Year	73.29	174.80	177.35		177.36	0.000070	0.61	229.25	136.02	0.07
Tributary 3B	Rosville Rd	1990	100-Year	84.98	174.80	177.43		177.44	0.000083	0.68	240.17	137.62	0.08
Tributary 3B	Rosville Rd	1990	500-Year	114.86	174.80	177.63		177.64	0.000113	0.84	267.22	141.51	0.09
Tributary 3B	Rosville Rd	1910	2-Year	23.29	174.20	176.90		176.90	0.000021	0.35	161.91	98.73	0.04
Tributary 3B	Rosville Rd	1910	10-Year	46.43	174.20	177.15		177.16	0.000060	0.64	190.36	121.13	0.07
Tributary 3B	Rosville Rd	1910	25-Year	63.28	174.20	177.28		177.29	0.000091	0.81	205.99	123.57	0.08
Tributary 3B	Rosville Rd	1910	50-Year	73.29	174.20	177.35		177.35	0.000111	0.90	213.97	124.80	0.09
Tributary 3B	Rosville Rd	1910	100-Year	84.98	174.20	177.42		177.43	0.000132	1.01	223.76	126.29	0.10
Tributary 3B	Rosville Rd	1910	500-Year	114.86	174.20	177.61		177.62	0.000183	1.23	248.02	129.91	0.12
Tributary 3B	Rosville Rd	1855	2-Year	23.29	172.20	176.89	173.33	176.90	0.000081	0.59	106.48	78.43	0.05
Tributary 3B	Rosville Rd	1855	10-Year	46.43	172.20	177.14	174.00	177.15	0.000214	0.99	126.83	85.04	0.08

Deadman Brook Tributaries Recommended Model

HEC-RAS Plan: Proposed (Continued)

River	Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
Tributary 3B	Rosville Rd	1855	25-Year	63.28	172.20	177.27	174.40	177.28	0.000328	1.24	137.56	88.80	0.10
Tributary 3B	Rosville Rd	1855	50-Year	73.29	172.20	177.33	174.64	177.34	0.000401	1.38	143.08	90.68	0.11
Tributary 3B	Rosville Rd	1855	100-Year	84.98	172.20	177.40	175.71	177.42	0.000482	1.53	149.96	92.97	0.12
Tributary 3B	Rosville Rd	1855	500-Year	114.86	172.20	177.59	175.94	177.61	0.000675	1.85	167.45	98.55	0.14
Tributary 3B	Rosville Rd	1827.11 Abbotts Ln		Culvert									
Tributary 3B	Rosville Rd	1790	2-Year	23.29	172.10	173.23	173.23	173.80	0.033997	6.05	3.85	3.40	1.00
Tributary 3B	Rosville Rd	1790	10-Year	46.43	172.10	174.16	174.16	174.64	0.017148	5.90	12.54	44.74	0.72
Tributary 3B	Rosville Rd	1790	25-Year	63.28	172.10	174.43	174.43	174.84	0.014526	5.91	26.28	61.86	0.68
Tributary 3B	Rosville Rd	1790	50-Year	73.29	172.10	174.68	174.68	174.93	0.009386	5.08	42.12	76.37	0.56
Tributary 3B	Rosville Rd	1790	100-Year	84.98	172.10	174.74	174.74	175.01	0.010281	5.40	46.74	77.39	0.59
Tributary 3B	Rosville Rd	1790	500-Year	114.86	172.10	174.87	174.87	175.18	0.012337	6.11	56.96	79.60	0.65
Tributary 3B	Rosville Rd	1740	2-Year	23.29	170.40	171.29	171.29	171.61	0.019943	4.56	5.44	10.12	0.98
Tributary 3B	Rosville Rd	1740	10-Year	46.43	170.40	171.69	171.69	172.15	0.015749	5.53	10.66	19.97	0.94
Tributary 3B	Rosville Rd	1740	25-Year	63.28	170.40	171.98	171.98	172.41	0.011665	5.56	18.13	29.12	0.84
Tributary 3B	Rosville Rd	1740	50-Year	73.29	170.40	172.08	172.08	172.54	0.011621	5.82	21.11	30.09	0.85
Tributary 3B	Rosville Rd	1740	100-Year	84.98	170.40	172.19	172.19	172.67	0.011494	6.08	24.50	31.09	0.85
Tributary 3B	Rosville Rd	1740	500-Year	114.86	170.40	172.42	172.42	172.99	0.011712	6.73	32.03	33.21	0.88
Tributary 3B	Rosville Rd	1520	2-Year	23.29	160.40	161.14	161.14	161.33	0.023024	3.55	7.17	25.61	0.97
Tributary 3B	Rosville Rd	1520	10-Year	46.43	160.40	161.37	161.37	161.64	0.018265	4.26	14.57	36.45	0.93
Tributary 3B	Rosville Rd	1520	25-Year	63.28	160.40	161.51	161.51	161.81	0.016957	4.65	19.74	41.49	0.93
Tributary 3B	Rosville Rd	1520	50-Year	73.29	160.40	161.57	161.57	161.90	0.016981	4.90	22.43	43.89	0.94
Tributary 3B	Rosville Rd	1520	100-Year	84.98	160.40	161.64	161.64	162.00	0.016487	5.12	25.88	47.06	0.94
Tributary 3B	Rosville Rd	1520	500-Year	114.86	160.40	161.82	161.82	162.22	0.015645	5.59	34.64	54.97	0.94
Tributary 3B	Rosville Rd	1360	2-Year	23.29	156.00	156.82	156.82	157.03	0.024020	3.68	6.81	20.92	0.99
Tributary 3B	Rosville Rd	1360	10-Year	46.43	156.00	157.09	157.09	157.35	0.016918	4.26	14.89	37.79	0.90
Tributary 3B	Rosville Rd	1360	25-Year	63.28	156.00	157.20	157.20	157.53	0.017748	4.83	19.35	42.01	0.95
Tributary 3B	Rosville Rd	1360	50-Year	73.29	156.00	157.29	157.29	157.62	0.016168	4.94	23.40	50.89	0.92
Tributary 3B	Rosville Rd	1360	100-Year	84.98	156.00	157.41	157.41	157.72	0.012963	4.82	30.45	62.82	0.84
Tributary 3B	Rosville Rd	1360	500-Year	114.86	156.00	157.57	157.57	157.91	0.012634	5.25	41.00	69.97	0.85
Tributary 3B	Rosville Rd	1315	2-Year	23.29	151.80	154.49	152.94	154.59	0.003422	2.55	9.13	3.40	0.27
Tributary 3B	Rosville Rd	1315	10-Year	46.43	151.80	155.96	153.60	156.01	0.001468	2.08	39.13	57.57	0.18
Tributary 3B	Rosville Rd	1315	25-Year	63.28	151.80	156.16	154.00	156.21	0.001570	2.22	51.08	63.22	0.19
Tributary 3B	Rosville Rd	1315	50-Year	73.29	151.80	156.24	154.24	156.30	0.001639	2.29	56.68	65.13	0.19
Tributary 3B	Rosville Rd	1315	100-Year	84.98	151.80	156.37	154.49	156.42	0.001546	2.27	64.99	67.88	0.19
Tributary 3B	Rosville Rd	1315	500-Year	114.86	151.80	156.59	155.89	156.64	0.001558	2.35	80.38	72.70	0.19
Tributary 3B	Rosville Rd	1241.42 Clover Ln		Culvert									
Tributary 3B	Rosville Rd	1185	2-Year	23.29	151.70	152.83	152.83	153.40	0.033986	6.05	3.85	3.40	1.00
Tributary 3B	Rosville Rd	1185	10-Year	46.43	151.70	153.50	153.50	154.39	0.038320	7.60	6.11	3.40	1.00
Tributary 3B	Rosville Rd	1185	25-Year	63.28	151.70	154.37	154.37	154.88	0.016852	6.10	16.66	23.28	0.66
Tributary 3B	Rosville Rd	1185	50-Year	73.29	151.70	154.52	154.52	155.03	0.016591	6.28	20.31	25.21	0.66
Tributary 3B	Rosville Rd	1185	100-Year	84.98	151.70	154.60	154.60	155.19	0.019081	6.86	22.29	26.27	0.71
Tributary 3B	Rosville Rd	1185	500-Year	114.86	151.70	155.20	155.20	155.41	0.007657	4.92	52.96	82.23	0.46
Tributary 3B	Rosville Rd	1135	2-Year	23.29	148.60	149.50	149.50	149.84	0.022697	4.64	5.02	7.63	1.01
Tributary 3B	Rosville Rd	1135	10-Year	46.43	148.60	149.92	149.92	150.37	0.020745	5.42	8.57	9.52	1.01
Tributary 3B	Rosville Rd	1135	25-Year	63.28	148.60	150.13	150.13	150.67	0.019533	5.92	10.76	11.09	1.00
Tributary 3B	Rosville Rd	1135	50-Year	73.29	148.60	150.25	150.25	150.84	0.018487	6.17	12.13	12.21	0.99
Tributary 3B	Rosville Rd	1135	100-Year	84.98	148.60	150.39	150.39	151.02	0.017207	6.40	13.90	13.59	0.98
Tributary 3B	Rosville Rd	1135	500-Year	114.86	148.60	150.78	150.78	151.42	0.012482	6.49	22.57	34.81	0.87
Tributary 3B	Rosville Rd	1030	2-Year	23.29	144.60	145.97	145.97	146.35	0.022727	4.90	4.75	6.49	1.01
Tributary 3B	Rosville Rd	1030	10-Year	46.43	144.60	146.41	146.41	146.98	0.018857	6.05	8.00	8.41	0.99
Tributary 3B	Rosville Rd	1030	25-Year	63.28	144.60	146.68	146.68	147.35	0.016924	6.61	10.47	9.61	0.97
Tributary 3B	Rosville Rd	1030	50-Year	73.29	144.60	146.83	146.83	147.56	0.016368	6.92	11.87	10.23	0.97
Tributary 3B	Rosville Rd	1030	100-Year	84.98	144.60	147.00	147.00	147.78	0.015392	7.19	13.67	10.98	0.96
Tributary 3B	Rosville Rd	1030	500-Year	114.86	144.60	147.35	147.35	148.28	0.014523	7.91	17.78	11.98	0.96
Tributary 3B	Rosville Rd	1010	2-Year	23.29	141.00	143.13	141.87	143.21	0.002194	2.18	10.66	5.00	0.26
Tributary 3B	Rosville Rd	1010	10-Year	46.43	141.00	143.82	142.38	143.99	0.003789	3.29	14.31	6.25	0.34
Tributary 3B	Rosville Rd	1010	25-Year	63.28	141.00	144.19	142.70	144.43	0.004634	3.94	16.86	7.67	0.39
Tributary 3B	Rosville Rd	1010	50-Year	73.29	141.00	144.38	142.88	144.66	0.005073	4.29	18.39	8.41	0.41
Tributary 3B	Rosville Rd	1010	100-Year	84.98	141.00	144.70	143.07	145.01	0.004913	4.49	21.32	9.67	0.41
Tributary 3B	Rosville Rd	1010	500-Year	114.86	141.00	145.48	143.54	145.82	0.004383	4.81	29.86	11.97	0.40
Tributary 3B	Rosville Rd	997.57 Footbridge		Bridge									
Tributary 3B	Rosville Rd	985	2-Year	23.29	141.00	143.07		143.15	0.002374	2.25	10.36	5.00	0.28
Tributary 3B	Rosville Rd	985	10-Year	46.43	141.00	143.70		143.89	0.004371	3.43	13.61	5.89	0.37
Tributary 3B	Rosville Rd	985	25-Year	63.28	141.00	144.03		144.30	0.005496	4.15	15.78	7.31	0.42
Tributary 3B	Rosville Rd	985	50-Year	73.29	141.00	144.20		144.52	0.006129	4.55	17.06	8.03	0.45
Tributary 3B	Rosville Rd	985	100-Year	84.98	141.00	144.37		144.75	0.006848	4.98	18.50	8.78	0.48
Tributary 3B	Rosville Rd	985	500-Year	114.86	141.00	144.76		145.29	0.008463	5.95	22.20	10.44	0.54
Tributary 3B	Rosville Rd	965	2-Year	23.29	141.40	142.54	142.54	142.95	0.018223	5.22	5.16	7.86	0.97
Tributary 3B	Rosville Rd	965	10-Year	46.43	141.40	143.04	143.04	143.62	0.014862	6.34	9.86	10.66	0.94
Tributary 3B	Rosville Rd	965	25-Year	63.28	141.40	143.32	143.32	144.01	0.014258	7.00	12.97	11.66	0.95
Tributary 3B	Rosville Rd	965	50-Year	73.29	141.40	143.47	143.47	144.21	0.013956	7.33	14.77	12.20	0.95
Tributary 3B	Rosville Rd	965	100-Year	84.98	141.40	143.64	143.64	144.44	0.013547	7.66	16.89	12.81	0.95
Tributary 3B	Rosville Rd	965	500-Year	114.86	141.40	144.02	144.02	144.96	0.013088	8.45	22.02	14.41	0.96

Deadman Brook Tributaries Recommended Model

HEC-RAS Plan: Proposed (Continued)

River	Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
Tributary 3B	Rosville Rd	925	2-Year	23.29	139.20	140.20	140.20	140.60	0.019238	5.11	4.93	7.43	0.98
Tributary 3B	Rosville Rd	925	10-Year	46.43	139.20	140.69	140.69	141.27	0.015852	6.27	9.12	9.89	0.96
Tributary 3B	Rosville Rd	925	25-Year	63.28	139.20	140.96	140.96	141.66	0.015047	6.92	12.04	11.30	0.96
Tributary 3B	Rosville Rd	925	50-Year	73.29	139.20	141.12	141.12	141.86	0.014299	7.20	13.95	12.37	0.95
Tributary 3B	Rosville Rd	925	100-Year	84.98	139.20	141.30	141.30	142.09	0.013565	7.47	16.27	13.65	0.94
Tributary 3B	Rosville Rd	925	500-Year	114.86	139.20	141.70	141.70	142.59	0.012346	8.07	22.30	16.51	0.93
Tributary 3B	Rosville Rd	870	2-Year	23.29	134.30	136.58	135.07	136.62	0.001143	1.70	13.66	6.00	0.20
Tributary 3B	Rosville Rd	870	10-Year	46.43	134.30	137.69	135.53	137.77	0.001560	2.29	20.32	6.00	0.22
Tributary 3B	Rosville Rd	870	25-Year	63.28	134.30	138.19	135.82	138.30	0.001922	2.69	24.29	16.14	0.24
Tributary 3B	Rosville Rd	870	50-Year	73.29	134.30	138.31	135.97	138.45	0.002237	2.97	26.73	22.87	0.26
Tributary 3B	Rosville Rd	870	100-Year	84.98	134.30	138.42	136.14	138.58	0.002595	3.26	29.57	27.92	0.28
Tributary 3B	Rosville Rd	870	500-Year	114.86	134.30	138.65	136.55	138.85	0.003328	3.82	36.18	32.33	0.32
Tributary 3B	Rosville Rd	854.72	Footbridge	Culvert									
Tributary 3B	Rosville Rd	840	2-Year	23.29	134.20	135.87	134.98	135.95	0.002341	2.30	10.29	6.61	0.31
Tributary 3B	Rosville Rd	840	10-Year	46.43	134.20	136.19	135.43	136.41	0.005385	3.82	12.50	7.62	0.48
Tributary 3B	Rosville Rd	840	25-Year	63.28	134.20	136.38	135.73	136.71	0.007142	4.68	14.26	10.58	0.56
Tributary 3B	Rosville Rd	840	50-Year	73.29	134.20	136.49	135.88	136.88	0.007882	5.08	15.52	12.11	0.59
Tributary 3B	Rosville Rd	840	100-Year	84.98	134.20	136.60	136.04	137.05	0.008799	5.53	16.86	13.51	0.63
Tributary 3B	Rosville Rd	840	500-Year	114.86	134.20	136.80	136.74	137.41	0.011117	6.55	19.51	25.03	0.72
Tributary 3B	Rosville Rd	830	2-Year	23.29	134.40	135.54	135.54	135.84	0.013623	4.66	5.77	10.14	0.83
Tributary 3B	Rosville Rd	830	10-Year	46.43	134.40	135.92	135.92	136.29	0.011949	5.45	10.43	13.27	0.82
Tributary 3B	Rosville Rd	830	25-Year	63.28	134.40	136.38	136.12	136.59	0.005389	4.43	18.68	24.28	0.58
Tributary 3B	Rosville Rd	830	50-Year	73.29	134.40	136.52	136.31	136.73	0.004553	4.30	21.97	26.54	0.54
Tributary 3B	Rosville Rd	830	100-Year	84.98	134.40	136.66	136.38	136.86	0.004179	4.30	25.06	29.50	0.52
Tributary 3B	Rosville Rd	830	500-Year	114.86	134.40	136.92	136.56	137.15	0.004032	4.57	31.13	35.10	0.52
Tributary 3B	Rosville Rd	805	2-Year	23.29	132.00	134.41	132.94	134.48	0.002100	2.15	10.83	4.50	0.24
Tributary 3B	Rosville Rd	805	10-Year	46.43	132.00	135.65	133.49	135.77	0.002725	2.81	16.87	10.78	0.26
Tributary 3B	Rosville Rd	805	25-Year	63.28	132.00	136.39	133.83	136.45	0.001426	2.30	34.82	36.03	0.19
Tributary 3B	Rosville Rd	805	50-Year	73.29	132.00	136.53	134.01	136.60	0.001374	2.31	40.51	40.52	0.19
Tributary 3B	Rosville Rd	805	100-Year	84.98	132.00	136.67	134.23	136.74	0.001353	2.33	46.37	43.84	0.19
Tributary 3B	Rosville Rd	805	500-Year	114.86	132.00	136.94	134.73	137.01	0.001367	2.44	58.90	48.70	0.19
Tributary 3B	Rosville Rd	788.18	Driveway Bridge	Culvert									
Tributary 3B	Rosville Rd	760	2-Year	23.29	131.90	132.89	132.84	133.31	0.025006	5.23	4.45	4.50	0.93
Tributary 3B	Rosville Rd	760	10-Year	46.43	131.90	133.39	133.39	134.13	0.030972	6.94	6.69	4.50	1.00
Tributary 3B	Rosville Rd	760	25-Year	63.28	131.90	134.16	134.16	134.40	0.007776	4.43	21.67	38.16	0.52
Tributary 3B	Rosville Rd	760	50-Year	73.29	131.90	134.22	134.22	134.47	0.008204	4.63	23.91	39.70	0.54
Tributary 3B	Rosville Rd	760	100-Year	84.98	131.90	134.28	134.28	134.54	0.008769	4.86	26.15	41.18	0.56
Tributary 3B	Rosville Rd	760	500-Year	114.86	131.90	134.41	134.41	134.71	0.009401	5.22	31.89	44.75	0.58
Tributary 3B	Rosville Rd	735	2-Year	23.29	131.40	132.22	132.22	132.63	0.026812	5.15	4.53	5.96	1.00
Tributary 3B	Rosville Rd	735	10-Year	46.43	131.40	132.89	132.89	133.12	0.008310	4.27	15.92	35.27	0.62
Tributary 3B	Rosville Rd	735	25-Year	63.28	131.40	133.04	133.04	133.25	0.007669	4.36	21.75	43.87	0.60
Tributary 3B	Rosville Rd	735	50-Year	73.29	131.40	133.09	133.09	133.32	0.007844	4.50	24.10	44.39	0.61
Tributary 3B	Rosville Rd	735	100-Year	84.98	131.40	133.14	133.14	133.39	0.008184	4.69	26.41	44.89	0.63
Tributary 3B	Rosville Rd	735	500-Year	114.86	131.40	133.25	133.25	133.55	0.009274	5.19	31.11	45.89	0.67
Tributary 3B	Rosville Rd	535	2-Year	23.29	129.60	130.53		130.59	0.004361	2.01	13.42	37.23	0.45
Tributary 3B	Rosville Rd	535	10-Year	46.43	129.60	130.75		130.84	0.004608	2.54	23.65	55.29	0.49
Tributary 3B	Rosville Rd	535	25-Year	63.28	129.60	130.87		130.96	0.004619	2.77	30.41	62.02	0.50
Tributary 3B	Rosville Rd	535	50-Year	73.29	129.60	130.92		131.03	0.004648	2.89	34.01	64.40	0.51
Tributary 3B	Rosville Rd	535	100-Year	84.98	129.60	130.99	130.80	131.10	0.004616	3.00	38.21	67.07	0.51
Tributary 3B	Rosville Rd	535	500-Year	114.86	129.60	131.12	130.90	131.25	0.004662	3.26	47.32	70.65	0.52
Tributary 3B	Rosville Rd	335	2-Year	23.29	128.40	129.24	129.24	129.38	0.008702	3.09	9.61	43.33	0.65
Tributary 3B	Rosville Rd	335	10-Year	46.43	128.40	129.42	129.40	129.58	0.009005	3.67	17.68	46.65	0.69
Tributary 3B	Rosville Rd	335	25-Year	63.28	128.40	129.52	129.50	129.69	0.008987	3.94	22.35	48.47	0.70
Tributary 3B	Rosville Rd	335	50-Year	73.29	128.40	129.57	129.54	129.75	0.008927	4.06	24.93	49.44	0.71
Tributary 3B	Rosville Rd	335	100-Year	84.98	128.40	129.62	129.59	129.82	0.009155	4.25	27.47	50.39	0.72
Tributary 3B	Rosville Rd	335	500-Year	114.86	128.40	129.75	129.70	129.98	0.008879	4.53	34.37	52.86	0.73
Tributary 3B	Rosville Rd	175	2-Year	23.29	126.20	126.97	126.97	127.17	0.024812	3.59	6.75	19.82	1.00
Tributary 3B	Rosville Rd	175	10-Year	46.43	126.20	127.20	127.20	127.49	0.019849	4.38	12.21	26.78	0.97
Tributary 3B	Rosville Rd	175	25-Year	63.28	126.20	127.35	127.35	127.69	0.018078	4.79	16.32	31.15	0.96
Tributary 3B	Rosville Rd	175	50-Year	73.29	126.20	127.42	127.42	127.79	0.017345	4.99	18.77	33.49	0.95
Tributary 3B	Rosville Rd	175	100-Year	84.98	126.20	127.51	127.51	127.90	0.015998	5.14	22.04	36.37	0.93
Tributary 3B	Rosville Rd	175	500-Year	114.86	126.20	127.71	127.71	128.16	0.014681	5.59	30.62	55.24	0.92
Tributary 3A	Roseville Rd	1115	2-Year	13.09	143.40	143.93	143.93	144.12	0.025443	3.49	3.75	10.05	1.01
Tributary 3A	Roseville Rd	1115	10-Year	27.94	143.40	144.18	144.18	144.47	0.021048	4.33	6.66	13.32	0.99
Tributary 3A	Roseville Rd	1115	25-Year	39.00	143.40	144.33	144.33	144.68	0.018996	4.78	8.82	15.40	0.98
Tributary 3A	Roseville Rd	1115	50-Year	45.59	143.40	144.41	144.41	144.80	0.018183	5.01	10.12	16.52	0.97
Tributary 3A	Roseville Rd	1115	100-Year	53.35	143.40	144.51	144.51	144.92	0.017317	5.24	11.68	17.77	0.96
Tributary 3A	Roseville Rd	1115	500-Year	73.57	143.40	144.72	144.72	145.21	0.015773	5.75	15.77	28.84	0.95
Tributary 3A	Roseville Rd	1100	2-Year	13.09	142.20	142.91	142.64	142.98	0.005084	2.15	6.08	9.65	0.48
Tributary 3A	Roseville Rd	1100	10-Year	27.94	142.20	143.27	142.92	143.39	0.005705	2.88	9.72	10.74	0.53
Tributary 3A	Roseville Rd	1100	25-Year	39.00	142.20	143.47	143.08	143.64	0.005964	3.24	12.02	11.37	0.56
Tributary 3A	Roseville Rd	1100	50-Year	45.59	142.20	143.59	143.17	143.77	0.006072	3.43	13.31	11.71	0.57
Tributary 3A	Roseville Rd	1100	100-Year	53.35	142.20	143.71	143.27	143.91	0.006205	3.62	14.73	12.07	0.58
Tributary 3A	Roseville Rd	1100	500-Year	73.57	142.20	143.99	143.51	144.24	0.006313	4.01	18.34	12.95	0.59

Deadman Brook Tributaries Recommended Model

HEC-RAS Plan: Proposed (Continued)

River	Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
Tributary 3A	Roseville Rd	1087.96	Footbridge	Bridge									
Tributary 3A	Roseville Rd	1070	2-Year	13.09	141.00	141.48	141.48	141.66	0.025707	3.43	3.81	10.54	1.01
Tributary 3A	Roseville Rd	1070	10-Year	27.94	141.00	141.73	141.73	141.99	0.022732	4.08	6.84	13.24	1.00
Tributary 3A	Roseville Rd	1070	25-Year	39.00	141.00	141.87	141.87	142.18	0.021858	4.42	8.83	14.75	1.01
Tributary 3A	Roseville Rd	1070	50-Year	45.59	141.00	141.95	141.95	142.27	0.021343	4.57	9.98	15.55	1.01
Tributary 3A	Roseville Rd	1070	100-Year	53.35	141.00	142.02	142.02	142.38	0.021001	4.77	11.18	16.49	1.01
Tributary 3A	Roseville Rd	1070	500-Year	73.57	141.00	142.35	142.35	142.59	0.009427	4.13	21.21	51.50	0.72
Tributary 3A	Roseville Rd	1020	2-Year	13.09	138.40	139.06	139.06	139.29	0.024324	3.82	3.44	8.16	1.01
Tributary 3A	Roseville Rd	1020	10-Year	27.94	138.40	139.36	139.36	139.72	0.019481	4.82	6.21	10.32	0.98
Tributary 3A	Roseville Rd	1020	25-Year	39.00	138.40	139.55	139.55	139.98	0.017740	5.33	8.24	11.65	0.97
Tributary 3A	Roseville Rd	1020	50-Year	45.59	138.40	139.65	139.65	140.12	0.017003	5.58	9.44	12.37	0.97
Tributary 3A	Roseville Rd	1020	100-Year	53.35	138.40	139.76	139.76	140.27	0.016300	5.85	10.85	13.16	0.97
Tributary 3A	Roseville Rd	1020	500-Year	73.57	138.40	140.02	140.02	140.63	0.014938	6.43	14.53	15.06	0.96
Tributary 3A	Roseville Rd	820	2-Year	13.09	133.40	133.99	133.99	134.16	0.025873	3.34	3.92	11.31	1.00
Tributary 3A	Roseville Rd	820	10-Year	27.94	133.40	134.25	134.25	134.49	0.018123	4.01	8.08	25.21	0.92
Tributary 3A	Roseville Rd	820	25-Year	39.00	133.40	134.38	134.38	134.66	0.016875	4.42	11.55	27.62	0.91
Tributary 3A	Roseville Rd	820	50-Year	45.59	133.40	134.44	134.44	134.76	0.016420	4.63	13.50	29.25	0.92
Tributary 3A	Roseville Rd	820	100-Year	53.35	133.40	134.53	134.53	134.85	0.015616	4.82	15.94	31.38	0.91
Tributary 3A	Roseville Rd	820	500-Year	73.57	133.40	134.70	134.70	135.08	0.014684	5.28	21.85	35.32	0.91
Tributary 3A	Roseville Rd	680	2-Year	13.09	130.40	132.13		132.14	0.000332	0.99	16.05	16.36	0.14
Tributary 3A	Roseville Rd	680	10-Year	27.94	130.40	132.52		132.55	0.000596	1.55	23.12	19.84	0.20
Tributary 3A	Roseville Rd	680	25-Year	39.00	130.40	132.78		132.83	0.000678	1.81	28.63	22.17	0.22
Tributary 3A	Roseville Rd	680	50-Year	45.59	130.40	132.88		132.93	0.000774	1.99	30.76	23.01	0.24
Tributary 3A	Roseville Rd	680	100-Year	53.35	130.40	132.98		133.04	0.000884	2.19	33.06	23.88	0.25
Tributary 3A	Roseville Rd	680	500-Year	73.57	130.40	133.18		133.27	0.001186	2.68	38.25	26.72	0.30
Tributary 3A	Roseville Rd	525	2-Year	13.09	131.40	131.80	131.80	131.96	0.026244	3.22	4.07	12.63	1.00
Tributary 3A	Roseville Rd	525	10-Year	27.94	131.40	132.02	132.02	132.26	0.023397	3.90	7.17	15.57	1.00
Tributary 3A	Roseville Rd	525	25-Year	39.00	131.40	132.54		132.62	0.003222	2.38	21.86	42.09	0.42
Tributary 3A	Roseville Rd	525	50-Year	45.59	131.40	132.62		132.71	0.003197	2.50	25.43	46.94	0.43
Tributary 3A	Roseville Rd	525	100-Year	53.35	131.40	132.71		132.80	0.003115	2.60	29.84	52.59	0.43
Tributary 3A	Roseville Rd	525	500-Year	73.57	131.40	132.90		133.00	0.002943	2.79	40.73	61.99	0.42
Tributary 3A	Roseville Rd	505	2-Year	13.09	130.20	131.10	130.80	131.18	0.005490	2.35	5.58	8.24	0.50
Tributary 3A	Roseville Rd	505	10-Year	27.94	130.20	131.69	131.13	131.79	0.003514	2.47	11.31	10.93	0.43
Tributary 3A	Roseville Rd	505	25-Year	39.00	130.20	132.53	131.32	132.57	0.000869	1.73	25.86	29.34	0.23
Tributary 3A	Roseville Rd	505	50-Year	45.59	130.20	132.61	131.42	132.66	0.000993	1.90	28.20	31.80	0.25
Tributary 3A	Roseville Rd	505	100-Year	53.35	130.20	132.69	131.53	132.75	0.001121	2.08	30.97	34.49	0.27
Tributary 3A	Roseville Rd	505	500-Year	73.57	130.20	132.86	131.80	132.95	0.001441	2.51	37.46	46.72	0.31
Tributary 3A	Roseville Rd	492.49	Footbridge	Bridge									
Tributary 3A	Roseville Rd	480	2-Year	13.09	130.20	130.72	130.72	130.91	0.025453	3.48	3.76	10.11	1.01
Tributary 3A	Roseville Rd	480	10-Year	27.94	130.20	130.98	130.98	131.25	0.022645	4.11	6.80	13.03	1.00
Tributary 3A	Roseville Rd	480	25-Year	39.00	130.20	131.12	131.12	131.44	0.020474	4.53	8.70	14.89	0.99
Tributary 3A	Roseville Rd	480	50-Year	45.59	130.20	131.20	131.20	131.54	0.018970	4.70	9.92	16.00	0.97
Tributary 3A	Roseville Rd	480	100-Year	53.35	130.20	131.29	131.29	131.65	0.017628	4.89	11.41	18.09	0.95
Tributary 3A	Roseville Rd	480	500-Year	73.57	130.20	131.50	131.50	131.90	0.014534	5.18	15.80	23.20	0.90
Tributary 3A	Roseville Rd	435	2-Year	13.09	127.80	128.76		128.84	0.007050	2.22	5.89	11.72	0.55
Tributary 3A	Roseville Rd	435	10-Year	27.94	127.80	129.05		129.18	0.007705	2.83	9.87	14.83	0.61
Tributary 3A	Roseville Rd	435	25-Year	39.00	127.80	129.18		129.35	0.008321	3.31	11.84	15.37	0.65
Tributary 3A	Roseville Rd	435	50-Year	45.59	127.80	129.25		129.45	0.008635	3.56	12.90	15.66	0.67
Tributary 3A	Roseville Rd	435	100-Year	53.35	127.80	129.33		129.56	0.008829	3.81	14.14	15.99	0.69
Tributary 3A	Roseville Rd	435	500-Year	73.57	127.80	129.54		129.82	0.008506	4.27	17.58	16.87	0.70
Tributary 3A	Roseville Rd	325	2-Year	13.09	126.40	127.39	127.39	127.66	0.016965	4.38	3.42	7.27	0.89
Tributary 3A	Roseville Rd	325	10-Year	27.94	126.40	127.81	127.81	128.11	0.011873	4.93	7.88	15.08	0.80
Tributary 3A	Roseville Rd	325	25-Year	39.00	126.40	128.02	128.02	128.31	0.010236	5.09	11.43	19.06	0.76
Tributary 3A	Roseville Rd	325	50-Year	45.59	126.40	128.10	128.10	128.41	0.009850	5.21	13.16	19.97	0.76
Tributary 3A	Roseville Rd	325	100-Year	53.35	126.40	128.18	128.18	128.51	0.010028	5.44	14.80	20.80	0.77
Tributary 3A	Roseville Rd	325	500-Year	73.57	126.40	128.35	128.34	128.74	0.011050	6.10	18.27	22.45	0.82
Tributary 3A	Roseville Rd	275	2-Year	13.09	124.20	125.94	124.93	125.97	0.000927	1.33	9.85	8.32	0.22
Tributary 3A	Roseville Rd	275	10-Year	27.94	124.20	126.88	125.34	126.92	0.000644	1.52	19.44	12.12	0.19
Tributary 3A	Roseville Rd	275	25-Year	39.00	124.20	127.51	125.57	127.55	0.000474	1.56	28.61	17.68	0.17
Tributary 3A	Roseville Rd	275	50-Year	45.59	124.20	127.87	125.69	127.91	0.000387	1.54	35.73	21.33	0.16
Tributary 3A	Roseville Rd	275	100-Year	53.35	124.20	128.11	125.83	128.14	0.000389	1.62	40.97	24.37	0.16
Tributary 3A	Roseville Rd	275	500-Year	73.57	124.20	128.44	126.12	128.49	0.000481	1.93	50.06	30.00	0.18
Tributary 3A	Roseville Rd	247.91	Clover Ln	Culvert									
Tributary 3A	Roseville Rd	215	2-Year	13.09	124.10	124.67	124.67	124.85	0.025253	3.41	3.84	10.49	0.99
Tributary 3A	Roseville Rd	215	10-Year	27.94	124.10	124.91	124.91	125.20	0.021674	4.29	6.51	13.70	0.99
Tributary 3A	Roseville Rd	215	25-Year	39.00	124.10	125.05	125.05	125.41	0.020940	4.81	8.11	15.20	1.01
Tributary 3A	Roseville Rd	215	50-Year	45.59	124.10	125.14	125.14	125.53	0.020293	5.04	9.05	15.70	1.01
Tributary 3A	Roseville Rd	215	100-Year	53.35	124.10	125.23	125.23	125.66	0.019671	5.28	10.10	16.26	1.01
Tributary 3A	Roseville Rd	215	500-Year	73.57	124.10	125.45	125.45	125.96	0.018155	5.78	12.73	17.64	1.00
Tributary 3A	Roseville Rd	170	2-Year	13.09	123.60	124.17		124.23	0.006141	1.99	6.71	16.23	0.51
Tributary 3A	Roseville Rd	170	10-Year	27.94	123.60	124.29		124.46	0.012490	3.33	8.82	17.86	0.76
Tributary 3A	Roseville Rd	170	25-Year	39.00	123.60	124.48		124.66	0.009121	3.43	12.46	20.38	0.68
Tributary 3A	Roseville Rd	170	50-Year	45.59	123.60	124.48	124.40	124.72	0.012809	4.04	12.34	20.30	0.81
Tributary 3A	Roseville Rd	170	100-Year	53.35	123.60	124.58	124.47	124.83	0.011237	4.11	14.50	21.66	0.77

Deadman Brook Tributaries Recommended Model

HEC-RAS Plan: Proposed (Continued)

River	Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
Tributary 3A	Roseville Rd	170	500-Year	73.57	123.60	124.65	124.65	125.05	0.016421	5.22	15.97	22.53	0.95
Tributary 3A	Roseville Rd	130	2-Year	13.09	119.80	124.20	120.49	124.20	0.000020	0.35	49.96	22.53	0.03
Tributary 3A	Roseville Rd	130	10-Year	27.94	119.80	124.36	120.95	124.37	0.000072	0.68	53.84	23.91	0.06
Tributary 3A	Roseville Rd	130	25-Year	39.00	119.80	124.55	121.22	124.56	0.000113	0.88	58.49	25.47	0.07
Tributary 3A	Roseville Rd	130	50-Year	45.59	119.80	124.57	121.62	124.59	0.000150	1.01	59.03	25.65	0.08
Tributary 3A	Roseville Rd	130	100-Year	53.35	119.80	124.67	121.72	124.69	0.000183	1.14	61.62	26.47	0.09
Tributary 3A	Roseville Rd	130	500-Year	73.57	119.80	124.64	121.94	124.67	0.000361	1.59	60.73	26.19	0.13
Tributary 3A	Roseville Rd	114.97	Footbridge	Culvert									
Tributary 3A	Roseville Rd	100	2-Year	13.09	119.80	124.19	120.49	124.20	0.000008	0.22	80.00	60.20	0.02
Tributary 3A	Roseville Rd	100	10-Year	27.94	119.80	124.36	120.96	124.36	0.000025	0.40	90.16	61.92	0.03
Tributary 3A	Roseville Rd	100	25-Year	39.00	119.80	124.55	121.50	124.55	0.000034	0.48	101.97	63.85	0.04
Tributary 3A	Roseville Rd	100	50-Year	45.59	119.80	124.57	121.63	124.58	0.000044	0.55	103.43	64.09	0.04
Tributary 3A	Roseville Rd	100	100-Year	53.35	119.80	124.66	121.72	124.66	0.000052	0.60	108.93	64.97	0.05
Tributary 3A	Roseville Rd	100	500-Year	73.57	119.80	124.63	121.94	124.64	0.000103	0.85	107.46	64.73	0.07
Tributary 3A	Roseville Rd	45	2-Year	13.09	121.20	124.19		124.19	0.000002	0.12	184.55	109.24	0.01
Tributary 3A	Roseville Rd	45	10-Year	27.94	121.20	124.36		124.36	0.000007	0.22	202.93	111.41	0.02
Tributary 3A	Roseville Rd	45	25-Year	39.00	121.20	124.55		124.55	0.000010	0.28	224.09	113.86	0.03
Tributary 3A	Roseville Rd	45	50-Year	45.59	121.20	124.57		124.57	0.000013	0.33	226.71	114.16	0.03
Tributary 3A	Roseville Rd	45	100-Year	53.35	121.20	124.66		124.66	0.000016	0.37	236.50	115.27	0.04
Tributary 3A	Roseville Rd	45	500-Year	73.57	121.20	124.64		124.64	0.000031	0.51	233.95	114.98	0.05
Tributary 3	Roseville Rd	1975	2-Year	52.73	120.00	124.19		124.19	0.000005	0.14	317.74	163.75	0.01
Tributary 3	Roseville Rd	1975	10-Year	91.45	120.00	124.36		124.36	0.000011	0.23	345.37	169.27	0.02
Tributary 3	Roseville Rd	1975	25-Year	110.11	120.00	124.55		124.55	0.000013	0.25	377.76	175.52	0.02
Tributary 3	Roseville Rd	1975	50-Year	120.56	120.00	124.57		124.57	0.000015	0.27	381.79	176.28	0.02
Tributary 3	Roseville Rd	1975	100-Year	127.64	120.00	124.66		124.66	0.000015	0.27	397.00	179.21	0.02
Tributary 3	Roseville Rd	1975	500-Year	142.47	120.00	124.63		124.64	0.000019	0.30	393.10	178.43	0.02
Tributary 3	Roseville Rd	1960	2-Year	52.73	118.80	124.19	121.26	124.19	0.000012	0.27	231.32	144.55	0.02
Tributary 3	Roseville Rd	1960	10-Year	91.45	118.80	124.36	121.80	124.36	0.000027	0.41	255.79	151.91	0.03
Tributary 3	Roseville Rd	1960	25-Year	110.11	118.80	124.55	122.08	124.55	0.000029	0.43	285.10	160.34	0.03
Tributary 3	Roseville Rd	1960	50-Year	120.56	118.80	124.57	122.15	124.57	0.000034	0.47	288.74	161.37	0.03
Tributary 3	Roseville Rd	1960	100-Year	127.64	118.80	124.65	122.20	124.66	0.000033	0.47	302.72	165.29	0.03
Tributary 3	Roseville Rd	1960	500-Year	142.47	118.80	124.63	122.30	124.64	0.000042	0.53	299.04	164.25	0.04
Tributary 3	Roseville Rd	1946.17	Driveway Bridge	Culvert									
Tributary 3	Roseville Rd	1930	2-Year	52.73	118.70	124.18	120.83	124.19	0.000024	0.29	175.25	115.85	0.02
Tributary 3	Roseville Rd	1930	10-Year	91.45	118.70	124.35	122.46	124.36	0.000053	0.45	196.00	127.75	0.03
Tributary 3	Roseville Rd	1930	25-Year	110.11	118.70	124.50	122.53	124.50	0.000058	0.48	215.28	137.62	0.04
Tributary 3	Roseville Rd	1930	50-Year	120.56	118.70	124.56	122.57	124.56	0.000062	0.50	223.46	141.60	0.04
Tributary 3	Roseville Rd	1930	100-Year	127.64	118.70	124.60	122.60	124.60	0.000065	0.51	229.21	144.38	0.04
Tributary 3	Roseville Rd	1930	500-Year	142.47	118.70	124.63	122.63	124.64	0.000076	0.56	233.73	146.63	0.04
Tributary 3	Roseville Rd	1895	2-Year	52.73	116.80	124.18		124.19	0.000009	0.25	224.79	105.78	0.02
Tributary 3	Roseville Rd	1895	10-Year	91.45	116.80	124.35		124.36	0.000024	0.40	243.73	117.19	0.03
Tributary 3	Roseville Rd	1895	25-Year	110.11	116.80	124.50		124.50	0.000029	0.45	261.53	128.24	0.03
Tributary 3	Roseville Rd	1895	50-Year	120.56	116.80	124.56		124.56	0.000032	0.47	269.16	132.94	0.03
Tributary 3	Roseville Rd	1895	100-Year	127.64	116.80	124.60		124.60	0.000034	0.49	274.57	136.11	0.03
Tributary 3	Roseville Rd	1895	500-Year	142.47	116.80	124.63		124.63	0.000040	0.53	278.82	138.42	0.03
Tributary 3	Roseville Rd	1860	2-Year	52.73	119.30	124.18	121.00	124.18	0.000116	0.76	93.92	98.05	0.06
Tributary 3	Roseville Rd	1860	10-Year	91.45	119.30	124.34	122.41	124.35	0.000258	1.15	112.00	118.91	0.09
Tributary 3	Roseville Rd	1860	25-Year	110.11	119.30	124.48	122.56	124.50	0.000252	1.16	130.07	130.52	0.09
Tributary 3	Roseville Rd	1860	50-Year	120.56	119.30	124.54	122.63	124.56	0.000257	1.18	137.76	134.80	0.09
Tributary 3	Roseville Rd	1860	100-Year	127.64	119.30	124.58	122.68	124.60	0.000257	1.19	143.19	137.65	0.09
Tributary 3	Roseville Rd	1860	500-Year	142.47	119.30	124.61	122.77	124.63	0.000296	1.28	147.12	139.67	0.10
Tributary 3	Roseville Rd	1820.68	Joann Circle Dr	Bridge									
Tributary 3	Roseville Rd	1795	2-Year	52.73	119.20	121.25	120.42	121.32	0.001564	2.01	26.44	21.90	0.31
Tributary 3	Roseville Rd	1795	10-Year	91.45	119.20	121.66	120.90	121.77	0.001902	2.65	36.19	25.93	0.35
Tributary 3	Roseville Rd	1795	25-Year	110.11	119.20	121.80	121.10	121.93	0.002100	2.93	39.97	27.33	0.38
Tributary 3	Roseville Rd	1795	50-Year	120.56	119.20	121.86	121.20	122.01	0.002260	3.10	41.60	27.92	0.39
Tributary 3	Roseville Rd	1795	100-Year	127.64	119.20	121.90	121.20	122.06	0.002355	3.21	42.74	28.32	0.40
Tributary 3	Roseville Rd	1795	500-Year	142.47	119.20	122.00	121.20	122.18	0.002452	3.39	45.72	29.37	0.41
Tributary 3	Roseville Rd	1745	2-Year	52.73	119.80	121.12		121.20	0.003494	2.25	24.91	45.06	0.43
Tributary 3	Roseville Rd	1745	10-Year	91.45	119.80	121.59		121.65	0.001780	2.15	47.33	50.80	0.33
Tributary 3	Roseville Rd	1745	25-Year	110.11	119.80	121.74		121.81	0.001658	2.23	55.12	52.65	0.32
Tributary 3	Roseville Rd	1745	50-Year	120.56	119.80	121.80		121.87	0.001687	2.31	58.31	53.39	0.33
Tributary 3	Roseville Rd	1745	100-Year	127.64	119.80	121.84		121.91	0.001692	2.35	60.58	53.91	0.33
Tributary 3	Roseville Rd	1745	500-Year	142.47	119.80	121.95		122.03	0.001590	2.39	66.73	55.29	0.32
Tributary 3	Roseville Rd	1590	2-Year	52.73	118.60	121.02		121.04	0.000394	1.27	44.27	31.60	0.16
Tributary 3	Roseville Rd	1590	10-Year	91.45	118.60	121.47		121.51	0.000522	1.68	64.42	92.27	0.20
Tributary 3	Roseville Rd	1590	25-Year	110.11	118.60	121.62		121.66	0.000538	1.78	76.52	107.10	0.20
Tributary 3	Roseville Rd	1590	50-Year	120.56	118.60	121.68		121.72	0.000567	1.86	81.36	112.25	0.21
Tributary 3	Roseville Rd	1590	100-Year	127.64	118.60	121.72		121.76	0.000578	1.90	85.08	116.06	0.21
Tributary 3	Roseville Rd	1590	500-Year	142.47	118.60	121.84		121.89	0.000542	1.90	96.80	127.76	0.20
Tributary 3	Roseville Rd	1440	2-Year	52.73	118.20	121.00		121.01	0.000145	0.94	126.64	108.22	0.10
Tributary 3	Roseville Rd	1440	10-Year	91.45	118.20	121.45		121.46	0.000176	1.16	176.77	115.21	0.12
Tributary 3	Roseville Rd	1440	25-Year	110.11	118.20	121.60		121.61	0.000196	1.26	194.20	117.53	0.13

Deadman Brook Tributaries Recommended Model

HEC-RAS Plan: Proposed (Continued)

River	Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
Tributary 3	Roseville Rd	1440	50-Year	120.56	118.20	121.65		121.66	0.000214	1.34	200.51	118.36	0.13
Tributary 3	Roseville Rd	1440	100-Year	127.64	118.20	121.69		121.70	0.000225	1.38	205.26	118.99	0.14
Tributary 3	Roseville Rd	1440	500-Year	142.47	118.20	121.81		121.83	0.000229	1.43	220.00	120.89	0.14
Tributary 3	Roseville Rd	1315	2-Year	52.73	117.80	120.98	119.13	120.99	0.000321	1.26	58.33	51.45	0.12
Tributary 3	Roseville Rd	1315	10-Year	91.45	117.80	121.42	119.85	121.44	0.000375	1.48	82.32	57.28	0.14
Tributary 3	Roseville Rd	1315	25-Year	110.11	117.80	121.56	120.38	121.59	0.000415	1.60	90.77	59.19	0.14
Tributary 3	Roseville Rd	1315	50-Year	120.56	117.80	121.61	120.41	121.64	0.000455	1.69	93.72	59.84	0.15
Tributary 3	Roseville Rd	1315	100-Year	127.64	117.80	121.65	120.44	121.68	0.000477	1.74	95.98	60.33	0.16
Tributary 3	Roseville Rd	1315	500-Year	142.47	117.80	121.77	120.50	121.81	0.000483	1.79	103.35	61.92	0.16
Tributary 3	Roseville Rd	1279.15 Footbridge		Bridge									
Tributary 3	Roseville Rd	1240	2-Year	52.73	117.80	120.90		120.94	0.000759	1.90	41.22	35.75	0.19
Tributary 3	Roseville Rd	1240	10-Year	91.45	117.80	121.33		121.39	0.000983	2.35	58.03	41.66	0.22
Tributary 3	Roseville Rd	1240	25-Year	110.11	117.80	121.46		121.53	0.001114	2.57	63.77	43.24	0.24
Tributary 3	Roseville Rd	1240	50-Year	120.56	117.80	121.50		121.58	0.001249	2.74	65.43	43.69	0.25
Tributary 3	Roseville Rd	1240	100-Year	127.64	117.80	121.53		121.62	0.001325	2.84	66.81	44.06	0.26
Tributary 3	Roseville Rd	1240	500-Year	142.47	117.80	121.65		121.74	0.001346	2.92	72.18	45.46	0.26
Tributary 3	Roseville Rd	1190	2-Year	52.73	119.00	120.78		120.87	0.002002	2.49	24.85	27.32	0.35
Tributary 3	Roseville Rd	1190	10-Year	91.45	119.00	121.17		121.30	0.002336	3.11	36.87	34.74	0.39
Tributary 3	Roseville Rd	1190	25-Year	110.11	119.00	121.27		121.43	0.002686	3.45	40.58	36.69	0.42
Tributary 3	Roseville Rd	1190	50-Year	120.56	119.00	121.27		121.45	0.003251	3.80	40.41	36.60	0.47
Tributary 3	Roseville Rd	1190	100-Year	127.64	119.00	121.27		121.48	0.003624	4.01	40.51	36.65	0.49
Tributary 3	Roseville Rd	1190	500-Year	142.47	119.00	121.39		121.60	0.003467	4.08	45.16	38.96	0.49
Tributary 3	Roseville Rd	1030	2-Year	52.73	115.87	120.81	117.48	120.82	0.000063	0.83	84.07	64.01	0.07
Tributary 3	Roseville Rd	1030	10-Year	91.45	115.87	121.19	117.88	121.21	0.000126	1.25	100.68	79.09	0.11
Tributary 3	Roseville Rd	1030	25-Year	110.11	115.87	121.29	118.03	121.32	0.000165	1.45	105.32	84.91	0.12
Tributary 3	Roseville Rd	1030	50-Year	120.56	115.87	121.29	118.10	121.33	0.000197	1.59	105.33	84.91	0.13
Tributary 3	Roseville Rd	1030	100-Year	127.64	115.87	121.30	118.15	121.33	0.000220	1.68	105.57	85.22	0.14
Tributary 3	Roseville Rd	1030	500-Year	142.47	115.87	121.41	118.26	121.45	0.000245	1.80	110.80	91.67	0.15
Tributary 3	Roseville Rd	980	2-Year	52.73	115.00	120.81	116.51	120.81	0.000035	0.61	101.97	52.02	0.05
Tributary 3	Roseville Rd	980	10-Year	91.45	115.00	121.19	117.00	121.20	0.000067	0.90	126.14	76.21	0.07
Tributary 3	Roseville Rd	980	25-Year	110.11	115.00	121.29	117.18	121.31	0.000086	1.03	134.34	81.55	0.08
Tributary 3	Roseville Rd	980	50-Year	120.56	115.00	121.29	117.28	121.31	0.000103	1.13	134.38	81.57	0.09
Tributary 3	Roseville Rd	980	100-Year	127.64	115.00	121.30	117.35	121.32	0.000115	1.19	134.84	81.86	0.10
Tributary 3	Roseville Rd	980	500-Year	142.47	115.00	121.41	117.48	121.43	0.000124	1.26	144.65	87.84	0.10
Tributary 3	Roseville Rd	948.47 Joann Circle Dr		Culvert									
Tributary 3	Roseville Rd	920	2-Year	52.73	114.10	118.75	116.05	118.80	0.000801	1.87	28.18	9.63	0.19
Tributary 3	Roseville Rd	920	10-Year	91.45	114.10	119.39	116.74	119.50	0.001281	2.61	38.95	25.07	0.25
Tributary 3	Roseville Rd	920	25-Year	110.11	114.10	119.49	117.01	119.63	0.001671	3.04	41.55	27.32	0.29
Tributary 3	Roseville Rd	920	50-Year	120.56	114.10	119.59	117.16	119.75	0.001809	3.22	44.29	29.50	0.30
Tributary 3	Roseville Rd	920	100-Year	127.64	114.10	119.61	117.25	119.78	0.001982	3.38	44.93	29.99	0.31
Tributary 3	Roseville Rd	920	500-Year	142.47	114.10	119.71	117.44	119.91	0.002229	3.65	47.98	32.21	0.33
Tributary 3	Roseville Rd	885	2-Year	52.73	115.63	118.73		118.77	0.000695	1.63	32.34	17.07	0.21
Tributary 3	Roseville Rd	885	10-Year	91.45	115.63	119.38		119.44	0.000885	2.07	44.44	23.68	0.24
Tributary 3	Roseville Rd	885	25-Year	110.11	115.63	119.47		119.56	0.001128	2.38	46.99	28.99	0.27
Tributary 3	Roseville Rd	885	50-Year	120.56	115.63	119.57		119.67	0.001192	2.50	50.06	34.31	0.28
Tributary 3	Roseville Rd	885	100-Year	127.64	115.63	119.59		119.70	0.001302	2.62	50.76	35.41	0.30
Tributary 3	Roseville Rd	885	500-Year	142.47	115.63	119.69		119.81	0.001430	2.81	54.50	40.79	0.31
Tributary 3	Roseville Rd	855	2-Year	52.73	117.20	118.48		118.70	0.007947	3.83	14.37	17.46	0.67
Tributary 3	Roseville Rd	855	10-Year	91.45	117.20	119.27		119.40	0.002527	3.15	36.36	48.51	0.41
Tributary 3	Roseville Rd	855	25-Year	110.11	117.20	119.36		119.51	0.002820	3.44	40.84	50.46	0.44
Tributary 3	Roseville Rd	855	50-Year	120.56	117.20	119.49		119.62	0.002362	3.29	47.53	53.26	0.41
Tributary 3	Roseville Rd	855	100-Year	127.64	117.20	119.50		119.64	0.002544	3.43	48.32	53.58	0.42
Tributary 3	Roseville Rd	855	500-Year	142.47	117.20	119.62		119.76	0.002294	3.38	55.11	56.25	0.40
Tributary 3	Roseville Rd	835	2-Year	52.73	115.20	118.44	117.33	118.57	0.002928	3.20	19.57	15.85	0.31
Tributary 3	Roseville Rd	835	10-Year	91.45	115.20	119.25	118.10	119.33	0.001649	2.79	49.68	63.17	0.24
Tributary 3	Roseville Rd	835	25-Year	110.11	115.20	119.35	118.30	119.43	0.001778	2.94	55.61	63.99	0.25
Tributary 3	Roseville Rd	835	50-Year	120.56	115.20	119.48	118.38	119.55	0.001432	2.69	64.30	65.16	0.23
Tributary 3	Roseville Rd	835	100-Year	127.64	115.20	119.50	118.41	119.57	0.001539	2.80	65.27	65.29	0.24
Tributary 3	Roseville Rd	835	500-Year	142.47	115.20	119.62	118.71	119.69	0.001365	2.69	73.54	66.39	0.23
Tributary 3	Roseville Rd	822.62 Footbridge		Bridge									
Tributary 3	Roseville Rd	810	2-Year	52.73	115.20	118.32		118.48	0.003640	3.48	17.52	13.42	0.35
Tributary 3	Roseville Rd	810	10-Year	91.45	115.20	118.65		118.95	0.006573	4.99	22.82	20.50	0.47
Tributary 3	Roseville Rd	810	25-Year	110.11	115.20	118.77	118.33	119.12	0.007591	5.50	25.56	23.72	0.51
Tributary 3	Roseville Rd	810	50-Year	120.56	115.20	118.82	118.40	119.31	0.010320	6.47	27.28	47.63	0.60
Tributary 3	Roseville Rd	810	100-Year	127.64	115.20	118.46	118.46	119.23	0.017259	7.80	19.42	15.61	0.76
Tributary 3	Roseville Rd	810	500-Year	142.47	115.20	118.63	118.63	119.38	0.016331	7.85	22.55	20.15	0.75
Tributary 3	Roseville Rd	805	2-Year	52.73	116.80	118.00	118.00	118.38	0.018701	4.99	10.71	15.05	0.98
Tributary 3	Roseville Rd	805	10-Year	91.45	116.80	118.38	118.38	118.85	0.014205	5.62	17.29	43.35	0.91
Tributary 3	Roseville Rd	805	25-Year	110.11	116.80	118.53	118.53	119.03	0.013173	5.86	20.37	48.76	0.89
Tributary 3	Roseville Rd	805	50-Year	120.56	116.80	118.57	118.57	119.12	0.013976	6.16	21.31	50.32	0.92
Tributary 3	Roseville Rd	805	100-Year	127.64	116.80	118.58	118.58	119.18	0.015137	6.45	21.58	50.76	0.96
Tributary 3	Roseville Rd	805	500-Year	142.47	116.80	118.91	118.91	119.28	0.007444	5.22	34.49	86.00	0.70
Tributary 3	Roseville Rd	760	2-Year	52.73	116.00	118.07		118.12	0.000793	1.72	33.31	59.62	0.23

Deadman Brook Tributaries Recommended Model

HEC-RAS Plan: Proposed (Continued)

River	Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
Tributary 3	Roseville Rd	760	10-Year	91.45	116.00	118.37		118.46	0.001289	2.44	41.75	109.26	0.30
Tributary 3	Roseville Rd	760	25-Year	110.11	116.00	118.52		118.62	0.001431	2.69	46.07	124.57	0.32
Tributary 3	Roseville Rd	760	50-Year	120.56	116.00	118.56		118.68	0.001570	2.85	47.62	128.73	0.34
Tributary 3	Roseville Rd	760	100-Year	127.64	116.00	118.60		118.72	0.001635	2.95	48.93	132.20	0.34
Tributary 3	Roseville Rd	760	500-Year	142.47	116.00	118.90		119.01	0.001277	2.83	64.88	162.43	0.31
Tributary 3	Roseville Rd	740	2-Year	52.73	116.20	118.06	117.21	118.07	0.000190	0.79	76.94	74.43	0.11
Tributary 3	Roseville Rd	740	10-Year	91.45	116.20	118.37	117.34	118.38	0.000250	1.02	100.26	77.25	0.13
Tributary 3	Roseville Rd	740	25-Year	110.11	116.20	118.51	117.40	118.53	0.000259	1.09	111.78	78.61	0.13
Tributary 3	Roseville Rd	740	50-Year	120.56	116.20	118.56	117.43	118.58	0.000278	1.15	115.82	79.08	0.14
Tributary 3	Roseville Rd	740	100-Year	127.64	116.20	118.61	117.45	118.63	0.000285	1.18	119.23	79.48	0.14
Tributary 3	Roseville Rd	740	500-Year	142.47	116.20	118.92	117.48	118.93	0.000197	1.07	144.22	82.31	0.12
Tributary 3	Roseville Rd	715	2-Year	52.73	114.60	118.04	116.36	118.05	0.000463	1.36	49.56	46.29	0.13
Tributary 3	Roseville Rd	715	10-Year	91.45	114.60	118.33	117.22	118.36	0.000721	1.79	64.35	54.45	0.16
Tributary 3	Roseville Rd	715	25-Year	110.11	114.60	118.47	117.35	118.51	0.000771	1.89	72.50	58.46	0.17
Tributary 3	Roseville Rd	715	50-Year	120.56	114.60	118.52	117.41	118.56	0.000838	1.99	75.30	59.78	0.18
Tributary 3	Roseville Rd	715	100-Year	127.64	114.60	118.56	117.45	118.61	0.000864	2.04	77.80	60.93	0.18
Tributary 3	Roseville Rd	715	500-Year	142.47	114.60	118.89	117.53	118.92	0.000577	1.75	98.92	69.91	0.15
Tributary 3	Roseville Rd	699.93	Driveway Bridge	Culvert									
Tributary 3	Roseville Rd	680	2-Year	52.73	114.50	117.18	116.25	117.38	0.007040	4.00	18.50	63.79	0.43
Tributary 3	Roseville Rd	680	10-Year	91.45	114.50	117.56		117.66	0.003658	3.15	40.70	87.34	0.32
Tributary 3	Roseville Rd	680	25-Year	110.11	114.50	117.70		117.79	0.003044	2.96	50.17	96.00	0.29
Tributary 3	Roseville Rd	680	50-Year	120.56	114.50	117.78		117.86	0.002809	2.89	55.26	100.41	0.28
Tributary 3	Roseville Rd	680	100-Year	127.64	114.50	117.95		118.01	0.001762	2.37	68.27	111.03	0.22
Tributary 3	Roseville Rd	680	500-Year	142.47	114.50	118.83		118.84	0.000158	0.83	195.60	154.31	0.07
Tributary 3	Roseville Rd	640	2-Year	52.73	115.60	117.18		117.21	0.001006	1.56	69.65	111.39	0.25
Tributary 3	Roseville Rd	640	10-Year	91.45	115.60	117.52		117.56	0.001027	1.85	108.81	116.36	0.26
Tributary 3	Roseville Rd	640	25-Year	110.11	115.60	117.66		117.70	0.001038	1.97	125.06	118.36	0.26
Tributary 3	Roseville Rd	640	50-Year	120.56	115.60	117.73		117.77	0.001048	2.03	133.52	119.38	0.27
Tributary 3	Roseville Rd	640	100-Year	127.64	115.60	117.92		117.95	0.000778	1.87	155.82	122.05	0.23
Tributary 3	Roseville Rd	640	500-Year	142.47	115.60	118.82		118.83	0.000211	1.25	276.52	143.84	0.13
Tributary 3	Roseville Rd	590	2-Year	52.73	115.80	116.77	116.77	117.05	0.021782	4.25	12.42	22.12	1.00
Tributary 3	Roseville Rd	590	10-Year	91.45	115.80	117.04	117.04	117.40	0.019806	4.78	19.21	29.86	0.99
Tributary 3	Roseville Rd	590	25-Year	110.11	115.80	117.14	117.14	117.54	0.018409	5.03	22.62	37.46	0.98
Tributary 3	Roseville Rd	590	50-Year	120.56	115.80	117.20	117.20	117.61	0.017407	5.12	24.96	41.76	0.96
Tributary 3	Roseville Rd	590	100-Year	127.64	115.80	117.72	117.24	117.87	0.003776	3.24	51.18	57.88	0.48
Tributary 3	Roseville Rd	590	500-Year	142.47	115.80	118.78	117.32	118.81	0.000494	1.71	164.54	135.28	0.19
Tributary 3	Roseville Rd	550	2-Year	52.73	111.00	114.38	112.76	114.47	0.001845	2.44	21.63	9.93	0.29
Tributary 3	Roseville Rd	550	10-Year	91.45	111.00	115.78	113.37	115.88	0.001215	2.58	35.45	13.95	0.24
Tributary 3	Roseville Rd	550	25-Year	110.11	111.00	116.63	113.61	116.73	0.000930	2.51	43.87	16.29	0.21
Tributary 3	Roseville Rd	550	50-Year	120.56	111.00	117.25	113.74	117.34	0.000761	2.41	49.93	20.41	0.19
Tributary 3	Roseville Rd	550	100-Year	127.64	111.00	117.70	113.82	117.78	0.000641	2.34	57.45	41.86	0.18
Tributary 3	Roseville Rd	550	500-Year	142.47	111.00	118.74	113.99	118.79	0.000364	1.98	122.93	107.59	0.14
Tributary 3	Roseville Rd	497.46	Roseville Rd	Culvert									
Tributary 3	Roseville Rd	430	2-Year	52.73	110.90	113.55	112.19	113.63	0.001652	2.29	26.11	21.63	0.26
Tributary 3	Roseville Rd	430	10-Year	91.45	110.90	114.02	112.64	114.18	0.002583	3.24	33.76	26.40	0.34
Tributary 3	Roseville Rd	430	25-Year	110.11	110.90	114.20	112.84	114.39	0.002996	3.63	36.91	28.22	0.37
Tributary 3	Roseville Rd	430	50-Year	120.56	110.90	114.29	112.94	114.51	0.003220	3.84	38.57	29.14	0.39
Tributary 3	Roseville Rd	430	100-Year	127.64	110.90	114.35	113.01	114.58	0.003366	3.98	39.67	29.75	0.40
Tributary 3	Roseville Rd	430	500-Year	142.47	110.90	114.47	113.15	114.73	0.003674	4.26	41.86	30.92	0.42
Tributary 3	Roseville Rd	380	2-Year	52.73	112.00	112.98	112.98	113.33	0.032108	4.70	11.41	18.00	0.98
Tributary 3	Roseville Rd	380	10-Year	91.45	112.00	113.30	113.30	113.77	0.027483	5.56	17.73	21.82	0.96
Tributary 3	Roseville Rd	380	25-Year	110.11	112.00	113.44	113.44	113.96	0.025829	5.86	20.83	23.46	0.96
Tributary 3	Roseville Rd	380	50-Year	120.56	112.00	113.51	113.51	114.05	0.025096	6.01	22.55	24.32	0.95
Tributary 3	Roseville Rd	380	100-Year	127.64	112.00	113.56	113.56	114.12	0.024718	6.11	23.69	24.88	0.95
Tributary 3	Roseville Rd	380	500-Year	142.47	112.00	113.65	113.65	114.25	0.024068	6.32	26.06	26.00	0.95
Tributary 3	Roseville Rd	195	2-Year	52.73	110.60	112.89		112.89	0.000235	0.70	81.63	63.02	0.10
Tributary 3	Roseville Rd	195	10-Year	91.45	110.60	113.17		113.19	0.000401	1.02	100.40	66.57	0.13
Tributary 3	Roseville Rd	195	25-Year	110.11	110.60	113.29		113.31	0.000474	1.15	108.12	67.42	0.14
Tributary 3	Roseville Rd	195	50-Year	120.56	110.60	113.35		113.37	0.000510	1.22	112.37	67.88	0.15
Tributary 3	Roseville Rd	195	100-Year	127.64	110.60	113.39		113.42	0.000534	1.26	115.11	68.17	0.15
Tributary 3	Roseville Rd	195	500-Year	142.47	110.60	113.47		113.50	0.000585	1.36	120.57	68.75	0.16
Tributary 3	Roseville Rd	145	2-Year	52.73	108.00	112.88	111.16	112.88	0.000225	0.60	138.59	77.25	0.05
Tributary 3	Roseville Rd	145	10-Year	91.45	108.00	113.16	111.49	113.16	0.000407	0.84	175.60	78.92	0.06
Tributary 3	Roseville Rd	145	25-Year	110.11	108.00	113.27	111.61	113.28	0.000508	0.95	184.48	79.46	0.07
Tributary 3	Roseville Rd	145	50-Year	120.56	108.00	113.33	111.67	113.34	0.000562	1.00	189.38	79.75	0.08
Tributary 3	Roseville Rd	145	100-Year	127.64	108.00	113.37	111.71	113.38	0.000599	1.04	192.52	79.94	0.08
Tributary 3	Roseville Rd	145	500-Year	142.47	108.00	113.45	111.78	113.46	0.000677	1.12	198.74	80.31	0.08
Tributary 3	Roseville Rd	127.47	Stone Dam	Bridge									
Tributary 3	Roseville Rd	110	2-Year	52.73	104.00	107.42	107.42	107.97	0.030253	7.05	13.37	13.11	0.67
Tributary 3	Roseville Rd	110	10-Year	91.45	104.00	107.99	107.99	108.59	0.033071	8.17	22.16	17.77	0.72
Tributary 3	Roseville Rd	110	25-Year	110.11	104.00	108.18	108.18	108.81	0.034619	8.62	25.70	19.41	0.74
Tributary 3	Roseville Rd	110	50-Year	120.56	104.00	108.27	108.27	108.93	0.035665	8.88	27.52	20.21	0.76
Tributary 3	Roseville Rd	110	100-Year	127.64	104.00	108.35	108.35	109.00	0.035055	8.91	29.19	20.92	0.75
Tributary 3	Roseville Rd	110	500-Year	142.47	104.00	108.47	108.47	109.14	0.036063	9.20	31.78	21.98	0.77

Deadman Brook Tributaries Recommended Model

HEC-RAS Plan: Proposed (Continued)

River	Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
Tributary 3	Roseville Rd	60	2-Year	52.73	101.40	102.14	102.14	102.42	0.021744	4.23	12.55	23.65	1.00
Tributary 3	Roseville Rd	60	10-Year	91.45	101.40	102.39	102.39	102.78	0.019021	5.05	18.67	25.83	0.99
Tributary 3	Roseville Rd	60	25-Year	110.11	101.40	102.49	102.49	102.94	0.018281	5.37	21.41	26.75	0.99
Tributary 3	Roseville Rd	60	50-Year	120.56	101.40	102.55	102.55	103.02	0.017864	5.53	22.93	27.24	0.99
Tributary 3	Roseville Rd	60	100-Year	127.64	101.40	102.59	102.59	103.08	0.017472	5.62	24.02	27.59	0.99
Tributary 3	Roseville Rd	60	500-Year	142.47	101.40	103.28		103.48	0.003650	3.63	44.90	32.58	0.49
Tributary 2	Deerwood Ln	250	2-Year	15.58	93.61	95.10	94.54	95.17	0.003831	2.11	7.66	7.69	0.36
Tributary 2	Deerwood Ln	250	10-Year	39.45	93.61	95.48	95.03	95.71	0.008636	3.88	11.68	14.85	0.57
Tributary 2	Deerwood Ln	250	25-Year	56.27	93.61	95.67	95.33	96.01	0.011298	4.81	14.82	19.27	0.66
Tributary 2	Deerwood Ln	250	50-Year	69.40	93.61	95.76	95.58	96.21	0.013927	5.53	16.68	21.48	0.74
Tributary 2	Deerwood Ln	250	100-Year	83.00	93.61	95.89	95.79	96.40	0.014927	6.01	19.67	24.60	0.78
Tributary 2	Deerwood Ln	250	500-Year	119.79	93.61	96.21	96.21	96.84	0.015819	6.88	28.93	32.71	0.82
Tributary 2	Deerwood Ln	200	2-Year	15.58	94.00	94.54	94.54	94.70	0.044418	3.16	4.93	35.18	1.00
Tributary 2	Deerwood Ln	200	10-Year	39.45	94.00	94.80	94.80	94.97	0.028489	3.56	16.24	54.36	0.88
Tributary 2	Deerwood Ln	200	25-Year	56.27	94.00	94.90	94.90	95.10	0.029731	4.01	21.47	56.34	0.92
Tributary 2	Deerwood Ln	200	50-Year	69.40	94.00	94.98	94.98	95.19	0.027025	4.12	26.31	58.12	0.89
Tributary 2	Deerwood Ln	200	100-Year	83.00	94.00	95.02	95.02	95.27	0.031590	4.59	28.39	58.82	0.97
Tributary 2	Deerwood Ln	200	500-Year	119.79	94.00	95.16	95.16	95.47	0.031809	5.22	36.95	61.44	1.00
Tributary 2	Deerwood Ln	50	2-Year	15.58	87.40	88.63		88.63	0.000071	0.31	51.23	46.17	0.05
Tributary 2	Deerwood Ln	50	10-Year	39.45	87.40	89.62		89.63	0.000056	0.41	99.86	50.55	0.05
Tributary 2	Deerwood Ln	50	25-Year	56.27	87.40	90.15		90.15	0.000055	0.47	126.85	53.16	0.05
Tributary 2	Deerwood Ln	50	50-Year	69.40	87.40	90.61		90.61	0.000049	0.50	152.33	57.29	0.05
Tributary 2	Deerwood Ln	50	100-Year	83.00	87.40	91.03		91.04	0.000045	0.52	177.38	61.26	0.05
Tributary 2	Deerwood Ln	50	500-Year	119.79	87.40	92.02		92.02	0.000041	0.58	245.26	76.87	0.05
Tributary 1	N Compo Rd	1920	2-Year	7.00	85.20	85.62		85.65	0.005690	1.40	5.00	17.26	0.46
Tributary 1	N Compo Rd	1920	10-Year	25.27	85.20	86.03		86.08	0.003574	1.86	13.94	26.76	0.41
Tributary 1	N Compo Rd	1920	25-Year	49.43	85.20	86.33		86.41	0.003180	2.28	24.16	41.45	0.42
Tributary 1	N Compo Rd	1920	50-Year	69.11	85.20	86.52		86.60	0.002882	2.45	32.78	50.62	0.41
Tributary 1	N Compo Rd	1920	100-Year	91.04	85.20	86.69		86.78	0.002629	2.58	42.35	59.17	0.40
Tributary 1	N Compo Rd	1920	500-Year	180.97	85.20	87.22		87.30	0.001787	2.67	86.80	115.41	0.35
Tributary 1	N Compo Rd	1870	2-Year	7.00	84.80	85.43		85.46	0.002928	1.27	5.54	14.31	0.35
Tributary 1	N Compo Rd	1870	10-Year	25.27	84.80	85.89		85.94	0.002405	1.89	14.99	26.66	0.36
Tributary 1	N Compo Rd	1870	25-Year	49.43	84.80	86.19		86.27	0.002641	2.41	24.06	34.40	0.39
Tributary 1	N Compo Rd	1870	50-Year	69.11	84.80	86.37		86.47	0.002682	2.68	30.87	39.26	0.41
Tributary 1	N Compo Rd	1870	100-Year	91.04	84.80	86.54		86.65	0.002714	2.91	37.90	43.72	0.42
Tributary 1	N Compo Rd	1870	500-Year	180.97	84.80	87.04		87.18	0.002860	3.60	62.56	56.20	0.45
Tributary 1	N Compo Rd	1715	2-Year	7.00	84.00	84.57	84.48	84.65	0.011945	2.21	3.16	9.53	0.68
Tributary 1	N Compo Rd	1715	10-Year	25.27	84.00	84.86	84.86	85.12	0.019039	4.16	6.48	14.92	0.94
Tributary 1	N Compo Rd	1715	25-Year	49.43	84.00	85.19	85.19	85.48	0.012982	4.59	13.37	26.16	0.84
Tributary 1	N Compo Rd	1715	50-Year	69.11	84.00	85.36	85.36	85.68	0.011994	4.95	18.36	31.46	0.83
Tributary 1	N Compo Rd	1715	100-Year	91.04	84.00	85.51	85.51	85.86	0.011726	5.32	23.36	36.00	0.84
Tributary 1	N Compo Rd	1715	500-Year	180.97	84.00	85.96	85.96	86.40	0.010715	6.24	42.79	49.85	0.84
Tributary 1	N Compo Rd	1530	2-Year	7.00	80.80	81.22	81.22	81.38	0.026594	3.26	2.15	6.53	1.00
Tributary 1	N Compo Rd	1530	10-Year	25.27	80.80	82.42		82.45	0.000817	1.42	19.71	22.75	0.22
Tributary 1	N Compo Rd	1530	25-Year	49.43	80.80	82.75		82.80	0.001242	2.04	27.90	27.57	0.28
Tributary 1	N Compo Rd	1530	50-Year	69.11	80.80	82.89		82.97	0.001701	2.52	31.92	29.65	0.34
Tributary 1	N Compo Rd	1530	100-Year	91.04	80.80	83.01		83.14	0.002298	3.07	35.79	36.50	0.39
Tributary 1	N Compo Rd	1530	500-Year	180.97	80.80	83.34		83.60	0.004181	4.60	48.53	41.63	0.55
Tributary 1	N Compo Rd	1475	2-Year	7.00	78.50	79.86	79.22	79.96	0.007629	2.57	2.72	2.00	0.39
Tributary 1	N Compo Rd	1475	10-Year	25.27	78.50	82.38	80.20	82.41	0.000686	1.07	19.89	37.29	0.10
Tributary 1	N Compo Rd	1475	25-Year	49.43	78.50	82.72	81.67	82.73	0.000786	1.21	48.41	71.79	0.10
Tributary 1	N Compo Rd	1475	50-Year	69.11	78.50	82.86	81.82	82.88	0.000829	1.27	58.91	75.25	0.11
Tributary 1	N Compo Rd	1475	100-Year	91.04	78.50	82.99	81.99	83.02	0.000874	1.33	68.99	78.38	0.11
Tributary 1	N Compo Rd	1475	500-Year	180.97	78.50	83.34	82.65	83.39	0.001151	1.61	98.06	89.03	0.13
Tributary 1	N Compo Rd	1450.16 Driveway Bridge		Culvert									
Tributary 1	N Compo Rd	1430	2-Year	7.00	78.40	79.19	79.12	79.49	0.032476	4.43	1.58	2.00	0.88
Tributary 1	N Compo Rd	1430	10-Year	25.27	78.40	80.15	80.15	80.50	0.022242	5.02	5.43	10.04	0.67
Tributary 1	N Compo Rd	1430	25-Year	49.43	78.40	80.50	80.50	80.89	0.020988	5.27	9.87	12.25	0.64
Tributary 1	N Compo Rd	1430	50-Year	69.11	78.40	80.71	80.71	81.18	0.020426	5.40	12.64	13.60	0.63
Tributary 1	N Compo Rd	1430	100-Year	91.04	78.40	80.92	80.92	81.45	0.019578	5.46	15.58	14.90	0.61
Tributary 1	N Compo Rd	1430	500-Year	180.97	78.40	81.84	81.84	82.09	0.012533	5.33	48.03	83.51	0.51
Tributary 1	N Compo Rd	1360	2-Year	7.00	76.80	77.35	77.35	77.51	0.026650	3.21	2.18	6.83	1.00
Tributary 1	N Compo Rd	1360	10-Year	25.27	76.80	77.79	77.79	78.03	0.014481	4.11	6.92	15.88	0.85
Tributary 1	N Compo Rd	1360	25-Year	49.43	76.80	78.09	78.09	78.37	0.012234	4.74	12.79	23.57	0.82
Tributary 1	N Compo Rd	1360	50-Year	69.11	76.80	78.26	78.26	78.57	0.011428	5.07	17.16	27.90	0.82
Tributary 1	N Compo Rd	1360	100-Year	91.04	76.80	78.40	78.40	78.74	0.011476	5.47	21.29	31.45	0.83
Tributary 1	N Compo Rd	1360	500-Year	180.97	76.80	78.83	78.83	79.26	0.010722	6.37	37.35	42.52	0.84
Tributary 1	N Compo Rd	1320	2-Year	7.00	74.00	74.63	74.31	74.66	0.002633	1.46	4.81	8.29	0.34
Tributary 1	N Compo Rd	1320	10-Year	25.27	74.00	75.21	74.71	75.31	0.003813	2.54	9.96	9.48	0.44
Tributary 1	N Compo Rd	1320	25-Year	49.43	74.00	75.66	75.09	75.84	0.004975	3.43	14.41	10.40	0.51
Tributary 1	N Compo Rd	1320	50-Year	69.11	74.00	75.97	75.34	76.20	0.005364	3.90	17.73	11.03	0.54
Tributary 1	N Compo Rd	1320	100-Year	91.04	74.00	76.59	75.59	76.74	0.002486	3.29	32.12	30.10	0.39
Tributary 1	N Compo Rd	1320	500-Year	180.97	74.00	77.67	76.61	77.78	0.001225	3.01	74.39	44.53	0.29
Tributary 1	N Compo Rd	1310.5 Footbridge		Bridge									

Deadman Brook Tributaries Recommended Model

HEC-RAS Plan: Proposed (Continued)

River	Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
Tributary 1	N Compo Rd	1300	2-Year	7.00	74.00	74.52		74.57	0.004884	1.78	3.94	8.05	0.45
Tributary 1	N Compo Rd	1300	10-Year	25.27	74.00	75.04		75.18	0.006461	3.03	8.33	9.07	0.56
Tributary 1	N Compo Rd	1300	25-Year	49.43	74.00	75.34		75.65	0.010254	4.41	11.21	9.69	0.72
Tributary 1	N Compo Rd	1300	50-Year	69.11	74.00	75.51		75.96	0.013404	5.37	12.87	10.02	0.83
Tributary 1	N Compo Rd	1300	100-Year	91.04	74.00	75.68	75.60	76.28	0.016345	6.26	14.54	10.35	0.93
Tributary 1	N Compo Rd	1300	500-Year	180.97	74.00	76.59	76.59	77.22	0.010224	6.66	30.94	26.74	0.79
Tributary 1	N Compo Rd	1250	2-Year	7.00	73.60	74.03	74.00	74.13	0.019870	2.60	2.70	9.37	0.85
Tributary 1	N Compo Rd	1250	10-Year	25.27	73.60	74.35	74.35	74.62	0.021767	4.18	6.15	12.45	0.99
Tributary 1	N Compo Rd	1250	25-Year	49.43	73.60	74.71	74.71	75.05	0.014393	4.76	12.63	28.27	0.88
Tributary 1	N Compo Rd	1250	50-Year	69.11	73.60	74.91	74.91	75.28	0.013023	5.16	18.66	32.44	0.86
Tributary 1	N Compo Rd	1250	100-Year	91.04	73.60	75.08	75.08	75.50	0.012532	5.58	24.52	35.04	0.87
Tributary 1	N Compo Rd	1250	500-Year	180.97	73.60	75.58	75.58	76.17	0.012591	6.98	43.90	41.68	0.92
Tributary 1	N Compo Rd	1110	2-Year	7.00	70.40	70.70	70.70	70.81	0.029902	2.60	2.69	12.78	1.00
Tributary 1	N Compo Rd	1110	10-Year	25.27	70.40	70.99	70.99	71.17	0.025517	3.42	7.38	20.51	1.01
Tributary 1	N Compo Rd	1110	25-Year	49.43	70.40	71.20	71.20	71.45	0.019200	4.04	14.11	37.55	0.94
Tributary 1	N Compo Rd	1110	50-Year	69.11	70.40	71.34	71.34	71.63	0.017396	4.44	19.74	45.05	0.93
Tributary 1	N Compo Rd	1110	100-Year	91.04	70.40	71.47	71.47	71.80	0.016301	4.80	25.95	50.67	0.93
Tributary 1	N Compo Rd	1110	500-Year	180.97	70.40	71.89	71.89	72.34	0.014038	5.84	52.17	77.75	0.92
Tributary 1	N Compo Rd	1065	2-Year	7.00	66.93	67.67	67.53	67.77	0.010662	2.60	2.69	5.49	0.66
Tributary 1	N Compo Rd	1065	10-Year	25.27	66.93	69.61	68.06	69.64	0.000458	1.28	26.50	34.95	0.16
Tributary 1	N Compo Rd	1065	25-Year	49.43	66.93	69.96	68.52	70.02	0.000877	1.98	40.04	43.80	0.23
Tributary 1	N Compo Rd	1065	50-Year	69.11	66.93	70.07	68.81	70.16	0.001410	2.59	44.92	47.64	0.30
Tributary 1	N Compo Rd	1065	100-Year	91.04	66.93	70.15	69.09	70.29	0.002103	3.24	49.09	50.89	0.36
Tributary 1	N Compo Rd	1065	500-Year	180.97	66.93	70.21	69.95	70.72	0.007470	6.20	52.23	53.21	0.69
Tributary 1	N Compo Rd	1040.94 Driveway Bridge	Culvert										
Tributary 1	N Compo Rd	1025	2-Year	7.00	65.25	65.87	65.87	66.03	0.027218	3.16	2.21	7.17	1.00
Tributary 1	N Compo Rd	1025	10-Year	25.27	65.25	66.29	66.29	66.59	0.022463	4.37	5.78	9.68	1.00
Tributary 1	N Compo Rd	1025	25-Year	49.43	65.25	66.63	66.63	67.07	0.020197	5.28	9.36	11.63	0.99
Tributary 1	N Compo Rd	1025	50-Year	69.11	65.25	66.85	66.85	67.39	0.019333	5.91	11.69	12.85	1.00
Tributary 1	N Compo Rd	1025	100-Year	91.04	65.25	67.07	67.07	67.72	0.018470	6.46	14.09	14.11	1.00
Tributary 1	N Compo Rd	1025	500-Year	180.97	65.25	68.24	68.24	68.52	0.005054	4.64	53.27	93.93	0.56
Tributary 1	N Compo Rd	990	2-Year	7.00	64.20	64.98	64.62	65.04	0.004198	1.97	3.59	5.43	0.39
Tributary 1	N Compo Rd	990	10-Year	25.27	64.20	65.68	65.25	65.82	0.004525	3.14	9.08	17.36	0.45
Tributary 1	N Compo Rd	990	25-Year	49.43	64.20	66.65	65.74	66.72	0.001462	2.49	24.85	51.49	0.28
Tributary 1	N Compo Rd	990	50-Year	69.11	64.20	66.85	66.01	66.94	0.001757	2.88	29.43	53.43	0.31
Tributary 1	N Compo Rd	990	100-Year	91.04	64.20	67.06	66.41	67.18	0.001951	3.19	34.27	55.98	0.33
Tributary 1	N Compo Rd	990	500-Year	180.97	64.20	67.90	66.89	67.94	0.000469	1.86	121.54	72.18	0.17
Tributary 1	N Compo Rd	977.31 Footbridge	Bridge										
Tributary 1	N Compo Rd	955	2-Year	7.00	64.20	64.57	64.56	64.69	0.028232	2.80	2.50	9.91	0.98
Tributary 1	N Compo Rd	955	10-Year	25.27	64.20	64.90	64.90	65.08	0.019917	3.43	7.67	29.64	0.91
Tributary 1	N Compo Rd	955	25-Year	49.43	64.20	65.11	65.11	65.37	0.017902	4.21	12.30	32.27	0.92
Tributary 1	N Compo Rd	955	50-Year	69.11	64.20	65.25	65.25	65.57	0.017205	4.68	15.40	33.33	0.93
Tributary 1	N Compo Rd	955	100-Year	91.04	64.20	65.38	65.38	65.76	0.016838	5.13	18.44	34.35	0.95
Tributary 1	N Compo Rd	955	500-Year	180.97	64.20	65.66	65.66	66.12	0.014825	5.76	33.76	36.56	0.93
Tributary 1	N Compo Rd	910	2-Year	7.00	62.80	63.21	63.21	63.35	0.028456	2.97	2.36	8.75	1.01
Tributary 1	N Compo Rd	910	10-Year	25.27	62.80	63.83		63.94	0.005296	2.68	10.20	18.62	0.52
Tributary 1	N Compo Rd	910	25-Year	49.43	62.80	64.14		64.29	0.005275	3.31	17.56	27.62	0.55
Tributary 1	N Compo Rd	910	50-Year	69.11	62.80	64.19	64.11	64.43	0.008418	4.31	18.99	28.56	0.70
Tributary 1	N Compo Rd	910	100-Year	91.04	62.80	64.31	64.26	64.61	0.009317	4.84	22.56	30.76	0.75
Tributary 1	N Compo Rd	910	500-Year	180.97	62.80	64.69	64.69	65.16	0.011125	6.27	35.43	37.65	0.85
Tributary 1	N Compo Rd	830	2-Year	7.00	60.40	61.47	60.91	61.48	0.000819	0.95	7.37	11.03	0.20
Tributary 1	N Compo Rd	830	10-Year	25.27	60.40	63.87	61.31	63.87	0.000053	0.65	39.16	95.70	0.07
Tributary 1	N Compo Rd	830	25-Year	49.43	60.40	64.20	61.69	64.21	0.000032	0.49	138.48	106.28	0.05
Tributary 1	N Compo Rd	830	50-Year	69.11	60.40	64.30	61.90	64.30	0.000051	0.63	148.64	110.02	0.06
Tributary 1	N Compo Rd	830	100-Year	91.04	60.40	64.44	62.10	64.45	0.000067	0.75	164.86	115.74	0.07
Tributary 1	N Compo Rd	830	500-Year	180.97	60.40	64.71	62.75	64.73	0.000164	1.23	197.75	126.58	0.11
Tributary 1	N Compo Rd	810.5 Compo Rd North	Culvert										
Tributary 1	N Compo Rd	790	2-Year	7.00	58.92	60.03	59.97	60.26	0.021312	3.85	1.93	8.46	0.83
Tributary 1	N Compo Rd	790	10-Year	25.27	58.92	60.73	60.73	61.33	0.028331	6.39	4.40	31.78	0.98
Tributary 1	N Compo Rd	790	25-Year	49.43	58.92	61.10	61.10	61.23	0.009892	4.21	28.72	34.48	0.58
Tributary 1	N Compo Rd	790	50-Year	69.11	58.92	61.10	61.10	61.35	0.019339	5.89	28.72	34.48	0.81
Tributary 1	N Compo Rd	790	100-Year	91.04	58.92	61.35	61.18	61.56	0.016059	5.70	37.56	35.41	0.73
Tributary 1	N Compo Rd	790	500-Year	180.97	58.92	62.29	61.59	62.44	0.009719	5.21	72.33	38.84	0.56
Tributary 1	N Compo Rd	735	2-Year	7.00	58.40	58.82	58.82	58.97	0.027131	3.14	2.23	7.29	1.00
Tributary 1	N Compo Rd	735	10-Year	25.27	58.40	59.22	59.22	59.52	0.020907	4.46	5.88	11.13	0.99
Tributary 1	N Compo Rd	735	25-Year	49.43	58.40	59.57	59.57	60.02	0.017105	5.44	10.45	14.61	0.97
Tributary 1	N Compo Rd	735	50-Year	69.11	58.40	59.81	59.81	60.34	0.015538	5.99	14.22	16.95	0.96
Tributary 1	N Compo Rd	735	100-Year	91.04	58.40	60.05	60.05	60.65	0.014125	6.44	18.59	19.09	0.94
Tributary 1	N Compo Rd	735	500-Year	180.97	58.40	60.78	60.78	61.65	0.012736	8.00	33.87	23.06	0.95
Tributary 1	N Compo Rd	550	2-Year	7.00	46.00	46.53	46.53	46.68	0.028115	3.16	2.21	7.32	1.01
Tributary 1	N Compo Rd	550	10-Year	25.27	46.00	46.93	46.93	47.25	0.021734	4.50	5.69	10.21	1.00
Tributary 1	N Compo Rd	550	25-Year	49.43	46.00	47.30	47.30	47.75	0.016760	5.40	10.45	15.57	0.95
Tributary 1	N Compo Rd	550	50-Year	69.11	46.00	47.55	47.55	48.06	0.014826	5.88	14.76	19.41	0.93

Deadman Brook Tributaries Recommended Model

HEC-RAS Plan: Proposed (Continued)

River	Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
Tributary 1	N Compo Rd	550	100-Year	91.04	46.00	47.78	47.78	48.35	0.013619	6.31	19.70	23.04	0.91
Tributary 1	N Compo Rd	550	500-Year	180.97	46.00	48.47	48.47	49.22	0.011977	7.63	38.31	29.73	0.91
Tributary 1	N Compo Rd	500	2-Year	7.00	43.40	44.50	43.86	44.54	0.002235	1.60	4.39	4.00	0.27
Tributary 1	N Compo Rd	500	10-Year	25.27	43.40	45.43	44.48	45.52	0.002606	2.54	18.03	27.65	0.31
Tributary 1	N Compo Rd	500	25-Year	49.43	43.40	45.69	45.32	45.87	0.005214	3.90	25.85	32.50	0.45
Tributary 1	N Compo Rd	500	50-Year	69.11	43.40	45.82	45.59	46.08	0.007549	4.86	30.17	34.89	0.55
Tributary 1	N Compo Rd	500	100-Year	91.04	43.40	45.99	45.81	46.30	0.009044	5.56	36.24	37.99	0.61
Tributary 1	N Compo Rd	500	500-Year	180.97	43.40	46.59	46.39	47.00	0.010757	6.98	61.71	46.07	0.69
Tributary 1	N Compo Rd	487.49 Footbridge	Bridge										
Tributary 1	N Compo Rd	475	2-Year	7.00	43.40	44.16		44.19	0.002130	1.42	4.94	6.50	0.29
Tributary 1	N Compo Rd	475	10-Year	25.27	43.40	44.54		44.72	0.008025	3.40	7.43	6.50	0.56
Tributary 1	N Compo Rd	475	25-Year	49.43	43.40	44.76	44.76	45.21	0.016381	5.42	11.41	24.29	0.82
Tributary 1	N Compo Rd	475	50-Year	69.11	43.40	45.07	45.07	45.49	0.013084	5.55	20.56	34.81	0.76
Tributary 1	N Compo Rd	475	100-Year	91.04	43.40	45.28	45.28	45.72	0.012953	5.96	28.28	40.01	0.77
Tributary 1	N Compo Rd	475	500-Year	180.97	43.40	45.84	45.84	46.39	0.013710	7.31	54.71	54.16	0.82
Tributary 1	N Compo Rd	425	2-Year	7.00	43.40	43.77	43.77	43.91	0.028346	2.93	2.39	20.70	1.01
Tributary 1	N Compo Rd	425	10-Year	25.27	43.40	44.13	44.13	44.24	0.010587	2.84	9.92	43.14	0.69
Tributary 1	N Compo Rd	425	25-Year	49.43	43.40	44.25	44.25	44.41	0.010683	3.28	15.54	48.13	0.72
Tributary 1	N Compo Rd	425	50-Year	69.11	43.40	44.33	44.33	44.54	0.010440	3.49	19.30	49.66	0.72
Tributary 1	N Compo Rd	425	100-Year	91.04	43.40	44.41	44.41	44.66	0.009938	3.65	23.27	51.21	0.72
Tributary 1	N Compo Rd	425	500-Year	180.97	43.40	44.70	44.70	45.08	0.007251	3.83	38.96	55.86	0.64
Tributary 1	N Compo Rd	230	2-Year	7.00	31.20	31.39	31.39	31.47	0.034025	2.16	3.25	22.45	1.00
Tributary 1	N Compo Rd	230	10-Year	25.27	31.20	31.59	31.59	31.74	0.026872	3.17	7.96	25.82	1.01
Tributary 1	N Compo Rd	230	25-Year	49.43	31.20	31.77	31.77	32.00	0.023346	3.82	12.95	28.66	1.00
Tributary 1	N Compo Rd	230	50-Year	69.11	31.20	31.88	31.88	32.17	0.022042	4.26	16.26	30.19	1.01
Tributary 1	N Compo Rd	230	100-Year	91.04	31.20	32.00	32.00	32.33	0.020501	4.65	19.79	31.68	1.00
Tributary 1	N Compo Rd	230	500-Year	180.97	31.20	32.38	32.38	32.91	0.017494	5.82	33.07	37.97	1.00
Tributary 1	N Compo Rd	165	2-Year	7.00	27.60	27.99	27.99	28.14	0.027199	3.10	2.26	7.58	1.00
Tributary 1	N Compo Rd	165	10-Year	25.27	27.60	28.37	28.37	28.66	0.021436	4.34	5.99	11.96	0.99
Tributary 1	N Compo Rd	165	25-Year	49.43	27.60	28.72	28.72	29.13	0.016583	5.20	11.31	18.78	0.94
Tributary 1	N Compo Rd	165	50-Year	69.11	27.60	28.95	28.95	29.42	0.014965	5.70	16.03	23.30	0.93
Tributary 1	N Compo Rd	165	100-Year	91.04	27.60	30.55		30.61	0.000764	2.29	90.83	65.29	0.24
Tributary 1	N Compo Rd	165	500-Year	180.97	27.60	31.48		31.56	0.000843	2.92	158.60	82.88	0.27

Appendix F – Inundation Maps

- 2-Year Inundation Maps
- 10-Year Inundation Maps
- 25-Year Inundation Maps
- 50-Year Inundation Maps
- 100-Year Inundation Maps
- 500-Year Inundation Maps



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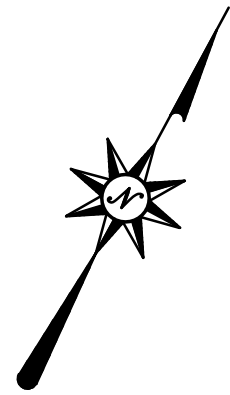
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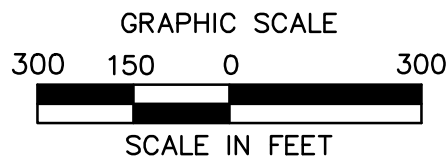
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Checked D.M.C.		
Approved		
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Project No. 16C6016		
Date MARCH 2018		
CAD File: BD16C6016-01		
Title		
2-YEAR		
RECOMMENDED VS		
EXISTING CONDITIONS		
INUNDATION LIMITS		
Sheet No.		

FIGURE-23



--- EXISTING CONDITIONS 2-YEAR
INUNDATION LIMIT
- - - PROPOSED CONDITIONS 2-YEAR
INUNDATION LIMIT

SEE SHEET FIGURE-23



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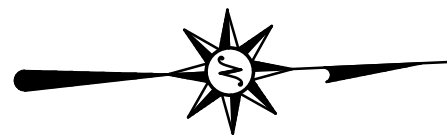
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Title
2-YEAR
RECOMMENDED VS
EXISTING CONDITIONS
INUNDATION LIMITS

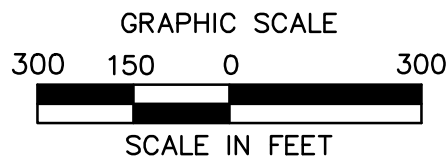
Sheet No.
FIGURE-24



--- EXISTING CONDITIONS 2-YEAR
INUNDATION LIMIT

- - - PROPOSED CONDITIONS 2-YEAR
INUNDATION LIMIT

SEE SHEET FIGURE-24



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Project No.	16C6016
Date	MARCH 2018

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Title
2-YEAR
RECOMMENDED VS
EXISTING CONDITIONS
INUNDATION LIMITS

Sheet No.

FIGURE-25



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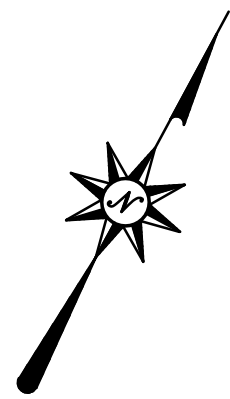
Title
10-YEAR
RECOMMENDED VS
EXISTING CONDITIONS
INUNDATION LIMITS

Sheet No.
FIGURE-26

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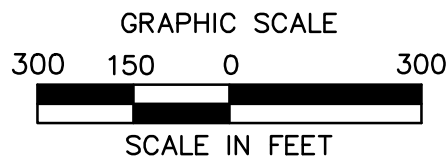
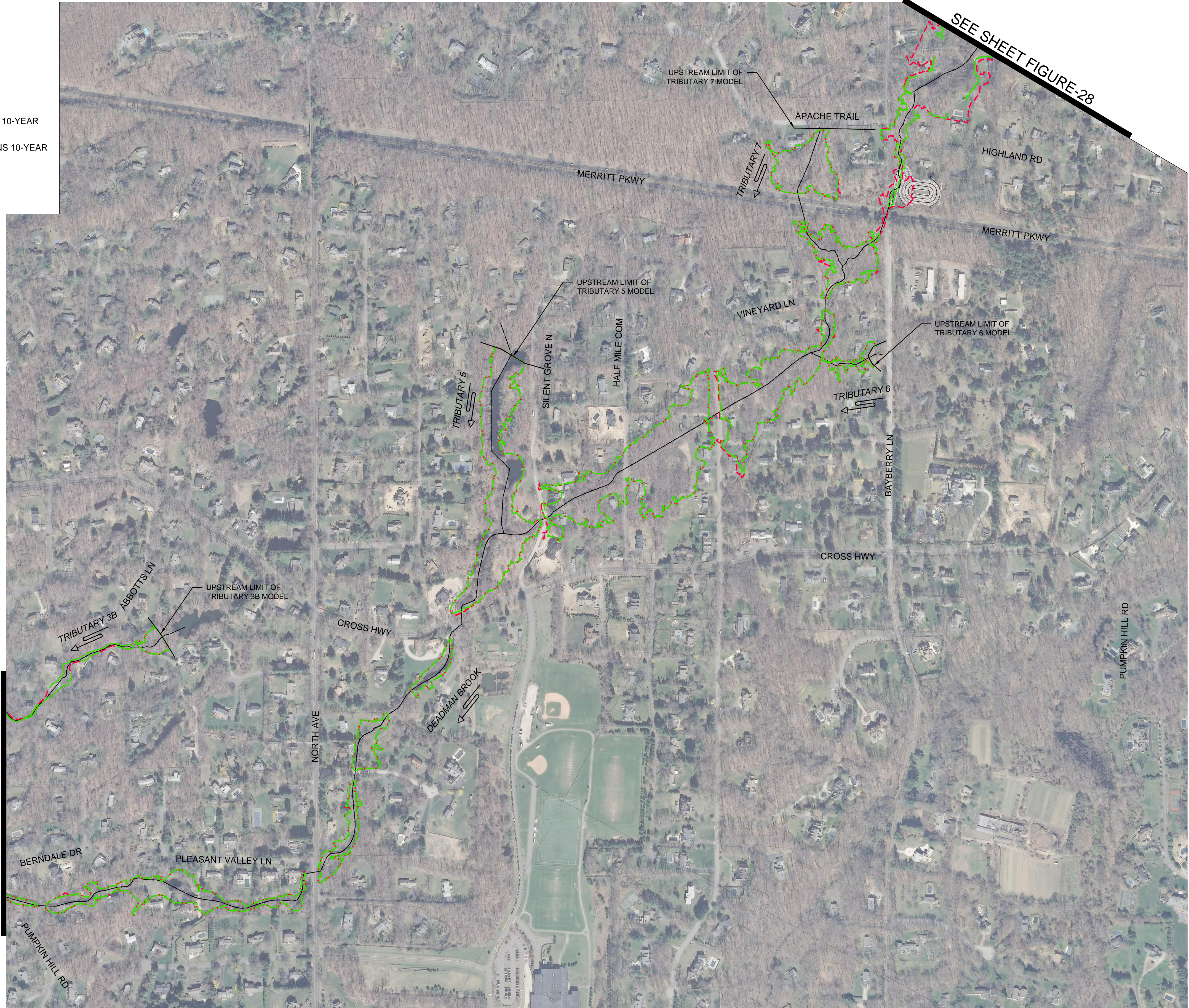
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--- EXISTING CONDITIONS 10-YEAR
INUNDATION LIMIT
- - - PROPOSED CONDITIONS 10-YEAR
INUNDATION LIMIT

SEE SHEET FIGURE-26



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Title
10-YEAR
RECOMMENDED VS
EXISTING CONDITIONS
INUNDATION LIMITS

Sheet No.

FIGURE-27

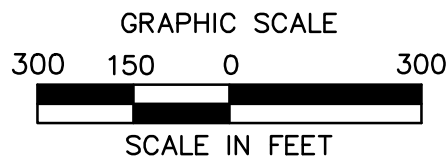
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--- EXISTING CONDITIONS 10-YEAR
INUNDATION LIMIT

--- PROPOSED CONDITIONS 10-YEAR
INUNDATION LIMIT

SEE SHEET FIGURE-27



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Project No.	16C6016
Date	MARCH 2018

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Title
10-YEAR
RECOMMENDED VS
EXISTING CONDITIONS
INUNDATION LIMITS

Sheet No.
FIGURE-28



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WESTPORT, CONNECTICUT

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No.	Desc.

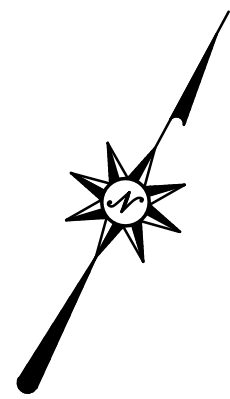
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Drawn	N.J.P.
Checked	D.M.C.
Approved	
Scale	1"=300'
Project No.	16C6016
Date	MARCH 2018

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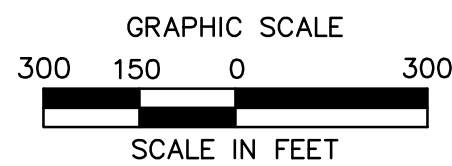
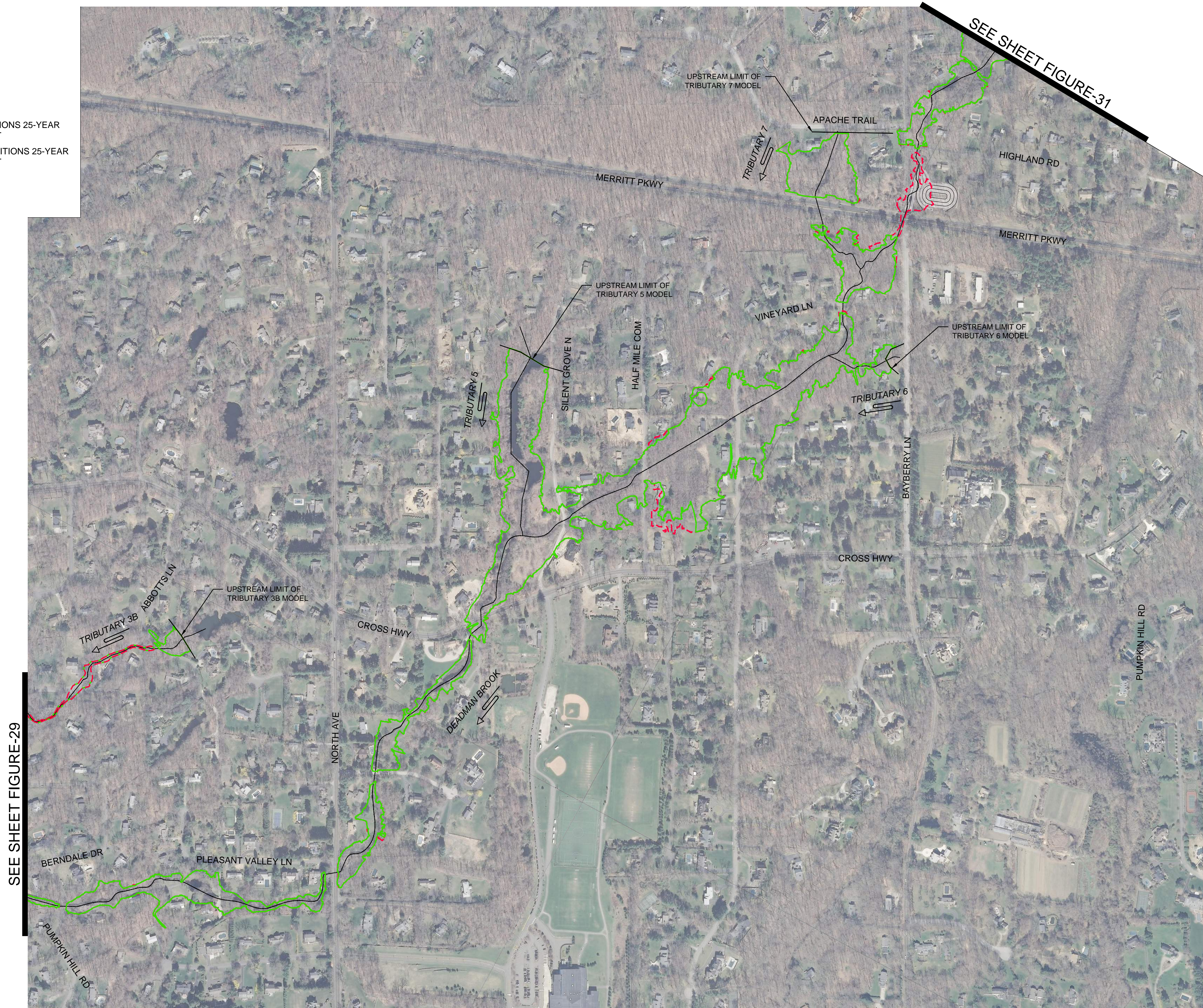
Title
**25-YEAR
RECOMMENDED VS
EXISTING CONDITIONS
INUNDATION LIMITS**

Sheet No.
FIGURE-29

Xref (s): ; Aerial With Watershed : BD16C6016-DWB ; XR16C601631



--- EXISTING CONDITIONS 25-YEAR
INUNDATION LIMIT
- - - PROPOSED CONDITIONS 25-YEAR
INUNDATION LIMIT



DEADMAN BROOK WATERSHED STUDY
WESTPORT, CONNECTICUT

REVISIONS		Desc.
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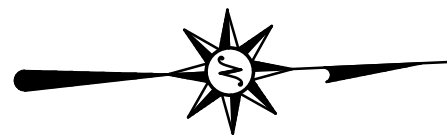
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Project No.	16C6016
Date	MARCH 2018

CAD File:
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Title
25-YEAR
RECOMMENDED VS
EXISTING CONDITIONS
INUNDATION LIMITS

Sheet No.

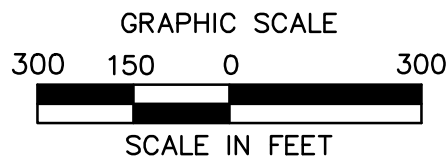
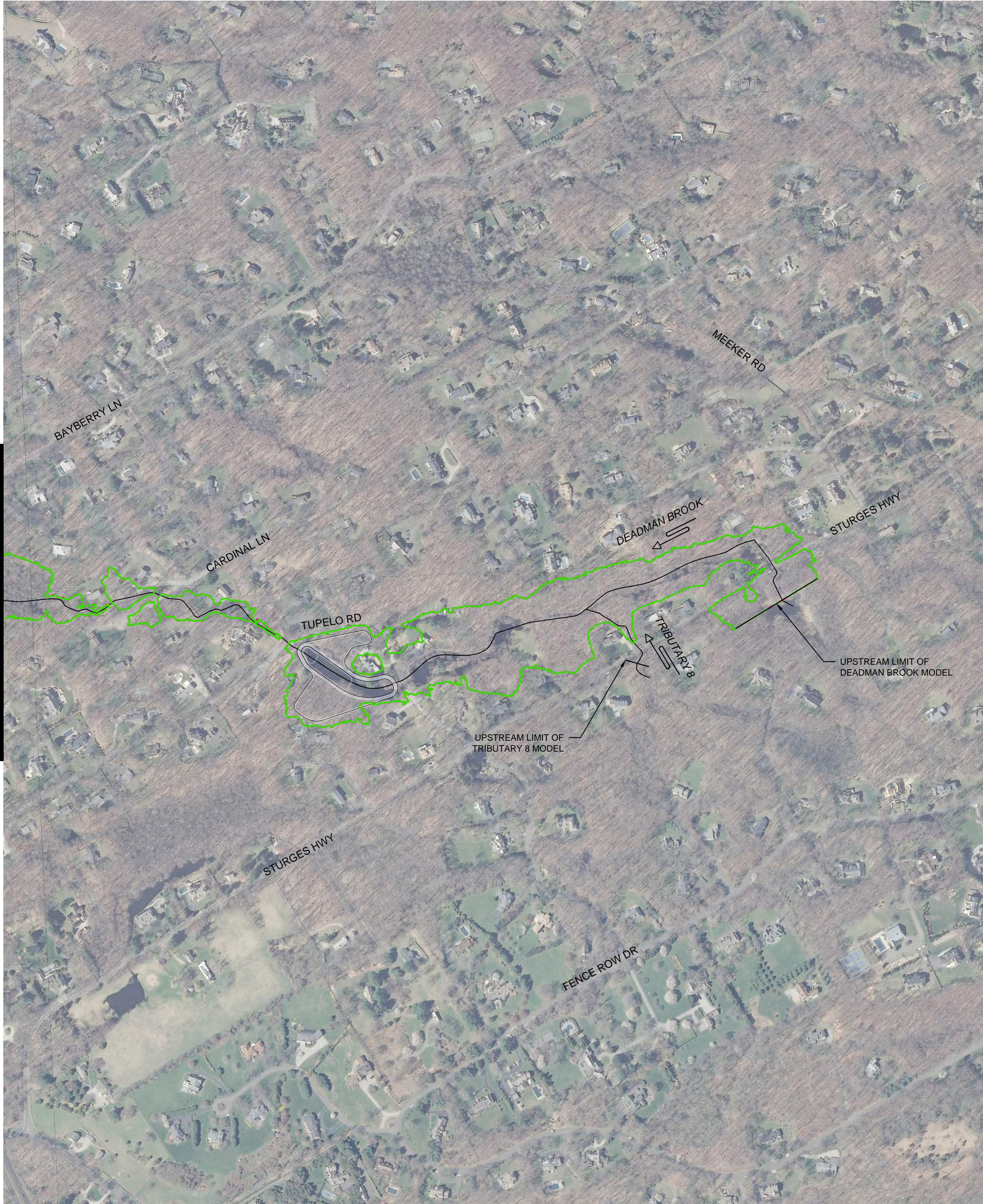
FIGURE-30



--- EXISTING CONDITIONS 25-YEAR
INUNDATION LIMIT

- - - PROPOSED CONDITIONS 25-YEAR
INUNDATION LIMIT

SEE SHEET FIGURE-30



DEADMAN BROOK WATERSHED STUDY
WESTPORT, CONNECTICUT

REVISIONS		Desc.
No.	Date	

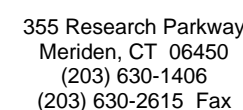
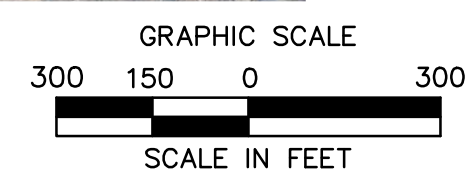
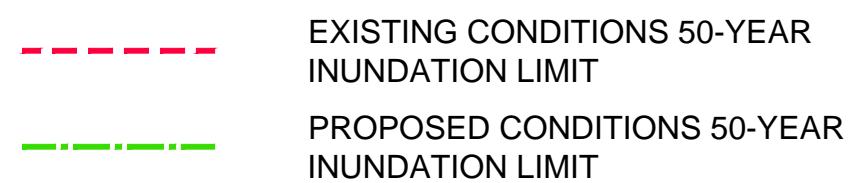
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Checked	D.M.C.
Approved	
Scale	1"=300'
Project No.	16C6016
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Title
25-YEAR
RECOMMENDED VS
EXISTING CONDITIONS
INUNDATION LIMITS

Sheet No.

FIGURE-31



DEADMAN BROOK WATERSHED STUDY

WESTPORT, CONNECTICUT

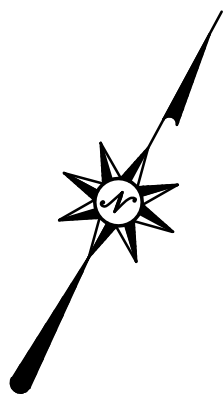
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No.	Date	
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Approved		
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Date	MARCH 2011	

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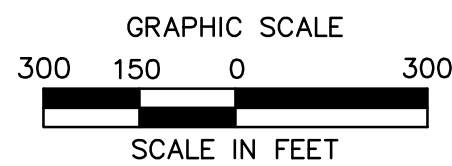
Title
50-YEAR
RECOMMENDED VS
EXISTING CONDITIONS
INUNDATION LIMITS

Sheet No.

FIGURE-32



--- EXISTING CONDITIONS 50-YEAR
INUNDATION LIMIT
- - - PROPOSED CONDITIONS 50-YEAR
INUNDATION LIMIT



DEADMAN BROOK WATERSHED STUDY
WESTPORT, CONNECTICUT

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Date	MARCH 2018

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Title
50-YEAR
RECOMMENDED VS
EXISTING CONDITIONS
INUNDATION LIMITS

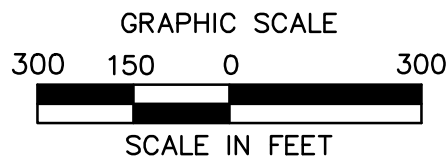
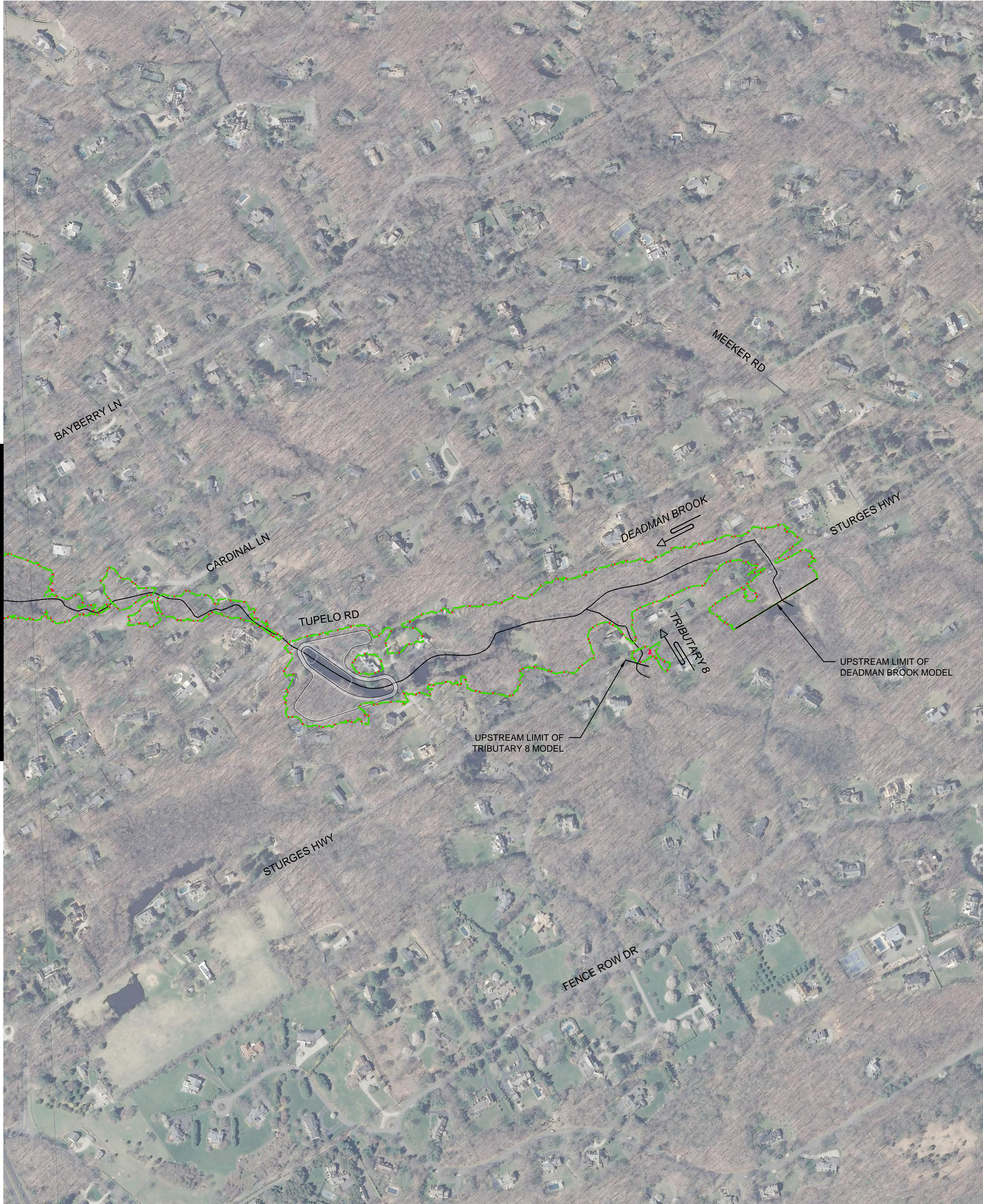
Sheet No.
FIGURE-33



--- EXISTING CONDITIONS 50-YEAR
INUNDATION LIMIT

--- PROPOSED CONDITIONS 50-YEAR
INUNDATION LIMIT

SEE SHEETFIGURE-33



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WESTPORT, CONNECTICUT

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Drawn N.J.P.
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Approved
Scale 1"=300'
Project No. 16C6016
Date MARCH 2018

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Title
50-YEAR
RECOMMENDED VS
EXISTING CONDITIONS
INUNDATION LIMITS

Sheet No.

FIGURE-34



- FEMA 100-YEAR FLOODPLAIN
- EXISTING CONDITIONS 100-YEAR INUNDATION LIMIT
- PROPOSED CONDITIONS 100-YEAR INUNDATION LIMIT

SEE SHEET FIGURE-36

355 Research Parkway
Meriden, CT 06450
(203) 630-1406
(203) 630-2615 Fax

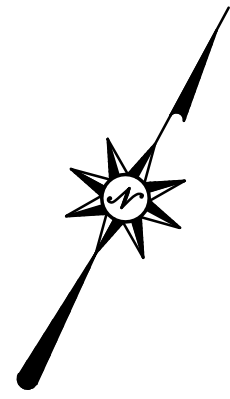
DEADMAN BROOK WATERSHED STUDY
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Drawn	N.J.P.
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Approved	
Scale	1"=300'
Project No.	16C6016
Date	MARCH 2018

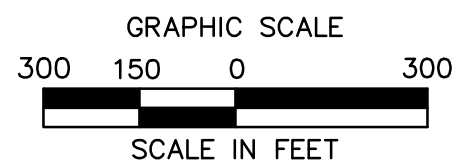
CAD File:
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Title
100-YEAR
RECOMMENDED VS
EXISTING CONDITIONS
INUNDATION LIMITS



- FEMA 100-YEAR FLOODPLAIN
- EXISTING CONDITIONS 100-YEAR INUNDATION LIMIT
- PROPOSED CONDITIONS 100-YEAR INUNDATION LIMIT

SEE SHEET FIGURE-35



DEADMAN BROOK WATERSHED STUDY
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Drawn	N.J.P.
Checked	D.M.C.
Approved	
Scale	1"=300'
Project No.	16C6016
Date	MARCH 2018

CAD File:
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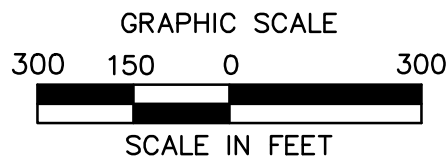
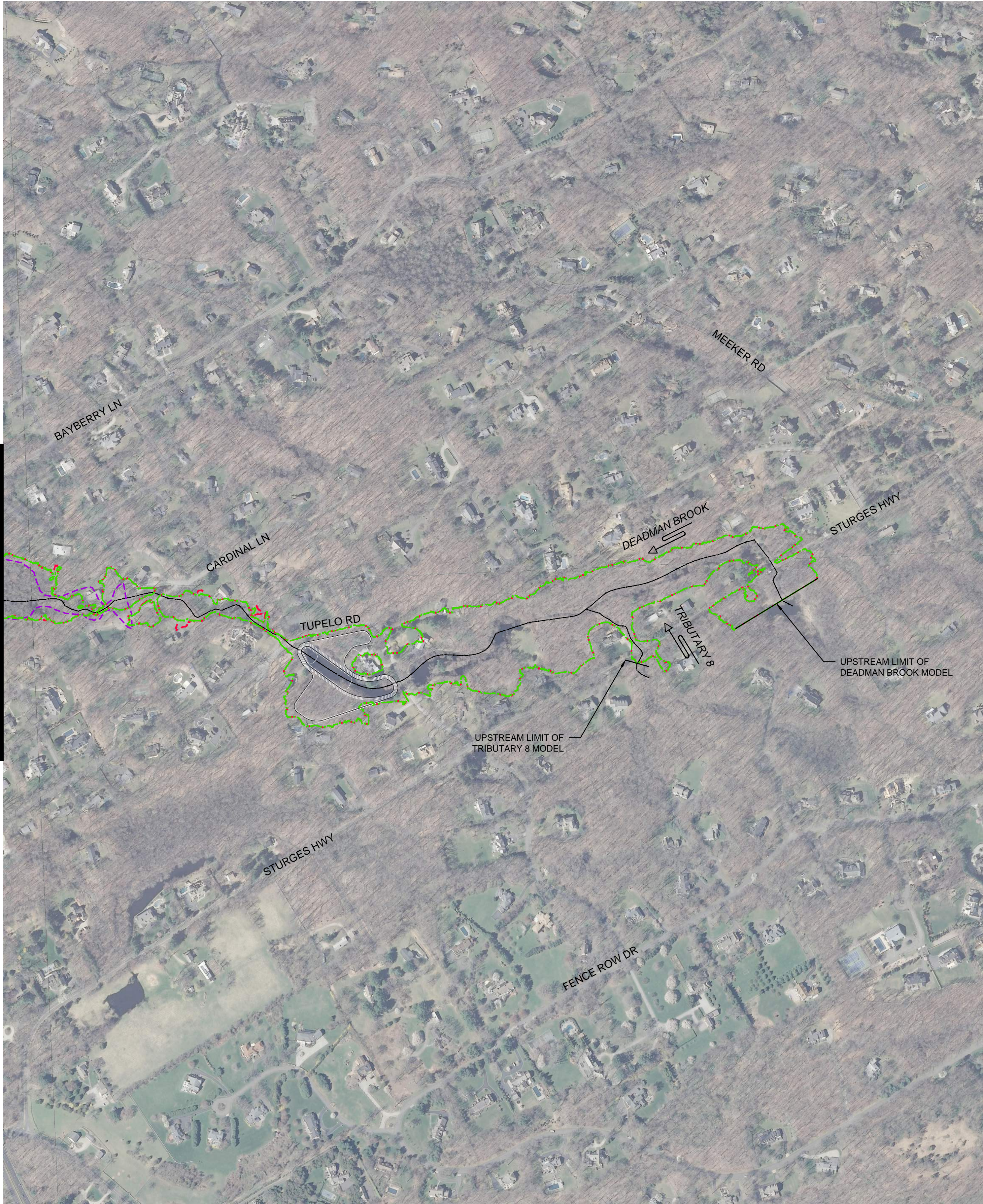
Title
100-YEAR
RECOMMENDED VS
EXISTING CONDITIONS
INUNDATION LIMITS

Sheet No.
FIGURE-36



- FEMA 100-YEAR FLOODPLAIN
- EXISTING CONDITIONS 100-YEAR INUNDATION LIMIT
- PROPOSED CONDITIONS 100-YEAR INUNDATION LIMIT

SEE SHEET FIGURE-36



DEADMAN BROOK WATERSHED STUDY
WESTPORT, CONNECTICUT

REVISIONS		Desc.
No.	Date	

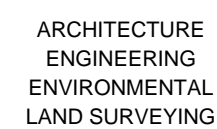
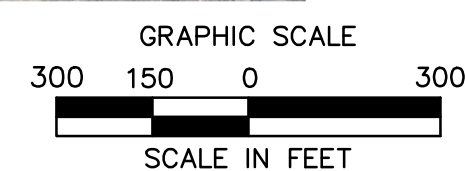
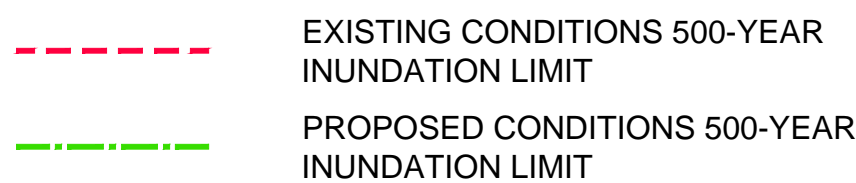
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Drawn	N.J.P.
Checked	D.M.C.
Approved	
Scale	1"=300'
Project No.	16C6016
Date	MARCH 2018

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Title
100-YEAR
RECOMMENDED VS
EXISTING CONDITIONS
INUNDATION LIMITS

Sheet No.

FIGURE-37



355 Research Parkway
Meriden, CT 06450
(203) 630-1406
(203) 630-2615 Fax

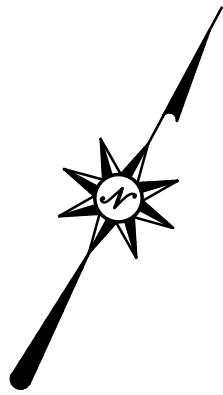
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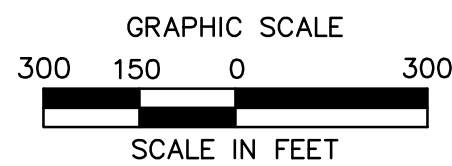
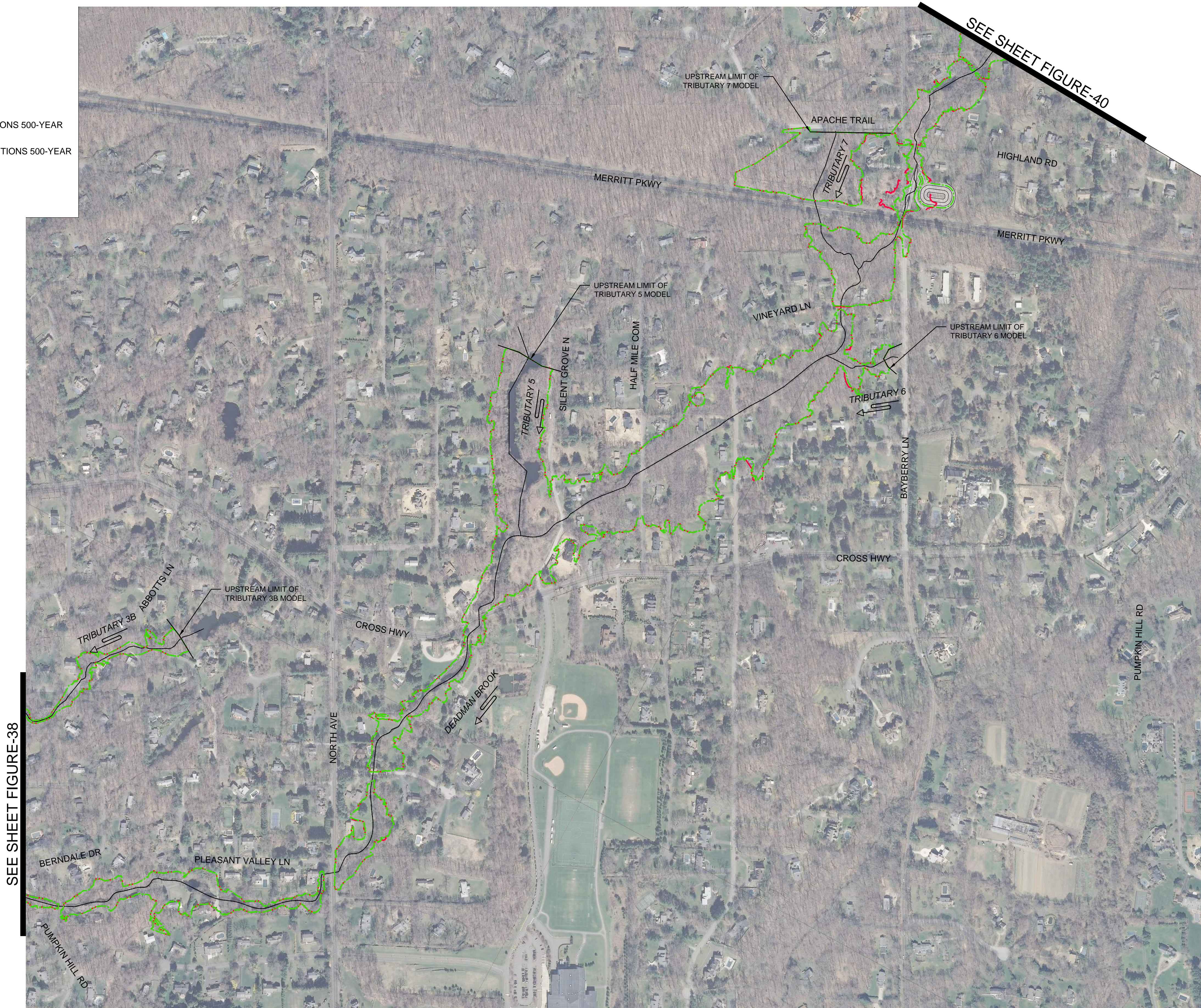
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Project No.	16C6016	
Date	MARCH 2018	

Title
500-YEAR
RECOMMENDED VS
EXISTING CONDITIONS
INUNDATION LIMITS

Sheet No. **FIGURE-38**



--- EXISTING CONDITIONS 500-YEAR
INUNDATION LIMIT
- - - PROPOSED CONDITIONS 500-YEAR
INUNDATION LIMIT



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WESTPORT, CONNECTICUT

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Scale	1" = 300'
Project No.	16C6016
Date	MARCH 2018

CAD File:
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Title
500-YEAR
RECOMMENDED VS
EXISTING CONDITIONS
INUNDATION LIMITS

Sheet No.

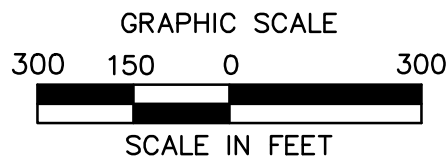
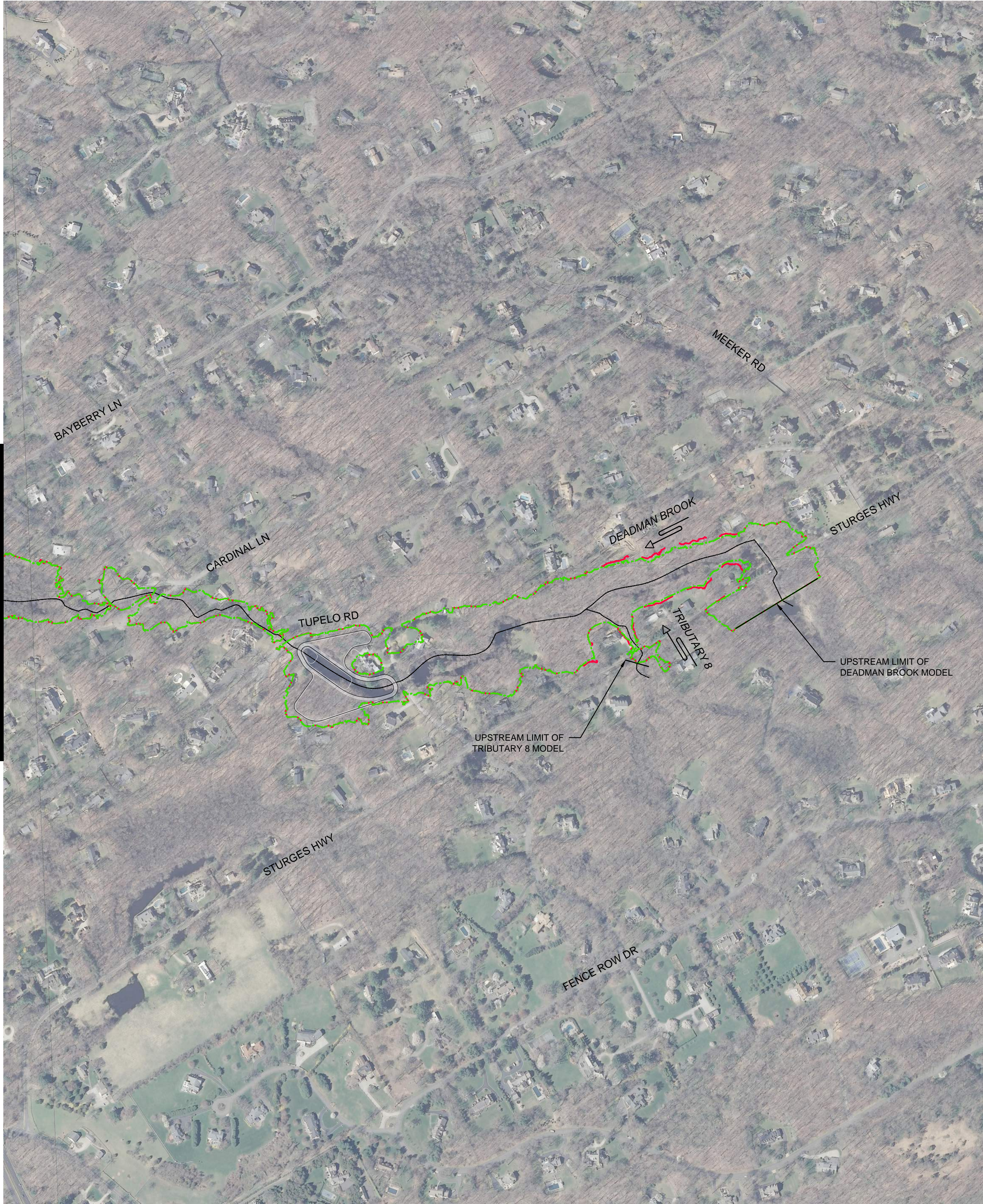
FIGURE-39



--- EXISTING CONDITIONS 50-YEAR
INUNDATION LIMIT

--- PROPOSED CONDITIONS 50-YEAR
INUNDATION LIMIT

SEE SHEET FIGURE-39



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WESTPORT, CONNECTICUT

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Scale 1"=300'
Project No. 16C6016
Date MARCH 2018

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Title
500-YEAR
RECOMMENDED VS
EXISTING CONDITIONS
INUNDATION LIMITS

Sheet No.

FIGURE-40