

TRIBUT

Office estimate 1@103" x 71"
MIN BRG = 45' CSPH
No FEMA - No MOA
No State Stormwater
Possible bottom less
culvert

Print Record

Form PDR Action PDR P/P 412

GENERAL INFO

Date 5/23/2011

Div WBS

13

TIP #

Proj #

Let Date

County MITCHELL

Bridge # 146

Road # SR 1330

Road Name: HUGHES GAP RD

Stream BIG ROCK CR

Req Type

Name

Assigned To

Checked By

Prior Survey

Survey Date

Recommendation

Study by Scour Section

DRAINAGE INFO

Flood Zone NO

Panel # 868

Study Type

NO STUDY

Study Date

IS THERE A HEC RAS TYPE MODEL

☐

BM info

Quad IRON MOUNTAIN GAP

Drainage Area 161.58

Acres

DA Source QUAD

Q25 90 cfs

Q 50 120 cfs

Q100 150 cfs

METHOD RURAL HIGHWAY CHARTS

BASIN TYPE REGION 2

EXISTING INFO

Location 1.3 MI.N.JCT.SR1332

GPS CO-ORD(Dec) 82.1625 36.1291

OAL 18

B-C 8

Depth 1

ADT 690

Skew 119

Stream Slope

STRUCTURE TYPE TIMBER DECK/ TIMBER JOISTS

Spans 1@18'-3

UP STREAM INFO

US Structure

US Road #

US Str OAL

US Location

US B-C

US Prior survey

DOWN STREAM INFO

DS Structure

DS Road #

DS Str OAL

DS Location

DS B-C

DS Prior survey

SCS Watershed

ENVIRONMENTAL INFO

Trout Stream YES

Anadromous Fish NO

Primary Nursery Area NO

High Quality Waters NO

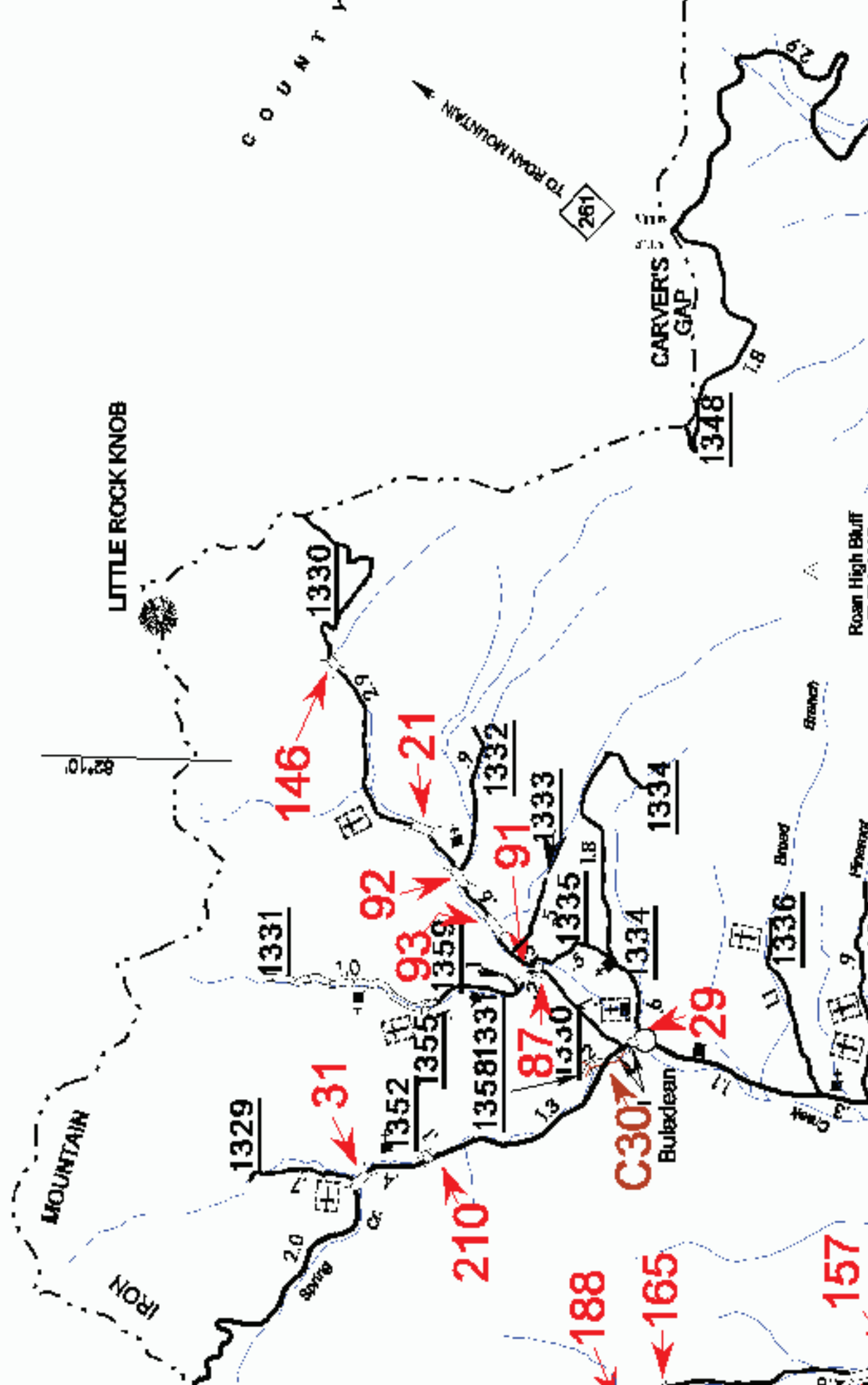
NUTRIENT SENSITIVE WATERS NO

NEAR WATER SUPPLY INTAKE NO

CAMA COUNTY NO

STREAM CLASSIFICATION C;Tr

DENR RIVER BASIN FRENCH BROAD





NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
BRIDGE MANAGEMENT UNIT

ATTENTION

BRIDGE INSPECTION REPORT

INSPECTION TYPE: Routine Inspection

COUNTY MITCHELL BRIDGE NUMBER 600146 INSPECTION CYCLE 2 YRS
ROUTE SR1330 ACROSS CREEK M.P. 0

LOCATION 1.3 MI.N.JCT.SR1332

SUPERSTRUCTURE TIMBER FLOOR ON TIMBER JOISTS

SUBSTRUCTURE E.BTS:TIM.CAPS/POST&SILLS@VAR.CENTERS

SPANS 1@18'-3

LONGITUDE	<u>82° 9' 74.8"</u>	<u>82° 9' 44.9"</u>	LATITUDE	<u>36° 7' 74.7"</u>	<u>36° 7' 44.8"</u>
PRESENT CONDITION	<u>FAIR</u>		INVENTORY RATING	<u></u>	
INSPECTION DATE	<u>11/12/2009</u>		OPERATING RATING	<u></u>	
PRESENT POSTING	<u>SV 16 TTST 23</u>	<u>SV-12,TTST-20</u>	PROPOSED POSTING	<u></u>	
COMPUTER UPDATE	<u></u>		ANALYSIS DATE	<u></u>	
POSTING LETTER DATE	<u></u>		SUFFICIENCY RATING	<u></u>	
OTHER SIGNS PRESENT	<u>DELINEATORS, NARROW BRIDGE</u>				



NORTH

SIGN NOTICE ISSUED FOR		NUMBERED REQUIRED
<u>No</u>	WEIGHT LIMIT	<u></u>
<u>Yes</u>	DELINEATORS	<u>1</u>
<u>No</u>	NARROW BRIDGE	<u></u>
<u>No</u>	ONE LANE BRIDGE	<u></u>
<u>No</u>	LOW CLEARANCE	<u></u>

BRIDGE MANAGEMENT UNIT
DATA ON EXISTING STRUCTURE

Run Date: 01/12/2010

COUNTY : MITCHELL	DIV : 13	DIST : 1	STRUCTURE NUMBER : 600146	LENGTH : 18	FEET
ROUTE CARRIED : SR1330			FEATURE INTERSECTED : CREEK		
LOCATED : 1.3 MI.N.JCT.SR1332			BRIDGE NAME :		
FUNC. CLASS : 08	SYST.ON : NFA	SYST.UNDER : NFA	ADT & YR : 690 2008	RAIL TYPE : LT 227 RT 227	
BUILT : 1963	BY : BMU	PROJ :	FED.AID PROJ :	DESIGN LOAD : Other or Unknown	
REHAB :	BY :	PROJ :	ALIGNMENT : TAN	SKEW : 119	LANES : ON 2 UNDER
NAVIGATION : VC 0.0 FT HC 0.0 FT			HT. CRN. TO BED : 8 FT		WATER DEPTH : 1 FT
SUPERSTRUCTURE : TIMBER FLOOR ON TIMBER JOISTS					
SUBSTRUCTURE : E.BTS:TIMBER CAPS/POST&SILLS @ VAR. CENTERS					
SPANS : 1 @ 18'-3					
BEAMS OR GIRDERS : 9 LNS.6X12 TIMBER JSTS;2 LNS.DBL.6X12 TIM.JSTS.@VAR.CTS.					
FLOOR : 4X8 TIM/4 AWS	ENCROACHMENT :		DECK (OUT TO OUT) : 20.0 FT		
CLEAR ROADWAY : 19.0 FT	BETWEEN RAILS : 19.7 FT		SIDEWALK OR CURB : LT 0.3 FT RT 0.3 FT		
VERT.CL.OVER : 99 FT 99 IN	VERT.CL.UNDER : 00 FT 00 IN		HOR.CL.UNDER : 0.0 FT		
INV.RTG. : HS-1	OPE.RTG. : HS-1	CONTR.MEMBER : IJ(Decay)	POSTED : SV 7	TTST 7	DATE 01/12/2010
SYSTEM : Secondary S.R. Route			GREEN LINE ROUTE : N		
2ND OPENING :		3RD OPENING :		4TH OPENING :	
5TH OPENING :					
REMARKS :					

Stream Bed Soundings

(See next sheet for profile sketch)

Bridge No: 600146 County: MITCHELL Date: 11/12/2009 By: RWS

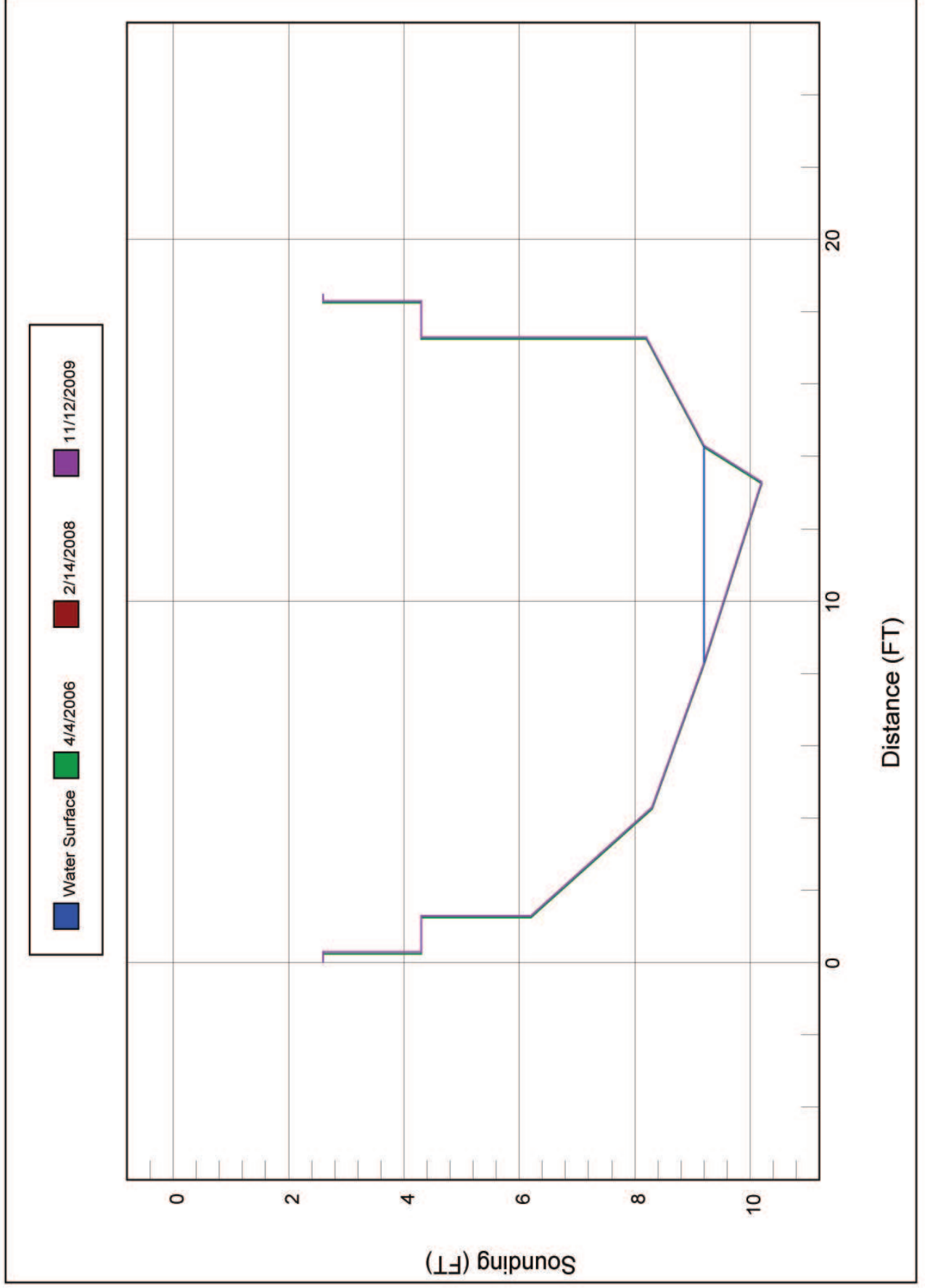
Record sounding from top of rail. Other location if needed: _____

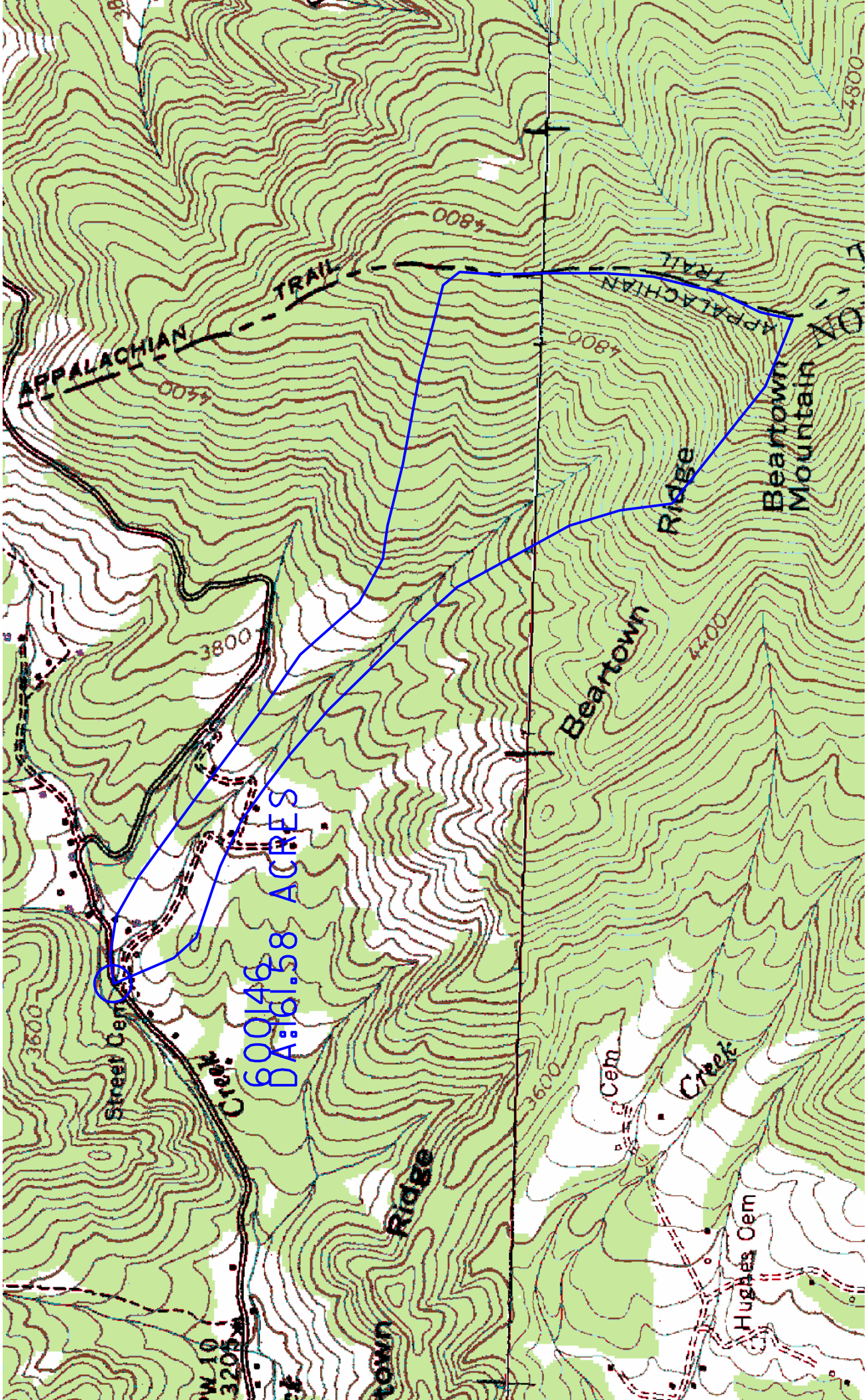
Distance from Highwater Mark to top of rail: _____ Location of Highwater Mark: _____

DOWNSTREAM			UPSTREAM		
Distance (Station) (ft)	Sounding (ft)	Description	Distance (Station) (ft)	Sounding (ft)	Description
0	2.6				
0.3	2.6				
0.3	4.3				
1.3	4.3				
1.3	6.2				
4.3	8.3				
8.3	9.2	Water Surface/Water Edge (WSWE)			
11.3	9.8				
13.3	10.2				
14.3	9.2	Water Surface/Water Edge (WSWE)			
17.3	8.2				
17.301	4.3				
18.3	4.3				
18.301	2.6				
18.5	2.6				

STREAMBED PROFILE (Downstream)

Top of Rail = 0 FT (Sounding)





600146
DA:161.58 ACRES

Use this if rural area is < than 1.0 sq. mi., otherwise use USGS

Rural

	D.A.=(acres)	161.58	
Chart # 200.1	Hydrologic Contour	7	4 is minimum
Chart # 200.2	Q50(ft ³ /s)	170	
Correction Factors	D.A.Length=(ft.)	7460	
	A/L ² =	0.1	
Chart # 200.4	Shape Correction	0.7	
Chart # 200.5	Cover Correction	N/A	
	Total Correction	0.7	min=0.7, max=1.5

Q5	46.4	Ft ³ /s
Q10	63.1	Ft ³ /s
Q25	90.4	Ft ³ /s
Corrected Q50(ft ³ /s)	119.0	Ft ³ /s
Q100	144.0	Ft ³ /s