

Design Exception → office estimate 2@73"x55"
see prior survey.
Min Brg = 35'
No FEMA - No MOA
No State Stormwater

Print Record

Form PDR Action PDR P/P 412

GENERAL INFO

Date 5/26/2011 Div WBS TIP #
13 Proj #
Let Date

County MITCHELL Bridge # 092

Road # SR1330 Road Name:

Stream LYDDIES CREEK

Req Type Name Assigned To Checked By
Prior Survey YES Survey Date 3/25/02 Recommendation 2@73"x55" CSP
Study by Scour Section

DRAINAGE INFO

Flood Zone Panel # Study Type Study Date
NO STUDY

IS THERE A HEC RAS TYPE MODEL ☐

BM info
Quad BAKERSVILLE
Drainage Area 1.83 SQ DA Source QUAD
Q25 620 cfs Q 50 740 cfs Q100 890 cfs
METHOD USGS REGRESSION EQUATION BASIN TYPE REGION 2

EXISTING INFO

Location
GPS CO-ORD(Dec)
OAL 18 B-C 5 Depth 1
ADT Skew 90 Stream Slope
STRUCTURE TYPE TIMBER DECK/ TIMBER JOISTS
Spans 1@18'-2

UP STREAM INFO

US Structure US Road # US Str OAL
US Location
US B-C US Prior survey

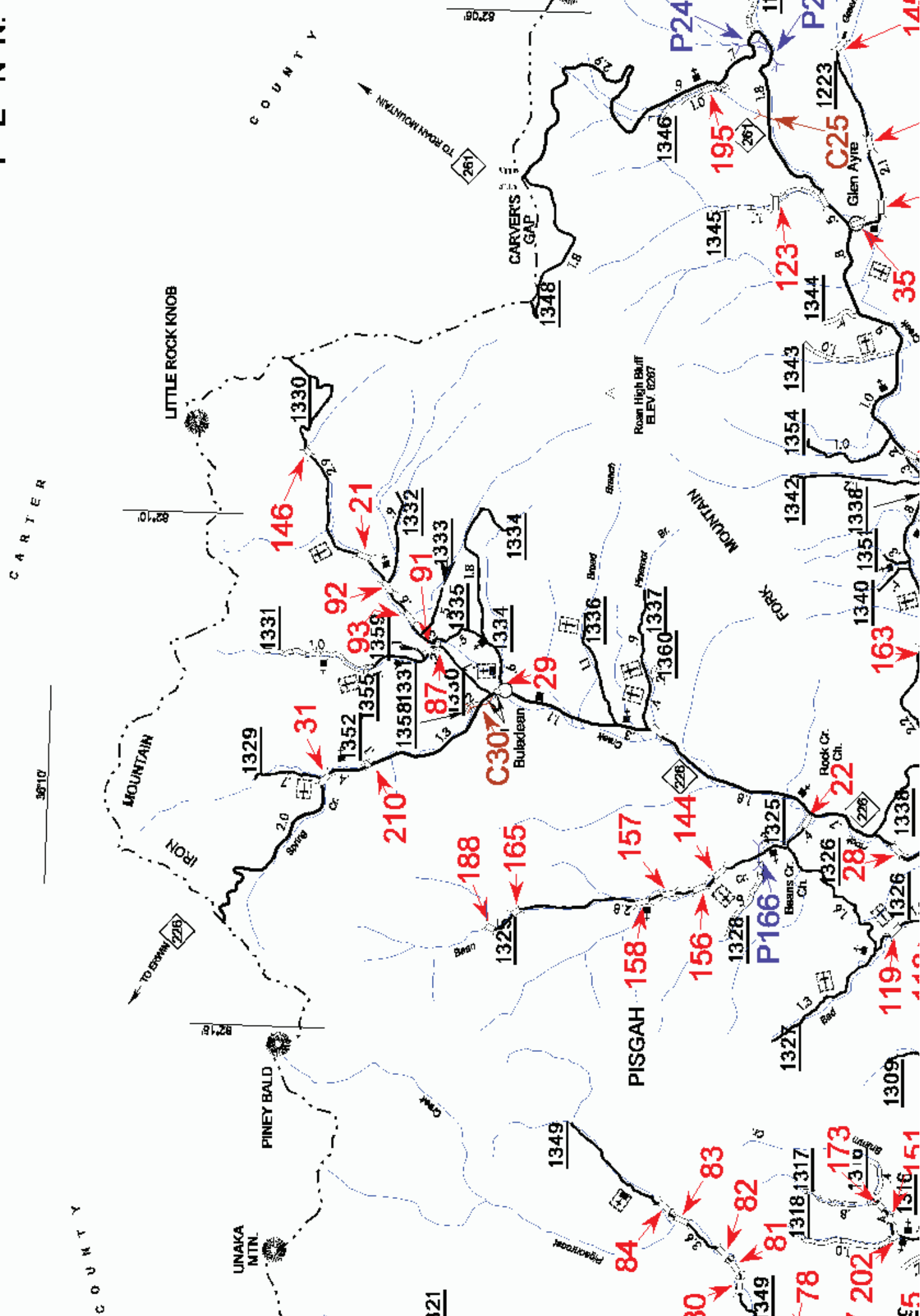
DOWN STREAM INFO

DS Structure 93 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

TENN.





NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
BRIDGE MANAGEMENT UNIT

ATTENTION

BRIDGE INSPECTION REPORT

INSPECTION TYPE: Routine Inspection

COUNTY MCDOWELL BRIDGE NUMBER 580245 INSPECTION CYCLE 2 YRS
ROUTE SR1128 ACROSS CREEK M.P. 0

LOCATION .05 MI.E.JCT.SR1127

SUPERSTRUCTURE TIMBER FLOOR ON TIMBER JOISTS

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

SPANS 1 @ 16'-6

LONGITUDE 82° 9' 56.8"

LATITUDE 35° 35' 20.8"

PRESENT CONDITION FAIR

INVENTORY RATING

INSPECTION DATE 05/28/2010

OPERATING RATING

PRESENT POSTING Not Posted SV 10 TTST 17

PROPOSED POSTING

COMPUTER UPDATE

ANALYSIS DATE

POSTING LETTER DATE

SUFFICIENCY RATING

OTHER SIGNS PRESENT DELINS (4) & NARROW BRIDGE (2)



LOOKING EAST

SIGN NOTICE ISSUED FOR		NUMBERED REQUIRED
<u>No</u>	WEIGHT LIMIT	<u></u>
<u>No</u>	DELINEATORS	<u></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: 07/07/2010

COUNTY : MCDOWELL	DIV : 13	DIST : 1	STRUCTURE NUMBER : 580245	LENGTH : 17	FEET
ROUTE CARRIED : SR1128			FEATURE INTERSECTED : CREEK		
LOCATED : .05 MI.E.JCT.SR1127		BRIDGE NAME :		CITY :	
FUNC. CLASS : 09	SYST.ON : NFA	SYST.UNDER : NFA	ADT & YR : 600 1998	RAIL TYPE : LT 227 RT 227	
BUILT : 1961	BY : BMU	PROJ :	FED.AID PROJ :	DESIGN LOAD : Other or Unknown	
REHAB :	BY :	PROJ :	ALIGNMENT : TAN	SKEW : 65	LANES : ON 2 UNDER
NAVIGATION : VC 0.0 FT		HT. CRN. TO BED : HC 0.0 FT		WATER DEPTH : 6 FT 1 FT	
SUPERSTRUCTURE : TIMBER FLOOR ON TIMBER JOISTS					
SUBSTRUCTURE : E.BTS:TIMBER CAPS/TIMBER POST&SILLS @ VAR.CENTERS					
SPANS : 1 @ 16'-6					
BEAMS OR GIRDERS : 10 LINES 6X12 TIMBER JOISTS @ 2' CENTERS					
FLOOR : 4X8 TIM/4 AWS	ENCROACHMENT :		DECK (OUT TO OUT) : 20.1 FT		
CLEAR ROADWAY : 19.2 FT	BETWEEN RAILS : 19.8 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-7	OPE.RTG. : HS-11	CONTR.MEMBER : ext jost	POSTED : SV 10	TTST 17	DATE 06/23/2008
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: 580245 County: MCDOWELL Date: 05/28/2010 By: MER

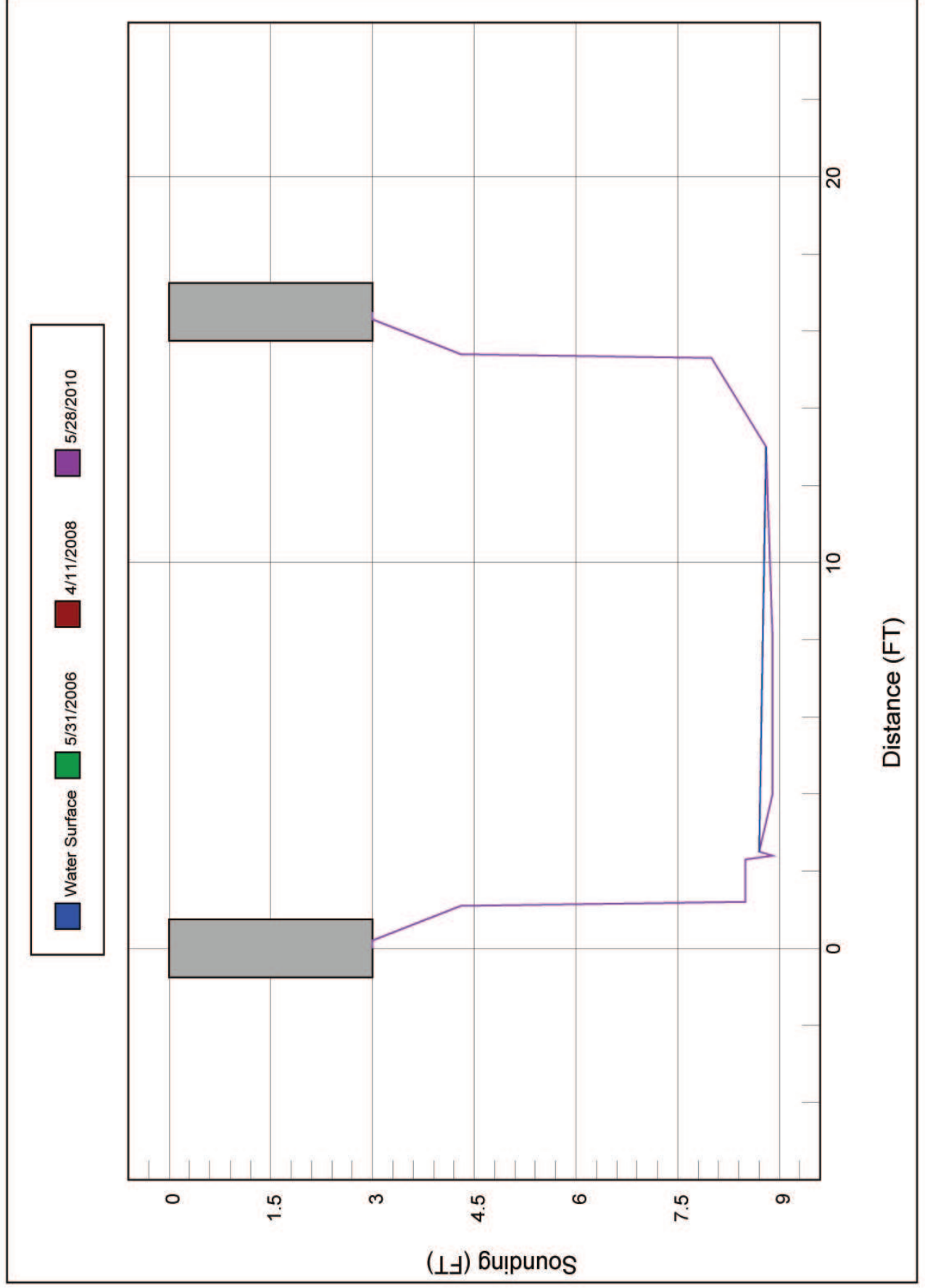
Record sounding from top of rail. Other location if needed: _____

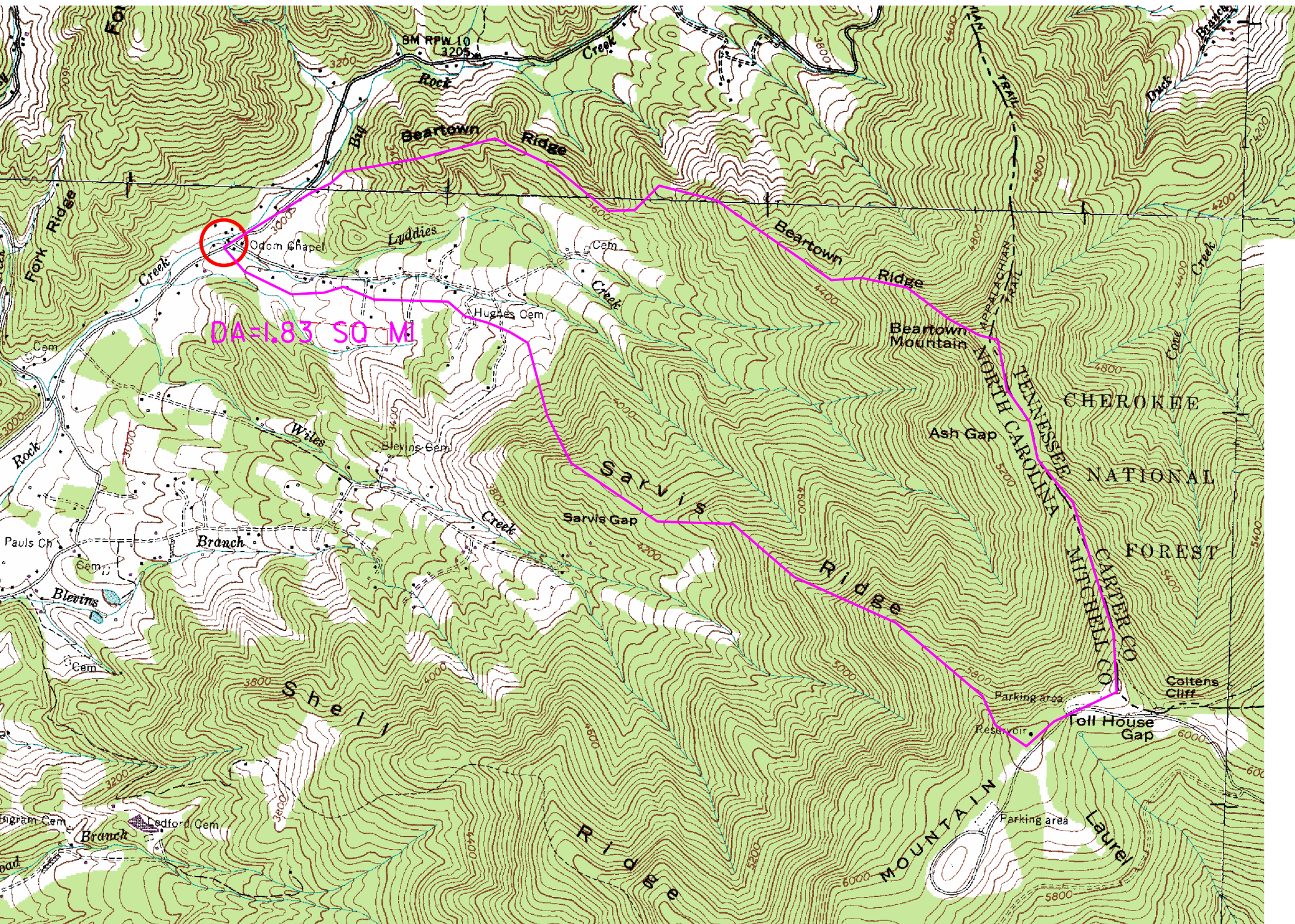
Distance from Highwater Mark to top of rail: _____ Location of Highwater Mark: _____

DOWNSTREAM			UPSTREAM		
Distance (Station) (ft)	Sounding (ft)	Description	Distance (Station) (ft)	Sounding (ft)	Description
0	3	FF END BENT 1			
0.2	3				
1.1	4.3	RAIL TO CAP			
1.2	8.5	S.F.	1.2	8.6	
2.3	8.5	TOP OF FOOTING			
2.4	8.9	FACE OF FOOTING			
2.5	8.7	Water Surface/Water Edge (WSWE)			
4	8.9				
8	8.9				
13	8.8	Water Surface/Water Edge (WSWE)			
15.3	8	S.F.	15.3	7.5	
15.4	4.3	RAIL TO CAP			
16.3	3				
16.5	3	FF.END BENT 2			

STREAMBED PROFILE (Downstream)

Top of Rail = 0 FT (Sounding)





This spreadsheet computes the 50-, 20-, 10-, 4-, 2-, 1-, 0.5-, and 0.2-percent chance exceedance flows for an ungaged site in Georgia, South Carolina, and North Carolina. The spreadsheet also includes the 95-percent prediction intervals, the minus and plus standard error of prediction intervals, and the average standard error of prediction. To use the spreadsheet, enter requested information in the yellow cells below.

Enter a site-description name: 600092

Enter the explanatory variables:

Drainage area, in square miles	1.83
Percent of basin in Hydrologic Region 1	
Percent of basin in Hydrologic Region 2	100
Percent of basin in Hydrologic Region 3	
Percent of basin in Hydrologic Region 4	
Percent of basin in Hydrologic Region 5	

Applicable range of drainage area is 1 to 9,000 square miles.
Hydrologic Region 1 corresponds to the USEPA Level III Ridge and Valley and Piedmont ecoregions
Hydrologic Region 2 corresponds to the USEPA Level III Blue Ridge ecoregion
Hydrologic Region 3 corresponds to the USEPA Level IV Sand Hills ecoregion
Hydrologic Region 4 corresponds to the USEPA Level III Southeastern, Middle Atlantic Coastal, and Southern Coastal Plain ecoregions
Hydrologic Region 5 corresponds to the lower portion of the USEPA Level IV Tifton Uplands ecoregion.

Sum of region percentages	100

Drainage area check DRAINAGE AREA WITHIN APPLICABLE LIMITS:

Percent chance exceedance	Percent chance exceedance flow, in ft ³ /s	Lower 95 percent prediction interval flow, in ft ³ /s	Upper 95 percent prediction interval flow, in ft ³ /s	-S _{PH} (percent)	+S _{PH} (percent)	Average S _{PH} (percent)
50	176	80	345	-29.0	40.9	35.4
20	329	169	640	-28.8	40.5	35.0
10	450	226	895	-29.6	42.0	36.2
4	617	297	1,280	-31.2	45.3	38.7
2	739	341	1,600	-32.6	48.3	41.0
1	885	392	2,000	-34.0	51.5	43.4
0.5	1,010	428	2,380	-35.5	55.0	46.0
0.2	1,220	487	3,060	-37.4	59.8	49.6

