

OFFICE ESTIMATE

2 @ 10 x 8 RCBC

PREDESIGN-PRESURVEY REPORT

Project# _____
 TIP# _____
 Let Date _____
 WBS# 17 BP. 14. R. 95

County HAYWOOD (DIV. 14)

Bridge# 430 372
 Road# SR 1346
 Stream STEPHENS CREEK
STEVENS CREEK

Type Of Request: POC Force Account TIP NCMA

Date 8/27/13 Name WshAssigned To RCH

Checked By _____

Prior Survey Date NONE (attach copy of prior survey) BB: NO CO. FILE: NOStudy By Scour Section NONEFlood Zone X Detail Study NONE Date _____ Panel# 8701B.M. Info N/AQuad Map _____ Drainage Area 1.4 Sq M. From STREAM STATS

Q25 = 510 cfs Q50 = 600 cfs Q100 = 750 cfs Method RURAL REG EQU.
REGION 2

EXISTING BRIDGE INFORMATION

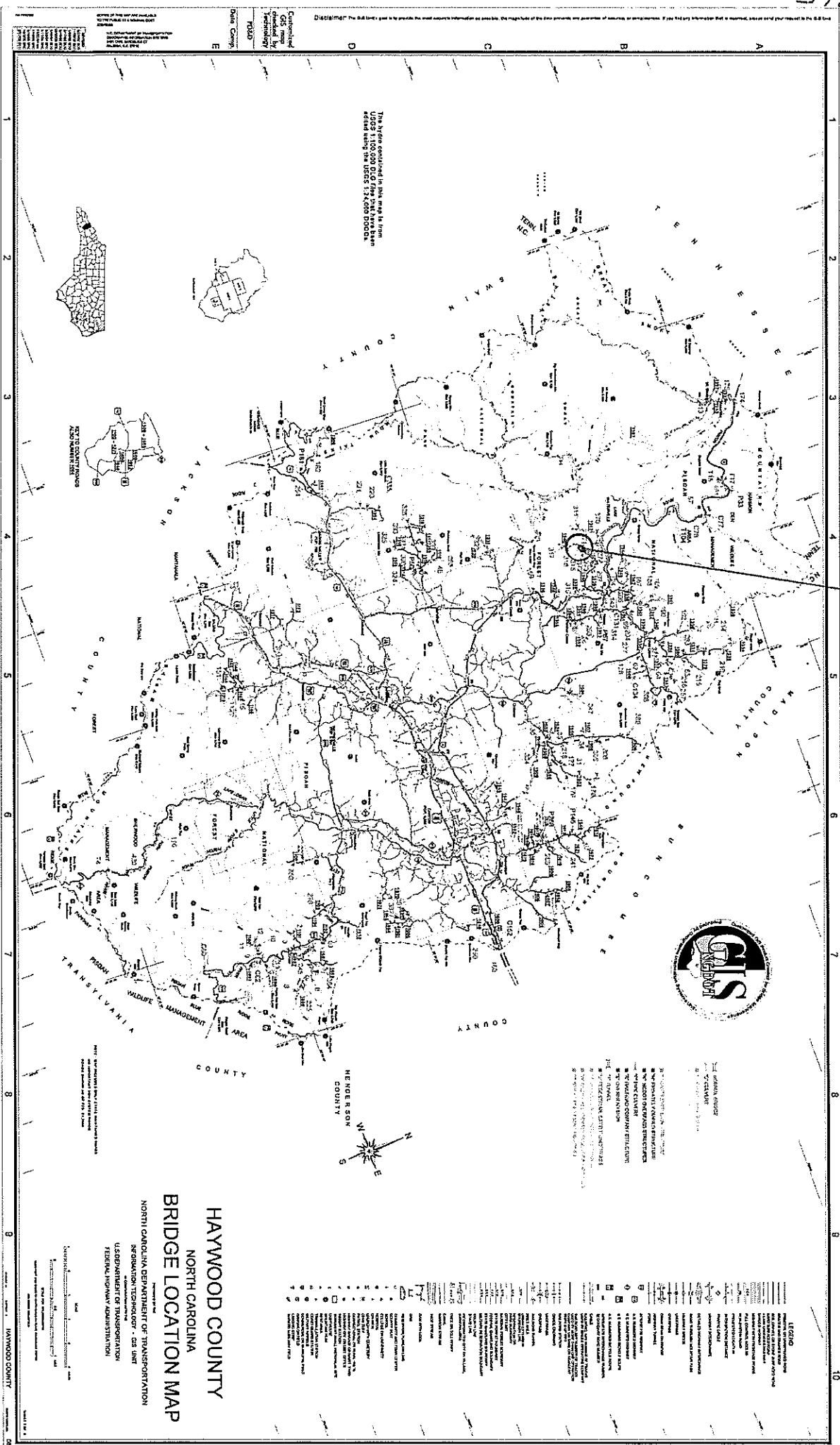
Location 0.3 MI. S. JCT. SR 1347Average Daily Traffic 220 (2000) 6 1/2 TRK.Length 21' Bed- To Crown 7' Water Depth 1'Type Structure TIMBER FLOOR ON TIMBER JOIST, TIMBER CAPS, POST, SILLSType Spans 1 @ 20' 6"Upstream Structure 315 (SR 1346) BRG. 1 @ 16' 6"Location 1.3 MI. S. JCT. SR 1347Bed- To Crown 8' (H₂O = 1' DEEP) Prior Survey _____Downstream Structure 371 (SR 1346) BRG. 1 @ 25' 6" L=27'Location 0.05 MI. S. JCT. SR 1347Bed- To Crown 6' (H₂O = 1' DEEP) Prior Survey _____

SCS Watershed _____

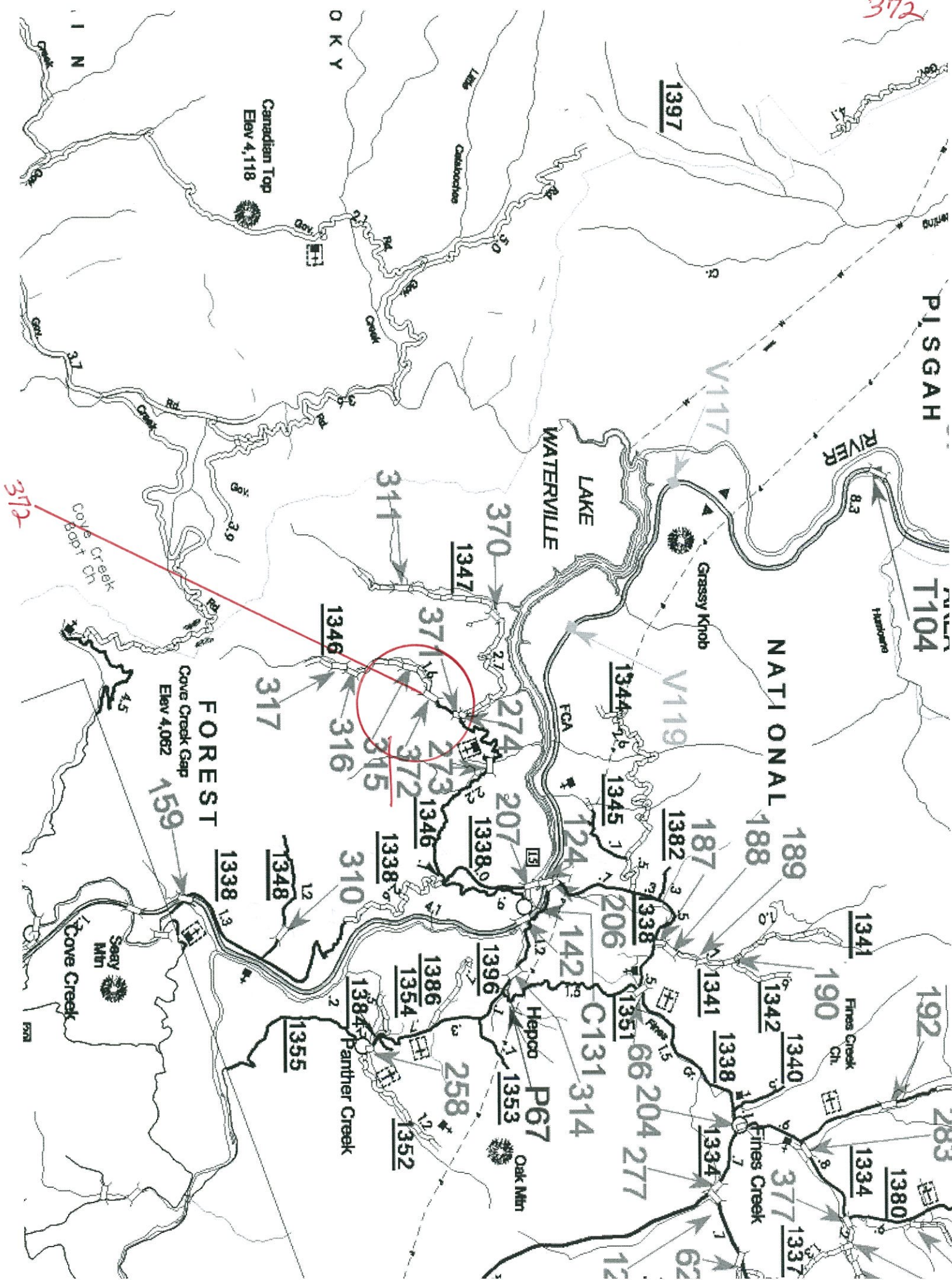
ENVIRONMENTAL

TVA: YESTrout Stream NO Anadromous Fish NO Primary Nursery Area NOHigh Quality Waters NO Nutrient Sensitive Waters NONear Water Supply Intake NO CAMA County NOStream Classification C (#04-03-05)DENR River Basin Info. FRENCH BROADLAT 35-39-41.44 LONG. 83-01-34.16

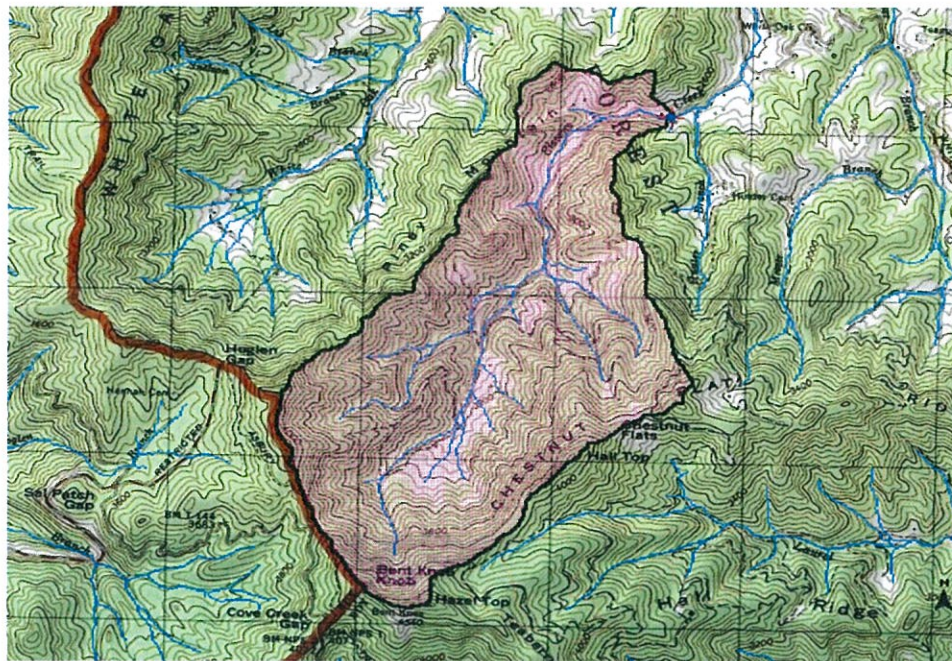
2



232



StreamStats Print Page



0.5 0.25 0 0.5 Miles

Explanation

- ★ GlobalWatershedPoint
- Stp1005Point
- NCDOT Points
- ▲ LocalGages
- ▲ Gaging Station, Continuous Record
- ▲ Low Flow, Partial Record
- ▲ Peak Flow, Partial Record
- ▲ Peak and Low Flow, Partial Record
- ▲ Stage Only
- ▲ Low Flow, Partial Record, Stage
- ▲ Miscellaneous Record
- ▲ Unknown
- LocalNHD2
- LongestFlowpath3D
- Stream Grid
- GlobalWatershed
- Pilot Study Area
- hucpoly

8/27/2013 1:28:29 PM



North Carolina StreamStats

Streamstats Ungaged Site Report

Date: Tue Aug 27 2013 13:28:46 Mountain Daylight Time

Site Location: North_Carolina

NAD27 Latitude: 35.6614 (35 39 41)

NAD27 Longitude: -83.0263 (-83 01 35)

NAD83 Latitude: 35.6615 (35 39 41)

NAD83 Longitude: -83.0262 (-83 01 34)

Drainage Area: 1.42 mi²

Percent Urban: 2.4 %

Percent Impervious: 0.1 %

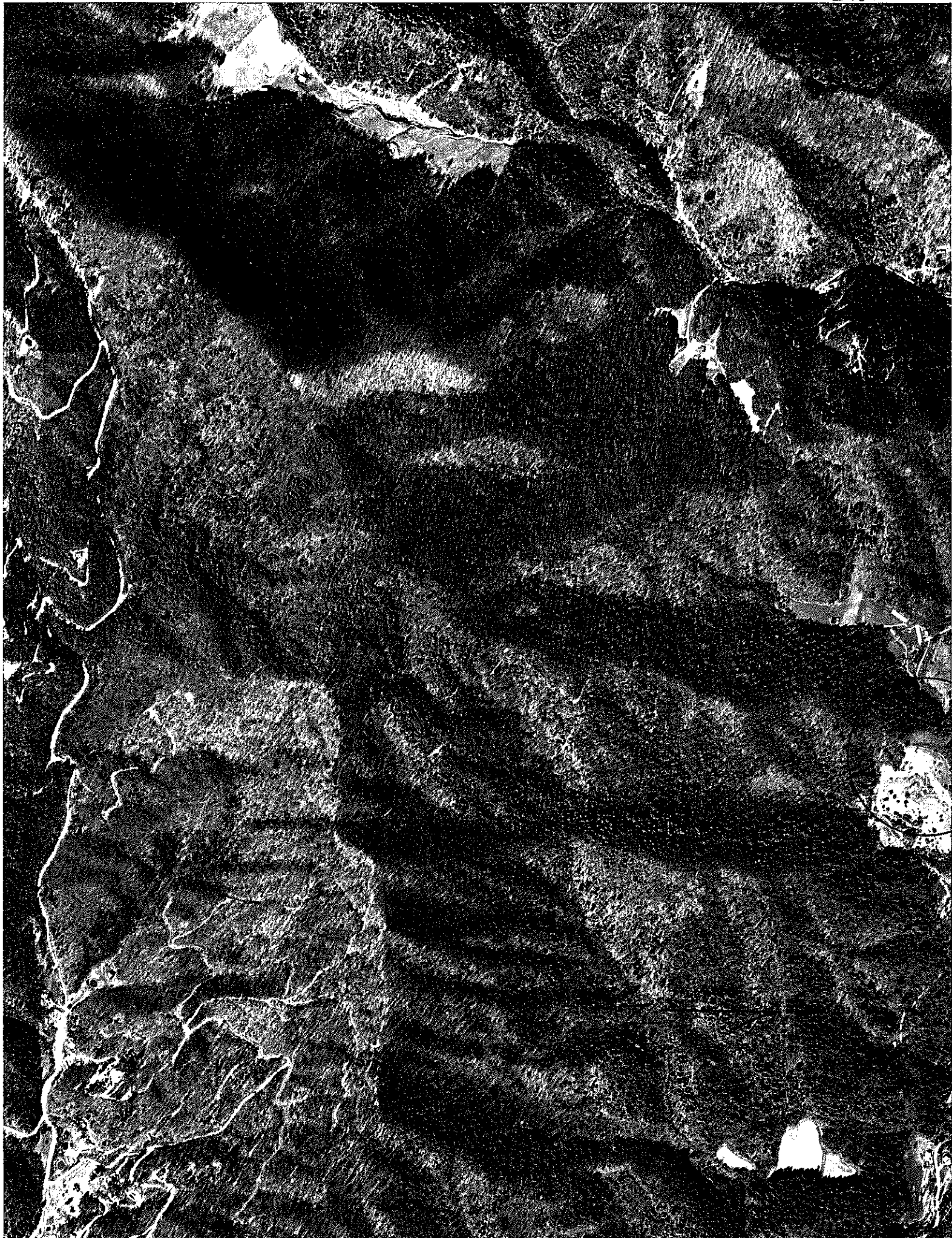
Peak Flows Region Grid Basin Characteristics			
100% Peak Southeast US 2009 5158 (1.42 mi ²)			
Parameter	Value	Regression Equation Valid Range	
		Min	Max
Drainage Area (square miles)	1.42	1	9000
Percent Area in Region 1 (percent)	0.000	0	100
Percent Area in Region 2 (percent)	100.000	0	100
Percent Area in Region 3 (percent)	0.000	0	100
Percent Area in Region 4 (percent)	0.000	0	100
Percent Area in Region 5 (percent)	0.000	0	100

Urban Flows Region Grid Basin Characteristics			
100% Peak urban Blue Ridge-Piedmont FS007-00 (1.42 mi ²)			
Parameter	Value	Regression Equation Valid Range	
		Min	Max
Drainage Area (square miles)	1.42	0.04	41
Area of Impervious Surfaces (percent)	0.06 (below min value 2)	2	54.6

Warning: Some parameters are outside the suggested range. Estimates will be extrapolations with unknown errors.

Peak Flows Region Grid Streamflow Statistics					
Statistic	Flow (ft ³ /s)	Prediction Error (percent)	Equivalent years of record	90-Percent Prediction Interval	
				Minimum	Maximum
PK2	144	35		81.6	254
PK5	272	34		155	477
PK10	373	35		209	667
PK25	513	38		276	953
PK50	616	40		320	1180
PK100	739	42		371	1470
PK200	847	44		410	1750
PK500	1020	48		468	2210

Urban Flows Region Grid Streamflow Statistics					
Statistic	Flow (ft ³ /s)	Standard Error (percent)	Equivalent years of record	90-Percent Prediction Interval	
				Minimum	Maximum
PK2U	6.26				
PK5U	20				
PK10U	36				
PK25U	82.8				
PK50U	120				
PK100U	168				





NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
BRIDGE MANAGEMENT UNIT

ATTENTION

TEMP. REPAIR - POST 1 AT BOTH ABUTMENTS HAVE
BEEN SUPPLEMENTED SOMETIME IN THE PAST.

BRIDGE INSPECTION REPORT

INSPECTION TYPE: Routine Inspection

COUNTY HAYWOOD BRIDGE NUMBER 430372 INSPECTION CYCLE 2 YRS
ROUTE SR1346 ACROSS STEPHENS CREEK M.P. 0

LOCATION 0.3 MI.S.JCT.SR1347

SUPERSTRUCTURE TIMBER FLOOR ON TIMBER JOISTS

SUBSTRUCTURE E.BTS:TIMBER CAPS/TIMBER POST&SILLS @ 8' CENTERS

SPANS 1 @ 20'-6

LONGITUDE 83° 1' 33.5"

LATITUDE 35° 39' 42.2"

PRESENT CONDITION FAIR

INVENTORY RATING

INSPECTION DATE 03/14/2011

OPERATING RATING

PRESENT POSTING Not Posted

PROPOSED POSTING

COMPUTER UPDATE

ANALYSIS DATE

POSTING LETTER DATE

SUFFICIENCY RATING

OTHER SIGNS PRESENT DELINEATORS [4] AND ONE LANE BRIDGE [2]



LOOKING NORTH

SIGN NOTICE
ISSUED FOR

NUMBERED
REQUIRED

No

WEIGHT LIMIT

No

DELINEATORS

No

NARROW BRIDGE

No

ONE LANE BRIDGE

No

LOW CLEARANCE

BRIDGE MANAGEMENT UNIT
DATA ON EXISTING STRUCTURE

Run Date: 04/18/2011

COUNTY : HAYWOOD		DIV : 14		DIST : 2		STRUCTURE NUMBER : 430372		LENGTH : 21 FEET	
ROUTE CARRIED : SR1346				FEATURE INTERSECTED : STEPHENS CREEK					
LOCATED : 0.3 MI.S.JCT.SR1347				BRIDGE NAME :			CITY :		
FUNC. CLASS : 09		SYST.ON : NFA		SYST.UNDER : NFA		ADT & YR : 220 2000		RAIL TYPE : LT 227 RT 227	
BUILT : 1963		BY : BMU		PROJ :		FED.AID PROJ :		DESIGN LOAD : Other or Unknown	
REHAB :		BY : BMU		PROJ : 5.9451		ALIGNMENT : TAN		SKEW : 45	
								LANES : ON 2 UNDER	
NAVIGATION : VC 0.0 FT HC 0.0 FT				HT. CRN. TO BED : 7 FT				WATER DEPTH : 1 FT	
SUPERSTRUCTURE : TIMBER FLOOR ON TIMBER JOISTS									
SUBSTRUCTURE : E.BTS:TIMBER CAPS/TIMBER POST&SILLS @ 8' CENTERS									
SPANS : 1 @ 20'-6									
BEAMS OR GIRDERS : 18 LINES 6X14 TIMBER JOISTS @ 1' CENTERS									
FLOOR : 4X8 TIM/4 AWS		ENCROACHMENT :				DECK (OUT TO OUT) : 19.0 FT			
CLEAR ROADWAY : 18.0 FT		BETWEEN RAILS : 18.8 FT				SIDEWALK OR CURB : LT 0.4 FT RT 0.4 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 : int jost		POSTED : SV		TTST DATE 09/24/2001	
SYSTEM : Secondary S.R. Route						GREEN LINE ROUTE : N			
2ND OPENING :		3RD OPENING :		4TH OPENING :		5TH OPENING :			
REMARKS :									

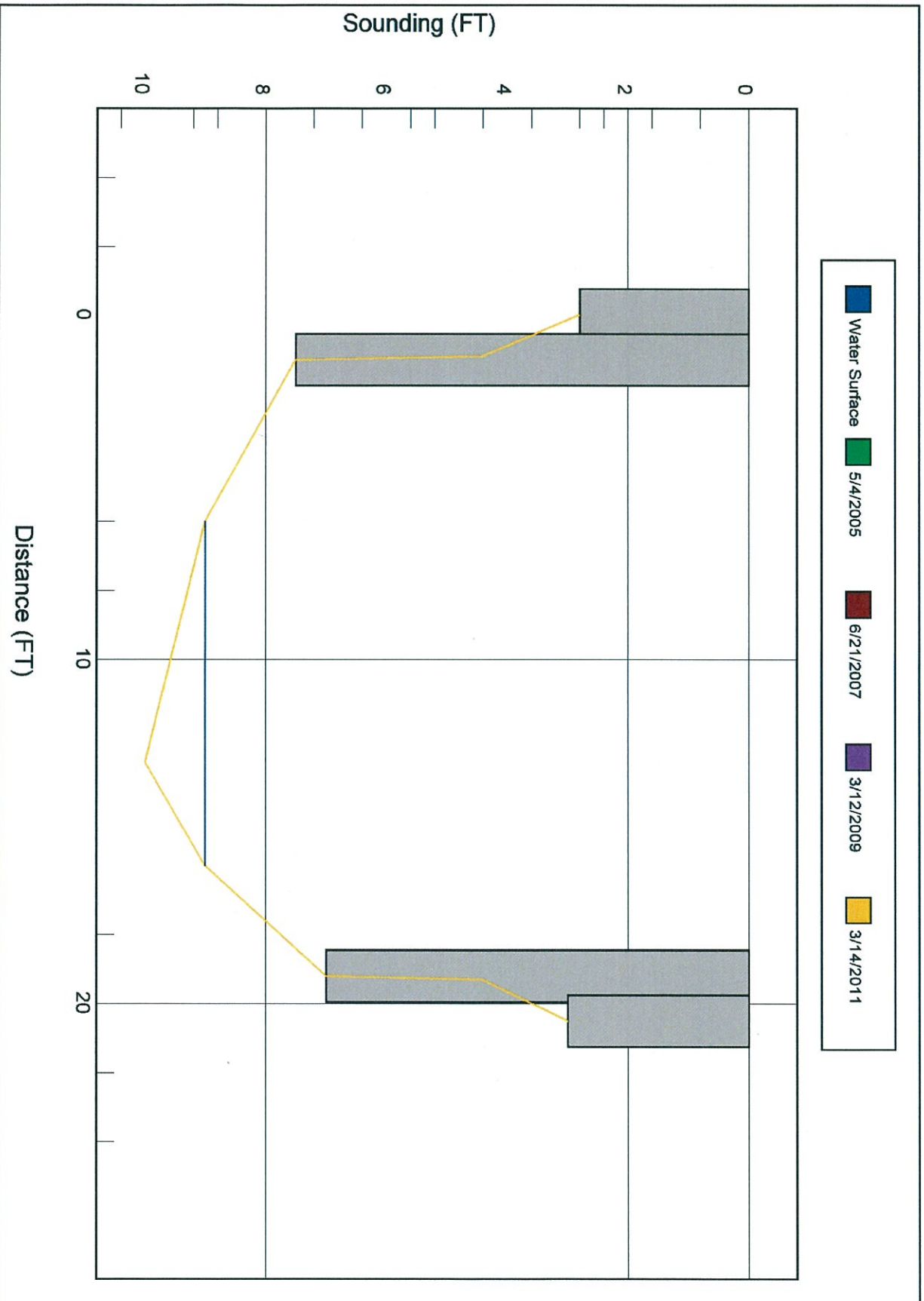
Bridge: 430372

County: HAYWOOD

Date: 03/14/2011

Top of Rail = 0 FT (Sounding)

STREAMBED PROFILE (Downstream)



Structure 430372

County HAYWOOD

Date: 03/14/2011

Structure Photos



UPSTREAM



ABUTMENT 2 - TEMP. REPAIR TO POST 1.