

OFFICE ESTIMATE

1@ 40' Bridge

Project# _____

TIP# _____

Let Date _____

PREDESIGN-PRESURVEY REPORT

WBS# 17BP.14.93County HAYWOOD (DIV.14)Bridge# 430334Road# SR 1212Stream JOHNSON BRANCH
(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: NONE! CO. FILE: NOStudy By Scour Section NONEFlood Zone X Detail Study NONE Date — Panel# 7686B.M. Info N/A 600 acresQuad Map _____ Drainage Area 0.94 SQ Mi From STREAM STATSQ25 = 380 cfs Q50 = 500 cfs Q100 = 600 cfs Method RURAL HC=7.0
NCDOT CHARTS 200.1
200.2

EXISTING BRIDGE INFORMATION

Location 0.3 MI. E. JCT. SR 1213Average Daily Traffic 360 (2000) 6% TRKLength 17' Bed- To Crown 6' Water Depth 1'Type Structure TIMBER FLR ON TIM. JOIST., E. BTS TIMBER CAPS, POST, SILLSType Spans 1c 16' 6"Upstream Structure NONE

Location _____

Bed- To Crown _____ Prior Survey _____

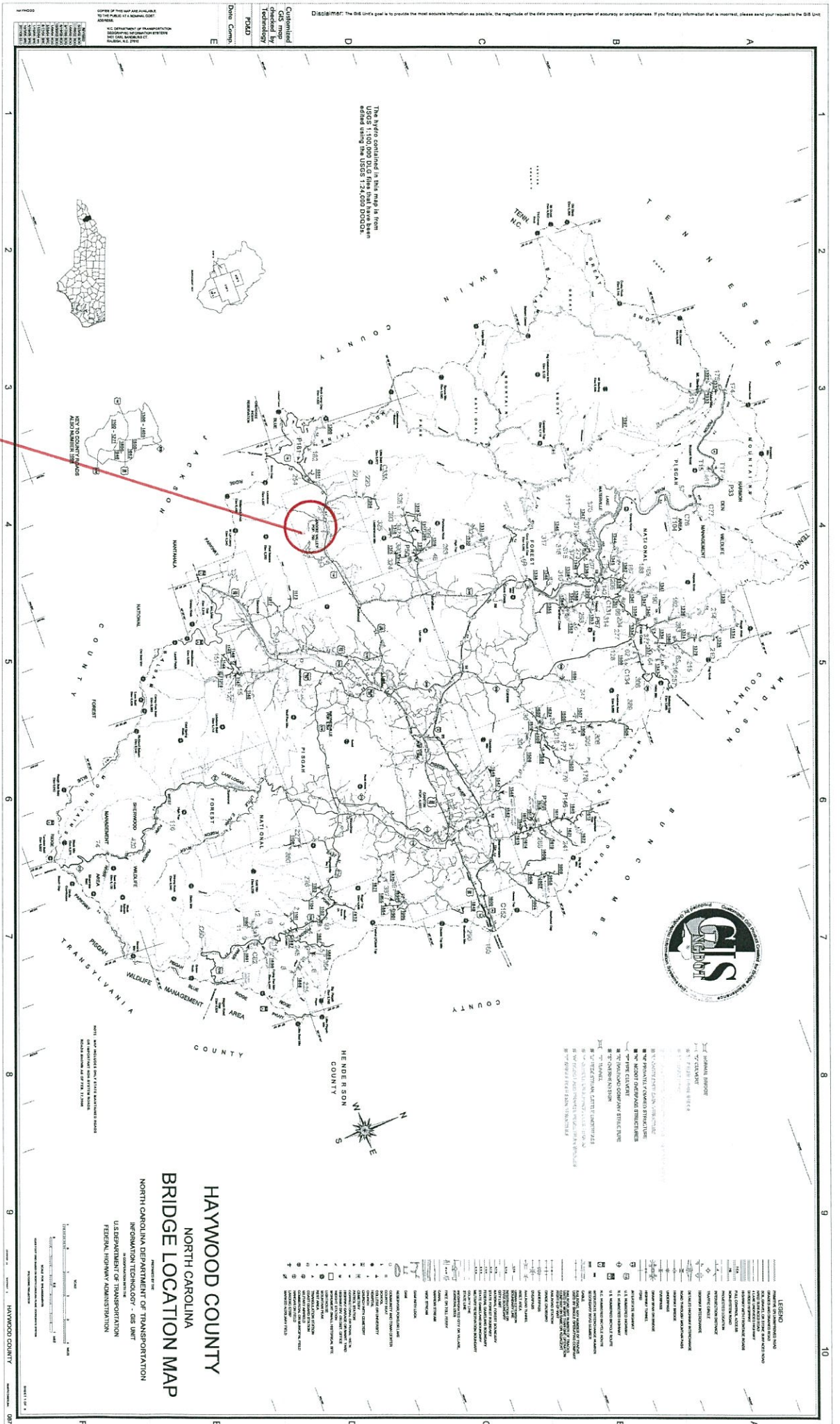
Downstream Structure 68 L=37' BRG 1c 36' 9"Location 25' N. JCT. SR 122Bed- To Crown 13' (H2O = 1' deep) Prior Survey _____

SCS Watershed _____

ENVIRONMENTAL

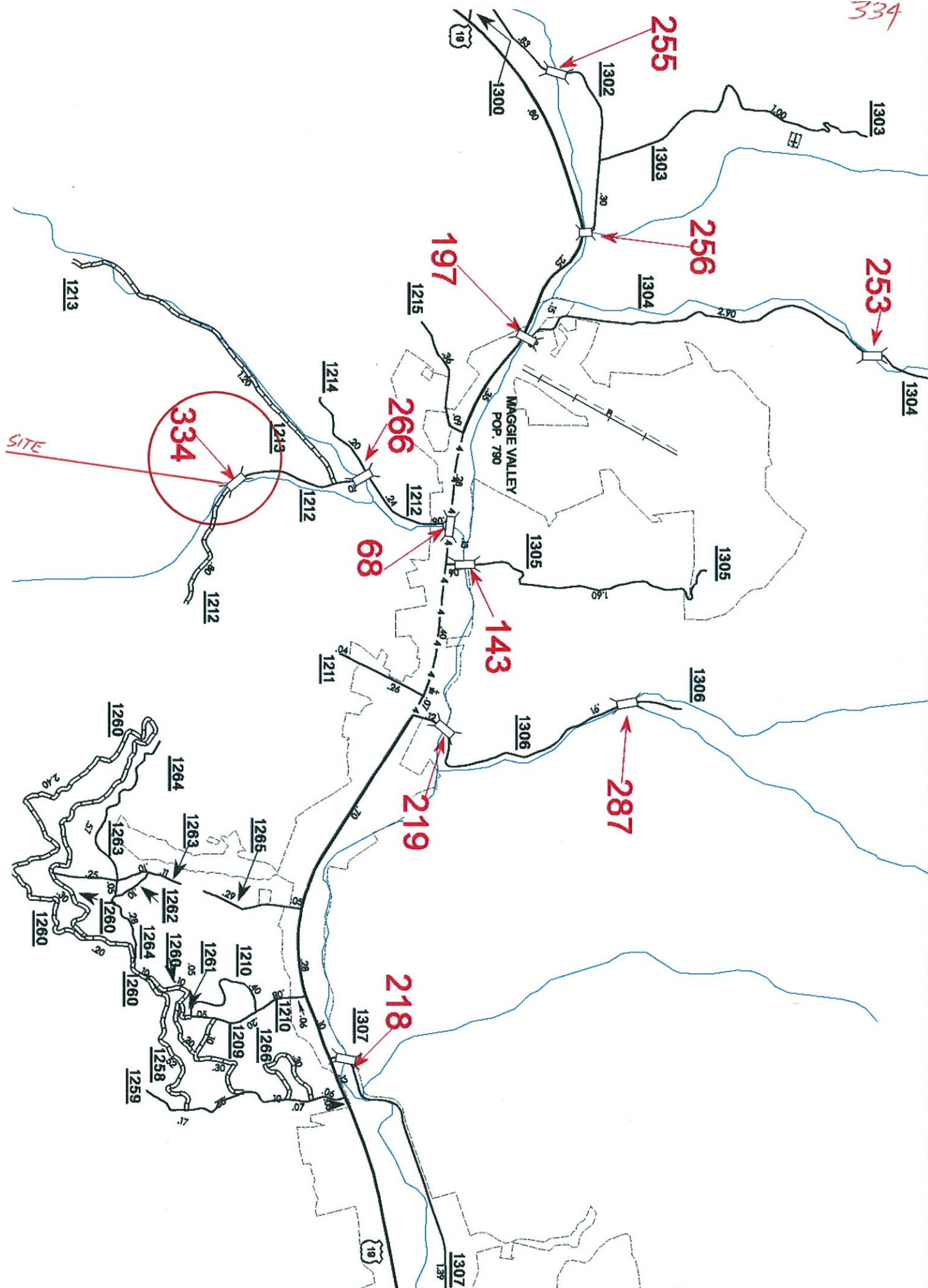
TVA: YES ✓

Trout Stream YES Anadromous Fish NO Primary Nursery Area NOHigh Quality Waters NO Nutrient Sensitive Waters NONear Water Supply Intake NO CAMA County NO ✓Stream Classification WS III, Tr, CADENR River Basin Info. FRENCH BROAD5-26-8-3-(2) (From Pt.
0.6 MI U/S OF MOUTH TO
CAMPBELL CRK.)LAT. 35/30/2 9.91LONG. 8305 5829



X
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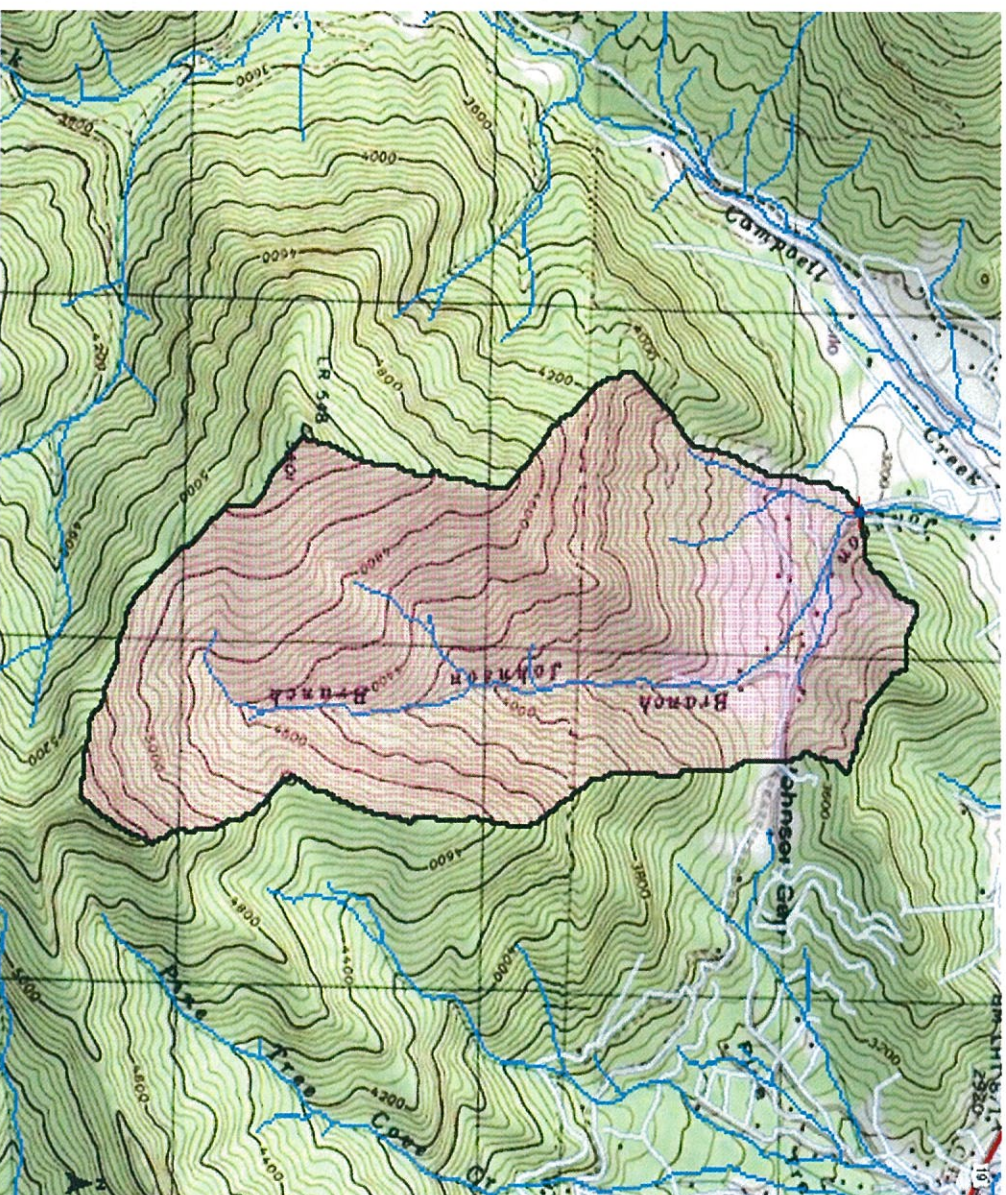
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StreamStats Print Page



- Explanation**
- ★ Global Watershed Point
 - SLP1086P Point
 - NCDOT Point
 - ▲ Localities
 - ▲ Gauging 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
 - ▲ LocalHID2
 - ▲ Longest ImpathSD
 - ▲ Stream Grid
 - ▲ Global Watershed
 - ▲ Pilot Study Area
 - Inupoly



North Carolina StreamStats

Streamstats Ungaged Site Report

Date: Tue Aug 27 2013 08:47:47 M ountain Daylight Time

Site Location: North_Carolina

NAD27 Latitude: 35.5082 (35 30 30)

NAD27 Longitude: -83.0996 (-83 05 59)

NAD83 Latitude: 35.5084 (35 30 30)

NAD83 Longitude: -83.0995 (-83 05 58)

Drainage Area: 0.94 mi²

Percent Urban: 1.1 %

Percent Impervious: 0.0 %

Peak Flows Region Grid Basin Characteristics			
100% Peak Southeast US 2009 5158 (0.94 mi ²)			
Parameter	Value	Regression Equation Valid Range	
		Min	Max
Drainage Area (square miles)	0.94 (below min value 1)	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

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

Urban Flows Region Grid Basin Characteristics			
100% Peak urban Blue Ridge-Piedmont FS007-00 (0.94 mi ²)			
Parameter	Value	Regression Equation Valid Range	
		Min	Max
Drainage Area (square miles)	0.94	0.04	41
Area of Impervious Surfaces (percent)	0.04 (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	104				
PK5	199				
PK10	276				
PK25	381				
PK50	458				
PK100	551				
PK200	632				
PK500	760				

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	3.5				
PK5U	12				
PK10U	22.3				
PK25U	54				
PK50U	79.7				
PK100U	114				

[illegible][illegible]

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Sources used are by further detailed methods

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UNIVERSITY OF CALIFORNIA, BERKELEY
1-800-438-0849 <http://www.berkeley.edu>

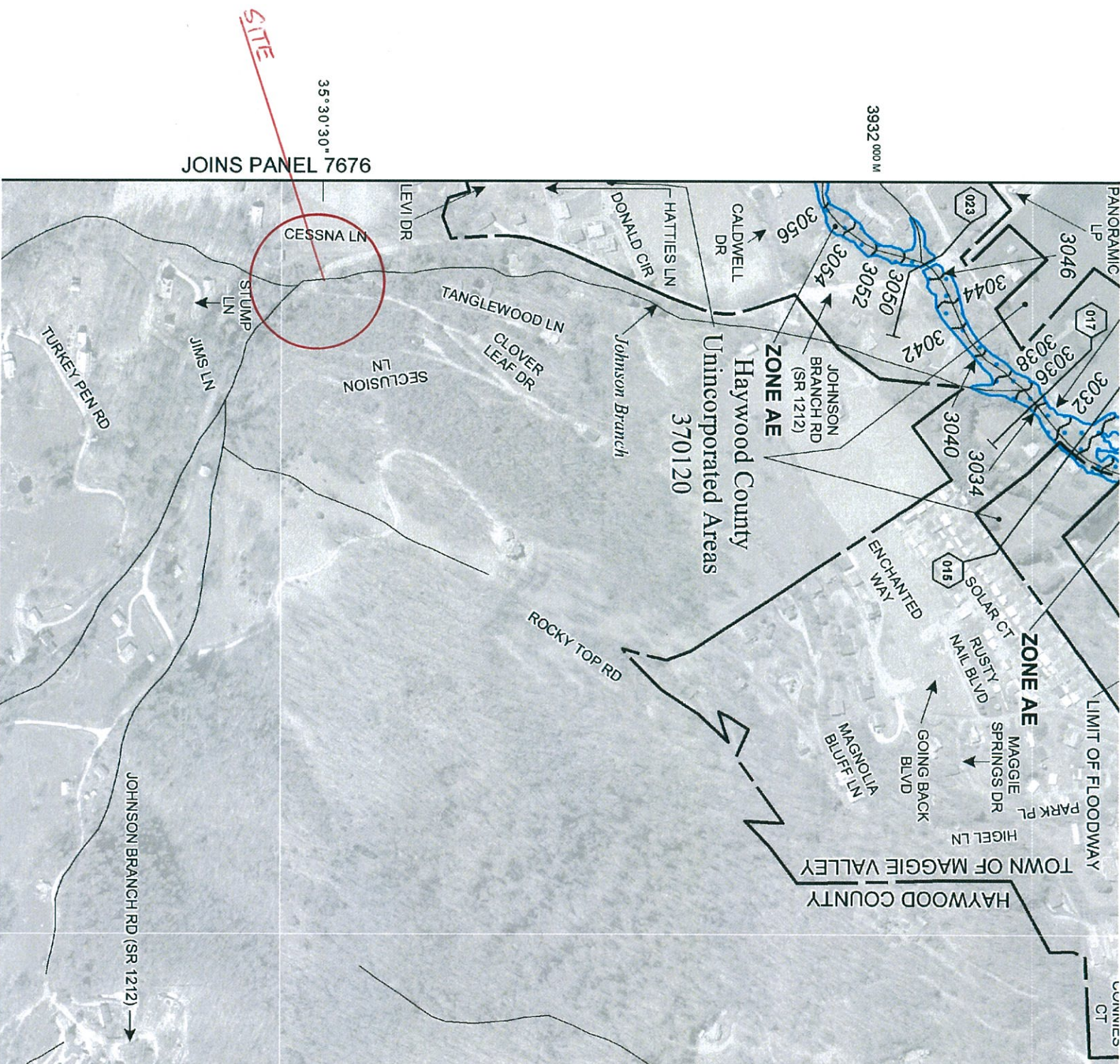


State of North Carolina
Federal Emergency Management Agency and American

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NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
BRIDGE MANAGEMENT UNIT

ATTENTION

PRI. MAINT. ISSUED.
TEMP. REPAIR - SUPPLEMENTED ABUTMENT POST.

BRIDGE INSPECTION REPORT

INSPECTION TYPE: Routine Inspection

COUNTY HAYWOOD BRIDGE NUMBER 430334 INSPECTION CYCLE 2 YRS
ROUTE SR1212 ACROSS CREEK M.P. 0

LOCATION .3 MI.E.JCT.SR1213

SUPERSTRUCTURE TIMBER FLOOR ON TIMBER JOISTS

SUBSTRUCTURE E.BTS: TIMBER CAPS/TIMBER POST & SILLS @ 5'-10 CENTERS

SPANS 1 @ 16'-6

LONGITUDE 83° 5' 57.0"

LATITUDE 35° 30' 27.8"

PRESENT CONDITION FAIR

INVENTORY RATING

INSPECTION DATE 04/11/2011

OPERATING RATING

PRESENT POSTING Not Posted

PROPOSED POSTING

COMPUTER UPDATE

ANALYSIS DATE

POSTING LETTER DATE

SUFFICIENCY RATING

OTHER SIGNS PRESENT DELINEATORS [4]



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>

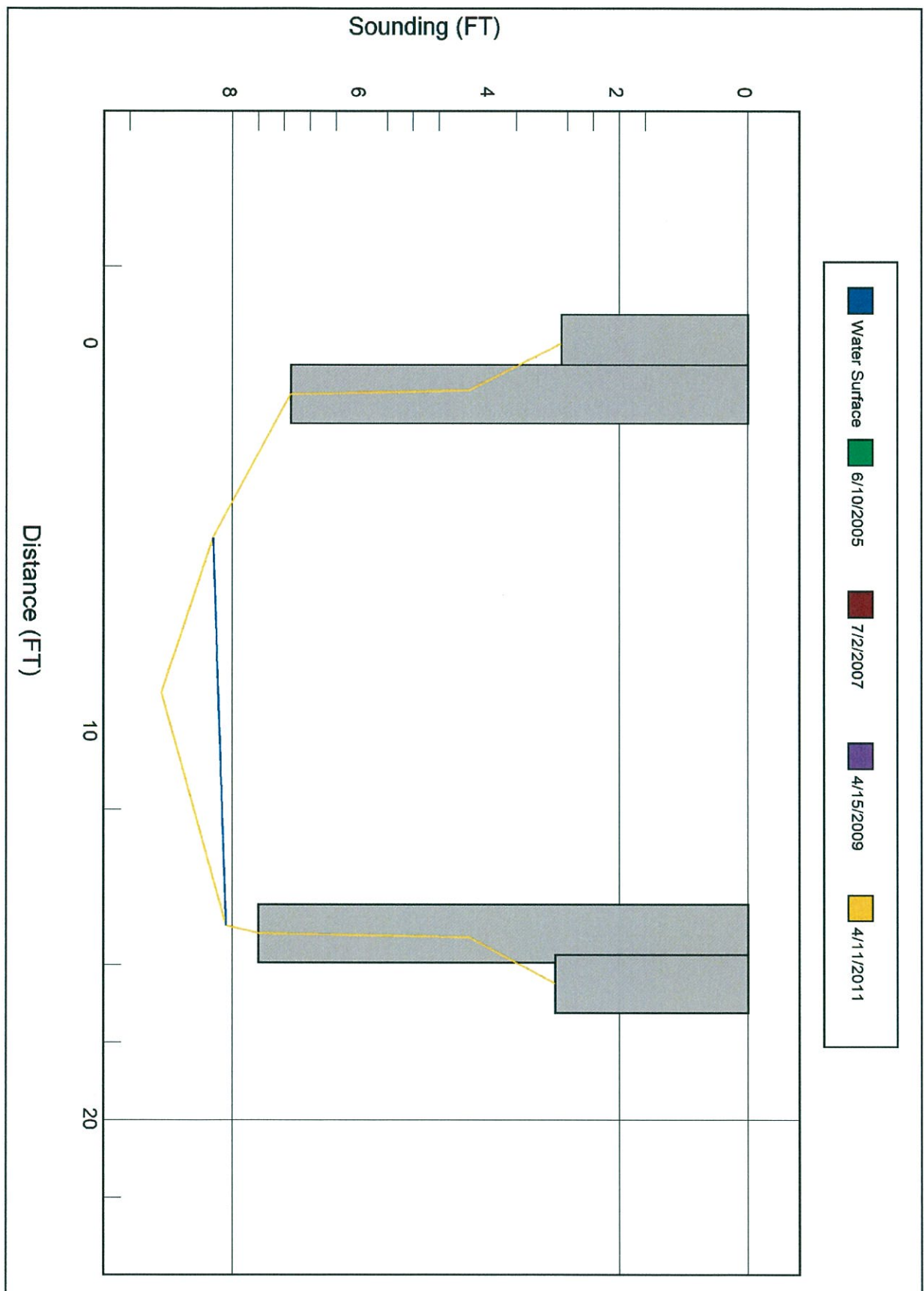
BRIDGE MANAGEMENT UNIT
DATA ON EXISTING STRUCTURE

Run Date: 05/18/2011

COUNTY : HAYWOOD		DIV : 14		DIST : 2		STRUCTURE NUMBER : 430334		LENGTH : 17 FEET	
ROUTE CARRIED : SR1212				FEATURE INTERSECTED : CREEK					
LOCATED : .3 MI.E.JCT.SR1213				BRIDGE NAME :				CITY :	
FUNC. CLASS : 09		SYST.ON : NFA		SYST.UNDER : NFA		ADT & YR : 360 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 : 50	
								LANES : ON 2 UNDER	
NAVIGATION : VC 0.0 FT HC 0.0 FT				HT. CRN. TO BED : 6 FT				WATER DEPTH : 1 FT	
SUPERSTRUCTURE : TIMBER FLOOR ON TIMBER JOISTS									
SUBSTRUCTURE : E.BTS: TIMBER CAPS/TIMBER POST & SILLS @ 5'-10 CENTERS									
SPANS : 1 @ 16'-6									
BEAMS OR GIRDERS : 16 LINES 6X12 TIMBER JOISTS @ 1'-2 CENTERS									
FLOOR : 4X8 TIM/1.5 AWS		ENCROACHMENT :				DECK (OUT TO OUT) : 19.5 FT			
CLEAR ROADWAY : 18.5 FT		BETWEEN RAILS : 19.3 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.Joist		POSTED : SV		TTST DATE 04/18/1996	
SYSTEM : Secondary S.R. Route						GREEN LINE ROUTE : N			
2ND OPENING :		3RD OPENING :		4TH OPENING :		5TH OPENING :			
REMARKS :									

Top of Rail = 0 FT (Sounding)

STREAMBED PROFILE (Downstream)





LOOKING EAST



UPSTREAM