

NOTE FOUND: MIN. BRG 40

Hw/D - 1.2 - 137" x 87"
142" x 91" (Buried)

PREDESIGN-PRESURVEY REPORT

County CALDWELL (DIV. II)

Project# _____
TIP# _____
Let Date _____
WBS# _____

Bridge# 130.123 (OLD JOHN'S)
Road# SR 1356 (RIVER ROAD)
Stream (ELIJAH) ESTES MILL CRK.

Type Of Request: POC Force Account TIP NCMA

Date 2/26/14 Name WSH Assigned To MTS
Checked By _____

Prior Survey Date NONE (attach copy of prior survey) BRN. BK. NONE CO. FILE NONE

Study By Scour Section NONE
Flood Zone AE Detail Study NO Date 7/7/08 Panel# 1891 ☐
B.M. Info N/A

Quad Map COLLETTVILLE Drainage Area 1.9 Sq. Mi. From STREAM STATS
Q25 650 cfs Q50 750 cfs Q100 900 cfs Method RURAL - REGION 2
REG. EQU.

EXISTING BRIDGE INFORMATION

Location 2.6 M. S.W. Jct NC 90
Average Daily Traffic 100 (2000) TRK: 6%
Length L=26 Bed- To Crown 8' Water Depth 2'
Type Structure TIMBER FLR ON I-BEAMS, TIMBER E.BTS, CAPS, POST, SILLS
Type Spans 1 @ 25' 10"
Upstream Structure NO NUMBERED STRUCTURES

Location N/A
Bed- To Crown — Prior Survey — (LOW H2O TYPE)
Downstream Structure JOHN'S RIVER (130240) ON SR 1356 TIMBER FLR ON IBEAMS
Location SR 1356 (2.9 M N. Jct NC 90) ABUT. PIER REINFORCED
Bed- To Crown 9' (4' DEEP) Prior Survey — CONC.
SCS Watershed — N/A (SPRNG 2 @ 31')

ENVIRONMENTAL

Trout Stream YES Anadromous Fish NO Primary Nursery Area NO TVA: NO
High Quality Waters NO Nutrient Sensitive Waters NO
Near Water Supply Intake NO CAMA County NO
Stream Classification B # 11-38-27 (FROM SOURCE TO)
DENR River Basin Info. CATAWBA (JOHN'S RIVER)

SCOPING SURVEY:

COUNTY: CALDWELL

BRIDGE #: 130 123

DATE:

SURVEYED BY:

OVERALL BRIDGE LENGTH =

BRIDGE OPENING LENGTH =

CLEAR ROADWAY WIDTH =

Top of Rail to Bed HEIGHT =

Top of Rail to Seat HEIGHT =

RAIL HEIGHT =

NORMAL WATER DEPTH =

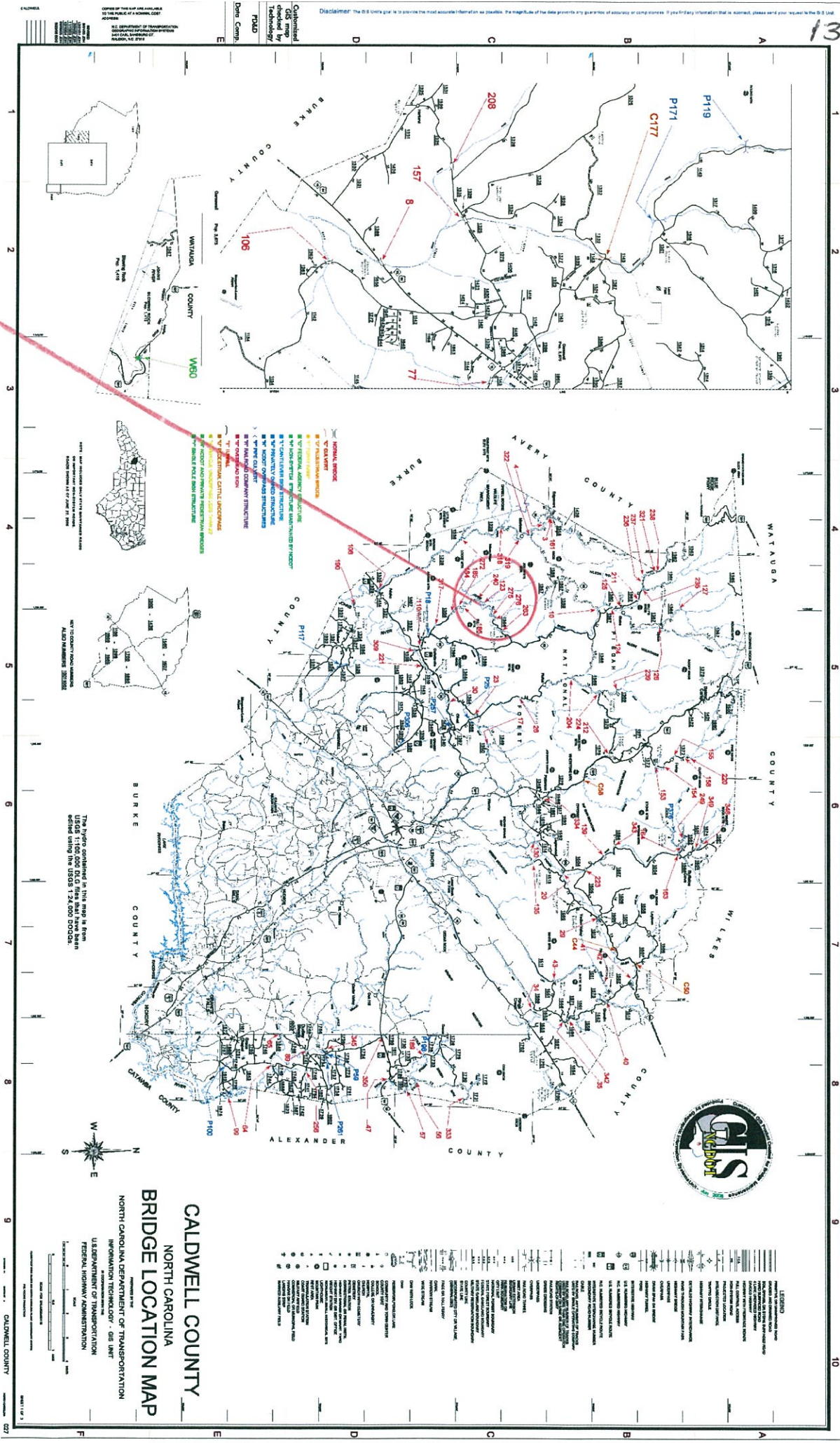
STREAM WIDTH (Water's Edge to Water's Edge) =

STREAM WIDTH (Top of Bank to Top of Bank) =

Top of Bank to Low Steel HEIGHT (LEFT) =

Top of Bank to Low Steel HEIGHT (RIGHT) =

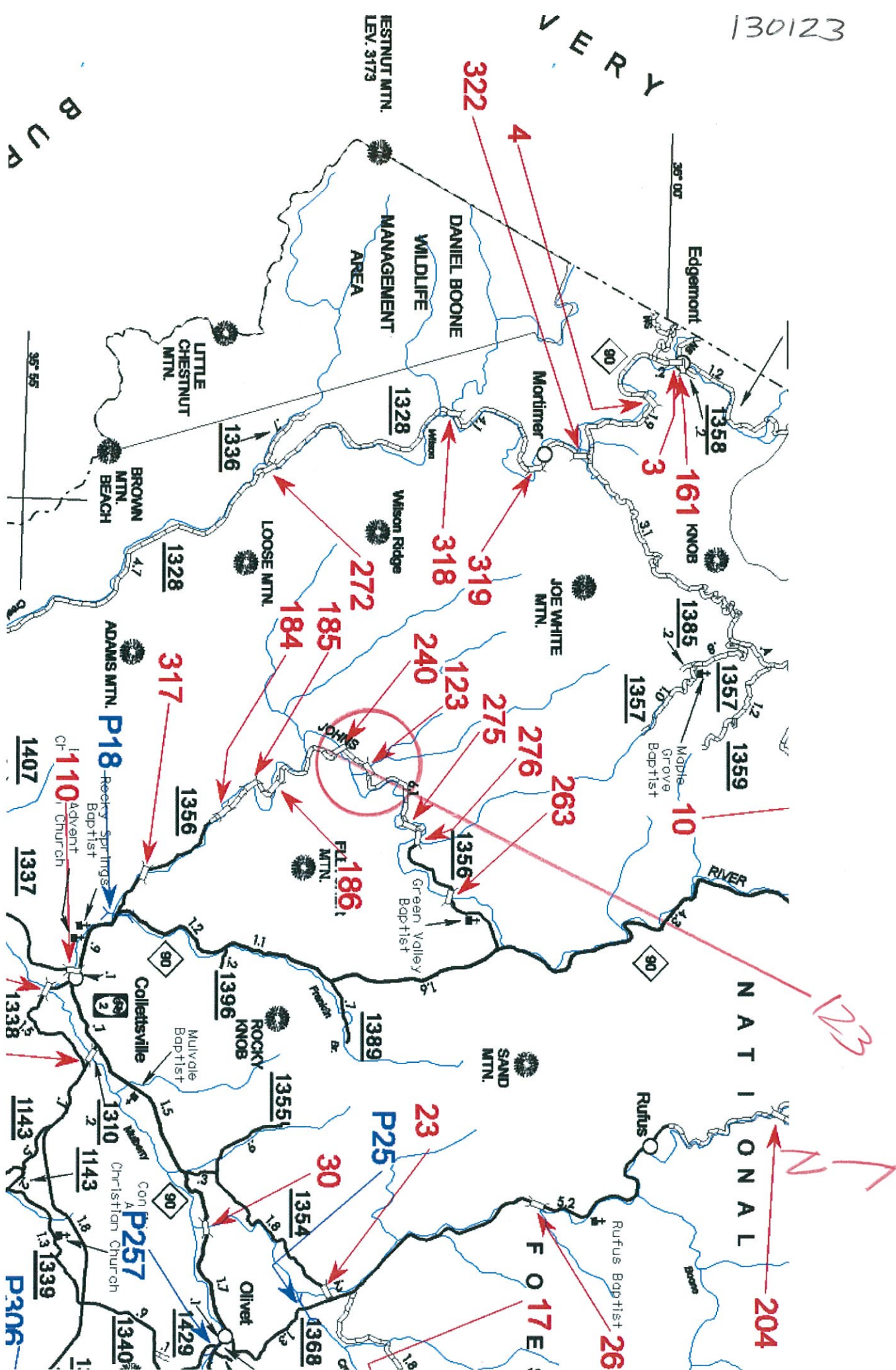
130123



SITE

CALDWELL COUNTY
NORTH CAROLINA
BRIDGE LOCATION MAP
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
INFORMATION TECHNOLOGY - GIS UNIT
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
1:25,000
1998

VERY





130123



North Carolina StreamStats

Streamstats Ungaged Site Report

Date: Thu Feb 27 2014 05:14:00 Mountain Standard Time

Site Location: North Carolina

NAD27 Latitude: 35.9627 (35 57 46)

NAD27 Longitude: -81.7087 (-81 42 31)

NAD83 Latitude: 35.9628 (35 57 46)

NAD83 Longitude: -81.7085 (-81 42 31)

Drainage Area: 1.94 mi²

Percent Urban: 0.3 %

Percent Impervious: 0.0 %

Peak Flows Region Grid Basin Characteristics			
100% Peak Southeast US 2009 5158 (1.94 mi ²)			
Parameter	Value	Regression Equation Valid Range	
		Min	Max
Drainage Area (square miles)	1.94	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 (1.94 mi ²)			
Parameter	Value	Regression Equation Valid Range	
		Min	Max
Drainage Area (square miles)	1.94	0.04	41
Area of Impervious Surfaces (percent)	0.00 (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	184	35		104	324
PK5	343	34		196	601
PK10	470	35		263	838
PK25	643	38		347	1190
PK50	770	40		402	1480
PK100	923	42		465	1830
PK200	1060	44		513	2180
PK500	1270	48		585	2740

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	0				
PK5U	0				
PK10U	0				
PK25U	0				
PK50U	0				
PK100U	0				

[illegible]

At various times in the Flood Hazard Data Table below we indicated by the letters "A" through "E" that certain flood studies were in progress. We are now informing the public that these studies have been completed and some of the resulting information is included herein. The information is being included in this Flood Hazard Data Table to provide the public with the most accurate information available.

FLOOD HAZARD DATA TABLE				
City or Location	Project Name(s)	Date of Study	Study Type	Study Status
JOHNSTOWN				
561	54255	NA	1-A, C, D	2-A
565	54263	NA	1-B, C	4-B1

The above study location(s) are:






This digital flood insurance Rate Map (FIRM) was produced through a unique cooperative partnership between the State of North Carolina and the Federal Emergency Management Agency (FEMA). The State of North Carolina has implemented a long term approach of floodplain management to decrease the damage to property and lives caused by flooding. The State of North Carolina has joined in a Cooperative Technical State agreement with FEMA to produce and maintain the digital FIRM.

www.ncfloodmaps.com

[illegible]

2006 A 2006 B 2006 C 2006 D 2006 E 2006 F 2006 G 2006 H 2006 I 2006 J 2006 K 2006 L 2006 M 2006 N 2006 O 2006 P 2006 Q 2006 R 2006 S 2006 T 2006 U 2006 V 2006 W 2006 X 2006 Y 2006 Z 2006 AA 2006 AB 2006 AC 2006 AD 2006 AE 2006 AF 2006 AG 2006 AH 2006 AI 2006 AJ 2006 AK 2006 AL 2006 AM 2006 AN 2006 AO 2006 AP 2006 AQ 2006 AR 2006 AS 2006 AT 2006 AU 2006 AV 2006 AW 2006 AX 2006 AY 2006 AZ 2006 BA 2006 BB 2006 BC 2006 BD 2006 BE 2006 BF 2006 BG 2006 BH 2006 BI 2006 BJ 2006 BK 2006 BL 2006 BM 2006 BN 2006 BO 2006 BP 2006 BQ 2006 BR 2006 BS 2006 BT 2006 BU 2006 BV 2006 BW 2006 BX 2006 BY 2006 BZ 2006 CA 2006 CB 2006 CC 2006 CD 2006 CE 2006 CF 2006 CG 2006 CH 2006 CI 2006 CJ 2006 CK 2006 CL 2006 CM 2006 CN 2006 CO 2006 CP 2006 CQ 2006 CR 2006 CS 2006 CT 2006 CU 2006 CV 2006 CW 2006 CX 2006 CY 2006 CZ 2006 DA 2006 DB 2006 DC 2006 DD 2006 DE 2006 DF 2006 DG 2006 DH 2006 DI 2006 DJ 2006 DK 2006 DL 2006 DM 2006 DN 2006 DO 2006 DP 2006 DQ 2006 DR 2006 DS 2006 DT 2006 DU 2006 DV 2006 DW 2006 DX 2006 DY 2006 DZ 2006 EA 2006 EB 2006 EC 2006 ED 2006 EE 2006 EF 2006 EG 2006 EH 2006 EI 2006 EJ 2006 EK 2006 EL 2006 EM 2006 EN 2006 EO 2006 EP 2006 EQ 2006 ER 2006 ES 2006 ET 2006 EU 2006 EV 2006 EW 2006 EX 2006 EY 2006 EZ 2006 FA 2006 FB 2006 FC 2006 FD 2006 FE 2006 FF 2006 FG 2006 FH 2006 FI 2006 FJ 2006 FK 2006 FL 2006 FM 2006 FO 2006 FP 2006 FQ 2006 FR 2006 FS 2006 FT 2006 FU 2006 FV 2006 FW 2006 FX 2006 FY 2006 FZ 2006 GA 2006 GB 2006 GC 2006 GD 2006 GE 2006 GF 2006 GG 2006 GH 2006 GI 2006 GJ 2006 GK 2006 GL 2006 GM 2006 GN 2006 GO 2006 GP 2006 GQ 2006 GR 2006 GS 2006 GT 2006 GU 2006 GV 2006 GW 2006 GX 2006 GY 2006 GZ 2006 HA 2006 HB 2006 HC 2006 HD 2006 HE 2006 HF 2006 HG 2006 HH 2006 HI 2006 HJ 2006 HK 2006 HL 2006 HM 2006 HN 2006 HO 2006 HP 2006 HQ 2006 HR 2006 HS 2006 HT 2006 HU 2006 HV 2006 HW 2006 HX 2006 HY 2006 HZ 2006 IA 2006 IB 2006 IC 2006 ID 2006 IE 2006 IF 2006 IG 2006 IH 2006 II 2006 IJ 2006 IK 2006 IL 2006 IM 2006 IN 2006 IO 2006 IP 2006 IQ 2006 IR 2006 IS 2006 IT 2006 IU 2006 IV 2006 IW 2006 IX 2006 IY 2006 IZ 2006 JA 2006 JB 2006 JC 2006 JD 2006 JE 2006 JF 2006 JG 2006 JH 2006 JI 2006 JJ 2006 JK 2006 JL 2006 JM 2006 JN 2006 JO 2006 JP 2006 JQ 2006 JR 2006 JS 2006 JT 2006 JU 2006 JV 2006 JW 2006 JX 2006 JY 2006 JZ 2006 KA 2006 KB 2006 KC 2006 KD 2006 KE 2006 KF 2006 KG 2006 KH 2006 KI 2006 KJ 2006 KK 2006 KL 2006 KM 2006 KN 2006 KO 2006 KP 2006 KQ 2006 KR 2006 KS 2006 KT 2006 KU 2006 KV 2006 KW 2006 KX 2006 KY</

[illegible]



	ZONE A	No Base Flood
	ZONE AE	Base Flood
	ZONE AH	Flood depth Elevations d
	ZONE AO	Flood depth average dete
	ZONE AR	Special Flo
	ZONE VE	Chance flo declassified, being resto greater flood Area to be flood prote Coastal flood determined.
	FLOODWAY	The floodway is the channel kept free of encroachment substantial increases in flow
	ZONE X	OTHER FLOOD Areas of 0.1 with average 1 square m flood.
	ZONE D	OTHER AREAS Areas determin Areas in which l
	COASTAL E	
	OTHER RMs	CBS areas and OPAs are n
		*Referenced to the North American Datum of 1987
	(19)	
	(23)	
	97.07'±0.30'	
	4276.000 M	
	1 477.500 FEET	
	BM5510	



NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
BRIDGE MANAGEMENT UNIT

ATTENTION TEMP. REPAIR

BRIDGE INSPECTION REPORT

INSPECTION TYPE: Routine Inspection

COUNTY CALDWELL

BRIDGE NUMBER 130123

INSPECTION CYCLE 2 YRS

ROUTE SR1356

ACROSS ESTES MILL CREEK

M.P. 0

LOCATION 2.6 MI. SW JCT. NC90

SUPERSTRUCTURE TIMBER FLOOR ON I-BEAMS

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

SPANS 1 @ 25'10"

LONGITUDE 81° 42' 24.2"

81.70672

LATITUDE 35° 57' 54.8"

35.96522

PRESENT CONDITION FAIR

INVENTORY RATING

(COORD. OFF 0.2 MILES)?

INSPECTION DATE 02/04/2010

OPERATING RATING

PRESENT POSTING SV 20 TTST 25

SV 19 TTST 25

PROPOSED POSTING

COMPUTER UPDATE

ANALYSIS DATE

POSTING LETTER DATE

SUFFICIENCY RATING

OTHER SIGNS PRESENT 4 DELIN. 2 ONE LANE BR.

STREAM STATS COORD 81°42'31.7W
35°57'46.4N



LOOKING NORTH

SIGN NOTICE
ISSUED FOR

NUMBERED
REQUIRED

No WEIGHT LIMIT

No DELINEATORS

No NARROW BRIDGE

No ONE LANE BRIDGE

No LOW CLEARANCE

130123

BRIDGE MANAGEMENT UNIT
DATA ON EXISTING STRUCTURE

Run Date: 04/19/2010

COUNTY :	CALDWELL	DIV :	11	DIST :	2	STRUCTURE NUMBER :	130123	LENGTH :	26	FEET	
ROUTE CARRIED :	SR1356	FEATURE INTERSECTED :	ESTES MILL CREEK								
LOCATED :	2.6 MI.SW.JCT.NC90		BRIDGE NAME :								
FUNC. CLASS :	09	SYST.ON :	NFA	SYST.UNDER :	NFA	ADT & YR :	100 2000	RAIL TYPE :	LT 227	RT 227	
BUILT :	1958	BY :	BMU	PROJ :		FED.AID PROJ :		DESIGN LOAD :	Other or Unknown		
REHAB :		BY :		PROJ :		ALIGNMENT :	TAN	SKEW :	60	LANES :	ON 1 UNDER
NAVIGATION :	VC 0.0 FT		HC 0.0 FT		HT. CRN. TO BED :		8	FT		WATER DEPTH :	2 FT
SUPERSTRUCTURE :	TIMBER FLOOR ON I-BEAMS										
SUBSTRUCTURE :	E.BTS:TIMBER CAPS/TIMBER POST & SILLS @VAR. CENTERS										
SPANS :	1 @ 25'-10										
BEAMS OR GIRDERS :	8 LINES 12 I-BEAMS @ 2'-4 CENTERS										
FLOOR :	4X8 TIM/1 AWS		ENCROACHMENT :		DECK (OUT TO OUT) :						18.0 FT
CLEAR ROADWAY :	15.8 FT		BETWEEN RAILS :		17.8 FT		SIDEWALK OR CURB :		LT 1.0 FT	RT 1.0 FT	
VERT.CLOVER :	99 FT 99 IN		VERT.CL.UNDER :		00 FT 00 IN		HOR.CL.UNDER :				0.0 FT
INV.RTG. :	HS-1	OPER.RTG. :	HS-1	CONTR.MEMBER :	INT BM	POSTED :	SV 19	TTST 25	DATE 09/30/2008		
SYSTEM :	Secondary S.R. Route					GREEN LINE ROUTE :					N
2ND OPENING :			3RD OPENING :				4TH OPENING :		5TH OPENING :		
REMARKS :											

130123

Bridge: 130123 County CALDWELL

Date: 02/04/2010

Top of Rail = 0 FT (Sounding)

STREAMBED PROFILE (Downstream)

