

PREDESIGN-PRESURVEY REPORT

Project#
TIP# B-5887
Let Date
WBS#

County Buncombe (Div 13)

Bridge# 100099
Road# SR 2816
Stream GARREN CRK.

Type Of Request: POC Force Account TIP NCMA

Date 1/22/16 Name Wsh
Checked By DEL 1-25-16

Assigned To PFF/MTS

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

Study By Scour Section NONE

Flood Zone AE Detail Study LIMITED Date 9696 Panel# 9696

B.M. Info N/A

Quad Map OTEEN Drainage Area 4.12 SQ MI. From DASS STA: 344722995
Q25 1400 Q50 2000 Q100 2300 Method NEW REG. EQU. IA-20%
RURAL REGION 2

LAT: 35.534263 4361
LONG: 82.390733 0061

EXISTING BRIDGE INFORMATION BUILT: 1973

Location 0.5 MI S JCT. SR 2782

Average Daily Traffic 290 2013 6% TRK.

Length 31' Bed-To Crown 9' Water Depth 1'

Type Structure TIMBER FLR. ON I BEAMS FBTS TIMBER CAPS POST & SILLS

Type Spans 1 @ 30' 9"

Upstream Structure 100423 TIMBER FLR ON I BEAMS 1 @ 31' 3"

Location WHITAKER RD. (SR 2820) 0.25 MI N JCT. 2806

Bed-To Crown (NOT GIVEN/ESTI 5-6') Prior Survey N/A BUILT: 1973

Downstream Structure 100119 TIMBER FLR ON I BEAMS (1 @ 30' 7", 1 @ 30' 8")

Location MILLER RD. (SR 2800) 0.2 MI S. JCT SR 2776

Bed-To Crown 14' (4' Deep) Prior Survey N/A BUILT: 1961

SCS Watershed N/A

YELLOW-UNDESIGNATED ENVIRONMENTAL

TVA: YES

Trout Stream YES Anadromous Fish NO Primary Nursery Area YES

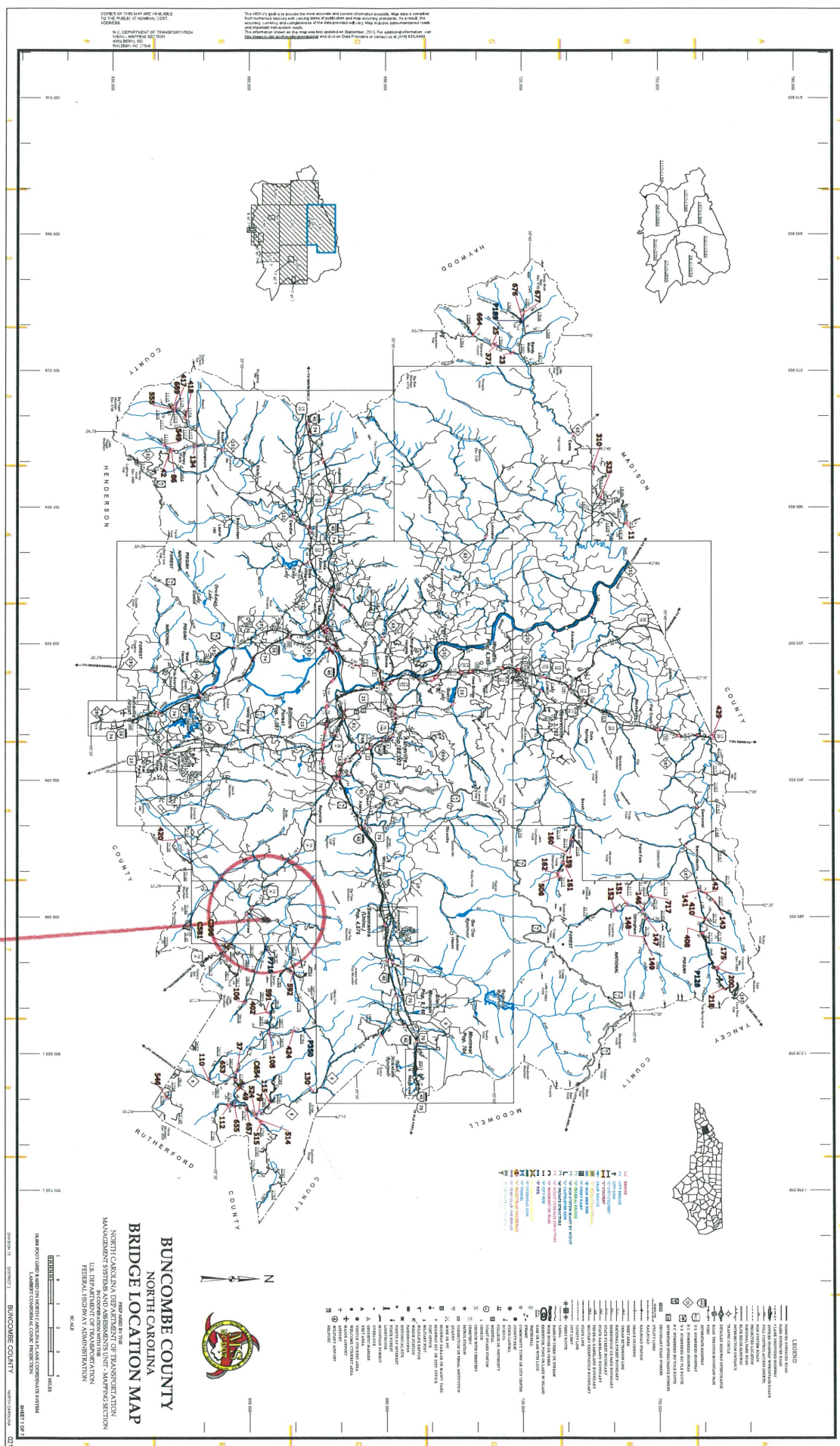
High Quality Waters NO Nutrient Sensitive Waters NO

Near Water Supply Intake N/A CAMA County NO

Stream Classification C, Tr #6-57-6

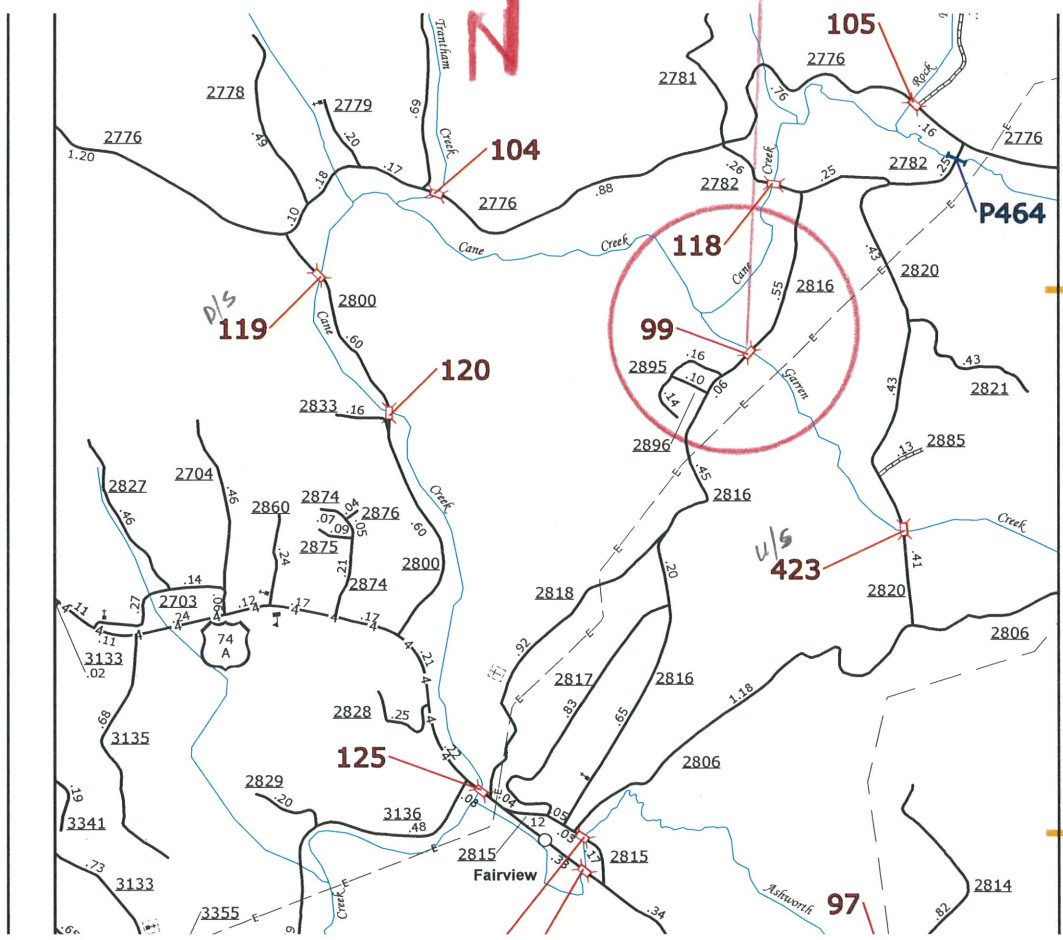
DENR River Basin Info. FRENCH BROAD

17 | B-50
28



100099

99



P464

F

E

COUNT

100 099



NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
STRUCTURE MANAGEMENT UNIT

ATTENTION:

Structure Safety Report

Routine Element Inspection

COUNTY: BUNCOMBE STRUCTURE NUMBER: 100099 FREQUENCY: 24 MONTHS

FACILITY CARRIED: SR2816 MILE POST: _____

LOCATION: 0.5 MI.S.JCT.SR.2782

FEATURE INTERSECTED: GARREN CREEK

LATITUDE: 35° 32' 3.38" LONGITUDE: 82° 23' 24.75"

SUPERSTRUCTURE: TIMBER FLOOR ON I-BEAMS

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

SPANS: 1 @ 30'-9"
1 @ 30"-9

☐ FRACTURE CRITICAL ☐ TEMPORARY SHORING ☐ SCOUR CRITICAL ☐ SCOUR PLAN OF ACTION

PRESENT CONDITION: Fair INSPECTION DATE: 10/28/2014

POSTED SV: 17 POSTED TTST: 23

OTHER SIGNS PRESENT: DELINEATORS (4) NARROW BRIDGE (1)



Sign noticed issued for	Number Required
<u>NO</u> WEIGHT LIMIT	<u>0</u>
<u>NO</u> DELINEATORS	<u>0</u>
<u>YES</u> NARROW BRIDGE	<u>1</u>
<u>NO</u> ONE LANE BRIDGE	<u>0</u>
<u>NO</u> LOW CLEARANCE	<u>0</u>

NORTH

INSPECTED BY ME.RENFRO	SIGNATURE <i>ME Renfro</i>	ASSISTED BY BG.HEATH
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100099

BRIDGE MANAGEMENT UNIT

DATA ON EXISTING STRUCTURE

Update Date: 01/28/2015

COUNTY : BUNCOMBE	DIVISION : 13	DISTRICT : 2	STRUCTURE NUMBER : 100099	LENGTH : 31 FEET
ROUTE CARRIED : SR2816		FEATURE INTERSECTED : GARREN CREEK		
LOCATED : 0.5 MI.S.JCT.SR.2782		BRIDGE NAME :		CITY :
FUNC. CLASS : 09	SYST.ON : NFA	SYST.UNDER : NFA	ADT & YR : 290 2013	RAIL TYPE : LT 227 RT 227
BUILT : 1973	BY : BMU	PROJ : 5.8453	FED.AID PROJ :	DESIGN LOAD : Unknown
REHAB :	BY :	PROJ :	ALIGNMENT : TAN	SKEW : 110
			LANES : ON 2	UNDER 0
NAVIGATION : VC 0 FT	HC 0 FT	HT. CRN. TO BED : 9 FT	WATER DEPTH : 1 FT	
SUPERSTRUCTURE : TIMBER FLOOR ON I-BEAMS				
SUBSTRUCTURE : E.BTS:TIMBER CAPS/TIMBER POST&SILLS @ VAR. CENTERS				
SPANS : 1 @ 30'-9				
BEAMS OR GIRDERS : 9 LINES 14 I-BEAMS @ 2'-3 CENTERS				
FLOOR : 4X8TIM/2.5 AWS	ENCROACHMENT :		DECK (OUT TO OUT) : 20 FT	
CLEAR ROADWAY : 19 FT	BETWEEN RAILS : 19.583 FT		SIDEWALK OR CURB : LT .3 FT RT .3 FT	
VERT.CL.OVER : 999.9 FT				
INV.RTG. : HS-9	OPE.RTG. : HS-16	CONTR.MEMBER : Int.bm#8	POSTED : SV 17	TTST 23 DATE 01/07/1997
SYSTEM : Secondary S.R. Route			GREEN LINE ROUTE : N	
UNDER ROUTES AND CLEARANCES				
REMARKS :				

100099

Structure: 100099

County: BUNCOMBE

Date: 10/28/2014

Structure Photos



LOOKING UPSTREAM



LOOKING DOWNSTREAM

* U/S STRUCTURE for 100099

Structure: 100423

County: BUNCOMBE

Date: 10/22/2014

Structure Photos



LOOKING UPSTREAM



LOOKING DOWNSTREAM

100099

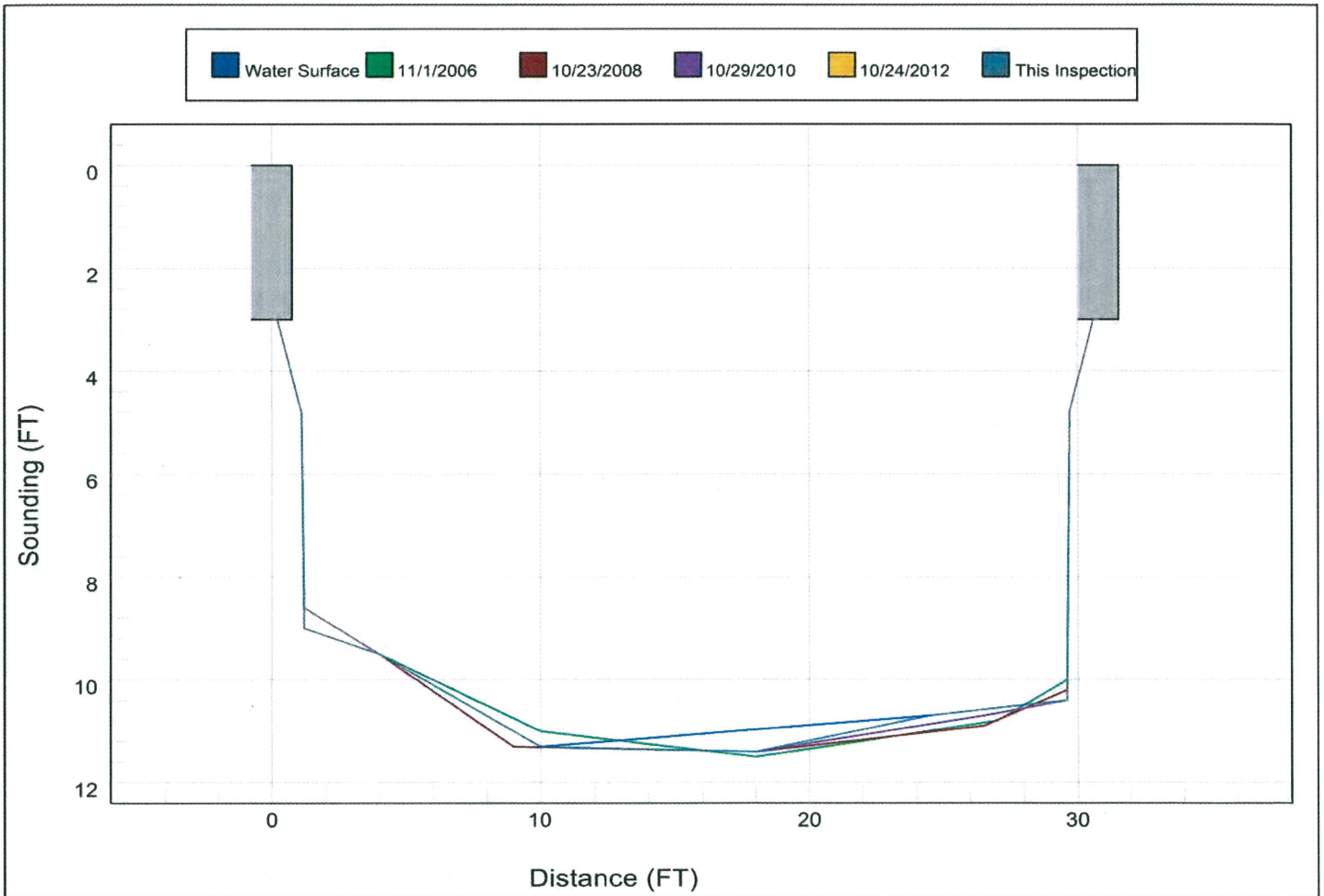
Bridge: 100099

County: BUNCOMBE

Date:

STREAMBED PROFILE (Downstream)

Top of Rail = 0 FT (Sounding)



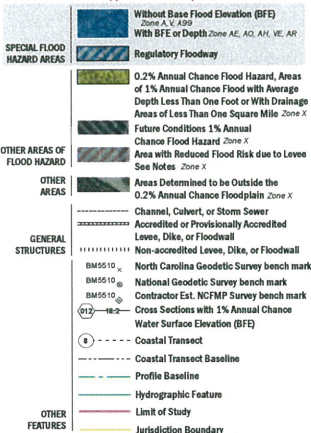
160099



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 to floodplain management to decrease the risks associated with flooding. This is demonstrated by the State's commitment to map flood hazard areas at the local level. As a part of this effort, the State of North Carolina has joined in a Cooperative Technical Data Agreement with FEMA to produce and maintain the digital FIRM.

FLOOD HAZARD INFORMATION

SEE FIS REPORT FOR ZONE DESCRIPTIONS AND INDEX MAP
THE INFORMATION DEPICTED ON THIS MAP AND SUPPORTING
DOCUMENTATION ARE ALSO AVAILABLE IN DIGITAL FORMAT AT
[HTTP://FRIS.NC.GOV/FRIS](http://FRIS.NC.GOV/FRIS)



NOTES TO USERS

For information and questions about this map, available products associated with the FIRM including historic versions of the FIRM, how to order products, or the National Flood Insurance Program in general, please visit the FEMA Map Information eXchange at <http://www.fema.gov> or visit the FEMA Map Service Center website at <http://www.fema.gov>. An accompanying Flood Insurance Study report, Letter of Map Revision, or other FEMA product may be available. For more information on flood insurance, visit <http://www.floodinsurance.gov> or contact the FEMA Map Service Center.

Communities seeking land use or adjacent FIRM parcels may obtain a current copy of the adjacent map as well as the current FIRM index. These may be ordered directly from the Map Service Center at the number listed above.

For community and emergency map data refer to the Flood Insurance Study report for this jurisdiction.

To determine if flood insurance is available in the community, contact your insurance agent or call the National Flood Insurance Program at 1-800-438-6620.

Base map information shown on this FIRM was provided in digital format by the North Carolina Floodplain Mapping Program (NCFPMP). The source of this information can be determined from the metadata available in the digital FIRM database and in the Technical Support Data Notebook (TSDB).

ACCREDITED LEVEE NOTES TO USERS: If an accredited levee note appears on this panel sheet with your local community to obtain more information, such as the estimated level of protection provided (which may exceed the 1-percent annual chance level) and Emergency Action Plan, on the levee system(s) shown as providing protection. To maintain accreditation, the levee owner or community is required to submit the data and documentation necessary to comply with Section 65.10 of the NFIP regulations. If the community or owner does not provide the necessary data and documentation or if the data and documentation provided indicates the levee system does not comply with Section 65.10 requirements, FEMA will remove the flood hazard and use information for this area to reflect the accreditation of the levee system. To mitigate flood risk to residential areas, property owners and residents are encouraged to consider flood insurance and floodproofing or other protective measures. For more information on flood insurance, visit <http://www.floodinsurance.gov> or contact the FEMA Map Service Center at <http://www.fema.gov>.

PROVISIONALLY ACCREDITED LEVEE NOTES TO USERS: If a Provisionally Accredited Levee (PAL) note appears on this panel, check with your local community to obtain more information, such as the estimated level of protection provided (which may exceed the 1-percent annual chance level) and Emergency Action Plan, on the levee system(s) shown as providing protection. To maintain accreditation, the levee owner or community is required to submit the data and documentation necessary to comply with Section 65.10 of the NFIP regulations. If the community or owner does not provide the necessary data and documentation or if the data and documentation provided indicates the levee system does not comply with Section 65.10 requirements, FEMA will remove the flood hazard and use information for this area to reflect the accreditation of the levee system. To mitigate flood risk to residential areas, property owners and residents are encouraged to consider flood insurance and floodproofing or other protective measures. For more information on flood insurance, visit <http://www.floodinsurance.gov> or contact the FEMA Map Service Center at <http://www.fema.gov>.

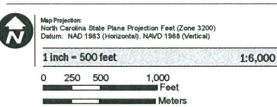
LIMIT OF MODERATE WAVE ACTION NOTES TO USERS: For some coastal flooding zones the AE zone category has been divided by a Limit of Moderate Wave Action (LMWA). The LMWA represents the approximate landward limit of a 1.5-foot flooding wave. The effects of wave hazards between the VE zone and the LMWA (or between the shoreline and the LMWA for areas where VE zones are not identified) will be similar to, but less severe than those in the VE zone.

Limit of Moderate Wave Action (LMWA)

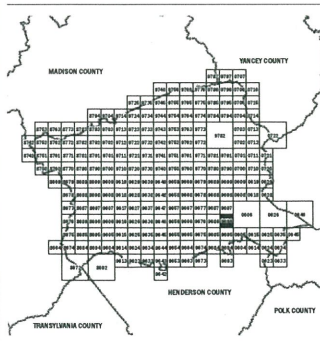
COASTAL BARRIER RESOURCES SYSTEM (CBRS) NOTE
This map may indicate approximate boundaries of the CBRS for informational purposes only. Flood insurance is not available within CBRS areas and is subject to change without notice. For more information on the CBRS, visit <http://www.fema.gov> or contact the FEMA Map Service Center at <http://www.fema.gov>.

Legend:
CBRS Area
Otherwise Protected Area

SCALE



PANEL LOCATOR



National Flood Insurance Program

NORTH CAROLINA FLOODPLAIN MAPPING PROGRAM
NATIONAL FLOOD INSURANCE PROGRAM
FLOOD INSURANCE RATE MAP
NORTH CAROLINA
Panel 9696

Panel Contains:
COMMUNITY
BUNCOMBE COUNTY

CID PANEL SUFFIX
370031 9696 J

MAP NUMBER
3700969600J
MAP REVISED
01/06/10

