

POSSIBLE REPLACEMENT W/ CULVERT.

MDA OK.

GOOD CANDIDATE.

PREDESIGN-PRESURVEY REPORT

Project# _____
TIP# _____
Let Date _____
WBS# 17BP.12.R.22

County Cleveland

Bridge# 220255
Road# SR 1207
Name Wood Rd
Stream Ashworth Cr Trib 5

Type Of Request: POC Force Account TIP NCMA

Date 8/1/2011 Name Sungate Design Assigned To _____

Checked By WHW

Prior Survey Date None (attach copy of prior survey)

Study By Scour Section No

Flood Zone Yes Detail Study Limited Date 7/2/08 Panel# 1573

B.M. Info N/A

Quad Map Boiling Springs South Drainage Area 0.96 Sq Miles From USGS Quad Map
Q25 540 cfs Q50 660 cfs Q100 780 cfs Method Rural Regression Eqs

EXISTING BRIDGE INFORMATION

Location 0.1 miles west of junction with SR 1208

Average Daily Traffic 510

Length 51'-6" Bed- To Crown 9' Water Depth 1'

Type Structure Reinforced concrete deck on I-beams, timber caps and piles

Type Spans 1 @ 17'-3", 1 @ 17'-0", 1 @ 17'-3"

Upstream Structure N/A

Location _____

Bed- To Crown _____ Prior Survey _____

Downstream Structure Not Comparable

Location _____

Bed- To Crown _____ Prior Survey _____

SCS Watershed _____

ENVIRONMENTAL

Trout Stream No Anadromous Fish No Primary Nursery Area No

High Quality Waters No Nutrient Sensitive Waters No

Near Water Supply Intake No CAMA County No

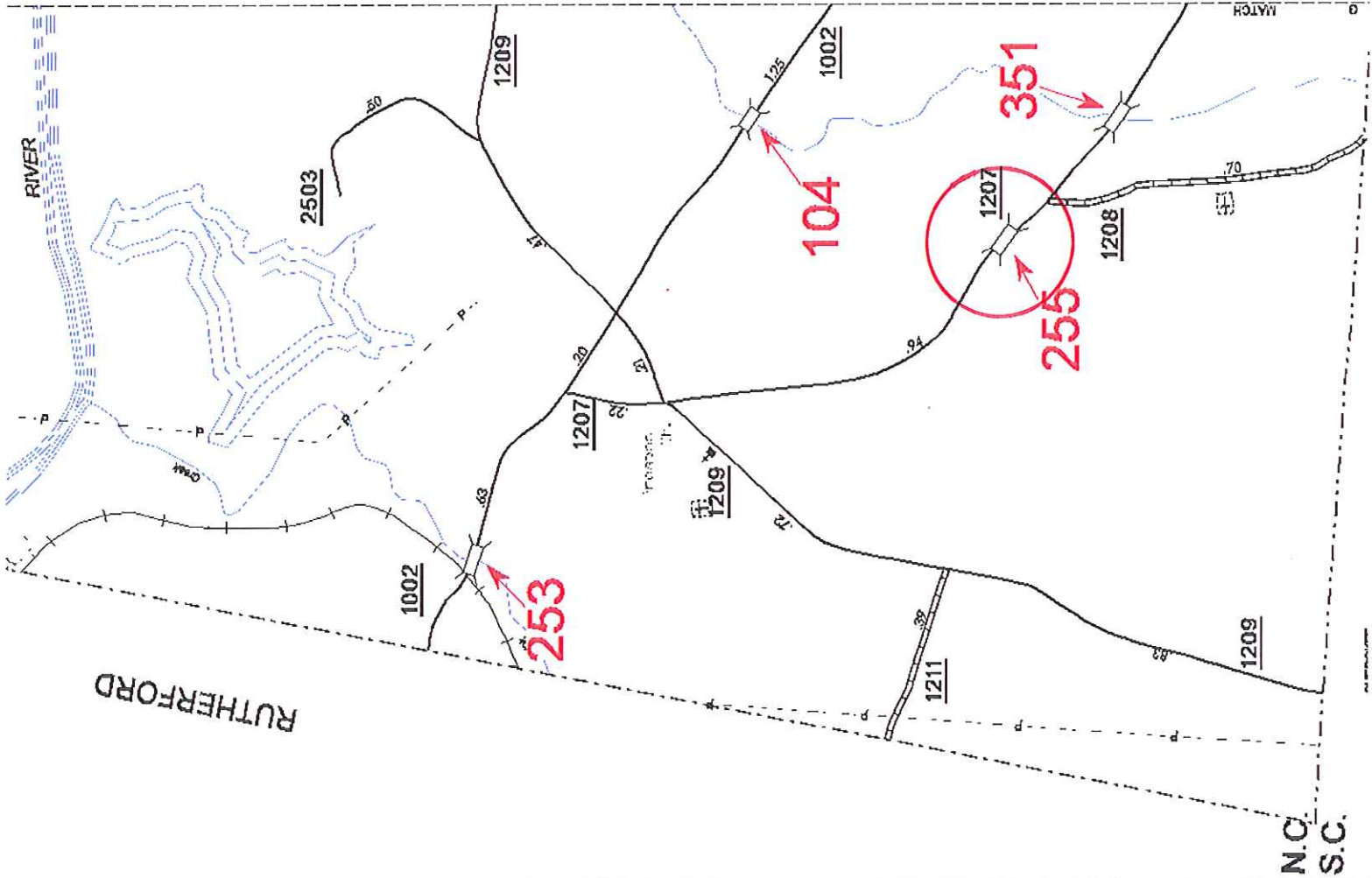
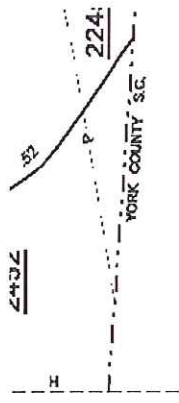
Stream Classification WS-IV


















DENR River Basin Info. Broad

State Stormwater Permit Not Required

Estimated Structure = 3 @ 11 X 8 RCBC Area = 231 SF HW/D = .85

Area under existing bridge = 214 SF



-  NORMAL BRIDGE
-  "C" CULVERT
-  "D" PEDESTRIAN BRIDGE
-  "F" FERRY RAMP
-  "G" FEDERAL AGENCY STRUCTURE
-  "H" NON-SYSTEM STRUCTURE MAIN
-  "L" CANTILEVER SIGN STRUCTURE
-  "M" PRIVATELY OWNED STRUCTURE
-  "N" NCDOT OVERPASS STRUCTURE
-  "P" PIPE CULVERT
-  "R" RAILROAD COMPANY STRUCTURE
-  "S" OVERHEAD SIGN
-  "T" TUNNEL
-  "U" PEDESTRIAN, CATTLE UNDERPASS
-  "V" VEHICLE UNDERPASS LESS THAN 14 FEET
-  "W" NCDOT AND PRIVATE PEDESTRIAN STRUCTURE
-  "Y" SINGLE POLE SIGN STRUCTURE



NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
BRIDGE MANAGEMENT UNIT

ATTENTION

BRIDGE INSPECTION REPORT

INSPECTION TYPE: Routine Inspection

COUNTY CLEVELAND BRIDGE NUMBER 220255 INSPECTION CYCLE 2 YRS

ROUTE SR1207 ACROSS BRANCH M.P. 0

LOCATION 0.1 MI. W. JCT. SR1208

SUPERSTRUCTURE REINFORCED CONCRETE DECK ON I-BEAMS

SUBSTRUCTURE END & INTERIOR BENTS:TIMBER CAPS & PILES,TIMBER BULKHEADS

SPANS 1@17'3", 1@17'0", 1@17'3" SIMPLE

LONGITUDE 81° 44' 49.7"

LATITUDE 35° 11' 26.3"

PRESENT CONDITION FAIR

INVENTORY RATING HS 2.01

INSPECTION DATE 09/09/2010

OPERATING RATING HS 2.01

PRESENT POSTING SV 25 TTST 36

PROPOSED POSTING RETAIN SV: 25 TONS - TIST: 36 TON

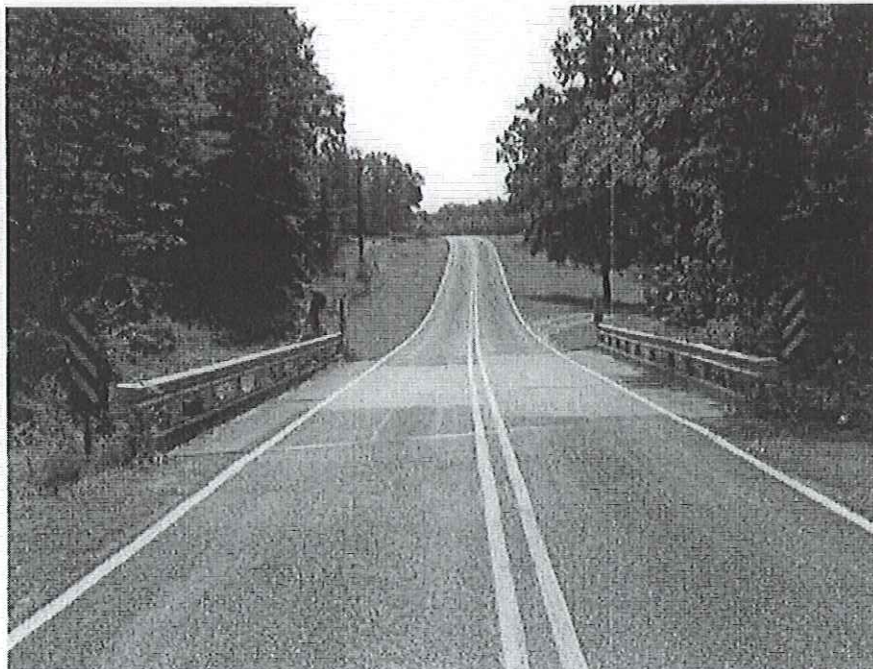
COMPUTER UPDATE 10, 13, 10

ANALYSIS DATE 10-07-10

POSTING LETTER DATE

SUFFICIENCY RATING

OTHER SIGNS PRESENT 4 DELIENATORS



WEST APPROACH

SIGN NOTICE
ISSUED FOR

NUMBERED
REQUIRED

Yes WEIGHT LIMIT 1

No DELINEATORS

No NARROW BRIDGE

No ONE LANE BRIDGE

No LOW CLEARANCE

BRIDGE MANAGEMENT UNIT
DATA ON EXISTING STRUCTURE

Run Date: 10/13/2010

COUNTY :	CLEVELAND	DIV :	12	DIST :	1	STRUCTURE NUMBER :	220255	LENGTH :	52	FEET
ROUTE CARRIED :	SR1207	FEATURE INTERSECTED :	BRANCH							
LOCATED :	0.1 MI. W. JCT. SR1208		BRIDGE NAME :					CITY :		
FUNC. CLASS :	09	SYST.ON :	NFA	SYST.UNDER :	NFA	ADT & YR :	510 2009	RAIL TYPE :	LT 233	RT 233
BUILT :	1966	BY :	BMU	PROJ :	5.805	FED.AID PROJ :		DESIGN LOAD :	Other or Unknown	
REHAB :		BY :		PROJ :		ALIGNMENT :	TAN	SKEW :	75	LANES :
									ON 2	UNDER
NAVIGATION :	VC	0.0	FT	HC	0.0	FT	HT. CRN. TO BED :	9	FT	WATER DEPTH :
									1	FT
SUPERSTRUCTURE :	REINFORCED CONCRETE DECK ON I-BEAMS									
SUBSTRUCTURE :	END & INTERIOR BENTS:TIMBER CAPS & PILES,TIMBER BULKHEADS									
SPANS :	1@17'3", 1@17'0", 1@17'3" SIMPLE									
BEAMS OR GIRDERS :	19 LINES OF W12X16 I-BEAMS @ 1'4" CENTERS									
FLOOR :	5" RC SLAB		ENCROACHMENT :			DECK (OUT TO OUT) :	25.3 FT			
CLEAR ROADWAY :	24.0 FT		BETWEEN RAILS :	24.8 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 :	cap	POSTED :	SV	25	TTST	36
							DATE	10/17/2008		
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: 220255 County: CLEVELAND Date: 09/09/2010 By: DCR

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	2.7	FF ABUT 1			
0.8	4	ABUT 1			
1.3	4.5	SF ABUT 1	1.3	6	SF ABUT 1
17.3	7	BENT 1	17.3	7.8	BENT 1
19.3	11	WS AND WE			
22.3	11.2	STREAMBED			
24.3	11.4	STREAMBED			
26	11.5	DEEPEST POINT			
33.8	11.4	BENT 2	33.8	11.8	BENT 2
34.4	11	WS AND WE			
43.3	4.8	SLOPE			
50.1	5.3	SF ABUT 2	50.1	6.4	SF ABUT 2
50.8	4	ABUT 2			
52	2.7	FF ABUT 2			

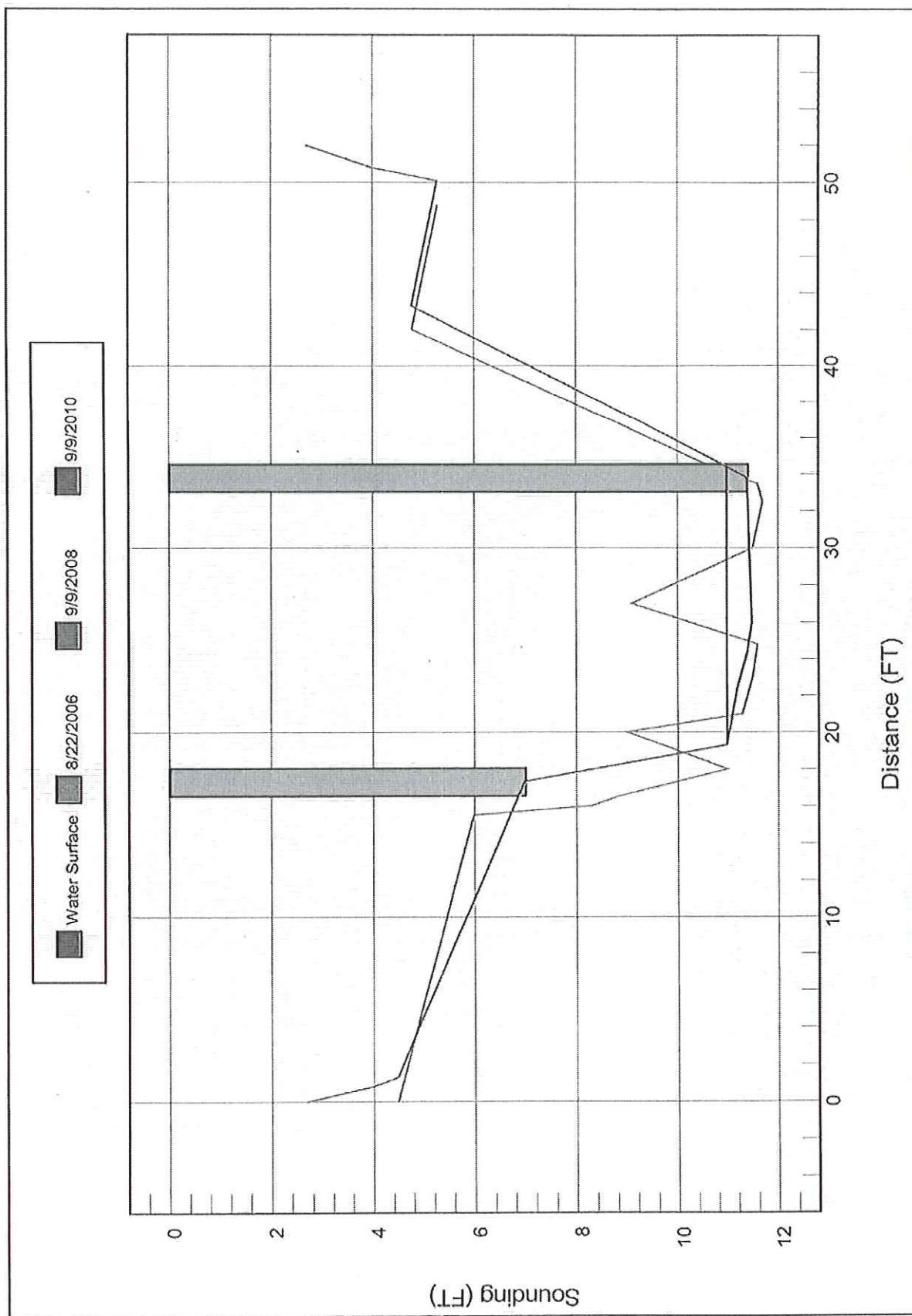
Bridge: 220255

County CLEVELAND

Date: 09/09/2010

STREAMBED PROFILE (Downstream)

Top of Rail = 0 FT (Sounding)

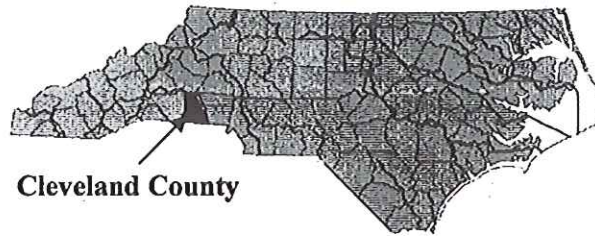


FLOOD INSURANCE STUDY

A Report of Flood Hazards in

CLEVELAND COUNTY, NORTH CAROLINA

AND INCORPORATED AREAS



Community Name	Community Number	River Basin
Belwood, Town of	370653	Broad
Boiling Springs, Town of	370550	Broad
Casar, Town of	370408	Broad
Cleveland County (Unincorporated Areas)	370302	Broad
Grover, Town of	370572	Broad
Kings Mountain, City of	370304	Broad and Catawba
Kingstown, Town of	370604	Broad
Lawndale, Town of	370303	Broad
Mooresboro, Town of	370592	Broad
Polkville, Town of	370634	Broad
Shelby, City of	370064	Broad
Waco, Town of	370646	Broad



February 20, 2008

Federal Emergency Management Agency
State of North Carolina

Flood Insurance Study Number
37045CV000A

www.fema.gov and www.ncfloodmaps.com



Section 4.0 – Area Studied

Table 3—Flooding Sources Studied by Detailed Methods: Revised or Newly Studied

Source	Riverine Sources		Affected Communities
	From	To	
UT Between Shelby Raw Water Intakes	The confluence with First Broad River	Approximately 0.5 mile upstream of Frederick Street	City of Shelby

Table 4, “Flooding Sources Studied by Detailed Methods: Limited Detailed” contains a list of flooding sources that were studied by approximate methods in previous FISs but were revised using limited detailed methods for this FIS.

Table 4—Flooding Sources Studied by Detailed Methods: Limited Detailed

Source	Riverine Sources		Affected Communities
	From	To	
Abernathy Creek	Approximately 0.5 mile upstream of Mountain View Road (SR 1302)	Approximately 1.4 miles upstream of Mountain View Road (SR 1302)	City of Kings Mountain
Adams Branch	The confluence with Knob Creek (into First Broad River)	Approximately 50 feet upstream of Woodrow Hoyle Road (SR 1624)	Cleveland County (Unincorporated Areas), City of Belwood
Adams Branch Tributary 1	The confluence with Adams Branch	Approximately 1.2 miles upstream of the confluence with Adams Branch	Cleveland County (Unincorporated Areas)
Ashworth Creek	The confluence with Broad River	The North Carolina / South Carolina state boundary	Cleveland County (Unincorporated Areas)
Ashworth Creek Tributary 5	The confluence with Ashworth Creek	Approximately 600 feet upstream of Wood Road (SR 1207)	Cleveland County (Unincorporated Areas)
Bald Knob Creek	The confluence with Little Knob Creek	Approximately 100 feet upstream of Pruitt Road (SR 1627)	Cleveland County (Unincorporated Areas)
Beason Creek	The confluence with Buffalo Creek	Approximately 80 feet downstream of Yarboro Road (SR 2249)	Cleveland County (Unincorporated Areas), City of Kings Mountain
Beason Creek Tributary 1	The confluence with Beason Creek	Approximately 600 feet upstream of confluence with Beason Creek	Cleveland County (Unincorporated Areas)
Beason Creek Tributary 18	The confluence with Beason Creek	Approximately 1,000 feet upstream of confluence with Beason Creek	City of Kings Mountain
Beaverdam Creek (near Boiling Springs)	The confluence with First Broad River	Approximately 200 feet upstream of Railroad	Cleveland County (Unincorporated Areas), Town of Boiling Springs

Section 5.0 – Engineering Methods

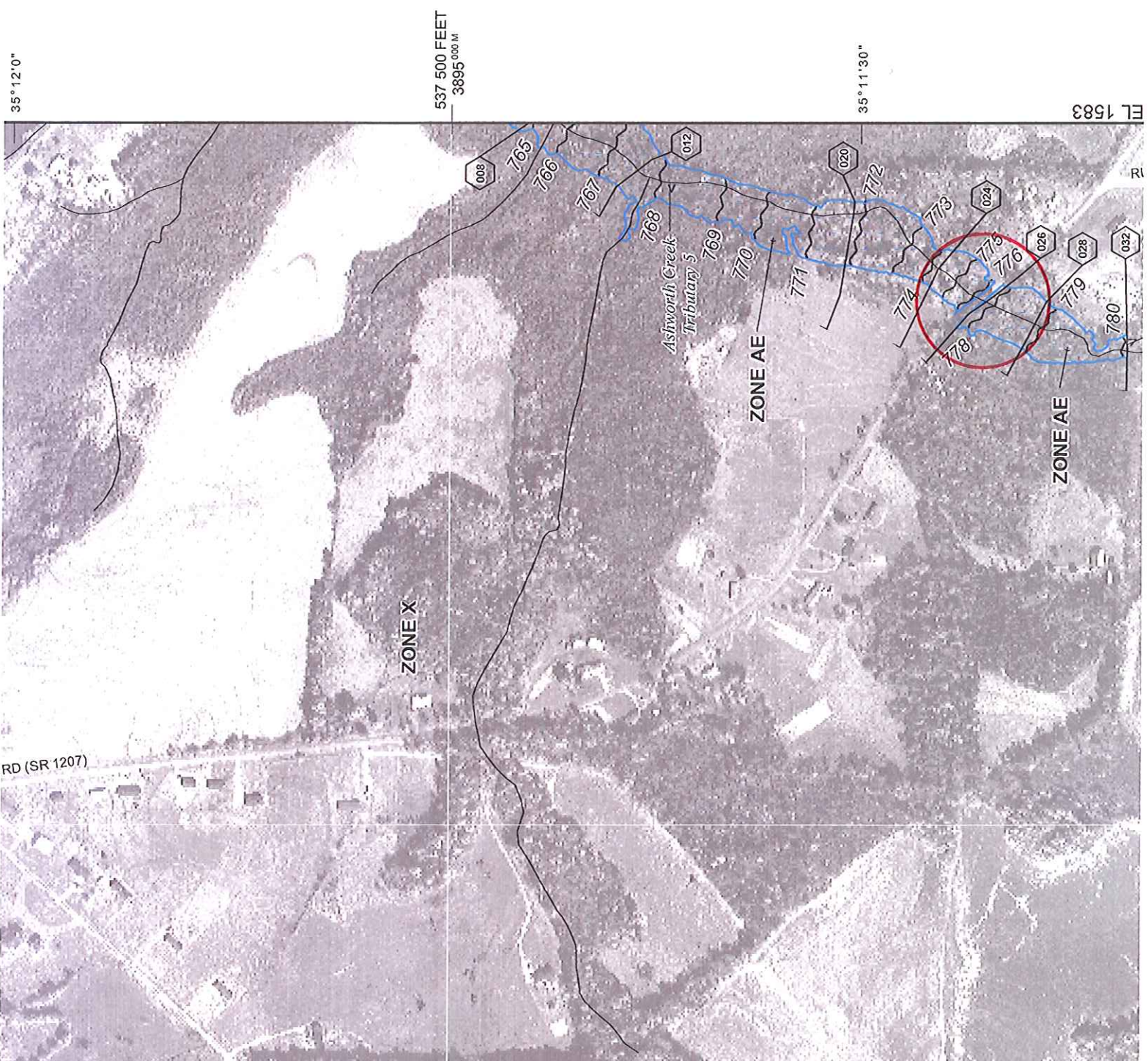
Table 6—Summary of Discharges

Flooding Source	Location	Drainage Area (square miles)	Discharges (cfs)			
			10% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance
Adams Branch	At confluence with Knob Creek (into First Broad River)	3.1	*	*	1,770	*
	At confluence with Adams Branch Tributary 1	1.5	*	*	1,100	*
	Approximately 700 feet downstream of Vic Randall Road (SR 1623)	1.0	*	*	880	*
Adams Branch Tributary 1	At confluence of Adams Branch	1.0	*	*	860	*
Ashworth Creek	At confluence with Broad River	6.9	*	*	2,890	*
	Approximately 200 feet upstream of SR 1002	5.3	*	*	2,460	*
	Approximately 900 feet downstream of SR 1207	3.0	*	*	1,710	*
Ashworth Creek Tributary 5	At confluence with Ashworth Creek	1.3	*	*	1,010	*
	Approximately 1,300 feet downstream of SR 1207	1.2	*	*	980	*
Bald Knob Creek	At confluence with Little Knob Creek	4.0	*	*	2,050	*
	Approximately 1,000 feet downstream of Ed Downs Road (SR 1631)	2.4	*	*	1,490	*
Beams Lake	At confluence with Hickory Creek (near Shelby)	0.8	610	1,000	1,110	1,410
	Approximately 0.6 mile upstream of confluence with Hickory Creek (near Shelby)	0.5	320	590	670	920
Beason Creek	At confluence with Buffalo Creek	18.5	*	*	5,350	*
	Approximately 800 feet downstream of Range Road (SR 2246)	9.8	*	*	3,600	*
	Approximately 0.5 mile downstream of Yarbrow Road	6.2	1,220	2,080	2,380	3,230

Section 5.0 – Engineering Methods

Table 10—Limited Detailed Flood Hazard Data

Cross Section ¹	Stream Station ²	Flood Discharge (cfs)	1% Annual Chance Water-Surface Elevation (feet NAVD 88)	Non-Encroachment Width ³ (feet)
ASHWORTH CREEK				
141	14,083	2,460	763.5	59 / 46
144	14,403	2,040	764.2	36 / 26
150	14,981	2,040	766.8	22 / 59
155	15,500	2,040	768.2	29 / 39
160	16,000	2,040	769.7	92 / 35
166	16,558	2,010	771.1	92 / 71
167	16,687	2,010	771.3	22 / 86
171	17,072	2,010	773.1	53 / 59
175	17,470	1,710	775.4	117 / 22
179	17,915	1,710	776.2	89 / 20
182	18,157	1,710	777.6	63 / 61
182	18,237	1,710	780.0	55 / 55
184	18,409	1,710	780.4	54 / 109
190	18,984	1,710	780.9	19 / 156
195	19,455	1,710	781.7	64 / 37
200	20,037	1,710	783.7	64 / 66
205	20,545	1,710	785.4	70 / 22
210	21,013	1,710	787.5	31 / 20
ASHWORTH CREEK TRIBUTARY 5				
002	227	1,010	763.5 ⁵	41 / 30
005	500	1,010	763.6 ⁴	25 / 18
008	773	1,010	764.9	49 / 31
010	967	1,010	766.4	49 / 25
012	1,193	1,010	767.8	29 / 43
015	1,486	980	768.9	49 / 31
020	1,998	980	771.8	54 / 12
024	2,406	980	773.7	40 / 35
026	2,553	980	775.8	45 / 45
026	2,614	980	778.4	45 / 45
028	2,811	980	778.9	83 / 67
032	3,198	980	779.9	27 / 55
BALD KNOB CREEK				
001	60	2,910	945.8 ⁴	210 / 100
004	413	2,050	946.6	49 / 73
013	1,346	2,050	949.3	51 / 117
019	1,937	1,720	951.4	118 / 214
022	2,224	1,720	952.1	99 / 79
027	2,710	1,720	955.8	79 / 18
028	2,817	1,720	957.1	43 / 29
029	2,910	1,720	959.9	49 / 49
030	2,983	1,720	960.1	103 / 234
032	3,208	1,720	960.2	153 / 92
038	3,754	1,720	962.0	19 / 29
042	4,228	1,720	967.4	19 / 20
048	4,783	1,720	969.7	19 / 16
053	5,324	1,720	972.2	21 / 21
055	5,463	1,490	973.8	91 / 18
058	5,840	1,490	975.2	19 / 16



average depths also determined

ZONE AR Special Flood chance flood decertified. Zo being restored greater flood.

ZONE A99 Area to be pr flood protection determined.

ZONE VE Coastal flood zor determined.

FLOODWAY AF

The floodway is the channel o kept free of encroachment so substantial increases in flood l

OTHER FLOOD

ZONE X Areas of 0.2% with average de 1 square mile; flood.

OTHER AREAS

ZONE X Areas determined to

ZONE D Areas in which flood

COASTAL BAR

OTHERWISE P

CBRS areas and OPAs are norma

1% 0.2 Flo Zor CB Boi div Ele Ba: Ba ele

(EL 987)

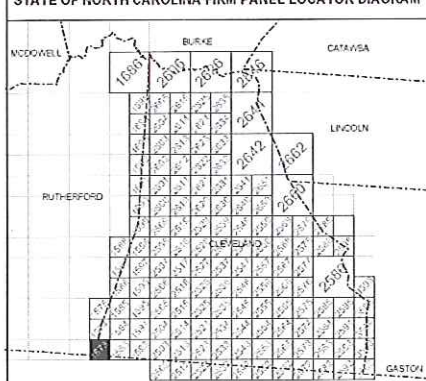
*Referenced to the North America

012 23 97°07'30", 32°22'30"

Crc Tra Ge Dat 10C 25C

4276 000 M 1 477 500 FEET

STATE OF NORTH CAROLINA FIRM PANEL LOCATOR DIAGRAM



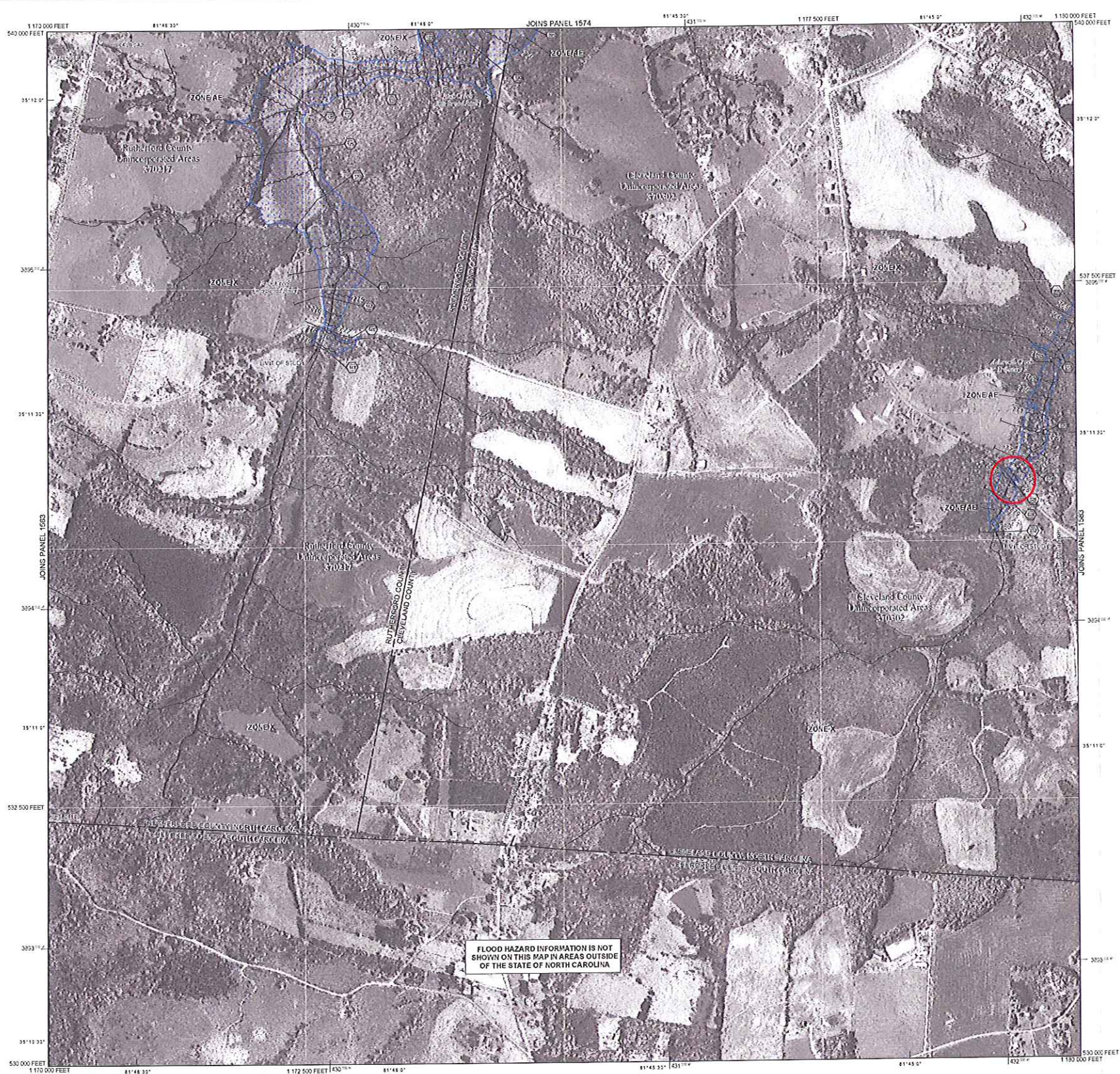
DATUM INFORMATION

The projection used in the preparation of this map was the North Carolina State Plane (NAD83/2011). The horizontal datum was the North American Datum of 1983, NAD83. Differences in datum, ellipsoid, projection, or Universal Transverse Mercator zones used in the production of FIRM for adjacent jurisdictions may result in slight positional differences in map features across jurisdictional boundaries. These differences do not affect the accuracy of this FIRM. All coordinates on this map are in U.S. Survey Feet, where 1 U.S. Survey Foot = 1200/3937 Meters.

Flood elevations on this map are referenced to the North American Vertical Datum of 1988 (NAVD 88). These flood elevations must be compared to structure and ground elevations referenced to the same vertical datum. An average offset between NAVD 88 and the National Geodetic Vertical Datum of 1929 (NGVD 29) has been computed for each North Carolina county. This offset was then applied to the NGVD 29 flood elevations that were not revised during the creation of this statewide format FIRM. The offsets for each county shown on this FIRM panel are shown in the vertical datum offset table below. Where a county boundary and a flooding source with unvisited NGVD 29 elevations are coincident, an individual offset has been calculated and applied during the creation of this statewide format FIRM. See Section 6.1 of the accompanying Flood Insurance Study report to obtain further information on the conversion of elevations between NAVD 88 and NGVD 29. To obtain current elevation, description, and/or location information for bench marks shown on this map, please contact the North Carolina Geodetic Survey at the address shown below. You may also contact the Information Services Branch of the National Geodetic Survey at (800) 773-3242, or visit its website at <http://www.ngs.noaa.gov>.

North Carolina Geodetic Survey
121 West Jones Street
Raleigh, NC 27601
(919) 733-3535
<http://www.ncgs.state.nc.us>

County	Vertical Datum Offset (ft)
Cleveland	-0.12
Rutherford	See Vertical Datum Offset Table in FIS Report
Example: NAVD 88 = 125.00, 29 = 124.88	



FLOOD HAZARD INFORMATION IS NOT SHOWN ON THIS MAP IN AREAS OUTSIDE OF THE STATE OF NORTH CAROLINA

NOTES TO USERS

This map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. The community map repository should be consulted for possible updated or additional flood hazard information.

To obtain more detailed information in areas where Base Flood Elevations (BFEs) and/or floodways have been determined, users are encouraged to consult the Flood Profiles, Floodway Data, Limited Detailed Flood Hazard Data, and/or Summary of Subwater Elevation Tables contained within the Flood Insurance Study (FIS) report that accompanies this FIRM. Users should be aware that BFEs shown on the FIRM represent rounded whole-foot elevations. These BFEs are intended for flood insurance rating purposes only and should not be used as the sole source of flood elevation information. Accordingly, flood elevation data presented in the FIS report should be utilized in conjunction with the FIRM for purposes of construction and/or floodplain management.

Boundaries of regulatory floodways shown on the FIRM for flooding sources studied by detailed methods were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the National Flood Insurance Program. Floodway widths and other pertinent floodway data for flooding sources studied by detailed methods as well as non-enforcement widths for flooding sources studied by limited detailed methods are provided in the FIS report for this jurisdiction. The FIS report also provides instructions for determining a floodway using non-enforcement widths for flooding sources studied by limited detailed methods.

Certain areas not in Special Flood Hazard Areas may be protected by flood control structures. Refer to Section 4.4 "Flood Protection Measures" of the Flood Insurance Study report for information on the flood control structures in this jurisdiction.

Base map information and geospatial data used to develop this FIRM were obtained from various organizations, including the participating local community(ies), state and federal agencies, and/or other sources. The primary base for this FIRM is aerial imagery acquired by the State. The time period of collection for the State imagery is 2005 and 2008. Information and geospatial data supplied by the local community(ies) that met FEMA base map specifications were considered the preferred source for development of the base map. See geospatial metadata for the associated digital FIRM for additional information about base map preparation.

Base map features shown on this map, such as corporate limits, are based on the most up-to-date data available at the time of publication. Changes in the corporate limits may have occurred since this map was published. Map users should consult the appropriate community official or website to verify current conditions of jurisdictional boundaries and base map features. This map may contain roads that were not considered in the hydraulic analysis of streams where no new hydraulic model was created during the production of this statewide format FIRM.

This map reflects more detailed and up-to-date stream channel configurations than those shown on the previous FIRM for this jurisdiction. The floodplains and floodways that were transferred from the previous FIRM may have been adjusted to conform to these new stream channel configurations. As a result, the Flood Profiles and Floodway Data tables in the Flood Insurance Study report (which contain authoritative hydraulic data) may reflect stream channel distances that differ from what is shown on this map.

Please refer to the separately printed Map Index for an overview map of the county showing the layout of map panels, community map repository addresses, and a listing of communities table containing National Flood Insurance Program data for each community as well as a listing of the panels on which each community is located.

If you have questions about this map, or questions concerning the National Flood Insurance Program in general, please call 1-877-FEMA-MAP (1-877-336-2627) or visit the FEMA website at <http://www.fema.gov>.

An accompanying Flood Insurance Study report, Letter of Map Revision (LOMR) or Letter of Map Amendment (LOMA) revising portions of this FIRM may be available. Visit the North Carolina Floodplain Mapping Program website at <http://www.ncfloodmaps.com>, or contact the FEMA Map Service Center at 1-800-358-9616 for information on all related products associated with this FIRM. The FEMA Map Service Center may also be reached by fax at 1-800-358-9620 and its website at <http://www.msc.fema.gov>.

MAP REPOSITORY

Refer to listing of Map Repositories on Map Index or visit <http://www.ncfloodmaps.com>.

EFFECTIVE DATE OF FLOOD INSURANCE RATE MAP PANEL

FEBRUARY 20, 2008

EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL

JULY 2, 2008

For community map revision history prior to statewide mapping, refer to the Community Map History table located in the Flood Insurance Study report for this jurisdiction.

To determine if flood insurance is available in this community, contact your insurance agent, the North Carolina Division of Emergency Management or the National Flood Insurance Program at the following phone numbers or websites:

NC Division of Emergency Management
(919) 715-8000 <http://www.ncdcm.nc.gov>
National Flood Insurance Program
1-800-438-6620 <http://www.fema.gov/businessinfo>

LEGEND

- SPECIAL FLOOD HAZARD AREAS (SFHAs) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD**
- The 1% annual chance flood (100-year flood) also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AR, AV, and VE. The Base Flood Elevation is the water surface elevation of the 1% annual chance flood.
- ZONE A** No Base Flood Elevations determined.
- ZONE AE** Base Flood Elevations determined.
- ZONE AH** Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.
- ZONE AR** Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.
- ZONE AS** Special Flood Hazard Area formerly protected from the 1% annual chance flood by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.
- ZONE AV** Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.
- ZONE VE** Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.
- FLOODWAY AREAS IN ZONE AE**
- The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.
- OTHER FLOOD AREAS**
- ZONE X** Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.
- OTHER AREAS**
- ZONE D** Areas determined to be outside the 0.2% annual chance floodplain; Areas in which flood hazard is undetermined, but possible.
- COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS**
- OTHERWISE PROTECTED AREAS (OPAs)**
- CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.
- 1% annual chance floodplain boundary
 - 0.2% annual chance floodplain boundary
 - Floodway boundary
 - Zone-D boundary
 - CBRS and OPA boundary
 - Boundary dividing Special Flood Hazard Zones and boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths or flood velocities
 - Base Flood Elevation line and value, elevation in feet
 - Base Flood Elevation value, where uniform within zone, elevation in feet
- *Referenced to the North American Vertical Datum of 1988
- Cross section line
 - Traverse line
 - Geographic coordinates referenced to the North American Datum of 1983 (NAD 83)
 - 100-meter Universal Transverse Mercator grid lines, zone 17
 - 2000-foot grid values - North Carolina State Plane coordinate system (NAD 83/2011, State Plane NAD 83 feet)
 - North Carolina Geodetic Survey bench mark (for more information visit <http://www.ncgs.state.nc.us>)
 - National Geodetic Survey bench mark (for more information visit <http://www.ngs.noaa.gov>)
 - NGVD 29 3.0 m Vertical Control Marks or Contractor-Established NCPM Bench Marks (for more information visit <http://www.ngs.noaa.gov>)
 - M15 River Mile



MAP SCALE 1" = 500' (1 : 6,000)

250 0 500 1000 1500 2000 FEET

100 0 150 200 METERS

NATIONAL FLOOD INSURANCE PROGRAM

PANEL 1573K

FIRM
FLOOD INSURANCE RATE MAP
NORTH CAROLINA

PANEL 1573

(SEE LOCATOR DIAGRAM OR MAP INDEX FOR FIRM PANEL LAYOUT)

CONTACTS

COUNTY CLEVELAND COUNTY
RUTHERFORD COUNTY

CD No. 370202
FIRM 1573

State of North Carolina

Federal Emergency Management Agency

Notice to User: The Map Number shown below should be used when placing map orders. The Community Number shown above should be used on the same application for the subject community.

MAP REVISED JULY 2, 2008

MAP NUMBER 3710157300K

State of North Carolina

Federal Emergency Management Agency

www.ncfloodmaps.com

Ashworth Creek Trib 5 Limited Detail Study Plan: Floodway Run 9/19/2007

SR 1207 Structure ID: Wood Road Approximate Survey Structure

