

OFFICE ESTIMATE

1@ 35', 1@ 40', 1@ 30' Bridge

Project#

TIP#

Let Date

PREDESIGN-PRESURVEY REPORT

WBS# 17 BP. 11. R. 84

County

Surry

Bridge#

850322

Road#

SR 1622 (Beamer Rd.)

Stream

STEWARTS CREEK

Type Of Request: POC Force Account TIP NCMA

Date 7/24/13 Name M. G. S.

Assigned To RCH

Checked By wsh - 7-25-13

Prior Survey Date NONE (attach copy of prior survey) BRN BK: NO CD FILE NO

Study By Scour Section NO

Flood Zone AE Detail Study Date 8/18/09 Panel#

4080

B.M. Info

Redelineation

Quad Map Cama Drainage Area 24.2 SQ. MI From DASS STA: 211370 962
Q25 3800 CFS Q50 4600 CFS Q100 5300 CFS Method Regression EQ

(SEE sheet attached for Reg. Person)

EXISTING BRIDGE INFORMATION

Location 0.4 MI. E. JCT. SR 1618

Average Daily Traffic 800 YR-1994 TRK: 6%

Length 96 FT. Bed-To Crown 16 FT. Water Depth 2 FT.

Type Structure Timber Floor on I-beams

Type Spans 1@ 25'-6" 1@ 45' 1@ 25'-6"

Upstream Structure 850175 (on SR 1602) 1@ 40'-6"

(AND 850176)
(2 BRANCHES)

Location 1 MI. N JCT. SR 1618

Bed-To Crown 11 ft. WD = 2 ft. Prior Survey

Downstream Structure 850108 (on SR 1602) 1@ 75'-5.5' 1@ 75' 1@ 75'-5.5'

Location 200 FT. W. JCT. SR 1621

Bed-To Crown 24 FT. WD = 3 FT. Prior Survey

SCS Watershed N/A

ENVIRONMENTAL

TVA NO

Trout Stream Yes

Anadromous Fish NO Primary Nursery Area NO

High Quality Waters NO

Nutrient Sensitive Waters NO

Near Water Supply Intake NO

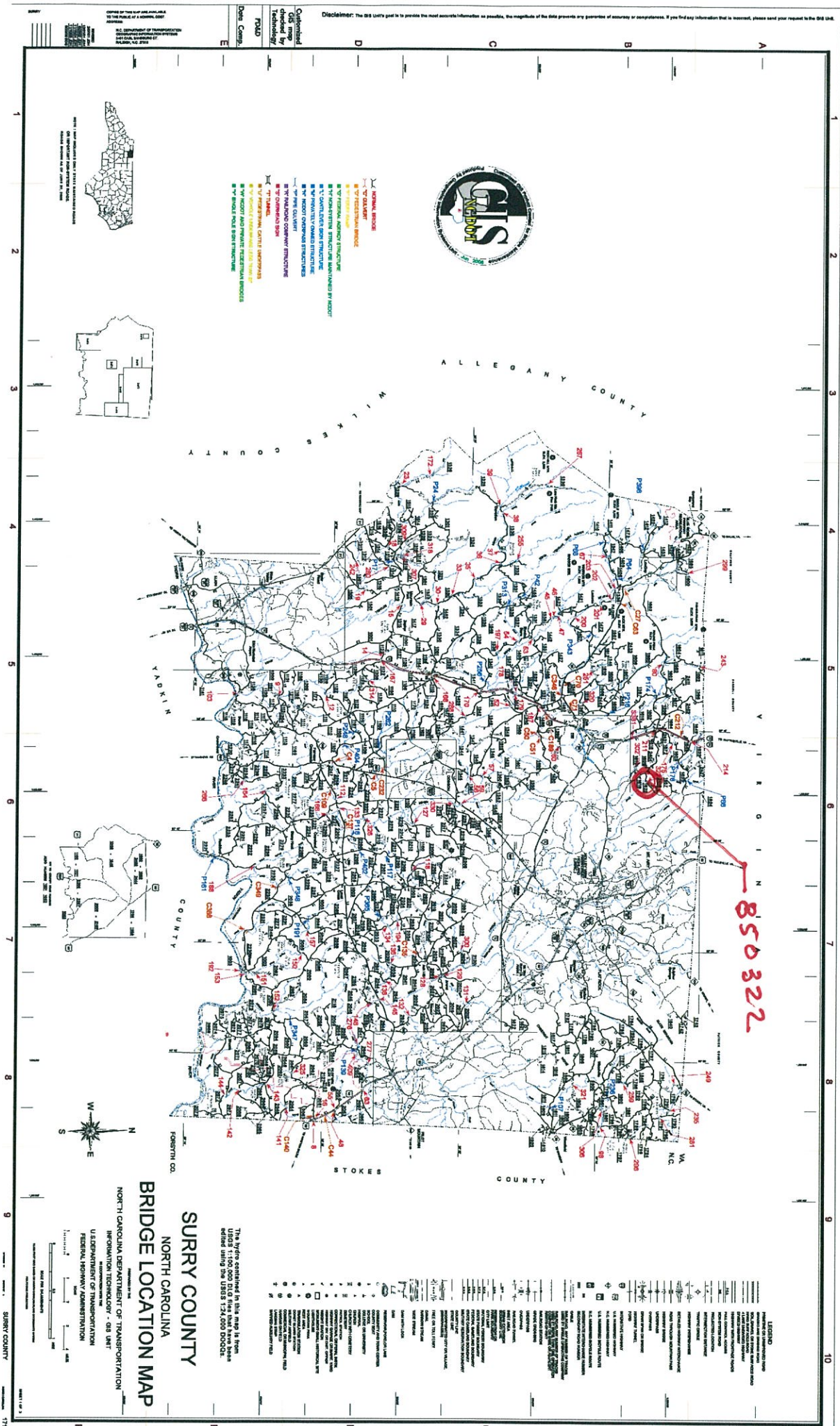
CAMA County NO

Stream Classification WS-IV; Tr 12-72-9-(1) (from NC-Va state line to

DENR River Basin Info.

Yodkin

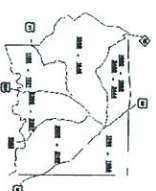
Surry County SR 1622)



850322

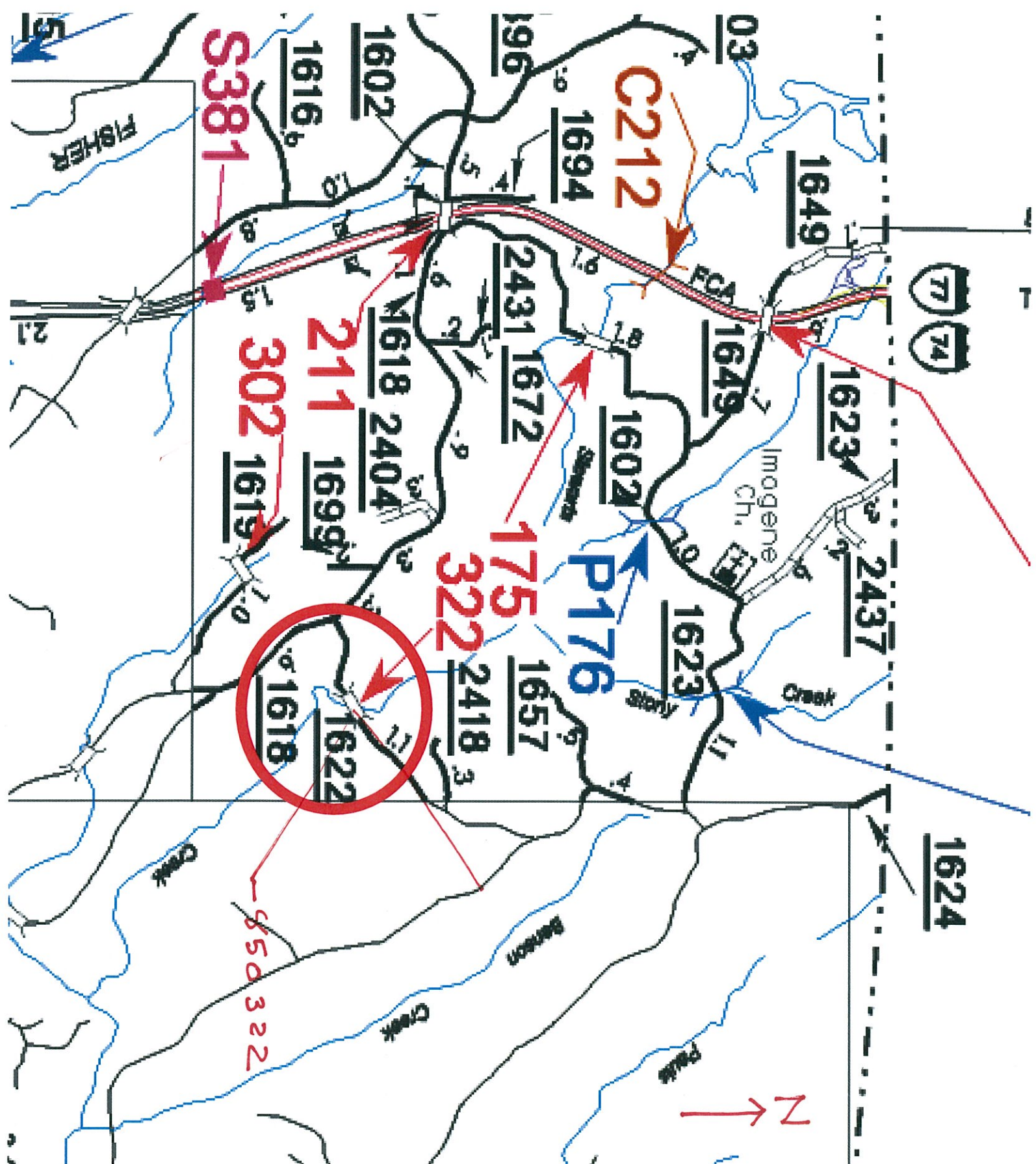


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SURRY COUNTY
NORTH CAROLINA
BRIDGE LOCATION MAP
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
INFORMATION SYSTEMS DIVISION - GIS UNIT
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
The hydro contained in this map is from
the National Hydrographic Survey
dated using the USGS 1:250,000 scale.

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- 2. STATE BRIDGE
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North Carolina StreamStats

Streamstats Ungaged Site Report

Date: Wed Jul 24 2013 08:15:23 Mountain Daylight Time

Site Location: North_Carolina

NAD27 Latitude: 36.5272 (36 31 38)

NAD27 Longitude: -80.7108 (-80 42 39)

NAD83 Latitude: 36.5273 (36 31 38)

NAD83 Longitude: -80.7106 (-80 42 38)

Drainage Area: 24.1 mi²

Percent Urban: 8.3 %

Percent Impervious: 0.9 %

Peak Flows Region Grid Basin Characteristics			
100% Peak Southeast US 2009 5158 (24.1 mi ²)			
Parameter	Value	Regression Equation Valid Range	
		Min	Max
Drainage Area (square miles)	24.1	1	9000
Percent Area in Region 1 (percent)	62.471	0	100
Percent Area in Region 2 (percent)	37.529	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 (24.1 mi ²)			
Parameter	Value	Regression Equation Valid Range	
		Min	Max
Drainage Area (square miles)	24.1	0.04	41
Area of Impervious Surfaces (percent)	0.93 (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	1270	35		733	2200
PK5	2210	34		1280	3800
PK10	2900	35		1660	5070
PK25	3800	38		2100	6890
PK50	4550	40		2430	8510
PK100	5290	42		2740	10200
PK200	5990	44		2990	12000
PK500	7070	48		3360	14900

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	333				
PK5U	661				
PK10U	945				
PK25U	1540				
PK50U	1950				
PK100U	2410				



NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
BRIDGE MANAGEMENT UNIT

ATTENTION

TEMPORARY REPAIRS

BRIDGE INSPECTION REPORT

INSPECTION TYPE: Routine Inspection

COUNTY SURRY BRIDGE NUMBER 850322 INSPECTION CYCLE 2 YRS

ROUTE SR1622 ACROSS STEWARTS CREEK M.P. 0

LOCATION .4 MI.E.JCT.SR1618

SUPERSTRUCTURE TIMBER FLOOR ON I-BEAMS

SUBSTRUCTURE E.BTS:TIM.CAPS/TIM.P&S;INT.BTS:TIM.CAPS/TIM.POST&CONC.SILLS

SPANS 1 @ 25'-6,1 @ 45',1 @ 25'-6

LONGITUDE 80° 42' 39.4"

LATITUDE 36° 31' 38.2"

PRESENT CONDITION FAIR

INVENTORY RATING

INSPECTION DATE 11/03/2009

OPERATING RATING

PRESENT POSTING SV 17 TTST 20 SV 16 TTST 19

PROPOSED POSTING

COMPUTER UPDATE

ANALYSIS DATE

POSTING LETTER DATE

SUFFICIENCY RATING

OTHER SIGNS PRESENT 4 DELINEATORS; 2 ONE LANE BRIDGE



WEST TO 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: 03/24/2010

COUNTY : SURREY	DIV : 11	DIST : 1	STRUCTURE NUMBER : 850322	LENGTH : 96 FEET
ROUTE CARRIED : SR1622		FEATURE INTERSECTED : STEWARTS CREEK		
LOCATED : .4 MI.E.JCT.SR1618		BRIDGE NAME :		
FUNC. CLASS : 09	SYST.ON : NFA	SYST.UNDER : NFA	ADT & YR : 800 1994	RAIL TYPE : LT 227 RT 227
BUILT : 1962	BY : BMU	PROJ :	FED.AID PROJ :	DESIGN LOAD : Other or Unknown
REHAB :	BY :	PROJ :	ALIGNMENT : TAN	SKEW : 120
			LANES : ON 2 UNDER	
NAVIGATION : VC 0.0 FT HC 0.0 FT		HT. CRN. TO BED : 16 FT		WATER DEPTH : 2 FT
SUPERSTRUCTURE : TIMBER FLOOR ON I-BEAMS				
SUBSTRUCTURE : E.BTS:TIM.CAPS/TIM.P&S;INT.BTS:TIM.CAPS/TIM.POST&CONC.SILLS				
SPANS : 1 @ 25'-6,1 @ 45',1 @ 25'-6				
BEAMS OR GIRDERS : SPANS 1&3:9 LINES 12 I-BEAMS;SPAN 2:8 LINES 18 I-BEAMS				
FLOOR : 4X8 TIM/1.5 AWS	ENCROACHMENT :		DECK (OUT TO OUT) : 20.3 FT	
CLEAR ROADWAY : 19.2 FT	BETWEEN RAILS : 19.9 FT		SIDEWALK OR CURB : LT 0.3 FT RT 0.3 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 : (SpA) SecL, (SpB) SecL	POSTED : SV 16 TTST 19 DATE 09/25/2008	
SYSTEM : Secondary S.R. Route			GREEN LINE ROUTE : N	
2ND OPENING :		3RD OPENING :	4TH OPENING :	5TH OPENING :
REMARKS :				

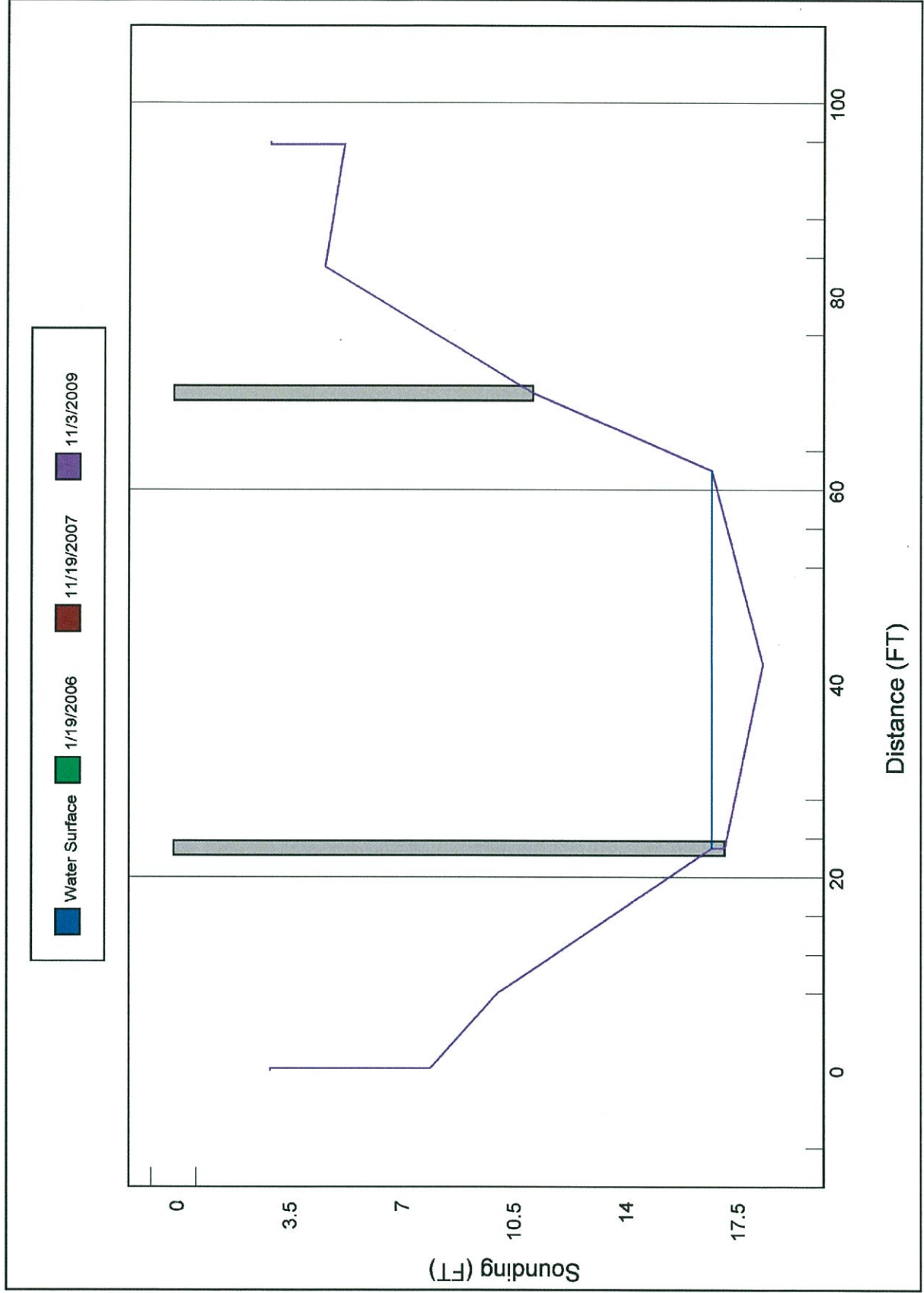
Bridge: 850322

County SURRY

Date: 11/03/2009

STREAMBED PROFILE (Downstream)

Top of Rail = 0 FT (Sounding)





RUST, SCALE AND AREAS OF UP TO 1/16 INCH PITTING ON ALL BEAM FLANGES



NORTH PROFILE



SOUTH PROFILE



EAST FACE OF PIER ONE



Section 4.0 – Area Studied

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

Source	Riverine Sources		Affected Communities
	From	To	
Yadkin River	Approximately 920 feet upstream of Interstate 77	The Wilkes/Surry/Yadkin County boundary	Town of Elkin

¹Revised to reflect backwater effects from a new detailed study

²Revised to reflect flooding controlled by effects from a new detailed study

Table 4, “Flooding Sources Studied by Detailed Methods: Redelineated,” contains a list of flooding sources that were studied by detailed methods for previous FISs, but were only partially revised in the current study. Their effective analyses remain valid; however, their floodplain delineations have been revised on the current FIRM.

Table 4—Flooding Sources Studied by Detailed Methods: Redelineated

Source	Riverine Sources		Affected Communities
	From	To	
Ararat River	Approximately 60 feet downstream of the confluence of Stewarts Creek	Approximately 110 feet downstream of the confluence of Ararat River Tributary 9	City of Mount Airy, Surry County (Unincorporated Areas)
Dutchmans Creek	Approximately 0.6 mile upstream of the confluence with Yadkin River	Approximately 360 feet upstream of Claremont Drive	Town of Elkin
Pauls Creek	The confluence with Stewarts Creek	Approximately 1.6 miles upstream of Miller Road (SR 1625)	City of Mount Airy, Surry County (Unincorporated Areas)
Stewarts Creek	The confluence with Ararat River	Approximately 0.5 mile upstream of Interstate 77	City of Mount Airy, Surry County (Unincorporated Areas)
Tributary D-1	The confluence with Dutchmans Creek	Approximately 1,090 feet upstream of Dutchman Creek Road	Town of Elkin
Tributary E-1	NC Highway 268	Approximately 0.4 mile upstream of NC Highway 268	Town of Elkin
Tumbling Rock Branch	Approximately 1,000 feet upstream of the confluence with Lovills Creek	Approximately 1,000 feet upstream of Boggs Drive	City of Mount Airy

Table 5, “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.

Section 5.0 – Engineering Methods

Table 8—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
South Fork Mitchell River Tributary 2B	At the confluence with South Fork Mitchell River Tributary 2	1.0	*	*	743	*
	Approximately 1,530 feet upstream of Abe Mayes Road (SR 1319)	0.9	*	*	712	*
	Approximately 0.5 mile upstream of Abe Mayes Road (SR 1319)	0.8	*	*	653	*
Stewarts Creek	At the confluence with Ararat River	76.3	7,400	10,900	14,100	23,750
	Just upstream of the confluence of Pauls Creek	33.9	4,100	6,200	8,150	14,450
	Approximately 290 feet downstream of dam	14.9	*	*	707	*
	At dam	14.6	*	*	3,979***	*
	Approximately 1,610 feet upstream of dam	13.5	*	*	3,797***	*
	Approximately 0.8 mile upstream of dam	0.4	*	*	421	*
Stewarts Creek Tributary 1	At the confluence with Stewarts Creek	3.1	*	*	1,515	*
	Approximately 0.7 mile upstream of Mountain View Lane	2.6	*	*	1,361	*
	Approximately 270 feet downstream of West Old McKinney Road (SR 1429)	2.1	*	*	1,201	*
Stewarts Creek Tributary 2	At the confluence with Stewarts Creek	1.0	*	*	804	*
	Approximately 0.5 mile upstream of Sykes Dairy Road	0.9	*	*	755	*

Section 5.0 – Engineering Methods

Table 10—Roughness Coefficients

Stream	Channel "n"	Overbank "n"
Stewarts Creek	0.035 – 0.056	0.055 – 0.130
Stewarts Creek Tributary 1	0.050	0.070 – 0.150
Stewarts Creek Tributary 2	0.050	0.070 – 0.150
Stewarts Creek Tributary 2A	0.050	0.070 – 0.150
Stoney Creek	0.047	0.070 – 0.140
Toms Creek	0.047	0.080 – 0.140
Toms Creek Tributary 1	0.047	0.080 – 0.140
Toms Creek Tributary 1A	0.047	0.080 – 0.140
Toms Creek Tributary 2	0.047	0.080 – 0.140
Tributary D-1	0.045 – 0.100	0.045 – 0.100
Tributary E-1	0.045 – 0.100	0.045 – 0.100
Tumbling Rock Branch	0.040 – 0.060	0.060 – 0.120
Turkey Creek	0.045	0.060 – 0.140
West Double Creek	0.050	0.090 – 0.150
West Double Creek Tributary 1	0.050	0.090 – 0.150
West Double Creek Tributary 1A	0.050	0.090 – 0.130
Whittier Creek	0.040 – 0.060	0.060 – 0.120
Wood Branch	0.050	0.080 – 0.140
Yadkin River	0.035 – 0.047	0.035 – 0.200
Yadkin River Tributary 12	0.045 – 0.052	0.080 – 0.130
Yadkin River Tributary 13	0.035 – 0.047	0.035 – 0.150
Yadkin River Tributary 16	0.050	0.090 – 0.150
Yadkin River Tributary 18	0.045	0.090 – 0.140
Yadkin River Tributary 37	0.045 – 0.052	0.060 – 0.150

N/A = Not available

For flooding sources studied by limited detailed methods in the county, standard hydrologic and hydraulic study methods were used to determine the flood hazard data required for this report and the FIRM panels. This method entails developing a HEC-RAS hydraulic model, resulting in the calculation of BFEs and the delineation of the 1% annual chance floodplain (designated as Zone AE). Cross sections for the flooding sources studied by limited detailed methods were obtained using digital elevation data obtained with LIDAR technology developed as part of the North Carolina Statewide Floodplain Mapping Program. The hydraulic model is prepared using this digital elevation data, without surveying bathymetric or structural data. Where bridge or culvert data are readily available, such as from the North Carolina Department of Transportation, these data have been reflected in the hydraulic model. If these structural data are not readily available, field measurements of these structures were made to approximate their geometry in the hydraulic models. In addition, this method does not include field surveys that determine specifics on channel and floodplain characteristics. A limited detailed study is a "buildable" product that can be upgraded to a fully detailed study at a later date by verifying stream channel characteristics, bridge and culvert opening geometry, and by analyzing multiple recurrence intervals.

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD 88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Stewarts Creek								
349	34,850	412	5,592	2.8	1,043.0	1,043.0	1,044.0	1.0
372	37,150	149	2217	7.1	1,050.7	1,050.7	1,051.7	1.0
400	39,950	1,143	12,174	1.3	1,052.1	1,052.1	1,053.1	1.0
418	41,750	569	5,490	2.9	1,053.5	1,053.5	1,054.5	1.0
443	44,330	114	1,782	9.1	1,057.7	1,057.7	1,058.7	1.0
446	44,630	402	5,498	2.9	1,060.5	1,060.5	1,061.5	1.0
461	46,130	812	4,823	1.4	1,061.0	1,061.0	1,062.0	1.0
466	46,610	681	3,876	1.7	1,061.0	1,061.0	1,062.0	1.0
492	49,235	425	1,828	3.7	1,064.5	1,064.5	1,065.5	1.0
510	50,955	191	1,358	5.0	1,069.8	1,069.8	1,070.8	1.0
550	55,035	292	1,406	3.7	1,083.4	1,083.4	1,084.4	1.0
589	58,875	403 ²	1,420	3.5	1,096.5	1,096.5	1,097.5	1.0
603	60,275	160 ²	885	5.6	1,102.7	1,102.7	1,103.7	1.0
643	64,285	181 ²	1 600	3.0	1,124.5	1,124.5	1,125.5	1.0
664	66,445	356 ²	1,684	2.8	1,132.1	1,132.1	1,133.1	1.0
676	67,605	110 ²	816	5.7	1,138.1	1,138.1	1,139.1	1.0
715	71,525	36 ²	222	4.7	1,151.4	1,151.4	1,152.4	1.0
731	73,085	108 ²	362	2.7	1,160.5	1,160.5	1,161.5	1.0
751	75,085	35	185	4.9	1,173.9	1,173.9	1,174.9	1.0
786	78,595	50	193	3.9	1,193.5	1,193.5	1,194.5	1.0
798	79,835	80	194	3.2	1,208.5	1,208.5	1,209.5	1.0
830	83,035	50	219	2.6	1,220.0	1,220.0	1,221.0	1.0

¹Feet above mouth

² Value is inaccurate, as the floodway has been adjusted in this area to match topographic-based floodplain redelineation

FEDERAL EMERGENCY MANAGEMENT AGENCY

**SURRY COUNTY, NC
AND INCORPORATED AREAS**

TABLE 13

FLOODWAY DATA

STEWARTS CREEK

