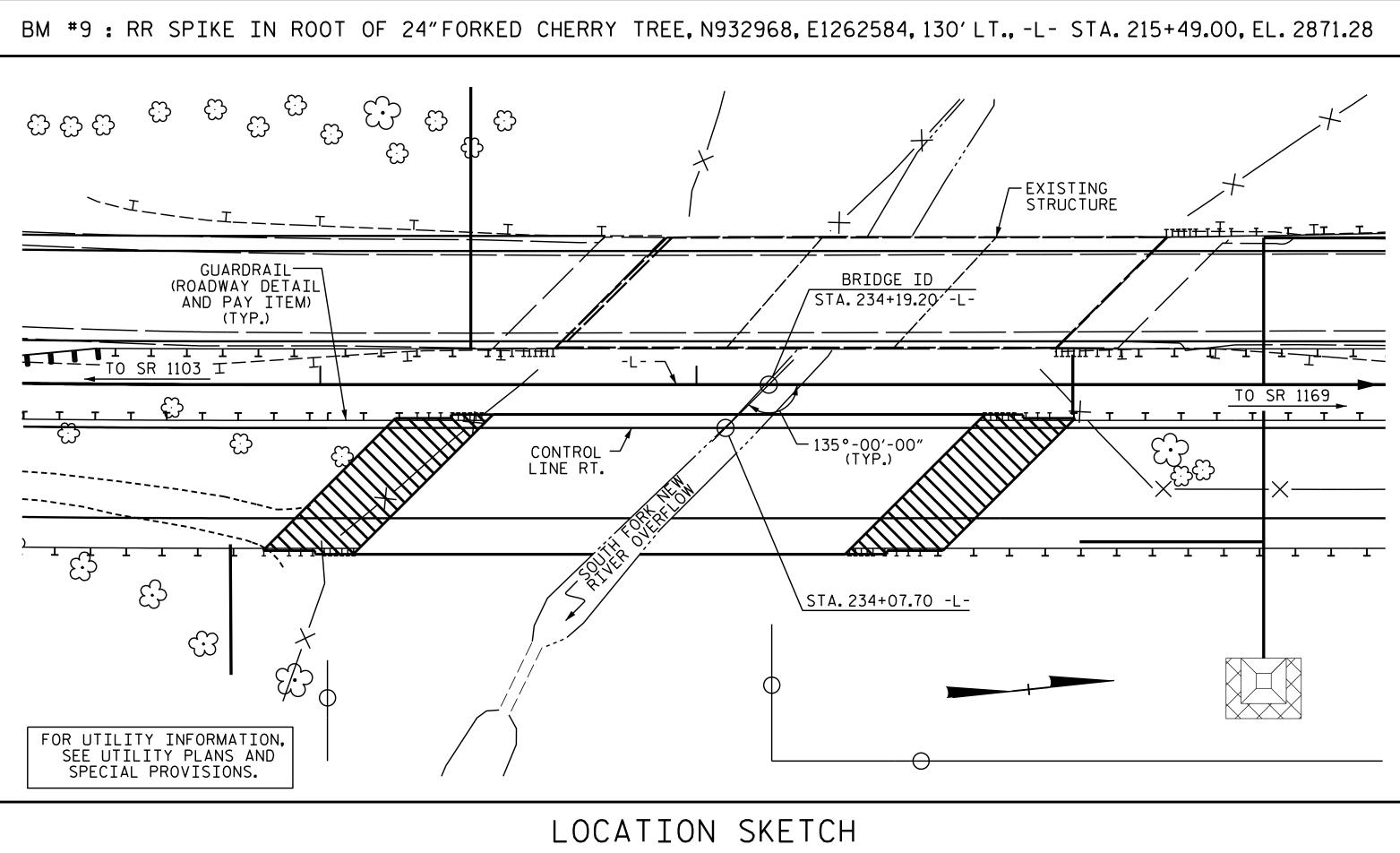
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TOTAL BILL OF MATERIAL									
	3'-O″Ø DRILLED PIERS IN SOIL	3'-O"Ø DRILLED PIERS NOT IN SOIL	SID INSPECTIONS	CSL TESTING	UNCLASSIFIED STRUCTURE EXCAVATION	REINFORCED CONCRETE DECK SLAB	GROOVING BRIDGE FLOORS	CLASS A CONCRETE	BRIDGE APPROACH SLABS
	LIN.FT.	LIN.FT.	EACH	EACH	LUMP SUM	SQ.FT.	SQ.FT.	CU.YDS.	LUMP SUM
SUPERSTRUCTURE						4,862	5,563		LUMP SUM
END BENT NO.1					LUMP SUM			48.0	
BENT NO.1	49.9	41.0	1					30.9	
BENT NO.2	32.7	36.0	1					30.8	
END BENT NO.2								48.0	
TOTAL	82.6	77.0	2	1	LUMP SUM	4,862	5,563	157.7	LUMP SUM

TOTAL BILL OF MATERIAL											
	REINFORCING STEEL	SPIRAL COLUMN REINFORCING STEEL	С	36″ STRESSED ONCRETE SIRDERS		12 X 53 EL PILES	CONCRETE BARRIER RAIL	RIP RAP CLASS II (2'-O" THICK)	GEOTEXTILE FOR DRAINAGE	ELASTOMERIC BEARINGS	EXPANSION JOINT SEALS
	LBS.	LBS.	NO.	LIN.FT.	NO.	LIN.FT.	LIN.FT.	TONS	SQ.YDS.	LUMP SUM	LUMP SUM
SUPERSTRUCTURE			12	506.9			303.6			LUMP SUM	LUMP SUM
END BENT NO.1	6,712				7	189		175	190		
BENT NO.1	9,203	1,970									
BENT NO.2	8,245	1,596									
END BENT NO.2	6,714				7	154		230	255		
TOTAL	30,874	3,566	12	506.9	14	343	303.6	405	445	LUMP SUM	LUMP SUM

DRAWN BY :	DATE :	4/21/14
CHECKED BY :	DATE :	4/23/14
DESIGN ENGINEER OF RECORD :	DATE : .	4/23/14

HYDRAULIC DATA

DESIGN DISCHARGE
FREQUENCY OF DESIGN FLOOD
DESIGN HIGH WATER ELEVATION
DRAINAGE AREA
BASE DISCHARGE (Q100)
BASE HIGH WATER ELEVATION

=	16,000	C.F.S
=	50 YRS	
	~~~~~	

= 2862.2 = 130 SQ.MI. = 19,000 C.F.S.

= 2863.0

# OVERTOPPING FLOOD DATA

OVERTOPPING DISCHARGE
FREQUENCY OF OVERTOPPING FLOOD
OVERTOPPING FLOOD ELEVATION

= 24,000+ C.F.S. = 500 YRS.+ = 2869.2



### NOTES:

ASSUMED LIVE LOAD = HL-93 OR ALTERNATE LOADING.

THIS BRIDGE HAS BEEN DESIGNED IN ACCORDANCE WITH THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS.

THIS BRIDGE IS LOCATED IN SEISMIC ZONE 1.

FOR OTHER DESIGN DATA AND GENERAL NOTES, SEE SHEET SN.

FOR SUBMITTAL OF WORKING DRAWINGS, SEE SPECIAL PROVISIONS.

FOR FALSEWORK AND FORMWORK, SEE SPECIAL PROVISIONS.

FOR CRANE SAFETY, SEE SPECIAL PROVISIONS.

FOR GROUT FOR STRUCTURES, SEE SPECIAL PROVISIONS.

THE CONTRACTOR SHALL PROVIDE INDEPENDENT ASSURANCE SAMPLES OF REINFORCING STEEL AS FOLLOWS: FOR PROJECTS REQUIRING UP TO 400 TONS OF REINFORCING STEEL, ONE 30 INCH SAMPLE OF EACH SIZE BAR USED, AND FOR PROJECTS REQUIRING OVER 400 TONS OF REINFORCING STEEL, TWO 30 INCH SAMPLES OF EACH SIZE BAR USED. THE BARS FROM WHICH THE SAMPLES ARE TAKEN MUST THEN BE SPLICED WITH REPLACEMENT BARS OF THE SIZE AND LENGTH OF THE SAMPLE, PLUS A MINIMUM LAP SPLICE OF THIRTY BAR DIAMETERS. PAYMENT FOR THE SAMPLES OF REINFORCING STEEL SHALL BE CONSIDERED INCIDENTAL TO VARIOUS PAY ITEMS.

REMOVABLE FORMS MAY BE USED IN LIEU OF METAL STAY-IN-PLACE FORMS IN ACCORDANCE WITH ARTICLE 420-3 OF THE STANDARD SPECIFICATIONS.

NEEDLE BEAMS WILL NOT BE ALLOWED UNLESS OTHERWISE CALLED FOR ON THE PLANS OR APPROVED BY THE ENGINEER.

THE CLASS AA CONCRETE IN THE BRIDGE DECK SHALL CONTAIN FLY ASH OR GROUND GRANULATED BLAST FURNACE SLAG AT THE SUBSTITUTION RATE SPECIFIED IN ARTICLE 1024-1 AND IN ACCORDANCE WITH ARTICLES 1024-5 AND 1024-5 OF THE STANDARD SPECIFICATIONS. NO PAYMENT WILL BE MADE FOR THIS SUBSTITUTION AS IT IS CONSIDERED INCIDENTAL TO THE COST OF THE REINFORCED CONCRETE DECK SLAB.

THE MATERIAL SHOWN IN THE CROSS-HATCHED AREA SHALL BE EXCAVATED FOR A DISTANCE OF 21 FT.LEFT AND 9 FT.RIGHT OF BRIDGE WORK LINE AT END BENT 1 AS DIRECTED BY THE ENGINEER. THIS WORK WILL BE PAID AT THE CONTRACT LUMP SUM PRICE FOR UNCLASSIFIED STRUCTURE EXCAVATION. SEE SECTION 412 OF THE STANDARD SPECIFICATIONS.

THIS STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH "HEC 18 EVALUATING SCOUR AT BRIDGES".

FOR EROSION CONTROL MEASURES, SEE EROSION CONTROL PLANS.

	PROJE	CT NO. ASH		-2915  ი	B			
STATION: 234+19.20 -1								
SHEET 3 OF 3 STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATIO RALEIGH GENERAL DRAWING BRIDGE OVER SOUTH FORK NEW RIVER OVERFLOW ON US 221 BETWEEN SR 1103 AND SR 1169 NBI								
ACTION OF THE CAROL NOT THE CA		SHEET NO. SO3-3						
08901A66686470 2/20/2013	NO. BY: 1 2	DATE:	NO. ВҮ: З 4	DATE:	TOTAL SHEETS 30			

1121 Situs Court Suite 170