



STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION

PAT MCCRORY  
GOVERNOR

ANTHONY J. TATA  
SECRETARY

July 19, 2013

ADDENDUM #1

To: Plan Holders

From: Wanda H. Austin, PE  
Proposals Engineer

RE:  
Contract ID: DN00212  
County: Graham  
Letting Date: July 23, 2013

The pay items for the Class II Rip Rap and Geotextile Fabric associated with the placement thereof were omitted from the bid sheet. Replace the downloaded bid sheet with the one attached. Also replace the Structural General Drawing sheets 1 and 3 with the attached plan sheets.

Please insert this letter into the addendum section at the end of the proposal and sign the verification. Thank you for your attention to this matter.

*Fourteenth Division Office*

Phone: (828)586-2141

253 Webster Road, Sylva, North Carolina 28779

Fax: (828)586-4043

County : Graham

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
<b>ROADWAY ITEMS</b>						
0001	0000100000-N	800	MOBILIZATION	Lump Sum	L.S.	
0002	0000400000-N	801	CONSTRUCTION SURVEYING	Lump Sum	L.S.	
0003	0030000000-N	SP	BRIDGE APPROACH FILL - SUB REGIONAL TIER, STATION ***** (STA 12+37.00)	Lump Sum	L.S.	
0004	0043000000-N	226	GRADING	Lump Sum	L.S.	
0005	0050000000-E	226	SUPPLEMENTARY CLEARING & GRUB-BING	1 ACR		
0006	0057000000-E	226	UNDERCUT EXCAVATION	50 CY		
0007	0195000000-E	265	SELECT GRANULAR MATERIAL	50 CY		
0008	0196000000-E	270	GEOTEXTILE FOR SOIL STABILIZATION	50 SY		
0009	0318000000-E	300	FOUNDATION CONDITIONING MATERIAL, MINOR STRUCTURES	10 TON		
0010	0320000000-E	300	FOUNDATION CONDITIONING GEOTEXTILE	20 SY		
0011	0594000000-E	310	24" CS PIPE CULVERTS, 0.064" THICK	32 LF		
0012	1220000000-E	545	INCIDENTAL STONE BASE	70 TON		
0013	1489000000-E	610	ASPHALT CONC BASE COURSE, TYPE B25.0B	215 TON		
0014	1525000000-E	610	ASPHALT CONC SURFACE COURSE, TYPE SF9.5A	95 TON		
0015	1575000000-E	620	ASPHALT BINDER FOR PLANT MIX	16 TON		
0016	2209000000-E	838	ENDWALLS	1.4 CY		
0017	2556000000-E	846	SHOULDER BERM GUTTER	12 LF		
0018	2570000000-N	SP	MODIFIED CONCRETE FLUME	1 EA		

County : Graham

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0019	3420000000-E	SP	GENERIC GUARDRAIL ITEM (PAINTED GALVANIZED SBGR SHOP CURVED)	25 LF		
0020	3420000000-E	SP	GENERIC GUARDRAIL ITEM (PAINTED GALVANIZED STL BM GUA RDRAIL)	37.5 LF		
0021	3435000000-N	SP	GENERIC GUARDRAIL ITEM (PAINTED GALVANIZED ADDIT GUAR DRAIL POST)	5 EA		
0022	3435000000-N	SP	GENERIC GUARDRAIL ITEM (PAINTED GALVANIZED GRAU TYPE 350, TL-2)	3 EA		
0023	3435000000-N	SP	GENERIC GUARDRAIL ITEM (PAINTED GALVANIZED GRAU TYPE AT-1)	1 EA		
0024	3435000000-N	SP	GENERIC GUARDRAIL ITEM (PAINTED GALVANIZED GRAU TYPE III SHOP CURVED)	3 EA		
0025	3435000000-N	SP	GENERIC GUARDRAIL ITEM (PAINTED GALVANIZED GRAU TYPE III)	1 EA		
0026	3649000000-E	876	RIP RAP, CLASS B	6 TON		
0027	3656000000-E	876	GEOTEXTILE FOR DRAINAGE	135 SY		
0028	4400000000-E	1110	WORK ZONE SIGNS (STATIONARY)	136 SF		
0029	4405000000-E	1110	WORK ZONE SIGNS (PORTABLE)	16 SF		
0030	4410000000-E	1110	WORK ZONE SIGNS (BARRICADE MOUNTED)	35 SF		
0031	4435000000-N	1135	CONES	20 EA		
0032	4445000000-E	1145	BARRICADES (TYPE III)	40 LF		
0033	6000000000-E	1605	TEMPORARY SILT FENCE	887 LF		
0034	6006000000-E	1610	STONE FOR EROSION CONTROL, CLASS A	35 TON		

County : Graham

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0035	6009000000-E	1610	STONE FOR EROSION CONTROL, CLASS B	6 TON		
0036	6012000000-E	1610	SEDIMENT CONTROL STONE	90 TON		
0037	6015000000-E	1615	TEMPORARY MULCHING	0.5 ACR		
0038	6018000000-E	1620	SEED FOR TEMPORARY SEEDING	50 LB		
0039	6021000000-E	1620	FERTILIZER FOR TEMPORARY SEED- ING	0.25 TON		
0040	6030000000-E	1630	SILT EXCAVATION	6 CY		
0041	6036000000-E	1631	MATTING FOR EROSION CONTROL	880 SY		
0042	6042000000-E	1632	1/4" HARDWARE CLOTH	170 LF		
0043	6070000000-N	1639	SPECIAL STILLING BASINS	2 EA		
0044	6084000000-E	1660	SEEDING & MULCHING	0.5 ACR		
0045	6090000000-E	1661	SEED FOR REPAIR SEEDING	50 LB		
0046	6093000000-E	1661	FERTILIZER FOR REPAIR SEEDING	0.25 TON		
0047	6096000000-E	1662	SEED FOR SUPPLEMENTAL SEEDING	50 LB		
0048	6108000000-E	1665	FERTILIZER TOPDRESSING	0.25 TON		
0049	6117000000-N	SP	RESPONSE FOR EROSION CONTROL	6 EA		

**STRUCTURE ITEMS**

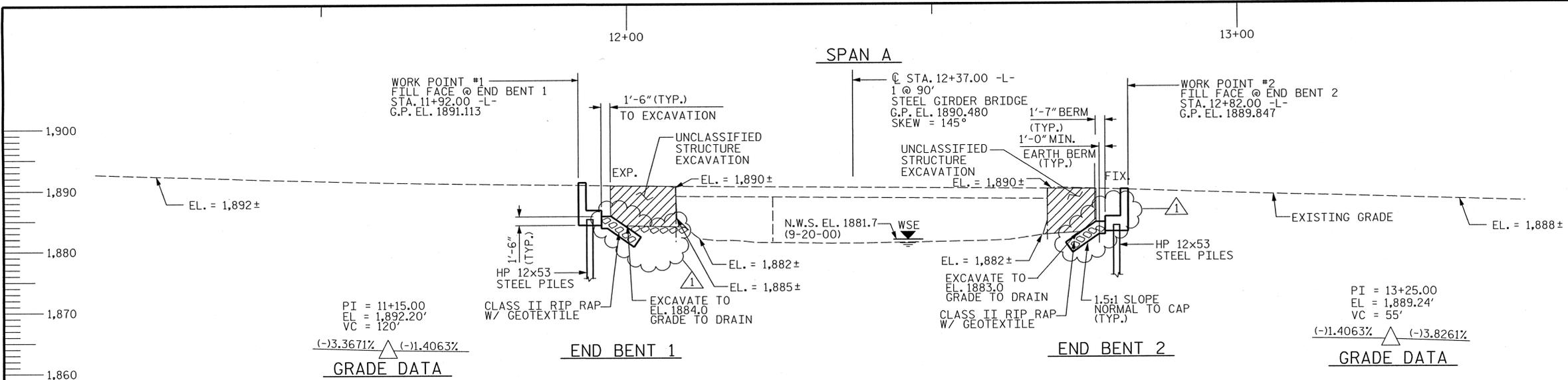
0050	8035000000-N	402	REMOVAL OF EXISTING STRUCTURE AT STATION ***** (STA 12+37.00)	Lump Sum	L.S.	
0051	8096000000-E	450	PILE EXCAVATION IN SOIL	37 LF		

County : Graham

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0052	8097000000-E	450	PILE EXCAVATION NOT IN SOIL	63 LF		
0053	8121000000-N	412	UNCLASSIFIED STRUCTURE EXCAVATION AT STATION ***** (STA 12+37.00)	Lump Sum	L.S.	
0054	8147000000-E	420	REINFORCED CONCRETE DECK SLAB	1,582 SF		
0055	8161000000-E	420	GROOVING BRIDGE FLOORS	1,021 SF		
0056	8182000000-E	420	CLASS A CONCRETE (BRIDGE)	54.3 CY		
0057	8217000000-E	425	REINFORCING STEEL (BRIDGE)	8,095 LB		
0058	8280000000-E	440	APPROX ..... LBS STRUCTURAL STEEL	1 LS		
0059	8364000000-E	450	HP12X53 STEEL PILES	100 LF		
0060	8475000000-E	460	TWO BAR METAL RAIL	150.6 LF		
0061	8517000000-E	460	1'-***"X ***** CONCRETE PARAPET (1'-8" X 9")	170.7 LF		
0062	8657000000-N	430	ELASTOMERIC BEARINGS	Lump Sum	L.S.	
0063	8692000000-N	SP	FOAM JOINT SEALS	Lump Sum	L.S.	
0064	8608000000-E	876	RIP RAP CLASS II (2'-0" THICK)	125 TON		
0065	8622000000-E	876	GEOTEXTILE FOR DRAINAGE	140 SY		

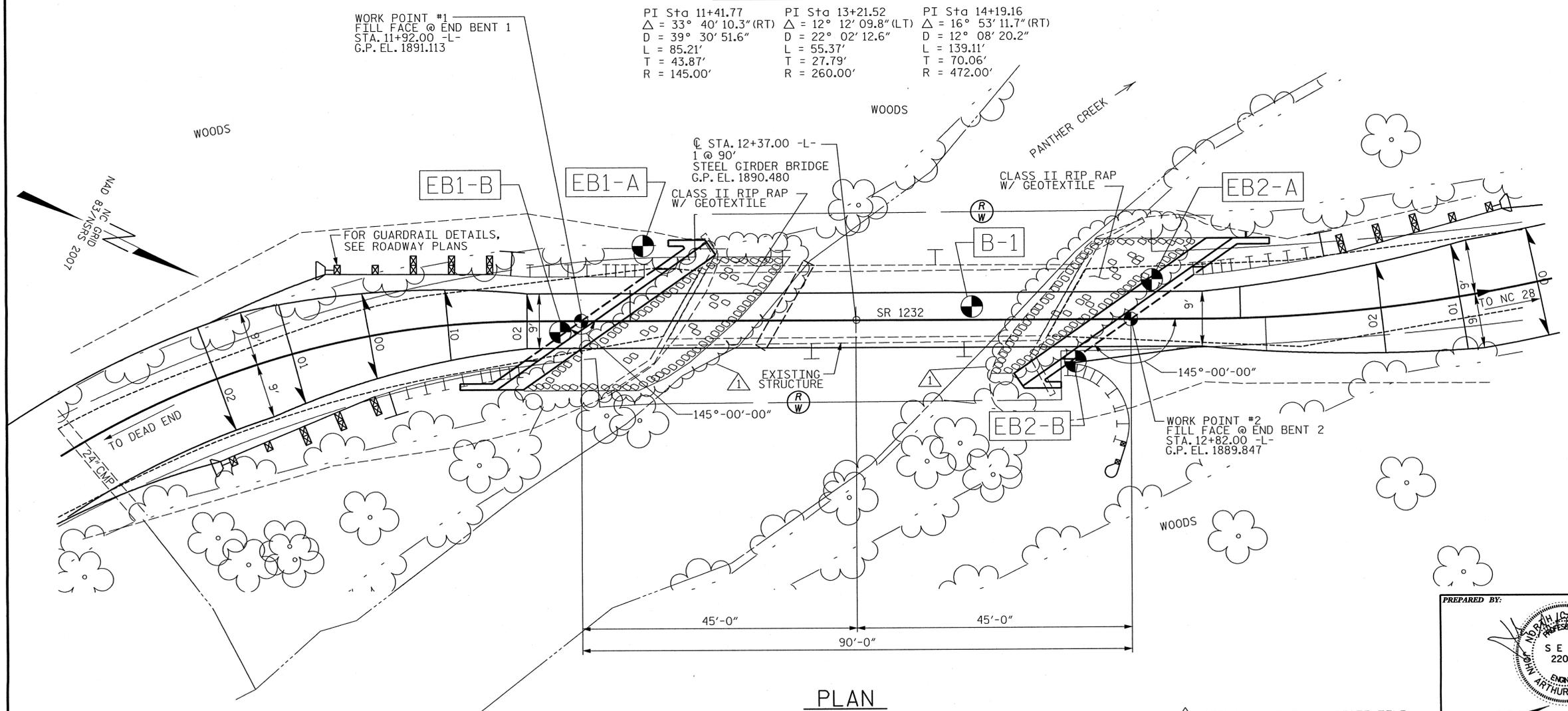
1421/Jul19/Q14868.25/D304480500000/E65

Total Amount Of Bid For Entire Project :



**HORIZONTAL CURVE DATA**

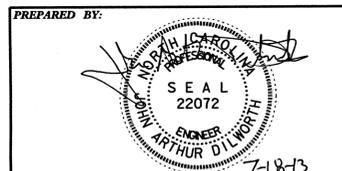
PI Sta	Delta	D	L	T	R
11+41.77	33° 40' 10.3" (RT)	39' 30" 51.6"	85.21'	43.87'	145.00'
13+21.52	12° 12' 09.8" (LT)	22' 02" 12.6"	55.37'	27.79'	260.00'
14+19.16	16° 53' 11.7" (RT)	12' 08" 20.2"	139.11'	70.06'	472.00'



PROJECT NO. B-3457  
 COUNTY GRAHAM  
 STATION: 12+37.00 -L-  
 SHEET 1 of 3 REPLACES BRIDGE 68

STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 RALEIGH

**GENERAL DRAWING**  
 FOR BRIDGE ON SR 1232  
 (PANTHER CREEK ROAD)  
 OVER PANTHER CREEK  
 BETWEEN DEAD END RD. AND NC 28



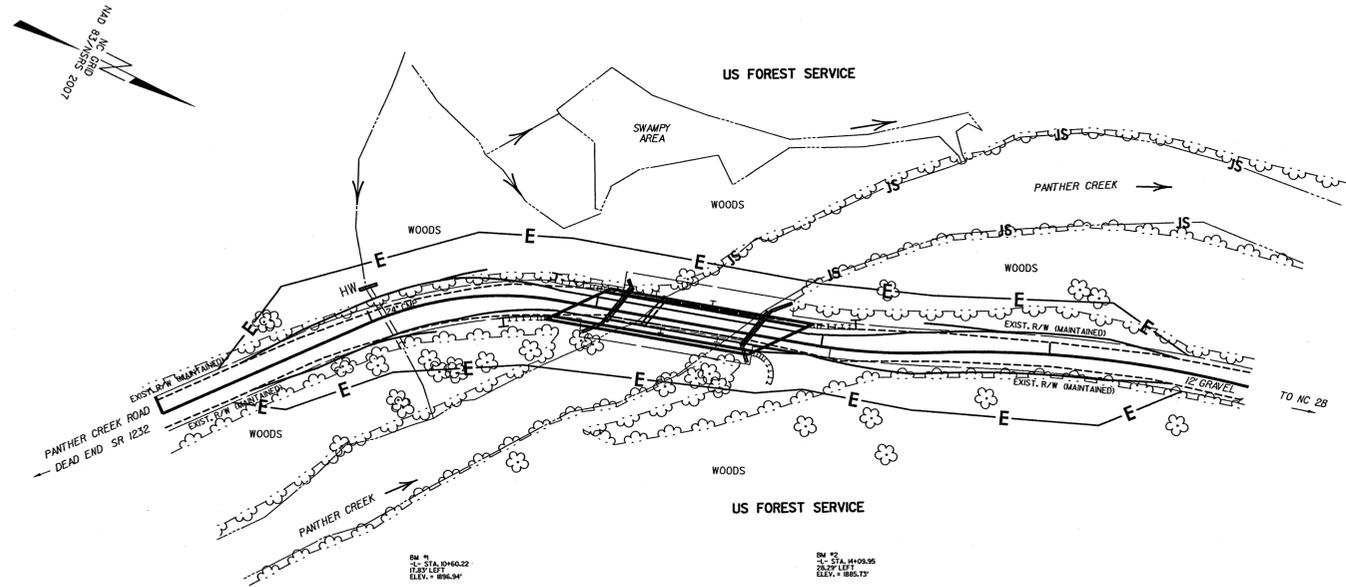
PREPARED BY: ETHERILL ENGINEERING  
 559 Jones Franklin Rd. Suite 164  
 Raleigh, N.C. 27606  
 Bus: 919 851 8077  
 Lic: F-43377

REVISIONS				SHEET NO.	
NO.	BY:	DATE:	NO.	BY:	DATE:
1	JCP	7-18-13	3		
2			4		

SHEET NO. S-1  
TOTAL SHEETS 22

DRAWN BY: J. PENDERGRAFT DATE: 9/2011  
 CHECKED BY: J. DILWORTH DATE: 9/2011

BM #1: BL STA. 5+01.51 11' LT. EL.=1896.94' RR SPIKE IN 15" POPLAR  
 BM #2 BL STA. 8+50.17 34' LT. EL.=1885.73' RR SPIKE IN 15" MAPLE



LOCATION SKETCH

HYDRAULIC DATA

DESIGN DISCHARGE = 1,760 C.F.S.  
 FREQUENCY OF DESIGN FLOOD = 25 YRS.  
 DESIGN HIGH WATER ELEVATION = 1884.5  
 DRAINAGE AREA = 7.4 SQ. MI.  
 BASIC DISCHARGE (Q100) = 2,640 C.F.S.  
 BASIC HIGH WATER ELEVATION = 1885.7 FT.

OVERTOPPING FLOOD DATA

OVERTOPPING DISCHARGE = 3,075 C.F.S.  
 FREQUENCY OF OVERTOPPING FLOOD = 200 YRS.  
 OVERTOPPING FLOOD ELEVATION = 1889.4

NOTES

ASSUMED LIVE LOAD = HS-20 OR ALTERNATE LOADING EXCEPT THAT THE GIRDERS HAVE BEEN DESIGNED FOR HS-25.  
 FOR OTHER DESIGN DATA AND GENERAL NOTES, SEE "STANDARD NOTES" SHEET.  
 FOR EROSION CONTROL MEASURES, SEE EROSION CONTROL PLANS.  
 THIS BRIDGE HAS BEEN DESIGNED BY THE STRENGTH DESIGN METHOD AS SPECIFIED IN THE AASHTO STANDARD BRIDGE DESIGN SPECIFICATIONS.  
 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 1025-5 AND 1024-G 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.  
 ALL STRUCTURAL STEEL SHALL BE AASHTO M270 GRADE 50 AND PAINTED IN ACCORDANCE WITH SYSTEM 1 OF ARTICLE 442-8 OF THE STANDARD SPECIFICATIONS, UNLESS OTHERWISE NOTED ON THE PLANS. THE COLORS OF THE INTERMEDIATE AND TOP COAT SHALL BE REVERSED. THE TOP COAT COLOR SHALL BE BROWN (FS 30045).  
 THE EXISTING BRIDGE SUPERSTRUCTURE CONSISTS OF TWO SPANS AT 45'-7" AND 16'-7" WITH TIMBER DECK ON I-BEAMS AND TIMBER JOIST. THE CLEAR ROADWAY WIDTH IS 11'-2". THE SUBSTRUCTURE CONSISTS OF MASONRY ABUTMENTS AND A TIMBER INTERIOR BENT WITH CONCRETE SILL. THE EXISTING STRUCTURE IS LOCATED AT THE SITE OF THE PROPOSED STRUCTURE AND SHALL BE REMOVED. THE EXISTING BRIDGE IS PRESENTLY POSTED BELOW THE LEGAL LOAD LIMIT. SHOULD THE STRUCTURAL INTEGRITY OF THE BRIDGE FURTHER DETERIORATE, THIS LOAD LIMITATION MAY BE REDUCED AS FOUND NECESSARY DURING THE LIFE OF THE PROJECT.

REMOVAL OF THE EXISTING BRIDGE SHALL BE PERFORMED SO AS NOT TO ALLOW DEBRIS TO FALL INTO THE WATER. THE CONTRACTOR SHALL REMOVE THE BRIDGE AND SUBMIT PLANS FOR DEMOLITION IN ACCORDANCE WITH ARTICLE 402-2 OF THE STANDARD SPECIFICATIONS.  
 THE MATERIAL SHOWN IN THE CROSS-HATCHED AREA ON SHEET 1 OF 3 SHALL BE EXCAVATED FOR A DISTANCE OF 25' LEFT AND 25' RIGHT OF CENTERLINE ROADWAY AS DIRECTED BY THE ENGINEER. THIS WORK WILL BE MEASURED AND PAID FOR AT THE LUMP SUM CONTRACT PRICE FOR UNCLASSIFIED STRUCTURE EXCAVATION.  
 INASMUCH AS THE PAINT SYSTEM ON THE EXISTING STRUCTURAL STEEL CONTAINS LEAD, THE CONTRACTOR'S ATTENTION IS DIRECTED TO ARTICLE 107-1 OF THE STANDARD SPECIFICATIONS. ANY COSTS RESULTING FROM COMPLIANCE WITH APPLICABLE STATE OR FEDERAL REGULATIONS PERTAINING TO HANDLING OF MATERIALS CONTAINING LEAD BASED PAINT SHALL BE INCLUDED IN THE BID PRICE FOR "REMOVAL OF EXISTING STRUCTURE AT STATION 12+37.00 -L-."  
 THE SUBSTRUCTURE OF THE EXISTING BRIDGE INDICATED ON THE PLANS IS FROM THE BEST INFORMATION AVAILABLE. SINCE THIS INFORMATION IS SHOWN FOR THE CONVENIENCE OF THE CONTRACTOR, THE CONTRACTOR SHALL HAVE NO CLAIM WHATSOEVER AGAINST THE DEPARTMENT OF TRANSPORTATION FOR ANY DELAYS OR ADDITIONAL COST INCURRED BASED ON DIFFERENCES BETWEEN THE EXISTING BRIDGE SUBSTRUCTURE SHOWN ON THE PLANS AND THE ACTUAL CONDITIONS AT THE PROJECT SITE.  
 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.  
 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.  
 TEMPORARY EASEMENT IS AVAILABLE ALONG SR 1232 AT MILEPOST 1.7 TO FACILITATE THE DELIVERY OF BRIDGE SUPERSTRUCTURE COMPONENTS.  
 FOR PLACING LOAD ON STRUCTURE MEMBERS, SEE SPECIAL PROVISIONS.

TOTAL BILL OF MATERIAL

	REMOVAL OF EXISTING STRUCTURE	PILE EXCAVATION IN SOIL	PILE EXCAVATION NOT IN SOIL	UNCLASSIFIED STRUCTURE EXCAVATION	REINFORCED CONCRETE DECK SLAB	GROOVING BRIDGE FLOORS	CLASS A CONCRETE	REINFORCING STEEL	STRUCTURAL STEEL	HP 12 X 53 STEEL PILES	1'-8" X 9" CONCRETE PARAPET	RIP RAP CLASS II (2'-0" THICK)	GEOTEXTILE FOR DRAINAGE	ELASTOMERIC BEARINGS	FOAM JOINT SEALS	SPECIAL STEEL 2 BAR METAL RAIL	
	LUMP SUM	LIN. FT.	LIN. FT.	LUMP SUM	SQ. FT.	SQ. FT.	CU. YDS.	LBS.	APPROX. LBS.	NO.	LIN. FT.	LIN. FT.	TONS	SQ. YDS.	LUMP SUM	LUMP SUM	LIN. FT.
SUPERSTRUCTURE					1,582	1,021			41,100		170.70			LUMP SUM	LUMP SUM	150.60	
END BENT NO.1		25.0	25.0				27.4	4111		5	50		75	85			
END BENT NO.2		12.0	38.0				26.9	4041		5	50		50	55			
TOTAL	LUMP SUM	37.0	63.0	LUMP SUM	1,582	1,021	54.3	8152	41,100	10	100	170.70	125	140	LUMP SUM	LUMP SUM	150.60

PROJECT NO. B-3457  
 GRAHAM COUNTY  
 STATION: 12+37.00 -L-

SHEET 3 of 3

STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 RALEIGH  
 GENERAL DRAWING  
 FOR BRIDGE ON SR 1132  
 (CALDWELL ROAD)  
 OVER PANTHER CREEK  
 BETWEEN DEAD END RD. AND NC 28

PREPARED BY:  
  
 559 Jones Franklin Rd. Suite 164  
 Raleigh, N.C. 27608  
 Bus: 919 851 8077  
 Fax: 919 851 8077  
 License: F-0377  
 7-18-13  
 WETHERILL ENGINEERING  
 TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN  
 CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

ADDED RIP RAP AND GEOTEXTILE

DRAWN BY: Z. PIATEK DATE: 2/12  
 CHECKED BY: I. DIFFEE DATE: 2/12

REVISIONS					SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:
1	JCP	7-18-13	3		
2			4		

TOTAL SHEETS: 22

P:\2010\1012\101 B-3457 Structures\OGM\B3457\_STR\_603\_S-03.dgn  
 7/18/2013 2:54:42 PM