



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

BEVERLY EAVES PERDUE
GOVERNOR

EUGENE A. CONTI, JR.
SECRETARY

May 31, 2011

****ADDENDUM TO BID OPENING DATE****

To: Prospective Bidders that attended the pre-bid conference at 1:00 p.m. on Monday, May 16, 2011 in the Chief Engineer's conference room at the Bridge Management

Project No. DO00121 (B-4232) Pitt County Replacement of Bridge No. 9

Project No. DO00122 (B-4644) Stanly County Replacement of Bridge No. 57

The bid opening date, for the above two projects, has been changed due to the following revisions for Pitt Co. Bridge No. 9 and are attached:

- Adding a bid item for the Impact attenuator, adding a bid item for guardrail anchor unit, type AT-1, adding a bid item for galvanized steel piles and editing the quantity for bid item guardrail anchor unit, type B-77.
- Special Provision for the Impact Attenuator Units, type 350.
- Revised plan sheet No's. 4, 17 & 29 reflecting the changes above.

There are no revisions to Stanly Co. Bridge No. 57.

Please, submit the complete proposals as indicated in the contracts and as per the minutes of the pre-bid conference. Sealed bids for the subject projects will be opened in the Conference Room (NC Department of Transportation, State Road Management Unit), Bridge Management Unit, 4809 Beryl Road, Raleigh, NC at **2:00 p.m. on Wednesday, June 8, 2011**. No bids will be received after 2:00 p.m. Bids submitted on the same day they are to be opened shall be delivered to the Bridge Management Unit at 4809 Beryl Road in Raleigh. Bids received for the let date June 2, 2011 will be returned un-opened.

This addendum is posted online at: <http://www.ncdot.gov/business/letting/bridge/>

Any questions, please call Zaki Wafa, POC, Bridge Management Unit, at (919) 835-8255.

MAILING ADDRESS:
Bridge Management Unit
1565 Mail Service Center
Raleigh, NC 27699-1565

Telephone: 919-733-4362
FAX: 919-733-2348

WEBSITE: www.doh.dot.state.nc.us

LOCATION
4809 Beryl Road
Raleigh, NC 27606

BID FORM

REVISED 5-31-2011

CONTRACT COST PROPOSAL

The Contractor agrees to provide the services outlined in this proposal for the following fixed price:

BRIDGE REPLACEMENT WITH PRESTRESSED CORED SLABS

LINE #	ITEM NUMBER	SEC #	DESCRIPTION	QUANTITY	UNIT COST	AMOUNT
1.	0000100000-N	800	MOBILIZATION	L.S.	_____	_____
2.	0030000000-N	SP	REINFORCED BRIDGE APPR FILL, STA. 16+14.55	L.S.	_____	_____
3.	0063000000-N	SP	GRADING	L.S.	_____	_____
4.	0196000000-E	270	FABRIC FOR SOIL STABILIZATION	925 S. Y.	_____	_____
5.	0318000000-E	SP	FOUNDATION CONDITIONING MATERIAL, MINOR STRUCTURES	23 TONS	_____	_____
6.	0330000000-E	SP	GENERIC DRAINAGE ITEM FOUNDATION CONDITIONING MATERIAL, MINOR STRUCTURES	39.22 TONS	_____	_____
7.	0366000000-E	SP	15" RC PIPE CULVERTS, CLASS III	140 LIN. FT.	_____	_____
8.	0372000000-E	SP	18" RC PIPE CULVERTS, CLASS III	72 LIN. FT.	_____	_____
9.	1489000000-E	610	ASPHALT CONCRETE BASE COURSE, TYPE B25.0B	1455 TONS	_____	_____
10.	1519000000-E	610	ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B	540 TONS	_____	_____
11.	1560000000-E	620	ASPHALT BINDER FOR PLANT MIX, TYPE PG64-22	95 TONS	_____	_____
12.	2286000000-N	840	MASONRY DRAINAGE STRUCTURES	2 EACH	_____	_____
13.	2367000000-N	840	FRAME WITH TWO GRATES, STD. 840.29	2 EACH	_____	_____
14.	2696000000-E	SP	2'-9" PRECAST CONCRETE BARRIER RAIL	160.0 LIN. FT.	_____	_____
15.	3030000000-E	862	STEEL BM GUARDRAIL	462.5 LIN. FT.	_____	_____

WBS ELEMENT: 33575.3.1

Pitt County. Br. #9

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LINE #	ITEM NUMBER	SEC #	DESCRIPTION	QUANTITY	UNIT COST	AMOUNT
16.	3045000000-E	862	STEEL BM GUARDRAIL, SHOP CURVED	25 LIN. FT.	_____	_____
17.	3165000000-N	SP	GR ANCHOR UNITS, TYPE IA-350	1 EACH	_____	_____
18.	3195000000-N	862	GR ANCHOR UNITS, TYPE AT-1	1 EACH	_____	_____
19.	3270000000-N	SP	GR ANCHOR UNITS, TYPE 350	4 EACH	_____	_____
20.	3317000000-N	862	GR ANCHOR UNITS, TYPE B-77	3 EACH	_____	_____
21.	3656000000-E	876	FILTER FABRIC FOR DRAINAGE	347 S. Y.	_____	_____
22.	5325600000-E	1510	6" WATER LINE	845 LIN. FT.	_____	_____
23.	5540000000-E	1515	6" VALVE	2 EACH	_____	_____
24.	5798000000-E	1530	ABANDON 4" UTILITY PIPE	834 LIN. FT.	_____	_____
25.	5871400000-E	1550	TRENCHLESS INSTALLATION OF 6" IN SOIL	238 LIN. FT.	_____	_____
26.	5871410000-E	1550	TRENCHLESS INSTALLATION OF 6" NOT IN SOIL	237 LIN. FT.	_____	_____
27.	6000000000-E	1605	TEMPORARY SILT FENCE	2600 LIN. FT.	_____	_____
28.	6006000000-E	1610	STONE FOR EROSION CONTROL, CLASS A	170 TONS	_____	_____
29.	6009000000-E	1610	STONE FOR EROSION CONTROL, CLASS B	75 TONS	_____	_____
30.	6012000000-E	1610	SEDIMENT CONTROL STONE	20 TONS	_____	_____
31.	6024000000-E	1622	TEMPORARY SLOPE DRAINS	200 LIN. FT.	_____	_____
32.	6027000000-N	1622	INLET PROTECTION AT TEMPORARY SLOPE DRAINS	4 EACH	_____	_____
33.	6029000000-E	SP	SAFETY FENCE	200 LIN. FT.	_____	_____

WBS ELEMENT: 33575.3.1

Pitt County. Br. #9

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LINE #	ITEM NUMBER	SEC #	DESCRIPTION	QUANTITY	UNIT COST	AMOUNT
34.	6030000000-E	1630	SILT EXCAVATION	110 C.Y.	_____	_____
35.	6036000000-E	1631	MATTING FOR EROSION CONTROL	200 S.Y.	_____	_____
36.	6042000000-E	1632	¼" HARDWARE CLOTH	50 LIN. FT.	_____	_____
37.	6123000000-E	1670	REFORESTATION	0.1 ACR.	_____	_____
38.	6135000000-E	SP	GENERIC EROSION CONTROL ITEM (SEEDING AND MULCHING)	0.5 ACR.	_____	_____
39.	8035000000-N	402	REMOVAL EXISTING STRUCTURE AT STA. 16+14.55	L.S.	_____	_____
40.	8121000000-N	412	UNCLASSIFIED STRUCTURE EXCAVATION AT STA. 16+14.55	L.S.	_____	_____
41.	8182000000-E	420	CLASS A CONCRETE (BRIDGE)	47.7 C.Y.	_____	_____
42.	8210000000-N	422	BRIDGE APPROACH SLAB, STA. 16+14.55	L.S.	_____	_____
43.	8217000000-E	425	REINFORCING STEEL (BRIDGE)	7,546 LB.	_____	_____
44.	8364000000-E	SP	HP 12x53 STEEL PILES	1240 LIN. FT.	_____	_____
45.	8365000000-E	SP	HP 12x53 GALVANIZED STEEL PILES	225 LIN. FT.	_____	_____
46.	8594000000-E	876	RIP RAP CLASS B	2 TONS	_____	_____
47.	8608000000-E	876	RIP RAP CLASS II (2'-0" THICK)	225 TONS	_____	_____
48.	8622000000-E	876	FILTER FABRIC FOR DRAINAGE	200 S.Y.	_____	_____
49.	8657000000-N	430	ELASTOMERIC BEARINGS	L.S.	_____	_____
50.	8762000000-E	430	3'-0"X1'-9" PRESTRESSED CONCRETE CORED SLABS	1,200.0 LIN. FT.	_____	_____

TOTAL PROJECT BID _____

IMPACT ATTENUATOR UNITS, TYPE 350:

(4-20-04) (Rev 7-18-06)

SP8 R75

Description

Furnish and install impact attenuator units and any components necessary to connect the impact attenuator units in accordance with the manufacturer's requirement, the details in the plans and at locations shown in the plans.

Materials

NON-GATING IMPACT ATTENUATOR UNITS:

The impact attenuator unit (QUADGUARD) as manufactured by:

Energy Absorption Systems, Inc.
One East Wacker Drive
Chicago, Illinois 60601-2076
Telephone: 312-467-6750

The impact attenuator unit (TRACC) as manufactured by:

Trinity Industries, Inc.
2525 N. Stemmons Freeway
Dallas, Texas 75207
Telephone: 800-644-7976

GATING IMPACT ATTENUATOR UNITS:

The impact attenuator unit (BRAKEMASTER) as manufactured by:

Energy Absorption Systems, Inc.
One East Wacker Drive
Chicago, Illinois 60601-2076
Telephone: 312-467-6750

The impact attenuator unit (CAT) as manufactured by:

Trinity Industries, Inc.
2525 N. Stemmons Freeway
Dallas, Texas 75207
Telephone: 800-644-7976

Prior to installation the Contractor shall submit to the Engineer:

(A) FHWA acceptance letter for each impact attenuator unit certifying it meets the requirements of NCHRP Report 350, Test Level 3, in accordance with Article 106-2 of the *Standard Specifications*.

(B) Certified working drawings and assembling instructions from the manufacturer for each impact attenuator unit in accordance with Article 105-2 of the *Standard Specifications*.

No modifications shall be made to the impact attenuator unit without the express written permission from the manufacturer. Perform installation in accordance with the details in the plans, and details and assembling instructions furnished by the manufacturer.

Construction Methods

If the median width is 40 feet or less, the Contractor shall supply one of the NON-GATING Impact Attenuator Units listed in the Materials Section herein.

If the median width is greater than 40 feet, the Contractor may use any of the GATING or NON-GATING Impact Attenuator Units listed in the Materials Section herein.

Measurement and Payment

Impact Attenuator Unit, Type 350 will be measured and paid for at the contract unit price per each. Such prices and payment will be full compensation for all work covered by this provision including but not limited to furnishing, installing and all incidentals necessary to complete the work.

Payment will be made under:

Pay Item
Impact Attenuator Unit, Type 350

Pay Unit
Each

REVISED 5-31-2011

GENERAL NOTES: 2006 SPECIFICATIONS
EFFECTIVE: 07-18-06
REVISED: 07-30-08

**GRADE LINE:
GRADING AND SURFACING:**
THE GRADE LINES SHOWN DENOTE THE FINISHED ELEVATION OF THE PROPOSED SURFACING AT GRADE POINTS SHOWN ON THE TYPICAL SECTIONS. GRADE LINES MAY BE ADJUSTED AT THEIR BEGINNING AND ENDING AND AT STRUCTURES AS DIRECTED BY THE ENGINEER IN ORDER TO SECURE A PROPER TIE-IN.

GRADING:
THE GRADE LINES SHOWN DENOTE THE FINISHED ELEVATION OF THE PROPOSED OR FUTURE SURFACING AT GRADE POINTS SHOWN ON THE TYPICAL SECTIONS. GRADE LINES MAY BE ADJUSTED AT THEIR BEGINNING AND ENDING AND AT STRUCTURES AS DIRECTED BY THE ENGINEER IN ORDER TO SECURE A PROPER TIE-IN.

CLEARING:
CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD II.

SUPERELEVATION:
ALL CURVES ON THIS PROJECT SHALL BE SUPERELEVATED IN ACCORDANCE WITH STD. NO. 225.04 USING THE RATE OF SUPERELEVATION AND RUNOFF SHOWN ON THE PLANS. SUPERELEVATION IS TO BE REVOLVED ABOUT THE GRADE POINTS SHOWN ON THE TYPICAL SECTIONS.

SHOULDER CONSTRUCTION:
ASPHALT, EARTH, AND CONCRETE SHOULDER CONSTRUCTION ON THE HIGH SIDE OF SUPERELEVATED CURVES SHALL BE IN ACCORDANCE WITH STD. NO. 560.01.

SIDE ROADS:
THE CONTRACTOR WILL BE REQUIRED TO DO ALL NECESSARY WORK TO PROVIDE SUITABLE CONNECTIONS WITH ALL ROADS, STREETS, AND DRIVES ENTERING THIS PROJECT. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PARTICULAR ITEMS INVOLVED.

GUARDRAIL:
THE GUARDRAIL LOCATIONS SHOWN ON THE PLANS MAY BE ADJUSTED DURING CONSTRUCTION AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHOULD CONSULT WITH THE ENGINEER PRIOR TO ORDERING GUARDRAIL MATERIAL.

TEMPORARY SHORING:
SHORING REQUIRED FOR THE MAINTENANCE OF TRAFFIC NOT SHOWN ON THE PLANS WILL BE PAID FOR AT THE CONTRACT PRICE FOR "TEMPORARY SHORING".

SUBSURFACE PLANS:
NO SUBSURFACE PLANS ARE AVAILABLE ON THIS PROJECT. THE CONTRACTOR SHOULD MAKE HIS OWN INVESTIGATION AS TO THE SUBSURFACE CONDITIONS.

END BENTS:
THE ENGINEER SHALL CHECK THE STRUCTURE END BENT PLANS, DETAILS, AND CROSS-SECTION PRIOR TO SETTING OF THE SLOPE STAKES FOR THE EMBANKMENT OR EXCAVATION APPROACHING A BRIDGE.

UTILITIES:
ANY RELOCATION OF EXISTING UTILITIES WILL BE ACCOMPLISHED BY OTHERS.

APPROXIMATE GUARDRAIL LENGTH				
STATION	LOCATION	STATION	LOCATION	LENGTH
-L- 14+42.00 +/-	LT	-L- 15+80.00 +/-	LT	137.5'
-L- 12+68.00 +/-	RT	-L- 15+68.00 +/-	RT	300'
-L- 16+60.00 +/-	LT	-L- 16+85.00 +/-	LT	25'
-L- 17+09.00 +/-	LT	-L- 19+59.00 +/-	LT	250'
-L- 16+48.00 +/-	RT	-L- 16+73.00 +/-	RT	25'
SUBTOTAL				737.5
ANCHOR DEDUCTIONS				281.25'
TOTAL				456.25'
SAY				462.5

ANCHOR DEDUCTIONS		
GRAU-350	4 X 50'	200'
TYPE B-77	3 X 18.75'	56.25'
IA-350	1 X 25'	25'
TOTAL ANCHOR DEDUCTIONS		281.25'

APPROXIMATE GUARDRAIL LENGTH				
STATION	LOCATION	STATION	LOCATION	LENGTH
-L- 16+60.00 +/-	LT	SHOP CURVE	LT	20.40'
SUBTOTAL				20.40'
SHOP CURVE ANCHOR DEDUCTIONS				6.25'
TOTAL				14.15'
SAY				25'

SHOP CURVE ANCHOR DEDUCTIONS		
AT-1	1 X 6.25'	6.25'
TOTAL ANCHOR DEDUCTIONS		6.25'

EFF. 07-18-06
REV. 01-02-07

2006 ROADWAY ENGLISH STANDARD DRAWINGS

The following Roadway Standards as appear in "Roadway Standard Drawings" Highway Design Branch - N. C. Department of Transportation - Raleigh, N. C., Dated July 18, 2006 are applicable to this project and by reference hereby are considered a part of these plans:

STD.NO.	TITLE
DIVISION 2 - EARTHWORK	
200.02	Method of Clearing - Method II
225.02	Guide for Grading Subgrade - Secondary and Local
225.04	Method of Obtaining Superelevation - Two Lane Pavement
DIVISION 3 - PIPE CULVERTS	
310.10	Driveway Pipe Construction
DIVISION 4 - MAJOR STRUCTURES	
422.10	Reinforced Bridge Approach Fills
DIVISION 5 - SUBGRADE, BASES AND SHOULDERS	
560.01	Method of Shoulder Construction - High Side of Superelevated Curve - Method I
DIVISION 8 - INCIDENTALS	
840.29	Frames and Narrow Slot Flat Grates
840.35	Traffic Bearing Grated Drop Inlet - for Cast Iron Double Frame and Grates
840.46	Traffic Bearing Precast Drainage Structure
840.66	Drainage Structure Steps
848.04	Street Turnout
862.01	Guardrail Placement
862.02	Guardrail Installation
862.03	Structure Anchor Units
862.04	Anchoring End of Guardrail - B-77 and B-83 Anchor Units
876.02	Guide for Rip Rap at Pipe Outlets

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TOTAL BILL OF MATERIAL

	REMOVAL OF EXISTING STRUCTURE	UNCLASSIFIED STRUCTURE EXCAVATION	CLASS A CONCRETE	BRIDGE APPROACH SLABS	REINFORCING STEEL	HP 12 X 53 STEEL PILES		HP 12 X 53 GALVANIZED STEEL PILES		PRECAST CONCRETE BARRIER RAIL	RIP RAP CLASS II (2'-0" THICK)	FILTER FABRIC FOR DRAINAGE	ELAST. BEARINGS	3'-0" X 1'-9" PRESTRESSED CONCRETE CORED SLABS	
	LUMP SUM	LUMP SUM	CU. YDS	LUMP SUM	LBS.	NO.	LIN. FT.	NO.	LIN. FT.	LIN. FT.	TONS	SQ. YDS.	LUMP SUM	NO.	LIN. FT.
SUPERSTRUCTURE	LUMP SUM			LUMP SUM						160.0			LUMP SUM	30	1200
END BENT 1			17.3		2,515	7	420				140	125			
BENT 1			12.8		2,512	9	270	9	225						
END BENT 2			17.6		2,519	10	550				85	75			
TOTAL	LUMP SUM	LUMP SUM	47.7	LUMP SUM	7,546	26	1240	9	225	160.0	225	200	LUMP SUM	30	1200

WBS NO. 33575.3.1
PITT COUNTY
 STATION: 16+14.55 -L-
 REPLACES BRIDGE NO. 9



PLANS PREPARED BY:
SIMPSON ENGINEERS & ASSOCIATES
 5520 Dilford Drive
 Suite 120
 Cary, NC 27518
 (919) 852-0468
 (919) 852-0598 (Fax)
 www.simpsonengr.com
 LICENSURE NO. C-2521

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

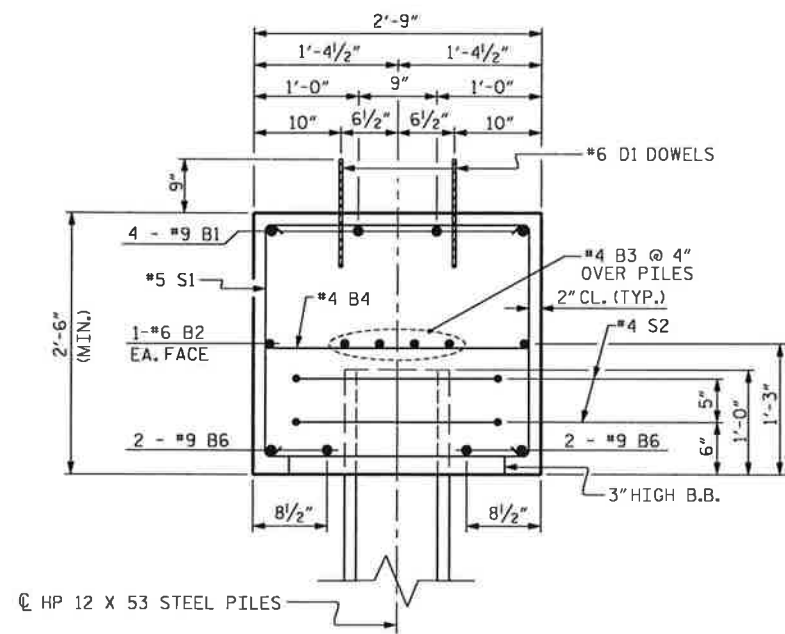
BILL OF MATERIAL

42' CLEAR ROADWAY-105° SKEW

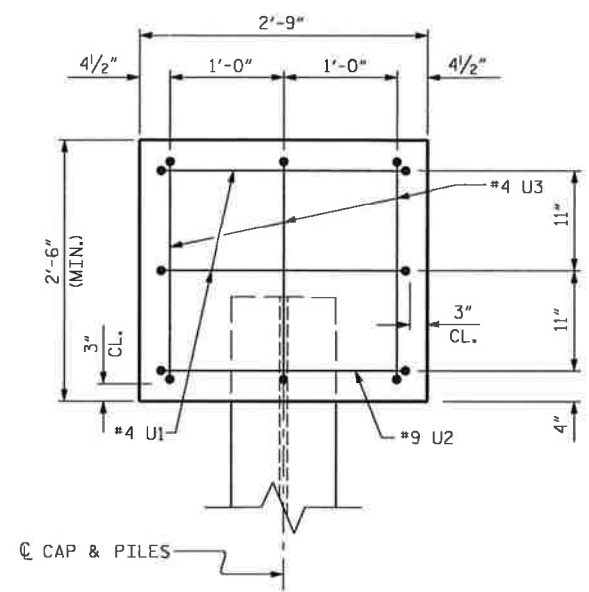
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2			4			32

REVISED 5-31-2011

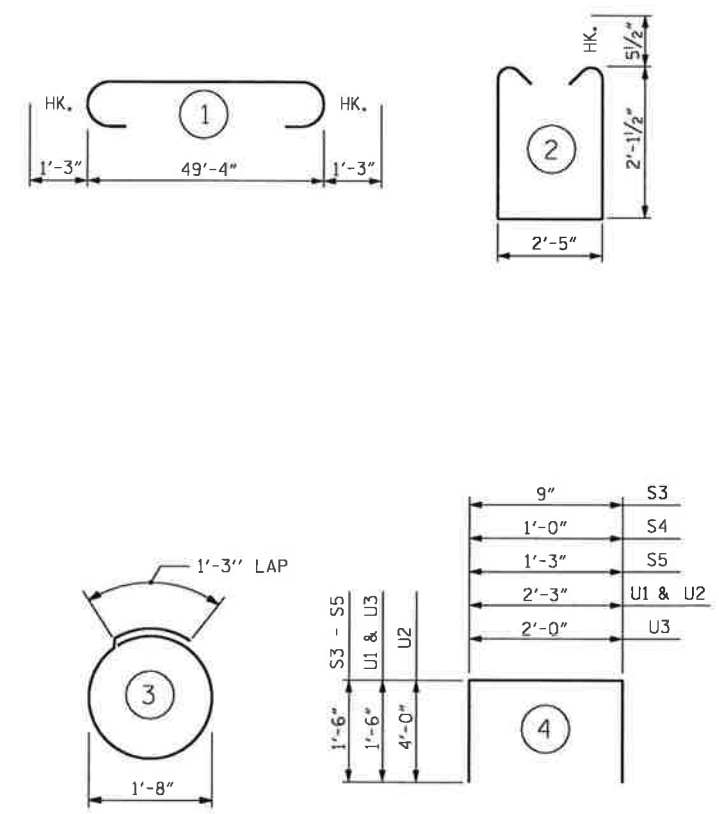
DRAWN BY : D. G. VESTER DATE : 6-08
 CHECKED BY : M. A. AVERETTE DATE : 6-08



SECTION A-A



END VIEW
(TYPICAL BOTH ENDS)

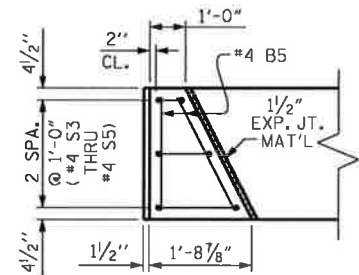


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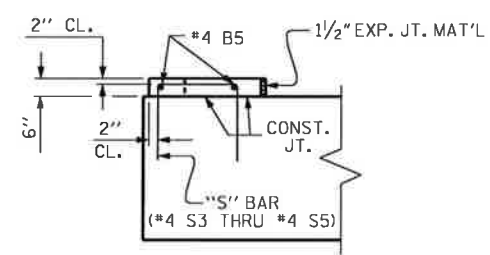
BILL OF MATERIAL

BENT #1					
BAR NO.	NO.	SIZE	TYPE	LENGTH	WEIGHT
B1	4	9	1	51'-10"	705
B2	2	6	STR	49'-4"	148
B3	8	4	STR	25'-11"	138
B4	13	4	STR	2'-5"	21
B5	4	4	STR	2'-4"	6
B6	4	9	STR	49'-4"	671
D1	60	6	STR	1'-6"	135
S1	62	5	2	7'-7"	490
S2	18	4	3	6'-6"	78
S3	2	4	4	3'-9"	5
S4	2	4	4	4'-0"	5
S5	2	4	4	4'-3"	6
U1	4	4	4	5'-3"	14
U2	2	9	4	10'-3"	70
U3	6	4	4	5'-0"	20

TOTAL REINFORCING STEEL	2512 Lbs.
CLASS "A" CONCRETE	12.8 Cu. Yds.
HP 12 X 53 GALV. STEEL PILES - LIN. FEET	270
HP 12 X 53 STEEL PILES - LIN. FEET	225
9 PILES REQUIRED - LIN. FEET	495

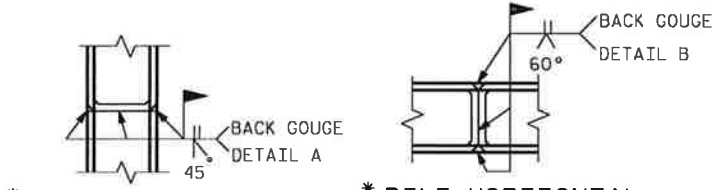


PLAN

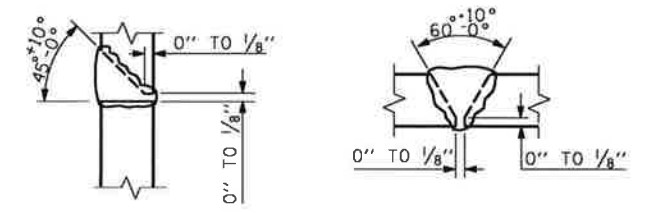


ELEVATION

LATERAL GUIDE DETAILS



*** PILE VERTICAL * PILE HORIZONTAL OR VERTICAL**



DETAIL A DETAIL B

PILE SPlice DETAILS

* POSITION OF PILE DURING WELDING.

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DRAWN BY : D. G. VESTER DATE : 6-08
CHECKED BY : M. A. AVERETTE DATE : 6-08

REVISED 5-31-2011

PLANS PREPARED BY:
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www.simpsonengr.com
LICENSURE NO. C-2521

WBS NO. 33575.3.1
PITT COUNTY
STATION: 16+14.55 -L-
REPLACES BRIDGE NO. 9 SHEET 2 OF 2

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH					
SUBSTRUCTURE					
BENT #1					
42' CLEAR ROADWAY-105° SKEW					
REVISIONS					
NO.	BY:	DATE:	NO.	BY:	DATE:
1			3		
2			4		
					SHEET NO. 29
					TOTAL SHEETS 32