



STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION

ROY COOPER  
GOVERNOR

J. ERIC BOYETTE  
SECRETARY

August 4, 2023

**Addendum No. 1**

RE: Contract # C204815

WBS # 45738.3.1

FEDERAL AID NO. NHP-0029(063)

**Davidson County (B-5783)**

BRIDGES #164 AND #168 OVER THE NORFOLK SOUTHERN RAILWAY ON  
US-29/70 I-85 BUS.

**August 15, 2023 Letting**

To Whom It May Concern:

Reference is made to the proposal and plans furnished to you on this project.

The following revisions have been made to the Structures Plans.

Sheet No.	Revision
S1-04, S2-04	Total Bill of Material tables updated to reflect new Class A Concrete quantities.

Please void the above listed Sheets in your Plans and staple the revised Sheets thereto.

The following revisions have been made to the proposal.

Page No.	Revision
Proposal Cover	Note added that reads "Includes Addendum No. 1 Dated 08-04-2023".

Please void the above listed Page in your proposal and staple the revised Page thereto.

On the item sheets the following pay item revision has been made:

<u>Item</u>	<u>Description</u>	<u>Old Quantity</u>	<u>New Quantity</u>
0137-818200000-E 420	CLASS A CONCRETE (BRIDGE)	522.8 CY	411.6 CY

Mailing Address:  
NC DEPARTMENT OF TRANSPORTATION  
CONTRACT STANDARDS AND DEVELOPMENT  
1591 MAIL SERVICE CENTER  
RALEIGH, NC 27699-1591

Telephone: (919) 707-6900  
Fax: (919) 250-4127  
Customer Service: 1-877-368-4968

Location:  
1020 BIRCH RIDGE DR.  
RALEIGH, NC 27610


Website: [www.ncdot.gov](http://www.ncdot.gov)

The Contractor's bid must include this pay item revision.

The electronic bidding file has been updated to reflect this revision. Please download the Addendum File and follow the instructions for applying the addendum. Bid Express will not accept your bid unless the addendum has been applied.

The contract will be prepared accordingly.

Sincerely,

DocuSigned by:  
  
F81B6038A47A442...

Ronald E. Davenport, Jr., PE  
State Contract Officer

RED/cms  
Attachments

cc: Mr. Boyd Tharrington, PE  
Mr. Pat Ivey, PE  
Mr. Ken Kennedy, PE  
Mr. Mike Gwyn  
Project File (2)

Mr. Forrest Dungan, PE  
Ms. Jaci Kincaid  
Mr. Jon Weathersbee, PE

STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
RALEIGH, N.C.

PROPOSAL

**INCLUDES ADDENDUM No. 1 DATED 08-04-2023**

DATE AND TIME OF BID OPENING: **Aug 15, 2023 AT 02:00 PM**

CONTRACT ID        C204815  
WBS                    45738.3.1

FEDERAL-AID NO.    NHP-0029(063)  
COUNTY             DAVIDSON  
T.I.P NO.             B-5783  
MILES                 0.550  
ROUTE NO.            US-29  
LOCATION               BRIDGES #164 AND 168 OVER THE NORFOLK SOUTHERN RAILWAY ON  
                              US-29/70 I-85 BUS.

TYPE OF WORK       GRADING, DRAINAGE, PAVING, AND STRUCTURE.

**NOTICE:**

ALL BIDDERS SHALL COMPLY WITH ALL APPLICABLE LAWS REGULATING THE PRACTICE OF GENERAL CONTRACTING AS CONTAINED IN CHAPTER 87 OF THE GENERAL STATUTES OF NORTH CAROLINA WHICH REQUIRES THE BIDDER TO BE LICENSED BY THE N.C. LICENSING BOARD FOR CONTRACTORS WHEN BIDDING ON ANY NON-FEDERAL AID PROJECT WHERE THE BID IS \$30,000 OR MORE, EXCEPT FOR CERTAIN SPECIALTY WORK AS DETERMINED BY THE LICENSING BOARD. BIDDERS SHALL ALSO COMPLY WITH ALL OTHER APPLICABLE LAWS REGULATING THE PRACTICES OF ELECTRICAL, PLUMBING, HEATING AND AIR CONDITIONING AND REFRIGERATION CONTRACTING AS CONTAINED IN CHAPTER 87 OF THE GENERAL STATUTES OF NORTH CAROLINA. NOTWITHSTANDING THESE LIMITATIONS ON BIDDING, THE BIDDER WHO IS AWARDED ANY FEDERAL - AID FUNDED PROJECT SHALL COMPLY WITH CHAPTER 87 OF THE GENERAL STATUTES OF NORTH CAROLINA FOR LICENSING REQUIREMENTS WITHIN 60 CALENDAR DAYS OF BID OPENING.

**BIDS WILL BE RECEIVED AS SHOWN BELOW:**

**THIS IS A ROADWAY & STRUCTURE PROPOSAL**

**5% BID BOND OR BID DEPOSIT REQUIRED**

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County: DAVIDSON

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	0000820000-N	SP	GENERIC MISCELLANEOUS ITEM RAILROAD CONTRACTOR PROTECTIVE SERVICES	390 DAY		
0004	0028000000-N	SP	TYPE I STANDARD APPROACH FILL STATION ***** (21+13.32 -L- NBL)	Lump Sum	L.S.	
0005	0028000000-N	SP	TYPE I STANDARD APPROACH FILL STATION ***** (21+53.61 -L- SBL)	Lump Sum	L.S.	
0006	0043000000-N	226	GRADING	Lump Sum	L.S.	
0007	0050000000-E	226	SUPPLEMENTARY CLEARING & GRUBBING	1 ACR		
0008	0057000000-E	226	UNDERCUT EXCAVATION	600 CY		
0009	0134000000-E	240	DRAINAGE DITCH EXCAVATION	110 CY		
0010	0195000000-E	265	SELECT GRANULAR MATERIAL	600 CY		
0011	0196000000-E	270	GEOTEXTILE FOR SOIL STABILIZATION	1,000 SY		
0012	0199000000-E	SP	TEMPORARY SHORING	1,840 SF		
0013	0318000000-E	300	FOUNDATION CONDITIONING MATERIAL, MINOR STRUCTURES	230 TON		
0014	0320000000-E	300	FOUNDATION CONDITIONING GEOTEXTILE	710 SY		
0015	0343000000-E	310	15" SIDE DRAIN PIPE	104 LF		
0016	0348000000-E	310	*** SIDE DRAIN PIPE ELBOWS (15")	6 EA		
0017	0448200000-E	310	15" RC PIPE CULVERTS, CLASS IV	696 LF		

County: DAVIDSON

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0018	0448300000-E	310	18" RC PIPE CULVERTS, CLASS IV	616 LF		
0019	0448400000-E	310	24" RC PIPE CULVERTS, CLASS IV	140 LF		
0020	0448500000-E	310	30" RC PIPE CULVERTS, CLASS IV	496 LF		
0021	0448700000-E	310	42" RC PIPE CULVERTS, CLASS IV	48 LF		
0022	0995000000-E	340	PIPE REMOVAL	180 LF		
0023	0996000000-N	350	PIPE CLEAN OUT	1 EA		
0024	1099500000-E	505	SHALLOW UNDERCUT	200 CY		
0025	1099700000-E	505	CLASS IV SUBGRADE STABILIZATION	800 TON		
0026	1121000000-E	520	AGGREGATE BASE COURSE	844 TON		
0027	1220000000-E	545	INCIDENTAL STONE BASE	150 TON		
0028	1297000000-E	607	MILLING ASPHALT PAVEMENT, **** DEPTH (1-1/2")	6,820 SY		
0029	1491000000-E	610	ASPHALT CONC BASE COURSE, TYPE B25.0C	4,190 TON		
0030	1503000000-E	610	ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0C	3,160 TON		
0031	1523000000-E	610	ASPHALT CONC SURFACE COURSE, TYPE S9.5C	3,300 TON		
0032	1575000000-E	620	ASPHALT BINDER FOR PLANT MIX	535 TON		
0033	2022000000-E	815	SUBDRAIN EXCAVATION	90 CY		
0034	2026000000-E	815	GEOTEXTILE FOR SUBSURFACE DRAINS	400 SY		

County: DAVIDSON

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0035	2036000000-E	815	SUBDRAIN COARSE AGGREGATE	67 CY		
0036	2044000000-E	815	6" PERFORATED SUBDRAIN PIPE	400 LF		
0037	2070000000-N	815	SUBDRAIN PIPE OUTLET	2 EA		
0038	2077000000-E	815	6" OUTLET PIPE	12 LF		
0039	2190000000-N	828	TEMPORARY STEEL PLATE COVERS FOR MASONRY DRAINAGE STRUCTURE	4 EA		
0040	2209000000-E	838	ENDWALLS	3 CY		
0041	2275000000-E	SP	FLOWABLE FILL	55 CY		
0042	2286000000-N	840	MASONRY DRAINAGE STRUCTURES	32 EA		
0043	2308000000-E	840	MASONRY DRAINAGE STRUCTURES	62 LF		
0044	2364200000-N	840	FRAME WITH TWO GRATES, STD 840.20	15 EA		
0045	2365000000-N	840	FRAME WITH TWO GRATES, STD 840.22	6 EA		
0046	2366000000-N	840	FRAME WITH TWO GRATES, STD 840.24	7 EA		
0047	2367000000-N	840	FRAME WITH TWO GRATES, STD 840.29	1 EA		
0048	2396000000-N	840	FRAME WITH COVER, STD 840.54	2 EA		
0049	2556000000-E	846	SHOULDER BERM GUTTER	1,300 LF		
0050	3030000000-E	862	STEEL BEAM GUARDRAIL	3,812.5 LF		
0051	3060000000-E	862	STEEL BEAM GUARDRAIL, DOUBLE FACED	1,225 LF		

County: DAVIDSON

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0052	3150000000-N	862	ADDITIONAL GUARDRAIL POSTS	5 EA		
0053	3210000000-N	862	GUARDRAIL END UNITS, TYPE CAT-1	2 EA		
0054	3287000000-N	SP	GUARDRAIL END UNITS, TYPE TL-3	3 EA		
0055	3317000000-N	SP	GUARDRAIL ANCHOR UNITS, TYPE B-77	8 EA		
0056	3360000000-E	863	REMOVE EXISTING GUARDRAIL	4,800 LF		
0057	3375000000-E	SP	REMOVE & STOCKPILE EXISTING GUARDRAIL	3,210 LF		
0058	3387000000-N	SP	TEMPORARY GUARDRAIL ANCHOR UNITS, TYPE ***** (B-77)	2 EA		
0059	3389150000-N	SP	TEMPORARY GUARDRAIL END UNITS, TYPE ***** (TL-3)	2 EA		
0060	3436000000-N	862	GENERIC GUARDRAIL ITEM TEMPORARY GUARDRAIL END UNITS, TYPE AT-1	4 EA		
0061	3566000000-E	867	WOVEN WIRE FENCE RESET	255 LF		
0062	3628000000-E	876	RIP RAP, CLASS I	235 TON		
0063	3649000000-E	876	RIP RAP, CLASS B	488 TON		
0064	3656000000-E	876	GEOTEXTILE FOR DRAINAGE	1,935 SY		
0065	4048000000-E	902	REINFORCED CONCRETE SIGN FOUNDATIONS	4 CY		
0066	4054000000-E	902	PLAIN CONCRETE SIGN FOUNDATIONS	1 CY		
0067	4060000000-E	903	SUPPORTS, BREAKAWAY STEEL BEAM	2,407 LB		
0068	4066000000-E	903	SUPPORTS, SIMPLE STEEL BEAM	2,127 LB		

County: DAVIDSON

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0069	4072000000-E	903	SUPPORTS, 3-LB STEEL U-CHANNEL	226 LF		
0070	4096000000-N	904	SIGN ERECTION, TYPE D	2 EA		
0071	4102000000-N	904	SIGN ERECTION, TYPE E	15 EA		
0072	4108000000-N	904	SIGN ERECTION, TYPE F	1 EA		
0073	4110000000-N	904	SIGN ERECTION, TYPE *** (GROUND MOUNTED) (A)	9 EA		
0074	4110000000-N	904	SIGN ERECTION, TYPE *** (GROUND MOUNTED) (B)	1 EA		
0075	4152000000-N	907	DISPOSAL OF SIGN SYSTEM, STEEL BEAM	4 EA		
0076	4155000000-N	907	DISPOSAL OF SIGN SYSTEM, U-CHANNEL	19 EA		
0077	4236000000-N	907	DISPOSAL OF SIGN, A & B (GROUND MOUNTED)	4 EA		
0078	4400000000-E	1110	WORK ZONE SIGNS (STATIONARY)	1,107 SF		
0079	4410000000-E	1110	WORK ZONE SIGNS (BARRICADE MOUNTED)	130 SF		
0080	4415000000-N	1115	FLASHING ARROW BOARD	4 EA		
0081	4420000000-N	1120	PORTABLE CHANGEABLE MESSAGE SIGN	4 EA		
0082	4430000000-N	1130	DRUMS	779 EA		
0083	4445000000-E	1145	BARRICADES (TYPE III)	64 LF		
0084	4480000000-N	1165	TMA	4 EA		
0085	4490000000-E	1170	PORTABLE CONCRETE BARRIER (ANCHORED)	5,480 LF		



County: DAVIDSON

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0086	4650000000-N	1251	TEMPORARY RAISED PAVEMENT MARKERS	226 EA		
0087	4688000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (6", 90 MILS)	12,836 LF		
0088	4700000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (12", 90 MILS)	779 LF		
0089	4709000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (24", 90 MILS)	43 LF		
0090	4725000000-E	1205	THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS)	5 EA		
0091	4775000000-E	1205	COLD APPLIED PLASTIC PAVEMENT MARKING LINES, TYPE ** (6") (II)	1,172 LF		
0092	4810000000-E	1205	PAINT PAVEMENT MARKING LINES (4")	22,838 LF		
0093	4900000000-N	1251	PERMANENT RAISED PAVEMENT MARKERS	6 EA		
0094	4905100000-N	SP	NON-CAST IRON SNOWPLOWABLE PAVEMENT MARKER	67 EA		
0095	6000000000-E	1605	TEMPORARY SILT FENCE	3,765 LF		
0096	6006000000-E	1610	STONE FOR EROSION CONTROL, CLASS A	690 TON		
0097	6009000000-E	1610	STONE FOR EROSION CONTROL, CLASS B	7,050 TON		
0098	6012000000-E	1610	SEDIMENT CONTROL STONE	2,615 TON		
0099	6015000000-E	1615	TEMPORARY MULCHING	21 ACR		
0100	6018000000-E	1620	SEED FOR TEMPORARY SEEDING	1,400 LB		
0101	6021000000-E	1620	FERTILIZER FOR TEMPORARY SEEDING	7 TON		
0102	6024000000-E	1622	TEMPORARY SLOPE DRAINS	200 LF		

County: DAVIDSON

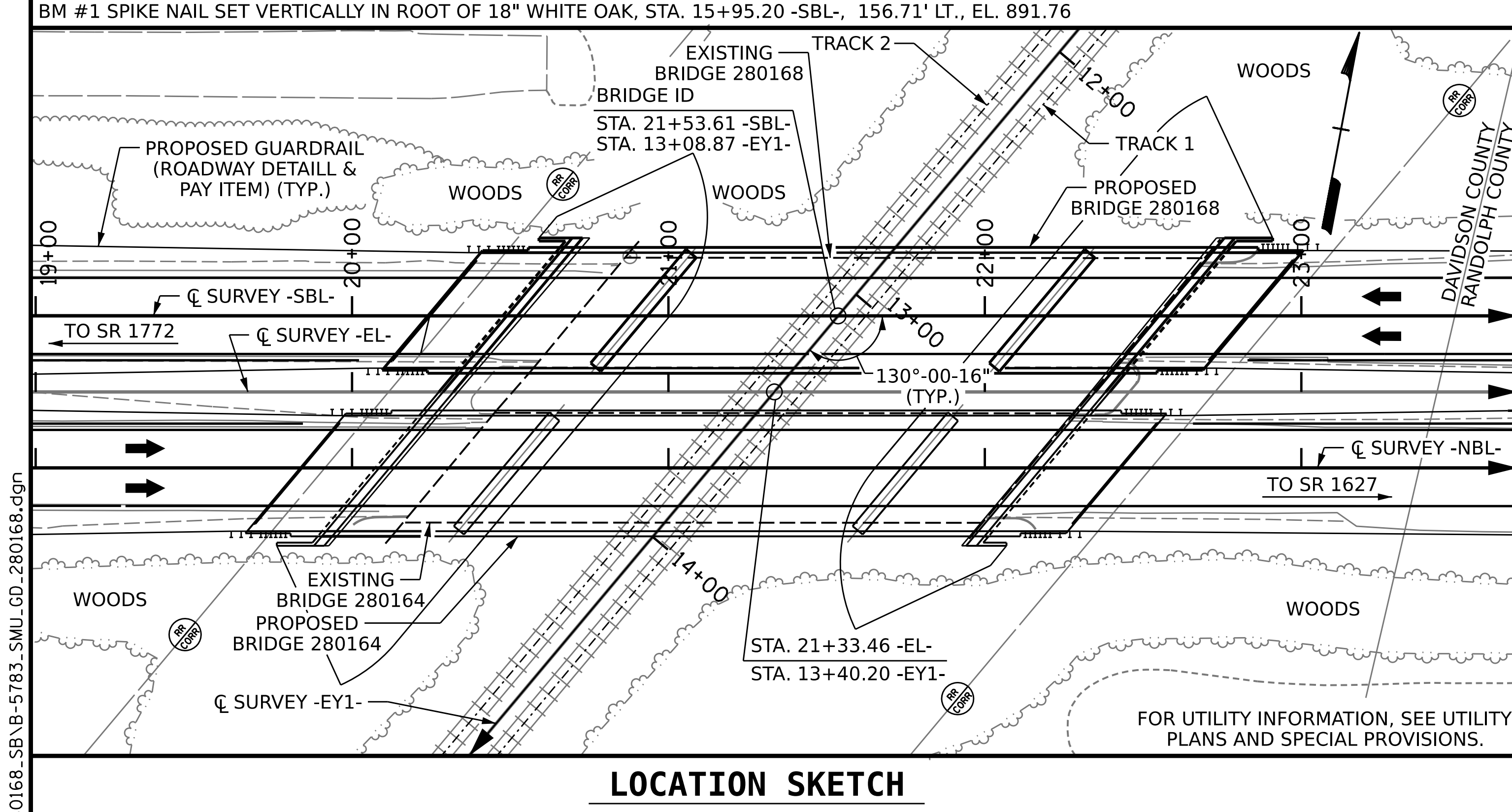
Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0103	6029000000-E	SP	SAFETY FENCE	840 LF		
0104	6030000000-E	1630	SILT EXCAVATION	7,990 CY		
0105	6036000000-E	1631	MATTING FOR EROSION CONTROL	15,000 SY		
0106	6037000000-E	SP	COIR FIBER MAT	100 SY		
0107	6038000000-E	SP	PERMANENT SOIL REINFORCEMENT MAT	5,500 SY		
0108	6042000000-E	1632	1/4" HARDWARE CLOTH	880 LF		
0109	6070000000-N	1639	SPECIAL STILLING BASINS	2 EA		
0110	6071010000-E	SP	WATTLE	150 LF		
0111	6071020000-E	SP	POLYACRYLAMIDE (PAM)	1,110 LB		
0112	6071030000-E	1640	COIR FIBER BAFFLE	55 LF		
0113	6084000000-E	1660	SEEDING & MULCHING	21 ACR		
0114	6087000000-E	1660	MOWING	12 ACR		
0115	6090000000-E	1661	SEED FOR REPAIR SEEDING	250 LB		
0116	6093000000-E	1661	FERTILIZER FOR REPAIR SEEDING	74 TON		
0117	6096000000-E	1662	SEED FOR SUPPLEMENTAL SEEDING	475 LB		
0118	6108000000-E	1665	FERTILIZER TOPDRESSING	14 TON		
0119	6111000000-E	SP	IMPERVIOUS DIKE	20 LF		

County: DAVIDSON

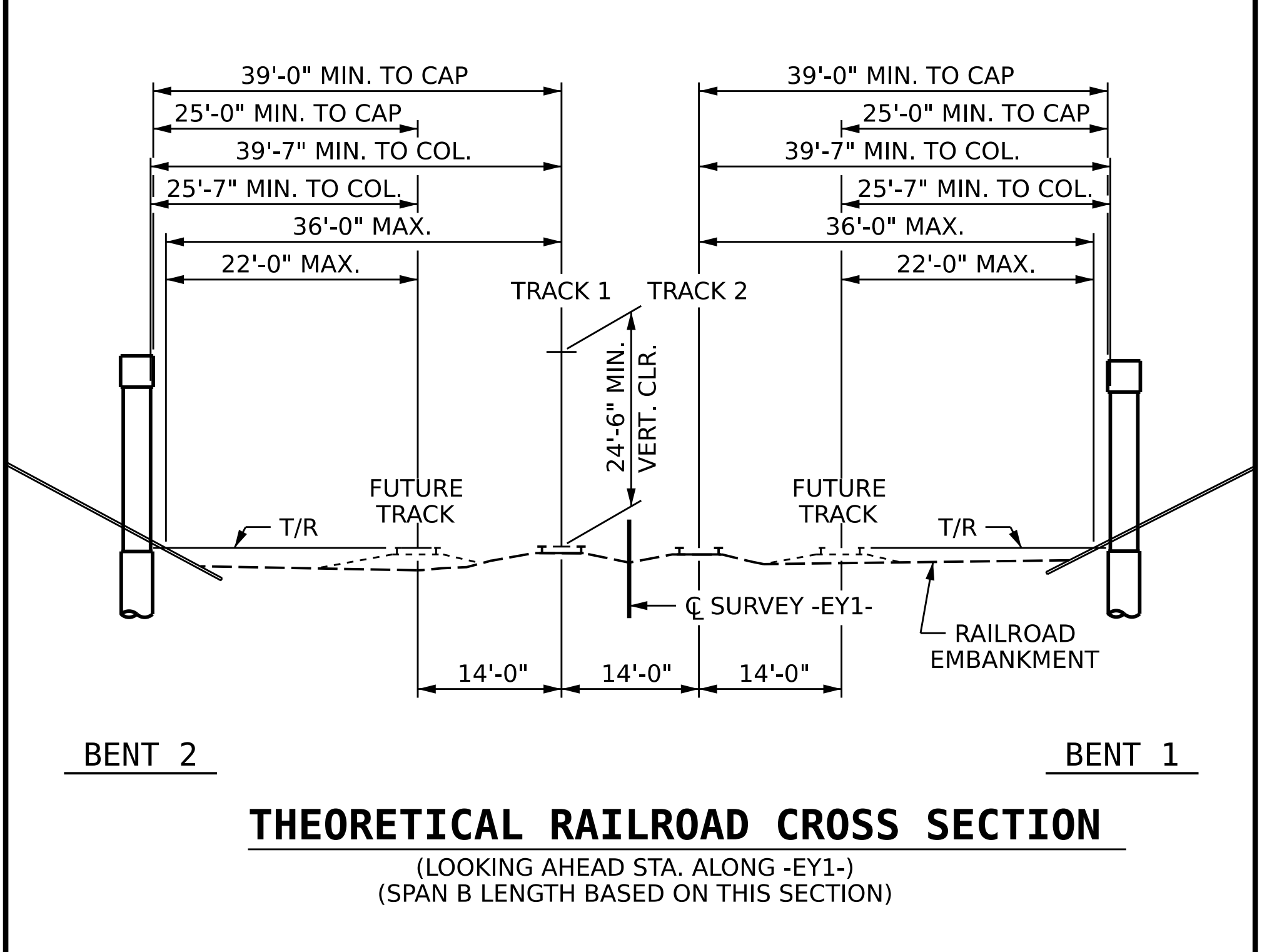
Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0120	6114500000-N	1667	SPECIALIZED HAND MOWING	10 MHR		
0121	6114800000-N	SP	MANUAL LITTER REMOVAL	7 MHR		
0122	6114900000-E	SP	LITTER DISPOSAL	3 TON		
0123	6117000000-N	SP	RESPONSE FOR EROSION CONTROL	25 EA		
0124	6117500000-N	SP	CONCRETE WASHOUT STRUCTURE	4 EA		
0125	6132000000-N	SP	GENERIC EROSION CONTROL ITEM FABRIC INSERT INLET PROTECTION DEVICE	15 EA		
0126	6132000000-N	SP	GENERIC EROSION CONTROL ITEM FABRIC INSERT INLET PROTECTION DEVICE CLEANOUT	45 EA		
<b>STRUCTURE ITEMS</b>						
0127	8035000000-N	402	REMOVAL OF EXISTING STRUCTURE AT STATION ***** (21+13.32 -L- NBL)	Lump Sum	L.S.	
0128	8035000000-N	402	REMOVAL OF EXISTING STRUCTURE AT STATION ***** (21+53.61 -L- SBL)	Lump Sum	L.S.	
0129	8065000000-N	SP	ASBESTOS ASSESSMENT	Lump Sum	L.S.	
0130	8105540000-E	411	3'-6" DIA DRILLED PIERS IN SOIL	182.1 LF		
0131	8105640000-E	411	3'-6" DIA DRILLED PIERS NOT IN SOIL	120 LF		
0132	8115000000-N	411	CSL TESTING	2 EA		
0133	8121000000-N	412	UNCLASSIFIED STRUCTURE EXCAVATION AT STATION ***** (21+13.32 -L- NBL)	Lump Sum	L.S.	
0134	8121000000-N	412	UNCLASSIFIED STRUCTURE EXCAVATION AT STATION ***** (21+53.61 -L- SBL)	Lump Sum	L.S.	

County: DAVIDSON

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0135	8147000000-E	420	REINFORCED CONCRETE DECK SLAB	16,718 SF		
0136	8161000000-E	420	GROOVING BRIDGE FLOORS	16,930 SF		
0137	8182000000-E	420	CLASS A CONCRETE (BRIDGE)	411.6 CY		
0138	8210000000-N	422	BRIDGE APPROACH SLABS, STATION ***** (21+13.32 -L- NBL)	Lump Sum	L.S.	
0139	8210000000-N	422	BRIDGE APPROACH SLABS, STATION ***** (21+53.61 -L- SBL)	Lump Sum	L.S.	
0140	8217000000-E	425	REINFORCING STEEL (BRIDGE)	85,760 LB		
0141	8238000000-E	425	SPIRAL COLUMN REINFORCING STEEL (BRIDGE)	11,609 LB		
0142	8280000000-E	440	APPROX ..... LBS STRUCTURAL STEEL	648,300 LS		
0143	8328200000-E	450	PILE DRIVING EQUIPMENT SETUP FOR *** STEEL PILES (HP 12 X 53)	28 EA		
0144	8364000000-E	450	HP 12 X 53 STEEL PILES	965 LF		
0145	8503000000-E	460	CONCRETE BARRIER RAIL	926.16 LF		
0146	8531000000-E	462	4" SLOPE PROTECTION	1,770 SY		
0147	8657000000-N	430	ELASTOMERIC BEARINGS	Lump Sum	L.S.	
0148	8706000000-N	SP	EXPANSION JOINT SEALS	Lump Sum	L.S.	



**LOCATION SKETCH**



**THEORETICAL RAILROAD CROSS SECTION**

(LOOKING AHEAD STA. ALONG -EY1-)  
(SPAN B LENGTH BASED ON THIS SECTION)

SAMPLE BAR REPLACEMENT	
SIZE	LENGTH
#3	6'-2"
#4	7'-4"
#5	8'-6"
#6	9'-8"
#7	10'-10"
#8	12'-0"
#9	13'-2"
#10	14'-6"
#11	15'-10"

NOTE: SAMPLE BAR REPLACEMENT LENGTHS BASED ON 30" (SAMPLE LENGTH) PLUS TWO SPLICE LENGTHS AND fy= 60ksi.

**TOTAL BILL OF MATERIAL**

	REMOVAL OF EXISTING STRUCTURE @ STA.21+53.61 -SBL-	ASBESTOS ASSESSMENT	3'-6" DIAMETER DRILLED PIER IN SOIL	3'-6" DIAMETER DRILLED PIER NOT IN SOIL	CSL TESTING	UNCLASSIFIED STRUCTURE EXCAVATION	REINFORCING CONCRETE DECK SLAB	GROOVING BRIDGE FLOORS	CLASS A CONCRETE	BRIDGE APPROACH SLAB	REINFORCING STEEL	SPIRAL COLUMN REINFORCING STEEL	APPROXIMATE 324,150 LB. STRUCTURAL STEEL	PILE DRIVING EQUIPMENT SETUP FOR HP 12 X 53 STEEL PILES	HP 12 X 53 STEEL PILES	CONCRETE BARRIER RAIL	4" SLOPE PROTECTION	ELASTOMERIC BEARINGS	EXPANSION JOINT SEALS	
	LS	LS	LF	LF	EA	LS	SF	SF	CY	LS	LB	LB	LS	EA	NO.	LF	LF	SY	LS	LS
SUPERSTRUCTURE							8,359	8,465		LS			LS			463.08		LS	LS	
END BENT 1									52.0	LS	6,355	2,586		7	7	245		440		
BENT 1			30.6	30.0					53.3		14,163	3,191								
BENT 2			60.1	30.0					52.7		16,032									
END BENT 2									48.6		6,200			7	7	230		445		
TOTAL	LS	LS	90.7	60.0	1	LS	8,359	8,465	206.6	LS	42,750	5,777	LS	14	14	475	463.08	885	LS	LS

**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 STURCTURES, SEE SPECIAL PROVISIONS.
- REMOVABLE FORMS MAY BE USED IN LIEU OF METAL STAY-IN-PLACE FORMS IN ACCORDANCE WITH ARTICLE 420-3 OF THE STANDARD SPECIFICATIONS.
- THE RAILROAD TRACK TOP OF RAIL ELEVATIONS ON THE PLANS ARE FROM THE BEST INFORMATION AVAILABLE. PRIOR TO BEGINNING BRIDGE CONSTRUCTION, VERIFY THE TOP OF RAIL ELEVATIONS AND REPORT ANY VARIATIONS TO THE ENGINEER. ANY PLAN REVISIONS NECESSARY TO ACHIEVE THE REQUIRED MINIMUM CLEARANCE WILL BE PROVIDED BY THE DEPARTMENT.
- NEEDLE BEAMS WILL NOT BE ALLOWED UNLESS OTHERWISE CALLED FOR ON THE PLANS OR APPROVED BY THE ENGINEER.
- ALL STRUCTRAL STEEL SHALL BE AASHTO M270 GRADE 50W AND PAINTED IN ACCORDANCE WITH SYSTEM 5 OR SYSTEM 6 OF SECTION 442-8 OF THE STANDARD SPECIFICATIONS UNLESS OTHERWISE NOTED ON THE PLANS.
- FOR ASBESTOS ASSESMENT FOR BRIDGE DEMOLITION AND RENOVATION ACTIVITIES, SEE SPECIAL PROVISIONS.
- FOR EROSION CONTROL MEASURES, SEE EROSION CONTROL PLANS.

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 21+13.32 -NBL-."

TEMPORARY SHORING WILL BE REQUIRED IN THE AREA INDICATED IN THE PLAN VIEW.

FOR LIMITS OF TEMPORARY SHORING FOR MAINTENANCE OF TRAFFIC, SEE TRAFFIC CONTROL PLANS. FOR PAY ITEMS FOR TEMPORARY SHORING FOR MAINTENANCE OF TRAFFIC, SEE ROADWAY PLANS.

THE EXISTING STRUCTURE, CONSISTING OF 3 SPAN CONCRETE DECK ON STEEL BEAMS AT 60'-0", 65'-0", AND 60'-0" WITH A CLEAR ROADWAY WIDTH OF 30'-0" ON CONCRETE END BENT CAPS WITH STEEL PILES AND CONCRETE POST AND BEAM INTERIOR BENTS, SHALL BE REMOVED.

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.

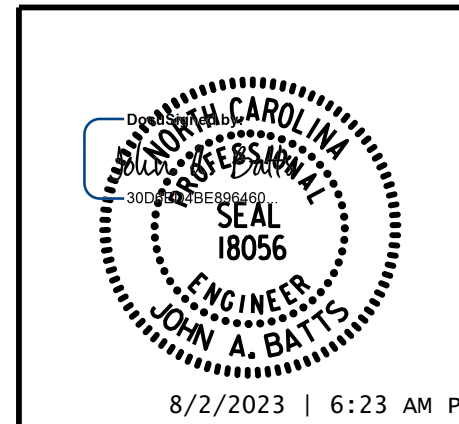
THE LOCATION OF THE CONSTRUCTION JOINT IN THE DRILLED PIERS IS BASED ON AN APPROXIMATE GROUND LINE ELEVATION. IF THE CONSTRUCTION JOINT IS ABOVE THE ACTUAL GROUND ELEVATION, THE CONTRACTOR SHALL PLACE THE CONSTRUCTION JOINT 1 FT. BELOW THE GROUND LINE.

THE MATERIAL SHOWN IN THE CROSS-HATCHED AREA SHALL BE EXCAVATED AS DIRECTED BY THE ENGINEER. THIS WORK WILL BE PAID FOR AT THE CONTRACT LUMP SUM PRICE FOR UNCLASSIFIED STRUCTURE EXCAVATION. SEE SECTION 412 OF THE STANDARD SPECIFICATIONS.

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PROJECT NO. B-5783  
DAVIDSON COUNTY  
STATION: 21+53.61 -SBL-

SHEET 4 OF 4



STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
RALEIGH  
**GENERAL DRAWING**  
FOR BRIDGE ON  
I-85BUS./US 29/US 70 (-SBL-)  
OVER NORFOLK SOUTHERN RAILWAY  
BETWEEN SR 1772 AND SR 1627

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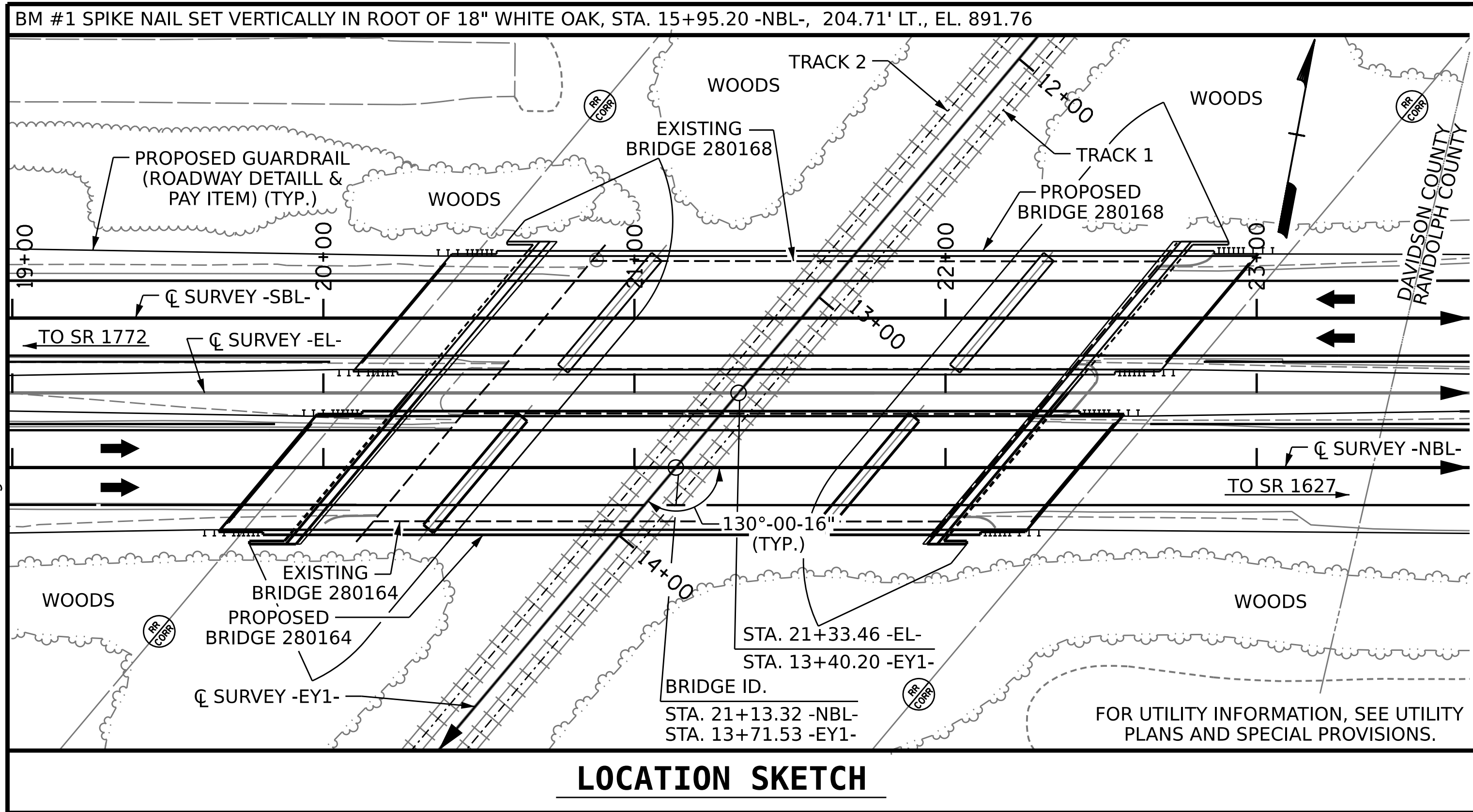
DRAWN BY :	S.D. COOPER	DATE :	12-22
CHECKED BY :	J.A. BATTS	DATE :	12-22
DESIGN ENGINEER OF RECORD:	J.A. BATTS	DATE :	12-22

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	
1			3			TOTAL SHEETS
2			4			40

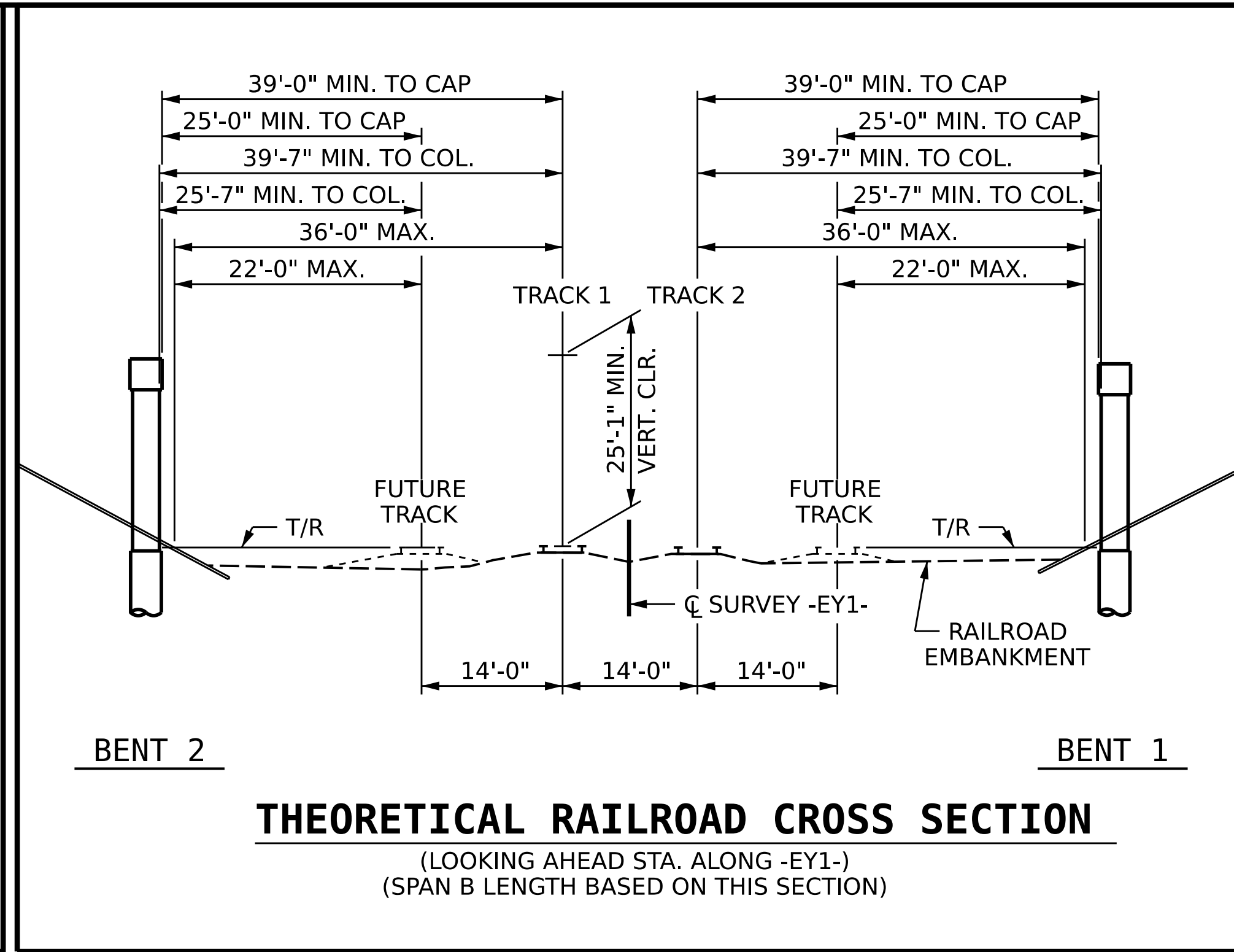
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**LOCATION SKETCH**



**THEORETICAL RAILROAD CROSS SECTION**

(LOOKING AHEAD STA. ALONG -EY1-)  
(SPAN B LENGTH BASED ON THIS SECTION)

SAMPLE BAR REPLACEMENT	
SIZE	LENGTH
#3	6'-2"
#4	7'-4"
#5	8'-6"
#6	9'-8"
#7	10'-10"
#8	12'-0"
#9	13'-2"
#10	14'-6"
#11	15'-10"

NOTE: SAMPLE BAR REPLACEMENT LENGTHS BASED ON 30" (SAMPLE LENGTH) PLUS TWO SPLICE LENGTHS AND fy= 60ksi.

**TOTAL BILL OF MATERIAL**

	REMOVAL OF EXISTING STRUCTURE @ STA.21+13.32 -NBL-	ASBESTOS ASSESSMENT	3'-6" DIAMETER DRILLED PIER IN SOIL	3'-6" DIAMETER DRILLED PIER NOT IN SOIL	CSL TESTING	UNCLASSIFIED STRUCTURE EXCAVATION	REINFORCING CONCRETE DECK SLAB	GROOVING BRIDGE FLOORS	CLASS A CONCRETE	BRIDGE APPROACH SLAB	REINFORCING STEEL	SPIRAL COLUMN REINFORCING STEEL	APPROXIMATE 324,150 LB. STRUCTURAL STEEL	PILE DRIVING EQUIPMENT SETUP FOR HP 12 X 53 STEEL PILES	HP 12 X 53 STEEL PILES	CONCRETE BARRIER RAIL	4" SLOPE PROTECTION	ELASTOMERIC BEARINGS	EXPANSION JOINT SEALS	
	LS	LS	LF	LF	EA	LS	SF	SF	CY	LS	LB	LB	LS	EA	NO.	LF	LF	SY	LS	LS
SUPERSTRUCTURE							8,359	8,465		LS			LS				463.08			
END BENT 1									49.4		6,495			7	7	245		440		
BENT 1			50.7	30.0					54.1		15,468	2,998								
BENT 2			40.7	30.0					53.1		14,928	2,834								
END BENT 2									48.4		6,119			7	7	245		445		
TOTAL	LS	LS	91.4	60.0	1	LS	8,359	8,465	205.0	LS	43,010	5,832	LS	14	14	490	463.08	885	LS	LS

**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 STURCTURES, SEE SPECIAL PROVISIONS.  
 REMOVABLE FORMS MAY BE USED IN LIEU OF METAL STAY-IN-PLACE FORMS IN ACCORDANCE WITH ARTICLE 420-3 OF THE STANDARD SPECIFICATIONS.  
 THE RAILROAD TRACK TOP OF RAIL ELEVATIONS ON THE PLANS ARE FROM THE BEST INFORMATION AVAILABLE. PRIOR TO BEGINNING BRIDGE CONSTRUCTION, VERIFY THE TOP OF RAIL ELEVATIONS AND REPORT ANY VARIATIONS TO THE ENGINEER. ANY PLAN REVISIONS NECESSARY TO ACHIEVE THE REQUIRED MINIMUM CLEARANCE WILL BE PROVIDED BY THE DEPARTMENT.  
 NEEDLE BEAMS WILL NOT BE ALLOWED UNLESS OTHERWISE CALLED FOR ON THE PLANS OR APPROVED BY THE ENGINEER.  
 ALL STRUCTRAL STEEL SHALL BE AASHTO M270 GRADE 50W AND PAINTED IN ACCORDANCE WITH SYSTEM 5 OR SYSTEM 6 OF SECTION 442-8 OF THE STANDARD SPECIFICATIONS UNLESS OTHERWISE NOTED ON THE PLANS.  
 FOR ASBESTOS ASSESSMENT FOR BRIDGE DEMOLITION AND RENOVATION ACTIVITIES, SEE SPECIAL PROVISIONS.  
 FOR EROSION CONTROL MEASURES, SEE EROSION CONTROL PLANS.

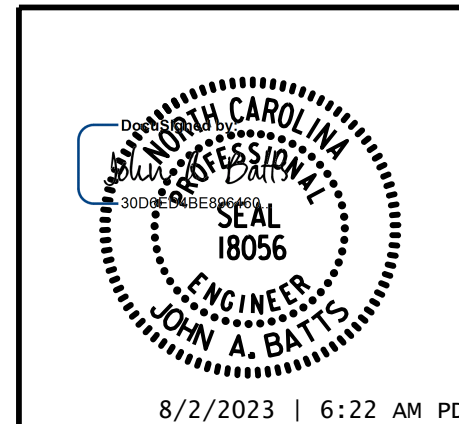
INASMUCH AS THE PAINT SYSTEM ON THE EXISTING STRUCTURAL STEEL CONTAINS LEAD, THE CONTRACTOR'S ATTENTION IS DIRECTED TO ARTICLE 107-1 OF THE STANDARD SPECIFICATIONS. ANY COSTS RESULTING FROM COMPLIANCE WITH APPLICABLE STATE OR FEDERAL REGULATIONS PERTAINING TO HANDLING OF MATERIALS CONTAINING LEAD BASED PAINT SHALL BE INCLUDED IN THE BID PRICE FOR "REMOVAL OF EXISTING STRUCTURE AT STATION 21+13.32 -NBL-."  
 TEMPORARY SHORING WILL BE REQUIRED IN THE AREA INDICATED IN THE PLAN VIEW.  
 FOR LIMITS OF TEMPORARY SHORING FOR MAINTENANCE OF TRAFFIC, SEE TRAFFIC CONTROL PLANS. FOR PAY ITEMS FOR TEMPORARY SHORING FOR MAINTENANCE OF TRAFFIC, SEE ROADWAY PLANS.  
 THE EXISTING STRUCTURE, CONSISTING OF 3 SPAN CONCRETE DECK ON STEEL BEAMS AT 60'-0", 65'-0", AND 60'-0" WITH A CLEAR ROADWAY WIDTH OF 30'-0" ON CONCRETE END BENT CAPS WITH STEEL PILES AND CONCRETE POST AND BEAM INTERIOR BENTS, SHALL BE REMOVED.  
 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.  
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SHEET 4 OF 4

STATE OF NORTH CAROLINA  
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REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S1-04
1			3			TOTAL SHEETS 40
2			4			



DRAWN BY : S.D. COOPER DATE : 12-22  
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