



STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION

ROY COOPER  
GOVERNOR

J. ERIC BOYETTE  
SECRETARY

September 14, 2022

**Addendum No. 3**

RE: Contract # C204739

WBS # 32572.3.14

FEDERAL-AID NO. 0129008

**Graham County (A-0009CB)**

NC 143 FROM SR 1223 (BEECH CREEK ROAD) TO 0.5 MILES NORTH OF APPALACHIAN TRAIL.

**September 20, 2022 Letting**

To Whom It May Concern:

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

The following revisions have been made to the Structures plans.

Sheet No.	Revision
S-1	Added Note: All Precast Concrete Arch Units shall be installed in place before any fill can be placed on the units.
S-3	Added a minimum 6" dimension from the top of parapet to the proposed fill.

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

The contract will be prepared accordingly.

Sincerely,

DocuSigned by:  
*Ronald Elton Davenport, Jr.*  
F81B6038A47A442...

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

RED/cms

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)

Attachments

cc: Mr. Boyd Tharrington, PE  
Ms. Wanda Austin, PE  
Mr. Jon Weathersbee, PE  
Mr. Ken Kennedy, PE  
Project File (2)

Mr. Forrest Dungan, PE  
Ms. Jaci Kincaid  
Mr. Kyle Kempf  
Ms. Lori Strickland  
Mr. Mike Gwyn  
Ms. Penny Higgins

**NOTES**

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.  
 FOR MAINTENANCE AND PROTECTION OF TRAFFIC BENEATH PROPOSED STRUCTURE AT STATION 381+40.00 -L-, SEE SPECIAL PROVISIONS.  
 FOR PRECAST CONCRETE ARCH BRIDGE, SEE SPECIAL PROVISIONS.  
 FOR MEMBRANE WATERPROOFING SYSTEM, 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 SAMPLE BARS SHOULD COME FROM STEEL ACTUALLY USED IN THE PROJECT AND THE SAMPLE BARS SHOULD BE REPLACED BY SPLICED BARS AS SPECIFIED IN THE SAMPLE BAR REPLACEMENT CHART. PAYMENT FOR THE SAMPLE BARS AND REPLACEMENT REINFORCING STEEL SHALL BE CONSIDERED INCIDENTAL TO VARIOUS PAY ITEMS.

THE DETAILS SHOWN HERE ARE FOR GENERAL LAYOUT ONLY. THE CONTRACTOR SHALL SUPPLY DESIGNS AND DETAILS FOR REVIEW AND APPROVAL THAT MEET THE REQUIREMENTS OF AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS AND SHALL BE SEALED BY A NORTH CAROLINA REGISTERED PROFESSIONAL ENGINEER.

THESE PLANS SHALL BE USED IN CONJUNCTION AND COORDINATE WITH THE PRECAST CONCRETE ARCH BRIDGE MANUFACTURER'S PLANS. THE CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO COMMENCING WITH CONSTRUCTION.

ARCHITECTURAL CONCRETE SURFACE TREATMENT SHALL BE APPLIED TO THE OUTSIDE FACES OF THE CONCRETE ARCH LAND BRIDGE, CONCRETE BENTS AND CONCRETE PARAPETS AS DETAILED ON THE PLANS. FOR ARCHITECTURAL CONCRETE SURFACE TREATMENT, SEE SPECIAL PROVISIONS.

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

FOR PAYMENT FOR WILDLIFE FENCE, SEE ROADWAY PLANS AND SPECIAL PROVISIONS.

THE WILDLIFE FENCE ON THE PRECAST CONCRETE ARCH BRIDGE SHALL BE INSTALLED PRIOR TO FILL BEING PLACED ON THE UNITS.

FINAL ELEVATIONS OF THE PRECAST REINFORCED ARCH BRIDGE, INCLUDING TOP OF PARAPET ELEVATIONS, ARCH PEDESTAL ELEVATIONS AND FOOTING ELEVATIONS SHALL BE DETERMINED BY THE CONTRACTOR IN ACCORDANCE WITH THE REQUIRED MINIMUM VERTICAL AND HORIZONTAL CLEARANCES, FIELD CONDITIONS AND DIMENSIONS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

ALL PRECAST CONCRETE ARCH UNITS SHALL BE INSTALLED IN PLACE BEFORE ANY FILL CAN BE PLACED ON THE UNITS.

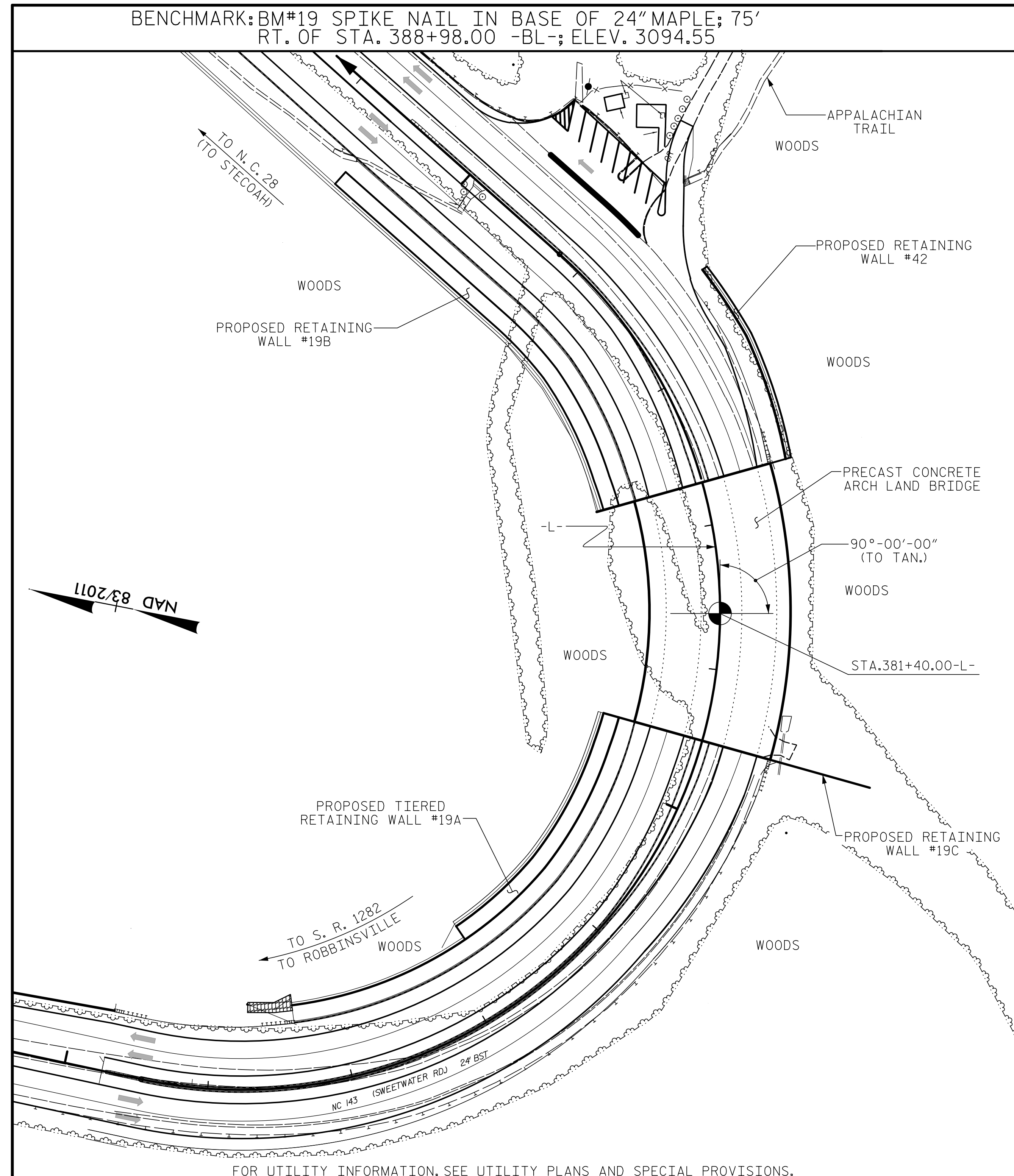
**TOTAL STRUCTURE QUANTITIES**

PRECAST CONCRETE ARCH BRIDGE	LUMP SUM
MEMBRANE WATERPROOFING SYSTEM	LUMP SUM
ARCHITECTURAL CONCRETE SURFACE TREATMENT	3000 SQ. FT.

**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  $f_y = 60\text{ksi}$ .



**LOCATION SKETCH**

PROJECT NO. A-0009CB  
GRAHAM COUNTY  
 STATION: 381+40.00 -L-

SHEET 1 OF 6

STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 RALEIGH

**PRECAST CONCRETE ARCH LAND BRIDGE**  
 OVER NC 143 BETWEEN SR 1282 AND NC 28

9/13/2022 | 9:27 AM EDT

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

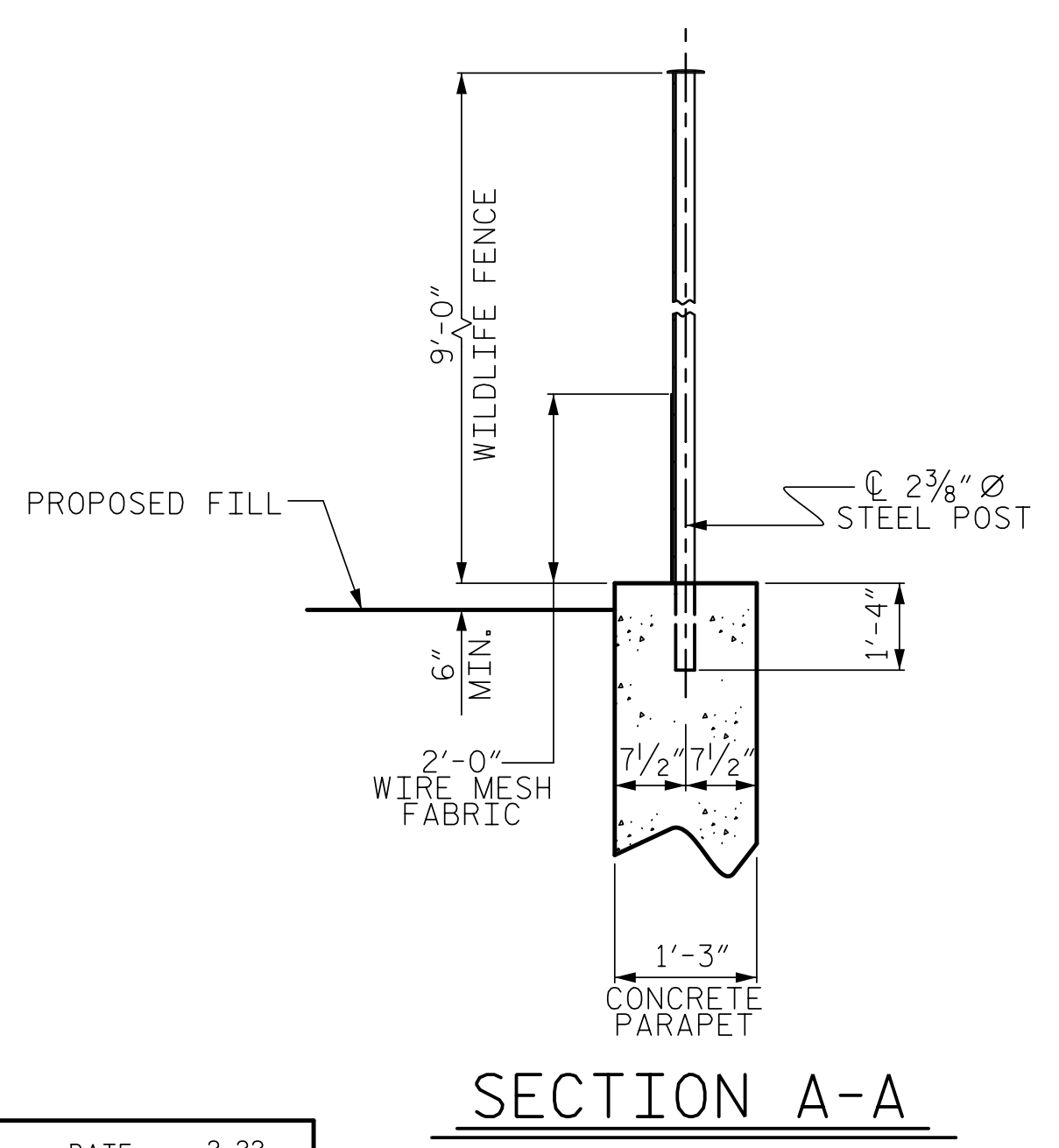
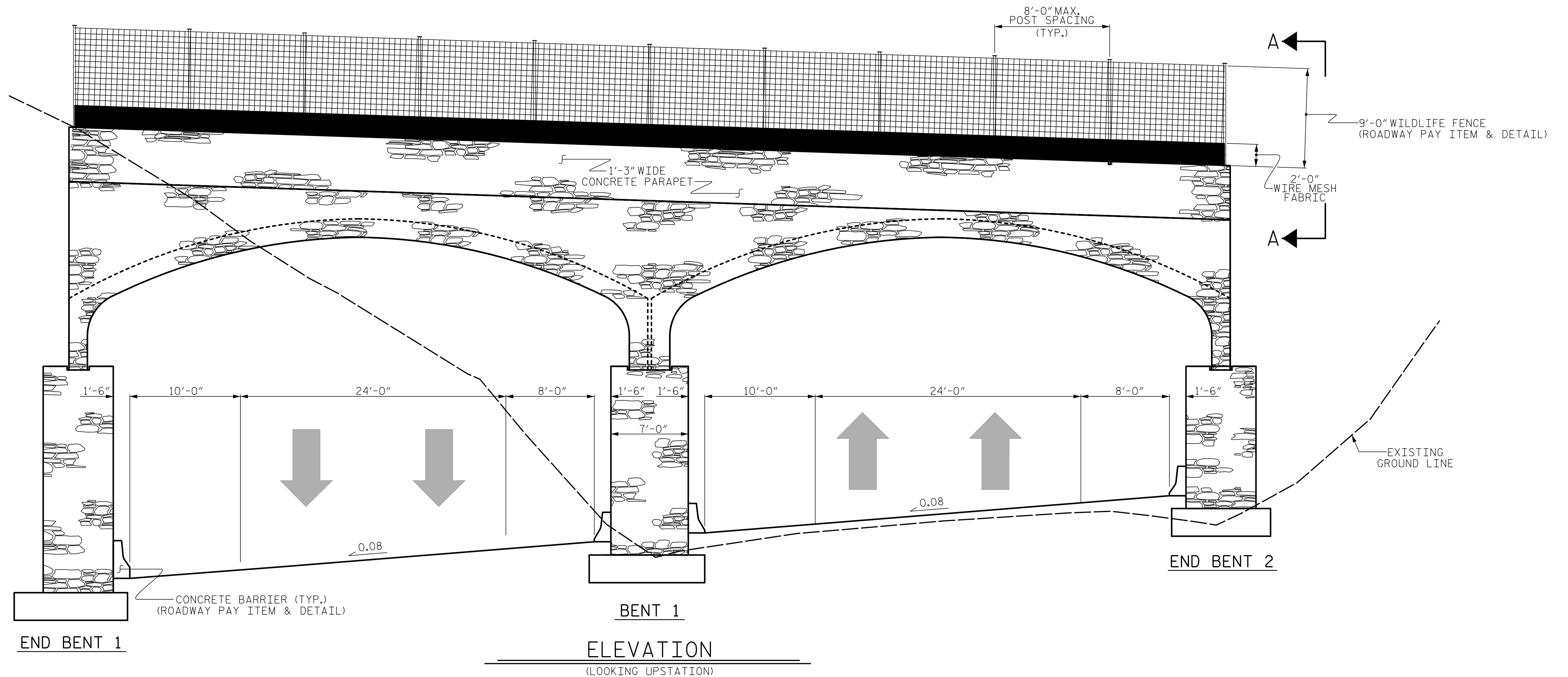
TGS ENGINEERS  
 706 HILLSBOROUGH STREET SUITE 200  
 RALEIGH, NC 27603  
 PH (919) 773-8887  
 CORP. LICENSE NO.: C-0275

REVISIONS

NO.	BY:	DATE:	NO.	BY:	DATE:
1			3		
2			4		

SHEET NO. S-1  
 TOTAL SHEETS 6

DRAWN BY : S. B. WILLIAMS DATE : 3-22  
 CHECKED BY : MGC DATE : 3-22



**NOTES**

THE WILDLIFE FENCE POST SHALL BE EMBEDDED INTO THE PARAPET IN A SLEEVE OR BLOCKOUT AND ANCHORED WITH AN EPOXY OR CONCRETE GROUT ANCHORING SYSTEM. THE POST HOLE OPENING SHALL BE A MINIMUM OF 1/2" LARGER THAN THE OUTER DIAMETER OF THE POST. FOR WILDLIFE FENCE, SEE ROADWAY SPECIAL PROVISIONS.

PROJECT NO. A-0009CB  
GRAHAM COUNTY  
 STATION: 381+40.00 -L-

SHEET 3 OF 6

9/13/2022 | 9:27 AM EDT

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**PRECAST CONCRETE  
 ARCH LAND BRIDGE**

OVER NC 143 BETWEEN  
 SR 1282 AND NC 28

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1			3		
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 CORP. LICENSE NO.: C-0275

SHEET NO. S-3  
 TOTAL SHEETS 6

DRAWN BY : S.B. WILLIAMS DATE : 2-22  
 CHECKED BY : MGC DATE : 3-22