



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

ROY COOPER
GOVERNOR

JAMES H. TROGDON, III
SECRETARY

February 16, 2018

Addendum No. 1

RE: Contract # C204066

WBS # 46089.3.1

F. A. # BRZ-2154(1)

Union County (B-5374)

Bridge #448 Over Buffalo Creek On SR-2154

February 20, 2018 Letting

To Whom It May Concern:

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

The following revision has been made to the Structure plans.

Sheet No.	Revisions
C-1	Added Culvert Excavation to the Bill of Materials and revised the note concerning the Temporary Shoring

Please void Sheet No C-1 in your plans and staple the revised sheet thereto.

The following revisions have been made to the proposal:

Page No.	Revisions
Proposal Cover	Note added that reads "Includes Addendum No. 1 Dated 2-16-2018".

Please void the proposal cover and staple the revised proposal cover thereto.

On the item sheets the following pay item has been added:

<u>Item</u>	<u>Description</u>	<u>Old Quantity</u>	<u>New Quantity</u>
077-812600000-N-414	Culvert Excavation	NEW ITEM	Lump Sum

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

Website: www.ncdot.gov

Location:
1020 BIRCH RIDGE DR.
RALEIGH, NC 27610

The Contractor's bid must include the new pay item.

The Expedite File has been updated to reflect this revision. Please download the Expedite 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:
Ronald E. Davenport, Jr.

F81B6038A47A442...

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

RED/jag
Attachments

cc: Mr. Lamar Sylvester, PE
Mr. Scott Cole, PE
Mr. Chris Werner, PE
Mr. Ken Kennedy, PE
Mr. Jon Weathersbee, PE
Ms. Jaci Kincaid
Project File (2)

Mr. Ray Arnold, PE
Ms. Theresa Canales, PE
Mr. Mike Gwyn
Ms. Penny Higgins
Mr. Mitchell Dixon
Ms. Lori Strickland

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

PROPOSAL

INCLUDES ADDENDUM No. 1 DATED 02-16-2018

DATE AND TIME OF BID OPENING: **FEBRUARY 20, 2018 AT 2:00 PM**

CONTRACT ID C204066
WBS 46089.3.1

FEDERAL-AID NO. BRZ-2154(1)
COUNTY UNION
T.I.P. NO. B-5374
MILES 0.174
ROUTE NO. SR 2154
LOCATION BRIDGE #448 OVER BUFFALO CREEK ON SR-2154.

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

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 & CULVERT PROPOSAL

5% BID BOND OR BID DEPOSIT REQUIRED

County: Union

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
ROADWAY ITEMS						
0001	0000100000-N	800	MOBILIZATION	Lump Sum	L.S.	
0002	0000400000-N	801	CONSTRUCTION SURVEYING	Lump Sum	L.S.	
0003	0043000000-N	226	GRADING	Lump Sum	L.S.	
0004	0050000000-E	226	SUPPLEMENTARY CLEARING & GRUB-BING	1 ACR		
0005	0057000000-E	226	UNDERCUT EXCAVATION	650 CY		
0006	0134000000-E	240	DRAINAGE DITCH EXCAVATION	120 CY		
0007	0195000000-E	265	SELECT GRANULAR MATERIAL	600 CY		
0008	0196000000-E	270	GEOTEXTILE FOR SOIL STABILIZATION	900 SY		
0009	0318000000-E	300	FOUNDATION CONDITIONING MATERIAL, MINOR STRUCTURES	10 TON		
0010	0320000000-E	300	FOUNDATION CONDITIONING GEOTEXTILE	30 SY		
0011	0372000000-E	310	18" RC PIPE CULVERTS, CLASS III	88 LF		
0012	0995000000-E	340	PIPE REMOVAL	79 LF		
0013	1099500000-E	505	SHALLOW UNDERCUT	100 CY		
0014	1099700000-E	505	CLASS IV SUBGRADE STABILIZATION	200 TON		
0015	1220000000-E	545	INCIDENTAL STONE BASE	50 TON		
0016	1330000000-E	607	INCIDENTAL MILLING	110 SY		
0017	1491000000-E	610	ASPHALT CONC BASE COURSE, TYPE B25.0C	500 TON		
0018	1519000000-E	610	ASPHALT CONC SURFACE COURSE, TYPE S9.5B	390 TON		
0019	1575000000-E	620	ASPHALT BINDER FOR PLANT MIX	50 TON		

County: Union

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0020	1693000000-E	654	ASPHALT PLANT MIX, PAVEMENT REPAIR	100 TON		
0021	2022000000-E	815	SUBDRAIN EXCAVATION	44.8 CY		
0022	2026000000-E	815	GEOTEXTILE FOR SUBSURFACE DRAINS	200 SY		
0023	2036000000-E	815	SUBDRAIN COARSE AGGREGATE	33.6 CY		
0024	2044000000-E	815	6" PERFORATED SUBDRAIN PIPE	200 LF		
0025	2070000000-N	815	SUBDRAIN PIPE OUTLET	1 EA		
0026	2077000000-E	815	6" OUTLET PIPE	6 LF		
0027	3030000000-E	862	STEEL BEAM GUARDRAIL	625 LF		
0028	3150000000-N	862	ADDITIONAL GUARDRAIL POSTS	4 EA		
0029	3288000000-N	SP	GUARDRAIL END UNITS, TYPE TL-2	4 EA		
0030	3635000000-E	876	RIP RAP, CLASS II	300 TON		
0031	3656000000-E	876	GEOTEXTILE FOR DRAINAGE	510 SY		
0032	4400000000-E	1110	WORK ZONE SIGNS (STATIONARY)	162 SF		
0033	4405000000-E	1110	WORK ZONE SIGNS (PORTABLE)	96 SF		
0034	4410000000-E	1110	WORK ZONE SIGNS (BARRICADE MOUNTED)	36 SF		
0035	4430000000-N	1130	DRUMS	12 EA		
0036	4435000000-N	1135	CONES	56 EA		
0037	4445000000-E	1145	BARRICADES (TYPE III)	16 LF		
0038	4455000000-N	1150	FLAGGER	12 DAY		
0039	4465000000-N	1160	TEMPORARY CRASH CUSHIONS	2 EA		

County: Union

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0040	4490000000-E	1170	PORTABLE CONCRETE BARRIER (ANCHORED)	240 LF		
0041	4810000000-E	1205	PAINT PAVEMENT MARKING LINES (4")	1,118 LF		
0042	6000000000-E	1605	TEMPORARY SILT FENCE	400 LF		
0043	6006000000-E	1610	STONE FOR EROSION CONTROL, CLASS A	35 TON		
0044	6009000000-E	1610	STONE FOR EROSION CONTROL, CLASS B	100 TON		
0045	6012000000-E	1610	SEDIMENT CONTROL STONE	110 TON		
0046	6015000000-E	1615	TEMPORARY MULCHING	1.5 ACR		
0047	6018000000-E	1620	SEED FOR TEMPORARY SEEDING	100 LB		
0048	6021000000-E	1620	FERTILIZER FOR TEMPORARY SEED- ING	0.5 TON		
0049	6024000000-E	1622	TEMPORARY SLOPE DRAINS	200 LF		
0050	6029000000-E	SP	SAFETY FENCE	200 LF		
0051	6030000000-E	1630	SILT EXCAVATION	210 CY		
0052	6036000000-E	1631	MATTING FOR EROSION CONTROL	3,820 SY		
0053	6037000000-E	SP	COIR FIBER MAT	100 SY		
0054	6038000000-E	SP	PERMANENT SOIL REINFORCEMENT MAT	500 SY		
0055	6042000000-E	1632	1/4" HARDWARE CLOTH	225 LF		
0056	6045000000-E	SP	*** TEMPORARY PIPE (30")	165 LF		
0057	6070000000-N	1639	SPECIAL STILLING BASINS	2 EA		
0058	6071012000-E	SP	COIR FIBER WATTLE	130 LF		

County: Union

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0059	6071014000-E	SP	COIR FIBER WATTLE BARRIER	60 LF		
0060	6071020000-E	SP	POLYACRYLAMIDE (PAM)	30 LB		
0061	6071030000-E	1640	COIR FIBER BAFFLE	100 LF		
0062	6084000000-E	1660	SEEDING & MULCHING	1.5 ACR		
0063	6087000000-E	1660	MOWING	0.75 ACR		
0064	6090000000-E	1661	SEED FOR REPAIR SEEDING	50 LB		
0065	6093000000-E	1661	FERTILIZER FOR REPAIR SEEDING	0.25 TON		
0066	6096000000-E	1662	SEED FOR SUPPLEMENTAL SEEDING	50 LB		
0067	6108000000-E	1665	FERTILIZER TOPDRESSING	1 TON		
0068	6111000000-E	SP	IMPERVIOUS DIKE	80 LF		
0069	6114500000-N	1667	SPECIALIZED HAND MOWING	10 MHR		
0070	6117000000-N	SP	RESPONSE FOR EROSION CONTROL	13 EA		
0071	6117500000-N	SP	CONCRETE WASHOUT STRUCTURE	1 EA		

CULVERT ITEMS

0072	8035000000-N	402	REMOVAL OF EXISTING STRUCTURE AT STATION ***** (15+40.00-L-)	Lump Sum	L.S.	
0073	8065000000-N	SP	ASBESTOS ASSESSMENT	Lump Sum	L.S.	
0074	8133000000-E	414	FOUNDATION CONDITIONING MATER- IAL, BOX CULVERT	111 TON		
0075	8196000000-E	420	CLASS A CONCRETE (CULVERT)	212 CY		
0076	8245000000-E	425	REINFORCING STEEL (CULVERT)	24,886 LB		

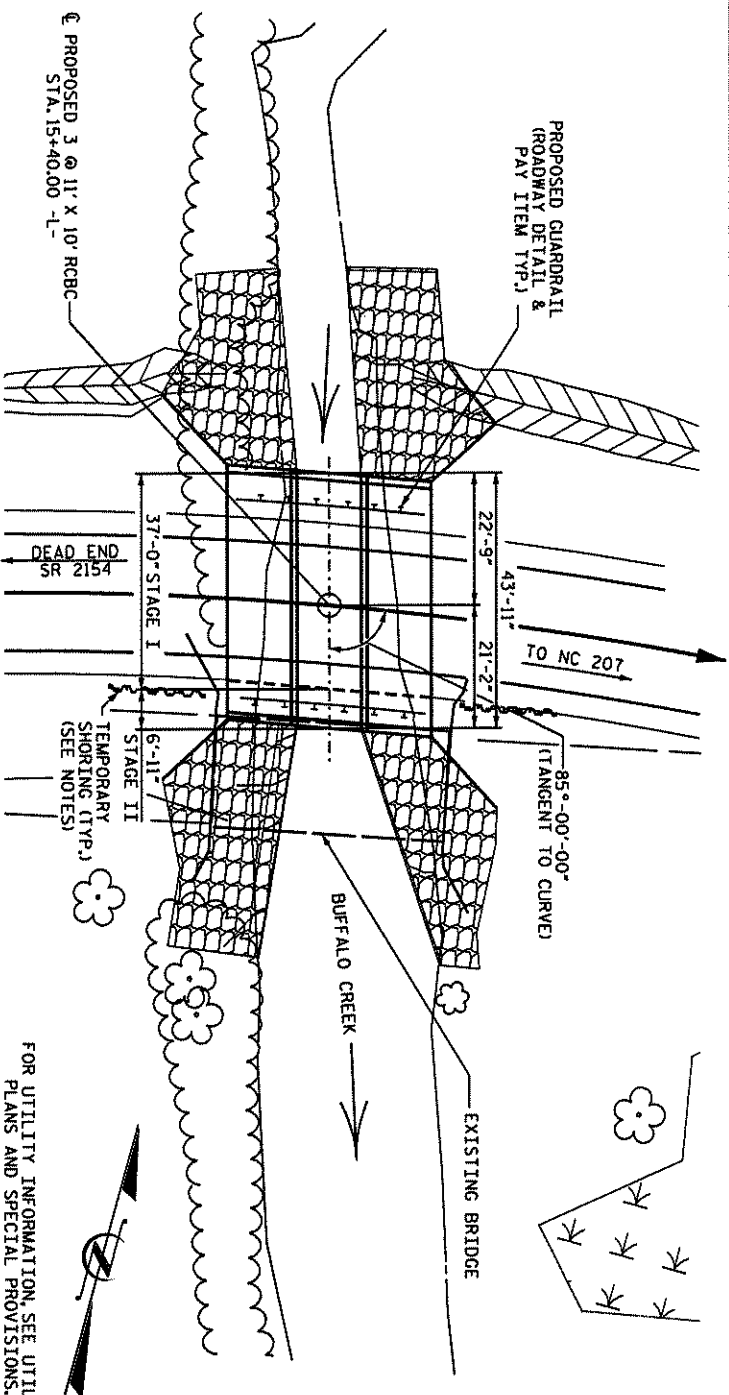
County: Union

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0077	8126000000-N	414	CULVERT EXCAVATION, STA ***** (15+40.00-L-)	Lump Sum	L.S.	

1429/Feb15/Q39567.9/D318020776000/E77

Total Amount Of Bid For Entire Project :

BENCH MARK #2: RR SPIKE IN BASE OF 32" GUM TREE. EL.561.86
 STA. 16+08.00 -L-, 81.0' RT



LOCATION SKETCH

FOR UTILITY INFORMATION, SEE UTILITY PLANS AND SPECIAL PROVISIONS.

STAGE I QUANTITIES	STAGE II QUANTITIES
CLASS "A" CONCRETE	CLASS "A" CONCRETE
BARREL 3,697 C.Y./FT.	BARREL 3,697 C.Y./FT.
WINGS, SILLS ETC. 24.8 C.Y.	WING, STILL ETC. 24.8 C.Y.
TOTAL 161.6 C.Y.	TOTAL 50.4 C.Y.
REINFORCING STEEL	REINFORCING STEEL
BARREL 18503 LBS.	BARREL 3953 LBS.
WINGS ETC. 1215 LBS.	WING ETC. 1215 LBS.
TOTAL 19718 LBS.	TOTAL 5168 LBS.
FOUNDATION CONDITIONING MATERIAL 93.5 TONS	FOUNDATION CONDITIONING MATERIAL 17.5 TONS

TOTAL STRUCTURE QUANTITIES (STAGE I & STAGE II)	ASBESTOS ASSESSMENT	LUMP SUM
REMOVAL OF EXISTING STRUCTURE		LUMP SUM
FOUNDATION CONDITIONING MATERIAL III TONS		LUMP SUM
CLASS A CONCRETE		LUMP SUM
BARREL 162.4 C.Y.		
WINGS, SILLS ETC. 49.6 C.Y.		
TOTAL 212.0 C.Y.		
REINFORCING STEEL		
BARREL 22456 LBS.		
WINGS ETC. 2430 LBS.		
TOTAL 24886 LBS.		
CULVERT EXCAVATION		LUMP SUM
		LUMP SUM

HYDRAULIC DATA

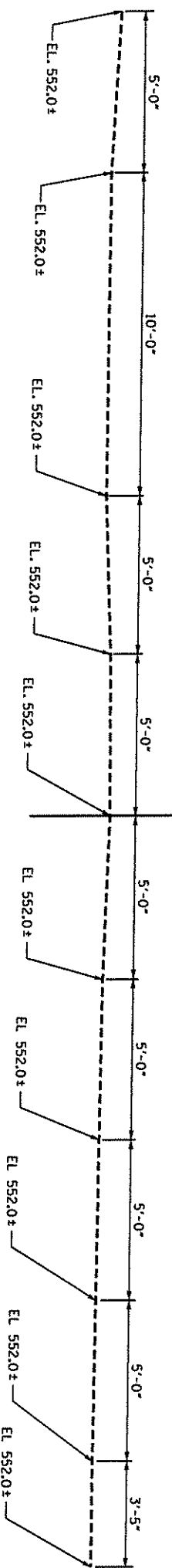
DESIGN DISCHARGE = 1200 CFS
 FREQUENCY OF DESIGN FLOOD = 25 YRS.
 DESIGN HIGH WATER ELEVATION = 559.9 FT.
 DRAINAGE AREA = 3.68 SQ. MI.
 BASE DISCHARGE (0100) = 1688 CFS
 BASE HIGH WATER ELEVATION = 560.99 FT.

OVERTOPPING FLOOD DATA

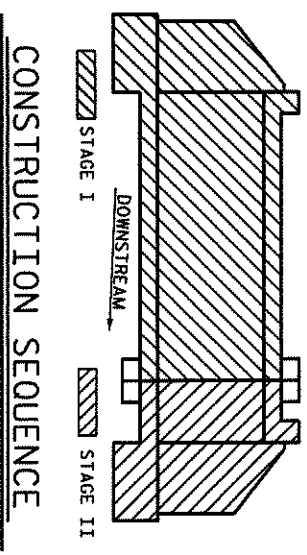
OVERTOPPING DISCHARGE = 3100 CFS
 FREQUENCY OF OVERTOPPING FLOOD = 500+ YRS.
 OVERTOPPING FLOOD ELEVATION = 565.0 FT.

GRADE DATA -L-

GRADE POINT ELEV. @ STA. 15+40.00 -L- = 564.38
 BED ELEVATION @ STA. 15+40.00 -L- = 551.00
 ROADWAY SLOPES = 2:1



PROFILE ALONG CULVERT



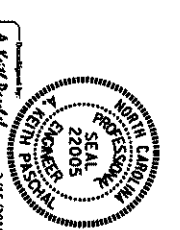
CONSTRUCTION SEQUENCE

I HEREBY CERTIFY THESE PLANS ARE THE AS-BUILT PLANS

NOTES

- ASSUMED LIVE LOAD -----HL-93 OR ALTERNATE LOADING.
 DESIGN FILL-----3.77 FT. MAX., 2.98 FT. MIN.
 FOR OTHER DESIGN DATA AND NOTES SEE STANDARD NOTE SHEET.
 3"Ø WEEP HOLES INDICATED TO BE IN ACCORDANCE WITH THE SPECIFICATIONS.
 THE RESIDENT ENGINEER SHALL CHECK THE LENGTH OF CULVERT BEFORE STAKING IT OUT TO MAKE CERTAIN THAT IT WILL PROPERLY TAKE CARE OF THE FILL.
 DIMENSIONS FOR WING LAYOUT AS WELL AS ADDITIONAL REINFORCING STEEL EMBEDDED IN BARREL ARE SHOWN ON WING SHEET.
 STEEL IN THE BOTTOM SLAB MAY BE SPICED AT THE PERMITTED CONSTRUCTION JOINT AT THE CONTRACTOR'S OPTION, EXTRA WEIGHT OF STEEL DUE TO THE SPLICES SHALL BE PAID FOR BY THE CONTRACTOR.
 AT THE CONTRACTOR'S OPTION, HE MAY SPlice THE VERTICAL REINFORCING STEEL IN THE INTERIOR FACE OF EXTERIOR WALL AND BOTH FACES OF INTERIOR WALLS ABOVE LOWER WALL CONSTRUCTION JOINT. THE SPLICE LENGTH SHALL BE AS PROVIDED IN THE SPLICE LENGTH CHART SHOWN ON THE PLANS, EXTRA WEIGHT OF STEEL DUE TO THE SPLICES SHALL BE PAID FOR BY THE CONTRACTOR.
 FOR CULVERT DIVERSION DETAILS AND PAY ITEM, SEE EROSION CONTROL PLANS.
 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.
 AFTER SERVING AS A TEMPORARY STRUCTURE, THE EXISTING STRUCTURE CONSISTING OF 2 SPAN 1 @ 14'-8" AND 1 @ 25'-10" WITH A 19'-2" CLEAR ROADWAY AND TIMBER DECK ON 8 LINES OF W16 X 40 CONTINUOUS I BEAMS @ 2'-7" CENTERS AND TIMBER END BENT CAPS ON TIMBER POSTS AND STILL LOCATED AT THE PROPOSED STRUCTURE SHALL BE REMOVED. THE EXISTING BRIDGE IS NOT PRESENTLY POSTED FOR LOAD LIMIT. SHOULD THE STRUCTURAL INTEGRITY OF THE BRIDGE FURTHER DETERIORATE, THE LOAD LIMITATION MAY BE REDUCED AS FOUND NECESSARY DURING THE LIFE OF THE PROJECT.
 REMOVAL OF THE EXISTING BRIDGE SHALL BE PERFORMED IN A MANNER THAT PREVENTS DEBRIS FROM FALLING INTO THE WATER. THE CONTRACTOR SHALL SUBMIT DEMOLITION PLANS FOR REVIEW AND REMOVE THE BRIDGE IN ACCORDANCE WITH ARTICLE 402-2 OF THE STANDARD SPECIFICATIONS. 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.
 TEMPORARY SHORING WILL BE REQUIRED IN THE AREAS SHOWN IN THE LOCATION SKETCH AND WILL BE INCLUDED IN THE LUMP SUM COST FOR CULVERT EXCAVATION.
- A 3 FOOT STRIP OF FILTER FABRIC SHALL BE ATTACHED TO THE FILL FACE OF THE WING COVERING THE ENTIRE LENGTH OF THE EXPANSION JOINT.
 THE REINFORCED CONCRETE BOX CULVERT SHALL BE PLACED ON THE STANDARD 1.0 FOOT BLANKET OF FOUNDATION CONDITIONING MATERIAL SEE SECTION 414 OF THE STANDARD SPECIFICATIONS.
 CONCRETE IN STAGE I CULVERT TO BE POURED IN THE FOLLOWING ORDER:
 1. WING FOOTINGS, CURTAIN WALL, EDGE BEAM AND FLOOR SLAB INCLUDING 4" OF ALL VERTICAL WALLS.
 2. THE REMAINING PORTION OF WALLS AND WINGS FULL HEIGHT.
 3. INLET SILLS.
 4. ROOF SLAB, EDGE BEAM AND HEADWALL.
 CONCRETE IN STAGE II CULVERT TO BE POURED IN THE FOLLOWING ORDER:
 1. WING FOOTINGS, CURTAIN WALL, EDGE BEAM AND FLOOR SLAB TO THE CONSTRUCTION JOINT INCLUDING 4" OF STAGE II VERTICAL WALLS.
 2. THE REMAINING PORTION OF STAGE II WALLS AND WINGS FULL HEIGHT.
 3. OUTLET SILLS.
 4. ROOF SLAB, EDGE BEAM AND HEADWALL.
 FOR ASBESTOS ASSESSMENT FOR BRIDGE DEMOLITION AND RENOVATION ACTIVITIES, SEE SPECIAL PROVISIONS.
 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
 FOR EROSION CONTROL MEASURES, SEE EROSION CONTROL PLANS.
 FOR CONSTRUCTION SEQUENCE, SEE EROSION CONTROL PLANS.
 THE REQUIRED BEARING CAPACITY AT THE BASE OF THE CULVERT IS 1 TSF. THE REQUIRED BEARING CAPACITY SHALL BE VERIFIED.
 AT THE CONTRACTOR'S OPTION HE MAY SUBMIT TO THE ENGINEER FOR APPROVAL DESIGN AND DETAIL DRAWINGS FOR A PRECAST REINFORCED CONCRETE BOX CULVERT IN LIEU OF THE CAST-IN-PLACE CULVERT SHOWN ON THE PLANS. THE DESIGN SHALL PROVIDE THE SAME SIZE AND NUMBER OF BARRELS AS USED ON THE CAST-IN-PLACE DESIGN. FOR OPTIONAL PRECAST REINFORCED CONCRETE BOX CULVERT, 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 SPICED WITH REPLACEMENT BARS OF THE SAME SIZE AND LENGTH OF THE SAMPLE, PLUS A MINIMUM LAP SPICE OF THIRTY BAR DIAMETERS. PAYMENT FOR THE SAMPLES OF REINFORCING STEEL SHALL BE CONSIDERED INCIDENTAL TO VARIOUS PAY ITEMS.

F.A. PROJECT NO.: BRZ-2154(1)



PROJECT NO. B-5374
 COUNTY UNION
 STATION: 15+40.00 -L-
 REPLACES BRIDGE NO. 448
 DEPARTMENT OF TRANSPORTATION
 TRIPLE 11 FT. X 10 FT. CONCRETE BOX CULVERT
 85° SKEW

DRAWN BY: B. N. BARBOUR
 CHECKED BY: H. I. BARBOUR
 DESIGN ENGINEER OF RECORD: E. K. POPE

DATE: 9-15-17
 DATE: 11-1-17
 DATE: 12-13-17

15-FEB-2018 13:00
 L:\STRUCTURE\Bridges\410.001.B-5374.SMU.C01.890448.dgn

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

NO.	BY	DATE	NO.	BY	DATE	SHEET NO.
1			2			C-1
2			3			9