



PAT McCrory  
Governor

NICHOLAS J. TENNYSON  
Secretary

December 6, 2016

**Addendum No. 1**

Contract No.: DA00331

WBS Element: 15001.1046010, ETC.

*Replacement of Existing Pipes / Culverts in Hertford and Northampton Counties*

To Whom It May Concern:

Reference is made to the proposal and plans previously furnished for this project.

The following revision has been made to the proposal:

Page No.68 "Additional Culvert Undercut" has been revised to clarify the depth requirements. Please void existing Page No. 68 and replace with revised Page No. 68.

Plan Sheet "Installation Detail" the detail has been revised to clarify the foundation conditioning material and to illustrate the geotextile fabric requirements. Please void the existing Plan Sheet "Installation Detail" and replace with the revised Plan Sheet "Installation Detail".

Technical Shop Drawings have been included for each site. Please include these details with the previously provided documents.

If you choose the "Electronic Bid Preparation with Manual Delivery Method" or "Traditional Paper Bid Method," please acknowledge receipt of Addendum #1 in the space provided on the Addendum Acknowledgement Form.

**If you choose the "Electronic Bid Preparation with Manual Delivery Method," place DA00331.001 in the same folder with DA00331.EBS, so that Expedite Bid will properly apply the addendum.**

Sincerely,  
DocuSigned by:

99A5A272ED6A447...

W. B. Hobbs, PE  
Division Project Manager

WBH/ces  
Attachment

cc: A. W. Roper, PE  
C. S. Mebane, PE  
J. S. Abel, Jr.



REVISED 12/6/2016

Payment will be made under:

**Pay Item**

Coir Fiber Mat

**Pay Unit**

Square Yard

**DEWATERING:****Description**

The contractor shall adhere to the permits for the dewatering process. The contractor may elect to dewater using sheet pile or aqua barriers. Any deviation from the permit must be pre-approved by the permitting agencies and NCDOT. No additional time or compensation will be granted if alternate methods are used.

**Measurement and Payment**

*Generic Erosion Control Item (Dewatering)* will be paid for at the lump sum price bid which will be full compensation for all items required in the construction and removal of the temporary bypass system for dewatering including, but not limited to, any necessary pumps, hardware, sheet pile, aqua barriers, silt bags, or any other items contained in Article 400 of the *Standard Specifications*.

Payment will be made under:

**Pay Item**

Generic Erosion Control Item (Dewatering)

**Pay Unit**

Lump Sum

**ADDITIONAL CULVERT UNDERCUT:****Description**

Additional undercut may be necessary at no fault of the contractor due to unsuitable pipe bed material.

**Measurement and Payment**

Any undercut beyond the specified 2' below pipe bed, that is out of the Contractor's control and as directed by the Engineer, will be paid for at the contract price as *Generic Culvert Item (Additional Culvert Undercut)* by the cubic yard which will be full compensation for all items required for additional undercut.

**Pay Item**

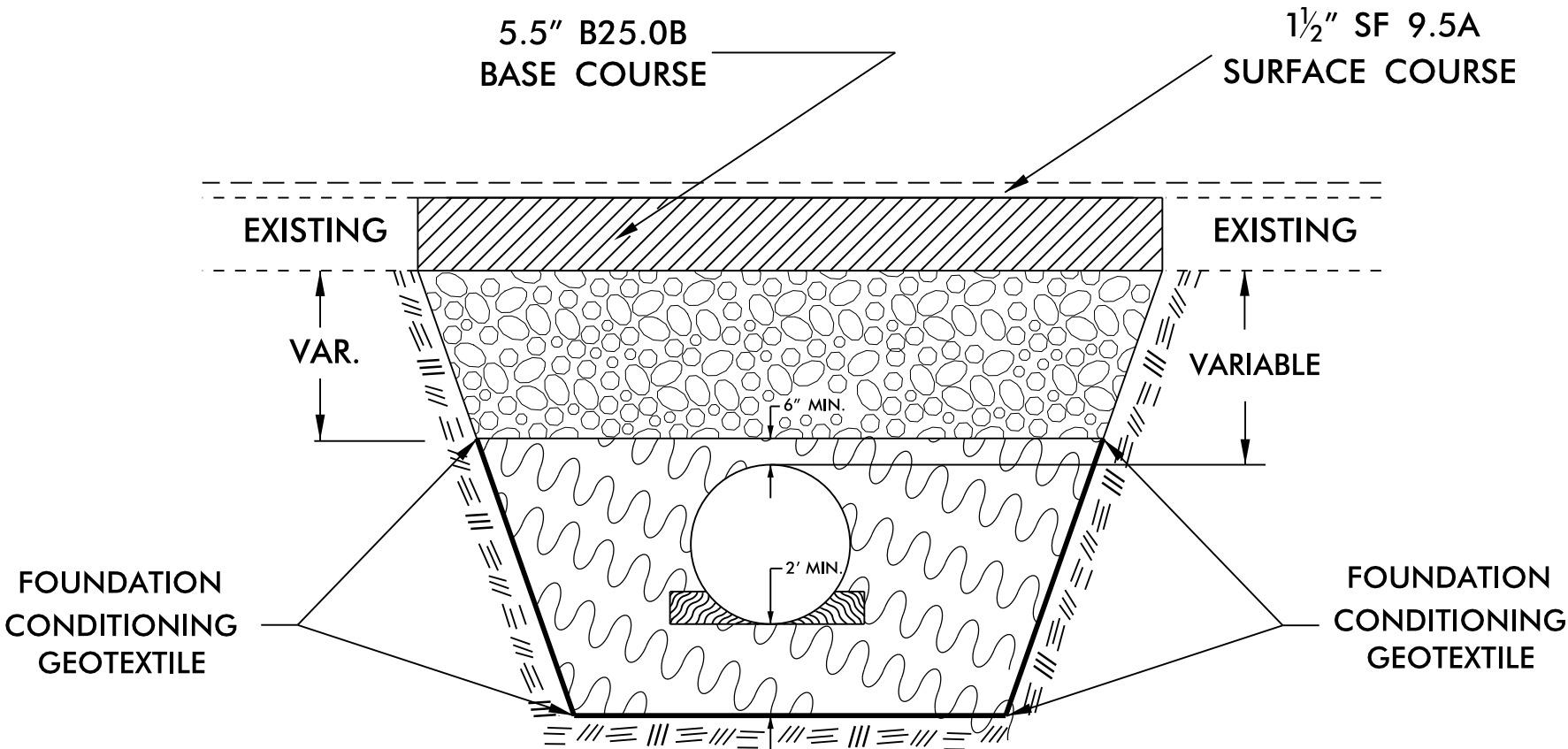
Generic Culvert Item (Additional Culvert Undercut)

**Pay Unit**

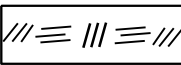
Cubic Yard

# INSTALLATION DETAIL

REVISED 12/6/2016



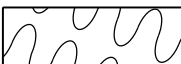
## CORRUGATED ALUMINUM ALLOY PIPE /CULVERTS



UNDISTURBED EARTH MATERIAL



TAKE CARE TO FULLY COMPACT  
HAUNCH ZONE OF PIPE BACKFILL



SELECT MATERIAL CLASS VI FOR FOUNDATION CONDITIONING MATERIAL  
ENGINEERING FABRIC WILL BE INSTALLED BELOW THIS MATERIAL AS DIRECTED BY THE ENGINEER

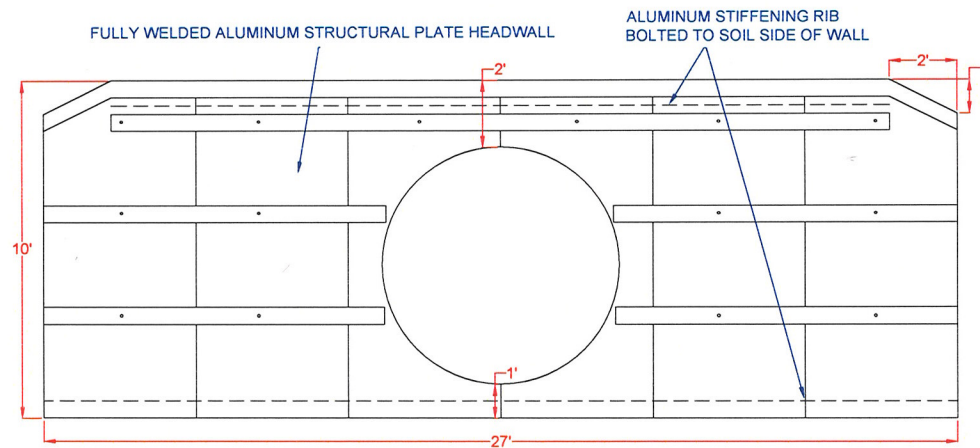


AGGREGATE BASE COURSE

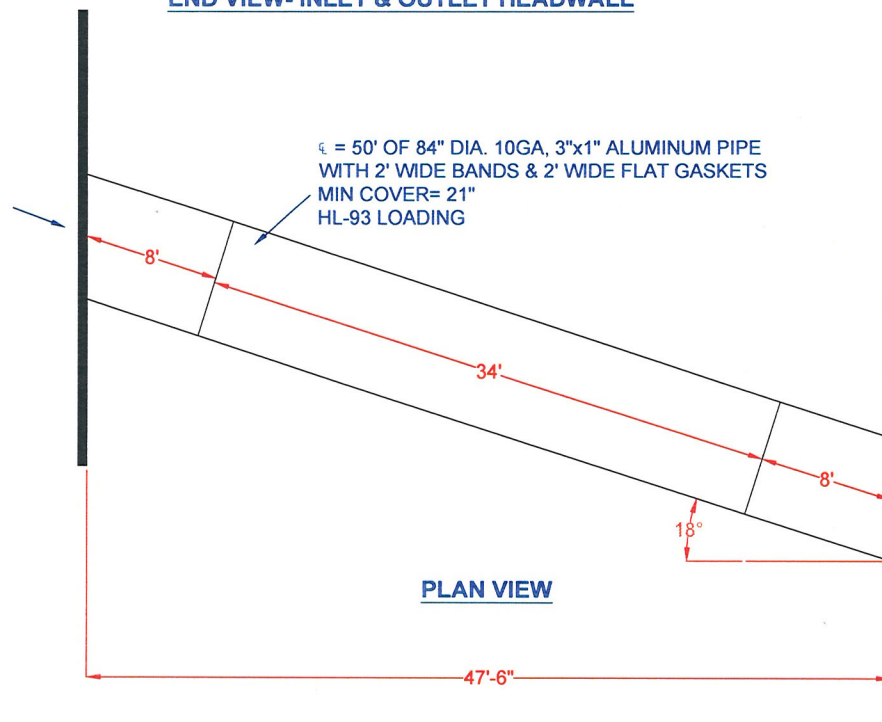
– NOT TO SCALE –

REVISIONS

05-DEC-2016 11:46  
C:\Users\Div\CC\Projects\DA00331\Projects\DA00331\Drawings\DA00331.dgn  
Projects\DA00331\Pre-Bid Documents\Addendum\DA00331\_Typical\_rev.dgn



END VIEW- INLET & OUTLET HEADWALL



PROPOSED ELEVATIONS:

EP OUTLET= 100.00  
EP INLET= 99.50  
TOP OF HW= 98.50  
TOP OF PIPE= 96.50  
INV. STREAM= 90.50  
INV. PIPE= 89.50

DESCRIPTION

NCDOT  
HERTFORD CO  
HORTON'S CHURCH RD

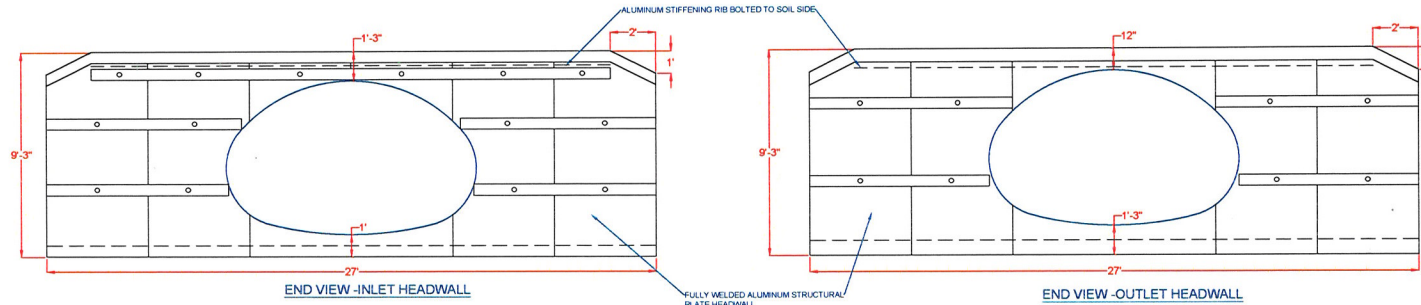
FIRM:

PROJECT:

DATE:  
OCT 27, 2016

SHEET

NOT TO SCALE



45 LF OF 11'-1" SPAN X 7'-0" RISE, .175" THCK,  
ALUMINUM STRUCTURAL PLATE PIPE ARCH,  
TYPE 2 RIBS 18" O.C.  
MIN. COVER - 1.5'  
HL-93 LOADING

PLAN VIEW

45'

FLOW

PROPOSED ELEVATIONS:

EDGE OF PAVEMENT ~ INLET - 100.00  
EDGE OF PAVEMENT ~ OUTLET - 98.66  
TOP OF WALL ~ INLET - 98.92  
TOP OF WALL ~ OUTLET - 98.58  
TOP OF STRUCTURE - 97.67  
INVERT OF STREAM - 91.67  
INVERT OF CULVERT - 90.67

\*\*INCLUDE ONE ROLL OF TENSAR TX-7

DESCRIPTION

NCDOT  
HERTFORD CO  
NC 561

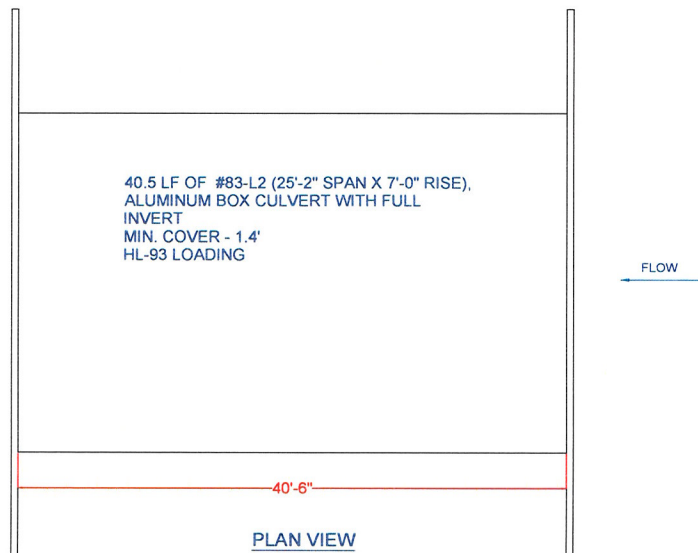
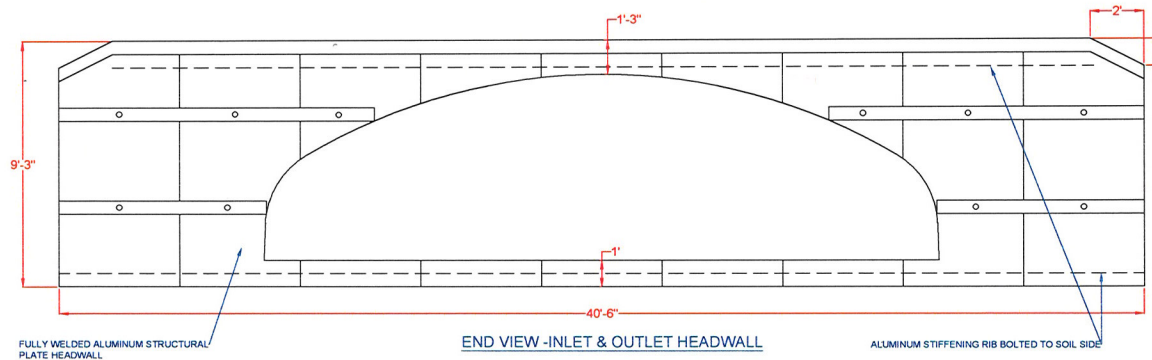
FIRM:

PROJECT:

DATE:  
OCT 27, 2016

SHEET

NOT TO SCALE

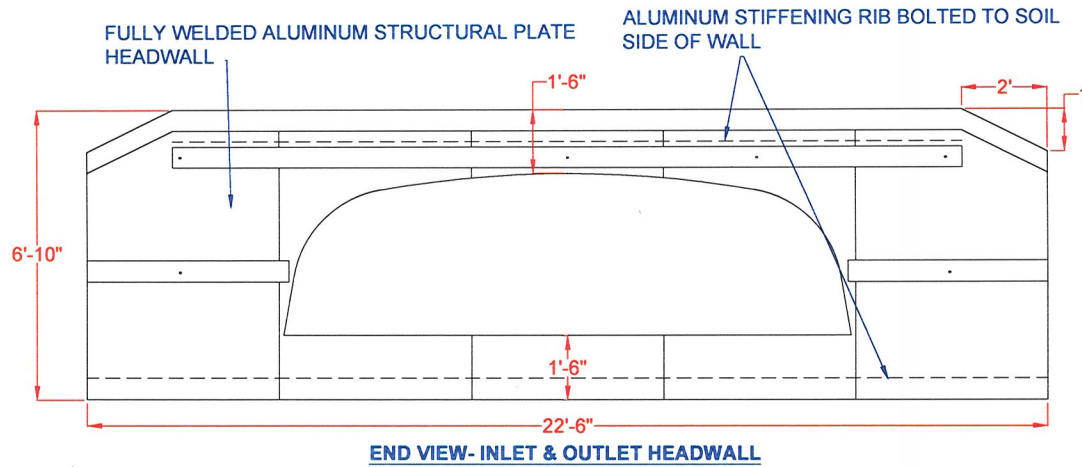


### PROPOSED ELEVATIONS:

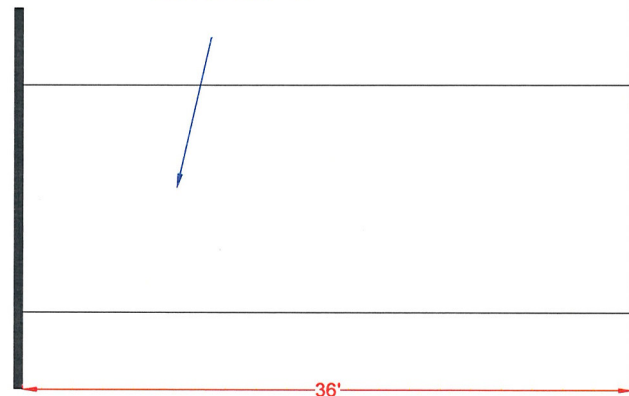
EDGE OF PAVEMENT ~ OUTLET - 100.00  
 EDGE OF PAVEMENT ~ INLET - 99.00  
 TOP OF WALL ~ INLET - 98.75  
 TOP OF WALL ~ OUTLET - 98.75  
 TOP OF STRUCTURE - 97.5  
 INVERT OF STREAM - 91.50  
 INVERT OF CULVERT - 90.50

DESCRIPTION	
NCDOT NORTH HAMPTON CO BRITTAN RD - SR 1337	
FIRM: POMONA PIPE PRODUCTS 4611 DUNDAS DR. GREENSBORO, NC 27407 336-292-8060	
PROJECT:	
DATE: OCT 27, 2016	SHEET
NOT TO SCALE	





#22-L2 (13'-4" SPAN X 3'-10" RISE)  
ALUMINUM BOX CULVERT WITH  
FULL INVERT  
HL93 LOADING  
MIN COVER= 1.4'  
MAX COVER= 4.0'



**PLAN VIEW**

**PROPOSED ELEVATIONS:**

TOP  $\ell$  ROAD= 100.00  
TOP HW= 99.47  
TOP PIPE= 97.97  
INV STREAM= 95.14  
INV PIPE= 94.14

DESCRIPTION

NORTHAMPTON CO  
SR 1320  
JULIAN MORGAN RD

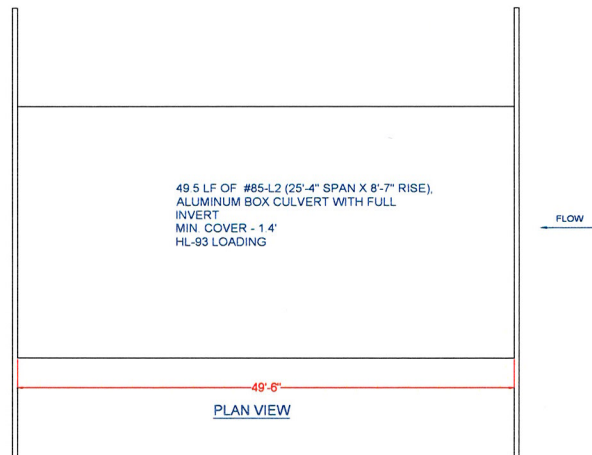
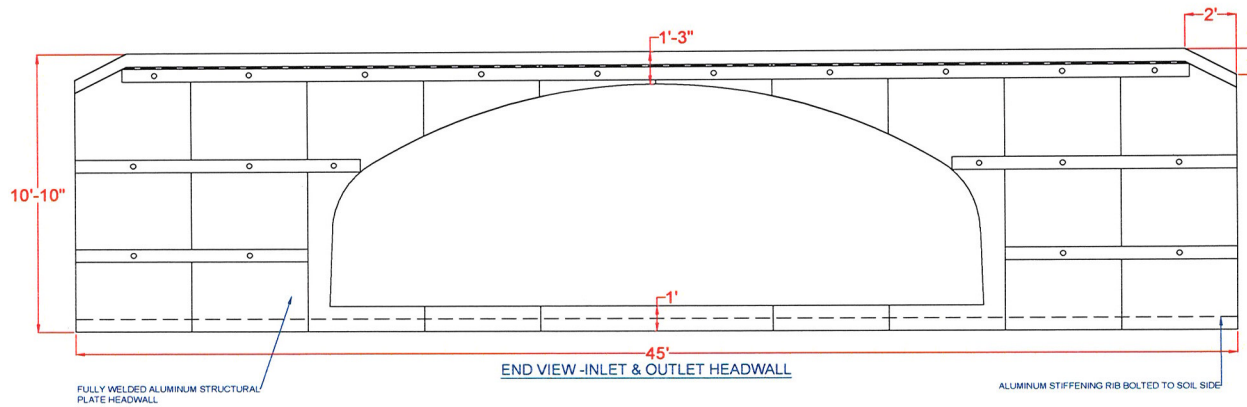
FIRM:

PROJECT:

DATE:  
OCT 31, 2016

SHEET

NOT TO SCALE



PROPOSED ELEVATIONS:

EDGE OF PAVEMENT ~ OUTLET - 100.00  
 EDGE OF PAVEMENT ~ INLET - 99.50  
 TOP OF WALL ~ INLET - 99.33  
 TOP OF WALL ~ OUTLET - 99.33  
 TOP OF STRUCTURE - 98.08  
 INVERT OF STREAM - 90.50  
 INVERT OF CULVERT - 89.50

DESCRIPTION

NCDOT  
 HERTFORD CO SR 1424  
 GODWIN TOWN RD

FIRM:

PROJECT:

DATE:  
 OCT 27, 2016

SHEET

NOT TO SCALE