

**AMENDMENT NO. 1
TO
D036169/PIN 1760.63
COUNTY ROUTE 43 SHORE AIRPORT ROAD DRAINAGE IMPROVEMENTS
TOWN OF TICONDEROGA, ESSEX COUNTY NY**

**IN THE LETTING OF
APRIL 4, 2019 @ 2:00 PM AT THE OFFICES OF THE ESSEX COUNTY PURCHASING AGENT
AT 7551 COURT STREET, ELIZABETHTOWN NY**

NOTE: This amendment shall be attached to and become a part of the Proposal for Contract **D036169/PIN 1760.63 COUNTY ROUTE 43 SHORE AIRPORT ROAD DRAINAGE IMPROVEMENTS** as outlined below:

1. **QUESTION:** Can you confirm that Pipe 'I' is a 36" proposed inside diameter or a 42" inside diameter? The item number in the Description chart would suggest it is supposed to be 42" but the description in the top chart on Sheet 8 says 36 inch. Note that the max OD on profile wall pipe (item 602.2742 is around 47.7 inches) which does not leave much room for the liner to fit inside the host. One small dent would make it difficult getting it thru there. There is 40" profile wall available which has an OD max of 45.1 inches or we can use NYSDOT item 602.2642 which is solid wall HDPE and should fit without any issues (it has an OD of 42 inches and an ID of ~ 39.42". Snap-Tite is an approved DOT item that could work and match this item number. This product is also utilized State-wide on the OGS contract. No resins are used for HDPE lining and the utilization of the Snap-Tite product should certainly speed up the project completion.

RESPONSE: The proposed inside diameter is expected to be 42", the 36" diameter on sheet 8 is incorrect and should be revised as noted.

After reviewing the hydraulics, use of a culvert that meets or exceeds a 40-inch internal diameter is acceptable and should continue to be bid under item 602.2742. It is recommended that the contractor verify that they are using the correct ring stiffness class (RSC) for the specific burial depth for each culvert. By choosing the correct RSC the pipe wall thickness and therefore outside dimension will be minimized.

Use of items 602.26XX will be considered after bidding under NYSDOT Standard Specifications Section 104-10 for Value Engineering Change Proposal. Any proposal shall be for material substitutions only and shall not exceed the bid prices for items 602.27XX.

2. **QUESTION:** Similarly, on culverts 'C' and 'G', there are notes that suggest minimum clearances of 68" and 67" respectively. The max OD on 60" profile wall (602.2760) is 67.1 inches which leave little to no room for it to fit in there. It would be really close. NYSDOT item 602.2663 would have an ID of 59.1 inches and an OD of 63" which should fit and provide the same flow.

RESPONSE: During the field survey of the culverts, internal measurements were taken for culverts 'C' and 'G' at varying locations. The minimum clearances noted in the plans refers to the

absolute minimum diameter measured. It is recommended that the contractor look at other items on the NYSDOT approved list. For instance, Spirolite Class 63 would be sufficient for the burial depth for Culvert 'C' and Class 100 be sufficient for the burial depth for Culvert 'G'. These would have an outside dimension of 64.8" and 65.1", respectively. Contractor is to verify all field dimensions prior to installation.

Use of items 602.26XX will be considered after bidding under NYSDOT Standard Specifications Section 104-10 for Value Engineering Change Proposal. Any proposal shall be for material substitutions only and shall not exceed the bid prices for items 602.27XX.

3. **QUESTION:** Are there video files available of any camera inspections or condition assessments of the pipes?

RESPONSE: There are no camera inspections or condition assessments of the pipes. Included with this addendum are photos of the culverts that are to be relined or abandoned. These photos are provided for informal reference only and in no way relieve the contractor the obligation under Section 100 of the NYSDOT Standard Specification's to visit the project site prior to bidding.

4. **QUESTION:** The use of 602.26XX items would also allow the pipe to sit lower on the host pipe invert. It seems important to the County and GPI to achieve this based on their notes on Sheet No. 8 on Note #1 and the note in the detail on the very left of the same page where they specify spacers to be used to push the invert lower. For example, 42" solid wall would have a 1.29 inch wall thickness versus the profile wall with a ~3 inch wall thickness. It will help keep the hydraulic grade line down and will help with the velocities within the pipe.

RESPONSE: Comment Noted. Consistent with previous responses use of items 602.26XX will be considered after bidding under NYSDOT Standard Specifications Section 104-10 for Value Engineering Change Proposal. Any proposal shall be for material substitutions only and shall not exceed the bid prices for items 602.27XX.

5. **QUESTION:** For culverts X, A, B, D, F, and H, if flows and structural can be met, would GPI and the County allow the use of 602.26XX solutions in place of the Cured In Place?

The solid wall pipe is stated as having a 100 year service life whereas the CIPP is often stated as a 50 year service life and no grouting of voids is performed with CIPP. Therefore, if there's any backfill envelope that has been washed away, the CIPP will not have any stabilization behind it. Pre-grouting or cementing of inverts when performing a CIPP is usually only done in man-entry pipes. At a glance at the hydraulics in HY8, it appears that the flows would work and we would meet/exceed the structural capacities. For example, on Pipe 'A' we would propose 602.2632 which would be 32" pipe. Inlet modifications can also be accommodated with the solid wall pipe which would improve the entrance loss condition. For culverts X and B, we would propose either 602.2618, 602.2620, or 602.2622 options. All of them would meet flows.

RESPONSE: For bidding of the project, the contractor must continue to use the items currently in the project manual. Use of 602.26XX as a replacement for CIPP pipe will be considered after bid opening only as a Value Engineering Change Proposal. Any proposal shall be for material substitutions only and shall not exceed the bid prices for the respective original item(s).

THE BID OPENING FOR APRIL 4TH AT 2:00 PM REMAINS IN EFFECT.

The All Bidders **MUST** complete acknowledging receipt of this amendment and attached to their respective bids. If the Bidder fails to complete the 'Amendment Acknowledgement' below, the bid could be declared informal thereby delaying award of the contract.

PLEASE BE GOVERNED ACCORDINGLY WHEN SUBMITTING BIDS.

Company Name: _____

Address: _____

Date: _____

Contact Name: _____

Contact Signature: _____

****BIDDERS MUST SIGN AND RETURN THIS PAGE OF THE ADDENDUM WITH
THEIR BID. ACKNOWLEDGEMENT OF THIS ADDENDUM INDICATES ADDENDUM
NO. 1 HAS BEEN RECEIVED AND MADE PART OF THE BID DOCUMENTS. ****

END ADDENDUM NO. 1



80 Wolf Road, Suite 300
Albany, NY 12205
518-453-9431

SITE PHOTOGRAPHS

CLIENT NAME:

Essex County

SITE LOCATION:

Town of Ticonderoga

PROJECT NAME:

Rehabilitation of County Route 43 (Shore Airport Road)

PROJECT NO.:

2017057.00

Photo No.: 1

Shore Airport Road,
Town of Ticonderoga

Description:

Culvert 'A' Inlet

**Photo No.: 2**

Shore Airport Road,
Town of Ticonderoga

Description:

Culvert 'A' Outlet





80 Wolf Road, Suite 300
Albany, NY 12205
518-453-9431

SITE PHOTOGRAPHS

CLIENT NAME: Essex County	SITE LOCATION: Town of Ticonderoga	PROJECT NAME: Rehabilitation of County Route 43 (Shore Airport Road)	PROJECT NO.: 2017057.00
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Photo No.: 3

Shore Airport Road,
Town of Ticonderoga

Description:

Culvert 'A' Interior





80 Wolf Road, Suite 300
Albany, NY 12205
518-453-9431

SITE PHOTOGRAPHS

CLIENT NAME: Essex County	SITE LOCATION: Town of Ticonderoga	PROJECT NAME: Rehabilitation of County Route 43 (Shore Airport Road)	PROJECT NO.: 2017057.00
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Photo No.: 4

Shore Airport Road,
Town of Ticonderoga

Description:

Culvert 'A' Inlet

**Photo No.: 5**

Shore Airport Road,
Town of Ticonderoga

Description:

Culvert 'A' Outlet





80 Wolf Road, Suite 300
Albany, NY 12205
518-453-9431

SITE PHOTOGRAPHS

CLIENT NAME: Essex County	SITE LOCATION: Town of Ticonderoga	PROJECT NAME: Rehabilitation of County Route 43 (Shore Airport Road)	PROJECT NO.: 2017057.00
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Photo No.: 6

Shore Airport Road,
Town of Ticonderoga

Description:

Culvert 'B' Interior





80 Wolf Road, Suite 300
Albany, NY 12205
518-453-9431

SITE PHOTOGRAPHS

CLIENT NAME: Essex County	SITE LOCATION: Town of Ticonderoga	PROJECT NAME: Rehabilitation of County Route 43 (Shore Airport Road)	PROJECT NO.: 2017057.00
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Photo No.: 7

Shore Airport Road,
Town of Ticonderoga

Description:

Culvert 'C' Inlet

**Photo No.: 8**

Shore Airport Road,
Town of Ticonderoga

Description:

Culvert 'C' Outlet





80 Wolf Road, Suite 300
Albany, NY 12205
518-453-9431

SITE PHOTOGRAPHS

CLIENT NAME:

Essex County

SITE LOCATION:

Town of Ticonderoga

PROJECT NAME:

Rehabilitation of County Route 43 (Shore Airport Road)

PROJECT NO.:

2017057.00

Photo No.: 9

Shore Airport Road,
Town of Ticonderoga

Description:

Culvert 'C' Interior





80 Wolf Road, Suite 300
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518-453-9431

SITE PHOTOGRAPHS

CLIENT NAME:

Essex County

SITE LOCATION:

Town of Ticonderoga

PROJECT NAME:

Rehabilitation of County Route 43 (Shore Airport Road)

PROJECT No.:

2017057.00

Photo No.: 10

Shore Airport Road,
Town of Ticonderoga

Description:

Culvert 'D' Inlet

**Photo No.: 11**

Shore Airport Road,
Town of Ticonderoga

Description:

Culvert 'D' Outlet





80 Wolf Road, Suite 300
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SITE PHOTOGRAPHS

CLIENT NAME: Essex County	SITE LOCATION: Town of Ticonderoga	PROJECT NAME: Rehabilitation of County Route 43 (Shore Airport Road)	PROJECT NO.: 2017057.00
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Photo No.: 12

Shore Airport Road,
Town of Ticonderoga

Description:

Culvert 'D' Interior





80 Wolf Road, Suite 300
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SITE PHOTOGRAPHS

CLIENT NAME: Essex County	SITE LOCATION: Town of Ticonderoga	PROJECT NAME: Rehabilitation of County Route 43 (Shore Airport Road)	PROJECT No.: 2017057.00
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Photo No.: 13

Shore Airport Road,
Town of Ticonderoga

Description:

Culvert 'E' Inlet

**Photo No.: 14**

Shore Airport Road,
Town of Ticonderoga

Description:

Culvert 'E' Outlet





80 Wolf Road, Suite 300
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SITE PHOTOGRAPHS

CLIENT NAME: Essex County	SITE LOCATION: Town of Ticonderoga	PROJECT NAME: Rehabilitation of County Route 43 (Shore Airport Road)	PROJECT NO.: 2017057.00
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Photo No.: 15

Shore Airport Road,
Town of Ticonderoga

Description:

Culvert 'F' Inlet

**Photo No.: 16**

Shore Airport Road,
Town of Ticonderoga

Description:

Culvert 'F' Outlet





80 Wolf Road, Suite 300
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SITE PHOTOGRAPHS

CLIENT NAME: Essex County	SITE LOCATION: Town of Ticonderoga	PROJECT NAME: Rehabilitation of County Route 43 (Shore Airport Road)	PROJECT NO.: 2017057.00
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Photo No.: 17

Shore Airport Road,
Town of Ticonderoga

Description:

Culvert 'F' Interior





80 Wolf Road, Suite 300
Albany, NY 12205
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SITE PHOTOGRAPHS

CLIENT NAME: Essex County	SITE LOCATION: Town of Ticonderoga	PROJECT NAME: Rehabilitation of County Route 43 (Shore Airport Road)	PROJECT NO.: 2017057.00
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Photo No.: 18

Shore Airport Road,
Town of Ticonderoga

Description:

Culvert 'G' Inlet



Photo No.: 19

Shore Airport Road,
Town of Ticonderoga

Description:

Culvert 'G' Outlet





80 Wolf Road, Suite 300
Albany, NY 12205
518-453-9431

SITE PHOTOGRAPHS

CLIENT NAME: Essex County	SITE LOCATION: Town of Ticonderoga	PROJECT NAME: Rehabilitation of County Route 43 (Shore Airport Road)	PROJECT NO.: 2017057.00
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Photo No.: 20

Shore Airport Road,
Town of Ticonderoga

Description:

Culvert 'G' Interior





80 Wolf Road, Suite 300
Albany, NY 12205
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SITE PHOTOGRAPHS

CLIENT NAME: Essex County	SITE LOCATION: Town of Ticonderoga	PROJECT NAME: Rehabilitation of County Route 43 (Shore Airport Road)	PROJECT No.: 2017057.00
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Photo No.: 21

Shore Airport Road,
Town of Ticonderoga

Description:

Culvert 'H' Inlet

**Photo No.: 22**

Shore Airport Road,
Town of Ticonderoga

Description:

Culvert 'H' Outlet





80 Wolf Road, Suite 300
Albany, NY 12205
518-453-9431

SITE PHOTOGRAPHS

CLIENT NAME: Essex County	SITE LOCATION: Town of Ticonderoga	PROJECT NAME: Rehabilitation of County Route 43 (Shore Airport Road)	PROJECT NO.: 2017057.00
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Photo No.: 23

Shore Airport Road,
Town of Ticonderoga

Description:

Culvert 'H' Interior
Note: The pipe insulation shown has been removed.





80 Wolf Road, Suite 300
Albany, NY 12205
518-453-9431

SITE PHOTOGRAPHS

CLIENT NAME:

Essex County

SITE LOCATION:

Town of Ticonderoga

PROJECT NAME:

Rehabilitation of County Route 43 (Shore Airport Road)

PROJECT NO.:

2017057.00

Photo No.: 24

Shore Airport Road,
Town of Ticonderoga

Description:

Culvert 'I' Inlet

**Photo No.: 25**

Shore Airport Road,
Town of Ticonderoga

Description:

Culvert 'I' Outlet





80 Wolf Road, Suite 300
Albany, NY 12205
518-453-9431

SITE PHOTOGRAPHS

CLIENT NAME: Essex County	SITE LOCATION: Town of Ticonderoga	PROJECT NAME: Rehabilitation of County Route 43 (Shore Airport Road)	PROJECT NO.: 2017057.00
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Photo No.: 26

Shore Airport Road,
Town of Ticonderoga

Description:

Culvert 'H' Interior





80 Wolf Road, Suite 300
Albany, NY 12205
518-453-9431

SITE PHOTOGRAPHS

CLIENT NAME:

Essex County

SITE LOCATION:

Town of Ticonderoga

PROJECT NAME:

Rehabilitation of County Route 43 (Shore Airport Road)

PROJECT NO.:

2017057.00

Photo No.: 27

Shore Airport Road,
Town of Ticonderoga

Description:

Culvert 'J' Inlet

**Photo No.: 28**

Shore Airport Road,
Town of Ticonderoga

Description:

Culvert 'J' Outlet





80 Wolf Road, Suite 300
Albany, NY 12205
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SITE PHOTOGRAPHS

CLIENT NAME: Essex County	SITE LOCATION: Town of Ticonderoga	PROJECT NAME: Rehabilitation of County Route 43 (Shore Airport Road)	PROJECT NO.: 2017057.00
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Photo No.: 29

Shore Airport Road,
Town of Ticonderoga

Description:

Culvert 'J' Interior





80 Wolf Road, Suite 300
Albany, NY 12205
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SITE PHOTOGRAPHS

CLIENT NAME:

Essex County

SITE LOCATION:

Town of Ticonderoga

PROJECT NAME:

Rehabilitation of County Route 43 (Shore Airport Road)

PROJECT NO.:

2017057.00

Photo No.: 30

Shore Airport Road,
Town of Ticonderoga

Description:

Culvert 'O' Inlet

**Photo No.: 31**

Shore Airport Road,
Town of Ticonderoga

Description:

Culvert 'O' Outlet





80 Wolf Road, Suite 300
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SITE PHOTOGRAPHS

CLIENT NAME: Essex County	SITE LOCATION: Town of Ticonderoga	PROJECT NAME: Rehabilitation of County Route 43 (Shore Airport Road)	PROJECT NO.: 2017057.00
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Photo No.: 32

Shore Airport Road,
Town of Ticonderoga

Description:

Culvert 'O' Interior





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SITE PHOTOGRAPHS

CLIENT NAME: Essex County	SITE LOCATION: Town of Ticonderoga	PROJECT NAME: Rehabilitation of County Route 43 (Shore Airport Road)	PROJECT No.: 2017057.00
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Photo No.: 33

Shore Airport Road,
Town of Ticonderoga

Description:

Culvert 'X' Inlet

**Photo No.: 34**

Shore Airport Road,
Town of Ticonderoga

Description:

Culvert 'X' Outlet

