



THE STATE OF NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION



Victoria F. Sheehan Commissioner

William Cass, P.E. Assistant Commissioner

His Excellency, Governor Christopher T. Sununu and the Honorable Council State House Concord, New Hampshire 03301

Bureau of Construction November 13, 2020

REQUESTED ACTION

1. Authorize the Department of Transportation to enter into a contract with Renaud Bros., Inc. (Vendor 275236) of Vernon, VT, on the basis of a low bid of \$993,755.00, for the Cornish-Windsor covered bridge scour mitigation, from the date of Governor and Council approval through October 29, 2021, unless extended by the Department in accordance with the Standard Specifications. 100% Federal Funds.

Funding is available in State Fiscal Year 2021, and is contingent upon the availability and continued appropriation of funds in Fiscal Year 2022 as follows, with the ability to adjust encumbrances through the Budget Office between State Fiscal Years if needed and justified:

Table with 3 columns: Funding description, FY 2021, FY 2022. Rows include 04-96-96-963515-3054 Consolidated Federal Aid and 400-500870 Highway Contract Payments.

2. Further authorize that a contingency in the amount of \$99,375.50 be approved for payment of latent conditions, which may appear during the construction of the project. The contingency requested is 10% of the contract amount.

Table with 3 columns: Funding description, FY 2021, FY 2022. Rows include 04-96-96-963515-3054 Consolidated Federal Aid and 400-500870 Highway Contract Payments.

EXPLANATION

This project is part of the State's Ten Year Transportation Improvement Plan, under the Bridge Tier 3-4 Maintenance & Preservation Program. The project involves installing an armoring layer (scour countermeasures) designed to resist erosion around the abutments and pier of Br. No. 064/108, Cornish Toll Bridge Road over the Connecticut River in the Towns of Cornish, NH and Windsor, VT.

The existing bridge, built in 1866 and preserved in 1989, is a two-span covered bridge with a timber deck and is approximately 449 feet long. Cornish Toll Bridge Road over the Connecticut River (Br. No. 064/108) is #157 on the 2018 Bridge Rehabilitation and Replacement priority list. This bridge's current condition

rating is Deck: 5, Superstructure: 6, and Substructure: 2. Performing bridge preservation activities on the bridge will prevent scour at this historic structure and extend the useful life of the bridge.

The proposed contingency amount is 10% of the contract amount. This work includes installation of scour countermeasures along with monitoring of discharged water into the Connecticut River. The extent of this work has been estimated, but the full extent of the work will not be fully known until the cofferdams are installed at the bridge. These factors increase the risk of overruns.

Although the bid costs exceeded the Department's estimate by 40.61% the low bid of 2 bids received is felt to be reasonable for the work involved. Seven items of significance contributed to 100% of the overage (Rip Rap (3), cofferdams (2), temp. signals, and mobilization). Re-advertising this project would result, in our opinion, in higher prices and prevent the completion of the work in a timely manner. The Department considers it to be in the best interest of the State to accept this bid to accomplish these needed repairs.

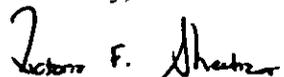
The Contractor has been prequalified by this Department. The Contract has been approved by the Attorney General as to form and execution, and the Department has certified that the necessary funds are available and the bid reasonably conforms to the engineer's estimate in accordance with State procedure. Copies of the fully executed contract are on file at the Secretary of State's Office and the Department of Administrative Service's Office, and subsequent to Governor and Council approval will be on file at the Department of Transportation.

This project funding is: \$1,600,000.00 National Historic Covered Bridge Preservation Grant; \$81,589.73 State of Vermont, Remainder = 80% Federal (Bridge-T 3-4 Maintenance & Preservation), with anticipated utilization of Turnpike Toll Credits for the State's 20% match, effectively using 100% Federal Funds for NH's contribution.

A copy of the Tabulation of Bids received for this project is attached along with the Contract Supplemental Sheet and a map indicating the location of the project.

Your approval of this resolution is respectfully requested.

Sincerely,



Victoria F. Sheehan
Commissioner

VFS/pcj

Department Estimate: \$706,766.00
Contract Amount: \$993,755.00
Over Estimate: \$286,989.00
Attachments



ABC Bid Data

CORNISH, NH - WINDSOR, VT

25067

A003(035)

PROJECT: CORNISH, NH - WINDSOR, VT
STATE PROJECT NUMBER: 25067
FED. PROJECT NUMBER: A003(035)
DATE BIDS OPEN: October 08, 2020, 2:00
SCOPE OF WORK: Cornish Windsor Covered Bridge Scour Mitigation
COMPLETION DATE: October 29, 2021
LOCATION: Sullivan

Awarded To: RENAUD BROS.
CONSTRUCTION, INC
283 FORT BRIDGEMAN RD
#2
VERNON, VT 05354
Amount: \$993,755.00

Certified by: PETER.E.STAMNAS
Director of Project Development

Award Date:

Summary of Bidders

Contractor	Bid Amount	Rank
RENAUD BROS CONSTRUCTION, INC 283 FORT BRIDGEMAN RD #2, VERNON VT 05354	\$993,755.00	A
CCS CONSTRUCTORS INC 138 MUNSON AVENUE, PO BOX 1030, MORRISVILLE VT 05661	\$1,131,115.00	B



ABC Bid Data

CORNISH, NH - WINDSOR, VT

25067

A003(035)

Item No.	Description	Unit	Quantity	PS&E		RENAUD BROS. CONSTRUCTION, INC 283 FORT BRIDGEMAN RD #2 VERNON, VT 05354		CCS CONSTRUCTORS INC 138 MUNSON AVENUE MORRISVILLE, VT 05661	
				Unit Price	Total	Unit Price	Total	Unit Price	Total

Items

207.3	UNCLASSIFIED CHANNEL EXCAVATION	CY	200.00	\$50.00	\$10,000.00	\$75.00	\$15,000.00	\$75.00	\$15,000.00
304.6	CRUSHED STONE (VERY COARSE)	CY	45.00	\$70.00	\$3,150.00	\$100.00	\$4,500.00	\$125.00	\$5,625.00
600.02	ACCESS FOR BRIDGE CONSTRUCTION	U	1.00	\$200,000.00	\$200,000.00	\$200,000.00	\$200,000.00	\$175,000.00	\$175,000.00
603.201	COFFERDAMS	U	1.00	\$65,000.00	\$65,000.00	\$125,000.00	\$125,000.00	\$275,000.00	\$275,000.00
603.202	COFFERDAMS	U	1.00	\$65,000.00	\$65,000.00	\$125,000.00	\$125,000.00	\$150,000.00	\$150,000.00
683.0505	PARTIALLY GROUTED RIP RAP, 12 INCH	CY	285.00	\$225.00	\$64,125.00	\$300.00	\$85,500.00	\$200.00	\$57,000.00
683.5	RIPRAP, CLASS V	CY	290.00	\$60.00	\$17,400.00	\$175.00	\$50,750.00	\$175.00	\$50,750.00
683.9	RIPRAP, CLASS IX	CY	200.00	\$75.00	\$15,000.00	\$175.00	\$35,000.00	\$150.00	\$30,000.00
606.0001	STEEL BEAM FOR BEAM GUARDRAIL, INCLUDING HARDWARE	LF	60.00	\$12.50	\$625.00	\$25.00	\$1,250.00	\$50.00	\$2,500.00
606.014	6"X8" WOOD POST REPLACEMENTS FOR BEAM GUARDRAIL POSTS	EA	12.00	\$100.00	\$1,200.00	\$50.00	\$600.00	\$350.00	\$4,200.00
606.0142	6"X8" WOOD POST ASSEMBLIES FOR BEAM GUARDRAIL POSTS	EA	12.00	\$25.00	\$300.00	\$50.00	\$600.00	\$350.00	\$4,200.00
606.417	PORTABLE CONCRETE BARRIER FOR TRAFFIC CONTROL	LF	130.00	\$42.50	\$5,525.00	\$50.00	\$6,500.00	\$45.00	\$5,850.00
606.81	RESETTING OR SETTING GUARDRAIL	LF	130.00	\$12.00	\$1,560.00	\$20.00	\$2,600.00	\$35.00	\$4,550.00
606.9522	TEMP. IMPACT ATTENUATION DEVICE (NON-REDIRECTIVE) TEST LEVEL 2	U	2.00	\$2,275.00	\$4,550.00	\$2,500.00	\$5,000.00	\$5,000.00	\$10,000.00
616.171	PORTABLE TRAFFIC SIGNALS (PTS) SYSTEM	U	1.00	\$7,920.00	\$7,920.00	\$65,000.00	\$65,000.00	\$20,000.00	\$20,000.00
618.61	UNIFORMED OFFICERS WITH VEHICLE	\$	3,000.00	\$1.00	\$3,000.00	\$1.00	\$3,000.00	\$1.00	\$3,000.00
618.7	FLAGGERS	HR	240.00	\$45.00	\$10,800.00	\$30.00	\$7,200.00	\$35.00	\$8,400.00
618.1	MAINTENANCE OF TRAFFIC	U	1.00	\$50,000.00	\$50,000.00	\$20,000.00	\$20,000.00	\$20,000.00	\$20,000.00
618.26	PORTABLE CHANGEABLE MESSAGE SIGN	U	3.00	\$2,000.00	\$6,000.00	\$1,000.00	\$3,000.00	\$5,000.00	\$15,000.00
621.2	RETROREFLECTIVE BEAM GUARDRAIL DELINEATOR	EA	2.00	\$5.50	\$11.00	\$100.00	\$200.00	\$200.00	\$400.00
632.1104	PREFORMED RETROREFLECTIVE TAPE, TYPE I (REMOVABLE) 4" LINE	LF	850.00	\$4.00	\$3,800.00	\$3.00	\$2,850.00	\$2.00	\$1,900.00
632.1118	PREFORMED RETROREFLECTIVE TAPE, TYPE I (REMOVABLE) 18" LINE	LF	72.00	\$10.00	\$720.00	\$10.00	\$720.00	\$15.00	\$1,080.00
632.1304	BLACKOUT PAVEMENT MARKING TAPE, TYPE I (REMOVABLE), 4" LINE	LF	820.00	\$4.00	\$3,280.00	\$2.00	\$1,640.00	\$3.00	\$2,460.00



ABC Bid Data

CORNISH, NH - WINDSOR, VT

25067

A003(035)

Item No.	Description	Unit	Quantity	PA&E		RENAUD BROS. CONSTRUCTION, INC 283 FORT BRIDGEMAN RD #7 VERNON, VT 05354		CCS CONSTRUCTORS INC 138 MUNSON AVENUE MORRISVILLE, VT 05661	
				Unit Price	Total	Unit Price	Total	Unit Price	Total
632.1306	BLACKOUT PAVEMENT MARKING TAPE, TYPE I (REMOVABLE), 6" LINE	LF	30.00	\$5.00	\$150.00	\$4.00	\$120.00	\$5.00	\$150.00
645.0001	TURBIDITY BARRIER	LF	665.00	\$40.00	\$26,600.00	\$25.00	\$16,625.00	\$70.00	\$46,550.00
645.3	EROSION STONE	TON	150.00	\$25.00	\$3,750.00	\$50.00	\$7,500.00	\$100.00	\$15,000.00
645.512	COMPOST SOCK FOR PERIMETER BERM	LF	500.00	\$5.25	\$2,625.00	\$10.00	\$5,000.00	\$5.00	\$2,500.00
645.7	STORM WATER POLLUTION PREVENTION PLAN	U	1.00	\$8,000.00	\$8,000.00	\$10,000.00	\$10,000.00	\$5,000.00	\$5,000.00
645.71	MONITORING SWPPP AND EROSION AND SEDIMENT CONTROLS	HR	240.00	\$150.00	\$36,000.00	\$40.00	\$9,600.00	\$25.00	\$6,000.00
650.2	LANDSCAPING	U	1.00	\$12,000.00	\$12,000.00	\$25,000.00	\$25,000.00	\$8,000.00	\$8,000.00
670.104	TEMPORARY PORTABLE LIGHTING	U	2.00	\$1,837.50	\$3,675.00	\$1,000.00	\$2,000.00	\$3,000.00	\$6,000.00
692.	MOBILIZATION	U	1.00	\$70,000.00	\$70,000.00	\$150,000.00	\$150,000.00	\$175,000.00	\$175,000.00
699.	MISCELLANEOUS TEMPORARY EROSION AND SEDIMENT CONTROL	\$	5,000.00	\$1.00	\$5,000.00	\$1.00	\$5,000.00	\$1.00	\$5,000.00
1010.16	FUEL ADJUSTMENT	\$	2,000.00	\$1.00	\$2,000.00	\$1.00	\$2,000.00	\$1.00	\$2,000.00
Totals:					\$706,768.00		\$993,765.00		\$1,131,115.00
Alt. Totals:									
Totals:					\$706,768.00		\$993,765.00		\$1,131,115.00



PS&E Comparison

CORNISH, NH - WINDSOR, VT

25057

A003(035)

Item No.	Description	Unit	Quantity	A-Bidder		PS&E		A-PS&E Difference
				Unit Price	Total	Unit Price	Total	
Items								
207.3	UNCLASSIFIED CHANNEL EXCAVATION	CY	200.00	\$75.00	\$15,000.00	\$50.00	\$10,000.00	\$5,000.00
304.6	CRUSHED STONE (VERY COARSE)	CY	45.00	\$100.00	\$4,500.00	\$70.00	\$3,150.00	\$1,350.00
500.02	ACCESS FOR BRIDGE CONSTRUCTION	U	1.00	\$200,000.00	\$200,000.00	\$200,000.00	\$200,000.00	\$0.00
503.201	COFFERDAMS	U	1.00	\$125,000.00	\$125,000.00	\$65,000.00	\$65,000.00	\$60,000.00
503.202	COFFERDAMS	U	1.00	\$125,000.00	\$125,000.00	\$65,000.00	\$65,000.00	\$60,000.00
583.0505	PARTIALLY GROUTED RIP RAP, 12 INCH	CY	285.00	\$300.00	\$85,500.00	\$225.00	\$64,125.00	\$21,375.00
583.5	RIPRAP, CLASS V	CY	290.00	\$175.00	\$50,750.00	\$60.00	\$17,400.00	\$33,350.00
583.9	RIPRAP, CLASS IX	CY	200.00	\$175.00	\$35,000.00	\$75.00	\$15,000.00	\$20,000.00
606.0001	STEEL BEAM FOR BEAM GUARDRAIL, INCLUDING HARDWARE	LF	50.00	\$25.00	\$1,250.00	\$12.50	\$625.00	\$625.00
606.014	6"X8" WOOD POST REPLACEMENTS FOR BEAM GUARDRAIL POSTS	EA	12.00	\$50.00	\$600.00	\$100.00	\$1,200.00	(\$600.00)
606.0142	6"X8" WOOD POST ASSEMBLIES FOR BEAM GUARDRAIL POSTS	EA	12.00	\$50.00	\$600.00	\$25.00	\$300.00	\$300.00
606.417	PORTABLE CONCRETE BARRIER FOR TRAFFIC CONTROL	LF	130.00	\$50.00	\$6,500.00	\$42.50	\$5,525.00	\$975.00
606.91	RESETTING OR SETTING GUARDRAIL	LF	130.00	\$20.00	\$2,600.00	\$12.00	\$1,560.00	\$1,040.00
606.9522	TEMP. IMPACT ATTENUATION DEVICE (NON-REDIRECTIVE) TEST LEVEL 2	U	2.00	\$2,500.00	\$5,000.00	\$2,275.00	\$4,550.00	\$450.00



PS&E Comparison

CORNISH, NH - WINDSOR, VT

25067

A003(035)

Item No.	Description	Unit	Quantity	A-Bidder		PS&E		A-PS&E Difference
				Unit Price	Total	Unit Price	Total	
616.171	PORTABLE TRAFFIC SIGNALS (PTS) SYSTEM	U	1.00	\$65,000.00	\$65,000.00	\$7,920.00	\$7,920.00	\$57,080.00
618.61	UNIFORMED OFFICERS WITH VEHICLE	\$	3,000.00	\$1.00	\$3,000.00	\$1.00	\$3,000.00	\$0.00
618.7	FLAGGERS	HR	240.00	\$30.00	\$7,200.00	\$45.00	\$10,800.00	(\$3,600.00)
619.1	MAINTENANCE OF TRAFFIC	U	1.00	\$20,000.00	\$20,000.00	\$50,000.00	\$50,000.00	(\$30,000.00)
619.25	PORTABLE CHANGEABLE MESSAGE SIGN	U	3.00	\$1,000.00	\$3,000.00	\$2,000.00	\$6,000.00	(\$3,000.00)
621.2	RETROREFLECTIVE BEAM GUARDRAIL DELINEATOR	EA	2.00	\$100.00	\$200.00	\$5.50	\$11.00	\$189.00
632.1104	PREFORMED RETROREFLECTIVE TAPE, TYPE (REMOVABLE) 4" LINE	LF	950.00	\$3.00	\$2,850.00	\$4.00	\$3,800.00	(\$950.00)
632.1118	PREFORMED RETROREFLECTIVE TAPE, TYPE (REMOVABLE) 18" LINE	LF	72.00	\$10.00	\$720.00	\$10.00	\$720.00	\$0.00
632.1304	BLACKOUT PAVEMENT MARKING TAPE, TYPE (REMOVABLE), 4" LINE	LF	820.00	\$2.00	\$1,640.00	\$4.00	\$3,280.00	(\$1,640.00)
632.1306	BLACKOUT PAVEMENT MARKING TAPE, TYPE (REMOVABLE), 6" LINE	LF	30.00	\$4.00	\$120.00	\$5.00	\$150.00	(\$30.00)
645.0001	TURBIDITY BARRIER	LF	665.00	\$25.00	\$16,625.00	\$40.00	\$26,600.00	(\$9,975.00)
645.3	EROSION STONE	TON	150.00	\$50.00	\$7,500.00	\$25.00	\$3,750.00	\$3,750.00
645.512	COMPOST SOCK FOR PERIMETER BERM	LF	500.00	\$10.00	\$5,000.00	\$5.25	\$2,625.00	\$2,375.00
645.7	STORM WATER POLLUTION PREVENTION PLAN	U	1.00	\$10,000.00	\$10,000.00	\$6,000.00	\$6,000.00	\$4,000.00
645.71	MONITORING SWPPP AND EROSION AND SEDIMENT CONTROLS	HR	240.00	\$40.00	\$9,600.00	\$150.00	\$36,000.00	(\$26,400.00)
650.2	LANDSCAPING	U	1.00	\$25,000.00	\$25,000.00	\$12,000.00	\$12,000.00	\$13,000.00



PS&E Comparison

CORNISH, NH - WINDSOR, VT

25067

A003(035)

Item No.	Description	Unit	Quantity	A-Bidder		PS&E		A-PS&E Difference
				Unit Price	Total	Unit Price	Total	
670.104	TEMPORARY PORTABLE LIGHTING	U	2.00	\$1,000.00	\$2,000.00	\$1,837.50	\$3,675.00	(\$1,675.00)
692.	MOBILIZATION	U	1.00	\$150,000.00	\$150,000.00	\$70,000.00	\$70,000.00	\$80,000.00
699.	MISCELLANEOUS TEMPORARY EROSION AND SEDIMENT CONTROL	\$	5,000.00	\$1.00	\$5,000.00	\$1.00	\$5,000.00	\$0.00
1010.15	FUEL ADJUSTMENT	\$	2,000.00	\$1.00	\$2,000.00	\$1.00	\$2,000.00	\$0.00
Total:					\$993,755.00		\$706,766.00	\$286,989.00

September 15, 2020

SUPPLEMENTAL PROJECT INFORMATION SHEET

DESCRIPTION: The project involves installing an armoring layer (scour countermeasures) designed to resist erosion around the abutments and pier of Br. No. 064/108, Cornish Toll Bridge Road over the Connecticut River in the Towns of Cornish, NH and Windsor, VT. Partially grouted riprap will be installed at the abutments and Class B Stone will be placed at the pier. The bridge is coded scour critical and considered vulnerable to erosion/scour during severe flood events.

FEDERAL FUNDING: \$1,600,000 National Historic Covered Bridge Preservation Grant; Remainder = 80% (Bridge-T 3-4 Maintenance & Preservation) with anticipated utilization of Turnpike Toll Credits for the State's 20% match

CONTINGENCY: The contingency amount is proposed to be 10%. This work includes installation of scour countermeasures along with monitoring of discharged water into the Connecticut River. The extent of this work has been estimated, but the full extent of the work will not be fully known until the cofferdams are installed at the bridge. These factors increase the risk of overruns.

PROJECT INITIATED: Bridge-T 3-4 Maintenance & Preservation

PROJECT EXPLANATION: The existing bridge, built in 1866 and preserved in 1989, is a two-span covered bridge with a timber deck and is approximately 449 feet long. Cornish Toll Bridge Road over the Connecticut River (Br. No. 064/108) is #157 on the 2018 Bridge Rehabilitation and Replacement priority list. This bridge's current condition rating is Deck: 5, Superstructure: 6, and Substructure: 2. Performing bridge preservation activities on the bridge will prevent scour at this historic structure and extend the useful life of the bridge.

TRAFFIC IMPLICATION: The project anticipates traffic impacts on NH Route 12A during one construction season. Traffic will be maintained utilizing one-lane of alternating two-way traffic on NH Route 12A with temporary signals. A temporary signal will also control traffic movements to and from Cornish Toll Bridge Road. Work will be performed beneath the bridge and access to the abutments and piers will be via existing ROW or through NH Fish and Game property at the northeast quadrant of the bridge. The pier and Vermont abutment will be accessed via barge moored at the northeast quadrant. Temporary easements have been completed with all land owners. TCC Meeting occurred on 01-19-2017, Work Zone Significance: Non-Significant.

FINAL COMPLETION DATE: October 29, 2021.

