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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 July 13, 2018

REQUESTED ACTION

1. Authorize the Department of Transportation to enter into a contract with R.S. Audley, Inc. (Vendor 154222) of Bow, NH on the basis of a low bid of \$4,648,329.50 for bridge preservation efforts for the bridges carrying I-293 EB & WB over the Merrimack River, from the date of Governor and Council approval through October 18, 2019 unless extended by the Department in accordance with the Standard Specifications. 100% Federal Funds.

Funding is available in State Fiscal Year 2019 and is contingent upon the availability and continued appropriation of funds in Fiscal Year 2020 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 2019, FY 2020. Row 1: Consolidated Federal Aid 400-500870 Highway Contract Payments, \$2,648,329.50, \$2,000,000.00

2. Further authorize that a contingency in the amount of \$464,832.96 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 2019, FY 2020. Row 1: Consolidated Federal Aid 400-500870 Highway Contract Payments, \$464,832.96

EXPLANATION

This project is part of the State's Ten Year Transportation Improvement Plan under the Bridge HIB M&P Statewide Programmatic. This project consists of bridge preservation work on I-293 NB/NH 101 WB (Br. No. 199/129) and I-293 SB/NH 101 EB (Br. No. 199/128) over the Merrimack River and PanAm Railroad in the Town of Bedford and the City of Manchester. The work on Br. No. 199/129 begins approximately at the ramp gore between I-293 NB and NH 101 WB on the west side of the bridge, continues approximately 3,150 feet east, and ends approximately 300 feet east of the ramp gore between I-293 NB and the I-293 NB on-ramp from Brown Avenue on the east side of the bridge. The work on Br. No. 199/128 begins approximately at the ramp gore between I-293 SB and the I-293 SB on-

ramp from FEET on the west side of the bridge, continues approximately 2,850 feet east and ends approximately 150 feet east of the ramp gore between I-293 SB and the I-293 SB off-ramp to Brown Avenue on the east side of the bridge. The scope of work includes replacement of the bridge deck pavement and membrane, partial and full depth deck repair, replacement of modular expansion joints, and installation of protective screening over the PanAm Railroad.

The existing bridges were built in 1960 and redecked in 1992. The current condition rating of Br. No. 199/129 is 6 (Deck, satisfactory), 6 (Superstructure, satisfactory), and 5 (Substructure, fair). The current condition rating of Br. No. 199/128 is 7 (Deck, good), 6 (Superstructure, satisfactory), and 4 (Substructure, poor). The expansion joints are leaking and the concrete pier caps beneath them are deteriorating. This preservation project will address and fix these issues to extend the life of these structures and keep Br. No. 199/129 off the State's Red List and take Br. No. 199/128 off the State's Red List.

The contingency amount is proposed to be 10%. This work preserves two bridges built in 1960, which were redecked in 1992. The work includes partial and full depth deck repairs. The extent of this work has been estimated, but the full extent of the work won't be fully known until the existing asphalt and membrane are removed from the bridge. These factors increase the risk of overruns.

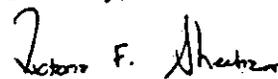
Although the bid costs exceeded the Department's estimate by 2.25%, the low bid is felt to be reasonable for the work involved. Readvertising this project would result, in our opinion, in higher prices and prevent the completion of the work in a timely manner. The Department considers it to be in the 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 80% federal funds with 20% state match. Turnpike toll credit is being utilized for match requirements, effectively using 100% federal funds.

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.

Sincerely,



Victoria F. Sheehan  
Commissioner

VFS/md

Department Estimate: \$4,546,093.60

Contract Amount: \$4,648,329.50

Over Estimate: \$ 102,235.90

Attachments

May 16, 2018

**SUPPLEMENTAL PROJECT INFORMATION SHEET**

**DESCRIPTION:** This project consists of bridge preservation work on I-293 NB/NH 101 WB (Br. No. 199/129) and I-293 SB/NH 101 EB (Br. No. 199/128) over the Merrimack River and PanAm Railroad in the Town of Bedford and the City of Manchester. The work on Br. No. 199/129 begins approximately at the ramp gore between I-293 NB and NH 101 WB on the west side of the bridge, continues approximately 3,150 feet east, and ends approximately 300 feet east of the ramp gore between I-293 NB and the I-293 NB on-ramp from Brown Avenue on the east side of the bridge. The work on Br. No. 199/128 begins approximately at the ramp gore between I-293 SB and the I-293 SB on-ramp from FEET on the west side of the bridge, continues approximately 2,850 feet east and ends approximately 150 feet east of the ramp gore between I-293 SB and the I-293 SB off-ramp to Brown Avenue on the east side of the bridge. The scope of work includes replacement of the bridge deck pavement and membrane, partial and full depth deck repair, replacement of modular expansion joints, and installation of protective screening over the PanAm Railroad.

**FEDERAL FUNDING:** 80% (Bridge-HIB-M&P) utilizing Turnpike Toll credits as the State's 20% match

**CONTINGENCY:** The contingency amount is proposed to be 10%. This work preserves two bridges built in 1960, which were redecked in 1992. The work includes partial and full depth deck repairs. The extent of this work has been estimated, but the full extent of the work won't be fully known until the existing asphalt and membrane are removed from the bridge. These factors increase the risk of overruns.

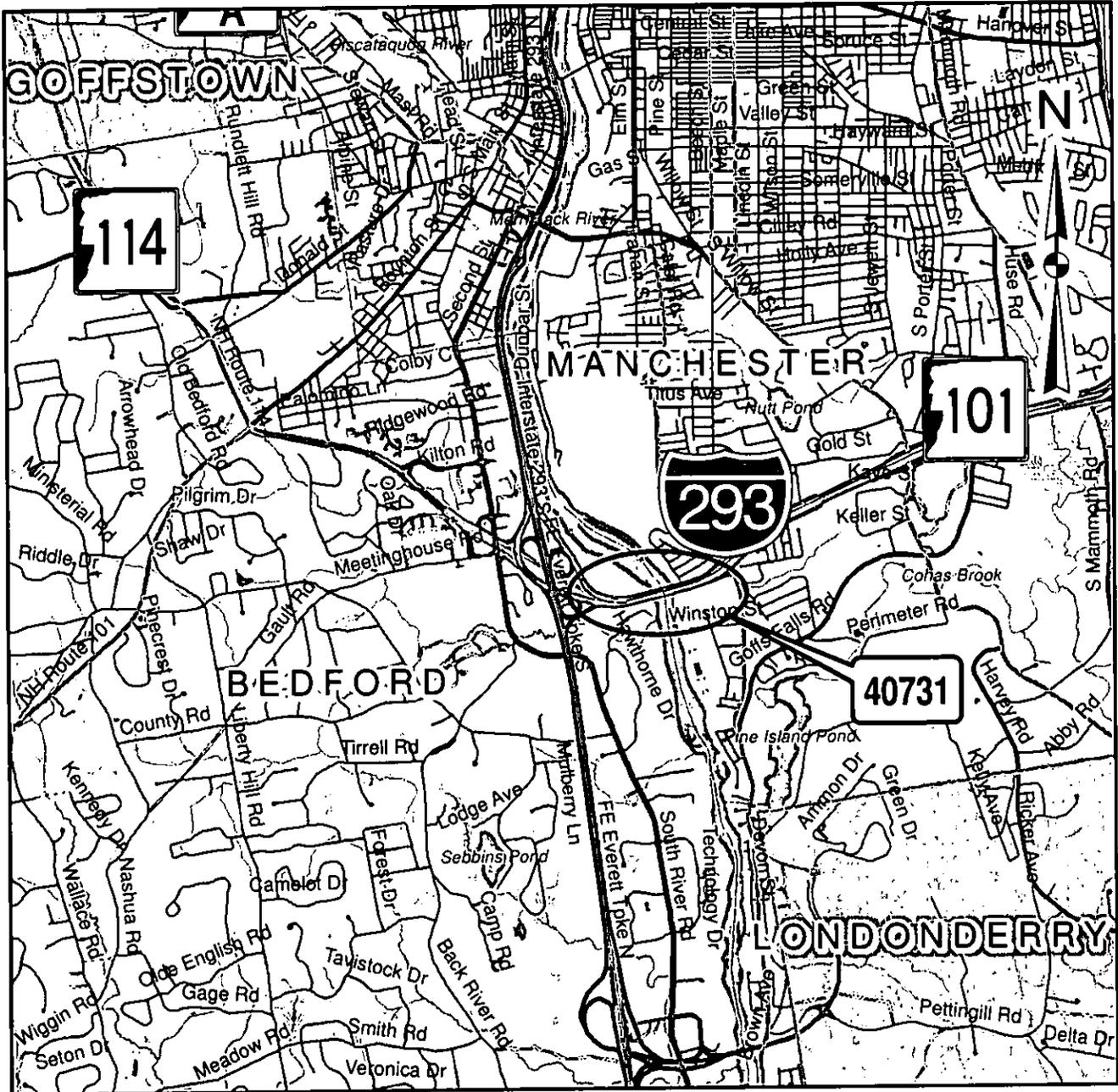
**PROJECT INITIATED:** 2016 M&P Priority List

**PROJECT EXPLANATION:** The existing bridges were built in 1960 and redecked in 1992. The current condition rating of Br. No. 199/129 is 6 (Deck, satisfactory), 6 (Superstructure, satisfactory), and 5 (Substructure, fair). The current condition rating of Br. No. 199/128 is 7 (Deck, good), 6 (Superstructure, satisfactory), and 4 (Substructure, poor). The expansion joints are leaking and the concrete pier caps beneath them are deteriorating. This preservation project will address and fix these issues to extend the life of these structures and keep Br. No. 199/129 off the State's Red List and take Br. No. 199/128 off the State's Red List.

**TRAFFIC IMPLICATION:** Beginning in mid-April of 2019, I-293 will be reducing from three lanes across the bridge to two lanes. The short taper and merge of the I-293 NB (NH 101 WB) on-ramp from Brown Ave requires closing the ramp for four to five months. Incentives/Disincentives are included in the Contract to encourage early completion of the work during the ramp closure. A signed detour will direct motorists to use Exit 1 (South Willow Street) to reverse direction. Congestion back up from I-293 SB (NH 101 EB) on ramp during AM and PM peaks is anticipated.

**FINAL COMPLETION DATE:** October 18, 2019

# BEDFORD-MANCHESTER - I-293 NB & SB



**LEGEND**

- Streams
- Water Bodies
- US Routes
- State Routes
- Interstates
- Local Roads
- Town Boundary

*New Hampshire*  
**DOT**  
 Department of Transportation

State # 40731  
 Federal #: X-A004(475)

**LOCATION MAP**





# ABC Bid Data

BEDFORD - MANCHESTER

40731

X-A004(475)

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PROJECT:	BEDFORD - MANCHESTER	Awarded To:	AUDLEY, R. S., INC.	Certified by:	<u>PETER.E.STAMNAS</u>
STATE PROJECT NUMBER:	40731		1113 ROUTE 3A		Director of Project Development
FED. PROJECT NUMBER:	X-A004(475)		BOW, NH 03304-4025		
DATE BIDS OPEN:	June 28, 2018, 2:00	Amount:	\$4,648,329.50		
SCOPE OF WORK:	Bridge Preservation efforts for the bridges carrying I-293 EB & WB over Merrimack River	Award Date:			
COMPLETION DATE:	October 18, 2019				
LOCATION:	Hillsborough				

## Summary of Bidders

Contractor	Bid Amount	Rank
AUDLEY, R. S., INC. 1113 ROUTE 3A, BOW, NH 03304-4025	\$4,648,329.50	A
SWETT, E. D. INC. 8 INDUSTRIAL PARK DR, CONCORD NH 03301-8512	\$4,787,972.20	B
BECK & BELLUCCI, INC. 10 SALISBURY ROAD, PO BOX 429, FRANKLIN NH 03235-0429	\$5,669,678.61	C

Item No.	Description	Unit	Quantity	PS&E		AUDLEY, R. S., INC. 1115 ROUTE 5A BOW, NH 03304-4025		SWETT, E. D. INC. 8 INDUSTRIAL PARK DR CONCORD, NH 03301-4512	
				Unit Price	Total	Unit Price	Total	Unit Price	Total

Items

203.5525	PORTABLE CHANGEABLE MESSAGE SIGN PLATFORM	U	4.00	\$1,000.00	\$4,000.00	\$1,600.00	\$6,400.00	\$1,000.00	\$4,000.00
203.55261	INSTALLATION AND REMOVAL OF SWZ - PORTABLE QUEUE TRAILER PLATFORM	U	4.00	\$950.00	\$3,800.00	\$1,200.00	\$4,800.00	\$2,000.00	\$8,000.00
203.55262	INSTALLATION AND REMOVAL OF SWZ - PORTABLE CHANGEABLE MESSAGE SIGN PLATFORM	U	1.00	\$1,050.00	\$1,050.00	\$1,200.00	\$1,200.00	\$2,000.00	\$2,000.00
203.55264	INSTALLATION AND REMOVAL OF SWZ - MOBILE VIDEO TRAILER PLATFORM	U	1.00	\$910.00	\$910.00	\$1,200.00	\$1,200.00	\$2,000.00	\$2,000.00
403.11902	HBP - MACHINE METHOD, HIGH STRENGTH (QC/QA TIER 2)	TON	3,000.00	\$90.00	\$270,000.00	\$78.00	\$234,000.00	\$85.00	\$255,000.00
403.12	HOT BITUMINOUS PAVEMENT, HAND METHOD	TON	10.00	\$120.00	\$1,200.00	\$150.00	\$1,500.00	\$150.00	\$1,500.00
403.6	PAVEMENT JOINT ADHESIVE	LF	20,200.00	\$1.50	\$30,300.00	\$0.25	\$5,050.00	\$0.25	\$5,050.00
403.61	PAVEMENT JOINT ADHESIVE (BRIDGE BASE)	LF	9,716.00	\$2.00	\$19,432.00	\$0.50	\$4,858.00	\$0.50	\$4,858.00
403.911	HOT BITUMINOUS BRIDGE PAVEMENT, 1" BASE COURSE	TON	600.00	\$185.00	\$111,000.00	\$105.00	\$63,000.00	\$150.00	\$90,000.00
403.99	TEMPORARY BITUMINOUS PAVEMENT	TON	5.00	\$80.00	\$400.00	\$200.00	\$1,000.00	\$200.00	\$1,000.00
410.22	ASPHALT EMULSION FOR TACK COAT	GAL	3,500.00	\$4.00	\$14,000.00	\$3.00	\$10,500.00	\$3.00	\$10,500.00
417.	COLD PLANING BITUMINOUS SURFACES	SY	39,000.00	\$2.50	\$97,500.00	\$1.80	\$70,200.00	\$1.75	\$68,250.00
417.416	RUMBLE STRIPS, 16" WIDE	LF	5,660.00	\$0.60	\$3,396.00	\$2.10	\$11,886.00	\$2.32	\$13,131.20
417.53	REMOVE AND INLAY EXISTING RUMBLE STRIPS	LF	2,900.00	\$2.00	\$5,800.00	\$2.00	\$5,800.00	\$2.00	\$5,800.00
502.101	REMOVAL OF EXISTING BRIDGE STRUCTURE	U	1.00	\$70,000.00	\$70,000.00	\$170,000.00	\$170,000.00	\$150,000.00	\$150,000.00
502.102	REMOVAL OF EXISTING BRIDGE STRUCTURE	U	1.00	\$70,000.00	\$70,000.00	\$169,000.00	\$169,000.00	\$150,000.00	\$150,000.00
511.00	CONCRETE BRIDGE DECK PAVEMENT REMOVAL (F)	SY	10,462.00	\$20.00	\$209,240.00	\$7.00	\$73,234.00	\$30.00	\$313,860.00
511.02	PREPARATION FOR PARTIAL DEPTH CONCRETE BRIDGE DECK REPAIRS	SY	1,006.00	\$385.00	\$387,310.00	\$400.00	\$402,400.00	\$150.00	\$150,900.00
511.03	PREPARATION FOR FULL DEPTH CONCRETE BRIDGE DECK REPAIRS	SY	112.00	\$638.00	\$71,456.00	\$700.00	\$78,400.00	\$300.00	\$33,600.00
512.02	PREPARATION FOR CONCRETE REPAIRS, CLASS II	SY	599.00	\$680.00	\$407,320.00	\$900.00	\$539,100.00	\$750.00	\$449,250.00
520.01	CONCRETE CLASS AA	CY	233.00	\$1,320.00	\$307,560.00	\$1,350.00	\$314,550.00	\$1,000.00	\$233,000.00
520.0201	CONCRETE CLASS AA, ABOVE FOOTINGS	CY	110.00	\$1,540.00	\$169,400.00	\$1,200.00	\$132,000.00	\$1,250.00	\$137,500.00
534.3	WATER REPELLENT (SILANE/SILOXANE)	GAL	168.00	\$90.00	\$15,120.00	\$80.00	\$13,440.00	\$100.00	\$16,800.00
536.11	EPOXY COATING FOR CONCRETE (F)	SF	1,454.00	\$4.50	\$6,543.00	\$12.00	\$17,448.00	\$15.00	\$21,810.00
536.6	BARRIER MEMBRANE, HEAT WELDED - MACHINE METHOD (F)	SY	10,872.00	\$25.30	\$275,061.60	\$14.75	\$160,362.00	\$30.00	\$326,160.00
540.511	GALVANIC CORROSION PROTECTION SYSTEM (DISTRIBUTED ANODES)	LF	436.00	\$44.00	\$19,184.00	\$35.00	\$15,260.00	\$42.00	\$18,312.00
540.512	GALVANIC CORROSION PROTECTION SYSTEM (DISCRETE ANODES)	EA	3,473.00	\$44.00	\$152,812.00	\$15.00	\$52,095.00	\$22.00	\$76,406.00
544.01	REINFORCING STEEL	LB	500.00	\$2.20	\$1,100.00	\$1.90	\$950.00	\$5.00	\$2,500.00
544.2	REINFORCING STEEL, EPOXY COATED (F)	LB	8,332.00	\$2.75	\$22,913.00	\$2.00	\$16,664.00	\$2.50	\$20,830.00

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				Unit Price	Total	Unit Price	Total	Unit Price	Total
544.21	REINFORCING STEEL, EPOXY COATED, MECHANICAL CONNECTORS (F)	LB	936.00	\$2.75	\$2,574.00	\$4.50	\$4,212.00	\$5.00	\$4,680.00
561.2001	PREFABRICATED MODULAR BRIDGE JOINT SYSTEM (F)	LF	109.00	\$1,650.00	\$179,850.00	\$1,800.00	\$196,200.00	\$1,500.00	\$163,500.00
561.2002	PREFABRICATED MODULAR BRIDGE JOINT SYSTEM (F)	LF	109.00	\$1,650.00	\$179,850.00	\$1,800.00	\$196,200.00	\$1,915.00	\$208,735.00
562.1	SILICONE JOINT SEALANT (F)	LF	14.00	\$22.00	\$308.00	\$100.00	\$1,400.00	\$20.00	\$280.00
563.001	BRIDGE RAIL ANCHORAGE	EA	16.00	\$247.50	\$3,960.00	\$320.00	\$5,120.00	\$200.00	\$3,200.00
563.94	PROTECTIVE SCREENING FOR OVERPASS STRUCTURES	LF	162.00	\$181.50	\$29,403.00	\$165.00	\$26,730.00	\$100.00	\$16,200.00
604.0007	POLYETHYLENE LINER	EA	1.00	\$200.00	\$200.00	\$275.00	\$275.00	\$200.00	\$200.00
604.124	CATCH BASINS TYPE B, 4-FOOT DIAMETER	U	1.00	\$3,000.00	\$3,000.00	\$4,500.00	\$4,500.00	\$2,500.00	\$2,500.00
606.417	PORTABLE CONCRETE BARRIER FOR TRAFFIC CONTROL	LF	640.00	\$28.00	\$17,920.00	\$40.00	\$25,600.00	\$25.00	\$16,000.00
606.41741	PORTABLE CONCRETE BARRIER FOR TRAFFIC CONTROL - BRIDGE	LF	3,160.00	\$50.00	\$158,000.00	\$45.00	\$142,200.00	\$85.00	\$268,600.00
606.91	RESETTING OR SETTING GUARDRAIL	LF	25.00	\$8.00	\$200.00	\$75.00	\$1,875.00	\$32.00	\$800.00
606.9513	TEMP. IMPACT ATTENUATION DEVICE (REDIRECTIVE), TEST LEVEL 3	U	2.00	\$11,000.00	\$22,000.00	\$7,500.00	\$15,000.00	\$5,000.00	\$10,000.00
609.5	RESET GRANITE CURB	LF	25.00	\$16.50	\$412.50	\$30.00	\$750.00	\$20.00	\$500.00
609.55	RESET GRANITE CURB (BRIDGE)	LF	58.00	\$88.00	\$5,104.00	\$50.00	\$2,900.00	\$50.00	\$2,900.00
614.331	3" STEEL CONDUIT	LF	25.00	\$30.00	\$750.00	\$55.00	\$1,375.00	\$55.00	\$1,375.00
614.523	MOLDED PULL BOX 17"X30"	EA	2.00	\$600.00	\$1,200.00	\$600.00	\$1,200.00	\$600.00	\$1,200.00
614.73114	3" PVC CONDUIT, SCHEDULE 40	LF	105.00	\$12.00	\$1,260.00	\$15.00	\$1,575.00	\$15.00	\$1,575.00
615.03201	TRAFFIC SIGN TYPE C, BREAKAWAY MOUNTS	SF	6.25	\$112.00	\$700.00	\$50.00	\$312.50	\$50.00	\$312.50
615.0501	TRAFFIC SIGN TYPE BB	SF	25.00	\$21.00	\$525.00	\$15.00	\$375.00	\$15.00	\$375.00
615.0601	TRAFFIC SIGN TYPE CC	SF	29.00	\$21.00	\$609.00	\$12.50	\$362.50	\$15.00	\$435.00
616.191	ALTERATIONS TO TRAFFIC SIGNALS	U	1.00	\$10,000.00	\$10,000.00	\$2,500.00	\$2,500.00	\$2,500.00	\$2,500.00
618.61	UNIFORMED OFFICERS WITH VEHICLE	\$	100,000.00	\$1.00	\$100,000.00	\$1.00	\$100,000.00	\$1.00	\$100,000.00
619.1	MAINTENANCE OF TRAFFIC	U	1.00	\$107,000.00	\$107,000.00	\$85,000.00	\$85,000.00	\$150,000.00	\$150,000.00
619.25	PORTABLE CHANGEABLE MESSAGE SIGN	U	8.00	\$6,500.00	\$52,000.00	\$12,000.00	\$96,000.00	\$7,500.00	\$60,000.00
619.279	AUTOMATED TRAILER-MOUNTED SPEED LIMIT SIGN	U	4.00	\$2,500.00	\$10,000.00	\$4,000.00	\$16,000.00	\$7,500.00	\$30,000.00
619.503	WORK ZONE ITS OPERATIONAL COSTS (SUMMER)	MON	10.00	\$650.00	\$6,500.00	\$3,000.00	\$30,000.00	\$2,950.00	\$29,500.00
619.51	PORTABLE QUEUE TRAILER / SENSOR (PQT)	MON	80.00	\$625.00	\$50,000.00	\$1,500.00	\$120,000.00	\$575.00	\$46,000.00
619.52	PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)	MON	25.00	\$850.00	\$21,250.00	\$1,500.00	\$37,500.00	\$825.00	\$20,625.00
619.54	MOBILE VIDEO TRAILER WITH PAN TILT ZOOM (PTZ)	MON	20.00	\$1,120.00	\$22,400.00	\$2,000.00	\$40,000.00	\$1,200.00	\$24,000.00
619.91	RELOCATE WORK ZONE ITS DEVICE	U	5.00	\$350.00	\$1,750.00	\$600.00	\$3,000.00	\$750.00	\$3,750.00
628.2	SAWED BITUMINOUS PAVEMENT	LF	3,700.00	\$2.50	\$9,250.00	\$1.50	\$5,550.00	\$2.00	\$7,400.00
632.0104	RETROREFLECTIVE PAINT PAVE. MARKING, 4" LINE	LF	300.00	\$0.19	\$57.00	\$0.15	\$45.00	\$0.15	\$45.00

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				Unit Price	Total	Unit Price	Total	Unit Price	Total
632.0106	RETROREFLECTIVE PAINT PAVE. MARKING, 6" LINE	LF	33,500.00	\$0.17	\$5,695.00	\$0.18	\$6,030.00	\$0.18	\$6,030.00
632.1106	PREFORMED RETROREFLECTIVE TAPE, TYPE I (REMOVABLE) 6" LINE	LF	15,450.00	\$1.90	\$29,355.00	\$1.10	\$16,995.00	\$2.25	\$34,762.50
632.3106	RETROREFLECT. THERMOPLAS. PAVE. MARKING, 6" LINE	LF	160.00	\$2.15	\$322.50	\$0.85	\$127.50	\$2.50	\$375.00
632.3112	RETROREFLECT. THERMOPLAS. PAVE. MARKING, 12" LINE	LF	3,900.00	\$3.25	\$12,675.00	\$2.75	\$10,725.00	\$2.75	\$10,725.00
632.32	RETROREFLECT. THERMOPLAS. PAVEMENT MARKING, SYMBOL OR WORD	SF	160.00	\$6.00	\$960.00	\$5.75	\$920.00	\$10.00	\$1,600.00
632.911	OBLITERATE PAVE. MARKING LINE, 12" WIDE & UNDER	LF	15,550.00	\$0.52	\$8,086.00	\$0.45	\$6,997.50	\$0.45	\$6,997.50
632.92	OBLITERATE PAVEMENT MARKING, SYMBOL OR WORD	SF	60.00	\$3.00	\$180.00	\$1.30	\$78.00	\$1.25	\$75.00
645.531	SILT FENCE	LF	200.00	\$5.00	\$1,000.00	\$10.00	\$2,000.00	\$3.00	\$600.00
646.31	TURF ESTABLISHMENT WITH MULCH AND TACKIFIERS	SY	125.00	\$2.00	\$250.00	\$4.50	\$562.50	\$4.50	\$562.50
647.1	HUMUS	CY	15.00	\$50.00	\$750.00	\$50.00	\$750.00	\$50.00	\$750.00
670.104	TEMPORARY PORTABLE LIGHTING	U	2.00	\$10,300.00	\$20,600.00	\$11,500.00	\$23,000.00	\$10,000.00	\$20,000.00
677.41001	CLOSED CIRCUIT TELEVISION (CCTV) SYSTEM FOUNDATION	U	1.00	\$15,000.00	\$15,000.00	\$18,000.00	\$18,000.00	\$24,000.00	\$24,000.00
677.4101	CCTV SYSTEM	U	1.00	\$60,000.00	\$60,000.00	\$45,000.00	\$45,000.00	\$47,000.00	\$47,000.00
677.54101	GROUND MOUNTED ITS EQUIPMENT CABINET	U	1.00	\$15,000.00	\$15,000.00	\$15,000.00	\$15,000.00	\$14,500.00	\$14,500.00
677.5822	1 GBPS FIBER ETHERNET SWITCH	EA	1.00	\$5,000.00	\$5,000.00	\$6,500.00	\$6,500.00	\$6,800.00	\$6,800.00
677.6301	METER AND DISCONNECT PEDESTAL	U	1.00	\$6,000.00	\$6,000.00	\$2,750.00	\$2,750.00	\$2,500.00	\$2,500.00
677.64	UNINTERRUPTABLE POWER SUPPLY (UPS)	EA	1.00	\$6,000.00	\$6,000.00	\$6,500.00	\$6,500.00	\$6,250.00	\$6,250.00
677.9308	3-CONDUCTOR #8 AWG CABLE	LF	45.00	\$4.00	\$180.00	\$12.00	\$540.00	\$12.00	\$540.00
692.	MOBILIZATION	U	1.00	\$316,000.00	\$316,000.00	\$454,000.00	\$454,000.00	\$568,000.00	\$568,000.00
693.	ON-THE-JOB TRAINING OF UNSKILLED WORKERS	\$	600.00	\$1.00	\$600.00	\$1.00	\$600.00	\$1.00	\$600.00
697.41	CRITICAL PATH METHOD (CPM) ELECTRONIC SCHEDULE	U	1.00	\$2,000.00	\$2,000.00	\$2,000.00	\$2,000.00	\$5,000.00	\$5,000.00
698.12	FIELD OFFICE TYPE B	MON	18.00	\$2,500.00	\$45,000.00	\$2,200.00	\$39,600.00	\$1,750.00	\$31,500.00
699.	MISCELLANEOUS TEMPORARY EROSION AND SEDIMENT CONTROL	\$	10,000.00	\$1.00	\$10,000.00	\$1.00	\$10,000.00	\$1.00	\$10,000.00
1002.1	REPAIRS OR REPLACEMENTS AS NEEDED - BRIDGE STRUCTURES	\$	25,000.00	\$1.00	\$25,000.00	\$1.00	\$25,000.00	\$1.00	\$25,000.00
1008.22	ALTERATIONS AND ADDITIONS AS NEEDED - TRAFFIC SIGNALS	\$	30,000.00	\$1.00	\$30,000.00	\$1.00	\$30,000.00	\$1.00	\$30,000.00
1010.15	FUEL ADJUSTMENT	\$	41,000.00	\$1.00	\$41,000.00	\$1.00	\$41,000.00	\$1.00	\$41,000.00
1010.2	ASPHALT CEMENT ADJUSTMENT	\$	10,000.00	\$1.00	\$10,000.00	\$1.00	\$10,000.00	\$1.00	\$10,000.00
1010.3	QUALITY CONTROL QUALITY ASSURANCE (QC/QA) ASPHALT	\$	13,600.00	\$1.00	\$13,600.00	\$1.00	\$13,600.00	\$1.00	\$13,600.00
1010.5	COMPLETION INCENTIVE/ DISINCENTIVE	\$	120,000.00	\$1.00	\$120,000.00	\$1.00	\$120,000.00	\$1.00	\$120,000.00
<b>Totals:</b>					<b>\$4,548,093.60</b>		<b>\$4,648,329.50</b>		<b>\$4,787,972.20</b>
<b>Alt. Totals:</b>									

Item No.	Description	Unit	Quantity	P&E		AUDLEY, R. S., INC. 1113 ROUTE 3A BOW, NH 03304-4025		SWETT, E. D., INC. 8 INDUSTRIAL PARK DR CONCORD, NH 03301-8512	
				Unit Price	Total	Unit Price	Total	Unit Price	Total
<b>Totals:</b>					\$4,546,093.60		\$4,648,329.50		\$4,787,972.20

Item No.	Description	Unit	Quantity	PS&E		BECK & BELLUCCI, INC. 10 SALISBURY ROAD FRANKLIN, NH 03235-0429		Unit Price	Total
				Unit Price	Total	Unit Price	Total		

Items

203.5525	PORTABLE CHANGEABLE MESSAGE SIGN PLATFORM	U	4.00	\$1,000.00	\$4,000.00	\$2,000.00	\$8,000.00		
203.55261	INSTALLATION AND REMOVAL OF SWZ - PORTABLE QUEUE TRAILER PLATFORM	U	4.00	\$950.00	\$3,800.00	\$1,500.00	\$6,000.00		
203.55262	INSTALLATION AND REMOVAL OF SWZ - PORTABLE CHANGEABLE MESSAGE SIGN PLATFORM	U	1.00	\$1,050.00	\$1,050.00	\$1,500.00	\$1,500.00		
203.55264	INSTALLATION AND REMOVAL OF SWZ - MOBILE VIDEO TRAILER PLATFORM	U	1.00	\$910.00	\$910.00	\$1,500.00	\$1,500.00		
403.11902	HBP - MACHINE METHOD, HIGH STRENGTH (QC/QA TIER 2)	TON	3,000.00	\$90.00	\$270,000.00	\$77.70	\$233,100.00		
403.12	HOT BITUMINOUS PAVEMENT, HAND METHOD	TON	10.00	\$120.00	\$1,200.00	\$157.50	\$1,575.00		
403.6	PAVEMENT JOINT ADHESIVE	LF	20,200.00	\$1.50	\$30,300.00	\$0.27	\$5,454.00		
403.61	PAVEMENT JOINT ADHESIVE (BRIDGE BASE)	LF	9,716.00	\$2.00	\$19,432.00	\$0.27	\$2,623.32		
403.911	HOT BITUMINOUS BRIDGE PAVEMENT, 1" BASE COURSE	TON	600.00	\$185.00	\$111,000.00	\$80.00	\$48,000.00		
403.99	TEMPORARY BITUMINOUS PAVEMENT	TON	5.00	\$80.00	\$400.00	\$185.00	\$925.00		
410.22	ASPHALT EMULSION FOR TACK COAT	GAL	3,500.00	\$4.00	\$14,000.00	\$3.15	\$11,025.00		
417.	COLD PLANING BITUMINOUS SURFACES	SY	39,000.00	\$2.50	\$97,500.00	\$1.84	\$71,760.00		
417.416	RUMBLE STRIPS, 16" WIDE	LF	5,660.00	\$0.60	\$3,396.00	\$4.00	\$22,640.00		
417.53	REMOVE AND INLAY EXISTING RUMBLE STRIPS	LF	2,900.00	\$2.00	\$5,800.00	\$5.25	\$15,225.00		
502.101	REMOVAL OF EXISTING BRIDGE STRUCTURE	U	1.00	\$70,000.00	\$70,000.00	\$160,000.00	\$160,000.00		
502.102	REMOVAL OF EXISTING BRIDGE STRUCTURE	U	1.00	\$70,000.00	\$70,000.00	\$160,000.00	\$160,000.00		
511.00	CONCRETE BRIDGE DECK PAVEMENT REMOVAL (F)	SY	10,462.00	\$20.00	\$209,240.00	\$18.00	\$188,316.00		
511.02	PREPARATION FOR PARTIAL DEPTH CONCRETE BRIDGE DECK REPAIRS	SY	1,006.00	\$385.00	\$387,310.00	\$450.00	\$452,700.00		
511.03	PREPARATION FOR FULL DEPTH CONCRETE BRIDGE DECK REPAIRS	SY	112.00	\$638.00	\$71,456.00	\$900.00	\$100,800.00		
512.02	PREPARATION FOR CONCRETE REPAIRS, CLASS II	SY	599.00	\$680.00	\$407,320.00	\$1,500.00	\$898,500.00		
520.01	CONCRETE CLASS AA	CY	233.00	\$1,320.00	\$307,560.00	\$1,000.00	\$233,000.00		
520.0201	CONCRETE CLASS AA, ABOVE FOOTINGS	CY	110.00	\$1,540.00	\$169,400.00	\$1,600.00	\$176,000.00		
534.3	WATER REPELLENT (SILANE/SILOXANE)	GAL	168.00	\$90.00	\$15,120.00	\$100.00	\$16,800.00		
536.11	EPOXY COATING FOR CONCRETE (F)	SF	1,454.00	\$4.50	\$6,543.00	\$25.00	\$36,350.00		
538.6	BARRIER MEMBRANE, HEAT WELDED - MACHINE METHOD (F)	SY	10,672.00	\$25.30	\$275,061.60	\$15.75	\$171,234.00		
540.511	GALVANIC CORROSION PROTECTION SYSTEM (DISTRIBUTED ANODES)	LF	436.00	\$44.00	\$19,184.00	\$48.00	\$20,928.00		
540.512	GALVANIC CORROSION PROTECTION SYSTEM (DISCRETE ANODES)	EA	3,473.00	\$44.00	\$152,812.00	\$30.00	\$104,190.00		
544.01	REINFORCING STEEL	LB	500.00	\$2.20	\$1,100.00	\$3.50	\$1,750.00		
544.2	REINFORCING STEEL, EPOXY COATED (F)	LB	8,332.00	\$2.75	\$22,913.00	\$1.62	\$13,497.84		

Item No.	Description	Unit	Quantity	PS&E		BECK & BELLUCCI, INC. 19 SALISBURY ROAD FRANKLIN, NH 03235-0429		Unit Price	Total
				Unit Price	Total	Unit Price	Total		
544.21	REINFORCING STEEL, EPOXY COATED, MECHANICAL CONNECTORS (F)	LB	936.00	\$2.75	\$2,574.00	\$3.00	\$2,808.00		
561.2001	PREFABRICATED MODULAR BRIDGE JOINT SYSTEM (F)	LF	109.00	\$1,650.00	\$179,850.00	\$1,725.00	\$188,025.00		
561.2002	PREFABRICATED MODULAR BRIDGE JOINT SYSTEM (F)	LF	109.00	\$1,650.00	\$179,850.00	\$2,100.00	\$228,900.00		
562.1	SILICONE JOINT SEALANT (F)	LF	14.00	\$22.00	\$308.00	\$30.00	\$420.00		
563.001	BRIDGE RAIL ANCHORAGE	EA	16.00	\$247.50	\$3,960.00	\$485.00	\$7,760.00		
563.94	PROTECTIVE SCREENING FOR OVERPASS STRUCTURES	LF	162.00	\$181.50	\$29,403.00	\$173.00	\$28,026.00		
604.0007	POLYETHYLENE LINER	EA	1.00	\$200.00	\$200.00	\$350.00	\$350.00		
604.124	CATCH BASINS TYPE B, 4-FOOT DIAMETER	U	1.00	\$3,000.00	\$3,000.00	\$4,000.00	\$4,000.00		
606.417	PORTABLE CONCRETE BARRIER FOR TRAFFIC CONTROL	LF	640.00	\$28.00	\$17,920.00	\$35.00	\$22,400.00		
606.41741	PORTABLE CONCRETE BARRIER FOR TRAFFIC CONTROL - BRIDGE	LF	3,160.00	\$50.00	\$158,000.00	\$40.00	\$126,400.00		
606.91	RESETTING OR SETTING GUARDRAIL	LF	25.00	\$8.00	\$200.00	\$80.00	\$2,000.00		
606.9513	TEMP. IMPACT ATTENUATION DEVICE (REDIRECTIVE), TEST LEVEL 3	U	2.00	\$11,000.00	\$22,000.00	\$7,500.00	\$15,000.00		
609.5	RESET GRANITE CURB	LF	25.00	\$16.50	\$412.50	\$30.00	\$750.00		
609.55	RESET GRANITE CURB (BRIDGE)	LF	58.00	\$88.00	\$5,104.00	\$95.00	\$5,510.00		
614.331	3" STEEL CONDUIT	LF	25.00	\$30.00	\$750.00	\$58.00	\$1,450.00		
614.523	MOLDED PULL BOX 17"X30"	EA	2.00	\$600.00	\$1,200.00	\$630.00	\$1,260.00		
614.73114	3" PVC CONDUIT, SCHEDULE 40	LF	105.00	\$12.00	\$1,260.00	\$15.75	\$1,653.75		
615.03201	TRAFFIC SIGN TYPE C, BREAKAWAY MOUNTS	SF	6.25	\$112.00	\$700.00	\$55.00	\$343.75		
615.0501	TRAFFIC SIGN TYPE BB	SF	25.00	\$21.00	\$525.00	\$17.25	\$431.25		
615.0601	TRAFFIC SIGN TYPE CC	SF	29.00	\$21.00	\$609.00	\$13.80	\$400.20		
616.191	ALTERATIONS TO TRAFFIC SIGNALS	U	1.00	\$10,000.00	\$10,000.00	\$2,625.00	\$2,625.00		
618.61	UNIFORMED OFFICERS WITH VEHICLE	\$	100,000.00	\$1.00	\$100,000.00	\$1.00	\$100,000.00		
619.1	MAINTENANCE OF TRAFFIC	U	1.00	\$107,000.00	\$107,000.00	\$400,000.00	\$400,000.00		
619.25	PORTABLE CHANGEABLE MESSAGE SIGN	U	8.00	\$6,500.00	\$52,000.00	\$4,000.00	\$32,000.00		
619.279	AUTOMATED TRAILER-MOUNTED SPEED LIMIT SIGN	U	4.00	\$2,500.00	\$10,000.00	\$2,500.00	\$10,000.00		
619.503	WORK ZONE ITS OPERATIONAL COSTS (SUMMER)	MON	10.00	\$650.00	\$6,500.00	\$1,774.50	\$17,745.00		
619.51	PORTABLE QUEUE TRAILER / SENSOR (PQT)	MON	80.00	\$625.00	\$50,000.00	\$2,410.00	\$192,800.00		
619.52	PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)	MON	25.00	\$850.00	\$21,250.00	\$2,410.00	\$60,250.00		
619.54	MOBILE VIDEO TRAILER WITH PAN TILT ZOOM (PTZ)	MON	20.00	\$1,120.00	\$22,400.00	\$3,145.00	\$62,900.00		
619.91	RELOCATE WORK ZONE ITS DEVICE	U	5.00	\$350.00	\$1,750.00	\$630.00	\$3,150.00		
628.2	SAWED BITUMINOUS PAVEMENT	LF	3,700.00	\$2.50	\$9,250.00	\$2.00	\$7,400.00		
632.0104	RETROREFLECTIVE PAINT PAVE. MARKING, 4" LINE	LF	300.00	\$0.19	\$57.00	\$0.53	\$159.00		

Item No.	Description	Unit	Quantity	P&E		BECK & BELLUCCI INC. 19 SALISBURY ROAD FRANKLIN, NH 03235-0429		Unit Price	Total
				Unit Price	Total	Unit Price	Total		
632.0106	RETROREFLECTIVE PAINT PAVE. MARKING, 6" LINE	LF	33,500.00	\$0.17	\$5,695.00	\$0.21	\$7,035.00		
632.1106	PREFORMED RETROREFLECTIVE TAPE, TYPE I (REMOVABLE) 6" LINE	LF	16,450.00	\$1.90	\$29,355.00	\$1.95	\$30,127.50		
632.3106	RETROREFLECT. THERMOPLAS. PAVE. MARKING, 6" LINE	LF	150.00	\$2.15	\$322.50	\$2.10	\$315.00		
632.3112	RETROREFLECT. THERMOPLAS. PAVE. MARKING, 12" LINE	LF	3,900.00	\$3.25	\$12,675.00	\$2.65	\$10,335.00		
632.32	RETROREFLECT. THERMOPLAS. PAVEMENT MARKING, SYMBOL OR WORD	SF	160.00	\$6.00	\$960.00	\$7.40	\$1,184.00		
632.911	OBLITERATE PAVE. MARKING LINE, 12" WIDE & UNDER	LF	15,550.00	\$0.52	\$8,086.00	\$0.52	\$8,086.00		
632.92	OBLITERATE PAVEMENT MARKING, SYMBOL OR WORD	SF	60.00	\$3.00	\$180.00	\$2.10	\$126.00		
645.631	SILT FENCE	LF	200.00	\$5.00	\$1,000.00	\$4.00	\$800.00		
646.31	TURF ESTABLISHMENT WITH MULCH AND TACKIFIERS	SY	125.00	\$2.00	\$250.00	\$5.00	\$625.00		
647.1	HUMUS	CY	15.00	\$50.00	\$750.00	\$50.00	\$750.00		
670.104	TEMPORARY PORTABLE LIGHTING	U	2.00	\$10,300.00	\$20,600.00	\$5,000.00	\$10,000.00		
677.41001	CLOSED CIRCUIT TELEVISION (CCTV) SYSTEM FOUNDATION	U	1.00	\$15,000.00	\$15,000.00	\$25,200.00	\$25,200.00		
677.4101	CCTV SYSTEM	U	1.00	\$60,000.00	\$60,000.00	\$49,350.00	\$49,350.00		
677.64101	GROUND MOUNTED ITS EQUIPMENT CABINET	U	1.00	\$15,000.00	\$15,000.00	\$15,225.00	\$15,225.00		
677.6822	1 GBPS FIBER ETHERNET SWITCH	EA	1.00	\$5,000.00	\$5,000.00	\$7,140.00	\$7,140.00		
677.6301	METER AND DISCONNECT PEDESTAL	U	1.00	\$6,000.00	\$6,000.00	\$2,625.00	\$2,625.00		
677.64	UNINTERRUPTABLE POWER SUPPLY (UPS)	EA	1.00	\$6,000.00	\$6,000.00	\$6,560.00	\$6,560.00		
677.9306	3-CONDUCTOR #8 AWG CABLE	LF	45.00	\$4.00	\$180.00	\$13.00	\$585.00		
692.	MOBILIZATION	U	1.00	\$316,000.00	\$316,000.00	\$510,000.00	\$510,000.00		
693.	ON-THE-JOB TRAINING OF UNSKILLED WORKERS	\$	600.00	\$1.00	\$600.00	\$1.00	\$600.00		
697.41	CRITICAL PATH METHOD (CPM) ELECTRONIC SCHEDULE	U	1.00	\$2,000.00	\$2,000.00	\$3,500.00	\$3,500.00		
698.12	FIELD OFFICE TYPE B	MON	18.00	\$2,500.00	\$45,000.00	\$2,200.00	\$39,600.00		
699.	MISCELLANEOUS TEMPORARY EROSION AND SEDIMENT CONTROL	\$	10,000.00	\$1.00	\$10,000.00	\$1.00	\$10,000.00		
1002.1	REPAIRS OR REPLACEMENTS AS NEEDED - BRIDGE STRUCTURES	\$	25,000.00	\$1.00	\$25,000.00	\$1.00	\$25,000.00		
1008.22	ALTERATIONS AND ADDITIONS AS NEEDED - TRAFFIC SIGNALS	\$	30,000.00	\$1.00	\$30,000.00	\$1.00	\$30,000.00		
1010.16	FUEL ADJUSTMENT	\$	41,000.00	\$1.00	\$41,000.00	\$1.00	\$41,000.00		
1010.2	ASPHALT CEMENT ADJUSTMENT	\$	10,000.00	\$1.00	\$10,000.00	\$1.00	\$10,000.00		
1010.3	QUALITY CONTROL QUALITY ASSURANCE (QC/QA) ASPHALT	\$	13,600.00	\$1.00	\$13,600.00	\$1.00	\$13,600.00		
1010.5	COMPLETION INCENTIVE/ DISINCENTIVE	\$	120,000.00	\$1.00	\$120,000.00	\$1.00	\$120,000.00		

Totals:	\$4,546,093.60	\$5,669,678.61
Alt. Totals:		

Item No.	Description	Unit	Quantity	PS&E		BECK & BELLUCCI, INC. 18 SALISBURY ROAD FRANKLIN, NH 03235-0429		Unit Price	Total
				Unit Price	Total	Unit Price	Total		
				Totals:		\$4,546,093.60		\$5,669,678.61	

## PS&E Comparison

BEDFORD - MANCHESTER

40731

X-A004(475)

Item No.	Description	Unit	Quantity	A-Bidder		PS&E		A-PS&E Difference
				Unit Price	Total	Unit Price	Total	
<b>Items</b>								
203.5525	PORTABLE CHANGEABLE MESSAGE SIGN PLATFORM	U	4.00	\$1,600.00	\$6,400.00	\$1,000.00	\$4,000.00	\$2,400.00
203.55261	INSTALLATION AND REMOVAL OF SWZ - PORTABLE QUEUE TRAILER PLATFORM	U	4.00	\$1,200.00	\$4,800.00	\$950.00	\$3,800.00	\$1,000.00
203.55262	INSTALLATION AND REMOVAL OF SWZ - PORTABLE CHANGEABLE MESSAGE SIGN PLATFORM	U	1.00	\$1,200.00	\$1,200.00	\$1,050.00	\$1,050.00	\$150.00
203.55264	INSTALLATION AND REMOVAL OF SWZ - MOBILE VIDEO TRAILER PLATFORM	U	1.00	\$1,200.00	\$1,200.00	\$910.00	\$910.00	\$290.00
403.11902	HBP - MACHINE METHOD, HIGH STRENGTH (QC/QA TIER 2)	TON	3,000.00	\$78.00	\$234,000.00	\$90.00	\$270,000.00	(\$36,000.00)
403.12	HOT BITUMINOUS PAVEMENT, HAND METHOD	TON	10.00	\$150.00	\$1,500.00	\$120.00	\$1,200.00	\$300.00
403.6	PAVEMENT JOINT ADHESIVE	LF	20,200.00	\$0.25	\$5,050.00	\$1.50	\$30,300.00	(\$25,250.00)
403.61	PAVEMENT JOINT ADHESIVE (BRIDGE BASE)	LF	9,716.00	\$0.50	\$4,858.00	\$2.00	\$19,432.00	(\$14,574.00)
403.911	HOT BITUMINOUS BRIDGE PAVEMENT, 1" BASE COURSE	TON	600.00	\$105.00	\$63,000.00	\$185.00	\$111,000.00	(\$48,000.00)
403.99	TEMPORARY BITUMINOUS PAVEMENT	TON	5.00	\$200.00	\$1,000.00	\$80.00	\$400.00	\$600.00
410.22	ASPHALT EMULSION FOR TACK COAT	GAL	3,500.00	\$3.00	\$10,500.00	\$4.00	\$14,000.00	(\$3,500.00)
417.	COLD PLANING BITUMINOUS SURFACES	SY	39,000.00	\$1.80	\$70,200.00	\$2.50	\$97,500.00	(\$27,300.00)
417.416	RUMBLE STRIPS, 16" WIDE	LF	5,660.00	\$2.10	\$11,886.00	\$0.60	\$3,396.00	\$8,490.00

417.53	REMOVE AND INLAY EXISTING RUMBLE STRIPS	LF	2,900.00	\$2.00	\$5,800.00	\$2.00	\$5,800.00	\$0.00
502.101	REMOVAL OF EXISTING BRIDGE STRUCTURE	U	1.00	\$170,000.00	\$170,000.00	\$70,000.00	\$70,000.00	\$100,000.00
502.102	REMOVAL OF EXISTING BRIDGE STRUCTURE	U	1.00	\$169,000.00	\$169,000.00	\$70,000.00	\$70,000.00	\$99,000.00
511.00	CONCRETE BRIDGE DECK PAVEMENT REMOVAL (F)	SY	10,462.00	\$7.00	\$73,234.00	\$20.00	\$209,240.00	(\$136,006.00)
511.02	PREPARATION FOR PARTIAL DEPTH CONCRETE BRIDGE DECK REPAIRS	SY	1,006.00	\$400.00	\$402,400.00	\$385.00	\$387,310.00	\$15,090.00
511.03	PREPARATION FOR FULL DEPTH CONCRETE BRIDGE DECK REPAIRS	SY	112.00	\$700.00	\$78,400.00	\$638.00	\$71,456.00	\$6,944.00
512.02	PREPARATION FOR CONCRETE REPAIRS, CLASS II	SY	599.00	\$900.00	\$539,100.00	\$680.00	\$407,320.00	\$131,780.00
520.01	CONCRETE CLASS AA	CY	233.00	\$1,350.00	\$314,550.00	\$1,320.00	\$307,560.00	\$6,990.00
520.0201	CONCRETE CLASS AA, ABOVE FOOTINGS	CY	110.00	\$1,200.00	\$132,000.00	\$1,540.00	\$169,400.00	(\$37,400.00)
534.3	WATER REPELLENT (SILANE/SILOXANE)	GAL	168.00	\$80.00	\$13,440.00	\$90.00	\$15,120.00	(\$1,680.00)
536.11	EPOXY COATING FOR CONCRETE (F)	SF	1,454.00	\$12.00	\$17,448.00	\$4.50	\$6,543.00	\$10,905.00
538.6	BARRIER MEMBRANE, HEAT WELDED - MACHINE METHOD (F)	SY	10,872.00	\$14.75	\$160,362.00	\$25.30	\$275,061.60	(\$114,699.60)
540.511	GALVANIC CORROSION PROTECTION SYSTEM (DISTRIBUTED ANODES)	LF	436.00	\$35.00	\$15,260.00	\$44.00	\$19,184.00	(\$3,924.00)
540.512	GALVANIC CORROSION PROTECTION SYSTEM (DISCRETE ANODES)	EA	3,473.00	\$15.00	\$52,095.00	\$44.00	\$152,812.00	(\$100,717.00)
544.01	REINFORCING STEEL	LB	500.00	\$1.90	\$950.00	\$2.20	\$1,100.00	(\$150.00)
544.2	REINFORCING STEEL, EPOXY COATED (F)	LB	8,332.00	\$2.00	\$16,664.00	\$2.75	\$22,913.00	(\$6,249.00)
544.21	REINFORCING STEEL, EPOXY COATED, MECHANICAL CONNECTORS (F)	LB	936.00	\$4.50	\$4,212.00	\$2.75	\$2,574.00	\$1,638.00
561.2001	PREFABRICATED MODULAR BRIDGE JOINT SYSTEM (F)	LF	109.00	\$1,800.00	\$196,200.00	\$1,650.00	\$179,850.00	\$16,350.00
561.2002	PREFABRICATED MODULAR BRIDGE JOINT SYSTEM (F)	LF	109.00	\$1,800.00	\$196,200.00	\$1,650.00	\$179,850.00	\$16,350.00
562.1	SILICONE JOINT SEALANT (F)	LF	14.00	\$100.00	\$1,400.00	\$22.00	\$308.00	\$1,092.00
563.001	BRIDGE RAIL ANCHORAGE	EA	16.00	\$320.00	\$5,120.00	\$247.50	\$3,960.00	\$1,160.00
563.94	PROTECTIVE SCREENING FOR OVERPASS STRUCTURES	LF	162.00	\$165.00	\$26,730.00	\$181.50	\$29,403.00	(\$2,673.00)

604.0007	POLYETHYLENE LINER	EA	1.00	\$275.00	\$275.00	\$200.00	\$200.00	\$75.00
604.124	CATCH BASINS TYPE B, 4-FOOT DIAMETER	U	1.00	\$4,500.00	\$4,500.00	\$3,000.00	\$3,000.00	\$1,500.00
606.417	PORTABLE CONCRETE BARRIER FOR TRAFFIC CONTROL	LF	640.00	\$40.00	\$25,600.00	\$28.00	\$17,920.00	\$7,680.00
606.41741	PORTABLE CONCRETE BARRIER FOR TRAFFIC CONTROL - BRIDGE	LF	3,160.00	\$45.00	\$142,200.00	\$50.00	\$158,000.00	(\$15,800.00)
606.91	RESETTING OR SETTING GUARDRAIL	LF	25.00	\$75.00	\$1,875.00	\$8.00	\$200.00	\$1,675.00
606.9513	TEMP. IMPACT ATTENUATION DEVICE (REDIRECTIVE), TEST LEVEL 3	U	2.00	\$7,500.00	\$15,000.00	\$11,000.00	\$22,000.00	(\$7,000.00)
609.5	RESET GRANITE CURB	LF	25.00	\$30.00	\$750.00	\$16.50	\$412.50	\$337.50
609.55	RESET GRANITE CURB (BRIDGE)	LF	58.00	\$50.00	\$2,900.00	\$88.00	\$5,104.00	(\$2,204.00)
614.331	3" STEEL CONDUIT	LF	25.00	\$55.00	\$1,375.00	\$30.00	\$750.00	\$625.00
614.523	MOLDED PULL BOX 17"X30"	EA	2.00	\$600.00	\$1,200.00	\$600.00	\$1,200.00	\$0.00
614.73114	3" PVC CONDUIT, SCHEDULE 40	LF	105.00	\$15.00	\$1,575.00	\$12.00	\$1,260.00	\$315.00
615.03201	TRAFFIC SIGN TYPE C, BREAKAWAY MOUNTS	SF	6.25	\$50.00	\$312.50	\$112.00	\$700.00	(\$387.50)
615.0501	TRAFFIC SIGN TYPE BB	SF	25.00	\$15.00	\$375.00	\$21.00	\$525.00	(\$150.00)
615.0601	TRAFFIC SIGN TYPE CC	SF	29.00	\$12.50	\$362.50	\$21.00	\$609.00	(\$246.50)
616.191	ALTERATIONS TO TRAFFIC SIGNALS	U	1.00	\$2,500.00	\$2,500.00	\$10,000.00	\$10,000.00	(\$7,500.00)
618.61	UNIFORMED OFFICERS WITH VEHICLE	\$	100,000.00	\$1.00	\$100,000.00	\$1.00	\$100,000.00	\$0.00
619.1	MAINTENANCE OF TRAFFIC	U	1.00	\$85,000.00	\$85,000.00	\$107,000.00	\$107,000.00	(\$22,000.00)
619.25	PORTABLE CHANGEABLE MESSAGE SIGN	U	8.00	\$12,000.00	\$96,000.00	\$6,500.00	\$52,000.00	\$44,000.00
619.279	AUTOMATED TRAILER-MOUNTED SPEED LIMIT SIGN	U	4.00	\$4,000.00	\$16,000.00	\$2,500.00	\$10,000.00	\$6,000.00
619.503	WORK ZONE ITS OPERATIONAL COSTS (SUMMER)	MON	10.00	\$3,000.00	\$30,000.00	\$650.00	\$6,500.00	\$23,500.00
619.51	PORTABLE QUEUE TRAILER / SENSOR (PQT)	MON	80.00	\$1,500.00	\$120,000.00	\$625.00	\$50,000.00	\$70,000.00
619.52	PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)	MON	25.00	\$1,500.00	\$37,500.00	\$850.00	\$21,250.00	\$16,250.00
619.54	MOBILE VIDEO TRAILER WITH PAN TILT ZOOM (PTZ)	MON	20.00	\$2,000.00	\$40,000.00	\$1,120.00	\$22,400.00	\$17,600.00

619.91	RELOCATE WORK ZONE ITS DEVICE	U	5.00	\$600.00	\$3,000.00	\$350.00	\$1,750.00	\$1,250.00
628.2	SAWED BITUMINOUS PAVEMENT	LF	3,700.00	\$1.50	\$5,550.00	\$2.50	\$9,250.00	(\$3,700.00)
632.0104	RETROREFLECTIVE PAINT PAVE. MARKING, 4" LINE	LF	300.00	\$0.15	\$45.00	\$0.19	\$57.00	(\$12.00)
632.0106	RETROREFLECTIVE PAINT PAVE. MARKING, 6" LINE	LF	33,500.00	\$0.18	\$6,030.00	\$0.17	\$5,695.00	\$335.00
632.1106	PREFORMED RETROREFLECTIVE TAPE, TYPE 1 (REMOVABLE) 6" LINE	LF	15,450.00	\$1.10	\$16,995.00	\$1.90	\$29,355.00	(\$12,360.00)
632.3106	RETROREFLECT. THERMOPLAS. PAVE. MARKING, 6" LINE	LF	150.00	\$0.85	\$127.50	\$2.15	\$322.50	(\$195.00)
632.3112	RETROREFLECT. THERMOPLAS. PAVE. MARKING, 12" LINE	LF	3,900.00	\$2.75	\$10,725.00	\$3.25	\$12,675.00	(\$1,950.00)
632.32	RETROREFLECT. THERMOPLAS. PAVEMENT MARKING, SYMBOL OR WORD	SF	160.00	\$5.75	\$920.00	\$6.00	\$960.00	(\$40.00)
632.911	OBLITERATE PAVE. MARKING LINE, 12" WIDE & UNDER	LF	15,550.00	\$0.45	\$6,997.50	\$0.52	\$8,086.00	(\$1,088.50)
632.92	OBLITERATE PAVEMENT MARKING, SYMBOL OR WORD	SF	60.00	\$1.30	\$78.00	\$3.00	\$180.00	(\$102.00)
645.531	SILT FENCE	LF	200.00	\$10.00	\$2,000.00	\$5.00	\$1,000.00	\$1,000.00
646.31	TURF ESTABLISHMENT WITH MULCH AND TACKIFIERS	SY	125.00	\$4.50	\$562.50	\$2.00	\$250.00	\$312.50
647.1	HUMUS	CY	15.00	\$50.00	\$750.00	\$50.00	\$750.00	\$0.00
670.104	TEMPORARY PORTABLE LIGHTING	U	2.00	\$11,500.00	\$23,000.00	\$10,300.00	\$20,800.00	\$2,400.00
677.41001	CLOSED CIRCUIT TELEVISION (CCTV) SYSTEM FOUNDATION	U	1.00	\$18,000.00	\$18,000.00	\$15,000.00	\$15,000.00	\$3,000.00
677.4101	CCTV SYSTEM	U	1.00	\$45,000.00	\$45,000.00	\$60,000.00	\$60,000.00	(\$15,000.00)
677.54101	GROUND MOUNTED ITS EQUIPMENT CABINET	U	1.00	\$15,000.00	\$15,000.00	\$15,000.00	\$15,000.00	\$0.00
677.5822	1 GBPS FIBER ETHERNET SWITCH	EA	1.00	\$6,500.00	\$6,500.00	\$5,000.00	\$5,000.00	\$1,500.00
677.6301	METER AND DISCONNECT PEDESTAL	U	1.00	\$2,750.00	\$2,750.00	\$6,000.00	\$6,000.00	(\$3,250.00)
677.64	UNINTERRUPTABLE POWER SUPPLY (UPS)	EA	1.00	\$6,500.00	\$6,500.00	\$6,000.00	\$6,000.00	\$500.00
677.9308	3-CONDUCTOR #8 AWG CABLE	LF	45.00	\$12.00	\$540.00	\$4.00	\$180.00	\$360.00
692.	MOBILIZATION	U	1.00	\$454,000.00	\$454,000.00	\$316,000.00	\$316,000.00	\$138,000.00

693.	ON-THE-JOB TRAINING OF UNSKILLED WORKERS	\$	600.00	\$1.00	\$600.00	\$1.00	\$600.00	\$0.00
697.41	CRITICAL PATH METHOD (CPM) ELECTRONIC SCHEDULE	U	1.00	\$2,000.00	\$2,000.00	\$2,000.00	\$2,000.00	\$0.00
698.12	FIELD OFFICE TYPE B	MON	18.00	\$2,200.00	\$39,600.00	\$2,500.00	\$45,000.00	(\$5,400.00)
699.	MISCELLANEOUS TEMPORARY EROSION AND SEDIMENT CONTROL	\$	10,000.00	\$1.00	\$10,000.00	\$1.00	\$10,000.00	\$0.00
1002.1	REPAIRS OR REPLACEMENTS AS NEEDED - BRIDGE STRUCTURES	\$	25,000.00	\$1.00	\$25,000.00	\$1.00	\$25,000.00	\$0.00
1008.22	ALTERATIONS AND ADDITIONS AS NEEDED - TRAFFIC SIGNALS	\$	30,000.00	\$1.00	\$30,000.00	\$1.00	\$30,000.00	\$0.00
1010.15	FUEL ADJUSTMENT	\$	41,000.00	\$1.00	\$41,000.00	\$1.00	\$41,000.00	\$0.00
1010.2	ASPHALT CEMENT ADJUSTMENT	\$	10,000.00	\$1.00	\$10,000.00	\$1.00	\$10,000.00	\$0.00
1010.3	QUALITY CONTROL QUALITY ASSURANCE (QC/QA) ASPHALT	\$	13,600.00	\$1.00	\$13,600.00	\$1.00	\$13,600.00	\$0.00
1010.5	COMPLETION INCENTIVE/ DISINCENTIVE	\$	120,000.00	\$1.00	\$120,000.00	\$1.00	\$120,000.00	\$0.00

**Total:**

\$4,648,329.50

\$4,546,093.60

\$102,235.90



# CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)  
7/9/2018

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

<b>PRODUCER</b> THE ROWLEY AGENCY INC. 139 Loudon Road P.O. Box 511 Concord NH 03302-0511		<b>CONTACT NAME:</b> Christine Holman, CPCU, CIC <b>PHONE (A/C No. Ext):</b> (603) 224-2562 <b>FAX (A/C No.):</b> (603) 224-8012 <b>E-MAIL ADDRESS:</b> cholman@rowleyagency.com	
<b>INSURED</b> R.S. Audley, Inc. 1113 Route 3-A Bow NH 03304		<b>INSURER(S) AFFORDING COVERAGE</b> <b>INSURER A:</b> Travelers <b>NAIC #</b> 28188 <b>INSURER B:</b> Crum & Forster <b>INSURER C:</b> <b>INSURER D:</b> <b>INSURER E:</b> <b>INSURER F:</b>	

COVERAGES CERTIFICATE NUMBER: 18-19 all lines REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSR	SUBR WYD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	GENERAL LIABILITY <input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR <input checked="" type="checkbox"/> CG0001 GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input checked="" type="checkbox"/> LOC			VTNCO2398A78A-PHX-18	1/1/2018	1/1/2019	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 100,000 MED EXP (Any one person) \$ 5,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COMP/OP AGG \$ 2,000,000
A	AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> HIRED AUTOS <input type="checkbox"/> NON-OWNED AUTOS			VTOCAP2398A791-COF-18	1/1/2018	1/1/2019	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ Medical payments \$ 2,000
A	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED <input checked="" type="checkbox"/> RETENTION \$ 10,000			VTSMJCP2398A809-TIL-18	1/1/2018	1/1/2019	EACH OCCURRENCE \$ 10,000,000 AGGREGATE \$ 10,000,000
A	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N	N/A	3A States: NH, ME VTRKUB-2398A77-8-18 USL&H Coverage applies	1/1/2018	1/1/2019	<input checked="" type="checkbox"/> WC STATU-TORY LIMITS <input type="checkbox"/> OTH-ER E.L. EACH ACCIDENT \$ 500,000 E.L. DISEASE - EA EMPLOYEE \$ 500,000 E.L. DISEASE - POLICY LIMIT \$ 500,000
A	Leased/Rented			QT-660-3082B427-COF-18	1/1/2018	1/1/2019	Limit 775,000
B	Pollution			PXC100765	2/18/2018	2/18/2019	Per Claim/Aggregate 2,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, if more space is required)  
#X-A004(475 - Bridge Preservation efforts for the bridges carrying I-293 EB & WB over Merrimack River. State of NH Dept of Transportation is included as an additional insured with respect to all liability policies except Workers Compensation when required by written contract.

<b>CERTIFICATE HOLDER</b>  State of New Hampshire Dept of Transportation PO Box 483 Concord, NH 03302-0483	<b>CANCELLATION</b>  SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.  AUTHORIZED REPRESENTATIVE  C Holman, CPCU, CIC/C <i>Christine Holman</i>
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# CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)  
7/9/2018

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<b>PRODUCER</b> THE ROWLEY AGENCY INC. 45 Constitution Avenue P.O. Box 511 Concord NH 03302-0511	<b>CONTACT NAME:</b> Christine Holman, CPCU, CIC	
	<b>PHONE (A/C, No, Ext):</b> (603) 224-2562	<b>FAX (A/C, No):</b> (603) 224-8012
<b>E-MAIL ADDRESS:</b> cholman@rowleyagency.com		
<b>INSURER(S) AFFORDING COVERAGE</b>		<b>NAIC #</b>
<b>INSURER A:</b> Travelers		28188
<b>INSURER B:</b>		
<b>INSURER C:</b>		
<b>INSURER D:</b>		
<b>INSURER E:</b>		
<b>INSURER F:</b>		

**COVERAGES**      **CERTIFICATE NUMBER:** OCP - Bedford/Manc      **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDITIONAL INSURED	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR <input checked="" type="checkbox"/> Owners & Contractors  GEN'L AGGREGATE LIMIT APPLIES PER: <input checked="" type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC OTHER:		OCP070918	7/9/2018	7/9/2019	EACH OCCURRENCE \$ 2,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ MED EXP (Any one person) \$ PERSONAL & ADV INJURY \$ GENERAL AGGREGATE \$ 3,000,000 PRODUCTS - COMP/OP AGG \$ \$
	AUTOMOBILE LIABILITY <input type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> HIRED AUTOS <input type="checkbox"/> NON-OWNED AUTOS					COMBINED SINGLE LIMIT (Ea accident) \$ BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ \$
	UMBRELLA LIAB <input type="checkbox"/> OCCUR EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED   RETENTION \$					EACH OCCURRENCE \$ AGGREGATE \$ \$
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) if yes, describe under DESCRIPTION OF OPERATIONS below	Y/N	N/A			PER STATUTE   OTH-ER E.L. EACH ACCIDENT \$ E.L. DISEASE - EA EMPLOYEE \$ E.L. DISEASE - POLICY LIMIT \$

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)  
 Bridge Preservation efforts for the bridges carrying I-293 EB & WB over Merrimack River X-A004 (475)

<b>CERTIFICATE HOLDER</b>  State of New Hampshire Department of Transportation PO Box 483 Concord, NH 03302	<b>CANCELLATION</b>  SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.
	<b>AUTHORIZED REPRESENTATIVE</b>  C Holman, CPCU, CIC/C <i>Christine Holman</i>



# CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

7/11/2018

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<b>PRODUCER</b> THE ROWLEY AGENCY INC. 45 Constitution Avenue P.O. Box 511 Concord NH 03302-0511	<b>CONTACT NAME:</b> Christine Holman, CPCU, CIC <b>PHONE (A/C No. Ext):</b> (603) 224-2562 <b>FAX (A/C No.):</b> (603) 224-8012 <b>E-MAIL ADDRESS:</b> cholman@rowleyagency.com													
	<table border="1"> <tr> <th>INSURER(S) AFFORDING COVERAGE</th> <th>NAIC #</th> </tr> <tr> <td>INSURER A: Travelers</td> <td>28188</td> </tr> <tr> <td>INSURER B:</td> <td></td> </tr> <tr> <td>INSURER C:</td> <td></td> </tr> <tr> <td>INSURER D:</td> <td></td> </tr> <tr> <td>INSURER E:</td> <td></td> </tr> <tr> <td>INSURER F:</td> <td></td> </tr> </table>	INSURER(S) AFFORDING COVERAGE	NAIC #	INSURER A: Travelers	28188	INSURER B:		INSURER C:		INSURER D:		INSURER E:		INSURER F:
INSURER(S) AFFORDING COVERAGE	NAIC #													
INSURER A: Travelers	28188													
INSURER B:														
INSURER C:														
INSURER D:														
INSURER E:														
INSURER F:														
<b>INSURED</b> Pan Am Systems 1700 Iron Horse Park North Billerica MA 01862														

**COVERAGES**      **CERTIFICATE NUMBER:** RRP - Manchester/Bed      **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR <input checked="" type="checkbox"/> Railroad Protective GENL AGGREGATE LIMIT APPLIES PER: <input checked="" type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC OTHER:			RRP070918	7/9/2018	7/9/2019	EACH OCCURRENCE \$ 2,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ MED EXP (Any one person) \$ PERSONAL & ADV INJURY \$ GENERAL AGGREGATE \$ 6,000,000 PRODUCTS - COMP/OP AGG \$ \$ \$
	AUTOMOBILE LIABILITY <input type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> HIRED AUTOS <input type="checkbox"/> NON-OWNED AUTOS						COMBINED SINGLE LIMIT (Ea accident) \$ BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ \$
	UMBRELLA LIAB <input type="checkbox"/> OCCUR EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED    RETENTION \$						EACH OCCURRENCE \$ AGGREGATE \$ \$
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below		Y/N	N/A			PER STATUTE    OTH-ER E.L. EACH ACCIDENT \$ E.L. DISEASE - EA EMPLOYEE \$ E.L. DISEASE - POLICY LIMIT \$

**DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)**  
 Bridge Preservation efforts for the bridges carrying I-293 EB & WB over Merrimack River X-A004 (475)

<b>CERTIFICATE HOLDER</b> Pan Am Systems 1700 Iron Horse Park North Billerica, MA 01862	<b>CANCELLATION</b> SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. AUTHORIZED REPRESENTATIVE C Holman, CPCU, CIC/C <i>Christine Holman</i>
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