

deficient bridges since 2015 and is included in the Scour Critical Plan of Action. The bridge rehabilitation work includes: replacement of the superstructure (girders and concrete bridge deck), pavement, waterproofing membrane; replacement of the expansion joints; replacement of the bridge and approach railing; reconstruction of the backwalls to allow for modern beam seat depth; and partially grouted rip-rap at the piers for scour protection. The existing bridge, built in 1956, is 152' long, 3-span with a non-composite 6½ inch thick concrete deck supported by four 33WF130 rolled steel beams. The bridge was constructed as simply supported for dead load and made continuous for live load by welding the girders together over the piers after the deck was placed. Roadway work involves milling and bituminous overlay of approximately 130 feet of NH 113A north of the bridge and 130 feet of NH 113A south of the bridge. This bridge rehabilitation project will remove the bridge from the Red List, remove the scour critical classification, and extend its service life.

The proposed contingency amount is 10% of the contract amount. The following factors involve higher risks that can potentially increase costs: inability to inspect some areas of the bridge prior to removal of the bridge deck and limited bridge closure time.

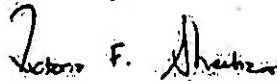
The Contractor has been prequalified by this Department. The Contract has been approved by the Attorney General as to form and execution, and the Department has certified that the necessary funds are available, and the bid reasonably conforms to the engineer's estimate in accordance with State procedure. 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 (Tier 3 & 4 Bridge Rehabilitation & Reconstruction (Bridg-T3-4-Rehab-Rcn)), with anticipated utilization of Turnpike Toll Credits for the State's 20% match, 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.

Your approval of this resolution is respectfully requested.

Sincerely,



Victoria F. Sheehan
Commissioner

VFS/pcj

Department Estimate: \$2,894,184.00
Contract Amount: \$2,612,953.90
Under Estimate: \$ 281,230.10
Attachments



ABC Bid Data

TAMWORTH
41434
X-A004(636)

PROJECT:	TAMWORTH	Awarded To:	PIPER, R. M. INC.	Certified by:	<u>PETER E. STAMNAS</u>
STATE PROJECT NUMBER:	41434		PO BOX 490		Director of Project Development
FED. PROJECT NUMBER:	X-A004(636)		PLYMOUTH, NH 03264		
DATE BIDS OPEN:	October 27, 2022, 2:00	Amount:	\$2,612,953.90	Award Date:	
SCOPE OF WORK:	Address Red List bridge carrying NH 113A over Swift River in the Town of Tamworth (061/091)				
COMPLETION DATE:	November 03, 2023				
LOCATION:	District 3, Carroll				

Summary of Bidders

Contractor	Bid Amount	Rank
PIPER, R. M. INC. PO BOX 490, PLYMOUTH NH 03264	\$2,612,953.90	A
SWETT, E. D. INC. 8 INDUSTRIAL PARK DR, CONCORD NH 03301-8512	\$3,420,698.45	B

Item No.	Description	Unit	Quantity	P&E		PIPER, R. M. INC. PO BOX 480 PLYMOUTH, NH 03284		SWETT, E. D. INC. 8 INDUSTRIAL PARK DR CONCORD, NH 03301-8512	
				Unit Price	Total	Unit Price	Total	Unit Price	Total

Items

202.7	REMOVAL OF GUARDRAIL	LF	120.00	\$5.00	\$600.00	\$4.00	\$480.00	\$5.00	\$600.00
203.5525	PORTABLE CHANGEABLE MESSAGE SIGN PLATFORM	U	8.00	\$1,400.00	\$8,400.00	\$950.00	\$5,700.00	\$2,000.00	\$12,000.00
203.5561	EAGRT PLATFORM PREFERRED	U	1.00	\$2,000.00	\$2,000.00	\$1,450.00	\$1,450.00	\$2,000.00	\$2,000.00
203.5571	EAGRT PLATFORM PREFERRED, TL 2 - 25'	U	2.00	\$2,000.00	\$4,000.00	\$1,450.00	\$2,900.00	\$2,250.00	\$4,500.00
207.3	UNCLASSIFIED CHANNEL EXCAVATION	CY	60.00	\$60.00	\$3,600.00	\$50.00	\$3,000.00	\$100.00	\$6,000.00
209.201	GRANULAR BACKFILL (BRIDGE) (F)	CY	80.00	\$75.00	\$6,000.00	\$100.00	\$8,000.00	\$80.00	\$6,400.00
304.32	CRUSHED GRAVEL FOR SHOULDER LEVELING	TON	3.00	\$150.00	\$450.00	\$50.00	\$150.00	\$200.00	\$600.00
304.6	CRUSHED STONE (VERY COARSE)	CY	6.00	\$100.00	\$600.00	\$50.00	\$300.00	\$150.00	\$900.00
403.11043	HBP-1/2" SURFACE MDX, MACHINE METHOD	TON	90.00	\$160.00	\$14,400.00	\$240.00	\$21,600.00	\$210.00	\$18,900.00
403.12	HBP-HAND METHOD	TON	40.00	\$240.00	\$9,600.00	\$300.00	\$12,000.00	\$260.00	\$10,400.00
403.16	PAVEMENT JOINT ADHESIVE	LF	270.00	\$7.00	\$1,890.00	\$5.00	\$1,350.00	\$5.00	\$1,350.00
410.22	ASPHALT EMULSION FOR TACK COAT	GAL	69.00	\$25.00	\$1,475.00	\$25.00	\$1,475.00	\$20.00	\$1,180.00
417.	COLD PLANING BITUMINOUS SURFACES	SY	740.00	\$6.00	\$4,440.00	\$10.00	\$7,400.00	\$10.00	\$7,400.00
500.02	ACCESS FOR BRIDGE CONSTRUCTION	U	1.00	\$100,000.00	\$100,000.00	\$42,500.00	\$42,500.00	\$410,000.00	\$410,000.00
502.	REMOVAL OF EXISTING BRIDGE STRUCTURE	U	1.00	\$270,000.00	\$270,000.00	\$435,000.00	\$435,000.00	\$315,000.00	\$315,000.00
502.10121	REMOVAL AND DISPOSAL OF EXISTING BRIDGE STRUCTURE (ACM - BACKWALL)	SY	6.00	\$1,000.00	\$5,000.00	\$4,850.00	\$24,250.00	\$10,000.00	\$50,000.00
503.201	COFFERDAMS	U	1.00	\$75,000.00	\$75,000.00	\$5,000.00	\$5,000.00	\$70,000.00	\$70,000.00
503.202	COFFERDAMS	U	1.00	\$75,000.00	\$75,000.00	\$5,000.00	\$5,000.00	\$70,000.00	\$70,000.00
504.1	COMMON BRIDGE EXCAVATION (F)	CY	100.00	\$75.00	\$7,500.00	\$50.00	\$5,000.00	\$75.00	\$7,500.00
508.	STRUCTURAL FILL	CY	20.00	\$80.00	\$1,600.00	\$75.00	\$1,500.00	\$80.00	\$1,600.00
520.0106	CONCRETE CLASS AA, HIGH EARLY STRENGTH	CY	10.00	\$2,500.00	\$25,000.00	\$2,500.00	\$25,000.00	\$4,000.00	\$40,000.00
520.7002	CONCRETE BRIDGE DECK (QC/QA) (F)	CY	122.00	\$2,000.00	\$244,000.00	\$1,800.00	\$219,600.00	\$2,050.00	\$250,100.00
628.51	PRESTRESSED CONCRETE DECK PANELS (F)	SF	2,844.00	\$40.00	\$113,760.00	\$38.00	\$108,072.00	\$35.00	\$99,540.00
529.1	PRECAST CONCRETE SUBSTRUCTURE, ABUTMENT	CY	55.00	\$2,500.00	\$137,500.00	\$3,750.00	\$206,250.00	\$5,000.00	\$275,000.00

Item No.	Description	Unit	Quantity	P&E		PPER, R. M. INC. PO BOX 490 PLYMOUTH, NH 03284		SWETT, E. D. INC. 8 INDUSTRIAL PARK DR CONCORD, NH 03301-8512	
				Unit Price	Total	Unit Price	Total	Unit Price	Total
534.3	WATER REPELLENT (SILANE/SILOXANE)	GAL	55.00	\$125.00	\$6,875.00	\$100.00	\$5,500.00	\$125.00	\$6,875.00
538.2	BARRIER MEMBRANE, PEEL AND STICK - VERTICAL SURFACES (F)	SY	53.00	\$80.00	\$4,240.00	\$80.00	\$4,240.00	\$75.00	\$3,975.00
541.5	PVC WATERSTOPS, NH TYPE 5 (F)	LF	67.00	\$20.00	\$1,340.00	\$14.00	\$938.00	\$12.00	\$804.00
544.2	REINFORCING STEEL, EPOXY COATED (F)	LB	969.00	\$5.00	\$4,845.00	\$2.50	\$2,422.50	\$12.00	\$11,628.00
544.43	REINFORCING STEEL - CONTINUOUSLY GALVANIZED (F)	LB	11,406.00	\$5.00	\$57,030.00	\$4.00	\$45,624.00	\$3.45	\$39,350.70
544.811	GFRP REINFORCEMENT (F)	LF	24,253.00	\$5.00	\$121,265.00	\$4.80	\$116,414.40	\$3.95	\$95,799.35
547.	SHEAR CONNECTORS (F)	EA	2,700.00	\$10.00	\$27,000.00	\$10.00	\$27,000.00	\$9.50	\$25,650.00
548.21	ELASTOMERIC BEARING ASSEMBLIES (F)	EA	8.00	\$4,500.00	\$36,000.00	\$4,500.00	\$36,000.00	\$5,000.00	\$40,000.00
548.22	ELASTOMERIC BEARING ASSEMBLIES (F)	EA	4.00	\$4,500.00	\$18,000.00	\$4,500.00	\$18,000.00	\$6,000.00	\$24,000.00
548.23	ELASTOMERIC BEARING ASSEMBLIES (F)	EA	4.00	\$4,500.00	\$18,000.00	\$4,500.00	\$18,000.00	\$7,000.00	\$28,000.00
550.1	STRUCTURAL STEEL (F)	LB	97,998.00	\$5.00	\$489,990.00	\$5.00	\$489,990.00	\$4.55	\$445,890.90
559.4	ASPHALTIC PLUG EXPANSION JOINT (F)	LF	29.00	\$175.00	\$5,075.00	\$170.00	\$4,930.00	\$190.00	\$5,510.00
561.10	PREFABRICATED STRIP SEAL EXPANSION JOINT (F)	LF	34.00	\$1,100.00	\$37,400.00	\$1,100.00	\$37,400.00	\$1,450.00	\$49,300.00
562.1	SILICONE JOINT SEALANT (F)	LF	13.00	\$35.00	\$455.00	\$30.00	\$390.00	\$12.00	\$156.00
563.23	BRIDGE RAIL T3	LF	322.00	\$350.00	\$112,700.00	\$325.00	\$104,650.00	\$285.00	\$91,770.00
565.2301	BRIDGE APPROACH RAIL T3 (FULL HEIGHT)	LF	23.00	\$800.00	\$18,400.00	\$450.00	\$10,350.00	\$395.00	\$9,085.00
565.232	BRIDGE APPROACH RAIL T3 (STEEL POSTS)	U	3.00	\$12,500.00	\$37,500.00	\$12,000.00	\$36,000.00	\$10,750.00	\$32,250.00
563.0505	PARTIALLY GROUTED RIP RAP, 12 INCH	CY	60.00	\$300.00	\$18,000.00	\$260.00	\$15,600.00	\$750.00	\$45,000.00
585.3	STONE FILL, CLASS C	CY	28.00	\$85.00	\$2,380.00	\$50.00	\$1,400.00	\$75.00	\$2,100.00
593.421	GEOTEXTILE; PERM CONTROL CL.2, NON-WOVEN	SY	87.00	\$7.00	\$609.00	\$4.00	\$348.00	\$8.00	\$696.00
603.34112	12" STEEL END SECTIONS	EA	1.00	\$475.00	\$475.00	\$725.00	\$725.00	\$500.00	\$500.00
603.40012	12" PIPE FOR SLOPE DRAINAGE	LF	55.00	\$90.00	\$4,950.00	\$80.00	\$3,300.00	\$75.00	\$4,125.00
604.224	DROP INLETS TYPE B, 4-FOOT DIAMETER	U	1.00	\$3,000.00	\$3,000.00	\$2,400.00	\$2,400.00	\$3,500.00	\$3,500.00
605.906	6" PIPE UNDERDRAIN (CONTRACTORS OPTION)	LF	130.00	\$60.00	\$7,800.00	\$45.00	\$5,850.00	\$100.00	\$13,000.00
606.1255	BEAM GUARDRAIL (TERMINAL UNIT TYPE EAGRT, TL 2) (STEEL POST)	U	1.00	\$5,500.00	\$5,500.00	\$5,000.00	\$5,000.00	\$4,500.00	\$4,500.00
606.12551	BEAM GUARDRAIL (TERMINAL UNIT TYPE EAGRT, TL 2 - 25') (STEEL POST)	U	2.00	\$4,500.00	\$9,000.00	\$4,600.00	\$9,200.00	\$4,200.00	\$8,400.00

Item No.	Description	Unit	Quantity	PS&E		PIPER, R. M. INC. PO BOX 480 PLYMOUTH, NH 03264		SWETT, E. D. INC. 8 INDUSTRIAL PARK DR CONCORD, NH 03301-8512	
				Unit Price	Total	Unit Price	Total	Unit Price	Total
606.18001	31" W-BEAM GUARDRAIL WITH 8" OFFSET BLOCK (STEEL POST)	LF	13.00	\$60.00	\$780.00	\$55.00	\$715.00	\$45.00	\$585.00
609.01	STRAIGHT GRANITE CURB	LF	107.00	\$75.00	\$8,025.00	\$65.00	\$6,955.00	\$50.00	\$5,350.00
618.61	UNIFORMED OFFICERS WITH VEHICLE	\$	10,000.00	\$1.00	\$10,000.00	\$1.00	\$10,000.00	\$1.00	\$10,000.00
618.7	FLAGGERS	HR	800.00	\$41.00	\$32,800.00	\$55.00	\$44,000.00	\$55.00	\$44,000.00
619.1	MAINTENANCE OF TRAFFIC	U	1.00	\$100,000.00	\$100,000.00	\$125,000.00	\$125,000.00	\$89,000.00	\$89,000.00
619.25	PORTABLE CHANGEABLE MESSAGE SIGN	U	6.00	\$4,800.00	\$28,800.00	\$7,500.00	\$45,000.00	\$5,000.00	\$30,000.00
621.31	SINGLE DELINEATOR WITH POST	EA	5.00	\$85.00	\$425.00	\$65.00	\$325.00	\$55.00	\$275.00
621.32	DOUBLE DELINEATOR WITH POST	EA	2.00	\$80.00	\$160.00	\$75.00	\$150.00	\$60.00	\$120.00
628.2	SAWED BITUMINOUS PAVEMENT	LF	50.00	\$10.00	\$500.00	\$3.00	\$150.00	\$8.00	\$400.00
628.5	DIAMOND GRINDING CONCRETE PAVEMENT	SY	370.00	\$100.00	\$37,000.00	\$36.00	\$13,320.00	\$65.00	\$24,050.00
632.0104	RETROREFLECTIVE PAINT PAVE. MARKING, 4" LINE	LF	3,400.00	\$1.00	\$3,400.00	\$1.10	\$3,740.00	\$1.50	\$5,100.00
645.42	TEMPORARY SLOPE MATTING TYPE B (WILDLIFE FRIENDLY)	SY	375.00	\$4.00	\$1,500.00	\$7.00	\$2,625.00	\$4.00	\$1,500.00
645.512	COMPOST SOCK FOR PERIMETER BERM	LF	500.00	\$8.00	\$4,000.00	\$7.25	\$3,625.00	\$8.00	\$4,000.00
645.531	SILT FENCE	LF	500.00	\$5.00	\$2,500.00	\$3.50	\$1,750.00	\$8.00	\$3,000.00
645.7	STORM WATER POLLUTION PREVENTION PLAN	U	1.00	\$15,000.00	\$15,000.00	\$8,500.00	\$8,500.00	\$4,000.00	\$4,000.00
645.71	MONITORING SWPPP AND EROSION AND SEDIMENT CONTROLS	HR	160.00	\$150.00	\$24,000.00	\$180.00	\$28,800.00	\$175.00	\$28,000.00
645.72	FINAL WETLAND IMPACT REPORT	U	1.00	\$15,000.00	\$15,000.00	\$4,250.00	\$4,250.00	\$2,000.00	\$2,000.00
646.41	TURF ESTABLISHMENT WITH MULCH, TACKIFIERS AND HUMUS	SY	430.00	\$15.00	\$6,450.00	\$10.00	\$4,300.00	\$3.45	\$1,483.50
650.2	LANDSCAPING	U	1.00	\$15,000.00	\$15,000.00	\$8,000.00	\$8,000.00	\$9,500.00	\$9,500.00
692.	MOBILIZATION	U	2.00	\$135,000.00	\$270,000.00	\$5,000.00	\$10,000.00	\$168,750.00	\$337,500.00
698.13	FIELD OFFICE TYPE C	MON	11.00	\$2,200.00	\$24,200.00	\$1,100.00	\$12,100.00	\$3,000.00	\$33,000.00
699.	MISCELLANEOUS TEMPORARY EROSION AND SEDIMENT CONTROL	\$	30,000.00	\$1.00	\$30,000.00	\$1.00	\$30,000.00	\$1.00	\$30,000.00
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
1010.01	STEEL COST ADJUSTMENT	\$	15,000.00	\$1.00	\$15,000.00	\$1.00	\$15,000.00	\$1.00	\$15,000.00
1010.15	FUEL ADJUSTMENT	\$	20,000.00	\$1.00	\$20,000.00	\$1.00	\$20,000.00	\$1.00	\$20,000.00
1010.41	QUALITY CONTROL QUALITY ASSURANCE (QC/QA) FOR CONCRETE	\$	20,000.00	\$1.00	\$20,000.00	\$1.00	\$20,000.00	\$1.00	\$20,000.00

ABC Bid Data

TAMWORTH
 41434
 X-A004(636)

Item No.	Description	Unit	Quantity	PS&E		PIPER, R. M. INC. PO BOX 490 PLYMOUTH, NH 03284		SWETT, E. D. INC. 8 INDUSTRIAL PARK DR CONCORD, NH 03301-4512	
				Unit Price	Total	Unit Price	Total	Unit Price	Total
1010.5	COMPLETION INCENTIVE/ DISINCENTIVE	\$	25,000.00	\$1.00	\$25,000.00	\$1.00	\$25,000.00	\$1.00	\$25,000.00
Totals:					\$2,894,184.00		\$2,612,953.90		\$3,420,698.45
Alt. Totals:									
Totals:					\$2,894,184.00		\$2,612,953.90		\$3,420,698.45

PS&E Comparison

TAMWORTH
 41434
 X-A004(636)

Item No.	Description	Unit	Quantity	A-Bidder		PS&E		A-PS&E Difference
				Unit Price	Total	-Unit Price	Total	
Items								
202.7	REMOVAL OF GUARDRAIL	LF	120.00	\$4.00	\$480.00	\$5.00	\$600.00	(\$120.00)
203.5525	PORTABLE CHANGEABLE MESSAGE SIGN PLATFORM	U	6.00	\$950.00	\$5,700.00	\$1,400.00	\$8,400.00	(\$2,700.00)
203.5561	EAGRT PLATFORM PREFERRED	U	1.00	\$1,450.00	\$1,450.00	\$2,000.00	\$2,000.00	(\$550.00)
203.5571	EAGRT PLATFORM PREFERRED, TL 2 - 25'	U	2.00	\$1,450.00	\$2,900.00	\$2,000.00	\$4,000.00	(\$1,100.00)
207.3	UNCLASSIFIED CHANNEL EXCAVATION	CY	60.00	\$50.00	\$3,000.00	\$60.00	\$3,600.00	(\$600.00)
209.201	GRANULAR BACKFILL (BRIDGE) (F)	CY	80.00	\$100.00	\$8,000.00	\$75.00	\$6,000.00	\$2,000.00
304.32	CRUSHED GRAVEL FOR SHOULDER LEVELING	TON	3.00	\$50.00	\$150.00	\$150.00	\$450.00	(\$300.00)
304.6	CRUSHED STONE (VERY COARSE)	CY	6.00	\$50.00	\$300.00	\$100.00	\$600.00	(\$300.00)
403.11043	HBP-1/2" SURFACE MIX, MACHINE METHOD	TON	90.00	\$240.00	\$21,600.00	\$160.00	\$14,400.00	\$7,200.00
403.12	HBP-HAND METHOD	TON	40.00	\$300.00	\$12,000.00	\$240.00	\$9,600.00	\$2,400.00
403.16	PAVEMENT JOINT ADHESIVE	LF	270.00	\$5.00	\$1,350.00	\$7.00	\$1,890.00	(\$540.00)
410.22	ASPHALT EMULSION FOR TACK COAT	GAL	59.00	\$25.00	\$1,475.00	\$25.00	\$1,475.00	\$0.00
417.	COLD PLANING BITUMINOUS SURFACES	SY	740.00	\$10.00	\$7,400.00	\$6.00	\$4,440.00	\$2,960.00
500.02	ACCESS FOR BRIDGE CONSTRUCTION	U	1.00	\$42,500.00	\$42,500.00	\$100,000.00	\$100,000.00	(\$57,500.00)
502.	REMOVAL OF EXISTING BRIDGE STRUCTURE	U	1.00	\$435,000.00	\$435,000.00	\$270,000.00	\$270,000.00	\$165,000.00

PS&E Comparison

TAMWORTH

41434

X-A004(636)

Item No.	Description	Unit	Quantity	A-Bidder		PS&E		A-PS&E Difference
				Unit Price	Total	Unit Price	Total	
502.10121	REMOVAL AND DISPOSAL OF EXISTING BRIDGE STRUCTURE (ACM - BACKWALL)	SY	5.00	\$4,850.00	\$24,250.00	\$1,000.00	\$5,000.00	\$19,250.00
503.201	COFFERDAMS	U	1.00	\$5,000.00	\$5,000.00	\$75,000.00	\$75,000.00	(\$70,000.00)
503.202	COFFERDAMS	U	1.00	\$5,000.00	\$5,000.00	\$75,000.00	\$75,000.00	(\$70,000.00)
504.1	COMMON BRIDGE EXCAVATION (F)	CY	100.00	\$50.00	\$5,000.00	\$75.00	\$7,500.00	(\$2,500.00)
508.	STRUCTURAL FILL	CY	20.00	\$75.00	\$1,500.00	\$80.00	\$1,600.00	(\$100.00)
520.0106	CONCRETE CLASS AA, HIGH EARLY STRENGTH	CY	10.00	\$2,500.00	\$25,000.00	\$2,500.00	\$25,000.00	\$0.00
520.7002	CONCRETE BRIDGE DECK (QC/QA) (F)	CY	122.00	\$1,800.00	\$219,600.00	\$2,000.00	\$244,000.00	(\$24,400.00)
528.51	PRESTRESSED CONCRETE DECK PANELS (F)	SF	2,844.00	\$38.00	\$108,072.00	\$40.00	\$113,760.00	(\$5,688.00)
529.1	PRECAST CONCRETE SUBSTRUCTURE, ABUTMENT	CY	55.00	\$3,750.00	\$206,250.00	\$2,500.00	\$137,500.00	\$68,750.00
534.3	WATER REPELLENT (SILANE/SILOXANE)	GAL	55.00	\$100.00	\$5,500.00	\$125.00	\$6,875.00	(\$1,375.00)
538.2	BARRIER MEMBRANE, PEEL AND STICK - VERTICAL SURFACES (F)	SY	53.00	\$80.00	\$4,240.00	\$80.00	\$4,240.00	\$0.00
541.5	PVC WATERSTOPS, NH TYPE 5 (F)	LF	67.00	\$14.00	\$938.00	\$20.00	\$1,340.00	(\$402.00)
544.2	REINFORCING STEEL, EPOXY COATED (F)	LB	969.00	\$2.50	\$2,422.50	\$5.00	\$4,845.00	(\$2,422.50)
544.43	REINFORCING STEEL - CONTINUOUSLY GALVANIZED (F)	LB	11,406.00	\$4.00	\$45,624.00	\$5.00	\$57,030.00	(\$11,406.00)
544.811	GFRP REINFORCEMENT (F)	LF	24,253.00	\$4.80	\$116,414.40	\$5.00	\$121,265.00	(\$4,850.60)
547.	SHEAR CONNECTORS (F)	EA	2,700.00	\$10.00	\$27,000.00	\$10.00	\$27,000.00	\$0.00

PS&E Comparison

TAMWORTH

41434

X-A004(636)

Item No.	Description	Unit	Quantity	A-Bidder		PS&E		A-PS&E Difference
				Unit Price	Total	Unit Price	Total	
548.21	ELASTOMERIC BEARING ASSEMBLIES (F)	EA	8.00	\$4,500.00	\$36,000.00	\$4,500.00	\$36,000.00	\$0.00
548.22	ELASTOMERIC BEARING ASSEMBLIES (F)	EA	4.00	\$4,500.00	\$18,000.00	\$4,500.00	\$18,000.00	\$0.00
548.23	ELASTOMERIC BEARING ASSEMBLIES (F)	EA	4.00	\$4,500.00	\$18,000.00	\$4,500.00	\$18,000.00	\$0.00
550.1	STRUCTURAL STEEL (F)	LB	97,998.00	\$5.00	\$489,990.00	\$5.00	\$489,990.00	\$0.00
559.4	ASPHALTIC PLUG EXPANSION JOINT (F)	LF	29.00	\$170.00	\$4,930.00	\$175.00	\$5,075.00	(\$145.00)
561.10	PREFABRICATED STRIP SEAL EXPANSION JOINT (F)	LF	34.00	\$1,100.00	\$37,400.00	\$1,100.00	\$37,400.00	\$0.00
562.1	SILICONE JOINT SEALANT (F)	LF	13.00	\$30.00	\$390.00	\$35.00	\$455.00	(\$65.00)
563.23	BRIDGE RAIL T3	LF	322.00	\$325.00	\$104,650.00	\$350.00	\$112,700.00	(\$8,050.00)
565.2301	BRIDGE APPROACH RAIL T3 (FULL HEIGHT)	LF	23.00	\$450.00	\$10,350.00	\$800.00	\$18,400.00	(\$8,050.00)
565.232	BRIDGE APPROACH RAIL T3 (STEEL POSTS)	U	3.00	\$12,000.00	\$36,000.00	\$12,500.00	\$37,500.00	(\$1,500.00)
583.0505	PARTIALLY.GROUTED RIP RAP, 12 INCH	CY	60.00	\$260.00	\$15,600.00	\$300.00	\$18,000.00	(\$2,400.00)
585.3	STONE FILL, CLASS C	CY	28.00	\$50.00	\$1,400.00	\$85.00	\$2,380.00	(\$980.00)
593.421	GEOTEXTILE; PERM CONTROL CL.2, NON-WOVEN	SY	87.00	\$4.00	\$348.00	\$7.00	\$609.00	(\$261.00)
603.34112	12" STEEL END SECTIONS	EA	1.00	\$725.00	\$725.00	\$475.00	\$475.00	\$250.00
603.40012	12" PIPE FOR SLOPE DRAINAGE	LF	55.00	\$60.00	\$3,300.00	\$90.00	\$4,950.00	(\$1,650.00)
604.224	DROP INLETS TYPE B, 4-FOOT DIAMETER	U	1.00	\$2,400.00	\$2,400.00	\$3,000.00	\$3,000.00	(\$600.00)
605.906	6" PIPE UNDERDRAIN (CONTRACTORS OPTION)	LF	130.00	\$45.00	\$5,850.00	\$60.00	\$7,800.00	(\$1,950.00)

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Item No.	Description	Unit	Quantity	A-Bidder		PS&E		A-PS&E Difference
				Unit Price	Total	Unit Price	Total	
606.1255	BEAM GUARDRAIL (TERMINAL UNIT TYPE EAGRT, TL 2) (STEEL POST)	U	1.00	\$5,000.00	\$5,000.00	\$5,500.00	\$5,500.00	(\$500.00)
606.12551	BEAM GUARDRAIL (TERMINAL UNIT TYPE EAGRT, TL 2 - 25') (STEEL POST)	U	2.00	\$4,600.00	\$9,200.00	\$4,500.00	\$9,000.00	\$200.00
606.18001	31" W-BEAM GUARDRAIL WITH 8" OFFSET BLOCK (STEEL POST)	LF	13.00	\$55.00	\$715.00	\$60.00	\$780.00	(\$65.00)
609.01	STRAIGHT GRANITE CURB	LF	107.00	\$65.00	\$6,955.00	\$75.00	\$8,025.00	(\$1,070.00)
618.61	UNIFORMED OFFICERS WITH VEHICLE	\$	10,000.00	\$1.00	\$10,000.00	\$1.00	\$10,000.00	\$0.00
618.7	FLAGGERS	HR	800.00	\$55.00	\$44,000.00	\$41.00	\$32,800.00	\$11,200.00
619.1	MAINTENANCE OF TRAFFIC	U	1.00	\$125,000.00	\$125,000.00	\$100,000.00	\$100,000.00	\$25,000.00
619.25	PORTABLE CHANGEABLE MESSAGE SIGN	U	6.00	\$7,500.00	\$45,000.00	\$4,800.00	\$28,800.00	\$16,200.00
621.31	SINGLE DELINEATOR WITH POST	EA	5.00	\$65.00	\$325.00	\$85.00	\$425.00	(\$100.00)
621.32	DOUBLE DELINEATOR WITH POST	EA	2.00	\$75.00	\$150.00	\$80.00	\$160.00	(\$10.00)
628.2	SAWED BITUMINOUS PAVEMENT	LF	50.00	\$3.00	\$150.00	\$10.00	\$500.00	(\$350.00)
628.5	DIAMOND GRINDING CONCRETE PAVEMENT	SY	370.00	\$36.00	\$13,320.00	\$100.00	\$37,000.00	(\$23,680.00)
632.0104	RETROREFLECTIVE PAINT PAVE. MARKING, 4" LINE	LF	3,400.00	\$1.10	\$3,740.00	\$1.00	\$3,400.00	\$340.00
645.42	TEMPORARY SLOPE MATTING TYPE B (WILDLIFE FRIENDLY)	SY	375.00	\$7.00	\$2,625.00	\$4.00	\$1,500.00	\$1,125.00
645.512	COMPOST SOCK FOR PERIMETER BERM	LF	500.00	\$7.25	\$3,625.00	\$8.00	\$4,000.00	(\$375.00)
645.531	SILT FENCE	LF	500.00	\$3.50	\$1,750.00	\$5.00	\$2,500.00	(\$750.00)



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41434
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Item No.	Description	Unit	Quantity	A-Bidder		PS&E		A-PS&E Difference
				Unit Price	Total	Unit Price	Total	
645.7	STORM WATER POLLUTION PREVENTION PLAN	U	1.00	\$8,500.00	\$8,500.00	\$15,000.00	\$15,000.00	(\$6,500.00)
645.71	MONITORING SWPPP AND EROSION AND SEDIMENT CONTROLS	HR	160.00	\$180.00	\$28,800.00	\$150.00	\$24,000.00	\$4,800.00
645.72	FINAL WETLAND IMPACT REPORT	U	1.00	\$4,250.00	\$4,250.00	\$15,000.00	\$15,000.00	(\$10,750.00)
646.41	TURF ESTABLISHMENT WITH MULCH, TACKIFIERS AND HUMUS	SY	430.00	\$10.00	\$4,300.00	\$15.00	\$6,450.00	(\$2,150.00)
650.2	LANDSCAPING	U	1.00	\$8,000.00	\$8,000.00	\$15,000.00	\$15,000.00	(\$7,000.00)
692.	MOBILIZATION	U	2.00	\$5,000.00	\$10,000.00	\$135,000.00	\$270,000.00	(\$260,000.00)
698.13	FIELD OFFICE TYPE C	MON	11.00	\$1,100.00	\$12,100.00	\$2,200.00	\$24,200.00	(\$12,100.00)
699.	MISCELLANEOUS TEMPORARY EROSION AND SEDIMENT CONTROL	\$	30,000.00	\$1.00	\$30,000.00	\$1.00	\$30,000.00	\$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
1010.01	STEEL COST ADJUSTMENT	\$	15,000.00	\$1.00	\$15,000.00	\$1.00	\$15,000.00	\$0.00
1010.15	FUEL ADJUSTMENT	\$	20,000.00	\$1.00	\$20,000.00	\$1.00	\$20,000.00	\$0.00
1010.41	QUALITY CONTROL QUALITY ASSURANCE (QC/QA) FOR CONCRETE	\$	20,000.00	\$1.00	\$20,000.00	\$1.00	\$20,000.00	\$0.00
1010.5	COMPLETION INCENTIVE/ DISINCENTIVE	\$	25,000.00	\$1.00	\$25,000.00	\$1.00	\$25,000.00	\$0.00
Total:					\$2,612,953.90		\$2,894,184.00	(\$281,230.10)

September 2, 2022

SUPPLEMENTAL PROJECT INFORMATION SHEET

DESCRIPTION: This project involves the rehabilitation of the State Red List bridge (Br. No. 061/091) that carries NH 113A over Swift River in the Town of Tamworth. The project site is located in the northern portion of the Hemenway State Forest and is approximately 3.3 miles north of the intersection of NH 113 and NH 113A. The work begins on NH 113A approximately 130 feet south of the bridge and continues approximately 415 feet north of the bridge.

FEDERAL FUNDING: 80% (Tier 3 & 4 Bridge Rehabilitation & Reconstruction (Bridg-T3-4-Rehab-Rcn)) utilizing Turnpike Toll Credits as the State's 20% match

CONTINGENCY: The contingency amount is proposed to be 10% of the construction total. The following factors involve higher risks that can potentially increase costs: inability to inspect some areas of the bridge prior to removal of the bridge deck and limited bridge closure time.

PROJECT INITIATED: State's 10-Year Transportation Improvement Plan.

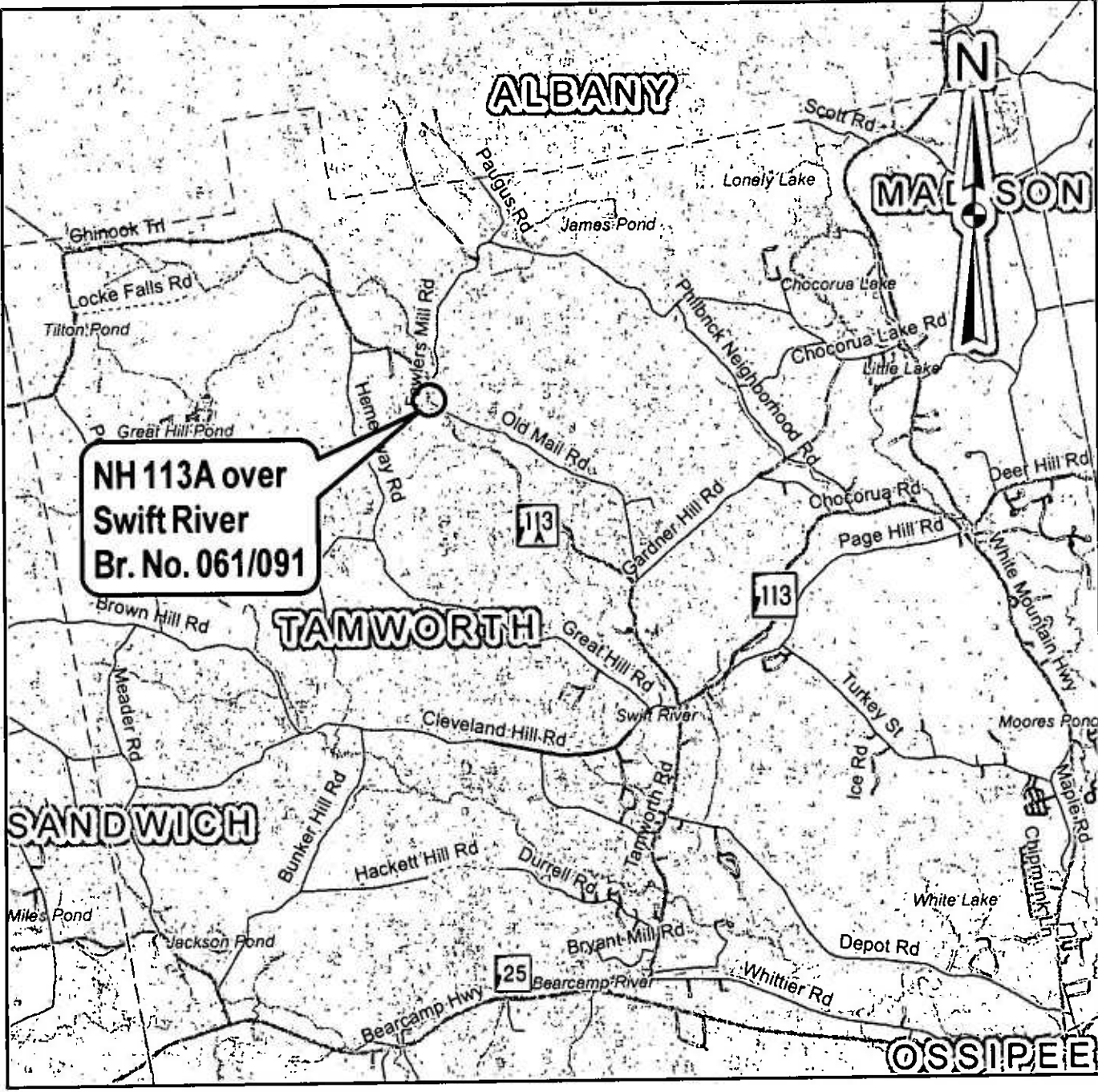
PROJECT EXPLANATION: This project is to address the State Red List bridge and light scour at the piers. The deck has a condition rating of 3 (serious), both the superstructure and substructure have a condition rating of 6 (satisfactory), and it has a scour critical rating of 3 (SC-unstable). The bridge has been on the Department's State Red List of deficient bridges since 2015 and is included in the Scour Critical Plan of Action. The existing bridge, built in 1956, is 152' long, 3 span with a non-composite 6½ inch thick concrete deck supported by four 33WF130 rolled steel beams. The bridge was constructed as simply supported for dead load and made continuous for live load by welding the girders together over the piers after the deck was placed. Roadway work involves milling and bituminous overlay of approximately 130 feet of NH 113A north of the bridge and 130 feet of NH 113A south of the bridge. This bridge rehabilitation project will remove the bridge from the Red List, remove the scour critical classification, and extend its service life.

TRAFFIC IMPLICATION: The majority of the work will be performed during a full roadway closure of up-to 6 weeks, with traffic detoured on State Routes during replacement of the superstructure and backwall. Intermittent flagger-controlled one-lane, alternating two-way, daytime lane closures are anticipated over four-week periods before and after the closure period.

INTERMEDIATE COMPLETION DATE: Part of the Environmental Commitments, all pier scour protection work performed in the Swift River shall be completed by Friday, September 22, 2023. The intermediate completion date for the bridge and road open to traffic is established by adding 42 calendar days to the date when the bridge is closed and traffic was detoured. This date will not be later than the start of school (SAU 9 and SAU 13) for the 2023-2024 school year.

FINAL COMPLETION DATE: November 3, 2023.

Tamworth 41434 - NH 113A



NH 113A over
Swift River
Br. No. 061/091



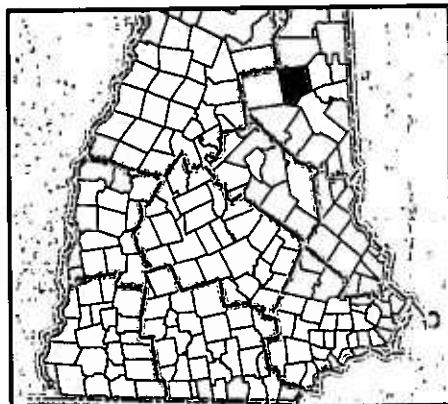
LEGEND

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

New Hampshire
DOT
Department of Transportation

State # 41434
Federal # X-A004 (636)

LOCATION MAP



State of New Hampshire

Department of State

CERTIFICATE

I, David M. Scanlan, Secretary of State of the State of New Hampshire, do hereby certify that R. M. PIPER, INC. is a New Hampshire Profit Corporation registered to transact business in New Hampshire on September 21, 1982. I further certify that all fees and documents required by the Secretary of State's office have been received and is in good standing as far as this office is concerned.

Business ID: 49646

Certificate Number: 0005793093



IN TESTIMONY WHEREOF,
I hereto set my hand and cause to be affixed
the Seal of the State of New Hampshire,
this 17th day of June A.D. 2022.

A handwritten signature in black ink, appearing to read "David M. Scanlan".

David M. Scanlan
Secretary of State

CERTIFICATE OF VOTE

I, Kelsey Slaney Hereby certify that I am duly elected
Secretary of R.M. Piper, Inc.

I hereby certify the following is a true copy of a vote taken at a meeting
of the Board of Directors of the Corporation, duly called and held
on October 28, 2022, at which a quorum of the Board was present
and voting.

VOTED: That Karen L. Prince is duly authorized
to enter into a specific contract namely TAMWORTH X-A004(636) 41434
With State of New Hampshire, and further authorized to
Department of Transportation
execute any documents which may in his judgment be desirable or necessary to effect
the purpose of this vote.

I hereby certify that said vote has not been amended or repealed and remains
in full force and effect as of October 28, 2022, and that
Karen L. Prince is duly elected President of this
Corporation.

DATED: October 28, 2022

ATTEST: Kelsey Slaney (Affix Corp. Seal)
Kelsey Slaney, Secretary

ACORD™

Client#: 1335482 RMPIPER
CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)
10/28/2022

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.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement.

PRODUCER: USI Insurance Solutions, LLC
711 E. Main Street, Suite 201, Chicopee, MA 01020-3600
INSURED: R. M. Piper, Inc., P.O. Box 490, Plymouth, NH 03264-0490
CONTACT NAME, PHONE, FAX, E-MAIL ADDRESS, INSURER(S) AFFORDING COVERAGE, NAIC #

COVERAGES CERTIFICATE NUMBER: 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.

Table with columns: INSR LTR, TYPE OF INSURANCE, ADDL SUBR INSR, WVD, POLICY NUMBER, POLICY EFF (MM/DD/YYYY), POLICY EXP (MM/DD/YYYY), LIMITS. Includes rows for Commercial General Liability, Automobile Liability, Umbrella Liability, and Workers Compensation.

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)
RE: Tamworth X-A004(636), 41434.

CERTIFICATE HOLDER: NH Department of Transportation, Office of Federal Compliance, P.O. Box 483, Concord, NH 03302-0483
CANCELLATION: 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: Todd R.

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CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

10/28/2022

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).

PRODUCER THE ROWLEY AGENCY INC. 45 Constitution Avenue P.O. Box 511 Concord NH 03302-0511	CONTACT NAME: Peggy Johnson PHONE (A/C No. Ext.): (603) 224-2562 FAX (A/C. No.): (603) 224-8012 E-MAIL ADDRESS: pjohnson@rowleyagency.com	
	INSURER(S) AFFORDING COVERAGE	
INSURED State of NH DOT POB 483 Concord NH 03302-0483	INSURER A: Hanover Insurance Co. NAIC # 22292	
	INSURER B:	
	INSURER C:	
	INSURER D:	
	INSURER E:	
	INSURER F:	

COVERAGES **CERTIFICATE NUMBER:** **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"/> Owners & Contractors <input type="checkbox"/> Protective GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC OTHER:			LHVH84796540	11/22/2022	11/22/2023	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						<input type="checkbox"/> PER STATUTE <input type="checkbox"/> 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)
 Tamworth X-A004 (636) 41434
 Contractor: R.M. Piper Inc

CERTIFICATE HOLDER State of NH DOT POB 483 Concord, NH 03302-0483	CANCELLATION 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 Peggy Johnson/PAJ <i>Peggy A Johnson</i>

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