



## THE STATE OF NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION



Victoria F. Sheehan Commissioner William Cass, P.E. Assistant Commissioner

Bureau of Construction February 20, 2020

His Excellency, Governor Christopher T. Sununu and the Honorable Council State House Concord, New Hampshire 0330!

#### REQUESTED ACTION

Authorize the Department of Transportation to enter into a retroactive contract amendment with CPM Constructors, Inc. (Vendor 153179), of Freeport ME by increasing the contract time from October 28, 2016 to June 30, 2020, effective upon Governor and Council approval. Time extension only, no new funding.

#### **EXPLANATION**

This item is **retroactive** because the construction of the bridge was completed in October of 2016. The purpose of this amendment is to essentially re-open the contract to make repairs to the bridge that came up after the project was completed but during the warranty period.

The Keene-Swanzey X-A000(458), 10309P contract was approved by Governor and Council on January 13, 2016 (Item #26 attached) on a basis of a low bid for an original contract encumbrance of \$1,536,742.75. The contract time is proposed to be increased to June 30, 2020 to address the following items:

- 1. The pedestrian bridge was put in service on May 3, 2017. During the final inspection only minor concrete deck shrinkage cracks were visible. All other structural elements were according to plans.
- 2. During the first standard bridge inspection on March 19, 2019, a crack and deflection across a portion of the concrete deck was observed. Additionally, a crack on the northeast corner of abutment B was discovered.
- 3. Several meetings were held between design and construction representative to determine the cause of the cracking/deck failure. Two possible theories discussed were: unanticipated additional settlement in the bridge area that is characterized with wet soils and excessive expansion of the bridge superstructure.
- 4. Ultimately it was impossible to determine the root cause of the cracking/deck failure. The additional time is needed to make the necessary repairs to put the bridge back in service.
- 5. No additional authorization is being requested as part of this request.

Your approval of this resolution is respectfully requested.

Sincerely.

Victoria F. Sheehan Commissioner

Attachments



## THE STATE OF NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION



VICTORIA F. SHEBHAN COMMISSIONER

IVILLIAM CASS, P.B. ASSISTANT COMMISSIONER

Bureau of Construction November 13, 2015

Her Excellency, Governor Margaret Wood Hassan and the Honorable Council State House Concord, New Hampshire 03301

#### REQUESTED-ACTION

1. Authorize the Department of Transportation to enter into a contract with CPM Constructors, Inc. (Vendor 153179) of Freeport, ME on the basis of a low bid of \$1,536,742.75 for construction of a new multi-use trail (MUT) bridge in the City of Keene, from the date of Governor and Council approval through October 28, 2016 unless extended by the Department in accordance with the Standard Specifications. 100% Federal Funds.

Funding is available as follows:

FY 2016

FY 2017

04-96-96-963515-3054

Consolidated Federal Aid

400-500870 Highway Contract Payments

- \$1,000,000.00

\$536,742.75

2. Further authorize that a contingency in the amount of \$76,837.14 be approved for payment of latent conditions, which may appear during the construction of the project. The contingency requested is 5% of the contract amount.

Funding is available as follows:

FY 2016

FY 2017

04-96-96-963515-3054

Consolidated Federal Aid

400-500870 Highway Contract Payments

\$50,000.00

\$26,837.14

#### **EXPLANATION**

This project is part of the State's 10-Year Transportation Improvement Plan. This project consists of the construction of a new multi-use trail (MUT) bridge in the City of Keene. This bridge (Br. No. 128/061) will connect the Ashuelot Rail Trail over NH 12/NH 101 and allow for the safe passage of trail users. The new bridge crossing will be located approximately 1,600 feet east of the Keene roundabout and approximately 2,400 feet west of Main Street and NH 101. Approximately 400 feet of approach fill to each side of NH 12/NH 101 will be constructed to raise the grade of the bridge over NH 12/NH 101.

There is currently an unsafe roadway crossing condition at NH Route 12/101 where the Ashuelot Rail Trail is interrupted by the high volume, high speed roadway. Several near misses between vehicles and pedestrians have occurred every year for decades at this at-grade crossing. The trail is used by recreational trail users (pedestrians, snowmobilers, equestrians, by people who snowshoe, etc...) and the students, faculty, and visitors of Keene State College to access the college's athletic fields to the south of NH Route 12/101, south of the main campus.

#### Page 2

The Contingency amount is proposed to be 5% of the Contract amount. This contingency is warranted due to the level of risk associated with the poor soils on the site, preloading of the site to monitor for settlement of the soils and related subsurface work which includes the driving of piles in close proximity to a gravity fed sewer line.

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 that 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: \$2,003,368.00 Contract Amount: \$1,536,742.75 Under Estimate: \$ 466,625.25

Attachments

#### SUPPLEMENTAL PROJECT INFORMATION SHEET

DESCRIPTION: This project consists of the construction of a new multi-use trail (MUT) bridge in the City of Keene. This bridge (Br. No. 128/061) will connect the Ashuelot Rail Trail over NH 12/NH 101 and allow for the safe passage of trail users. The new bridge crossing will be located approximately 1,600 feet east of the Keene roundabout and approximately 2,400 feet west of Main Street and NH 101. Approximately 400 feet of approach fill to each side of NH 12/NH 101 will be constructed to raise the grade of the bridge over NH 12/NH-101.

FEDERAL FUNDING: Construction funding is 80% TE utilizing Turnpike Toll credits as the State's 20% match.

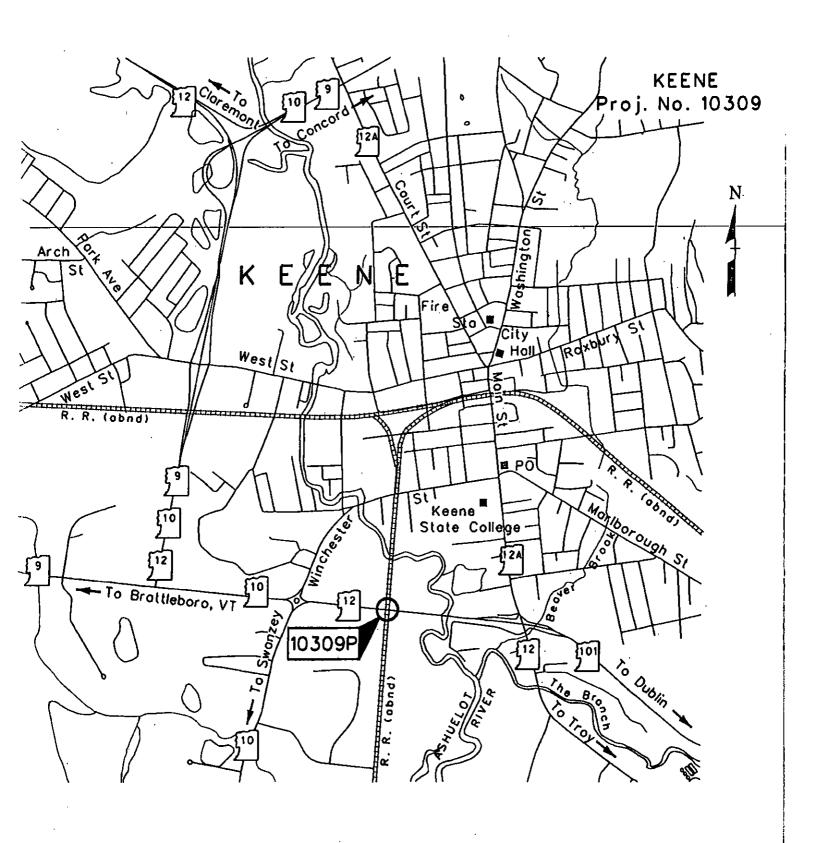
CONTINGENCY: The Contingency amount is proposed to be 5% of the Contract amount. This contingency is warranted due to the level of risk associated with the poor soils on the site, preloading of the site to monitor for settlement of the soils and related subsurface work which includes the driving of piles in close proximity to a gravity fed sewer line.

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

PROJECT EXPLANATION: There is currently an unsafe roadway crossing condition at NH Route 12/101 where the Ashuelot Rail Trail is interrupted by the high volume, high speed roadway. Several near misses between vehicles and pedestrians have occurred every year for decades at this at grade crossing. The trail is used by recreational trail users (pedestrians, snowmobilers, equestrians, snow shoers, etc...) and the students, faculty, and visitors of Keene State College to access the college's athletic fields to the south of NH Route 12/101, south of the main campus.

TRAFFIC IMPLICATIONS: The substructure work and a majority of the superstructure work will take place outside of the roadway limits of NH 12/NH 101. Placement of the center span of the prefabricated pedestrian bridge, anticipated to occur at night, will require a minor closure (30 minutes) to NH 12/NH 101 during this time. Traffic will be detoured around the site on city streets. Placement of the deck will require either alternating one-way traffic or traffic shifts during the time that the deck is being placed above the travel way. Portions of the Ashuelot Rail Trial will be detoured to other trails within the Keene Trail system to avoid the construction.

COMPLETION DATE: October 28, 2016



# State of New Hampshire Department of Transportation

Project:

KEENE - SWANZEY X-A000(458)

10309P

**County and Code:** 

**CHESHIRE COUNTY 005** 

Date Bids Open:

October 29, 2015

Scope of Work:

CONSTRUCTION OF MULTI-USE TRAIL BRIDGE

Location:

CITY OF KEENE

**Completion Date:** 

October 28, 2016

A CPM CONSTRUCTORS (B001)

PO BOX B FREEPORT, ME 04032

\$1,536,742.75

B NEIL H. DANIELS, INC.

4409 ROUTE 5 AXCUTNEY, VT 05030

\$1,712,629.00

C'COLD RIVER BRIDGES LLC

PO BOX 1076 10 LANBRO LANE WALPOLE NH 03608

\$1,836,994,00

D.R.M. PIPER, INC.

PO BOX 490, PLYMOUTH, NH 03264

\$1,882,908.00

E RENAUD BROS CONSTRUCTION INC.

283 FORT BRIDGMAN ROAD VERNON VT 05354

\$1,984,827.15

F T BUCK CONSTRUCTION INC.

249 MERROW ROAD AUBURN ME 04210

\$2,222,290,00

Item			_	······································	À		В		С
No:	Description	Unit '	Quantity	Unit Price	Total	Unit Price	Total	Unit Price	Total
201.1	CLEARING AND GRUBBING (F)	A	1.60	\$10,000.00	\$16,000.00	\$20,000.00	\$32,000.00	\$10,000.00	\$16,000.00
201.881	INVASIVE SPECIES CONTROL TYPE I	SY	768.00	\$5.00	\$3,840.00	\$10.00	\$7,680.00	\$5.00	\$3,840.00
201.882	INVASIVE SPECIES CONTROL TYPE II	SY	111.00	\$5.00	\$555.00	\$20.00	\$2,220.00	\$10.00	\$1,110.00
203.1	COMMON EXCAVATION	CY	786.00	\$12.00	\$9,432.00	\$10.00	\$7,860.00	\$15.00	\$11,790.00
203.6	EMBANKMENT-IN-PLACE (F)	ÇY	9,284.00	\$17.00	\$157,828.00	\$20.00	\$185,680.00	\$18.00	\$167,112.00
203.7	REHANDLING SURCHARGE MATERIAL	CY	292.00	\$10.00	\$2,920.00	<b>\$</b> 15.0 <b>0</b>	\$4,380.00	\$18.00	\$5,256.00
203.71	REHANDLING EXCAVATED MATERIAL	CY	165.00	\$10.00	\$1,650.00	\$10.00	\$1,650.00	\$30.00	\$4,950.00
206.19	COMMON STRUCTURE EXCAVATION EXPLORATORY	CY	60.00	\$50.00	\$3,000.00	\$50.00	\$3,000.00	\$25.00	\$1,500.00
209.201	GRANULAR BACKFILL (BRIDGE) (F)	CY	231.00	\$35.00	\$8,085.00	\$50.00	\$11,550.00	\$55.00	\$12,705.00
210.1	SETTLEMENT PLATFORMS	EA	3.00	\$2,100.00	\$6,300.00	\$5,000.00	\$15,000.00	\$1,000.00	\$3,000.00
304.754	4" STONE DUST WEARING SURFACE FOR TRAILS	CY	97.00	\$90.00	\$8,730.00	\$50.00	\$4,850.00	\$75.00	\$7,275.00
504.1	COMMON BRIDGE EXCAVATION (F)	CY	170.00	\$20.00	\$3,400.00	\$50.00	\$8,500.00	\$75.00	\$12,750.00
508	STRUCTURAL FILL	CY	52.00	\$40.00	\$2,080.00	\$75.00	\$3,900.00	\$100.00	\$5,200.00
510.1	PILE DRIVING EQUIPMENT	U	1.00	\$50,000.00	\$50,000.00	\$35,000.00	\$35,000.00	\$50,000.00	\$50,000.00
510.61	FURNISHING & DRIVING STEEL BEARING PILES	LB	157,680.00	\$0.92	\$145,065.60	<b>\$</b> 0.70	\$110,376.00	\$0.65	\$102,492.00
510.65	DRIVING-POINTS FOR STEEL BEARING PILES	EA	12.00	\$250.00	\$3,000.00	\$365.00	\$4,380.00	\$350.00	\$4,200.00
510.9	PILE SPLICES	EA	30.00	\$200.00	\$6,000.00	\$105.00	<b>\$</b> 3,150.00	\$100.00	\$3,000.00
520.03	CONCRETE CLASS AA, APPROACH SLABS (F)	CY	5.00	\$550.00	\$2,750.00	\$600.00	\$3,000.00	\$1,000.00	\$5,000.00
520.12	CONCRETE CLASS A, ABOVE FOOTINGS (F)	CY	129.00	\$600.00	\$77,400.00	\$600.00	\$77,400.00	\$1,000.00	\$129,000.00
520.213	CONCRETE CLASS B, FOOTINGS (ON SOIL) (F)	CY	77.00	\$500.00	\$38,500.00	\$300.00	\$23,100.00	\$1,000.00	\$77,000.00
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No:	Description	Unit	Quantity	Unit Price	Total	Unit Price	Total :	Unit Price.	Total
<b>534.3</b>	WATER REPELLENT (SILANE/ SILOXANE)	GAL	16.00	\$85.00	\$1,360.00	\$75.00	\$1,200.00	\$100.00	\$1,600.00
538.2	BARRIER MEMBRANE, PEEL AND STICK - VERTICAL SURFACES (F)	SY	11.00	\$50.00	\$550.00	\$35.00	\$385.00	\$100.00	\$1,100.00
541.5	PVC WATERSTOPS, NH TYPE 5 (F)	LF	30.00	\$20.00	\$600.00	\$10.00	\$300.00	\$10.00	\$300.00
544	REINFORCING STEEL (F)	LB	8,915.00	\$1.25	\$11,143.75	\$1.00	\$8,915.00	\$1.50	\$13,372.50
544.2	REINFORCING STEEL, EPOXY COATED (F)	LB .	17,218.00	\$1.30	\$22,383.40	\$1.00	\$17,218.00	\$1.75	\$30,131.50
544.7	SYNTHETIC FIBER REINFORCEMENT (F)	LB	35.00	\$10.00	\$350.00	\$5.00	\$175.00	\$10.00	\$350.00
547	SHEAR CONNECTORS (F)	ĒΑ	144.00	\$10.00	\$1,440.00	\$10.00	\$1,440.00	\$15.00	\$2,160.00
562.1	SILICONE JOINT SEALANT (F)	LF	40.00	\$5.00	\$200.00	\$10.00	\$400.00	\$15.00	\$600.00
585.3	STONE FILL, CLASS C	CY	4.00	\$100.00	\$400.00	<b>\$</b> 75.00	\$300.00	\$250.00	\$1,000.00
593.421	GEOTEXTILE; PERM CONTROL CL2, NON-WOVEN	SY	20.00	\$10.00	\$200.00	\$10.00	\$200.00	\$20.00	\$400.00
595	PREFABRICATED PEDESTRIAN BRIDGE SUPERSTUCTURE	υ	1.00	\$600,000.00	\$600,000.00	\$815,000.00	\$815,000.00	\$880,000.00	\$880,000.00
603.36112	12" ALUMINIZED STEEL END SECTION	EA	2.00	\$175.00	\$350.00	\$200.00	\$400.00	\$500.00	\$1,000.00
603.44012	12" CORR. POLYETHYLENE PIPE FOR SLOPE DRAINAGE	LF	80.00	\$65.00	\$5,200.00	\$25.00	\$2,000.00	\$35.00	\$2,800.00
604.242	DROP INLETS TYPE D-B	U	4.00	\$2,000.00	\$8,000.00	\$1,500.00	\$6,000.00	\$3,000.00	\$12,000.00
607.240	CHAIN LINK FENCE WITH ALUMINUM COATED STEEL FABRIC, 4 FT HIGH	LF	660.00	\$20.00	\$13,200.00	\$12.00	\$7,920.00	\$25.00	\$16,500.00
607.4240	POST ASSEMBLIES FOR CHAIN LINK FENCE, 4 FT HIGH	ĒΑ	8.00	\$160.00	\$1,280.00	\$200.00	\$1,600.00	\$500.00	\$4,000.00
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	2,500.00	\$21.00	\$52,500.00	\$10.00	\$25,000.00	\$20.00	\$50,000.00
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No:	Description	Unit	Quantity	Unit Price	Total	Unit Price	Total	Unit Price	Total
619.1	MAINTENANCE OF TRAFFIC	U	1.00	\$5,000.00	\$5,000.00	\$40,000.00	\$40,000.00	\$10,000.00	\$10,000.00
619.25	PORTABLE CHANGEABLE MESSAGE SIGN	U	2.00	\$7,500.00	\$15,000.00	\$10,000.00	\$20,000.00	\$5,000.00	\$10,000.00
645.512	COMPOST SOCK FOR PERIMETER BERM	LF	1,700.00	\$4.50	\$7,650.00	\$5.00	\$8,500.00	\$2.00	\$3,400.00
645.531	SILT FENCE	LF	1,700.00	\$3.00	\$5,100.00	\$5.0 <b>0</b>	\$8,500.00	\$2.00	\$3,400.00
645.7	STORM WATER POLLUTION PREVENTION PLAN	Ü	1.00	\$5,000.00	\$5,000.00	\$5,000.00	·	\$2,000.00	\$2,000.00
645.71	MONITORING SWPPP AND EROSION AND SEDIMENT CONTROLS	HR	100.00	\$85.00	\$8,500.00	\$50.00	\$5,000.00	\$75.00	<b>\$7,500.00</b>
646.4	TURF ESTABLISHMENT WITH MULCH, TACKIFIERS AND HUMUS	A	1.60	\$15,000.00	\$24,000.00	\$15,000.00	\$24,000.00	\$2,500.00	\$4,000.00
670.42	CONCRETE FILLED BOLLARD	EA	4.00	\$700.00	\$2,800.00	\$1,000.00	\$4,000.00	\$800.00	\$3,200.00
692	MOBILIZATION	U	1.00	\$150,000.00	\$150,000.00	\$100,000.00	\$100,000.00	\$91,000.00	\$91,000.00
697.11	INVASIVE SPECIES CONTROL AND MANAGEMENT PLAN	U	1.00	\$1,000.00	\$1,000.00	\$1,500.00	•	\$1,000.00	\$1,000.00
697.41	CRITICAL PATH METHOD (CPM) ELECTRONIC SCHEDULE	U	1.00	\$1,000.00	\$1,000.00	\$5,000.00	\$5,000.00	\$3,000.00	\$3,000.00
698.14	FIELD OFFICE TYPE D	MON	12.00	\$500.00	\$6,000.00	\$1,500.00	\$18,000.00	\$1,500.00	\$18,000.00
699	MISCELLANEOUS TEMPORARY EROSION AND SEDIMENT CONTROL	\$	10,000.00	\$1.00	\$10,000.00	\$1.00		\$1.00	\$10,000.00
1010.15	FUEL ADJUSTMENT	\$	20,000.00	\$1.00	\$20,000.00	\$1.00	\$20,000.00	\$1.00	\$20,000.00
					\$1,536,742.75		\$1,712,629.00		1,836,994.00

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No:	Description	Unit	Quantity	Unit Price	Total	Unit Price	Total	Unit Price	F
201.1	CLEARING AND GRUBBING (F)	A	1.60	\$10,000.00	\$16,000.00	\$2,500.00	\$4,000.00	\$10,000.00	\$16,000.00
201.881	INVASIVE SPECIES CONTROL TYPE I	SY	768.00	\$3.00	\$2,304.00	\$4.00	\$3,072.00	\$4.00	\$3,072.00
201.882	INVASIVE SPECIES CONTROL TYPE II	SY .	111.00	\$3.00	\$333.00	. \$5.00	\$555.00	\$8.00	\$888.00
203.1	COMMON EXCAVATION	CY.	786.00	\$8.00	\$6,288.00	\$20.00	\$15,720.00	\$12.00	\$9,432.00
203.6	EMBANKMENT-IN-PLACE (F)	CY	9,284.00	\$15.00	\$139,260.00	\$15.00	\$139,260.00	\$20.00	\$185,680.00
203.7	REHANDLING SURCHARGE MATERIAL	CY	292.00	\$8.00	\$2,336.00	\$15.00	\$4,380.00	\$16.00	\$4,672.00
203.71	REHANDLING EXCAVATED MATERIAL	CY	165.00	\$8.00	\$1,320.00	\$15.00	\$2,475.00	\$32.00	\$5,280.00
206,19	COMMON STRUCTURE EXCAVATION EXPLORATORY.	CY	60.00	\$20.00	\$1,200.00	\$25.00	\$1,500.00	\$40.00	\$2,400.00
209.201	GRANULAR BACKFILL (BRIDGE) (F)	CY	231.00	\$40.00	\$9,240.00	\$50.00	\$11,550.00	\$50.00	\$11,550.00
210.1	SETTLEMENT PLATFORMS	EA	3.00	\$1,600.00	\$4,800.00	\$20,000.00	\$60,000.00	\$3,000.00	\$9,000.00
304,754	4" STONE DUST WEARING SURFACE FOR TRAILS	CY	97.00	\$45.00	\$4,365.00	\$50.00	\$4,850.00	\$125.00	\$12,125.00
504.1	COMMON BRIDGE EXCAVATION (F)	CY	170.00	\$12.00	\$2,040.00	\$20.00	\$3,400.00	\$25.00	\$4,250.00
508	STRUCTURAL FILL	CY	52.00	\$50.00	\$2,600.00	\$50.00	\$2,600.00	\$100.00	\$5,200.00
510.1	PILE DRIVING EQUIPMENT	U	1.00	\$47,500.00	\$47,500.00	\$75,000.00	\$75,000.00	\$107,000.00	\$107,000.00
510.61	FURNISHING & DRIVING STEEL BEARING PILES	LB	157,680.00	\$0.55	\$86,724.00	\$0.78	\$122,990.40	\$0.64	\$100,915.20
510.65	DRIVING-POINTS FOR STEEL BEARING PILES	EA	12.00	\$170.00	\$2,040.00	\$150.00	\$1,800.00	\$350.00	\$4,200.00
510.9	PILE SPLICES	EA	30.00	\$320.00	\$9,600.00	\$175.00	\$5,250.00	\$100.00	\$3,000.00
520.03	CONCRETE CLASS AA, APPROACH SLABS (F)	CY	5.00	\$500.00	\$2,500.00	\$1,000.00	\$5,000.00	\$1,000.00	\$5,000.00
520.12	CONCRETE CLASS A. ABOVE FOOTINGS (F)	CY	129.00	\$850.00	\$109,650.00	\$950.00	\$122,550.00	\$850.00	\$109,650.00
520.213	CONCRETE CLASS B, FOOTINGS (ON SOIL) (F)	CY	77.00	\$400.00	\$30,800.00	\$1,000.00	\$77,000.00	\$650.00	\$50,050.00
	FOOTINGS (ON SOIL) (F)								

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No:	Description	Unit	Quantity	Unit Price	Total	Unit Price	Total	Unit Price	Total
534.3	WATER REPELLENT (SILANE/ SILOXANE)	GAL	16.00	\$100.00	\$1,600.00	\$50.00	\$800.00	\$75.00	\$1,200.00
538.2	BARRIER MEMBRANE, PEEL AND STICK - VERTICAL SURFACES (F)	SY	11.00	\$25.00	<b>\$275.00</b> .	\$37.00	\$407.00	\$75.00	\$825.00
541.5	PVC WATERSTOPS, NH TYPE 5 (F)	LF	30.00	\$10.00	\$300.00	\$65.00	\$1,950.00	\$25.00	\$750.00
544	REINFORCING STEEL (F)	LB	8,915.00	\$1.10	\$9,806.50	\$1.25	\$11,143.75	\$1.00	\$8,915.00
544.2	REINFORCING STEEL, EPOXY COATED (F)	LB	17,218.00	\$1.25	\$21,522.50	\$1.50	\$25,827.00	\$1.15	\$19,800.70
544.7	SYNTHETIC FIBER REINFORCEMENT (F)	LB	35.00	\$10.00	\$350.00	\$9.00	\$315.00	\$9.00	\$315.00
547	SHEAR CONNECTORS (F)	EA	144.00	\$6.00	\$864.00	\$8.00	\$1,152.00	\$8.00	\$1,152.00
562.1	SILICONE JOINT SEALANT (F)	LF	40.00	\$10.00	\$400.00	\$120.00	\$4,800.00	\$15.00	\$600.00
585.3	STONE FILL, CLASS C	CY	4.00	\$50.00	\$200.00	\$50.00	\$200.00	\$150.00	\$600.00
593.421	GEOTEXTILE; PERM CONTROL CL.2, NON-WOVEN	SY .	20.00	\$2.50	\$50.00	\$5.00	\$100.00	<b>\$5.00</b>	\$100.00
595	PREFABRICATED PEDESTRIAN BRIDGE SUPERSTUCTURE	U	1.00	\$977,500.00	\$977,500.00	\$924,680.00	\$924,680.00	\$1,100,000.00	51,100,000.00
603.36112	12" ALUMINIZED STEEL END SECTION	EA .	2.00	\$300.00	\$600.00	\$150.00	\$300.00	\$250.00	\$500.00
603.44012	12" CORR. POLYETHYLENE PIPE FOR SLOPE DRAINAGE	LF	80.00	\$30.00	\$2,400.00	<b>\$</b> 65.00	\$5,200.00	\$75.00	\$6,000.00
604.242	DROP INLETS TYPE D-B	U	4.00	\$1,200.00	\$4,800.00	\$3,500.00	\$14,000.00	\$1,600.00	\$6,400.00
607.240	CHAIN LINK FENCE WITH ALUMINUM COATED STEEL FABRIC, 4 FT HIGH	LF	660.00	\$25.00	\$16,500.00	\$20.00	\$13,200.00	\$24.00	\$15,840.00
607.4240	POST ASSEMBLIES FOR CHAIN LINK FENCE, 4 FT HIGH	ĘΑ	8.00	\$460.00	\$3,680.00	\$100.00	\$800.00	\$500.00	\$4,000.00
618.61	UNIFORMED OFFICERS WITH VEHICLE	\$	10,000.00	<b>\$1.00</b>	\$10,000.00	\$1.00	\$10,000.00	\$1.00	\$10,000.00
618.7	FLAGGERS	HR	2,500.00	\$21.00	\$52,500.00	\$15.00	\$37,500.00	\$20.00	\$50,000.00

Item			· · ·	<del></del>	D		É		
No:	Description	Unit	Quantity	Unit Price	Total	Unit Price	⊏ Total .	Unit Price	F Total
619.1	MAINTENANCE OF TRAFFIC	U	1.00	\$25,000.00	\$25,000.00	\$50,000.00		\$16,000,00	\$16,000.00
619,25	PORTABLE CHANGEABLE MESSAGE SIGN	U	2.00	\$5,000.00	\$10,000.00	\$5,000.00	\$10,000.00	\$9,000.00	\$18,000.00
645.512	COMPOST SOCK FOR PERIMETER BERM	LF	1,700.00	\$6.00	\$10,200.00	\$5.00	\$8,500.00	\$6.00	\$10,200.00
645.531	SILT FENCE	LF	1,700.00	\$3.00	\$5,100.00	\$5.00	\$8,500.00	\$3.00	\$5,100.00
645.7	STORM WATER POLLUTION PREVENTION PLAN	U	1.00	\$6,500.00	\$6,500.00	\$3,000.00		\$2,500.00	\$2,500.00
645.71	MONITORING SWPPP AND EROSION AND SEDIMENT CONTROLS	HR	100.00	\$80.00	\$8,000.00	\$25.00	\$2,500.00	\$50.00	\$5,000.00
646.4	TURF ESTABLISHMENT WITH MULCH, TACKIFIERS AND HUMUS	Α	1.60	\$4,500.00	\$7,200.00	\$6,250.00	\$10,000.00	\$20,000.00	\$32,000.00
670.42	CONCRETE FILLED BOLLARD	EA	4.00	\$490.00	\$1,960.00	\$1,000.00	\$4,000.00	\$1,800.00	\$7,200.00
692	MOBILIZATION	U	1.00	\$180,000.00	\$180,000.00	\$125,000.00	\$125,000.00	\$208,728.10	\$208,728.10
697.11	INVASIVE SPECIES CONTROL AND MANAGEMENT PLAN	U	1.00	\$1,200.00	\$1,200.00	\$3,000.00	•	\$2,000.00	\$2,000.00
697.41	CRITICAL PATH METHOD (CPM) ELECTRONIC SCHEDULE	U	1.00	\$1,500.00	\$1,500.00	\$3,000.00	\$3,000.00	\$2,000.00	\$2,000.00
698.14	FIELD OFFICE TYPE D	MON	12.00	\$1,000.00	\$12,000.00	\$1,000.00	\$12,000.00	\$600.00	\$7,200.00
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
1010.15	FUEL ADJUSTMENT	\$	20,000.00	\$1.00	\$20,000.00	\$1.00	\$20,000.00	\$1.00	\$20,000.00
	·				\$1,882,908.00		\$1,984,827.15		2,222,290.00

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A - PS&E Comparison

<b>PS&amp;F</b>	=	NHDOT	Cost	Estimate
	_		~~	

				FOOL CUIT			PS&E	= NHDOT Cost Estimate
Item No:	Description	Unit	Quantity	Unit Price	\-Bidder Total	Unit Price	PS&E Total	A-PS&E Difference
201.1	CLEARING AND GRUBBING (F)	A	1.60	\$10,000.00	\$16,000.00	\$15,000.00	\$24,000.00	(\$8,000.00)
201.881	INVASIVE SPECIES CONTROL TYPE I	ŞY	768.00	\$5.00	\$3,840.00	\$20.00	\$15,360.00	(\$11,520.00)
201.882	INVASIVE SPECIES CONTROL TYPE II	SY	111.00	\$5.00	\$555.00	\$5.00	\$555.00	\$0.00
203.1	COMMON EXCAVATION	CY	786.00	\$12.00	\$9,432.00	\$10.00	\$7,860.00	\$1,572.00
203.6	EMBANKMENT-IN-PLACE (F)	CY	9,284.00	\$17.00	\$157,828.00	\$10.00	\$92,840.00	\$64,988.00
203.7	REHANDLING SURCHARGE MATERIAL	CY	292.00	\$10.00	\$2,920.00	\$5.00	\$1,460.00	\$1,460.00
203.71	REHANDLING EXCAVATED MATERIAL	CY	165.00	\$10.00	\$1,650.00	\$25.00	\$4,125.00	(\$2,475.00)
206.19	COMMON STRUCTURE EXCAVATION EXPLORATORY	CY	60.00	\$50.00	\$3,000.00	\$75.00	<b>\$4,5</b> 00.00	(\$1,500.00)
209.201	GRANULAR BACKFILL (BRIDGE) (F)	CY	231.00	\$35.00	\$8,085.00	\$50.00	\$11,550.00	(\$3,465.00)
210.1	SETTLEMENT PLATFORMS	EA	3.00	\$2,100.00	\$6,300.00	\$600.00	\$1,800.00	\$4,500.00
304.754	4" STONE DUST WEARING SURFACE FOR TRAILS	CY	. 97.00	\$90.00	\$8,730.00	\$40.00	\$3,880.00	\$4,850.00
504.1	COMMON BRIDGE EXCAVATION (F)	CY	170.00	\$20.00	\$3,400.00	\$50.00	\$8,500.00	(\$5,100.00)
508	STRUCTURAL FILL	CY	52.00	\$40.00	\$2,080.00	\$50.00	\$2,600.00	(\$520.00)
510.1	PILE DRIVING EQUIPMENT	υ	1.00	\$50,000.00	\$50,000.00	\$75,000.00	\$75,000.00	(\$25,000.00)
510.61	FURNISHING & DRIVING STEEL BEARING PILES	LB	157,680.00	\$0.92	\$145,065.60	\$0.80	\$126,144.00	\$18,921.60
510.65	DRIVING-POINTS FOR STEEL BEARING PILES	EA	12.00	\$250.00	\$3,000.00	\$200.00	\$2,400.00	\$600.00
510.9	PILE SPLICES	EΑ	30.00	\$200.00	\$6,000.00	\$100.00	\$3,000.00	\$3,000.00
520.03	CONCRETE CLASS AA, APPROACH SLABS (F)	ĊY	5.00	\$550.00	\$2,750.00	\$500.00	\$2,500.00	\$250.00
520.12	CONCRETE CLASS A, ABOVE FOOTINGS (F)	CY	129.00	\$600.00	\$77,400.00	\$750.00	\$96,750.00	(\$19,350.00)
520.213	CONCRETE CLASS B, FOOTINGS (ON SOIL) (F)	CY	77.00	\$500.00	\$38,500.00	\$300.00	\$23,100.00	\$15,400.00

M		<del></del> .	Α-	PS&E Con			PS&	E = NHDOT Cost Estimate
Item No:	Description	Unit	Quantity	Unit Price	V-Bidder Total	Unit Price	PS&E Total	A-PS&E
534.3	WATER REPELLENT (SILANE/ SILOXANE)	GAL	16.00	\$85.00	\$1,360.00	\$80.00	\$1,280.00	Difference \$80.00
538.2	BARRIER MEMBRANE, PEEL AND STICK - VERTICAL SURFACES (F)	SY	11.00	\$50.00	\$550.00	\$50.00	\$550.00	\$0.00
541.5	PVC WATERSTOPS, NH TYPE 5 (F)	ĹF	30.00	\$20.00	\$600.00	\$10.00	\$300.00	\$300.00
544	REINFORCING STEEL (F)	LB	8,915.00	\$1.25	\$11,143.75	\$1.50	\$13,372.50	(\$2,228.75)
544.2	REINFORCING STEEL, EPOXY COATED (F)	LB '	17,218.00	\$1.30	\$22,383.40	\$1.75	\$30,131.50	(\$7,748.10)
544.7	SYNTHETIC FIBER REINFORCEMENT (F)	LB	35.00	\$10.00	\$350.00	\$10.00	\$350.00	\$0.00
547	SHEAR CONNECTORS (F)	EΑ	144.00	\$10.00	\$1,440.00	\$10.00	\$1,440.00	\$0.00
562.1	SILICONE JOINT SEALANT (F)	LF	40.00	\$5.00	\$200.00	\$25.00	\$1,000.00	(\$800.00)
585.3	STONE FILL, CLASS C	CY	4.00	\$100.00	\$400.00	\$50.00	\$200.00	\$200.00
593.421	GEOTEXTILE; PERM CONTROL CL2, NON-WOVEN	SY	20.00	\$10.00	\$200.00	\$4.00	\$80.00	\$120.00
595	PREFABRICATED PEDESTRIAN BRIDGE SUPERSTUCTURE	<b>U</b> .	1.00	\$600,000.00	\$600,000.00	\$1,000,000.00	\$1,000,000.00	(\$400,000.00)
603.36112	12" ALUMINIZED STEEL END SECTION	EA	2.00	\$175.00	\$350.00	\$600.00	\$1,200.00	(\$850.00)
603.44012	12" CORR. POLYETHYLENE PIPE FOR SLOPE DRAINAGE	LF	80.00	\$65.00	\$5,200.00	\$28.00	\$2,240.00	\$2,960.00
604.242	DROP INLETS TYPE D-B	U	4.00	\$2,000.00	\$8,000.00	\$2,000.00	\$8,000.00	\$0.00
607.240	CHAIN LINK FENCE WITH ALUMINUM COATED STEEL FABRIC, 4 FT HIGH	ĿF	660.00	\$20.00	\$13,200.00	<b>\$60.00</b>	\$39,600.00	(\$26,400.00)
607.4240	POST ASSEMBLIES FOR CHAIN LINK FENCE, 4 FT HIGH	EA	8.00	\$160.00	\$1,280.00	\$100.00	\$800.00	\$480.00
618.61	UNIFORMED OFFICERS WITH VEHICLE	\$	10,000.00	\$1.00	\$10,000.00	\$1.00	\$10,000.00	\$0.00

A - PS&E Comparison

DSRE	= NHDOT	Caet	Ectimate.
FOOLE	- KUUUI	COST	esumane

Item				1 OUL COIL					AE = NHUOT Cost Estimate
No:	Description	Unit	Quantity	Unit Price	A-Bidder Total	U	nit Price	PS&E Total	A-PS&E Difference
618.7	FLAGGERS	HR	2,500.00	\$21.00	\$52,500.00		\$25.00	\$62,500.00	(\$10,000.00)
619.1	MAINTENANCE OF TRAFFIC	U	1.00	\$5,000.00	\$5,000.00		000.00	\$22,000.00	(\$17,000.00)
619.25	PORTABLE CHANGEABLE MESSAGE SIGN	U	2.00	\$7,500.00	\$15,000.00	ĺ	00.00	\$10,000.00	\$5,000.00
645.512	COMPOST SOCK FOR PERIMETER BERM	LF	1,700.00 ·	\$4.50	\$7,650.00		\$7.00	\$11,900.00	(\$4,250.00)
645.531	SILT FENCE	LF	1,700.00	\$3.00	\$5,100.00		\$5.00	\$8,500.00	(\$3,400.00)
645.7	STORM WATER POLLUTION PREVENTION PLAN	U	1.00	\$5,000.00	\$5,000.00	\$5	000.00	\$5,000.00	\$0.00
645.71	MONITORING SWPPP AND EROSION AND SEDIMENT CONTROLS	HR	100.00	\$85.00	\$8,500.00		\$80.00	\$8,000.00	\$500.00
646.4	TURF ESTABLISHMENT WITH MULCH, TACKIFIERS AND HUMUS	A	<b>1.60</b>	\$15,000.00	\$24,000.00	\$5	,000.00	\$8,000.00	\$16,000.00
670.42	CONCRETE FILLED BOLLARD	EA	4.00	\$700.00	\$2,800.00	\$	500.00	\$2,000.00	\$800.00
692	MOBILIZATION	U	1.00	\$150,000.00	\$150,000.00	\$200	.000.00	\$200,000.00	(\$50,000.00)
697.11	INVASIVE SPECIES CONTROL AND MANAGEMENT PLAN	U	1.00	\$1,000.00	\$1,000.00	Ī	,000.00	\$1,000.00	\$0.00
697.41	CRITICAL PATH METHOD (CPM) ELECTRONIC SCHEDULE	U	1.00	\$1,000.00	\$1,000.00	\$1	,000.00	\$1,000.00	\$0.00
698.14	FIELD OFFICE TYPE D	MON	12.00	\$500.00	\$6,000.00	\$1	250.00	\$15,000.00	(\$9,000.00)
699	MISCELLANEOUS TEMPORARY EROSION AND SEDIMENT CONTROL	\$	10,000.00	\$1.00	\$10,000.00		\$1.00	\$10,000.00	\$0.00
1010.15	FUEL ADJUSTMENT	.\$	20,000.00	\$1.00	\$20,000.00		\$1.00	\$20,000.00	\$0.00
					\$1,536,742.75		, . <u>.</u>	\$2,003,368.00	(\$466,625.25)
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#### CERTIFICATE OF LIABILITY INSURANCE

DATE (NIWODNYYY) 12/21/2015

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(les) must be endorsed. If SUBROGATION IS WAIVED, subject to

the terms and conditions of the policy, cortain policies may require an certificate holder in lieu of such endorsement(s).	endorsement. A sta	tement on th	ils certificate does not confer	rights to the		
PRODUCER	CONTACT Tricia	Shepard				
Cross Insurance-Augusta	PHONE (207	622-4787	AC. Not: 207 6	23-1248		
116 Community Drive	EMAL ADDRESS: tshepa					
				T		
Augusta MZ 04330			RDING COVERAGE	25658		
INSURED						
CPM Constructors, Inc.			arty Casualty Company			
P.O. Box B	INSURER C :Standa	rd Fire 1	Ine Co	19070		
30 Bonney Street	INSURER D :			<del> </del>		
	ONSURER EL:			<del> </del>		
	INSURER P:			<u> </u>		
COVERAGESCERTIFICATE NUMBER:CL1512215		-	REVISION NUMBER:	10010000		
THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HA INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORD	OF ANY CONTRACT	OR OTHER I	DOCUMENT WITH RESPECT TO	WHICH THIS		
EXCLUSIONS AND CONDITIONS OF SUCH POLICIES, LIMITS SHOWN MAY HAVE			·			
WER TYPE OF DISURANCE MED WYD POLICY NUMBER	ANN/DD/YYYY	POLICY EXP	etimil			
X COMMERCIAL GENERAL LIABILITY			EACH OCCURRENCE \$	1,000,000		
A CLAIMS-MADE X OCCUR			PREMISES (Es occurrence) \$	300,000		
DT-CO-9D704850-T1L-16	1/1/2016	1/1/2017	MED EXP (Any one person) \$	5,000		
		{	PERSONAL & ADVINSURY \$	1,000,000		
GEN'L AGGREGATE LIMIT APPLIES PER:		[	GENERAL AGGREGATE \$	2,000,000		
POLICY X PRO: LOC		l	PRODUCTS - COMP/OP AGG 8	2,000,000		
OTHER:			Employee Benefits -Aggregate \$	2,000,000		
AUTOMOBILE LIABILITY	·		COMBINED SINGLE CHIT (Fa accident)	1,000,000		
B X ANYAUTO			BODILY INJURY (Per person) \$			
X ALLOWNED X SCHEDULED 8100x3995537C716	1/1/2015	1/1/2017	BODILY INJURY (Per socident) \$			
Y y NON-OWNED	1 ' '	'	PROPERTY DAMAGE (Per accident)			
HIRED AUTOS AUTOS		[	Medical payments \$	5,000		
X UMBRELLA LIAB X OCCUR			EACH OCCURRENCE \$	5,000,000		
B EXCESS LIAB CLABAS-MADE		l t	AGGREGATE \$	5,000,000		
OED X RETENTION \$ 10,000 DTSH-CUP-02399577-TIL	-16 1/1/2016	1/1/2017	A A	3,000,000		
WORKERS COMPENSATION			X PER OTH-			
AND EMPLOYERS LIABILITY  ANY PROPRIETORIZATIVE PERCECUTING Y/N			E.L. EACH ACCIDENT \$	1 000 000		
ANY PROPRIETORPARTNER/EXECUTIVE OFFICERMEMBER EXCLUDED? H/A DXCUB-60786568 ABF 16	1/1/2016	1/1/2017		1,000,000		
If yes, describe under DESCRIPTION OF OPERATIONS below	-,-,	"/"/ "		1,000,000		
DESCRIPTION OF OPERATIONS BROW			E.L. DISEASE - POLICY LIMIT   \$	7,000,000		
	] `					
	,			,		
DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 161, Additional Remarks School Project No. X-A000 (458), 10309P - Keene-Swanzey Proje				ates in		
the City of Keene, NH. NH Department of Transportati				- 1		
to General Liability and Umbrella Liability Coverage				· Lubpudus		
	, <b>p</b>			j		
			•			
CERTIFICATE HOLDER	CANCELLATION	1		· · · · · · · · · · · · · · · · · · ·		
			BCRIBED POLICIES BE CANCEL			
NH Department of Transportation	THE EXPIRATION ACCORDANCE WIT		reof, notice will be de Verovirions	LIVERED (N		
Office of Federal Compliance	AUGUANIOE WI	IN INE FULIU	r Friotologo	Į		
7 Hazen Drive	AUTHORIZED REPRESE	STATIVE				

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Tricia & shepard

Concord, NH 03302-0483

Tricia Shepard/TJA



### CERTIFICATE OF LIABILITY INSURANCE

DATE (HUNDDITTY)
11/16/2015

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(les) 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 cortificate holder in lieu of such endorsement(s). CONTACT Tricia Shepard HE (207) 622-4787 Cross Insurance-Augusta FAX IA/C, I/o): 116 Community Drive E-MAIL ADDRESS: tshepard@crossagency.com HISURER(S) AFFORDRIG COVERAGE HAIC # Augusta ME 04330 MSURERATravelers Ins. Co. HI\$URED INSURER B New Hampshire Department of Transportation HISURER C: and CPM Constructors INSURER D : P.O. Box B MSURER E Freeport NE 04032 INSURER F COVERAGES CERTIFICATE NUMBER:CL15111655463-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. IABOUTETIAD POLICY EFF POLICY EXP TYPE OF HISURANCE POLICY NUMBER COMMERCIAL GENERAL LIABILITY EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Es occurrence) 2,000,000 CLAIMS-MADE X OCCUR X Owners & Contractors PRR-40419888-TIM 11/16/2015 11/16/2014 MED EXP (Any one person) PERSONAL & ADVINJURY GEITL AGGREGATE LIMIT APPLIES PER: GEHERAL AGGREGATE 3,000,000 x 紹 POLICY PRODUCTS - COMPANY AGG OTHER: AUTOMOBILE LIABILITY COMBINED SINGLE LIMIT ANY AUTO BODILY INJURY (Per person) ALL OWNED **SCHEDULED** BODILY BUILDRY (Per accident AUTOS HON-OWNED PROPERTY DAMAGE HIRED AUTOS AUTOS UMBRELLA LIAD OCCUR EACH OCCURRENCE EXCESS LIAB CLAIMS-MADE AGGREGATE DED RETENTION WORKERS COMPENSATION PER STATUTE AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTHER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandalory in NH) E.L. EACH ACCIDENT EL DISEASE - EA EMPLOYER & l yes, describe under DESCRIPTION OF OPERATIONS below E.L. DISEASE - POLICY LIMIT ! 6

DESCRIPTION OF OPERATIONS/LOCATIONS/VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached | more space is required)

Project No. X-A000(458), 10309P - Keene-Ewanzey Project --Construction of new multi-use trail brdige in
the City of Keene, NH. NH Department of Transportation is a named insured on this CCP Liability Policy.

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OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BE, TON DATE THEREOF, NOTICE WILL BE DELIVERED WITH THE POLICY PROVISIONS.

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Trucke & Shepard

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Tricia Shepard/TJA