



Calc. By:	RSW	Date:	12/18/2015
Chck. By:	EGW	Date:	12/23/2015
Chck. By:		Date:	
Chck. By:		Date:	

US Route 2 (Rogers' Rangers) Bridge over the Connecticut River, NHDOT Br. No. 112/130
Engineers Estimate of Probable Construction Costs
Hoyle, Tanner Project No. 092558/NHDOT Project No. 16155
Preliminary Bridge Plans

ITEM NO	ITEM DESCRIPTION	Quantity		Cost	
		Unit	Amount	Unit	Total
209.201	GRANULAR BACKFILL (BRIDGE) (F)	CY	500	\$45.00	\$22,500
403.61	PAVEMENT JOINT ADHESIVE (BRIDGE BASE)	LF	1217	\$2.00	\$2,434
403.911	HOT BITUMINOUS BRIDGE PAVEMENT, 1" BASE COURSE	TON	91	\$150.00	\$13,650
500.02	ACCESS FOR BRIDGE CONSTRUCTION	U	1	\$500,000.00	\$500,000
502.	REMOVAL OF EXISTING BRIDGE STRUCTURE	U	1	\$1,000,000.00	\$1,000,000
503.101	WATER DIVERSION STRUCTURE	U	1	\$40,000.00	\$40,000
503.201	COFFERDAMS	U	1	\$40,000.00	\$40,000
503.202	COFFERDAMS	U	1	\$40,000.00	\$40,000
504.1	COMMON BRIDGE EXCAVATION (F)	CY	420	\$30.00	\$12,600
504.2	ROCK BRIDGE EXCAVATION	CY	50	\$40.00	\$2,000
508.	STRUCTURAL FILL	CY	80	\$50.00	\$4,000
509.1	MOBILIZATION AND DEMOBILIZ. OF DRILLED SHAFT DRILLING EQUIPMENT	U	1	\$325,000.00	\$325,000
509.2	DRILLED SHAFT	LF	200	\$1,200.00	\$240,000
509.3	OBSTRUCTION REMOVAL	LF	15	\$2,000.00	\$30,000
509.4	ROCK SOCKET EXCAVATION	LF	60	\$3,000.00	\$180,000
509.501	CROSSHOLE SONIC LOGGING (CSL) TESTS	EA	4	\$1,000.00	\$4,000
509.62	DRILLED SHAFT REINFORCING STEEL	LB	40000	\$1.50	\$60,000
510.1	PILE DRIVING EQUIPMENT	U	1	\$100,000.00	\$100,000
510.61	FURNISHING & DRIVING STEEL BEARING PILES	LB	150000	\$0.50	\$75,000
510.65	DRIVING-POINTS FOR STEEL BEARING PILES	EA	50	\$175.00	\$8,750
510.9	PILE SPLICES	EA	50	\$125.00	\$6,250
520.0302	CONCRETE CLASS AA APPROACH SLABS (QC/QA) (F)	CY	95	\$450.00	\$42,750
520.12	CONCRETE CLASS A, ABOVE FOOTINGS (F)	CY	380	\$750.00	\$285,000
520.21	CONCRETE CLASS B, FOOTINGS (F)	CY	220	\$550.00	\$121,000
520.213	CONCRETE CLASS B, FOOTINGS (ON SOIL) (F)	CY	200	\$400.00	\$80,000
520.7002	CONCRETE BRIDGE DECK (QC/QA) (F)	CY	665	\$650.00	\$432,250
528.51	PRESTRESSED CONCRETE DECK PANELS (F)	SF	13500	\$25.00	\$337,500
534.3	WATER REPELLENT (SILANE/ SILOXANE)	GAL	95	\$75.00	\$7,125
538.2	BARRIER MEMBRANE, PEEL AND STICK - VERTICAL SURFACES (F)	SY	45	\$50.00	\$2,250
538.5	BARRIER MEMBRANE, HEAT WELDED (F)	SY	1595	\$30.00	\$47,850
541.4	PVC WATERSTOPS, NH TYPE 4 (F)	LF	61	\$10.00	\$610
541.5	PVC WATERSTOPS, NH TYPE 5 (F)	LF	94	\$10.00	\$940
544.	REINFORCING STEEL (F)	LB	90000	\$1.50	\$135,000
544.2	REINFORCING STEEL, EPOXY COATED (F)	LB	140000	\$1.50	\$210,000
544.7	SYNTHETIC FIBER REINFORCEMENT (F)	LB	450	\$10.00	\$4,500
547.	SHEAR CONNECTORS (F)	EA	7220	\$5.00	\$36,100
548.21	ELASTOMERIC BEARING ASSEMBLIES (F)	EA	6	\$2,000.00	\$12,000
548.22	ELASTOMERIC BEARING ASSEMBLIES (F)	EA	6	\$3,000.00	\$18,000
548.23	ELASTOMERIC BEARING ASSEMBLIES (F)	EA	6	\$2,500.00	\$15,000
550.1	STRUCTURAL STEEL (F)	LB	1260000	\$1.75	\$2,205,000
559.41	ASPHALTIC PLUG FOR CRACK CONTROL (F)	LF	94	\$150.00	\$14,100
561.301	PREFABRICATED EXPANSION JOINT, FINGER JOINT (F)	LF	47	\$1,500.00	\$70,500
562.1	SILICONE JOINT SEALANT (F)	LF	72	\$20.00	\$1,440
563.23	BRIDGE RAIL T3	LF	407	\$100.00	\$40,700
563.24	BRIDGE RAIL T4	LF	407	\$150.00	\$61,050
565.232	BRIDGE APPROACH RAIL T3 (STEEL POSTS)	U	2	\$5,500.00	\$11,000
565.242	BRIDGE APPROACH RAIL T4 (STEEL POSTS)	U	2	\$6,000.00	\$12,000
585.21	STONE FILL, CLASS B (BRIDGE)	CY	250	\$45.00	\$11,250
593.411	GEOTEXTILE; PERM CONTROL CL.1, NON-WOVEN	SY	400	\$5.00	\$2,000
692.	MOBILIZATION	U	1	\$694,000.00	\$694,000
1010.41	QUALITY CONTROL QUALITY ASSURANCE (QC/QA) FOR CONCRETE	\$	15000	1	\$15,000

CONSTRUCTION (CON)	
CONSTRUCTION SUBTOTAL	\$7,632,099.00
CONTINGENCY (10%)	\$763,209.90
CONSTRUCTION (CON) TOTAL FOR NHDOT FY PLANNING	\$8,400,000.00

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This Engineers Estimate of Probable Construction Costs is based on the anticipated scope of work, as well as HTA's experience with similar projects and understanding of current industry trends. The estimate has not been based on a final design for this project, and as such, it is intended to be preliminary in nature. It should be noted that changes in material or labor costs in the construction industry could impact the project cost in either direction.