



PROJECT NAME:	Nute Road Bellamy River Crossing		
PROJECT NO.:	1162		
SHEET NO.:	1	CITY/TOWN	Madbury, NH
CALCULATED BY:	TMA	DATE:	6/6/2020
CHECKED BY:	LBK	DATE:	7/6/2020

Engineers Opinion of Probable Construction Cost (PS&E Submission)					
Item #	Item Description	Unit	Quantity	Unit Price	Cost
Earthwork					
201.1	CLEARING AND GRUBBING (F)	A	0.50	\$ 11,700.00	\$ 5,850
203.6	EMBANKMENT-IN-PLACE (F)	CY	40	\$ 12.00	\$ 480
207.1	COMMON CHANNEL EXCAVATION	CY	320	\$ 22.00	\$ 7,040
214	FINE GRADING	U	1	\$ 6,000.00	\$ 6,000
504.1	COMMON BRIDGE EXCAVATION (F)	CY	550	\$ 22.00	\$ 12,100
504.2	ROCK BRIDGE EXCAVATION	CY	5	\$ 100.00	\$ 500
645.531	SILT FENCE	LF	500	\$ 4.15	\$ 2,075
646.51	TURF ESTABLISHMENT WITH MULCH, TACKIFIERS AND LOAM	SY	240	\$ 10.00	\$ 2,400
Earthwork Subtotal					\$ 36,445
Structure					
209.201	GRANULAR BACKFILL (BRIDGE) (F)	CY	210	\$ 40.00	\$ 8,400
502	REMOVAL OF EXISTING BRIDGE STRUCTURE	U	1	\$ 30,000.00	\$ 30,000
503.1	WATER DIVERSION STRUCTURES	U	1	\$ 45,000.00	\$ 45,000
508	STRUCTURAL FILL	CY	40	\$ 52.50	\$ 2,100
520.02	CONCRETE CLASS AA, ABOVE FOOTINGS (F)	CY	10	\$ 825.00	\$ 8,250
520.03	CONCRETE CLASS AA, APPROACH SLABS (F)	CY	40	\$ 500.00	\$ 20,000
520.12	CONCRETE CLASS A, ABOVE FOOTINGS (F)	CY	85	\$ 650.00	\$ 55,250
520.213	CONCRETE CLASS B, FOOTINGS (ON SOIL) (F)	CY	60	\$ 840.00	\$ 50,400
520.7002	CONCRETE BRIDGE DECK (QC/QA) (F)	CY	20	\$ 900.00	\$ 18,000
528.3115	PRESTRESSED CONCRETE BRIDGE DECK, BUTTED DECK BEAMS (F)	SF	970	\$ 150.00	\$ 145,500
534.3	WATER REPELLENT (SILANE/SILOXANE)	GAL	15	\$ 87.50	\$ 1,313
538.2	BARRIER MEMBRANE, PEEL AND STICK - VERTICAL SURFACES (F)	SY	10	\$ 32.50	\$ 325
538.5	BARRIER MEMBRANE, HEAT WELDED (F)	SY	150	\$ 35.00	\$ 5,250
541.4	PVC WATERSTOPS, NH TYPE 4 (F)	LF	45	\$ 12.50	\$ 563
544.3	REINFORCING STEEL (CONTRACTOR DETAILED)	LB	11400	\$ 3.75	\$ 42,750
544.31	REINFORCING STEEL, EPOXY COATED (CONTRACTOR DETAILED)	LB	7850	\$ 4.50	\$ 35,325
544.7	SYNTHETIC FIBER REINFORCEMENT (F)	LB	280	\$ 8.50	\$ 2,380
548.11	ELASTOMERIC BEARING PADS (F)	EA	14	\$ 240.00	\$ 3,360
559.41	ASPHALTIC PLUG FOR CRACK CONTROL (F)	LF	55	\$ 110.00	\$ 6,050
562.1	SILICONE JOINT SEALANT (F)	LF	60	\$ 20.00	\$ 1,200
585.2	STONE FILL, CLASS B	CY	210	\$ 45.00	\$ 9,450
593.411	GEOTEXTILE; PERM CONTROL CL.1, NON-WOVEN	SY	430	\$ 3.25	\$ 1,398
Structure Subtotal					\$ 492,263
Roadway					
202.7	REMOVAL OF GUARDRAIL	LF	244	\$ 5.00	\$ 1,220
203.1	COMMON EXCAVATION	CY	690	\$ 10.00	\$ 6,900
304.2	GRAVEL (F)	CY	430	\$ 29.00	\$ 12,470
304.3	CRUSHED GRAVEL (F)	CY	240	\$ 35.00	\$ 8,400
403.11	HOT BITUMINOUS PAVEMENT, MACHINE METHOD	TON	230	\$ 120.00	\$ 27,600
403.12	HOT BITUMINOUS PAVEMENT, HAND METHOD	TON	5	\$ 140.00	\$ 700
403.6	PAVEMENT JOINT ADHESIVE	LF	900	\$ 0.50	\$ 450
403.911	HOT BITUMINOUS BRIDGE PAVEMENT, 1" BASE COURSE	TON	6	\$ 200.00	\$ 1,200
417	COLD PLANING BITUMINOUS SURFACES	SY	50	\$ 10.00	\$ 500
563.3	BRIDGE RAIL T101	LF	120	\$ 150.00	\$ 18,000
606.12551	BEAM GUARDRAIL (TERMINAL UNIT TYPE EAGRT, TL 2, 25') (STEEL POST)	U	4	\$ 2,800.00	\$ 11,200
606.1285	BEAM GUARDRAIL (BRIDGE APPROACH UNIT)	U	4	\$ 5,000.00	\$ 20,000
606.18001	31" W-BEAM GUARDRAIL WITH 8" OFFSET BLOCK (STEEL POST)	LF	225	\$ 30.00	\$ 6,750
609.01	STRAIGHT GRANITE CURB	LF	40	\$ 110.00	\$ 4,400
628.2	SAWED BITUMINOUS PAVEMENT	LF	190	\$ 5.00	\$ 950
Roadway Subtotal					\$ 120,740
Incidentals					
619.1	MAINTENANCE OF TRAFFIC	U	1	\$ 10,000.00	\$ 10,000
645.7	STORM WATER POLLUTION PREVENTION PLAN	U	1	\$ 3,000.00	\$ 3,000
645.71	MONITORING SWPPP AND EROSION AND SEDIMENT CONTROLS	HR	50	\$ 80.00	\$ 4,000
692	MOBILIZATION	U	1	\$ 65,000.00	\$ 65,000
1008.9	ALTERATIONS AND ADDITIONS AS NEEDED - TESTING OF MATERIALS	\$	1	\$ 5,000.00	\$ 5,000
Incidentals Subtotal					\$ 87,000
Project Subtotal (2018)					\$ 736,448
				Contingency (5%)	\$ 36,820
				2021 Construction Escalator (3%)	\$ 22,093
				Engineering Study:	\$ 52,128
				Final Design:	\$ 96,978
				Construction Phase Services	\$ 65,000
				Project Total	\$ 1,010,000