

	COMPUTATION BY		TAB	DATE	5/10/18	SHEET	1	OF	1
	CHECKED BY		DPW	DATE	5/20/18	CME PROJECT NO. 2011658			
	CLIENT					CLIENT PROJECT NO. 40-141			
	ConnDOT State Liaison Bridge Project								
ITEM Bridge No. 01138, Route 82 over the Connecticut River									

### Cost to Build Sidewalk Structure and Modify Bridge to Accommodate Sidewalk

#### STRUCTURE ITEMS

ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	TOTAL
STRUCTURAL STEEL REPAIRS (SITE 1) <sup>1</sup>	LS	1	\$618,000.00	\$618,000.00
LOCALIZED PAINT REMOVAL AND FIELD PAINTING OF EXISTING STEEL (AT SIDEWALK SUPPORT LOCATIONS)	LS	1	\$636,000.00	\$636,000.00
REMOVE AND RESET BRIDGE RAIL (SPAN 1)	LF	99	\$100.00	\$9,900.00
FRP DECK FOR SIDEWALK	SF	5290	\$60.00	\$317,400.00
STRUCTURAL STEEL FOR SIDEWALK STRUCTURE	LB	69600	\$10.00	\$696,000.00
MESH PEDESTRIAN RAILING	LF	1762	\$600.00	\$1,057,200.00
COUNTERWEIGHT	LS	1	\$1,611,000.00	\$1,611,000.00
PEDESTRIAN RESISTANCE GATE <sup>2</sup>	EA	2	\$160,000.00	\$320,000.00
MODIFICATIONS TO OPERATOR HOUSE LANDING & STAIRS	LS	1	\$58,000.00	\$58,000.00
ELECTRICAL HOUSE FRAMING & ROOF	LS	1	\$290,000.00	\$290,000.00
STRUCTURE TOTAL:				\$5,661,900.00

#### MECHANICAL ITEMS

ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	TOTAL
CENTER PIVOT BEARING REPLACEMENT	LS	1	\$984,000.00	\$984,000.00
REPLACEMENT OF END WEDGE MOTORS, LINKAGES, LEVERS	LS	1	\$484,000.00	\$484,000.00
CORRECTING BRIDGE BALANCE WITH SIDEWALK	LS	1	\$42,000.00	\$42,000.00
MACHINERY PAINT REPAIRS	LS	1	\$90,000.00	\$90,000.00
PEDESTRIAN RESISTANCE GATE MECHANICAL SYSTEM (INCLUDES MOTOR)	LS	1	\$88,000.00	\$88,000.00
MODIFICATIONS TO PIER 2 AND EAST ABUTMENT MOUNTED MACHINERY <sup>3</sup>	LS	1	\$116,000.00	\$116,000.00
MECHANICAL TOTAL:				\$1,804,000.00

#### ELECTRICAL ITEMS

ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	TOTAL
PEDESTRIAN GATES	EA	2	\$40,600.00	\$81,200.00
REPLACE AND RELOCATE APPROACH TRAFFIC CONTROL DEVICES (GATES, WARNING LIGHTS, TRAFFIC SIGNALS)	EA	2	\$186,000.00	\$372,000.00
REPLACE CCTV CAMERA SYSTEM (INCLUDES INSTALLATION OF TEN CAMERAS TO MONITOR SIDEWALK)	EA	1	\$53,000.00	\$53,000.00
ELECTRICAL TOTAL:				\$506,200.00
SUBTOTAL 1:				\$7,972,100.00

#### MINOR ITEMS

ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	TOTAL
Minor Items (30% of Subtotal 1)	LS	1	\$2,391,700.00	\$2,391,700.00
SUBTOTAL 2				\$2,391,700.00

#### LUMP SUM ITEMS

ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	TOTAL
Clearing & Grubbing (3% of Subtotals 1 & 2)	LS	1	\$310,914.00	\$311,000.00
M & P of Traffic (4% of Subtotals 1 & 2)	LS	1	\$414,552.00	\$414,600.00
Mobilization (7.5% of Subtotals 1 & 2)	LS	1	\$777,285.00	\$777,300.00
Construction Staking (1% of Subtotals 1 & 2)	LS	1	\$103,638.00	\$103,700.00
SUBTOTAL 3				\$1,606,600.00

#### ENGINEERING PERCENTAGES

Incidentals (20% of Subtotals 1, 2, and 3)	20% INCIDENTALS	\$2,394,100.00
Contingency (10% of Subtotals 1, 2, and 3)	10% CONTINGENCY	\$1,197,100.00
	SUBTOTAL 4	\$3,591,200.00

TOTAL \$15,561,600.00

**GRAND TOTAL \$16,000,000.00**

1. Repair cost based on As-built conditions to achieve desired ratings and section losses documented in current inspection report. Repair costs for section losses increased by 25% to account for a future detailed in-depth inspection.

2. Unit price includes excavation, construction of concrete vault for gate and equipment, 4' high steel gate and gate guide

3. Machinery needs to be modified to avoid interference due to added dead load/increased swing span end deflection.