

Mansfield Middle School Roof Replacement & Photovoltaic Project						02-Dec-20				
20 Spring Hill Road, Storrs, Connecticut 06268						JOB NO: 20.087				
Owner: Town of Mansfield										
100% CONSTRUCTION DOCUMENT DESIGN										
OPINION OF PROBABLE CONSTRUCTION COST						MOD. BIT ROOFING MEMBRANE				
90,516 (SQARE FEET)						CT STATE PROJECT #				
SECTION NUMBER	WORK CATEGORIES	QTY.	UNIT	MATERIAL COST		LABOR COST		ALLOWANCE	TOTAL \$	CT INELIGIBLE
				UNIT \$	TOTAL	UNIT \$	TOTAL			
<b>OTHER COSTS</b>										
	STATE PERMIT FEE (.26 PER 1,000)	1	LS					\$705.00	\$705	\$705
	INSURANCE	1	LS					\$18,000.00	\$18,000	\$18,000
<b>OTHER SUB-TOTAL</b>								\$18,705		<b>TOTAL: \$18,705</b>
<b>DIVISION TWO</b>										
	DUMPSTERS	10	EA	\$1,000.00	\$10,000				\$10,000	\$0
	EXISTING ROOF INSULATION	90,516	SF		\$0	\$1.50	\$135,774		\$135,774	\$0
	DEMO - WOOD BLOCKING	6,800	LF	\$0.00	\$0	\$5.00	\$34,000		\$34,000	\$0
	HAZ-MAT ABATEMENT	1	LS						\$20,000	\$0
	CRANE RENTAL (UNIT LIFTING)	1	LS				\$25,000		\$25,000	\$0
	DEMO - METAL FLASHING	6,800	LF			\$4.00	\$27,200		\$27,200	\$0
<b>DIVISION TWO SUB-TOTAL</b>								\$251,974		<b>TOTAL: \$0</b>
<b>DIVISION FIVE</b>										
	METAL FLASHING	6,800	LF	\$15.00	\$102,000	\$9.00	\$61,200		\$163,200	\$0
	STEEL CONNECTIONS & REINFORCING FOR PV SYS	1	LS	\$10,000	\$10,000	\$40,000	\$40,000		\$50,000	\$0
	METAL WALL PANELS	1	LS				\$25,000		\$25,000	\$0
	SAW CUTTING FOR REGLETS & METAL	1,000	LF	\$4.45	\$4,450	\$4.00	\$4,000		\$8,450	\$0
	5% TOTAL DECK REPLACEMENT ALLOWANCE	1	EA				\$40,000	\$	\$40,000	\$40,000
<b>DIVISION FIVE SUB-TOTAL</b>								\$286,650		<b>TOTAL: \$40,000</b>
<b>DIVISION SIX</b>										
	PERIMETER WOOD BLOCKING	6,800	BF	\$3.00	\$20,400	\$2.00			\$20,400	\$0
	MECH. UNIT WOOD BLOCKING	1,500	BF	\$3.50	\$5,250	\$2.00	\$3,000		\$8,250	\$0
<b>DIVISION SIX SUB-TOTAL</b>								\$	28,650	<b>TOTAL: \$0</b>
<b>DIVISION SEVEN</b>										
	BASE LAYER INSULATION (5" THICK)	90,516	SF	\$2.50	\$226,290	\$1.10	\$99,568		\$325,858	\$0
	TAPERED INSULATION INSULATION (6" THICK)	20,000	SF	\$2.00	\$40,000	\$1.50	\$30,000		\$70,000	\$0
	COVERBOARD	90,516	SF	\$0.75	\$67,887	\$1.00	\$90,516		\$158,403	\$0
	MOD. BIT ROOFING MEMBRANE	90,516	SF	\$2.20	\$199,135	\$2.00	\$181,032		\$380,167	\$0
	VENT STACKS	40	EA	\$25.00	\$1,000	\$60.00	\$2,400		\$3,400	\$0
	PITCH POCKET	50	EA	\$25.00	\$1,250	\$25.00	\$1,250		\$2,500	\$0
	SLIP SHEETS & PITCH POCKETS FOR PV SYSTEM	1	LS					\$150,000	\$150,000	\$0
	WALKWAY PADS	5,000	SF	\$2.00	\$10,000	\$4.00	\$20,000		\$30,000	\$0
	SEALANTS	1	LS					\$12,000	\$12,000	\$0
	MISC ROOF ACCESSORIES	1	LS					\$15,000	\$15,000	\$0
	ADHESIVES	1	LS					\$10,000	\$10,000	\$0
<b>DIVISION SEVEN SUB-TOTAL</b>								\$1,157,328		<b>TOTAL: \$0</b>
<b>DIVISION FIFTEEN</b>										
	ROOF DRAIN & SUMP	29	EA	\$400.00	\$11,600	\$300.00	\$8,700		\$20,300	\$0
	ROOF SCUPPER	12	EA	\$1,000.00	\$12,000	\$600.00	\$7,200		\$19,200	\$0
<b>DIVISION FIFTEEN SUB-TOTAL</b>								\$39,500		<b>TOTAL: \$0</b>
<b>DIVISION TWENTY SIX</b>										
	PV PANELS	1	LS	\$65,000	\$65,000	\$0.00	\$0		\$65,000	\$0
	INVERTERS	1	LS	\$25,000	\$25,000	\$0.00	\$0		\$25,000	\$0
	RACKING	1	LS	\$25,000	\$25,000	\$0.00	\$0		\$25,000	\$0
	ELECTRICAL COMPONENTS	1	LS	\$40,000	\$40,000	\$0.00	\$0		\$40,000	\$0
	DIRECT INSTALL LABOR	1	LS	\$0	\$0	\$85,000	\$85,000		\$85,000	\$0
<b>DIVISION TWENTY SIX SUB-TOTAL</b>								\$240,000		<b>TOTAL: \$0</b>
<b>CONSTRUCTION COST PER SQUARE FOOT = \$27.93</b>										
<b>SUBTOTAL =</b>								\$2,022,807		<b>TOTAL: \$58,705</b>
<b>GEN. CONDITIONS</b>								10.00%	\$202,281	\$4,696
<b>OVERHEAD &amp; PROFIT</b>								15.00%	\$303,421	\$7,045
<b>Subtotal</b>									\$2,528,509	
<b>CONSTRUCTION TOTAL =</b>								\$2,528,509		<b>TOTAL: \$70,446</b>
<b>A/E FEES =</b>								\$67,150		\$1,559
<b>ENVIRONMENTAL FEE</b>								\$0		\$0
<b>CONTINGENCY =</b>								8.00%	\$204,341	\$204,341
<b>GRAND TOTAL</b>								\$2,800,000		<b>TOTAL: \$276,346</b>

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