

**Lynchburg Covered Bridge Estimated Quantities**

Calculated By: _____	TML	Date: 5/12/2021	Job No.: 108922
Checked By: _____	CML	Date: 5/13/2021	Bridge No.: HIG-HIGST-0000
Project: Lynchburg Covered Bridge		SFN: _____	3661000

ESTIMATED QUANTITIES						CALC BY: TML	DATE: 5/12/2021
						CHECK BY: CML	DATE: 5/13/2021
ITEM	EXT	QUANTITY (01/STR/BR)	UNIT	ALTERNATE	DESCRIPTION		
<b>STRUCTURE REPAIR (HIG-HIGST-00.00)</b>							
202	11203	1	LS		PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN		
202	23000	38	SY		PAVEMENT REMOVED		
203	20000	17	CY		EMBANKMENT		
204	10000	38	SY		SUBGRADE COMPACTION		
301	46000	5	CY		ASPHALT CONCRETE BASE, PG64-22		
304	20000	7	CY		AGGREGATE BASE		
407	10000	7	GAL		TACK COAT		
441	10000	4	CY		ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (446), PG64-22		
503	21300	1	LS		UNCLASSIFIED EXCAVATION		
511	45710	6	CY		CLASS QC1 CONCRETE, ABUTMENT		
513	10001	1	LS		STRUCTURAL STEEL MEMBERS, LEVEL UF, AS PER PLAN		
514	27700	4,613	SF		FIELD PAINTING, MISC.: WOOD STAIN, AS PER PLAN		
514	27800	1	LS		FIELD PAINTING, MISC.: FIRE RETARDENT, AS PER PLAN		
516	41100	4	EACH		1/8" PREFORMED BEARING PAD		
516	47000	1	LS		JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE		
530 SPECIAL	00200	1	LS		STRUCTURE, MISC.: REINSTALL DEDICATION SIGN AND MESSAGE BOARD		
530 SPECIAL	00600	1,780	SF		STRUCTURES, MISC.: TIMBER FLOORING (DECKING)		
530 SPECIAL	00600	4,613	SF		STRUCTURES, MISC.: BOARD AND BATTEN SIDING		
530 SPECIAL	00600	3,053	SF		STRUCTURES, MISC.: DOUBLE LOCK STANDING SEAM METAL ROOFING		
530 SPECIAL	00600	40	SF		STRUCTURES, MISC.: RESET OR REPLACE SUBSTRUCTURE STONES		
530 SPECIAL	01300	300	FT		STRUCTURES, MISC.: REPOINTING MORTAR JOINTS		
530 SPECIAL	10700	0.03	MFBM		STRUCTURES, MISC.: BEARING BLOCKS		
530 SPECIAL	10700	1.76	MFBM		STRUCTURES, MISC.: TIMBER ROOF SYSTEM		
530 SPECIAL	10700	0.79	MFBM		STRUCTURES, MISC.: MISCELLANEOUS FRAMING		
530 SPECIAL	10700	8.56	MFBM		STRUCTURES, MISC.: RESTORATION OF TIMBER TRUSS		
530 SPECIAL	10700	9.09	MFBM		STRUCTURES, MISC.: FLOOR SUPPORT		
530 SPECIAL	10700	2.02	MFBM		STRUCTURES, MISC.: ADDITIONAL TIMBER		
601	10990	140	SY		RIPRAP, TYPE C		
607	98000	120	FT		FENCE MISC.: WOOD FENCE		
613	41200	7	CY		LOW STRENGTH MORTAR BACKFILL		
625	98200	1	LS		LIGHTING, MISC.: REMOVE AND RESET LIGHTING, ELECTRICAL FEEDS, AND CAMERAS		
659	98700	1	LS		SEEDING, MISC.: SEEDING, MULCHING, AND PROJECT CLEANUP		
<b>INCIDENTALS</b>							
103	05000	1	LS		PREMIUM FOR CONTRACT PERFORMANCE AND PAYMENT BOND		
614	11001	1	LS		MAINTAINING TRAFFIC, AS PER PLAN		
624	10000	1	LS		MOBILIZATION		
<b>ADDITIVE ALTERNATE 1: HISTORICAL MARKER</b>							
530 SPECIAL	00400	1	EACH	X	STRUCTURES, MISC.: HISTORICAL MARKER		

<b>202</b>	<b>23000</b>	<b>38</b>	<b>SY</b>	<b>PAVEMENT REMOVED</b>
rear		10.00	ft	length
		14.71	ft	width
		147.08	sq ft	area
fwd		10.00	ft	length
		18.88	ft	width
		188.75	sq ft	area
		335.83	sq ft	total area
		<b>38.00</b>	<b>cu yd</b>	<b>total area</b>
<b>203</b>	<b>20000</b>	<b>17</b>	<b>CY</b>	<b>EMBANKMENT</b>
NW Corner		35.13	sq ft	approx. surface area (from ORD)
		4.00	ft	approx. avg. depth
		140.52	cu ft	volume at corner
		6	cu yd	
NE Corner		38.53	sq ft	approx. surface area (from ORD)
		6.00	ft	approx. avg. depth
		231.18	cu ft	volume at corner
		9	cu yd	
SW Corner		11.23	sq ft	approx. surface area (from ORD)
		4.00	ft	approx. avg. depth
		44.92	cu ft	volume at corner
		2	cu yd	
		<b>17.00</b>	<b>cu yd</b>	<b>total volume</b>
<b>204</b>	<b>10000</b>	<b>38</b>	<b>SY</b>	<b>SUBGRADE COMPACTION</b>
rear		10.00	ft	length
		14.71	ft	width
		147.08	sq ft	area
fwd		10.00	ft	length
		18.88	ft	width
		188.75	sq ft	area
		335.83	sq ft	total area
		<b>38.00</b>	<b>cu yd</b>	<b>total area</b>
<b>301</b>	<b>46000</b>	<b>5</b>	<b>CY</b>	<b>ASPHALT CONCRETE BASE, PG64-22</b>
rear		10.00	ft	length
		14.71	ft	width
		147.08	sq ft	area
fwd		10.00	ft	length
		18.88	ft	width
		188.75	sq ft	area
		335.83	sq ft	total area
		4.00	in	depth
		111.94	cu ft	volume
		<b>5.00</b>	<b>cu yd</b>	<b>total volume</b>
<b>304</b>	<b>20000</b>	<b>7</b>	<b>CY</b>	<b>AGGREGATE BASE</b>
rear		10.00	ft	length
		14.71	ft	width
		147.08	sq ft	area
fwd		10.00	ft	length
		18.88	ft	width
		188.75	sq ft	area
		335.83	sq ft	total area
		6.00	in	depth
		167.92	cu ft	volume
		<b>7.00</b>	<b>cu yd</b>	<b>total volume</b>
<b>407</b>	<b>10000</b>	<b>7</b>	<b>GAL</b>	<b>TACK COAT</b>
rear		10.00	ft	length
		14.71	ft	width
		147.08	sq ft	area
fwd		10.00	ft	length
		18.88	ft	width
		188.75	sq ft	area
		335.83	sq ft	total area
		37.31	sq yd	total area
		0.09	gal/sq yd	application rate
		2.00	each	applications
		<b>7.00</b>	<b>cu yd</b>	<b>total volume</b>

<b>441</b>	<b>10000</b>	<b>4</b>	<b>CY</b>	<b>ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (446), PG64-22</b>
rear		10.00	ft	length
		14.71	ft	width
		147.08	sq ft	area
fwd		10.00	ft	length
		18.88	ft	width
		188.75	sq ft	area
		335.83	sq ft	total area
		3.00	in	depth
		83.96	cu ft	volume
		4.00	cu yd	total volume
<b>511</b>	<b>45710</b>	<b>6</b>	<b>CY</b>	<b>CLASS QC1 CONCRETE, ABUTMENT</b>
cap		4.50	ft	width
		1.00	ft	thickness
		20.00	ft	length
		90.00	cu ft	volume
backwall		1.50	ft	width
		2.33	ft	thickness
		20.00	ft	length
		70.00	cu ft	volume
		160.00	cu ft	volume
		6.00	cu yd	total volume
<b>514</b>	<b>27700</b>	<b>4613</b>	<b>SF</b>	<b>FIELD PAINTING, MISC.: WOOD STAIN, AS PER PLAN</b>
		4193.65	sq ft	total area
		10.00	%	contingency
		4613.02	sq ft	total area
<b>516</b>	<b>41100</b>	<b>3</b>	<b>EACH</b>	<b>1/8" PREFORMED BEARING PAD</b>
rear		5.00	ft	length
		14.71	ft	width
		73.54	sq ft	area
fwd		5.00	ft	length
		18.88	ft	width
		94.38	sq ft	area
		167.92	sq ft	total area
		4.00	in	depth
		55.97	cu ft	volume
		3.00	cu yd	total volume
<b>530 SPECIAL</b>	<b>00600</b>	<b>1780</b>	<b>SF</b>	<b>STRUCTURES, MISC.: TIMBER FLOORING (DECKING)</b>
		16.58	ft	width of decking
		107.33	ft	length of span
		1779.94	sq ft	total area of end span decking
		1780.00	sq ft	total area of decking
<b>530 SPECIAL</b>	<b>00600</b>	<b>4613</b>	<b>SF</b>	<b>STRUCTURES, MISC.: BOARD AND BATTEN SIDING</b>
left + right outside		15.33	ft	siding height
		120.50	ft	siding length max at top
		110.50	ft	siding length min at bottom
		1771	sq ft	area per side
		2.00	ea	number of sides
		3542	sq ft	area of left and right sides
left + right inside		13.67	ft	siding height
		9.50	ft	siding length max at top
		4.50	ft	siding length min at bottom
		95.67	sq ft	area per side
		2.00	ea	number of ends per side
		2.00	ea	number of sides
		382.67	sq ft	area of left and right sides
rear + forward	triangle within r	6.48	ft	roof height
		22.58	ft	roof width (out-to-out)
		73.16	sq ft	area of triangle above opening
	below roof line	15.33	ft	height to knee brace
		2.00	ft	width at column
		2.00	ea	number of columns
		61.33	sq ft	area at columns
		134.49	sq ft	area per end
		2.00	ea	number of end areas
		268.99	sq ft	area of rear and forward
		4193.65	sq ft	total area
		10.00	%	contingency
		4613.02	sq ft	total area

<b>530 SPECIAL</b>	<b>00600</b>	<b>3053</b>	<b>SF</b>	<b>STRUCTURES, MISC.: DOUBLE LOCK STANDING SEAM METAL ROOFING</b>
		120.50	ft	length of structure
		12.67	ft	length of roofing per side of eave
		2.00	ea	side of roof
		3052.666667	sq ft	area per side
		<b>3052.67</b>	<b>sq ft</b>	<b>total area</b>
<b>601</b>	<b>10990</b>	<b>140</b>	<b>SY</b>	<b>RIPRAP, TYPE C</b>
Rear Abut		741.75	sq ft	approx. surface area (from ORD)
Fwd Abut		520.59	sq ft	approx. surface area (from ORD)
		1262.34	sq ft	total volume
		<b>140.26</b>	<b>sq yd</b>	<b>total volume</b>
<b>607</b>	<b>98000</b>	<b>120</b>	<b>FT</b>	<b>FENCE MISC.: WOOD FENCE</b>
		20.00	ft	NE
		20.00	ft	NW
		60.00	ft	SE
		20.00	ft	SW
		<b>120.00</b>	<b>sq yd</b>	<b>total volume</b>
<b>613</b>	<b>41200</b>	<b>7</b>	<b>CY</b>	<b>LOW STRENGTH MORTAR BACKFILL</b>
Behind rear abutment		4.68	sq ft	approx. surface area (from ORD)
		14.71	ft	width
		68.88693	cu ft	volume at corner
		3	cu yd	
Behind fwd abutment		4.68	sq ft	approx. surface area (from ORD)
		18.88	ft	width
		88.391625	cu ft	volume at corner
		4	cu yd	
		<b>7.00</b>	<b>cu yd</b>	<b>total volume</b>