

**STRUCTURE QUANTITY CALCULATIONS
BRIDGE No. COL-PARK DRIVE
SFN 1560346
PARK DRIVE OVER LESLIE RUN**

Prepared for:
**Village of East Palestine
85 North Market Street
East Palestine, OH 44413**



Prepared by:
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Project Park Drive Bridge over Leslie Run Calculated By TVB Date 04/29/21
 Description ESTIMATED BRIDGE QUANTITIES Checked By SJR Date 01/12/22
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ITEM	EXTENSION	UNIT	DESCRIPTION
202	11003	LUMP	STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN
		<u>LS</u>	

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ITEM	EXTENSION	UNIT	DESCRIPTION
503	11100	LUMP	COFFERDAMS AND EXCAVATION BRACING
		<u>LS</u>	

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ITEM	EXTENSION	UNIT	DESCRIPTION
503	21101	CY	UNCLASSIFIED EXCAVATION, AS PER PLAN
	ABUTMENTS	44.83	FT LENGTH
		10	FT WIDTH
		6.6	FT AVG. HEIGHT
		2	EA NO. OF ABUTMENTS
		5918	CF VOLUME
	WINGWALLS	3.94	FT LENGTH
		3.5	FT WIDTH
		5.5	FT AVG. HEIGHT
		4	EA NO. OF ABUTMENTS
		303	CF VOLUME
		<u>230</u>	<u>CY</u>

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ITEM	EXTENSION	UNIT	DESCRIPTION
505	11100	LS	PILE DRIVING EQUIPMENT MOBILIZATION
<u>LS</u>			

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ITEM	EXTENSION	UNIT	DESCRIPTION							SUB TOTAL	TOTAL
507	00100	FT	STEEL PILES HP10X42, FURNISHED								
										Rear Abutment	
	Estimated Length (ft)	# of Piles	Length (ft)								
	50.0	11	550.0								550.00
										Forward Abutment	
	Estimated Length (ft)	# of Piles	Length (ft)								
	45.0	11	495.0								495.00
										TOTAL	
											1,045

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ITEM	EXTENSION	UNIT	DESCRIPTION							SUB TOTAL	TOTAL
507	00150	FT	STEEL PILES HP10X42, DRIVEN								
										Subtotal	
										495.00	
										440.00	
										935	

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ITEM	EXTENSION	UNIT	DESCRIPTION								SUB TOTAL		TOTAL
507	93300	EACH	STEEL POINTS OR SHOES										
			Rear Abutment										
			# of Piles										
			11										11.00
			Forward Abutment										
			# of Piles										
			11										11.00
											TOTAL	22	

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ITEM	EXTENSION	UNIT	DESCRIPTION
509	10000	POUND	EPOXY COATED REINFORCING STEEL
			LBS.
			SUPERSTRUCTURE 5923
			ABUTMENTS 15512
			SIDEWALK AND CURB 2274
			PARAPETS N/A
			RAILING* N/A

*RAILING REINFORCING ON BRIDGE INCLUDED FOR PAYMENT WITH ITEM 517E75120

TOTAL 23,709 LB

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ITEM	EXTENSION	UNIT	DESCRIPTION
511	31610	CU YD	CLASS QC2 CONCRETE, SUPERSTRUCTURE
	1621	FT	DECK AREA (FROM CADD)
	36.83	FT	DECK WIDTH
	0.50	FT	DECK THICKNESS
	0.322	SF	AREA DUE TO CAMBER (1ST HALF OF SPAN)
	0.322	SF	AREA DUE TO CAMBER (2ND HALF OF SPAN)
	<u>834.0</u>	CF	DECK VOLUME
	1.58	FT	DIAPHRAGM HT (SUBTRACTED DECK THICKNESS)
	36.8	FT	DIAPHRAGM LENGTH
	1.0	FT	DIAPHRAGM WIDTH
	<u>58.3</u>	CF	DIAPHRAGM VOLUME (REAR Only)
	<u>- 0.0</u>	CF	DEDUCT FOR APPR SLAB SEAT
	892.3	CF	TOTAL SUPERSTRUCTURE CONCRETE VOLUME
	<u>34.0</u>	CY	SUPERSTRUCTURE CONCRETE VOLUME

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ITEM	EXTENSION	UNIT	DESCRIPTION						
511	34448	CY	CLASS QC2 CONCRETE BRIDGE DECK (PARAPET)						
<u>BARRIER</u>	LEFT REAR	26.5	SQ FT	AREA (FROM CADD)					
		1.25	FT	WIDTH					
		33.1	CF	VOLUME					
	LEFT FWD	27	SQ FT	AREA (FROM CADD)					
		1.25	FT	WIDTH					
		33.8	CF	VOLUME					
	LEFT FWD	4.25	SQ FT	AREA (FROM CADD)					
		0.875	FT	WIDTH					
		3.7	CF	VOLUME					
	RIGHT REAR	32.9	SQ FT	AREA (FROM CADD)					
		1.25	FT	WIDTH					
		41.1	CF	VOLUME					
	RIGHT FWD	27.5	SQ FT	AREA (FROM CADD)					
		1.25	FT	WIDTH					
		34.4	CF	VOLUME					
	<u>CAPS</u>	LEFT REAR	7.06	FT	LENGTH	LEFT FWD	7.2	FT	LENGTH
			1.4	FT	WIDTH		1.4	FT	WIDTH
			0.5	FT	THICK.		0.5	FT	THICK.
4.9			CF	VOLUME	5.0		CF	VOLUME	
1.10			CF	TOP	1.12		CF	TOP	
RIGHT REAR		8.8	FT	LENGTH	RIGHT FWD	7.3	FT	LENGTH	
		1.4	FT	WIDTH		1.4	FT	WIDTH	
		0.5	FT	THICK.		0.5	FT	THICK.	
		6.2	CF	VOLUME		5.1	CF	VOLUME	
		1.37	CF	TOP		1.13	CF	TOP	
TOTAL VOL = 172.06		CF							
<u>7.0</u>		CY	SUPERSTRUCTURE CONCRETE VOLUME						

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ITEM	EXTENSION	UNIT	DESCRIPTION
511	43512	CU YD	CLASS QC1 CONCRETE WITH QC/QA, ABUTMENT INCLUDING FOOTING
BREASTWALLS:	7.804	FT	AVG. HEIGHT OF REAR ABUTMENT BREASTWALL
	7.333	FT	AVG. HEIGHT OF FORWARD ABUTMENT BREASTWALL
	36.83	FT	REAR ABUTMENT BREASTWALL LENGTH
	36.83	FT	FORWARD ABUTMENT BREASTWALL LENGTH
	3.00	FT	REAR ABUTMENT THICKNESS
	2.50	FT	FORWARD ABUTMENT THICKNESS
	1537.6	CU FT	VOLUME
FOOTINGS:	342.7	FT	Rear Ftg Plan Area
	342.7	FT	Fwd Ftg Plan Area
	3.0	FT	Rear Ftg Thk
	3.0	FT	Fwd Ftg Thk
	2056.0	CU FT	VOLUME
WINGWALLS:	83	SQ FT	REAR ABUT. SW WINGWALL SURFACE AREA
	83	SQ FT	REAR ABUT. SE WINGWALL SURFACE AREA
	84	SQ FT	FORWARD ABUT. NW WINGWALL SURFACE AREA
	75	SQ FT	FORWARD ABUT. NE WINGWALL SURFACE AREA
	1.5	FT	WINGWALL THICKNESS
	487.4	CU FT	VOLUME
		<u>151</u>	<u>CU YD</u>

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ITEM	EXTENSION	UNIT	DESCRIPTION
511	51511	CU YD	CLASS QC2 CONCRETE, SIDEWALK, AS PER PLAN
	On Deck: 44	FT	DECK LENGTH
			EAST SIDEWALK
	6.42	FT	SIDEWALK WIDTH
	0.77	FT	AVG. SIDEWALK THICKNESS
	1		NO. OF SIDES
			WEST CURB
	2.42	FT	CURB WIDTH
	0.67	FT	AVG. CURB THICKNESS
	1		NO. OF SIDES
	<u>288.1</u>	CF	VOLUME
	On Appr Slabs:		
			EAST SIDEWALK
	34.97	FT	LENGTH
	5	FT	SIDEWALK WIDTH
	0.47	FT	AVG. SIDEWALK THICKNESS
	1		NO. OF SIDES
			WEST CURB
	15.72	FT	LENGTH
	2.163	FT	AVG. CURB WIDTH
	0.58	FT	AVG. CURB THICKNESS
	1		NO. OF SIDES
	<u>102.3</u>	CF	VOLUME
	<u>14</u>	CY	VOLUME

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ITEM	EXTENSION	UNIT	DESCRIPTION
512	10050	SQ YD	SEALING OF CONCRETE SURFACES (NON-EPOXY)
			SIDEWALK ON DECK:
			LT. SIDEWALK LENGTH = 36.79 FT
			RT. SIDEWALK LENGTH = 36.79 FT
			PERIMETER = 6.54 FT
			TOTAL AREA = 481.2 SF
			SIDEWALK ON APPROACH SLABS:
			LT. SIDEWALK LENGTH = 50 FT
			RT. SIDEWALK LENGTH = 50 FT
			PERIMETER = 6.5 FT
			TOTAL AREA = 650 SF
			<u>126</u> SY AREA

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ITEM	EXTENSION	UNIT	DESCRIPTION
512	10100	SQ YD	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)
			ABUTMENT AND WINGWALL:
			REAR ABUTMENT:
	486.0	SQ FT	AREA REAR ABUTMENT FACE
			WINGWALLS
	41.17	FT	TOP LENGTH TO BE SEALED (Both Sides)
	1.5	FT	WALL THICKNESS
	0.5	FT	ADD 6" BEHIND WALL
	82.3	SQ FT	AREA OF TOP AND BEHIND WALL
	<u>568.3</u>	SQ FT	REAR SUBTOTAL
			FORWARD ABUTMENT:
	512.0	SQ FT	AREA FORWARD ABUTMENT FACE
			WINGWALLS
	42	FT	TOP PERIMETER TO BE SEALED
	1.5	FT	WALL THICKNESS
	0.5	FT	ADD 6" BEHIND WALL
	84	SQ FT	AREA OF TOP AND BEHIND WALL
	<u>596.0</u>	SQ FT	FORWARD SUBTOTAL
			DECK AND RAILING:
	1	FT	BEAM DEPTH
	0.5	FT	DECK THICKNESS
	4	FT	BEAM UNDERSIDE (BDM REQUIREMENT)
	71.46	FT	TWICE THE BEAM LENGTH (BOTH SIDES)
	228.88	SF	LT. RAILING AREA (N&F FACE AND TOP/SIDES)
	234.67	SF	RT. RAILING AREA (N&F FACE AND TOP/SIDES)
	<u>856.58</u>	SQ FT	DECK SUBTOTAL
			<u>225</u> SY

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ITEM	EXTENSION	UNIT	DESCRIPTION
512	75010	SQ FT	SPECIAL - SEALING, MISC.: ARCHITECTURAL STAINING
	RAILING		
	88	SF	LT. RAILING ON DECK AREA
	88	SF	RT. RAILING ON DECK AREA
	72	SF	PILASTERS (ASSUME 4.5' HT. x 4' LENGTH IN 4 LOC.)
	26.145	SF	LT. RAILING ON APPROACH AREA (ASSUME 42" HT.)
	27.125	SF	RT. RAILING ON APPROACH AREA (ASSUME 42" HT.)
	2		NO. OF FACES TO BE STAINED PER RAILING
	17.5	SF	PILASTER FRONT/BACK EXPOSED FACE
	17.5	SF	RAILING ON APPROACH ENDS
	<u>676.54</u>	SQ FT	RAILING TOTAL
			<u>677</u> SF

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ITEM	EXTENSION	UNIT	DESCRIPTION
515	12031	EACH	PRESTRESSED CONCRETE COMPOSITE BOX BEAM BRIDGE MEMBERS, LEVEL 1, CB17-48, AS PER PLAN (LENGTH = 42.92')
		<u>9</u> EACH	

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ITEM	EXTENSION	UNIT	DESCRIPTION
516	12302	FT	STRIP SEAL EXPANSION JOINT ANCHORED WITH ELASTOMERIC CONCRETE
	36.83	FT	LENGTH
	1		SIDES
		<u>37</u>	<u>FT</u>

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ITEM	EXTENSION	UNIT	DESCRIPTION
516	12310	LB	SIDEWALK COVER PLATE
	4.57	FT	EAST SIDEWALK LENGTH
	0	FT	WEST CURB LENGTH
	4.57	FT	TOTAL LENGTH
	0.375	IN	PLATE THICK.
	1.5	FT	PLATE WIDTH
	1.0	POUND	(10) STAINLESS STEEL ANCHORS
	106		WEIGHT
		<u>106</u>	<u>LB</u>

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ITEM	EXTENSION	UNIT	DESCRIPTION
516	13600	SQ FT	1" PREFORMED EXPANSION JOINT FILLER
			BETWEEN EACH WINGWALLS AT BRIDGE LIMITS
	3.83	FT	HEIGHT
	1.25	FT	WIDTH
	4		NUMBER OF LOCATIONS
	19.2	SQ FT	TOTAL
			BETWEEN DECK AND APP. SLAB AT F.A.
	1.85	FT	DEPTH UNDER ROADWAY
	28	FT	LENGTH UNDER ROADWAY
	2.6	FT	DEPTH UNDER SIDEWALK AND CURB
	8.50	FT	LENGTH UNDER SIDEWALK AND CURB
	73.9	SQ. FT	TOTAL
			<u>94 SQ FT</u>

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ITEM	EXTENSION	UNIT	DESCRIPTION
516	13900	SF	2" PREFORMED EXPANSION JOINT FILLER
			BETWEEN EACH WINGWALL AND BEAM
	2.1	FT	DEPTH OF BEARINGS + BEAMS + DECK
	1.75	FT	LENGTH
	4		NUMBER OF WINGWALLS
	14.7	SQ FT	TOTAL
			BETWEEN WINGWALL AND APP. SLAB (REAR AND FORWARD)
	1.25	FT	DEPTH
	6.5	FT	LENGTH (LEFT REAR)
	6.5	FT	LENGTH (RIGHT REAR)
	7.5	FT	LENGTH (LEFT FWD.)
	6.25	FT	LENGTH (RIGHT FWD.)
	26.75	FT	TOTAL LENGTH
	33.4	SQ FT	TOTAL
			ADD AREA AT APPR SLAB HAUNCH NEAR SEAT
	0.85	FT	DEPTH
	1.7	FT	LENGTH
	4		NUMBER OF LOCATIONS
	5.8	SQ. FT	TOTAL
			<u>54 SF</u>

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ITEM	EXTENSION	UNIT	DESCRIPTION
516	25000	SF	NYLON REINFORCED NEOPRENE SHEETING
	REAR ABUT.:	4.0 FT	LENGTH
		3.0 FT	WIDTH
		<u>2</u>	NO. OF LOCATIONS
		24	SF
	R.A. @ APP. SLAB:	2.75 FT	LENGTH
		3.0	WIDTH
		<u>2</u>	NO. OF LOCATIONS
		16.5	SF
	FWD. ABUT.:	4.0 FT	LENGTH
		3.0 FT	WIDTH
		<u>2</u>	NO. OF LOCATIONS
		24	SF
		<u>65</u>	<u>SF</u>

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ITEM	EXTENSION	UNIT	DESCRIPTION
516	43101	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES ONLY (NEOPRENE), AS PER PLAN
		9	NUMBER OF BEAMS
		2	ENDS OF BRIDGE
		2	BEARINGS PER END
		<u>36</u>	<u>EACH</u>

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ITEM	EXTENSION	UNIT	DESCRIPTION
517	75120	FT	RAILING (CONCRETE PARAPET WITH TWIN STEEL TUBE RAILING)
		Length Left Side	44 FT
		Length Right Side	44 FT
			<u>88.00 FT</u>

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ITEM	EXTENSION	UNIT	DESCRIPTION
518	40000	FT	6" PERFORATED CORRUGATED PLASTIC PIPE
	50.17	FT	LENGTH BEHIND REAR ABUTMENT
	50.83	FT	LENGTH BEHIND FORWARD ABUTMENT
		<u>101</u>	<u>FT</u>

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ITEM	EXTENSION	UNIT	DESCRIPTION
518	40010	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS
		10 FT	AT REAR ABUTMENT LEFT WINGWALL
		10 FT	AT REAR ABUTMENT RIGHT WINGWALL
		10 FT	AT FORWARD ABUTMENT LEFT WINGWALL
		10 FT	AT FORWARD ABUTMENT RIGHT WINGWALL
		<u>40</u>	<u>FT</u>

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ITEM	EXTENSION	UNIT	DESCRIPTION
526	25000	SY	REINFORCED CONCRETE APPROACH SLABS (T=15")
	863.1	SF	REAR APPROACH AREA (CADD)
	863.6	SF	FWD APPROACH AREA (CADD)
	1727	SQ FT	
			<u>192 SY</u>

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ITEM	EXTENSION	UNIT	DESCRIPTION
526	90010	FT	TYPE A INSTALLATION
	33.61	FT	AT REAR APPROACH SLAB
	34.04	FT	AT FORWARD APPROACH SLAB
<u>68</u>			<u>FT</u>

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ITEM	EXTENSION	UNIT	DESCRIPTION
SPECIAL	530E00200	LUMP	SPECIAL - STRUCTURES: VIBRATION MONITORING
		<u>LS</u>	

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ITEM	EXTENSION	UNIT	DESCRIPTION
SPECIAL	530E13000	SQ FT	SPECIAL - FORM LINER
	RAILING		
	88	SF	LT. RAILING ON DECK AREA
	88	SF	RT. RAILING ON DECK AREA
	72	SF	PILASTERS (ASSUME 4.5' HT. x 4' LENGTH IN 4 LOC.)
	54.145	SF	LT. RAILING ON APPROACH AREA (ASSUME 42" HT.)
	55.125	SF	RT. RAILING ON APPROACH AREA (ASSUME 42" HT.)
	2		NO. OF FACES TO BE STAINED PER RAILING
	17.5	SF	PILASTER FRONT/BACK EXPOSED FACE
	17.5	SF	RAILING ON APPROACH ENDS
	<u>788.54</u>	SQ FT	RAILING TOTAL
			<u>789</u> SF

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ITEM	EXTENSION	UNIT	DESCRIPTION
846	00110	CF	POLYMER MODIFIED ASPHALT EXPANSION JOINT SYSTEM
		20 INCH	WIDTH
		3 INCH	DEPTH
		34 FEET	LENGTH
		2 EACH	PLACES (REAR & FWD APPROACH SLAB)
		<u>29</u>	<u>CF</u>