

ERI-US 0006 Connectivity Corridor
US 6 over Sawmill Creek
ERI-00006-15.071

October 2025

Structure Quantities



Prepared for:



Ohio Department of Transportation
District 3
906 Clark Avenue
Ashland, OH 44805

Prepared by:

TRANSYSTEMS

1100 Superior Ave
Suite 1000
Cleveland, OH 44114

Project Number P403220071



Made by EA
Checked By HLD
Revised By _____

Date 2/19/2024
Date 3/4/2024
Date _____

Job: P403220071
ERI-00006-15.071
SFN 2201739

BRIDGE NO. ERI-00006-15.071 ESTIMATED QUANTITY CALCULATIONS

Item: 202 Ext.: 11203 Unit: LS

Item Description: PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN

Member Location : GENERAL

STRUCTURE REMOVED = LS

REAR ABUTMENT	LS
FORWARD ABUTMENT	LS
TOTAL	LS



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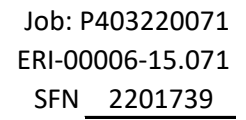
Item: 503 Ext.: 11101 Unit: LS

Item Description: COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN

Member Location : GENERAL

TEMPORARY WALLS = LS

REAR ABUTMENT	LS
FORWARD ABUTMENT	LS
TOTAL	LS





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BRIDGE NO. ERI-00006-15.071 ESTIMATED QUANTITY CALCULATIONS

Item: 509 Ext.: 10000 Unit: LB

Item Description: EPOXY COATED STEEL REINFORCEMENT

Member Location : ABUTMENTS

Location	WEIGHT ABUT (lb)	WEIGHT WW (lb)	WEIGHT TOTAL (lb)
REAR ABUTMENT	4075		4075
FORWARD ABUTMENT	3604		3604

4075 LB
3604 LB

REAR ABUTMENT 4075 LB
FORWARD ABUTMENT 3604 LB
TOTAL 7679 LB



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BRIDGE NO. ERI-00006-15.071 ESTIMATED QUANTITY CALCULATIONS

Item: 510 Ext.: 10000 Unit: EACH

Item Description: DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT

Member Location : ABUTMENTS

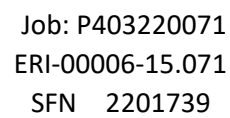
Location	Length (ft)	# Dowels	# Dowels
REAR ABUTMENT BEAM SEAT	10.48		18
REAR ABUTMENT BACKWALL	2.47		4
REAR ABUTMENT OVER FOOTING	8.64		18
REAR ABUTMENT SIDE FOOTING	9.00		22
Sum			62

62 EACH

Location	Length (ft)	# Dowels	# Dowels
FORWARD ABUTMENT BEAM SEAT	9.77		18
FORWARD ABUTMENT BACKWALL	2.44		4
FORWARD ABUTMENT OVER FOOTING	8.40		18
FORWARD ABUTMENT SIDE FOOTING	9.00		22
Sum			62

62 EACH

REAR ABUTMENT	62	EACH
FORWARD ABUTMENT	62	EACH
TOTAL	124	EACH





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BRIDGE NO. ERI-00006-15.071 ESTIMATED QUANTITY CALCULATIONS

Item: 512 Ext.: 10100 Unit: SY

Item Description: SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)

Member Location : ABUTMENT

Rear Abutment	Width (ft)	Length (ft)	Area (ft ²)	Area (ft ²)		18	SY			
Wingwall			59.71	59.71						
Wingwall Top	1.50	11.00		16.50						
Abutment Seat	3.00	15.80		47.40						
Abutment backwall	2.47	15.28		37.74						
Fillet										
Rear Abutment Total				161.35						
						16	SY			
Forward Abutment			Area (ft ²)	Area (ft ²)						
Wingwall			35.58	35.58						
Wingwall Top	1.50	14.00		21.00						
Abutment Seat	3.00	15.28		45.83						
Abutment backwall	2.44	15.53		37.90						
Forward Abutment Total				140.32		REAR ABUTMENT	18	SY		
				FORWARD ABUTMENT					16	SY



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BRIDGE NO. ERI-00006-15.071 ESTIMATED QUANTITY CALCULATIONS

Item: 512 Ext.: 33000 Unit: SY

Item Description: TYPE 2 WATERPROOFING

Member Location : ABUTMENT

Rear Abutment	Width (ft)	Length (ft)	Area (ft ²)	Area (ft ²)	8	SY
Wingwall	3.00	10.06		30.19		
Vertical Joint Existing	3.00	12.70		38.10		
Rear Abutment Total				68.29		
Forward Abutment			Area (ft ²)	Area (ft ²)	8	SY
Wingwall	3.00	10.86		32.58		
Vertical Joint Existing	3.00	12.23		36.69		
Forward Abutment Total				69.27		
REAR ABUTMENT				8	SY	
FORWARD ABUTMENT				8	SY	
TOTAL				16	SY	



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BRIDGE NO. ERI-00006-15.071 ESTIMATED QUANTITY CALCULATIONS

Item: 513 Ext.: 95020 Unit: LS

Item Description: STRUCTURAL STEEL, MISC.: PREFABRICATED TRUSS BRIDGE

Member Location : GENERAL

STRUCTURE REMOVED = LS

GENERAL LS

TOTAL LS



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BRIDGE NO. ERI-00006-15.071 ESTIMATED QUANTITY CALCULATIONS

Item: 516 Ext.: 10501 Unit: FT

Item Description: STRUCTURAL EXPANSION JOINT INCLUDING ELASTOMERIC COMPRESSION SEAL, AS PER PLAN

Member Location : ABUTMENT

Rear Abutment		Length (ft)		Length (ft)	
		10.33		10.33	
Rear Abutment Total				10.33	
Forward Abutment		Length (ft)		Length (ft)	
		10.33		10.33	
Forward Abutment Total				10.33	
					11 FT



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BRIDGE NO. ERI-00006-15.071 ESTIMATED QUANTITY CALCULATIONS

Item: 517 Ext.: 74001 Unit: FT

Item Description: RAILING, TIMBER, AS PER PLAN

Member Location : ABUTMENT

Rear Abutment				FT	15	EACH
		14.25		14.25		
Rear Abutment Total				14.25		
Forward Abutment	# Bearing	# Bolts		# Anchor Bolt		
		12.00		12.00		
Forward Abutment Total				12.00		
REAR ABUTMENT					15	EACH
FORWARD ABUTMENT					12	EACH
TOTAL					27	FT



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BRIDGE NO. ERI-00006-15.071 ESTIMATED QUANTITY CALCULATIONS

Item: 518 Ext.: 20000 Unit: SY

Item Description: PREFABRICATED GEOCOMPOSITE DRAIN

Member Location : ABUTMENT

Rear Abutment	Height (ft)	Length (ft)	Area (ft ²)	Area (ft ²)	24	SY	
Wingwall			99.13	99.13			
Wingwall top deducuted	-1.00	7.00		-7.00			
Beam seat	7.81	15.80		123.40			
Rear Abutment Total				215.52			
Forward Abutment	Height (ft)	Length (ft)	Area (ft ²)	Area (ft ²)	19	SY	
Wingwall			56.07	56.07			
Wingwall top deducuted	-1.00	3.92		-3.92			
Beam seat	7.37	15.28		112.60			
Forward Abutment Total				164.75			
REAR ABUTMENT						24	SY
FORWARD ABUTMENT						19	SY
TOTAL						43	SY

