



Subject:	Bridge St Final Tracing Quantities		
Date:	10/20/2025	Job No. :	20230339
Computed:	AI	Checked:	AJH
Sheet:	1 of		8

202E11003 STRUCTURE REMOVED, OVER 20 FOOT SPAN - LS

Structure Width	29.1666 ft
Bridge Limits	72 ft
Odor Estimating Unit Cost	\$15.00 /sf (2013)
Current Year	2025
Historic Inflation	1.42
Inflated Unit Cost	\$21.33 /sf
Estimated Cost	\$45,000.00

202E23500 WEARING COURSE REMOVED - SY

Area	192 sy
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503E11100 COFFERDAMS AND EXCAVATION BRACING - LS

MISC

Total \$	10,000.00 LS Cost
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503E11101 COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN, WALL 1 - LS

Temp Wall 1 Height	12.20 ft
Temp Wall 1 Length	35.53 ft
Wall 1 Ftg Length	9.85 ft
Wall 1 Area	276.79 sf
Temp Wall Unit Cost \$	25.00 \$/sf
Inflation Factor \$	1.42
Wall 1 Total Cost \$	15,000.00

503E11101 COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN, WALL 2 - LS

Temp Wall 2 Height	11.53 ft
Temp Wall 2 Length	43 ft
Wall 2 Ftg Length	31 ft
Wall 2 Area	426.61 sf
Temp Wall Unit Cost \$	25.00 \$/sf
Inflation Factor \$	1.42
Wall 2 Total Cost \$	20,000.00



Subject:	Bridge St Final Tracing Quantities		
Date:	10/20/2025	Job No. :	20230339
Computed:	AI	Checked:	AJH
Sheet:	2 of	8	

503E11101 COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN, WALL 3 - LS

Temp Wall 3 Height	11.99	ft
Temp Wall 3 Length	38.55	ft
Wall 3 Ftg Length	10.5	ft
Wall 3 Area	294.08	sf
Temp Wall Unit Cost	\$ 25.00	\$/sf
Inflation Factor	\$ 1.42	
Wall 3 Total Cost	\$ 15,000.00	

503E21300 UNCLASSIFIED EXCAVATION - LS

RA CAD Area	628.61	sf
RA AVG Depth	8.97	ft
FA CAD Area	435.21	sf
FA AVG Depth	11.03	ft
Volume	387	cy

EX GROUND EL @ ABUTMENT FOOTING	
RA	RA
937.37	938.097
943.24	939.589
938.09	939.399
939.84	936.154
942.78	939.03
940.17	
940.25	

505E11100 PILE DRIVING EQUIPMENT MOBILIZATION - LS

Total	1
\$	30,000.00 LS Cost

507E00300 STEEL PILES HP14X73, FURNISHED

R.A. footing Piles	20.00	each
bottom of footing el	931.28	ft
top of rock el	893.70	ft
Order Length	45.00	ft
F.A. footing Piles	14.00	each
bottom of footing el	928	ft
top of rock el	901.30	ft
Order Length	35.00	ft
Total Furnished Length	1390	ft

Furnished Length = order length* No of Piles
Order Length = estimated length + 5



Subject:	Bridge St Final Tracing Quantities		
Date:	10/20/2025	Job No. :	20230339
Computed:	AI	Checked:	AJH
Sheet:	3 of	8	

507E00350 STEEL PILES HP14X73, DRIVEN

R.A. footing Piles	20.00 each	
Estimated Length	40.00 ft	Drive length = Estimated Length x No of piles
F.A. footing Piles	14.00 each	
Estimated Length	30.00 ft	
Total Driven Length	1220 ft	

507E92200 PREBORED HOLES - FT

R.A. footing Piles	20.00 each
F.A. footing Piles	14.00 each
Prebored hole length	5.00 ft
Total Holes	170.00 ft

507E93300 STEEL POINTS OR SHOES - EA

Total	34 ea
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509E10000 EPOXY COATED REINFORCING STEEL - POUND

SUPER STRUCTURE =	9859 lbs
ABUTMENT =	13069 lbs
Total	22928 lb

511E31613 CLASS QC2 CONCRETE WITH QC/QA, SUPERSTRUCTURE, AS PER PLAN - CY**Deck**

Deck Width	32.000 ft			
Length	86.00 ft			
Average Deck Thickness	7.190 in			
RA Topping (in)	8.38	Mid Span Topping (in)	6	FA Topping (in)
			8.38	Average (in)
				7.19
Weighted Average	7.19			
Haunch	0 in			
Vol	1648.91 cf			

Diaphragm-Ends

Width	1.5 ft
Length	32.000 ft
Locations	2
Beam Depth	33 in
Vol	264.00 cf



Subject:	Bridge St Final Tracing Quantities		
Date:	10/20/2025	Job No. :	20230339
Computed:	AI	Checked:	AJH
Sheet:	4 of		8

Diaphragm-Sides

Width	3.000 ft
Length	1.500 ft
Avg Depth	3.784 ft

	RL	RR	FL	FR
Top of Wall El	943.24	943.14	940.43	940.53
Seat El	939.62	939.53	936.81	936.91
Brg Thick (in)	2	2	2	2
Depth	3.787	3.777	3.787	3.787

Locations	4
Vol	68.12 cf

Total	74 cy
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511E44112 CLASS QC1 CONCRETE WITH QC/QA, ABUTMENT NOT INCLUDING FOOTING - CY

Abutments (Including Wingwalls)

	RA	FA		
CAD Face Area	184.57	203.77	sf	
Thickness	3.00	3.00	ft	
CAD WW Area	89.78	71.437	sf	
Thickness	1.500	1.500	ft	
WW Area (2.5' thick)	30.73	32.71	ft	Northeast WW
Thickness	2.500	2.500	ft	
CAD WW Area	182.85	46.52	ft	
Thickness	1.500	2.500	ft	Northwest wingwall
Vol	1039.49	916.55	cf	

Total	73 cy
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511E46512 CLASS QC1 CONCRETE WITH QC/QA, FOOTING - CY

Footing depth	3 ft
R.A. Footing Plan Area	456.87 sf
F.A. Footing Plan Area	313.25 sf
Vol	2310.36 cf
Total	86 cy



Subject:	Bridge St Final Tracing Quantities		
Date:	10/20/2025	Job No. :	20230339
Computed:	AI	Checked:	AJH
Sheet:	5 of	8	

512E10100 SEALING OF CONCRETE SURFACES (EPOXY-URETHANE) - SY

Edge Perimeter 14.90 ft
Edge Length 86 ft
Area 1281.11 sf

Southwest Wingwall
Length = 25.43 ft
Backface area = 73.145 sf (back side average hieght + top + front face)
Area 111.29 sf

SouthEast Wingwall
Length 1 = 10 ft
Length 2 = 3.33 ft
Backface area1 = 35.54 sf
Backface area2 = 18.59 sf
Area = 82.46 sf

North East Wingwall
Length 1 = 7.5 ft
Length 2 = 3.33 ft
Backface area1 = 41.58 sf
Backface area2 = 22.21 sf
Area = 88.78 sf

North West wingwall
Length = 4.83
Backface area = 15.73 sf
Area 30.23 sf

Total = 312.76 sf

Rear Abutment
Length = 32 ft

Area 63.15 sf CADD Measured

FWD Abutment
Length = 32 ft

Area 53.67 sf CADD Measured

Diaphragm
Rear Abutment dia Length = 1.5 ft
Diaphragm width = 2.5 ft
Front and Back Face area = 20.69 sf
Area 24.44 sf



Subject:	Bridge St Final Tracing Quantities		
Date:	10/20/2025	Job No. :	20230339
Computed:	AI	Checked:	AJH
Sheet:	6 of	8	

fwd Abutment dia Length =	1.5 ft
Diaphragm width =	2.5 ft
Front and Back Face area =	20.69 sf
Area	24.44 sf
Total	196 sy

512E33000 TYPE 2 WATERPROOFING - SY

Width	3 ft	Rear Abut CJ Height	12.15
Rear Abut Wingwall Length	41.26 ft	Fwd Abut CJ Height	12.71
Fwd Abut WingwallLength	18.17 ft		
Total	29 sy		

515E12091 PRESTRESSED CONCRETE COMPOSITE BOX BEAM BRIDGE MEMBERS, LEVEL 1, CB33-48 , AS PER PLAN, (BEAM LENGTH = 84'-0") - EA

Number of Beams	8 ea
Comparable Cost	\$212,500.00 RECEIVED FROM PS SERVICES
Crane Cost	\$112,500.00 Received from Allegheny Crane Rentals
Cost	\$46,000.00

516E13900 2" PREFORMED EXPANSION JOINT FILLER - SF

Rear Abut Height	7.26 ft	Width	2.5 ft
Fwd Abut Height	7.53 ft		
Total	21 sf		

516E14020 SEMI-INTEGRAL ABUTMENT EXPANSION JOINT SEAL - FT

RA Joint Length	35 ft	FA Joint Length	35
3'-0" wide neoprene sheeting at verticla joint	10.26 ft	prene sheeting at verticla joint	10.62
Total Length	90.88 ft		

516E41100 1/8" PREFORMED BEARING PAD, TYPE CDP - EA

Number of beams	8 ea
# of substructure units	2 ea
Brgs per Sub Unit	2 ea
Total	32 ea



Subject:	Bridge St Final Tracing Quantities		
Date:	10/20/2025	Job No. :	20230339
Computed:	AI	Checked:	AJH
Sheet:	7 of		8

516E44101 ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (9"x14"x2.001" WITH 9.5"x14.5"x1.5" LOAD PLATE)

Total 32 ea

517E70001 RAILING (TWIN STEEL TUBE), AS PER PLAN - FT

West Rail Length 88.12 ft

East Rail Length 88.92 ft

Total 178 ft

517E70001 RAILING (TWIN STEEL TUBE), AS PER PLAN (WINGWALL MOUNTED) - FT

SW Rail Length 25.92 ft

Total 26 ft

518E21200 POROUS BACKFILL WITH GEOTEXTILE FABRIC - CY

Rear Abut Area 484.29 sf

Fwd Abut Area 400.50 sf

Thickness 2 ft

Total 66 cy

518E40000 6" PERFORATED CORRUGATED PLASTIC PIPE - FT

Rear Abut Length 64.42 ft

Fwd Abut Length 43.03 ft

Total 108 ft

518E40010 6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS - FT

Rear Abut Length 23.83 ft

Fwd Abut Length 36 ft

Total 60 ft

526E25011 REINFORCED CONCRETE APPROACH SLABS, WITH QC/QA (T= 15"), AS PER PLAN - SY

R.A. Area (CAD) = 800 sf

Total 89 sy

526E30001 REINFORCED CONCRETE APPROACH SLABS, WITH QA/QC (T= 17"), AS PER PLAN - SY

F.A. Area (CAD) = 960 sf

Total 107 sy



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Date:	10/20/2025	Job No. :	20230339
Computed:	AI	Checked:	AJH
Sheet:	8 of	8	

526E90010 TYPE A INSTALLATION - FT

Rear Appr Width =	32 ft
Fwd Appr Width =	32 ft
Total	64 ft

530E14000 SPECIAL - STRUCTURAL SURVEY AND MONITORING OF VIBRATION - LUMP

Total 1

\$ 25,000.00 LS Cost

601E32200 ROCK CHANNEL PROTECTION, TYPE C WITH FILTER - CU Y

	RA	FA	
Area (CAD)	2346.22	1621.79	sf
Depth	1.50	1.50	ft
Vol	3519.33	2432.68	cf
Total		220	cy

625E33000 STRUCTURE GROUNDING SYSTEM - EA

Total 1 ea