

STRUCTURE ESTIMATED QUANTITIES

**Bridge No. BEL-70-19.188
Over Aults Run**

**BEL-70-19.19
PID No. 123722**

Belmont County, Ohio

Prepared For:

**The Ohio Department of Transportation
District 11**



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May 8, 2026



Client: ODOT
Project: BEL-70-19.188
Subject: Culvert and Headwall
Estimated Quantities

Job No.:	2024045	
Sheet No.:	1	Of 2
Made By:	JKM	Date: 5/4/2026
Chk'd By:	TJW	Date: 5/4/2026

ITEM 202 - HEADWALL REMOVED

Inlet Culvert Length Removed = 1 each
Outlet Culvert Length Removed = 1 each
Total = 2 each

ITEM 203 - EXCAVATION

No. of headwalls = 2 each
Footing excavation plan area = 533.00 sf *including 1'-0" offset*
Assumed undercut contingency = 1.00 ft depth
Total = 40 cy

ITEM 204 - GEOTEXTILE FABRIC

No. of headwalls = 2.00 each
Footing excavation plan area = 533.00 sf *including 1'-0" offset*
Total = 119 sy

ITEM 304 - AGGREGATE BASE

No. of headwalls = 2.00 each
Footing excavation plan area = 533.00 sf *including 1'-0" offset*
Assumed undercut contingency = 1.00 ft depth
Total = 40 cy

ITEM 503 - COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN

Total = 1 Lump Sum

ITEM 503 - UNCLASSIFIED EXCAVATION, INCLUDING ROCK

Avg. approx. ex. ground elevation (Inlet) = 1063.00
Bottom of footing elevation (Inlet) = 1046.87
Bottom of cutoff wall elevation (Inlet) = 1044.37
Avg. approx. ex. ground elevation (Outlet) = 1046.00
Bottom of footing elevation (Outlet) = 1034.58
Bottom of cutoff wall elevation (Outlet) = 1032.08

Footing excavation plan area = 533.00 sf *Includes 1'-0" offset.*
Cutoff wall Plan area = 67.01 sf

Excavated soil volume (Inlet) = 8,765 cf
Excavated soil volume (Outlet) = 6,254 cf
Total = 557 cy

ITEM 509 - EPOXY COATED STEEL REINFORCEMENT

Steel reinforcing weight = 9,124 lbs *From reinforcing schedule*
Total = 9,124 lbs



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ITEM 511 - CLASS QC1 CONCRETE, RETAINING/WINGWALL NOT INCLUDING FOOTING

No. of wingwalls = 2 each
 Wingwall face area = 271.37 sf
 No. of wingwalls = 2 each
 Wingwall face area = 146.08 sf
 Wingwall thickness = 1.25 ft
 Wingwall corner plan area = 0.65 sf
 Wingwall corner height = 11.62 ft
 No. of headwalls = 2 each
 Headwall face area = 64.31 sf *subtracting area of pipe*
 Headwall thickness = 1.25 ft

 Wingwall volume = 1,074 cf
 Headwall volume = 161 cf

Total = 46 cy

ITEM 511 - CLASS QC1 CONCRETE, FOOTING

No. of footings = 2 each
 Footing plan area = 410.40 sf
 Footing thickness = 1.50 ft
 Cutoff wall plan area = 67.01 sf
 Cutoff wall thickness = 2.50 ft

Total = 59 cy

ITEM 512 - SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)

No. of headwalls = 2 each
 No. of wingwalls = 2 each
 Headwall face area = 64.31 sf
 Wingwall face area = 128.92 sf
 Wingwall face area = 89.59 sf
 Wingwall/foreslope wall back + top width = 1.92 ft
 Wingwall + foreslope wall length + ends = 102.19 ft

 Face area = 566 sf
 Back + top area = 392 sf

Total = 107 sy

ITEM 518 - POROUS BACKFILL WITH GEOTEXTILE FABRIC

No. of wingwalls = 2 each
 Wingwall face area = 232.48 sf
 No. of wingwalls = 2.00 each
 Wingwall face area = 118.14 sf
 Thickness = 1.50 ft
 Wingwall corner plan area = 0.65 sf
 Wingwall corner height = 9.97 ft

Total = 40 cy

ITEM 611 - CONDUIT, MISC.: CONDUIT, WITH FIELD PAVING OF PIPE, 108" TUNNEL LINER PLATE STRUCTURE

Total = 669 ft *length of pipe*



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ITEM 837 - BACKFILL FOR LINER PIPE

Total = 669 ft *length of pipe*

ITEM 601 - ROCK CHANNEL PROTECTION, TYPE A WITH AGGREGATE FILTER

Outlet Length = 25 ft
Width = 21.00 ft
Thickness = 3.00 ft

Total = 59 cy

ITEM 601 - ROCK CHANNEL PROTECTION, TYPE B WITH FILTER

Inlet Length = 10 ft
Width = 34.00 ft
Thickness = 2.50 ft

Total = 32 cy