

STRUCTURE ESTIMATED QUANTITIES

CAST-IN-PLACE WALL 4W13

SOUTH SIDE OF I-70 EB FROM FRA-70-1405C TO FRA-33-1747C

**FRA-70/71-12.68/14.86
PID No. 105523**

Franklin County, Ohio

Prepared For:

**The Ohio Department of Transportation
District 6**



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May 31, 2019

Project: WALL 4W13
Subject: Estimated Quantities - Paper Tracings
Date: 5/30/19

Design: RFV
Updated: MOJ
Check: DGN

ITEM 503 - COFFERDAMS AND EXCAVATION BRACING

Lump sum

ITEM 503 - UNCLASSIFIED EXCAVATION

length = 542.68 ft
width = 17.50 ft
depth (avg) = 14.083 ft

Total = 4,954 cy

ITEM 509 - EPOXY COATED REINFORCING STEEL

(Alternate 1)

Wall 219,172 lbs

Total = 219,172 lbs

ITEM 511 - CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK (PARAPET), AS PER PLAN

(Alternate 1)

area = 2.95 sf
length = 540.68 ft

Total = 60 cy

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

(Alternate 1)

Section 1 length = 90.72 ft
height = 24.96 ft
volume = 5749.79 cf

Section 2 length = 90.00 ft
height = 22.72 ft
volume = 5001.42 cf

Section 3 length = 90.00 ft
height = 21.12 ft
volume = 4523.90 cf

Section 4 length = 90.00 ft
height = 22.61 ft
volume = 4967.87 cf

Section 5 length = 90.00 ft
height = 23.32 ft

volume = 5185.98 cf

Section 6 length = 11.33 ft
height = 25.17 ft
volume = 727.04 cf

Section 7 length = 78.63 ft
height = 26.99 ft
volume = 5569.60 cf

Total = **1,176 cy**

ITEM 511 - CLASS QC1 CONCRETE WITH QC/QA, FOOTING, AS PER PLAN

(Alternate 1)

height = 3.00 ft
width = 15.50 ft
length = 540.68 ft

Total = **932 cy**

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

perimeter = 7.61 ft
length = 540.68 ft

Total = **458 sy**

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

area = 11,924.00 sf

Total = **1,325 sy**

ITEM 512 - TYPE 2 WATERPROOFING

(Alternate 1)

width = 3.00 ft
exp. jt. lengths = 124.92 ft
cont. jt. lengths = 317.09 ft

Total = **148 sy**

ITEM 512 - TYPE 2 WATERPROOFING

(Alternate 2)

width = 3.00 ft
wall length = 540.68 ft
panel length = 6.00 ft
avg. wall height = 23.58 ft
exp. jt. lengths = 124.92 ft

Total = **674 sy**

ITEM 516 - 1" PREFORMED EXPANSION JOINT FILLER

lengths = 124.92 ft
width = 5.08 ft

Total = 635 sf

ITEM 518 - POROUS BACKFILL WITH GEOTEXTILE FABRIC

thickness = 2.00 ft
Section 1 2134.90 sf
Section 2 1915.71 sf
Section 3 1771.69 sf
Section 4 1905.78 sf
Section 5 1969.89 sf
Section 6 269.15 sf
Section 7 2010.83 sf

Total = 888 cy

ITEM 518 - 6" PERFORATED CORRUGATED PLASTIC PIPE

length = 540.68 ft

Total = 541 ft

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

length = 10.00 ft

Total = 10 ft

ITEM 607 - FENCE, MISC.: WALL MOUNTED TYPE A (W/ VANDAL MESH)

length = 536.00 ft

Total = 536 ft

SPECIAL 530E00200 - STRUCTURE, MISC.: PRECAST WALL PANELS

(Alternate 2)

Lump sum