## MED-18-12.99

## **RETAINING WALL NO. 2**

**Medina County** 

PID No. 92953

## WALL ESTIMATED QUANTITIES Final Tracing Submittal

for Ohio Department of Transportation – District 3

Prepared by:



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June 28, 2020

	ESTIMATED QUANTITIES
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ITEM 503 - UNCLASSIFIED EXCAVATION

CADO AREA BELOW EXISTING GROUND @ FACE OF WALL = 307 5'

APPROXIMATE THICKNESS OF EXCLAMATION FOR WALL CONSTRUCTION = 4.0'

: TOTAL FOR ITEM = 1× (307"+ 419") × 40" = 27 = 68.59 CY = SAY 69 CY

ITEM 507 - STEEL PILES, MISC: HP 14×73

• ENBEDMENT DEPTH + HEIGHT ABOVE SHAFTS EMBED

TOTAL = 12.0'x14 + (8.2'+9.6'+10.9'+11.8'+3x13.3'+3x12.5'+11.7'+9.7'+2x7.8') = 322.9' ED SAY 325 FT.

ITEM 509 - EPOXY COATED REINFORCING STEEL

FROM REINFORCING STEEL LIST IN PLANS = 6378 LB

ITEM 511 - CLASS QC1 CONCRETE, SUBSTRUCTURE

· CONCRETE COPING TOTAL = 2.5833' × 1.50' × 78.147' = 27 = 11.22 CY = SAY 12 CY

ITEM 511 - CLASS QCI CONCRETE, M'SC: CAST-IN-PLACE CONCRETE FACING, AS PERPLAN

CADD AREA OF FACING = 736.3" : TOTAL FOR ITEM = 736.3" × (10/12) + 27 = 22.7 CY =D SAY 23 CY

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

CAOD AREA BELOW COPING AND ABOVE FINISHED GROUND = 518.25" COPING PERIMETER = 1.5+2.5833'+1.5'+0.17'= 5.75'

: TOTAL FOR ITEM = [518.25" + 5.75' × 78.107 ] = 107.55 54 => SAY 110 SY

ESTIMATED QUANTITIES



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ITEM 512 - TYPE 2 WATER PROOFING CADD AREA OF 3.0' WIDE STRIP @ STEPPED EXPANSION JOINT = 32.5 " " TOTAL FOR ITEM = 32.5"/9 = 3.61 SY =D SAY 4 SY ITEM 518 - STRUCTURE DRAINAGE, MISC: MIRADRAIN 5000 PRAINAGE SYSTEM OR EQUAL · CADO AREA BETWEEN PILES @ EXPANSION JUINT = 95.24" · CADO AREA WEST OF JOINT AREA = 325.8" · CAOD AREA EAST OF JOINT AREA = 340.15 · DEOVET FOR PILES + 3" EACH SIDE OF FLANGE = 20" TOTAL WIDTH DEDUCTION : TOTAL = 95.24 " + 325.8" + 360.1" - (20"/12) (8.2'+9.6'+10.9'+11.8'+13.3'+12.5'+12.5'+11.7'+9.7'+7.8'+7.8') = 588.14 " => SAY 590 SF ITEM 524 - DRIVED SUMPTS, 30" DRAMETER, AS PER PLAN TOTAL FOR ITEM = 14×12.0' = 168 FT. ITEM 610 - RETAINING WALL, MISC : 3" TIMBER LAGGING CADO AREA = 850.3 "/9 = 94,47 SY => SAY 95 SY **ITEM 530 - SPECIAL - FORM LINER** AREA OF CAST-IN-PLACE WALL FACING = 736 SF