

DISTRICT 10 - BRIDGE DEPARTMENT

MUSKINGUM DRIVE, BOX 658, MARIETTA OHIO 45750

COUNTY: HOC ROUTE: 180 SECTION: 5.36

SHEET 1 OF 2

CLASS QCI CONCRETE, RETAINING/WINGWALL

$$\frac{1}{2}(9.83' + 14.83')(17')(1.5')/27 = 11.65 \text{ CY}$$

$$\frac{1}{2}(10.93' + 14.83')(17')(1.5')/27 = 11.88 \text{ CY}$$

$$(0.93 \text{ SF})(14.93')/27 \times 2 = 1.02 \text{ CY}$$

$$24.55 \times 2 = 49.10 \text{ CU YD}$$

CLASS QCI CONCRETE, FOOTING

$$2 \times \frac{1}{2}(15.76' + 19.90')(10')(1.5')/27 = 19.81 \text{ CY}$$

$$\frac{1}{2}(19.68' + 27.97')(10')(1.5')/27 = 13.24 \text{ CY}$$

$$2 \times \frac{1}{2}(15.76' + 16.38')(1')(1.5')/27 = 1.79 \text{ CY}$$

$$\frac{1}{2}(19.68' + 20.92')(1')(1.5')/27 = 1.13 \text{ CY}$$

$$(22')(3')(1.17')/27 = 2.86 \text{ CY}$$

$$(0.44 \text{ SF})(22')/27 = 0.36 \text{ CY}$$

$$39.19 \times 2 = 78.38 \text{ CU YD}$$

CLASS QCI CONCRETE, HEADWALL

$$(22')(1.5')(0.5')/27 = 0.61 \times 2 = 1.22 \text{ CU YD}$$

TYPE 2 WATERPROOFING

$$(17.33')(51.5')/9 = 82.00 \times 2 = 164 \text{ SQ YD}$$

TYPE 3 WATERPROOFING

$$(24')(49.5')/9 = 132 \text{ SQ YD}$$

1" PEJF

$$(17.83')(1.5') \times 4 = 89 \text{ SQ FT}$$

CLASS QCI CONCRETE, MISC. MUD SLAB

$$(38.5')(24')(0.5')/27 = 18 \text{ CU YD}$$

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SHEET 2 OF 2

SEALING OF CONCRETE SURFACES

$$\frac{1}{2}(14.83' + 1.93')(17')/9 = 15.07 \text{ SY}$$

$$(1.83')(1.5')/9 = 0.31 \text{ SY}$$

$$\frac{1}{2}(1.83' + 0.5')(17')/9 = 2.20 \text{ SY}$$

$$\frac{1}{2}(17.13' + 2.33')(17')/9 = 15.54 \text{ SY}$$

$$(2.33')(1.5')/9 = 0.39 \text{ SY}$$

$$\frac{1}{2}(2.33' + 0.5')(17')/9 = 2.67 \text{ SY}$$

$$(17.72')(1.5')/9 = 2.95 \text{ SY}$$

$$(22')(1.5')/9 = 3.67 \text{ SY}$$

$$(17.58')(1.5')/9 = 2.93 \text{ SY}$$

$$(22')(0.5')/9 = 1.22 \text{ SY}$$

$$(0.93 \text{ SF})/9 \times 2 = 0.21 \text{ SY}$$

$$2 \times (17.33')(1')/9 = 3.18 \text{ SY}$$

$$2 \times (20')(1.16')/9 = 5.16 \text{ SY}$$

$$4 \times \frac{1}{2}(1')(1') = 2.00 \text{ SY}$$

FACE OF BOX

$$[(2 \times 18') + (2 \times 10') + (4 \times 1.41')] \times 2 \text{ FT} / 9 = 13.70 \text{ SY} \rightarrow \text{INSIDE BOX}$$

$$71.20 \text{ SY} \times 2 = 142.40 \text{ SQ YD}$$

LOW STRENGTH MORTAR BACKFILL

$$(2')(14.33')(30.12')/27 = 31.97 \text{ CY}$$

$$\frac{1}{2}(17.33')(21.50')(30.12')/27 = 171.85 \text{ CY}$$

$$203.82 \times 2 = 407.64 \text{ CU YD}$$

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