

DISTRICT 10 - BRIDGE DEPARTMENT

MUSKINGUM DRIVE, BOX 658, MARIETTA OHIO 45750

COUNTY: WAS ROUTE: 77 SECTION: 9.58

SHEET 1 OF 3

CLASS DC1 CONCRETE, RETAINING WALL/WINGWALL

$$(18.65')(12.42')(1.5')/27 = 12.87 \text{ CY}$$

$$(18')(18.08')(1.5')/27 = 18.08 \text{ CY}$$

$$(16')(23.42')(1.5')/27 = 20.82 \text{ CY}$$

$$(27.60')(29.08')(1.5')/27 = 47.59 \text{ CY}$$

$$(3.52')(29.08')(1.5')/27 = 5.69 \text{ CY}$$

$$(18')(24.48')(1.5')/27 = 24.42 \text{ CY}$$

$$(18')(18.42')(1.5')/27 = 18.42 \text{ CY}$$

$$(18.65')(12.42')(1.5')/27 = 12.87 \text{ CY}$$

157.76 CYD

1" PREFORMED EXPANSION JOINT FILLER

$$(1.5')(29.08') = 43.62 \text{ SQ FT}$$

SEALING OF CONCRETE SURFACES

$$\frac{1}{2} (2.00' + 25.19')(69.57')/9 = 105.09 \text{ SY}$$

$$\frac{1}{2} (25.19' + 22.11')(69.93')/9 = 104.93 \text{ SY}$$

$$(1.5')(2')/9 = 0.33 \text{ SY}$$

$$(1.5')(138.5')/9 = 23.08 \text{ SY}$$

$$(1.5')(2.21')/9 = 0.37 \text{ SY}$$

$$(6.5')(138.5')/9 = 7.69 \text{ SY}$$

241.49 SQ YD

TIMBER LAGGING

$$(5.17')(10.92') \times 6 = 338.74 \text{ SF}$$

$$(5.17')(16.58') \times 3 = 257.16 \text{ SF}$$

$$(9.17')(21.92') = 201.01 \text{ SF}$$

$$(5.17')(21.92') = 113.33 \text{ SF}$$

$$(5.17')(27.58') \times 5 = 712.94 \text{ SF}$$

$$(5.17')(22.92') \times 3 = 355.49 \text{ SF}$$

$$(5.17')(16.92') \times 3 = 262.43 \text{ SF}$$

2241.10 SQ FT

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SHEET 2 OF 3

GEOCOMPOSITE DRAIN STRIP

$$\frac{1}{2}(5.12' + 6.71')(4.79') = 28.33 \text{ SF}$$

$$\frac{1}{2}(7.12' + 8.71')(4.79') = 37.91 \text{ SF}$$

$$\frac{1}{2}(9.12' + 10.71')(4.79') = 47.49 \text{ SF}$$

$$\frac{1}{2}(11.12' + 12.71')(4.79') = 57.07 \text{ SF}$$

$$\frac{1}{2}(13.12' + 14.71')(4.79') = 66.65 \text{ SF}$$

$$\frac{1}{2}(15.12' + 16.71')(4.79') = 76.23 \text{ SF}$$

$$\frac{1}{2}(17.12' + 20.05')(8.79') = 163.36 \text{ SF}$$

$$\frac{1}{2}(20.45' + 22.05')(4.79') = 101.79 \text{ SF}$$

$$\frac{1}{2}(22.45' + 24.05')(4.79') = 111.37 \text{ SF}$$

$$\frac{1}{2}(24.45' + 26.05')(4.79') = 120.95 \text{ SF}$$

$$\frac{1}{2}(26.45' + 28.05')(4.79') = 130.53 \text{ SF}$$

$$\frac{1}{2}(26.93' + 25.33')(4.79') = 125.16 \text{ SF}$$

$$\frac{1}{2}(24.93' + 23.33')(4.79') = 115.58 \text{ SF}$$

$$\frac{1}{2}(22.93' + 21.33')(4.79') = 106.00 \text{ SF}$$

$$\frac{1}{2}(20.93' + 19.33')(4.79') = 96.42 \text{ SF}$$

$$\frac{1}{2}(18.93' + 17.33')(4.79') = 86.84 \text{ SF}$$

$$\frac{1}{2}(16.93' + 15.33')(4.79') = 77.26 \text{ SF}$$

$$\frac{1}{2}(14.93' + 13.33')(4.79') = 67.68 \text{ SF}$$

$$\frac{1}{2}(12.93' + 11.33')(4.79') = 58.10 \text{ SF}$$

$$\frac{1}{2}(10.93' + 9.33')(4.79') = 48.52 \text{ SF}$$

$$\frac{1}{2}(8.93' + 7.33')(4.79') = 38.94 \text{ SF}$$

$$\frac{1}{2}(6.93' + 5.33')(4.79') = 29.36 \text{ SF}$$

$$\underline{1791.54 / 9 = 199.06 \text{ SQ YD}}$$

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SHEET 3 OF 3

POROUS BACKFILL WITH GEOTEXTILE FABRIC

$$(2.5')(2.0')(137.2') / 27 = 25.41 \text{ CU YD}$$

LOW STRENGTH MORTAR BACKFILL

AREA OF 30" SHAFT = 4.91 SQ FT

$$(4.91')(10.92') \times 6 = 321.70 \text{ CF}$$

$$(4.91')(16.58') \times 3 = 244.22 \text{ CF}$$

$$(4.91')(21.92') \times 2 = 215.25 \text{ CF}$$

$$(4.91')(27.58') \times 6 = 812.51 \text{ CF}$$

$$(4.91')(22.92') \times 3 = 337.61 \text{ CF}$$

$$(4.91')(16.92') \times 3 = 249.23 \text{ CF}$$

$$2180.52 / 27 = 80.76 \text{ CU YD}$$

NYLON REINFORCED NEOPRENE SHEETING

$$(3')(18.08') = 54.24 \text{ SF}$$

$$(3')(29.08') = 87.24 \text{ SF}$$

$$(3')(29.08') = 87.24 \text{ SF}$$

$$(3')(18.42') = 55.26 \text{ SF}$$

$$283.98 \text{ SQ FT}$$

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