

DISTRICT 10 - BRIDGE DEPARTMENT

MUSKINGUM DRIVE, BOX 658, MARIETTA OHIO 45750

COUNTY: MRG ROUTE: 376 SECTION: 14.59

SHEET 1 OF 3

CLASS GC1 CONCRETE RETAINING/WINGWALL

$$\text{INLET: } \frac{1}{2} (5.58' + 7.93') (10') (1') / 27 = 2.97 \text{ CY}$$

$$(0.53 \text{ SF}) (7.33') / 27 = 0.14 \text{ CY}$$

$$\frac{1}{2} (4.08' + 7.33') (5.92') (1') / 27 = 1.25 \text{ CY}$$

$$\text{OUTLET: } \frac{1}{2} (4.08' + 7.33') (9.5') (1') / 27 = 2.01 \text{ CY}$$

$$(0.53 \text{ SF}) (7.33') / 27 = 0.14 \text{ CY}$$

$$\frac{1}{2} (6.33' + 7.33') (9.42') (1') / 27 = 2.38 \text{ CY}$$

$$\text{TOTAL} = 8.79 \text{ CY}$$

CLASS GC1 CONCRETE FOOTING

$$\text{INLET: } \frac{1}{2} (10.89' + 13.82') (5.5') (1.5') / 27 = 3.78 \text{ CY}$$

$$\frac{1}{2} (14.31' + 17.23') (5.5') (1.5') / 27 = 4.82 \text{ CY}$$

$$\frac{1}{2} (10.89' + 11.69') (1.5') (2.5') / 27 = 1.57 \text{ CY}$$

$$\frac{1}{2} (14.31' + 15.11') (1.5') (2.5') / 27 = 2.04 \text{ CY}$$

$$(9.33') (2.08') (0.67') / 27 = 0.48 \text{ CY}$$

$$\text{OUTLET: } \frac{1}{2} (8.39' + 11.32') (5.5') (1.5') / 27 = 3.01 \text{ CY}$$

$$\frac{1}{2} (17.81' + 20.73') (5.5') (1.5') / 27 = 5.90 \text{ CY}$$

$$\frac{1}{2} (8.39' + 9.19') (1.5') (2.5') / 27 = 1.22 \text{ CY}$$

$$\frac{1}{2} (17.81' + 18.61') (1.5') (2.5') / 27 = 2.53 \text{ CY}$$

$$(9.33') (2.08') (0.67') / 27 = 0.48 \text{ CY}$$

$$\text{TOTAL} = 25.83 \text{ CY}$$

CLASS GC1 CONCRETE HEADWALL

$$\text{INLET: } (9.33') (1') (1') / 27 = 0.35 \text{ CY}$$

$$\text{OUTLET: } (9.33') (1') (1') / 27 = 0.35 \text{ CY}$$

$$\text{TOTAL} = 0.70 \text{ CY}$$

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SHEET 2 OF 3

ITEM 512 - SEALING OF CONCRETE SURFACES

$$\text{INLET: } \frac{1}{2}(0.98' + 6.67')(12') / 9 = 5.10 \text{ SY}$$

$$(0.98')(1') / 9 = 0.11 \text{ SY}$$

$$(1')(12.13') / 9 = 1.35 \text{ SY}$$

$$(0.5')(13.06') / 9 = 0.73 \text{ SY}$$

$$(0.53 \text{ SF}) / 9 = 0.06 \text{ SY}$$

$$\frac{1}{2}(0.5' + 6.67')(6') / 9 = 2.39 \text{ SY}$$

$$(0.5')(1') / 9 = 0.06 \text{ SY}$$

$$(1')(6.75') / 9 = 0.75 \text{ SY}$$

$$(6')(0.5') / 9 = 0.33 \text{ SY}$$

$$(1' + 1' + 0.5')(9.33') / 9 = 2.59 \text{ SY}$$

$$(5.66' + 5.66' + 8')(0.67') / 9 = 1.44 \text{ SY}$$

$$4 \left[\frac{1}{2}(0.67')(0.67') \right] / 9 = 0.10 \text{ SY}$$

$$(24.44')(2') / 9 = 5.43 \text{ SY}$$

$$\text{OUTLET: } \frac{1}{2}(0.89' + 6.67')(9.5') / 9 = 3.99 \text{ SY}$$

$$(0.89')(1') / 9 = 0.10 \text{ SY}$$

$$(1')(10.04') / 9 = 1.12 \text{ SY}$$

$$(0.5')(10.56') / 9 = 0.59 \text{ SY}$$

$$(0.53 \text{ SF}) / 9 = 0.06 \text{ SY}$$

$$\frac{1}{2}(0.92' + 6.67')(9.5') / 9 = 4.01 \text{ SY}$$

$$(0.92')(1') / 9 = 0.10 \text{ SY}$$

$$(1')(9.47') / 9 = 1.05 \text{ SY}$$

$$(0.5')(9.5') / 9 = 0.53 \text{ SY}$$

$$(1' + 1' + 0.5')(9.33') / 9 = 2.59 \text{ SY}$$

$$(5.66' + 5.66' + 8')(0.67') / 9 = 1.44 \text{ SY}$$

$$4 \left[\frac{1}{2}(0.67')(0.67') \right] / 9 = 0.10 \text{ SY}$$

$$(24.44')(2') / 9 = 5.43 \text{ SY}$$

$$\text{TOTAL} = 41.55 \text{ SY}$$

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SHEET 3 OF 3

ITEM 512 - TYPE 2 WATERPROOFING

$$2 [(50')(6.33')] / 9 = 73.15 \text{ SF}$$

$$(50')(11.33') / 9 = 62.94 \text{ SF}$$

$$\text{TOTAL} = 136.09 \text{ SF}$$

ITEM 512 - 1" PEJE

$$4 [(6.33')(1')] = 25.32 \text{ SF}$$

ITEM 518 - POROUS BACKFILL

$$\text{INLET: } \frac{1}{2} (4.08' + 5.83')(1.5')(12.53') / 27 = 3.45 \text{ CY}$$

$$(5.83')(1.5')(1.01') / 27 = 0.33 \text{ CY}$$

$$\frac{1}{2} (2.58' + 5.83')(1.5')(6') / 27 = 1.40 \text{ CY}$$

$$\text{OUTLET: } \frac{1}{2} (2.58' + 5.83')(1.5')(10.03') / 27 = 2.34 \text{ CY}$$

$$(5.83')(1.5')(1.01') / 27 = 0.33 \text{ CY}$$

$$\frac{1}{2} (4.83' + 5.83')(1.5')(9.5') / 27 = 2.81 \text{ CY}$$

$$\text{TOTAL} = 10.66 \text{ CY}$$

ITEM 613 - LOW STRENGTH MORTAR BACKFILL

$$2 \left[\frac{1}{2} (6.33')(6.33')(26') \right] / 27 = 38.58 \text{ CY}$$

$$2 \left[(2')(6.33')(26') \right] / 27 = 24.38 \text{ CY}$$

$$\text{TOTAL} = 62.96 \text{ CY}$$

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