

# DISTRICT 10 - BRIDGE DEPARTMENT

MUSKINGUM DRIVE, BOX 658, MARIETTA OHIO 45750

COUNTY: GAL      ROUTE: 218      SECTION: 9.28

SHEET 1 OF 3

WEARING COURSE REMOVED

$$(9.30)(23') / 9 = 23.77 \text{ SQ YD}$$

CLASS QCI CONCRETE, RETAINING/WINGWALL

$$\frac{1}{2}(3.83' + 5.83')(7.25')(1') / 27 = 1.30 \text{ CY}$$

$$(0.41 \text{ SF})(5.83') / 27 = 0.09 \text{ CY}$$

$$\frac{1}{2}(4.83' + 5.83')(7.25')(1') / 27 = 1.73 \text{ CY}$$

$$(0.41 \text{ SF})(5.83') / 27 = 0.09 \text{ CY}$$

$$\frac{1}{2}(4.83' + 6.33')(7.25')(1') / 27 = 1.50 \text{ CY}$$

$$(0.41 \text{ SF})(6.33') / 27 = 0.10 \text{ CY}$$

$$\frac{1}{2}(4.83' + 6.33')(7.25')(1') / 27 = 1.50 \text{ CY}$$

$$(0.41 \text{ SF})(6.33') / 27 = 0.10 \text{ CY}$$

$$\underline{6.11 \text{ CY}}$$

CLASS QCI CONCRETE, FOOTING

$$\frac{1}{2}(6.42' + 8.91')(6')(2') / 27 = 3.41 \text{ CY}$$

$$\frac{1}{2}(7.84' + 12.81')(6')(2') / 27 = 4.59 \text{ CY}$$

$$\frac{1}{2}(6.42' + 8.91')(6')(2') / 27 = 3.41 \text{ CY}$$

$$\frac{1}{2}(6.42' + 7.04')(1.5')(1') / 27 = 0.37 \text{ CY}$$

$$\frac{1}{2}(7.84' + 9.09')(1.5')(1') / 27 = 0.47 \text{ CY}$$

$$\frac{1}{2}(6.42' + 7.04')(1.5')(1') / 27 = 0.37 \text{ CY}$$

$$(9.33')(2')(0.67') / 27 = 0.46 \text{ CY}$$

$$\underline{13.08 \text{ CY}} \times 2 = 26.16 \text{ CY}$$

CLASS QCI CONCRETE, HEADWALL

$$(9.33')(1')(0.5') / 27 = 0.17 \text{ CY}$$

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

$$\underline{0.52 \text{ CY}}$$

CLASS QCI CONCRETE, MISC.: MUD SLAB

$$(11.33')(32')(0.5') / 27 = 6.71 \text{ CY}$$

DATE:

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SHEET 2 OF 3

| <u>SEALING OF CONCRETE SURFACES</u>  |   |
|--|---|
| $\frac{1}{2}(5.17 + 0.5')(7.25') / 9 = 2.29 \text{ SY}$<br>$(0.5')(1') / 9 = 0.06 \text{ SY}$<br>$(7.52')(1') / 9 = 0.84 \text{ SY}$<br>$(7.25')(0.5') / 9 = 0.40 \text{ SY}$<br>$\frac{1}{2}(5.17 + 1')(7.25') / 9 = 2.49 \text{ SY}$<br>$(1')(1') / 9 = 0.11 \text{ SY}$<br>$(7.32')(1') / 9 = 0.81 \text{ SY}$<br>$(7.25')(0.5') / 9 = 0.40 \text{ SY}$<br>$(9.33')(1') / 9 = 1.04 \text{ SY}$<br>$(9.33')(0.5') / 9 = 0.52 \text{ SY}$<br>$(12.44 \text{ SF}) / 9 = 1.38 \text{ SY}$<br>$(22.44')(2') / 9 = 4.99 \text{ SY}$<br><hr style="width: 50%; margin-left: auto; margin-right: 0;"/> <p style="text-align: right;">15.33 SY</p> | $\frac{1}{2}(5.67 + 1')(7.25') / 27 = 2.69 \text{ SY}$<br>$(1')(1') / 9 = 0.11 \text{ SY}$<br>$(7.40')(1') / 9 = 0.82 \text{ SY}$<br>$(7.25')(0.5') / 9 = 0.40 \text{ SY}$<br>$\frac{1}{2}(5.67 + 1')(7.25') / 9 = 2.69 \text{ SY}$<br>$(1')(1') / 9 = 0.11 \text{ SY}$<br>$(7.40')(1') / 9 = 0.82 \text{ SY}$<br>$(7.25')(0.5') / 9 = 0.40 \text{ SY}$<br>$(9.33')(1') / 9 = 1.04 \text{ SY}$<br>$(9.33')(1') / 9 = 1.04 \text{ SY}$<br>$(12.44 \text{ SF}) / 9 = 1.38 \text{ SY}$<br>$(22.44')(2') / 9 = 4.99 \text{ SY}$<br><hr style="width: 50%; margin-left: auto; margin-right: 0;"/> <p style="text-align: right;">16.49 SY</p> |
| $15.33 + 16.49 = 31.82 \text{ SY}$   |   |
| <u>TYPE 2 WATERPROOFING</u>  |   |
| $(5.83')(40') / 9 = 19.24 \text{ SY} \times 2 = 38.49 \text{ SY}$  |   |
| <u>TYPE 3 WATERPROOFING</u>  |   |
| $(11.33')(38') / 9 = 47.84 \text{ SY}$   |   |
| <u>1" PE/F</u>   |   |
| $(1')(5.83') = 5.83 \text{ SF} \times 2 = 11.66 \text{ SF}$  |   |
| $(1')(6.33') = 6.33 \text{ SF} \times 2 = 12.66 \text{ SF}$  |   |
| <hr style="width: 50%; margin-left: auto; margin-right: 0;"/><br>24.32 SF  |   |

DATE: \_\_\_\_\_  
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SHEET 3 OF 3

## POROUS BACKFILL WITH GEOTEXTILE FABRIC

$$\frac{1}{2}(1.5' + 3.5')(7.25')(1.5') / 27 = 1.01 \text{ CY}$$

$$\frac{1}{2}(2.5' + 3.5')(7.25')(1.5') / 27 = 1.21 \text{ CY}$$

$$\frac{1}{2}(2.5' + 4')(7.25')(1.5') / 27 = 1.31 \text{ CY}$$

$$\frac{1}{2}(2.5' + 4')(7.25')(1.5') / 27 = 1.31 \text{ CY}$$

$$\underline{4.84 \text{ CY}}$$

## LOW STRENGTH MORTAR BACKFILL

$$(2')(5.33')(38') / 27 = 15.00 \text{ CY}$$

$$\frac{1}{2}(5.33')(5.33')(38') / 27 = 20.00 \text{ CY}$$

$$35 \text{ CY} \times 2 = 70 \text{ CY}$$

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