

DISTRICT 10 - BRIDGE DEPARTMENT

MUSKINGUM DRIVE, BOX 658, MARIETTA OHIO 45750

COUNTY: WAS ROUTE: 7 SECTION: 52.79

SHEET 1 OF 3

WEARING COURSE REMOVED

$$(199.50')(44')/9 = 975.33 \text{ SY}$$

$$\text{APP SLABS: } 2[(25')(24')/9] = 133.33 \text{ SY}$$

$$\underline{1108.66 \text{ SQ YD}}$$

CLASS R/C CONCRETE, BRIDGE DECK

$$(196.31')(42')(8\frac{1}{2}')/12/27 = 216.38 \text{ CY}$$

$$\text{LEFT OVERHANG: } (196.31')(1.25' \text{ AVG. WIDTH})(11\frac{1}{2}')/12/27 = 8.71 \text{ CY}$$

$$\text{RIGHT OVERHANG: } (196.31')(1.38' \text{ AVG. WIDTH})(11\frac{1}{2}')/12/27 = 9.62 \text{ CY}$$

$$\text{HAUNCH: } (196.31')(1')(2'')/12/27 \times 6 \text{ BEAMS} = 7.27 \text{ CY}$$

$$\underline{241.90 \text{ CU YD}}$$

CLASS R/C CONCRETE, ABUTMENT

$$\text{REAR: } \frac{1}{2}(1.69' + 3.19')(4.5')(1.75')/27 = 0.71 \text{ CY}$$

$$(3.19')(3.35')(1.75')/27 = 0.69 \text{ CY}$$

$$\frac{1}{2}(3.19' + 4.19')(42')(1.75')/27 = 10.05 \text{ CY}$$

$$(4.19')(3.64')(1.75')/27 = 0.99 \text{ CY}$$

$$\frac{1}{2}(4.19' + 2.02')(6.5')(1.75')/27 = 1.31 \text{ CY}$$

$$\text{DEDUCT APP SLAB SEAT: } (1.75')(42')(0.5')/27 = 1.36 \text{ CY}$$

$$\underline{12.39 \text{ CY}}$$

$$\text{FWD: } \frac{1}{2}(2.02' + 4.19')(6.5')(1.75')/27 = 1.31 \text{ CY}$$

$$(4.19')(3.65')(1.75')/27 = 0.99 \text{ CY}$$

$$\frac{1}{2}(4.19' + 3.19')(42')(1.75')/27 = 10.05 \text{ CY}$$

$$(3.19')(3.35')(1.75')/27 = 0.69 \text{ CY}$$

$$\frac{1}{2}(3.19' + 1.69')(4.5')(1.75')/27 = 0.71 \text{ CY}$$

$$\text{DEDUCT APP SLAB SEAT: } (1.75')(42')(0.5')/27 = 1.36 \text{ CY}$$

$$\underline{12.39 \text{ CY}}$$

$$\text{TOTAL ABUTMENT} = 12.39 + 12.39 = 24.78 \text{ CU YD}$$

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SHEET 2 OF 3

SEALING OF CONCRETE SURFACES (JOW-EPOLY)

$$\text{SUPER: } 2[(196.31')(20'' + 6'')/12]/9 = 94.52 \text{ SY}$$

$$\text{REAR ABUT: } (5.20')(1.75')/9 = 1.02 \text{ SY}$$

$$\text{FWD ABUT: } (5.26')(1.75')/9 = 1.02 \text{ SY}$$

$$\frac{1}{2}(5.22' + 6.72')(4.50')/9 = 2.99 \text{ SY}$$

$$\frac{1}{2}(5.26' + 7.43')(6.50')/9 = 4.58 \text{ SY}$$

$$(6.72')(3.63')/9 = 2.71 \text{ SY}$$

$$(7.43')(3.64')/9 = 3.01 \text{ SY}$$

$$\frac{1}{2}(4.78' + 4.44')(4.2')/9 = 20.58 \text{ SY}$$

$$\frac{1}{2}(4.44' + 4.38')(4.2')/9 = 20.58 \text{ SY}$$

$$(7.72')(3.64')/9 = 3.12 \text{ SY}$$

$$(6.43')(3.35')/9 = 2.39 \text{ SY}$$

$$\frac{1}{2}(7.72' + 5.55')(6.5')/9 = 4.79 \text{ SY}$$

$$\frac{1}{2}(6.43' + 4.93')(4.50')/9 = 2.84 \text{ SY}$$

$$(5.55')(1.75')/9 = 1.08 \text{ SY}$$

$$(4.93')(1.75')/9 = 0.96 \text{ SY}$$

$$(2.34')(3.25')/9 = 0.85 \text{ SY}$$

$$(2.99')(3.25')/9 = 1.08 \text{ SY}$$

$$(2.77')(4.238')/9 = 13.99 \text{ SY}$$

$$(2.67')(4.237')/9 = 12.57 \text{ SY}$$

$$(3.28')(3.25')/9 = 1.18 \text{ SY}$$

$$(2.05')(3.25')/9 = 0.74 \text{ SY}$$

$$(2.56')(4.238')/9 = 11.77 \text{ SY}$$

$$(2.50')(4.237')/9 = 11.77 \text{ SY}$$

$$(4.74')(1.75')/9 = 0.92 \text{ SY}$$

$$(6.85')(1.75')/9 = 1.33 \text{ SY}$$

$$(3.35')(1.75')/9 = 0.65 \text{ SY}$$

$$(3.65')(1.75')/9 = 0.71 \text{ SY}$$

$$(7.85')(1')/9 = 0.87 \text{ SY}$$

$$(16.15')(1')/9 = 1.13 \text{ SY}$$

$$(3.65')(1.75')/9 = 0.71 \text{ SY}$$

$$(3.35')(1.75')/9 = 0.65 \text{ SY}$$

$$(6.85')(1.75')/9 = 1.33 \text{ SY}$$

$$(4.74')(1.75')/9 = 0.92 \text{ SY}$$

$$(10.15')(1')/9 = 1.13 \text{ SY}$$

$$(7.84')(1')/9 = 0.87 \text{ SY}$$

$$\underline{69.69 \text{ SY}}$$

$$\underline{67.15 \text{ SY}}$$

$$\text{ABUTMENT TOTAL} = 69.69 + 67.15 = 136.84 \text{ SQ YD}$$

TYPE 2 WATERPROOFING

$$\text{REAR ABUT: } (60')(3')/9 = 20 \text{ SY}$$

$$\text{FWD ABUT: } (60')(3')/9 = 20 \text{ SY}$$

$$\underline{40 \text{ SQ YD}}$$

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SHEET 3 OF 3

POROUS BACKFILL WITH GEOTEXTILE FABRIC

$$\text{REAR ABUT : } \frac{1}{2} (4.89' + 6.39') (4.5') (2') / 27 = 1.88 \text{ CY}$$

$$(6.39') (3.35') (2') / 27 = 1.59 \text{ CY}$$

$$\frac{1}{2} (6.39' + 7.39') (42') (2') / 27 = 21.44 \text{ CY}$$

$$(7.39') (3.65') (2') / 27 = 2.00 \text{ CY}$$

$$\frac{1}{2} (7.39' + 5.22') (6.5') (2') / 27 = 3.04 \text{ CY}$$

$$\underline{29.95 \text{ CY}}$$

$$\text{FWD ABUT : } \frac{1}{2} (5.22' + 7.39') (6.5') (2') / 27 = 3.04 \text{ CY}$$

$$(7.39') (3.65') (2') / 27 = 2.00 \text{ CY}$$

$$\frac{1}{2} (7.39' + 6.39') (42') (2') / 27 = 21.44 \text{ CY}$$

$$(7.39') (3.34') (2') / 27 = 1.83 \text{ CY}$$

$$\frac{1}{2} (7.39' + 4.89') (4.5') (2') / 27 = 2.05 \text{ CY}$$

$$\underline{30.36 \text{ CY}}$$

$$\text{TOTAL} = 29.95 + 30.36 = 51.31 \text{ CU YD}$$

REINFORCED CONCRETE APPROACH SLAB

$$2 [(42') (25')] / 9 = 233.33 \text{ SY}$$

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