DISTRICT 10 - BRIDGE DEPARTMENT

MUSKINGUM DRIVE, BOX 658, MARIETTA OHIO 45750

COUNTY: NOB ROUTE: 83 SECTION: 0.02 SHEET 1 OF 3

WEARING COURSE REMOVED

(30')(22.5')/9 = 75 SY

2[(20')(15')/9] = 66.67 SY → ON APPROACH SLABS

141.67 SQ YD

CLASS QC2 CONCRETE, SUPERSTRUCTURE

(30')(22.5')(17.25"/12)/27 = 35.94 CY

2[(4.25')(20')(2.75"/12)/27] = 1.44 CY

2[(30')(7.5"/12)(2.5"/12)/27] = 0.29 CY

2[(30')(15"/12)(2.5"/12)/27] = 0.58 CY

38.25 CU YD

CLASS QC1 CONCRETE, ABUTMENT

REAR: ½(1.11' + 3.36')(6.75')(2')/27 = 1.12 CY

(3.36')(3.55')(2')/27 = 0.88 CY

½(1.69' + 2.12')(15.08')(2')/27 = 2.13 CY

½(2.12' + 1.88')(15.08')(2')/27 = 2.23 CY

(3.55')(3.57')(2')/27 = 0.93 CY

½(3.55' + 1.24')(9.25')(2')/27 = 1.64 CY

8.93 CY

FWD: ½(1.40' + 3.71')(9.25')(2')/27 = 1.75 CY

(3.71')(3.69')(2')/27 = 1.01 CY

½(2.04' + 2.28')(15.08')(2')/27 = 2.41 CY

½(2.28' + 1.85')(15.08')(2')/27 = 2.31 CY

(3.52')(3.40')(2')/27 = 0.89 CY

½(3.52' + 1.27')(6.75')(2')/27 = 1.20 CY

9.57 CY

TOTAL: 8.93 + 9.57 = 18.50 CU YD

DATE:

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CALCULATED BY:

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COUNTY: NOB ROUTE: 83 SECTION: 0.02 SHEET 2 OF 3

SEALING OF CONCRETE SURFACES

SUPER : (20" +6") /12 × 20' /9 = 4.81 SY × 2 = 9.63 SQ YD

REAR : (4.74')(2') /9 = 1.05 SY
(4.74')(3.58') /9 = 1.89 SY
(6.02')(2.58') /9 = 1.73 SY
½(7.83' + 10.08')(6.75') /9 = 6.72 SY
(10.08')(3.54') /9 = 3.96 SY
½(8.41' + 8.84')(15.08') /9 = 14.45 SY
½(8.84' + 8.60')(15.08') /9 = 14.61 SY
(10.27')(3.53') /9 = 4.03 SY
½(10.27' + 7.96')(9.25') /9 = 9.37 SY
(5.97')(2.58') /9 = 1.71 SY
(4.64')(3.58') /9 = 1.85 SY
(4.64')(2') /9 = 1.03 SY
(3.58' + 2.58' + 7.11' + 3.62')(2') /9 = 3.75 SY
(1.28' + 1.81')(2') /9 = 0.69 SY
(16.54')(1') /9 = 1.84 SY
(3.58' + 2.58' + 8.53' + 3.63')(2') /9 = 4.29 SY
(1.33' + 1.99')(2') /9 = 0.74 SY
(19.05')(1') /9 = 2.12 SY
75.83 SY

FWD : (4.87')(2') /9 = 1.08 SY
(4.87')(3.58') /9 = 1.94 SY
(6.09')(2.58') /9 = 1.75 SY
½(8.12' + 10.43')(9.25') /9 = 9.53 SY
(10.43')(3.67') /9 = 4.25 SY
½(8.76' + 9.00')(15.08') /9 = 14.88 SY
½(9.00' + 8.57')(15.08') /9 = 14.72 SY
(10.24')(3.41') /9 = 3.88 SY
½(10.24' + 7.99')(6.75') /9 = 6.84 SY
(6.05')(2.58') /9 = 1.73 SY
(4.76')(3.58') /9 = 1.89 SY
(4.76')(2') /9 = 1.06 SY
(3.58' + 2.58' + 9.53' + 3.76')(2') /9 = 4.32 SY
(1.22' + 2.03')(2') /9 = 0.72 SY
(19.17')(1') /9 = 2.13 SY
(3.58' + 2.58' + 7.12' + 3.49')(2') /9 = 3.73 SY
(1.29' + 1.94')(2') /9 = 0.72 SY
(16.41')(1') /9 = 1.82 SY
76.99 SY

TOTAL = 9.63 + 75.83 + 76.99 = 162.45 SQ YD

TYPE 2 WATERPROOFING

REAR : (53.25')(3') /9 = 17.75 SY
FWD : (53.25')(3') /9 = 17.75 SY
35.50 SQ YD

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COUNTY: NOB ROUTE: 83 SECTION: 0.02 SHEET 3 OF 3

1" PEJF

REAR: (1.67')(2') = 3.34 SF

(1.67')(2') = 3.34 SF

6.68 SF

FWD: (1.67')(2') = 3.34 SF

(1.67')(2') = 3.34 SF

6.68 SF

TOTAL: 6.68 + 6.68 = 13.36 SQ FT

POROUS BACKFILL WITH GEOTEXTILE FABRIC

REAR: ½(1.61' + 3.86')(6.75')(2')/27 = 1.37 CY

(3.86')(3.62')(2')/27 = 1.04 CY

½(3.86' + 4.29')(15.08')(2')/27 = 4.55 CY

½(4.29' + 4.05')(15.08')(2')/27 = 4.66 CY

(4.05')(3.55')(2')/27 = 1.07 CY

½(4.05' + 1.74')(9.25')(2')/27 = 1.98 CY

14.67 CY

FWD: ½(1.90' + 4.21')(9.25')(2')/27 = 2.09 CY

(4.21')(3.49')(2')/27 = 1.09 CY

½(4.21' + 4.45')(15.08')(2')/27 = 4.84 CY

½(4.45' + 4.02')(15.08')(2')/27 = 4.73 CY

(4.02')(3.41')(2')/27 = 1.02 CY

½(4.02' + 1.77')(6.75')(2')/27 = 1.45 CY

15.22 CY

TOTAL: 14.67 + 15.22 = 29.89 CU YD

REINFORCED CONCRETE APPROACH SLABS

2[(30')(15')/9] = 100 SQ YD

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