

OFFICE CALCS

ATB-45-19.12

PAVEMENT AREA (S.R. 45):

STA. 511+25 TO STA. 511+89.35 = 64.35 FT

STA. 513+04.35 TO STA. 514+25 = 120.65 FT

PAVEMENT AREA (S.R. 45) = $[(64.35' + 120.65') \times 32'] / 9 = 657.78$ SY

APPROACH SLAB AREA:

STA. 511+89.35 TO STA. 512+04.35 = 15.00 FT

STA. 512+89.35 TO STA. 513+04.35 = 15.00 FT

APPROACH SLAB AREA = $[(15.00' + 15.00') \times 32'] / 9 = 106.67$ SY

SHOULDER LENGTH, LT.:

TOTAL = 64.35 + 15.00 + 15.00 + 120.65 = 215.00 FT

SHOULDER LENGTH, RT.:

TOTAL = 64.35 + 15.00 + 15.00 + 120.65 = 215.00 FT

ITEM 202 PAVEMENT REMOVED

STA. 511+25 TO STA. 511+89.35 = 64.35 FT

STA. 513+04.35 TO STA. 514+25 = 120.65 FT

$[(64.35' \times 22') + (120.65' \times 22')] / 9 = 452.23$ SY

QUANTITY CARRIED TO GENERAL SUMMARY = **453 SY**

ITEM 204 SUBGRADE COMPACTION

PAVEMENT AREA (S.R. 45) = 657.78

SY APPROACH SLAB AREA = 106.67 SY

ADD FOR 18" BEYOND EDGE OF PAVED AREA:

$[(215.00' + 215.00') \times 1.5'] / 9 = 71.67$ SY

TOTAL AREA = 657.78 + 106.67 + 71.67 = 836.12 SY

QUANTITY CARRIED TO GENERAL SUMMARY = **837 SY**

ITEM 301 ASPHALT CONCRETE BASE, PG64-22

PAVEMENT AREA (S.R. 45) = 657.78 SY

$[(657.78) \times 9"] / (12 \times 3) = 164.45$ CY

ADD FOR EDGE COURSE:

$[9" \times 4" \times (215.00' + 215.00')] / (12 \times 12 \times 27) = 3.98$ CY

TOTAL = 164.45 + 3.98 = 168.43 CY

QUANTITY CARRIED TO GENERAL SUMMARY = **169 CY**

ITEM 304 AGGREGATE BASE, AS PER PLAN

PAVEMENT AREA (S.R. 45) = 657.78 SY

APPROACH SLAB AREA = 106.67 SY

$[(657.78 + 106.67) \times 6" / (12 \times 3)] = 127.41 \text{ CY}$

ADD FOR EDGE COURSE (ROADWAY):

$2 \times [6" \times 13" \times (64.35' + 120.65')] / (12 \times 12 \times 27) = 7.42 \text{ CY}$

ADD FOR EDGE COURSE (APP SLAB):

$2 \times [(6" \times 6" \times (15.00' + 15.00')) / (12 \times 12 \times 27)] = 0.56 \text{ CY}$

TOTAL = 127.41 + 7.42 + 0.56 = 135.39 CY

QUANTITY CARRIED TO GENERAL SUMMARY = **136 CY**

ITEM 407 NON-TRACKING TACK COAT

PAVEMENT AREA (S.R. 45) = 657.78 SY

$[(2 \times 657.78) \times 0.06] = 78.93 \text{ GAL}$

QUANTITY CARRIED TO GENERAL SUMMARY = **79 GAL**

ITEM 441 ASPHALT CONCRETE SURFACE COURSE, TYPE 1 (448), AS PER PLAN, PG64-22

PAVEMENT AREA (S.R. 45) = 657.78 SY

$(657.78 \times 3") / (12 \times 3) = 54.82 \text{ CY}$

QUANTITY CARRIED TO GENERAL SUMMARY = **55 CY**