

OFFICE CALCS

ATB-US-20-21.86 (PART 1)

PAVEMENT AREA (PROPOSED) (W. MAIN RD.):

STA. 121+00 TO STA. 158+90 = 3790 FT

STA. 158+90 TO STA. 159+50 = 60 FT

PAVEMENT AREA = $[3790' \times 35' + 60' \times 39'] / 9 = 14998.89$ SY

PAVEMENT AREA (GORE RD.) = 284.61 SY

PAVEMENT AREA (MULBERRY ST.) = 78.51 SY

PAVEMENT AREA (LOCUST DR.) = 76.24 SY

TOTAL PAVEMENT AREA = $14998.89 + 284.61 + 78.51 + 76.24 = 15438.25$

ITEM 202 PAVEMENT REMOVED, AS PER PLAN

STA. 121+00.00 TO STA. 141+00.00 = 2000.00 FT

STA. 141+00.00 TO STA. 147+00.00 = 600.00 FT

STA. 147+00.00 TO STA. 159+50.00 = 1250.00 FT

$[(2000' + 600' + 1250') \times 40'] / 9 = 17111.11$ SY

EXISTING PAVEMENT AREA (GORE ROAD) = 223.33 SY

EXISTING PAVEMENT AREA (MULBERRY ST.) = 50.54 SY

EXISTING PAVEMENT AREA (LOCUST DR.) = 46.62 SY

TOTAL AREA = $17111.11 + 223.33 + 50.54 + 46.62 = 17431.60$ SY

QUANTITY CARRIED TO GENERAL SUMMARY = **17432 SY**

ITEM 204 SUBGRADE COMPACTION

PAVEMENT AREA (GORE RD.) = 284.61 SY

PAVEMENT AREA (MULBERRY ST.) = 78.51 SY

PAVEMENT AREA (LOCUST DR.) = 76.24 SY

TYPE 6 CURB LENGTH = 350 FT

STA. 121+00.00 TO STA. 140+55.80 = 1955.80 FT

STA. 140+55.80 TO STA. 147+73.20 = 717.40 FT

STA. 147+73.20 TO STA. 159+50.00 = 1176.80 FT

$[(1955.80' + 717.40' + 1176.80') \times 40'] / 9 = 17111.11$ SY

TOTAL PAVEMENT AREA = $284.61 + 78.51 + 76.24 + 17111.11 = 17550.47$ SY

ADD FOR EDGE COURSE AT TYPE 6 CURB: $(350' \times 1.5') / 9 = 58.33$ SY

GRAND TOTAL = $17550.47 + 58.33 = 17608.80$

QUANTITY CARRIED TO GENERAL SUMMARY = **17609 SY**

ITEM 252 FULL DEPTH PAVEMENT SAWING

STA. 121+00, U.S. 20 = 40 FT

GORE RD. = 32 FT

MULBERRY ST. = 35 FT

LOCUST DR. = 32 FT

STA. 159+50 = 41 FT

TOTAL LENGTH = $40 + 32 + 35 + 32 + 41 = 180$ FT

QUANTITY CARRIED TO GENERAL SUMMARY = **180 FT**

ITEM 253 PAVEMENT REPAIR

$[(7' \times 5') + (40' \times 8') + (95' \times 5')] / 9 = 92.2 \text{ SY}$

QUANTITY CARRIED TO GENERAL SUMMARY = 93 SY

ITEM 301 ASPHALT CONCRETE BASE, PG64-22

TOTAL PAVEMENT AREA = 15438.25 SY

$[15438.25 \times 6"] / (12 \times 3) = 2573.04 \text{ CY}$

QUANTITY CARRIED TO GENERAL SUMMARY = 2574 CY

ITEM 304 AGGREGATE BASE, AS PER PLAN

SUBGRADE COMPACTION AREA = 17590.33 SY

$[17590.33 \times 6"] / (12 \times 3) = 2931.72 \text{ CY}$

QUANTITY CARRIED TO GENERAL SUMMARY = 2932 CY

ITEM 407 NON-TRACKING TACK COAT

PAVEMENT AREA = 15438.25 SY

$[(2 \times 15438.25) \times 0.06] = 1852.59 \text{ GAL}$

QUANTITY CARRIED TO GENERAL SUMMARY = 1853 GAL

ITEM 441 ASPHALT CONCRETE SURFACE COURSE, TYPE 1 (448), AS PER PLAN, PG70-22M

PAVEMENT AREA = 15438.25 SY

$(15438.25 \times 1.25") / (12 \times 3) = 536.05 \text{ CY}$

QUANTITY CARRIED TO GENERAL SUMMARY = 537 CY

ITEM 441 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2 (448)

PAVEMENT AREA = 15438.25 SY

$(15438.25 \times 1.75") / (12 \times 3) = 750.47 \text{ CY}$

QUANTITY CARRIED TO GENERAL SUMMARY = 751 CY