

CALCULATIONS

PCB 10-87
TTL 11-87

MUSKINGUM COUNTY
MUS - CR 719

55

PAVEMENT AREA

CR 719 STA. 521+57.04 TO STA. 552+82.00

$A = (3124.96 \times 48) + \frac{1}{2}(11 \times 35) + \frac{1}{2}(27 \times 5.6)$ RADIUS RETURN RT. SIDE M. • U.S. 22
 $+ \frac{1}{2}(53 \times 38.5) + \frac{1}{2}(30 \times 8) + \frac{1}{2}(23 \times 6)$ RADIUS RETURN LT. SIDE M. • U.S. 22
 $- 8.375(1.04 + 126)(48)$ DEDUCT FOR RAILROAD CROSSING

= 150,550.83 SF

JUANITA DRIVE

$A = (301 \times 20) - (\pi(40)^2 \times 2) + 2(41 \times 40 \times 2)$

= 6,728.25 SF

EL CAMINO DRIVE

$A = \frac{1}{2}(16 \times 20) + (148.46 \times 20) + \frac{1}{2}(68 \times 32)2$

$- \pi(40)^2(107.096/360) + \frac{1}{2}(40 \times 27.5)2 - \pi(40)^2(68.85/360)$

= 4528.53 SF

ITEM 404 ASPHALT CONCRETE

$V = (150,550.83 + 6728.25 + 4528.53) 0.1042 = 27$

TOTAL ITEM 404 TO GENERAL SUMMARY

= 674.46 CY

= 625.00 CY

ITEM 402 ASPHALT CONCRETE

$V = (150,550.83 + 6728.25 + 4528.53) 0.1458 = 27$

TOTAL ITEM 402 TO GENERAL SUMMARY

= 613.76 CY

= 614.00 CY

ITEM 301 BITUMINOUS AGGREGATE BASE

$V = (150,550.83) 0.5833 = 27$

TOTAL ITEM 301 TO GENERAL SUMMARY

= 3252.46 CY

= 3253.00 CY

ITEM 609 COMBINATION CURB & GUTTER TYPE II

$L = (3038.05 + 3092.82) + 73.06 + 89.54 - 8.7 - 8.5$

$- 104.67 - 101.33 - 10.2 - 10.7 + (61.09 \times 2) - 71.03 + 45.67$

TOTAL ITEM 609 TO GENERAL SUMMARY

= 6298.25 LF

= 6298.00 LF

ITEM 304 AGGREGATE BASE

$V = [(150,550.83 + (6298.25 \times 3) + 6728.25$

$+ 4528.53 + 260.09 + (130.74 + 168.41) 0.5] 0.6667 = 27$

TOTAL ITEM 304 AGGREGATE BASE

= 4472.09 CY

= 4472.00 CY

ITEM 605 AGGREGATE DRAINS

JUANITA & EL CAMINO

$L = (6 + 4) 8$

TOTAL ITEM 605 TO GENERAL SUMMARY

= 80 LF

= 80 LF

ITEM 203 SUBGRADE COMPACTION

$A = (150,550.83 + 6728.25 + 4528.53 + 6298.25 \times 2.5) \div 9$

TOTAL ITEM 203 TO GENERAL SUMMARY

= 18,728.14 SY

= 18,729.00 SY

ITEM 203 PROOF ROLLING

$H = (18,729 \div 3000) \times 1$

TOTAL ITEM 203 TO GENERAL SUMMARY

= 6.28 HR.

= 7.00 HR.

ITEM 408 BITUMINOUS PRIME COAT

$V = (150,550.83 + 6728.25 + 4528.53) 0.4 = 9$

TOTAL ITEM 408 TO GENERAL SUMMARY

= 7191.45 GALS

= 7192.00 GALS

ITEM 659 SEEDING & MULCHING

SEEDING & MULCHING FROM GENERAL SUMMARY

DEDUCT FOR DITCH PROTECTION

DEDUCT FOR ROCK CP $[317.50 \times 27] \div 9$

TOTAL ITEM 659 TO GENERAL SUMMARY

= 36,346 SY

= 553 SY

= 635 SY

= 35,158 SY

ITEM 653 AGRICULTURAL LIMING

$V = (35,158 \times 9 \times 100) \div (2000 \times 1000)$

TOTAL ITEM 653 TO GENERAL SUMMARY

= 15.82 TON

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ITEM 653 COMMERCIAL FERTILIZER

$V = (35,158 + 553)(9 \times 20) \div (2000 \times 1000)$

TOTAL ITEM 653 TO GENERAL SUMMARY

= 3.21 TON

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