

407 - Tack Coat

0.05 gal/sy new pmt = ODOT to handle tack w/ their overlay
0.08 gal/sy old pmt.

224: $6032 + 11778 = 17810$ SF

223: $3003 + 1475 = 4478$ SF

22288 SF = 2476.4 SY

tack over exist: $(2476.4 \text{ sy}) (0.08 \text{ gal/sy}) = 198.1 \text{ gal}$

tack on full depth $1475 \text{ SF} = (163.9 \text{ sy}) (0.05) = 8.2 \text{ gal}$

$206.3 \text{ gal} = 0.21 \text{ MGAL}$

408 - Drive Coat

0.4 gal/sy over berm area only

224: $232 \text{ LF} + 232 + 1122 = 1586 \text{ LF } @ 2' \text{ wide} = 3172 \text{ SF} = 352.4 \text{ SY}$

$352.4 @ 0.4 = 141 \text{ gal}$

659 - Lime $92\# / 1000 \text{ SF} \quad (847 \text{ SF}) (9) = 7623 \text{ SF} = 0.18 \text{ TL}$

$(92\# / 1000 \text{ SF}) (7.62) = 701.3 \# = 0.35 \text{ Ton}$

659 - Fert $20\# / 1000 \text{ SF} \quad 7623 \text{ SF}$

$(20) (7.62) = 152.4 \# = 0.08 \text{ Ton}$

659 - Water $300 \text{ gal} / 1000 \text{ SF} \quad 7623 \text{ SF}$

$(300) (7.62) = 2286 \text{ gal} = 2.3 \text{ MGAL}$

US 224 - Quantities

4 Jan 2021

Sheet 14

Pavement $59732 - 59500 = 232$ LF

Total area (P-Line) 1.50 sq in = $1.5 \times 20 \times 10 = 300$ SF @ $26'$ = 7800 CF
 $232 \times 26 = 6032$ SF @ $1.5'$ = 754 CF

Surf. 441 $\frac{1.5}{12} (6032) \frac{1}{27} = 27.9$ CY

301 $(7200 - 754) \frac{1}{27} = 238.7$ CY

Berm 304 300 SF @ $4'$ = 1200 CF @ $\frac{1}{27}$ = 44.5 CY

Drives 304 $(1137$ SF @ $\frac{1.86+0}{2}$) = 1057.4 CF = 39.2 CY

254 26 @ $4'$ @ $\frac{1}{9}$ = 11.6 SY

Sheet 15

Pavement: ^{224:} $60185 - 59732 = 453$ LF @ $26'$ = 11778 SF

^{223:} 3003 SF

^{223:} fill depth 1475 SF

(224) 301 fill profile: 3.05 in² = $3.05 \times 20 \times 10 = 610$ SF @ $26'$ = 15860 CF = 587.4 CY

(223) 301 " 3003 SF @

overlay 441 $\frac{1.5}{12} (13350) \frac{1}{27} = 77.4$ CY

fill depth 441 $\frac{3.5}{12} (1475) \frac{1}{27} = 15.9$ CY

301

base 364 $\frac{8}{12} (1475) \frac{1}{26} = 36.4$ CY

Berm 304 $453 + 513 + 156 = 1122$ @ $2'$ = $(2244$ SF @ $1.5'$) @ $\frac{1}{27} = 124.7$ CY

Drives 304 215.3 SF @ $(\frac{1.5+0}{2}) = 161.5$ CF = 6 CY

driveway 441 352 SF @ $2\frac{1}{2}' = 58.7$ CF = 2.2 CY

pmt paving 254 $(26$ @ $4')$ @ $\frac{1}{9} = 11.6$ SY

Overall check: $453 + 232 = 685$ CF @ 26' wide = 17810 SF

$$(17810 @ 1.5) \frac{1}{27} = 990 \text{ CY}$$

Sheet 15

224 Section

$$453 \text{ CF} @ 26' = 11778 \text{ SF}$$

Surf. 441: $\frac{1.5}{12} (11778) \frac{1}{27} = 54.5 \text{ CY}$

301: $587.4 \text{ CY} - 54.5 \text{ CY} = 532.9 \text{ CY}$

223 Section

Overlay area = 3003 SF

Surf. 441: $\frac{1.5}{12} (3003) \frac{1}{27} = 13.9 \text{ CY}$

301: $(3003 \text{ SF}) \left(\frac{1.5+0}{2} \right) = 2253 \text{ CF} = 83.4 \text{ CY}$

Full depth = 1475 SF

Surf. 441: $\frac{1.5}{12} (1475) \frac{1}{27} = 6.8 \text{ CY}$

Int. 441: $\frac{3.5}{12} (1475) = 15.9 \text{ CY}$

304: $\frac{8}{12} (1475) = 36.4 \text{ CY}$

301: $\frac{3}{12} (1475) = 13.7 \text{ CY}$

204: $1475 \frac{1}{4} = 163.9 \text{ SF}$

202: Dunt removal $163 @ 0.5' = 81.5 \text{ SF} = 9.1 \text{ SY}$

202: Agg Berm Rem. $1030 \text{ SF} = 114.4 \text{ SY}$

TOTALS:

301: $238.7 + 532.9 + 83.4 + 13.7 = 868.7 \text{ CY}$

304: $44.5 + 39.2 + 124.7 + 6 @ 36.4 = 250.8 \text{ CY}$

Int. 441: $= 15.9 \text{ CY}$

Surf. 441: $27.9 + 2.2 + 54.5 + 13.9 + 6.8 = 105.3 \text{ CY}$