

PAVEMENT CALCUALTIONS

PAVEMENT CALCULATIONS BASED ON LENGTH OF 205',
 AN AVERAGE PAVEMENT WIDTH OF 10.0',
 AND AN AVERAGE SHOULDER WIDTH OF 1.0'

ITEM 202 - PAVEMENT REMOVED

STA. 20+80 TO STA. 21+22
 6.5' AVG WIDTH x 42' ÷ 9 = 30 SQ. YD.

ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE (1 1/4")

STA. 19+17 TO STA. 20+80
 10.0' AVG. WIDTH x 163' ÷ 9 = 181 SQ. YD.

STA. 20+80 TO STA. 21+22
 3.5' AVG. WIDTH x 42' ÷ 9 = 16 SQ. YD.
 USE 197 SQ. YD.

ITEM 441 - ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), (PG70-22M)

STA. 19+17 TO STA. 20+80
 10.0' AVG. WIDTH x 163' x 1.25" ÷ 12 ÷ 27 = 6 CU. YD.

STA. 20+80 TO STA. 21+22
 6.5' AVG. WIDTH x 42' x 3" ÷ 12 ÷ 27 = 3 CU. YD.
 USE 9 CU. YD.

ITEM 301 - ASPHALT CONCRETE BASE, (PG64-22M), (449)

STA. 20+80 TO STA. 21+22
 (6.5' AVG. WIDTH + 4" ÷ 12) x 42' x 8" ÷ 12 ÷ 27 = 7 CU. YD.

ITEM 304 - AGGREGATE BASE

STA. 20+80 TO STA. 21+22
 (6.5' AVG. WIDTH + 8" ÷ 12) x 42' x 6" ÷ 12 ÷ 27 = 6 CU. YD.

SHOULDER:
 1' AVG. WIDTH. x 205' x 8" ÷ 12 ÷ 27 = 5 CU. YD.
 USE 11 CU. YD.

ITEM 407 - TACK COAT

STA. 19+17 TO STA. 20+80
 10.0' AVG. WIDTH x 163' ÷ 9 x 0.085 x 1 APP. = 15 GAL.

STA. 20+80 TO STA. 21+22
 6.5 AVG. WIDTH x 42' ÷ 9 x 0.085 x 2 APP. = 5 GAL.
 3.5 AVG. WIDTH x 42' ÷ 9 x 0.085 x 1 APP. = 1 GAL.
 USE 21 GAL.

ITEM 408 - PRIME COAT, AS PER PLAN

1' AVG. WIDTH x 205' ÷ 9 x 0.4 = 9 GAL.

ITEM 202 - GUARDRAIL REMOVED

USE 213 FT.

ITEM 606 - GUARDRAIL, TYPE MGS HALF POST SPACING

USE 212.5 FT.

ITEM 621 - RAISED PAVEMENT MARKER REMOVED

USE 6 EACH

ITEM 621 - RPM

USE 6 EACH

ITEM 626 - BARRIER REFLECTOR, TYPE 2 (BIDIRECTIONAL)

USE 5 EACH

ITEM 646 - EDGE LINE, 6"

USE 0.04 MILE

ITEM 646 - CENTER LINE

USE 0.04 MILE

ITEM 614 - WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (BIDIRECTIONAL)

USE 2 EACH

ITEM 622 - PORTABLE BARRIER, UNANCHORED

USE 380 FT.

WALL CALCULATIONS

WALL QUANTITIES BASED ON A WALL LENGTH OF 175'

ITEM 507 - STEEL PILES HP12X53, FURNISHED

25' AVG. LENGTH x 43 SHAFTS = 1,075 FT.
 30' AVG. LENGTH x 7 SHAFTS = 210 FT.
 1,285 FT.

ITEM 524 - DRILLED SHAFTS, 24" DIAMETER, ABOVE BEDROCK, AS PER PLAN

24' AVG. LENGTH x 50 SHAFTS = 1,200 FT. ——— 15' AVG. LENGTH X 50 SHAFTS = 750 FT.

ITEM 524 - DRILLED SHAFTS, 24" DIAMETER, INTO BEDROCK, AS PER PLAN

10' AVG. LENGTH x 50 SHAFTS = 500 FT.

ITEM 524 - DRILLED SHAFTS, MISC.: PLUG PILE, 24" DIAMETER, UNREINFORCED

10' AVG. LENGTH x 43 SHAFTS = 430 FT.

ITEM 524 - DRILLED SHAFTS, MISC.: PLUG PILE, 30" DIAMETER, UNREINFORCED

15' AVG. LENGTH x 6 SHAFTS = 90 FT.

DESIGN AGENCY



DESIGNER
 LNW

REVIEWER
 MVC 08-30-23

PROJECT ID
 118150

SHEET TOTAL
 P.06 | 13

NOTE: ALL QUANTITIES CARRIED TO THE GENERAL SUMMARY UNLESS OTHERWISE NOTED