

PAVEMENT CALCULATIONS

LAK-615-0.06

Line Data

Begin Project Station 0+10
 End Project Station 8+00
 Length of Project 790 Lin. ft.
 Minus Short Station
 Sta 5+99.60 & Sta 6+49.50 = 49.90 Lin. ft.
 Total length of Project 740.10 Lin. ft. or .14 Miles

BITUMINOUS TACK COAT (0.10 Gal. per sq. yd.) ITEM T-30

Appr. Slab Sta 3+39.81 to Sta 3+54.81 - 15x26=390÷9 = 43.33 Sq. Yds.
 Bridge Sta 3+54.81 to Sta 5+00.19 - 145.38x28=4070.64÷9 = 452.29 Sq. Yds.
 Appr. Slab Sta 5+00.19 to Sta 5+15.19 - 15x26=390÷9 = 43.33 Sq. Yds.
 Total 538.95 Sq. Yds.
 538.95 Sq. Yds. x 0.10 Gallon = 53.90 Gallons
 Use 54 Gallons.

ASPHALTIC CONCRETE SURFACE COURSE ITEM T-35

Sta 0+49.37 to Sta 1+78.38 - 129.01x22=2838.22÷9 = 315.36 Sq. Yds.
 Sta 1+78.38 to Sta 3+39.81 - 161.43x24=3874.32÷9 = 430.48 Sq. Yds.
 Appr. Slab Sta 3+39.81 to Sta 3+54.81 - 15x26=390÷9 = 43.33 Sq. Yds.
 Bridge Sta 3+54.81 to Sta 5+00.19
 Appr. Slab Sta 5+00.19 to Sta 5+15.19 - 15x26=390÷9 = 43.33 Sq. Yds.
 Sta 5+15.19 to Sta 5+99.60 & Sta 6+49.50 to Sta 6+78.51 - 113.42x22=2495.46÷9 = 277.27 Sq. Yds.
 Sta 6+78.51 to Sta 8+00 - 121.49x18=2186.82÷9 = 242.98 Sq. Yds.
 Extra Area, Begin Project 170.00 Sq. Yds.
 Total 1409.75 Sq. Yds.
 1409.75 Sq. Yds. ÷ 36 x 1.5 = 63.44 Cu. Yds. + 32.3 Cu. Yds. for Drives = 95.74 Cu. Yds.
 Use 96 Cu. Yds.

WATER ITEM E-11

Embarkment 463 x 5 ÷ 1000 = 2.31 M. Gals.
 B-119 348 x 5 ÷ 1000 = 1.74 M. Gals.
 TOTAL 4.05 M. Gals.
 USE 4 M. Gals.

REINFORCED CONCRETE APPROACH SLAB ITEM I-7

80 Sq. Yds

COMPACTED SUBGRADE ITEM E-1

Crushed Aggr. + Appr Slabs 1645 Sq. Yds

ASPHALTIC CONCRETE LEVELING COURSE ITEM B-35

Same as Asphaltic Concrete Surface Course Minus Drives 63 Cu. Yds.

CRUSHED AGGREGATE BASE COURSE - ITEM B-119

Sta 0+49.37 to Sta 1+78.38 - 129.01x24=3096.24÷9 = 344.03 Sq. Yds.
 Sta 1+78.38 to Sta 3+39.81 - 161.43x26=4197.18÷9 = 466.35 Sq. Yds.
 Sta 5+15.19 to Sta 5+99.60 & Sta 6+49.50 to Sta 6+78.51 - 113.42x24=2722.08÷9 = 302.45 Sq. Yds.
 Sta 6+78.51 to Sta 8+00 - 121.49x20=2429.80÷9 = 269.98 Sq. Yds.
 Extra Area, Begin Project 182.00 Sq. Yds.

Total 1564.81 Sq. Yds.
 1564.81 Sq. Yds. ÷ 36 x 8 = 347.73 Cu. Yds.
 Use 348 Cu. Yds.

Add for Drives + Mailbox Turnouts

80.1 Cu. Yds.

BITUMINOUS PRIME COAT (0.35 Gal. per sq. yd.) Item T-30

Same as Crushed Aggregate Base Course 1564.81 Sq. Yds.
 1564.81 Sq. Yds. x 0.35 gallons = 547.68 Gallons
 Use 548 Gallons

GENERAL SUMMARY

Item No	Quantities	Unit	Roadway
E-1	1398	Cu. Yds.	Roadway Excavation
E-8	1228	Sq. Yds.	Removal and Disposal of Existing Pavement (as per plan)
I-2	246	Lin. ft.	12" Pipe for Storm Sewers
I-2	82	Lin. ft.	18" Pipe for Storm Sewers under pavement
I-2	185	Lin. ft.	15" Pipe for Storm Sewers
I-8	7	Each	Standard No. 1-2 A Catch basin
I-8	4	Each	Monument Boxes in place
I-15	165	Lin. ft.	Removal & Disposal of Existing Guard Rail
I-15	25	Lin. ft.	Guard Rail - Steel Beam Type (Deep)
S-1	.68	Cu. Yds.	Class "E" Concrete for Culvert Ends
L-9	2701	Sq. Yds.	Seeding and Protecting
L-9	.36	Tons	Commercial Fertilizer (10-6-4)
E-11	4	M. Gallons	Water
Pavement			
T-35	63	Cu. Yds.	Asphaltic Concrete Surface Course Type "A" (70-80)
B-35	63	Cu. Yds.	Asphaltic Concrete Leveling Course
B-119	348	Cu. Yds.	Crushed Aggregate Base Course
B-119	125 80	Cu. Yds.	Crushed Aggregate Base Course for driveways
T-30	548	Gallons	Bituminous Prime Coat (0.35 Gallons per sq. yd.) Sec. M-5.7 RT 2 or 3
T-30	54	Gallons	Bituminous Tack Coat (0.10 Gallons per sq. yd.) Sec. M-5.5 M.S.-2 or S.S.-1
I-7	80	Sq. Yds.	Reinforced Concrete Approach Slabs
E-1	1645	Sq. Yds.	Compacted Subgrade