

# CALCULATIONS

## T-35 1" ASPHALTIC CONCRETE SURFACE COURSE TYPE "C" (70-85)

S.R. 84	STA. 71+40 TO STA. 71+50	$41 \times 10 \times 0.083 \div 27$	= 1.3	C.Y.
	STA. 98+00 TO STA. 99+50	$(28+18) \div 2 \times 150 \times 0.083 \div 27$	= 10.6	C.Y.
	STA. 99+50 TO STA. 99+60	$18 \times 10 \times 0.083 \div 27$	= 0.6	C.Y.
		<u>TOTAL</u>	= 12.5	C.Y.

## T-30 BITUMINOUS PRIME COAT @ 0.4 GAL. PER SQ. YD.

S.R. 84	STA. 98+00 TO STA. 99+50	$[(28+18) \div 2 \times 150 \div 9] \times 0.40$	= 153.3	GAL.
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## T-30 BITUMINOUS TACK COAT @ 0.10 GAL. PER SQ. YD.

S.R. 84	STA. 71+40 TO STA. 71+50	$41 \times 10 \times \frac{1}{9} \times 0.1$	= 4.6	GAL.
	STA. 99+50 TO STA. 99+60	$18 \times 10 \times \frac{1}{9} \times 0.1$	= 2.0	GAL.
		<u>TOTAL</u>	= 6.6	GAL.

## B-35 1 1/2" ASPHALTIC CONCRETE LEVELING COURSE (70-85)

S.R. 84	STA. 71+40 TO STA. 71+50	$41 \times 10 \times 0.125 \div 27$	= 1.9	C.Y.
	STA. 98+00 TO STA. 99+50	$(28+18) \div 2 \times 150 \times 0.125 \div 27$	= 16.0	C.Y.
	STA. 99+50 TO STA. 99+60	$18 \times 10 \times 0.125 \div 27$	= 0.8	C.Y.
		<u>TOTAL</u>	= 18.7	C.Y.

## B-35 3" ASPHALTIC CONCRETE BASE COURSE (70-85)

S.R. 84	STA. 98+00 TO STA. 99+50	$(28+18) \div 2 \times 150 \times 0.25 \div 27$	= 31.9	C.Y.
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## B-19 8" AGGREGATE BASE COURSE

S.R. 84	STA. 98+00 TO STA. 99+50	$(28+18) \div 2 \times 150 \times 0.67 \div 27$	= 85.6	C.Y.
		$+(2.75 \times 150 \times 0.125 \div 27 \times 2)$	= 3.8	C.Y.
		<u>TOTAL</u>	= 89.4	C.Y.

## T-71 9" REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT

S.R. 84	STA. 71+50 TO STA. 72+28	$(48+29) \div 2 \times 78 \div 9$	= 333.7	S.Y.
	STA. 72+28 TO STA. 98+00	$29 \times 2572 \div 9$	= 8,287.6	S.Y.
		<u>TOTAL</u>	= 8,621.3	S.Y.

## I-22 6" SUBBASE

S.R. 84	STA. 71+50 TO STA. 72+28	$(52.5+33.5) \div 2 \times 78 \times 0.5 \div 27$	= 62.1	C.Y.
	STA. 72+28 TO STA. 86+40	$33.5 \times 1412 \times 0.5 \div 27$	= 876.0	C.Y.
	STA. 86+40 TO STA. 97+10	$32.25 \times 1070 \times 0.5 \div 27$	= 639.0	C.Y.
	STA. 97+10 TO STA. 98+00	$33.5 \times 90 \times 0.5 \div 27$	= 55.8	C.Y.
	STA. 98+00 TO STA. 99+50	$(33.5+23.5) \div 2 \times 150 \times 0.5 \div 27$	= 79.2	C.Y.
		<u>TOTAL</u>	= 1,712.1	C.Y.

## E-8 REMOVAL & DISPOSAL OF EXISTING RIGID PAVEMENT

S.R. 84	STA. 71+50 TO STA. 72+58.4	$(42+21.8) \div 2 \times 108.4 \div 9$	= 384.2	S.Y.
	STA. 72+58.4 TO STA. 73+00	$(21.8+18) \div 2 \times 41.6 \div 9$	= 92.0	S.Y.
	STA. 73+00 TO STA. 87+40	$18 \times 1440 \div 9$	= 2880.0	S.Y.
	STA. 87+40 TO STA. 90+00	$(20+24) \div 2 \times 175 \div 9$	= 427.8	S.Y.
		$(40+24) \div 2 \times 100 \div 9$	= 355.6	S.Y.
	STA. 90+00 TO STA. 93+50	$22.5 \times 350 \div 9$	= 875.0	S.Y.
	STA. 93+50 TO STA. 95+75	$(40+22.5) \div 2 \times 95 \div 9$	= 329.9	S.Y.
		$(22.5+20) \div 2 \times 150 \div 9$	= 354.2	S.Y.
	STA. 95+75 TO STA. 96+31	$(20+19) \div 2 \times 56 \div 9$	= 121.3	S.Y.
	STA. 96+31 TO STA. 99+50	$18 \times 319 \div 9$	= 638.0	S.Y.
		<u>TOTAL</u>	= 6,458.0	S.Y.

## E-8 REMOVAL & DISPOSAL OF EXISTING ASPHALT WEARING COURSE

S.R. 84	STA. 71+40 TO STA. 71+50	$41 \times 10 \div 9$	= 45.5	S.Y.
	STA. 99+50 TO STA. 99+60	$18 \times 10 \div 9$	= 20.0	S.Y.
		<u>TOTAL</u>	= 65.5	S.Y.

## E-8 REMOVAL & DISPOSAL OF EXISTING SIDEWALK

S.R. 84	STA. 78+41 RT.	$4 \times 10$	= 40	S.F.
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## I-12 STANDARD TYPE 2-A CONCRETE CURB

S.R. 84	STA. 71+50 TO STA. 79+17 RT.	= 767	L.F.	
	STA. 71+50 TO STA. 98+00 LT.	= 2650	L.F.	
	STA. 79+86 TO STA. 83+41 RT.	= 355	L.F.	
	STA. 84+06 TO STA. 89+23 RT.	= 517	L.F.	
	STA. 89+68 TO STA. 93+82 RT.	= 414	L.F.	
	STA. 94+21 TO STA. 98+00 RT.	= 379	L.F.	
		<u>SUB TOTAL</u>	= 5082	L.F.
		-DEDUCTION FOR CATCH BASIN	= - 54	L.F.
		<u>TOTAL</u>	= 5028	L.F.

## I-12 TYPE "6" CONCRETE CURB AS PER PLAN

S.R. 84	STA. 98+00 TO STA. 99+50	$150 \times 2$	= 300.0	L.F.
		-DEDUCTION FOR CATCH BASINS	= - 3.5	L.F.
		<u>TOTAL</u>	= 296.5	L.F.