

CPD 06-8, Reclaimed Asphalt Pavement (RAP)
 Sample Backup Calculations to Support Agreed Unit Price Credit to the State

Asphalt Concrete, \$/ton, as Planned, 6% Asphalt Content:

Aggregate, \$/ton, Delivered to Hot Plant:				
			FA Markup	
Material:	Trucking:	Net:	15%	Total
\$7.00	\$3.00	\$10.00	\$1.50	\$11.50

Asphalt Binder, \$/ton, Delivered to Hot Plant:				
			FA Markup	
Material:	Trucking:	Net:	15%	Total
\$365.00	\$18.00	\$383.00	\$57.45	\$440.45

Asphalt Binder, \$/ton of AC with 6% Asphalt Content:				
\$440.45	X	0.06	=	\$26.43

Asphalt Binder, \$/ton of AC w/ RAP and 5.3% Asphalt Content				
\$440.45	X	0.053	=	\$23.34

Difference = Asphalt Binder Savings, \$/ton (\$3.08)

Aggregate Cost Savings as Changed (AC includes 15% RAP), \$/ton				
	Aggregate	Material Saved	15%	15% Savings
	\$11.50			(\$1.73)

Sum = Material Cost Savings w/ RAP, \$/ton (\$4.81)

Asphalt Concrete Increased Costs for Mix Design, \$/ton			
	\$/Mix Design	Tons/Job	\$/ton
	\$3,000.00	10,000	\$0.30

Asphalt Concrete Increased Costs for Quality Control, \$/ton			
	\$/day	Tons/day	\$/ton
	\$1,000.00	2,500	\$0.40

Sum = Net Savings for 15% RAP, Credit to the State, \$/ton			
Material	Testing	Mix Design	\$/ton
(\$4.81)	\$0.30	\$0.40	(\$4.11)

Note: These values are for example only, and are meant only to show the types of costs to consider for the adjustment calculation. Actual costs will vary from project to project, depending on mix design, asphalt content, trucking distances, asphalt and aggregate costs, quantity of asphalt concrete, etc.