

20 miles of Rumble Strips with Resurfacing vs. Retrofit projects

Unit prices and incidental costs:

Bid item: 20 miles of ground-in rumble strips -- 20 mi x \$650/mi	= \$13,000
Incidentals to rumble strip construction:	
clean up of debris: \$90/hr x 8hrs x 5 days	= \$3,600
dump trucks for disposal: \$60/hr x 2 trucks x 8hrs x 5 days	= \$4,800
M&PT labor: 3 men x \$25/hr x 1.4 benefits x 8hrs x 5 days	= \$4,200
M&PT signs, arrow boards, message boards	= \$1,000
Two additional mobilizations (phase work): 2 mobs x \$2,000/mob	= \$4,000
General contractor mark-up of 5%	= \$880
Incidentals total:	= \$18,480
Milling + incidentals total:	= \$31,480
Per mile price: \$31,480 / 20 miles	= \$1,574/mi
Per mile price for stand-alone projects (inclndg all incidentals)	= \$650/mi