

**From:** [Morgan Cotten](#)  
**To:** [Laura Seaton](#)  
**Subject:** FW: Unit Price  
**Date:** Tuesday, February 17, 2015 8:09:35 AM

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Laura, please forward this to the Bike task force. This was requested at the last meeting

*Morgan L. Cotten, P.E.*  
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**From:** Steve Sun  
**Sent:** Friday, February 13, 2015 11:37 AM  
**To:** Morgan Cotten  
**Subject:** Unit Price

Morgan,

We haven't done any project of only adding 4' or 6' paved shoulders yet. The Flint Rock Road safety Improvements projects including widening of lanes and adding shoulders but it also includes significant modification to horizontal and vertical alignments and reconstruction of existing pavement. The recent cost estimate for the 5' wide concrete sidewalk along Decker Lane is about \$180 per foot. Use it as a reference, I estimate the cost for 4' paved shoulder will be about \$160 per foot and for 6' paved shoulder will be about \$180 per foot. For the 10' wide shared used path it will be about \$260 per foot for concrete and \$240 per foot for asphalt. For 12' wide shared use path it will be \$290 per foot for concrete and \$270 per foot for asphalt. The unit cost of the concrete or asphalt pavement is only a small portion of the total project cost. The project cost include ditch realignment, driveway reconstruction, culvert extension, safety end treatment, excavation/embankment, retaining wall, safety barrier, E/S control, traffic control, etc. Engineering, design and testing cost is also included. The table below summarizes the above estimates.

All Costs	\$/FT		\$/FT
4' asphalt shoulder	\$160	6' asphalt shoulder	\$180
10' conc shared use path	\$260	10' asphalt shared use path	\$240
12' conc shared use path	\$290	12' asphalt shared use path	\$270
ROW 10' wide	(\$30)	ROW 20' wide	(\$60)

Steve

