

# Town Road Improvement Project

## Cost Information Update

Mark Barden – Town & Country Engineering

Original Cost Summary

Updated Cost Summary

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I've reviewed the estimates for road construction and have revised the asphalt estimate based on current asphalt pricing. The chip seal and gravel estimates (Highlighted below) seem reasonable to me, if not a bit high. For your presentation, that seems fine.

	GRAVEL	CHIP SEAL	ASPHALT
GRAVEL	\$40,000.00	\$ 60,000.00	\$115,000.00
CHIP SEAL		\$ 95,000.00	\$115,000.00
ASPHALT			\$115,000.00

Note: Asphalt Cost was \$155,000,  
Not \$115,00.

As I discussed with you and Greg on Tuesday, the asphalt pavement prices are low. My suspicion of the price in your current table is that is based on a one layer thickness of 2.25 inches. This is typical of what many towns use for low traffic volume roads. I would be more comfortable with the 3.5 inches due to the unknown thickness of the base course material.

I have provided new estimated costs in the table below, with the following assumptions:

	GRAVEL	CHIP SEAL	ASPHALT
GRAVEL	\$40,000.00	\$ 60,000.00	\$197,000.00
CHIP SEAL		\$ 95,000.00	\$ 216,000.00
ASPHALT			\$ 216,000.00

My assumptions are as follows:

Dimensions:

- Length – 1 mile
- Pavement width – 22'
- Shoulder width – 2'

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### Original Cost Summary

2015 Cost Estimates with one-time \$700,000 fixed cost

Do It All with Asphalt Upgrades				Finance	75%	\$5,318,475	
% of Dollars	Accum. Miles	%	Cost by 20% Increments	Grants	25%	\$1,772,825	
41%	19.05	20	\$2,635,600				
22%	36.81	20	\$1,413,450				
16%	55.58	20	\$1,040,400				
11%	74.35	20	\$683,950				
10%	92.29	20	\$617,900				
		100	\$6,391,300			\$7,091,300	

Do It All with Chip Seal				Finance	75%	\$4,622,138	\$696,338
% of Dollars	Accum. Miles	%	Cost by 20% Increments	Grants	25%	\$1,540,713	\$232,113
34%	19.05	20	\$1,846,800				
23%	36.81	20	\$1,273,800				
19%	55.58	20	\$1,040,400				
13%	74.35	20	\$683,950				
11%	92.29	20	\$617,900				
		100	\$5,462,850			\$6,162,850	\$928,450
							\$928,450

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### Updated Cost Summary

2017 Updated Costs with one-time \$700,000 fix costs

Do It All with Asphalt Upgrades				
% of Dollars	Accum. Miles	%	Cost by 20% Increments	
47%	19.05	20	\$3,481,600	Finance 75% <b>\$6,120,191</b>
22%	36.81	20	\$1,636,405	Grants 25% \$2,040,064
14%	55.58	20	\$1,040,400	\$8,160,255
9%	74.35	20	\$683,950	
8%	92.29	20	\$617,900	
		100	<b>\$7,460,255</b>	

Do It All with Chip Seal				
% of Dollars	Accum. Miles	%	Cost by 20% Increments	
33%	19.05	20	\$1,846,800	Finance 75% <b>\$4,728,506</b> \$1,391,685
25%	36.81	20	\$1,415,625	Grants 25% \$1,576,169 \$463,895
19%	55.58	20	\$1,040,400	\$6,304,675 <b>\$1,855,580</b>
12%	74.35	20	\$683,950	
11%	92.29	20	\$617,900	
		100	<b>\$5,604,675</b>	\$1,855,580

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Fixed Costs