



Preliminary Impact Comparison

US 51, Stoughton to McFarland

I-39/90 - US 12/18 (Madison South Beltline)



WisDOT I.D. 5845-06-02
April 13, 2011

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		<i>Alternatives Being Dismissed</i>				
Alternative Name		Alternative A	* Alternative B	Alternative C	Alternative D	Stoughton Bypass
Alternative Schematic		Low Build				
Description		Spot intersection improvements, passing lane east of Stoughton	4-lane US 51	4-lane WIS 138	4-lane County N	Included w/each 4-lane alternative
Project Length						
Length of 4-Lane Improvements	Miles	n/a	6.8	5.7	4.8	5.3 to 6.6
Preliminary Cost Estimate Fiscal Year 2011 Basis						
Preliminary Construction Cost	Millions	\$11 to \$15	\$43 to \$48	\$30 to \$35	\$25 to \$30	\$14 to \$25
Preliminary Real Estate Cost	Millions	\$1	\$11	\$8	\$7	\$7 to \$11
Total Preliminary Cost ¹	Millions	\$12 to \$16	\$54 to \$59	\$38 to \$43	\$32 to \$37	\$21 to \$36
Land Converted to R/W						Average values given
Agricultural Area	Acres	6	131	61	52	63
Wetlands Area	Acres	1	7	7	11	2
Upland Area	Acres	0	12	1	3	2
Other Area ²	Acres	2	16	19	21	19
Total Area	Acres	10	166	88	87	86
Real Estate						
Residential Relocations	Number	1	10	11	5	3 to 10
Business Relocations	Number	0	3	0	0	1 to 2
Farm Building Impact ³	Number	0	3	2	0	0

NOTES

* At the May 2009 Public Information Meeting, there were two alternatives for a 4-lane US 51 expansion. One was Alt. B and it included a north-south interchange at County B East and a 4-lane urban section south to WIS 138. The other was Alt. B1 and it included an east-west interchange at County B East but not the expansion for existing US 51 between WIS 138 and County B East. An interchange at this location is no longer being considered and a roundabout is planned. The alternative name for a 4-lane US 51 from County B East to McFarland is now Alternative B.

1 - Costs for utilities are not included, except for Alt B where an estimated \$1.5 million cost for Kegonsa Sanitary District force main relocation is included in the construction cost.

The costs shown for Alternatives C and D include the cost for Alt A.

For total preliminary costs for a 4-lane alternative, add the Stoughton Bypass alternative to Alt B, Alt C or Alt D alternative cost.

2 - Other Area: Includes Multi- and Single Family Residential, Commercial, Industrial, Landfill, Open Space/Vacant, Public, Surface Water, and Transportation.

3 - Farm Building Impact is the number of farms from which one or more farm buildings (non-residential) would be lost. Farm Building Impact is not part of Business or Residential relocation.



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Alternative Schematic		Stoughton Bypass Alternatives									
		Skaalen to Pleasant Hill		East Spring		West Spring		County N		Overland	
Description		County B	County B South	County B	County B South	County B	County B South	County B	County B South	County B	County B South
Project Length											
Length of 4-Lane Improvements	Miles	6.6	6.6	6.0	5.7	5.6	5.4	5.4	5.3	6.3	6.2
Preliminary Cost Estimate Fiscal Year 2011 Basis											
Preliminary Construction Cost ^{1,4}	Millions	\$20 to \$25	\$19 to \$24	\$16 to \$20	\$15 to \$19	\$15 to \$19	\$14 to \$18	\$15 to \$19	\$15 to \$19	\$17 to \$21	\$17 to \$21
Preliminary Real Estate Cost	Millions	\$11	\$7	\$11	\$7	\$11	\$7	\$10	\$8	\$11	\$7
Total Preliminary Cost	Millions	\$31 to \$36	\$26 to \$31	\$27 to \$31	\$22 to \$26	\$26 to \$30	\$21 to \$25	\$25 to \$29	\$23 to 27	\$28 to \$32	\$24 to \$28
Land Converted to R/W											
Agricultural Area	Acres	58	82	52	70	47	66	25	48	79	99
Wetlands Area	Acres	0	1	0	1	1	3	4	5	0	1
Upland Area	Acres	2	2	6	4	1	1	2	2	1	1
Other Area ²	Acres	21	13	21	14	25	18	29	23	18	11
Total Area	Acres	81	98	79	89	74	88	60	78	98	112
Real Estate											
Residential Relocations	Number	9	3	9	3	10	4	5	3	9	3
Business Relocations	Number	2	1	2	1	2	1	2	1	2	1
Farm Building Impact ³	Number	0	0	0	0	0	0	0	0	0	0

NOTES

Each Stoughton Bypass alternative consists of 3 segments. The first is on US 51 from WIS 138 to County B, the second is on County B from US 51 to County N (either on alignment or shifted south), and the third is east of County N (on Skaalen Rd and Pleasant Hill, East or West Spring alignments, County N, or the Overland alignment).

1 - Costs for utilities are not included in the estimated costs above, unless otherwise noted.

2 - Other Area: Includes Multi- and Single Family Residential, Commercial, Industrial, Landfill, Open Space/Vacant, Public, Surface Water, and Transportation.

3 - Farm Building Impact is the number of farms from which one or more farm buildings (non-residential) would be lost. Farm Building Impact is not part of Business or Residential relocation.

4 - Costs include future traffic signals at Lincoln Avenue and Williams Drive.