

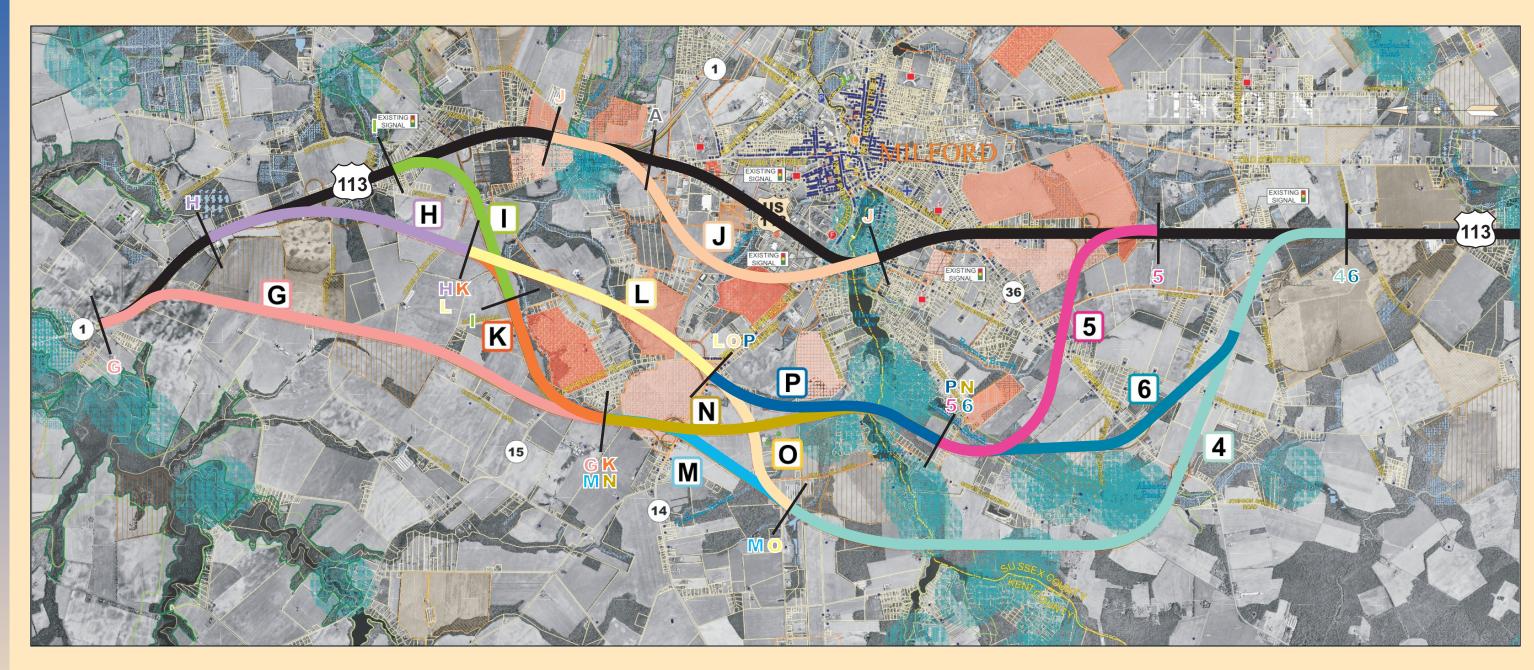
ALTERNATIVES / IMPACTS / WORKING GROUP RECOMMENDATIONS



US 113 North / South Study

May / June 2005

Milford Area - Preliminary West Bypass Alternatives





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Description of Alternatives

- Most western bypass alternatives pass well west of Milford.
- Alternative alignments chosen to minimize natural resource impacts associated with ponds west of Milford.
- All alternatives include an interchange with SR 14.
- Alternatives 4 and 6 also include an interchange with SR 36.
- Alternative J forms a very close-in bypass of the Kent County portion of Milford.
- Public opinions:
 - "Requires too much new road."
 - Greater resource impacts than eastern bypass alternatives.
 - May encourage more development west of Milford.

Length:

- The existing length of US 113 in the study area is 11.2 miles.
- Alternative J is 11.8 miles long, including 3.1 miles of new highway.
- The other western alternatives vary in length from 12.3 to 14.5 miles, including between 8.3 and 11.5 miles of new highway.

Working Group Recommendations

WEST ALTERNATIVES

- There was consensus among the Working Group members to recommend to DelDOT that Alternatives I, J, L, M, O, P, 4, and 5 NOT be retained for further consideration.
- There was consensus among the Working Group members to recommend to DelDOT that Alternatives GN6 and HKN6 be retained for detailed study.

Western Bypass Conclusions

- All western bypasses appear to be effective in reducing traffic on US 113 in Milford.
- All except J have substantial resource impacts compared to the eastern bypasses.
- Of the 51 public comments received on the western bypasses at the last workshop, 38 were negative. Few were directed toward specific alternatives.



ALTERNATIVES / IMPACTS / WORKING GROUP RECOMMENDATIONS

113

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Milford Area - Impact Comparison of Preliminary West Bypass Alternatives Engineering

[I					M. M.											
Considerations	No-Build	G M 4	G N 5	G N 6	HKM4	HKN5	HKN6	HLO4	HLP5	HLP6	IKM4	IKN5	IKN6	I L O 4	I L P 5	ILP6	J
Existing SR 1 length (miles)	4.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1	3.0	3.0	3.0	3.0	3.0	3.0	3.8
				1													
Existing US 113 length (miles)	7.2	1.4	2.8	1.4	1.4	2.8	1.4	1.4	2.8	1.4	1.4	2.8	1.4	1.4	2.8	1.4	4.8
				1													
Proposed US 113 off-alignment length (miles)	0.0	11.5	9.6	10.5	11.1	9.3	10.2	11.1	8.8	9.8	10.1	8.3	9.2	10.0	7.8	8.7	3.1
Total length of alternative (miles)	11.2	12.9	12.4	12.0	13.7	13.2	12.8	13.6	12.7	12.3	14.5	14.1	13.6	14.4	13.5	13.1	11.7
Existing US 113 converted to service roads (miles)	0.0	3.3	3.3	1.3	1.1	0.9	0.7	1.1	0.9	0.7	1.1	0.9	0.7	1.1	0.9	0.7	0.7
Property Impacts																	
Properties affected (numbers of)	0	88	82	75	91	80	73	97	96	91	78	72	66	88	89	83	52
Properties affected (total acres)	0	480	398	441	485	404	447	483	388	431	413	333	375	409	333	357	140
Access Rights																	
Denial of Access (numbers of affected properties)	0	27	39	26	32	44	31	42	55	42	23	35	22	33	46	33	27
Residential		17	31	19	16	30	18	22	37	25	16	30	18	22	37	25	20
Agricultural		5	3	2	8	6	5	9	7	6	3	1	0	4	2	1	0
Commercial		5	5	5	3	3	3	6	6	6	4	4	4	7	7	7	5
Industrial		0	0	0	5	5	5	5	5	5	0	0	0	0	0	0	2
Modified Access (numbers of affected properties)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Residential																	
Agricultural																	
Commercial																	
Industrial																	



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Milford Area - Impact Comparison of Preliminary West Bypass Alternatives Environmental

Considerations	No-Build	G M 4	G N 5	G N 6	H K M 4	H K N 5	HKN6	H L O 4	HLP5	HLP6	IKM4	I K N 5	IKN6	I L O 4	ILP5	ILP6	J
Wetlands and Waters of the US																	
Wetlands (acres)	0	13	8	9	17	12	12	19	16	17	16	11	12	18	15	12	3
Waters of the US (linear feet) ¹	0	2,800	3,100	1,700	3,400	3,800	3,400	4,600	4,600	3,200	3,200	3,600	2,200	4,400	4,400	2,200	3,900
Historic and Archeological Resources					0												
Number of Known Historic Buildings, Structures, Objects, and Districts	0	1	0	0	1	0	0	1	0	0	1	0	0	1	0	0	0
Number of Known Archeological Sites	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Potentially Historic Buildings, Structures, Objects, and Districts - currently being evaluated	0	21	15	17	24	20	18	25	20	22	32	26	28	33	28	30	7
Number of Potentially Significant Archeological Sites - currently being evaluated	0	2	0	1	3	1	2	3	1	2	3	1	2	3	1	2	0
Number of Cemeteries	0	2	1	2	3	2	3	3	2	3	1	0	1	1	0	1	0
Section 4(f) Properties																	
Number of Publicly-Owned Parks and Recreation Areas	0	4	1	1	4	1	1	4	1	1	4	1	1	4	1	1	3
Number of Publicly-Owned Wildlife and Waterfowl Refuges	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Historic Properties - same as number of Known Historic Buildings, Structures, Objects and Districts (above)	0	1	0	0	1	0	0	1	0	0	1	0	0	1	0	0	0
Section 6(f) Properties																	
Properties purchased by Land & Water Conservation Fund (LWCF) (number)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Area (acres)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Rare, Threatened and Endangered Species																	
Potential Rare, Threatened and Endangered Species Areas (acres)	0	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Other Considerations																	
Agricultural Districts (Ten-Year) (number of properties)	0	3	3	5	0	0	2	2	2	2	1	1	3	3	3	5	0
(acres within properties)	0	23	23	23	0	0	10	37	37	37	2	2	2	39	39	39	0
Agricultural Preservation Easements (Permanent) (number of properties)	0	2	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1
(acres within properties)	0	16	13	16	13	13	13	13	13	13	13	13	13	13	13	13	13
Forestland: 2002 Land Use (acres)	0	83	65	72	98	81	88	109	98	105	92	75	82	103	92	52	23
State Forest Lands	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

Note 1: Waters of the US are calculated only for the Sussex County portions of all alternatives.