

ALTERNATIVE RETAINED FOR DETAILED STUDY - BROWN ALTERNATIVE (EAST BYPASS)

113 US 113 North / South Study

DESCRIPTION OF THE BROWN ALTERNATIVE

The Brown Alternative begins at the existing split between SR 1 and US 113. It follows the existing SR 1 bypass of Miford as far south as Wilkins Road, including the addition of one lane in each direction to existing SR 1 in this area. (An interchange is proposed at NE Front Street as part of a separate project.) The alignment then curves to the southwest, with adjacent interchanges with SR 1 and SR 30. Curving to the west, the alignment crosses near the intersection of Elks Lodge Road and Wilkins Road, heading almost due west to the north of Lincoln. It bridges over Marshall Street, the railroad, and South Walnut Street. It then curves to the south along the south side of Herring Branch, tying into US 113 at a full interchange just north of Johnson Road.



NATURAL ENVIRONMENT

Advantages Moderate wetlands impacts

- Relatively low potential Federally listed RTE impacts
- Low State Natural Area and Resource Area impacts
- Removed from area next to Cubbage and Clendaniel Ponds
- No potential affect on wellhead protection areas
- Moderate forest impacts

Disadvantages

- Impacts high quality wetlands Herring Branch Fragments high quality wetland/forest habitat - Herring Branch
- High Waters of the US impacts.
- Potential effect on excellent groundwater recharge area (Herring Branch) and adjacent good/fair recharge area

CULTURAL RESOURCES

- No direct impacts to National Register of Historic Places architectural properties Moderate potential indirect effects on National Register of Historic Places architectural
- properties (approximately 4 properties) Low impact to areas with potential high sensitivity for later historic-period archeological
- resources
- Low impact to areas with potential high and moderate sensitivity for early historic-period archeological resources

Disadvantages

Advantages

- Moderate to high impact to areas with potential high and moderate sensitivity for prehistoric archeological resources
- Impacts a known archeological site

COMMUNITY / ENGINEERING / TRAFFIC

Advantages Favored by Greater Lincoln Community

- Reduced effect on Lincoln community (compared to Green & Purple)
- Low number of affected properties
- · Moderate acres of affected properties
- Takes advantage of existing SR 1 shorter length of construction on new alignment
- Good consistency with Livable Delaware
- Moderate cost alternative
- All existing roads remain open, passing over or under the alternative
- Moderate number of existing communities (8) are within 900 feet of the Brown Alternative (4 are along existing SR 1)

- Central Parke (under construction)	- Woods Haven
- Lincoln Village	- Meadows at Shaw

n Mill	- Knollac Acres II				
n Pond Acres	- Matlinds Estates				

- Lowest number of existing residential properties (20) would be acquired Access modified to a moderate number of residential properties (14), commercial properties
- (6) and farm properties (8)

Disadvantages

- Greater overall length than other alternatives
- Property belonging to the New Hope Baptist Church is within 900' of the centerline • Two school properties lie within 900 feet of the Brown Alternative
- High number of residential properties (502) and farm properties (76) are within 900 feet of the
 - - December: The agencies indicated that even though the options reduced impacts in the Herring Branch area, the impacts of the Brown Alternative remained greater than those of the Green and Purple Alternatives.

- Eliminates impact on Greentop community (compared to Green & Purple)

- Hudso

- n	uuson					- KIIOIIdC ACIES I
- H	udson	Por	nd Ac	res		- Matlinds Estate

- Moderate number of commercial properties (6) would be acquired
- No lots in approved subdivisions would be acquired

- Brown Alternative. Note: 418 residential and 34 farm properties are along existing SR 1

STUDY OF BROWN ALIGNMENT OPTIONS

Discussions with the Agencies

- September field view: The agencies expressed concern regarding impacts to Herring Branch area
- Wetland acreage impacted is somewhat greater than Green and Purple Herring Branch wetlands and adjacent forest, which is of higher quality than the wetland
- area impacted by Green and Purple (un-named tributary to Cedar Creek (all 3) and un-named tributary to Cubbage Pond (G&P); forms one contiguous habitat September/October: DelDOT evaluated options to move Brown out of the Herring Branch area
- Moving Brown south would place it much closer to Lincoln than either Green or Purple (This was not considered viable)
- Moving Brown north would impact Central Parke, a 700+ unit development that is currently under construction
- Implications of impacting Central Parke:
 - Purchase the entire parcel in 2007: about \$30-35 million (including land, improvements, engineering, etc.) ... OR ...
 - Purchase about 100 homes after they are complete and relocate residents: about \$50-60 million, plus compensation for financial impacts related to community facilities DelDOT does not consider either of these approaches or solutions viable
- November/December: DelDOT looked at options to keep Brown in the Herring Branch area, but reduce its impact Narrower cross section
- Removed or relocated ramps

February 2007







RESOURCE & REGULATORY AGENCY COMMENTS

Because the Brown Alternative impacts and divides the higher quality wooded wetland and habitat complex around Herring Branch and the Green and Purple Alternatives directly impact less and lower quality natural resources, the Brown Alternative is considered a more environmentally damaging

ental resource and regulatory agencies consider the Green and Purple Alternatives preferable to the Brown Alternative.

The Brown Alternative is generally more likely to affect areas with a higher probability to contain prehistoric archeological sites than the Green and Purple Alternatives.

PUBLIC COMMENTS TO DATE

 Working Group favors the East Bypass Alternatives and requested the Brown Alternative be evaluated Greater Lincoln Community favors the Brown Alternative and opposes the Green and Purple Alternat

Comparison of Retained Alternatives

	NetBalld	Yelew	Orange		Green	Parple	
intania and Malany shiha US							
(httph/arm)			1.5	12.6		1.6	4.1
Males of the 21 Strate had		649	1.528	1242		346	1.040
Samber of States's Properties within Darks Jona Samber of Properties Potentially Tablest in Testion 47							
nimitiga lanna							
Number of Nones Andreastration and Data in the Limit of Delastrations							
High Tarativity Area (area (%)			14, (2, 2%)		43.152	1,7,2%	1,0250
		46.00.00	79(9.4%)	\$8,70.7%	2216.050 34.9.752 352.95752	22(6.95)	
		14/04/202	144(212%)	Di Di Politici		41(3235)	66 (17.4%)
			1,0.00		8,0150	6(1.8%)	6.0.7%
Medicada Tarcollette Area (areas / %) Las Tarcollette Jana (areas / %)							
			0.(0.0%) 600.062%)	10.00	0.00%) 30.66.0%	2(035) 38/8435	
Eight Enneiteity Inna (anna / 52		341 (iC 24)					30(00.35)
Later Habris Period Renalizity in the Limit of Deluchance		-					
Extent Londons			14	*			
High Sanathily Locations Undersite Senathily Constern		10	6	44	20	33	-
Moderate Taracticity Constients		8				1	4
Los Invitely Lossien							
Senior of Datala Operat Data and Recordson Josep. Senior of Datalas Operat Widths and Exteriord Selium.							
Peperins punhased by Oxfasses Trust Fund (CTP) (number)							
iniha							
			33	ж			
Par Canaldanafara							
Apricultural Chabriels (Tan Yaar) (number of properties)		÷	÷	2		1	
(area alltin poperies)							
Aproduce Presentation Externance, Premanenti, Journier of properties; (array attrict memories)				2		4	
(array athin properties) Forestand 2002 Land Unit jamm)	÷	0	0 2	0 39	21	33	46
Parentland 2002 Cand Una jamen)		0	79	29		<u>u</u>	
Baile Pennel Lamba Nateri Vinnania							
		141		774		1.44	
Properties affected Justices all		10	201	214	114	18	419
nera faita							
Factorial and include register engineers and into						68 (32.16)	
Aproduced							
Cennenial Ohan							
And that Annual Justians of Affected properties.							
Texterial							
IgitArd							
Connecial							
	No.	VERY NOOR	74.8	RCA	0000	0000	
Source (SUSSE) and Arter	12.2						
	03 11 03	03 11 03	0.4 0.4	44 73 0.4	44 543	0.0 2.4 14.5	40