

**ALTERNATIVES EVALUATION MATRIX – IL 100/106 OVER THE ILLINOIS RIVER**

**August 27, 2019**

Resource or Engineering Feature	Measure	4A	4C	4C/D	5B	Notes
		100 feet north	100 feet south	300 feet south	4,500 feet south	
New Right-of-Way <sup>A</sup>	Acres	36.3	32.9	63.5	90.1	Includes land outside the anticipated construction limits which has been identified as preservation area and/or uneconomic remnant: Alt 4A - 9.0 acres Alt 4C/D - 14.9 acres
Estimate of Probable Construction Cost	Current (Millions of Dollars) \$ M	\$70.7M	\$77.6M	\$75.5M	\$72.1M	
Adverse Travel (Florence)	User Delay Cost (\$/yr.)	\$7K	\$10.5K	\$8.8K	\$59.7K	
Constructability <sup>B</sup>	Subjective (described)	1	2	2	4	
Wetlands <sup>C</sup>	Acres	26.6	17.0	27.8	16.8	Wetland impacts include acreage within new construction, bridge removal, and/or uneconomic remnants
Wet Floodplain Forest	Acres	9.8	10.4	20.6	9.8	
Wet Forbland	Acres	4.7	4.7	4.7	4.7	
Wet Meadow	Acres	11.5	1.9	2.3	2.1	
Wetland Pond	Acres	0.6	0.0	0.2	0.2	
Water Feature Crossed <sup>D</sup>	Each	2	4	5	5	
River Crossing (Illinois)	Each	1	1	1	1	
Lake Crossing (Ferry)	Each	0	1	1	0	
Tributary Crossing	Each	1	1	2	4	
Other	Each	0	1	1	0	
Floodplain <sup>E</sup>	Acres	32.0	29.7	47.2	55.5	Floodplain impacts include acreage within new construction, bridge removal, and/or uneconomic remnants
Floodplain	Miles	0.97	0.97	1.02	1.75	
Forest Land <sup>F</sup>	Acres	19.7	32.9	51.1	32.3	Forest impacts include acreage within new construction, bridge removal, preservation area, and/or uneconomic remnants
Prime Farmland Acquired <sup>G</sup>	Acres	14.0	7.3	22.4	59.0	
Inventoried Natural Areas <sup>H</sup>	Acres	4.0	3.9	5.8	2.6	INAI impacts include acreage within new construction, bridge removal, and/or uneconomic remnants
Regionally Noteworthy Botanical Resource Area <sup>I</sup>	Acres	0.2	1.9	2.7	0.0	RNBS impacts include acreage within new construction and/or uneconomic remnants
<b>Threatened &amp; Endangered Species Presence</b>						
Decurrent False Aster <sup>J</sup>	Present - Acres	1.78	1.87	2.59	1.51	Decurrent False Aster impacts include acreage within new construction, bridge removal, and/or uneconomic remnants
Cultural Resource Database Review (Section 106/ Section 4(f))	# of Known Eligible Sites	4	3	2	10	
Sensitive Archaeological Sites		Likely Impacted	Impacted	Avoided	Likely Impacted	Alternative 4C unavoidably encroaches on a sensitive site
Displacements (Residential) <sup>K</sup>	Each	0	0	0	6	
Displacements (Commercial)	Each	1	0	0	0	
Parcels with Right-of-Way Impacts	Each	7	9	11	31	

- A. The term “uneconomic remnant” means a property in which the owner is left with an interest after the partial acquisition of the owner’s property, and which IDOT has determined has little or no value or utility to the owner.
- B. “Constructability” refers to difficulty of construction, subjectively rated, with 1 being the most difficult and 4 being the least difficult.
- C. Wetlands evaluated by field verified delineations (Illinois Natural Heritage Survey (INHS), July and August, 2017). Wetland totals may not sum due to rounding.
- D. Water Features Crossed distinguishes the Illinois River, Ferry Lake, tributary crossings, and the unnamed body of water east of Ferry Lake.
- E. Floodplains evaluated by the 2016 files maintained by the Federal Emergency Management Agency (FEMA).
- F. Forest Land evaluated by aerial photographs.
- G. Prime Farmland evaluated by available data from previous studies.
- H. Inventoried Natural Areas are from the Illinois Heritage Database (IHD, 2016).
- I. Regionally Noteworthy Botanical Resource Area report area assessed by the INHS (September 2018). No state or federal listed threatened or endangered species were found.
- J. Decurrent False Aster reports area of plant habitat assessed by the INHS as surveyed (June 2017).
- K. Displacements are based on available photographs and parcel boundaries from Pike and Scott counties (2016).