US 136 HAMILTON VERTICAL REALIGNMENT - EVALUATION OF ALTERNATIVES

EVALUATION CRITERIA	Alt. 1	Alt. 2	Alt. 3	Alt. 4	Alt. 5	Alt. 6*	Alt. 7A**	Alt. 7B**	Alt. 7C	Alt. 8**	Alt. 9*	Alt. 9B	Alt. 10
							CAG 2 preferred	CAG 2 preferred	new after CAG 2		CAG 2 preferred	new after CAG 2	
	Existing Alignment						**Horizontal Realignment**						
	No Build	Temp US 136 Detour Pavement	Temp Bypass Railway	Remove Miss River RR Bridge	Reroute RR During Const	Channel Realign & Perm. Realign RR	At-grade Cross @Warsaw Road/ Railroad	At-grade Cross @Warsaw Road And Railroad	7A and 7B modified to Avoid Asphalt Plant	Bridge over Warsaw Road	Channel Realign & Perm Bypass RR (South)		Perm Bypass RR (North)
ESTIMATED CONST. COST	$0	$21,910,000	$18,500,000	$17,560,000	$18,160,000	$18,660,000	$10,960,000	$13,560,000	$14,210,000	$27,680,000	$18,700,000	$18,440,000	$18,300,000
ESTIMATED LAND ACQ. COST	$0	$130,000	$60,000	$220,000	$60,000	$140,000	$760,000	$750,000	$240,000	$860,000	$410,000	$150,000	$90,000
TOTAL ESTIMATED COST	$0	$22,040,000	$18,560,000	$17,780,000	$18,220,000	$18,800,000	$11,720,000	$14,310,000	$14,450,000	$28,540,000	$19,110,000	$18,590,000	$18,390,000
ESTIMATED COST RANKING		**9**	**8**	**7**	**6**	**3**	**1**	**2**		**10**	**4**		**5**
US 136 TRAFFIC IMPACTS	NONE	MEDIUM	MEDIUM	MEDIUM	MEDIUM	MEDIUM	LOW	LOW		LOW	LOW		LOW
WARSAW ROAD TRAFFIC IMPACTS	NONE	TEMP CLOSURE (2 MONTHS)	TEMP CLOSURE (3 MONTHS)	TEMP CLOSURE (3 MONTHS)	TEMP CLOSURE (3 MONTHS)	TEMP CLOSURE (2 WEEKS)	TEMP CLOSURE (3 WEEKS)	TEMP CLOSURE (1 MONTH)		TEMP CLOSURE (1 MONTH)	TEMP CLOSURE (2 WEEKS)		TEMP CLOSURE (2 WEEKS)
RAILROAD TRAFFIC IMPACTS	NONE	TEMP CLOSURE (2 MONTHS)	2 WK CLOSURE	VERY HIGH (PERM. CLOSURE)	TEMP REROUTE (CLOSED FOR 3 1/2 MO.)	2 WK CLOSURE	LOW	TEMP REROUTE (CLOSED FOR 1 MO.)		VERY LOW	2 WK CLOSURE		2 WK CLOSURE
WARSAW BRIDGE REPLACEMENT	NO	YES - BRIDGE	YES - BRIDGE	YES - BRIDGE	YES - BRIDGE	YES - CULVERT	NO - REMOVED	NO - REMOVED		YES - BRIDGE	YES - CULVERT		YES - BRIDGE
LAND ACQUISITION IMPACTS	NONE	MEDIUM	LOW	LOW	LOW	MEDIUM	HIGH	HIGH		HIGH	HIGH		LOW
SUSCEPTIBLE TO FLOODING	YES	NO	NO	NO	NO	NO	NO	NO		NO	NO		NO
CONSTRUCTION DURATION		S-1 DETOUR = 2 MONTHS S-2 US 136 = 3 MONTHS (INCL. US 136 BR. & RR) S-3 WARSAW RD. = 2 MO. S-4 = FINAL SURFACE & MISC. = 1 MONTH **TOTAL= 8 MONTHS**	S-1 SHOOFLY CROSSING ON US 136 EB LANES = 5 DAYS S-2 = 3 MONTHS S-3 = 2 WEEKS S-4 = 3 MONTHS S-5 = 2 WEEKS **TOTAL= 7 MONTHS**	S-1 = 3 MONTHS S-2 = 3 MONTHS S-3 = 1 WEEK **TOTAL= 6 1/2 MONTHS**	S-1 = 3 MONTHS S-2 = 3 MONTHS S-3 = 1 WEEK **TOTAL= 6 1/2 MONTHS**	S-1a = 2 MONTHS S-1b = 2 MONTHS S-1c = 0 MONTHS (CAN BE COMPL. DURING S-1a & S-1b) S-2 = 1 MONTH S-3a (RR X-INGS) = 2 WEEKS S-3 b (WARSAW RD.)= 2 WEEKS S-4 = 1 MONTH S-5 = 2 WEEKS **TOTAL= 7 1/2 MONTHS**	**S-1 THRU S-3 = 6 MONTHS**	**S-1 THRU S-3 = 6 MONTHS**		**S-1 & S-2 = 7 MONTHS**	**S-1 THRU S-4 = 6 MONTHS**		**S-1 THRU S-4 = 6 MONTHS**
	NOTE: COST OF RELOCATING ASPHALT PLANT NOT INCLUDED.	**NOTE:** 3 MONTH DTR. ON US 136; 2 MONTH CLOSURE ON RR; AND 2 MONTH CLOSURE ON WARSAW RD.	**NOTE:** RR CLOSED FOR 2 WEEKS IN S-3. WARSAW RD. CLOSED FOR 3 MONTHS DURING S-3 & S-4.	**NOTE:** RR CLOSED/ DEAD ENDED PERMANENTLY. WARSAW RD. CLOSED FOR 3 MONTHS.	**NOTE:** RR CLOSED FOR 3 1/2 MONTHS (DURING S-1 & PART OF S-2).	**NOTE:** RR CLOSED FOR 2 WEEKS IN S-3 & WARSAW RD.. POSSIBLY CLOSED FOR 2 WEEKS.	**NOTE:** WARSAW RD. CLOSED FOR 3 WEEKS FOR GRADE X-ING & SIGNALS.	**NOTE:** WARSAW RD. CLOSED FOR 1 MONTH IN S-2 & RR CLOSED FOR 1 MONTH.		**NOTE:** WARSAW RD. CLOSED FOR 1 MONTH IN S-2	**NOTE:** WARSAW RD. CLOSED FOR 2 WEEKS		**NOTE:** WARSAW RD. CLOSED FOR 2 WEEKS

* NOT SURE IF ARMY CORPS OF ENGINEERS WILL ALLOW CHANNEL CHANGE (SHORTER CHANNEL)

** LAND ACQUISITION COST INCLUDES ASPHALT PLANT RELOCATION