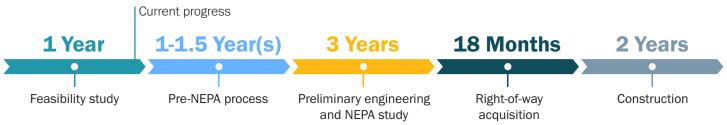




PROJECT INFO

The City of Decatur recognizes the need to provide infrastructure improvements that enhance connectivity to its traveling public on each side of the Tennessee River. This improved infrastructure is critical to support the increasing growth in and around the city. The City of Decatur received a \$1 million grant from the Appalachian Regional Commission (ARC) and is providing \$1 million in local matching funds for the feasibility study.

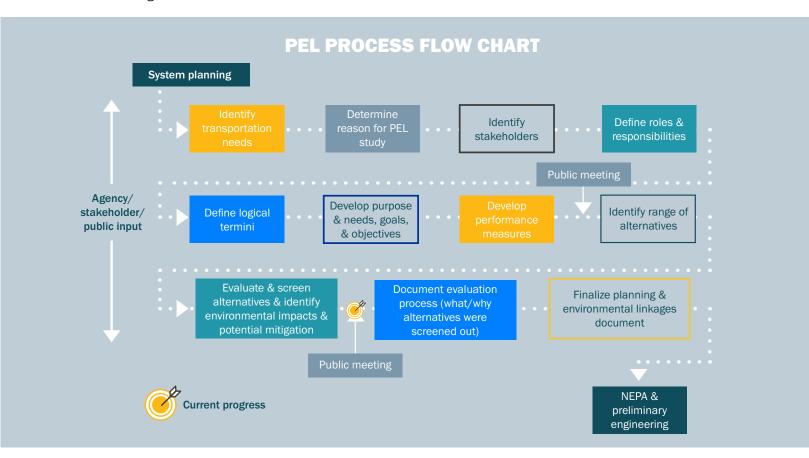
PROJECT SCHEDULE



^{*}Typical timeline for a federally funded project

PROJECT FUNDING

The City of Decatur is using a combination of local funds and federal grant funds to conduct the Tennessee River Bridge Feasibility Study. The Feasibility Study is the only phase that is currently funded. The City of Decatur and its consulting team are exploring all options for funding future phases of the project and anticipates the financing for the future planning, design, and construction of the project to include federal funding. Grant funding is extremely competitive on projects of this magnitude and will require support and partnership from the local community, the state, and the federal government.





PURPOSE & NEED

The "Steamboat Bill" Memorial Bridges span one of the widest points along the Tennessee River between Morgan and Limestone Counties in the City of Decatur. The bridges are located along ALT US 72/SR 20/US Hwy 31, which is classified as a principal arterial and is part of one route providing a direct linkage between the Decatur Metropolitan Statistical Area (MSA) and Huntsville MSA. These two MSAs comprise the Decatur-Huntsville Consolidated Metropolitan Statistical Area (CMSA), which is the fastest growing CMSA in the State of Alabama. The growth experienced by the area has resulted in significant increases in traffic volumes along the ALT US 72/SR 20/US Hwy 31 route.

The existing ALT US 72/SR 20/US Hwy 31 southbound cantilever truss bridge, constructed in 1963, is functionally obsolete. As the only Tennessee River crossing connecting Decatur to Huntsville, the route has experienced increased congestion which has been attributed to growth and increased traffic volumes across the region.

During peak morning travel times, congestion on southbound ALT US 72/SR 20/US Hwy 31 (towards Decatur) is typically experienced half-way across the Tennessee River bridge. Congestion on southbound Wilson Street (approaching ALT US 72/SR 20/US Hwy 31) is known to back up approximately 1-mile north towards Ingalls Harbor.

During peak evening travel times, congestion on southbound ALT US 72/SR 20 is experienced as far back as the I-65 interchange, a distance of approximately 4.5 miles. Congestion on the southbound portion of Wilson Street (approaching ALT US 72/SR 20/US Hwy 31) backs up approximately 1-mile north towards Ingalls Harbor.

Purpose		Need				
Relieve congestion conditions	Relieve congested conditions along ALT US 72/SR 20 in the areas adjacent to the current ALT US 72/SR 20/US Hwy 31 bridges over the Tennessee River through means of improving the existing structure or provision of an additional crossing. Based on preliminary, highlevel evaluation of existing and projected traffic data, a significant volume of traffic would need to be removed from or accommodated within the existing corridor.	Capacity	Per the Decatur Area Metropolitan Planning Organization's 2045 Long-Range Transportation Plan (May 2021), the segment of ALT US 72/SR 20 from the US Hwy 31 interchange to Wilson Street intersection operated at Level of Service (LOS) E in 2015 and projects LOS F operations by 2045.			
Increase corridor capacity	Accommodate the projected traffic volumes crossing the Tennessee River.	Alternative connection	Currently, this route serves as the only direct crossing over the Tennessee River into the downtown and the northwest side of Decatur from the Huntsville MSA.			
Maintain regional connectivity	Maintain regional connectivity between the Decatur MSA and the Huntsville MSA.	Bicycle/ pedestrian access	There is currently no dedicated multi- use path across the Tennessee River. Accommodating a multi-modal lane for bicyclists and pedestrians will meet the "Complete Streets" goals established in the One Decatur Plan as well as the 2015 Bicycle & Pedestrian Plan established for the City of Decatur.			
Provide dedicated bicycle & pedestrian access	Provide dedicated bicycle and pedestrian access over the Tennessee River.		The southbound bridge across the Tennessee River along ALT US 72/SR 20/Hwy 31 has narrow 4-foot shoulders which do not allow inoperable vehicles to be removed from the travel lane. Additionally, these narrow shoulders can exacerbate emergency situations when vehicles are unable to move out of the way of first responders.			
Address route deficiencies	Address route deficiencies associated with the aging ALT US 72/SR 20/US Hwy 31 southbound bridge as the primary crossing over the Tennessee River to provide a reliable conveyance.	Route deficiencies				



ALIGNMENT SELECTION PROCESS

At the public meeting held May 2, 2023, the project team presented the proposed purpose and need and project goals. Here the public was able to provide suggestions for potential solutions, including drawing alternative alignments for the project. Following the public meeting and comment period, the project team digitized and reviewed the provided alignments as well as developed our own. Alignments with similar corridors and termini were combined into a single alternative to limit redundancy.

The combined alignments, the project team's alignments, as well as alignments developed from previous studies were then evaluated for fatal flaws such as significant land use impacts (i.e., Section 4(f) properties, Section 6(f) properties, critical habitat for protected species, major industrial/residential/commercial areas, Pryor Field, etc.), significant impacts to river navigation, significant constructability concerns (i.e., subterranean tunnel), and for meeting the project's purpose and need. Alignments with significant problematic or unmitigatable impacts or those which did not meet the purpose and need were eliminated from further consideration.

Alignments which were not eliminated, were carried into a design charrette where they were further refined to avoid and minimize significant impacts where feasible. The refined alignments/alternatives, were then evaluated against a common set of criteria as shown on the provided feasibility matrix. These alignments are attached.

The existing corridor is anticipated to remain in all scenarios. The design team looked at the existing corridor as it is today and with several versions of improvements. These are included in the feasibility matrix as alignments A, B, C and D.



Next Steps



Complete the Feasibility Study

Pre-NEPA Phase

- Field Surveys
- Detailed Traffic Analysis
- Further Refinement of Alignments

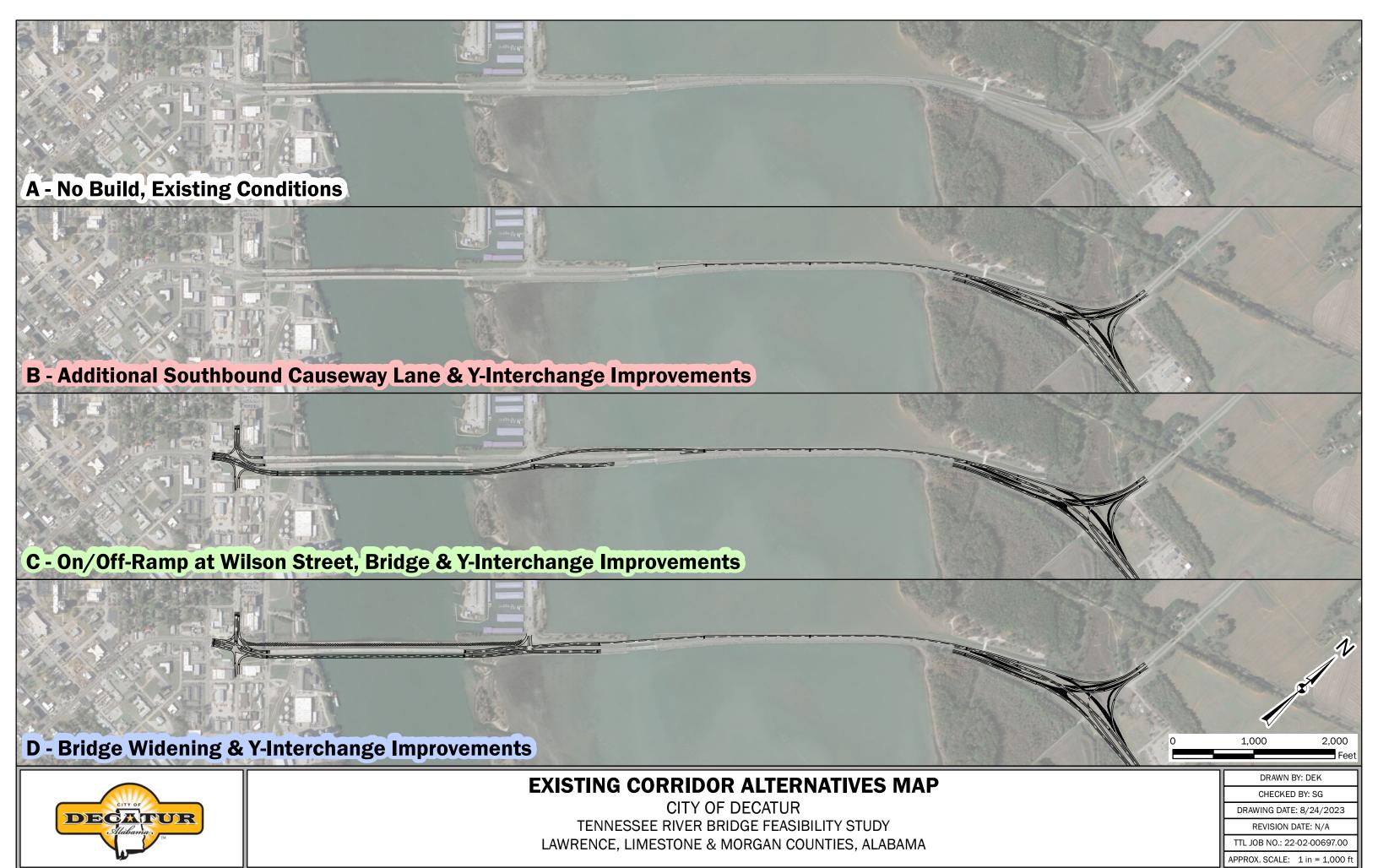
We want to hear from you!

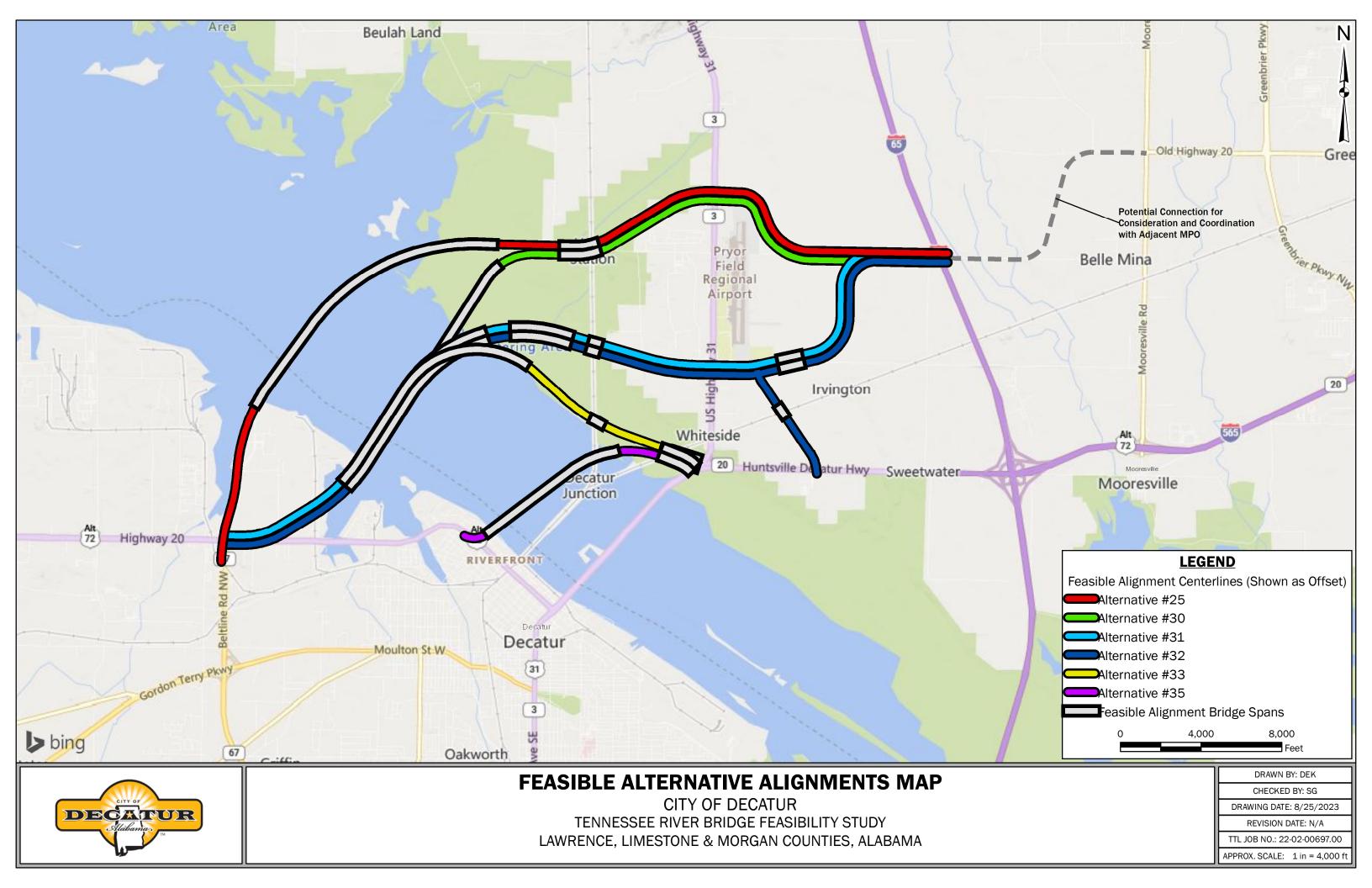
Comments/Inquiries can be submitted to: TTL, Inc.

Decatur Bridge Comments 3516 Greensboro Avenue Tuscaloosa, AL 35401

Project email:

decaturbridge.comments@ttlusa.com





						LEG	END						
TENNESSEE RIV	VER BRIDGE FEASIBILITY	Severe	Moderate	Low					Good	Better	Best		
	STUDY		Impact			No I	mpact			Improvement			
	ISION MATRIX						MENTS			•			
DECISION MAIRIX		A	В	С	D	25	30	31	32	33	35		
	% Traffic Off Existing Bridge		_)%		17%	12%		22%	21%	35%		
		Significant southbound	d backup on the two-lane	Southbound and North	hbound function under		•				Functions under		
V	Volume on Bridge and Causeway		sections capacity			Reduce	s volume		Reduces volume		capacity		
Traffic Impacts	Volume at Y interchange	All directions near failure in the design year Southbound Hwy 31 to Eastbound Hwy 20 is Signficantly Overcapacity	North and west legs of the interchange funtion acceptably ad Hwy 31 to d Hwy 20 is East leg nears failure in the design year ficantly				Reduces volume			Reduces volume			
V	Volume at Wilson/Church Street	143% Overcapacit	ity with long queues	113% Overcapacity with long queues	143% Overcapacity with long queues	Reduces volume but still overcapacity Reduces volume but still			duces volume but still overc	apacity	Functions under capacity		
	Reduces Volume on SR20	No effect				Reduce volu	me on Hwy 20	Reduce vo	lume on Hwy 20	No effect			
	between I65 and U.S. 31												
<u> </u>	Length of Roadway (mi)			3.3		10.9	10.6	10.5	10.5 / 8.8	8.3	7.6		
Geometric —	Interchanges (ea)			<u>2</u> 5		2	1	3	4	2	2		
Design	Signalized Intersections (ea)			5 17		2	4	-	•		<u> </u>		
-	Minor Intersections (ea)			<u> </u>		3	4	6	6/3	1	5		
	Railroad Crossings (ea)			4		1 2 2/3 3 4							
	Length of Existing Southbound Truss Bridge (linear ft.)		2,500		0	2,500							
<u> </u>	Length of Existing Northbound												
	Bridge (linear ft.)	2,970				2,970							
	Length of Proposed Northbound												
	Bridge on Existing Corridor over TN River	0	0	3,500	3,000	0							
	(linear ft.)												
	Length of Proposed Bridge on Alternative Corridor over TN River			0		4.4.740	42.000		10.050	44.000	7.000		
Bridges	(linear ft.)			U		14,740	13,000	10,050		11,800	7,600		
	Length of Additional Roadway Bridges (linear ft.)			0		1,0	600		2,900	875	500		
	New Bridge Area to	_		040.000	400 500	4.000.000	4.000.000	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		20,020	770.000		
	Maintain and Inspect (SFT)	0	0	319,600	163,500	1,380,300	1,229,800	1,114,130	1,13	39,930	778,300		
	Hydraulic Impacts	No Impact	No Impact	Match bottom bear	m of existing bridge	2000 LF of fill in floodplain	2500 LF of fill in floodplain	2800 LF o	f fill in floodplain	8700 LF of fill in floodplain	2500 LF of fill in floodplain		
	Long-Term Maintenance	Truss bridge is functionally obselete and replacement is recommended. Maintaining existing truss bridge is estimated to be costly. Aged Structure and Truss Bridge Maintenance Maintenance				Regular Bridge Maintenance							
	Residential Impacts	0 3/±1 ac 0 1/±1 ac							/ ±5 ac				
Right of Way —	Commercial Impacts						0	3 / ±7 ac	4 / ±15 ac	0	3 / ±19 ac		
Impacts	Industrial Impacts					3 / ±33 ac	2 / ±28 ac	1 / ±24ac			1 / ±2 ac		
	Agricultural Impacts		0				:36 ac	6 / ±50 ac	8 / ±64 ac		0		
	Utility Impacts			9		12	7	11	9	5	9		
		Α	В	С	D	25	30	31	32	33	35		

						LEG	GEND					
TENNESSEE RIVER BRIDGE FEASIBILITY Severe STUDY		Severe	Moderate	Low					Good	Better	Best	
			Impact	Impact No Impact						Improvement		
DE	CISION MATRIX					ALIGNMENTS						
		Α	В	С	D	25	30	31	32	33	35	
Impacts During Construction	Mainline	None	Moderate impacts at Y- interchange and causeway	major impacts and	delays on causeway							
	Grade Crossings			moderate impacts and delays at Wilson St and Church St		minor impacts and delays						
	River Traffic		None	major impacts and delays for new bridge construction				major impacts and delay	ys for new bridge construction	on		
	City Roads			moderate impacts and Chur	ch St	minor impacts and delays						
	Hazardous Materials		58 :	sites	55 sites	29 sites	36 sites	39 sites	40 sites	36 sites	30 sites	
Environmental Impacts	Wildlife & Aquatic Resources		intersects mussel intersects mussel habitat and whooping crane habitat habitat crane habitat, existing bridge bat habitat		crosses southern extent of critical habitat for pygmy sunfish, bat habitat, mussel habitat, whooping crane habitat			ersects bat habitat, mussel	sects bat habitat, mussel habitat, whooping crane habitat			
	Wetlands & Waters within Corridor	or	Streams: 2 crossings, ±2,000 ft; Wetland: ±6 ac TN River: ±4,000 ft	0 ft; Wetland: ±8 ac : ±6 ac TN River: +8 200 ft		Streams: 5 crossings, ±1,700 ft; Wetland: ±55 ac TN River: ±11,200 ft	Streams: 6 crossings, ±2,100 ft; Wetland: ±61 ac TN River: ±9,000 ft	Streams: 2 crossings, ±300 ft; Wetland: ±47 ac TN River: ±9,200 ft		Streams: 3 crossings, ±3,200 ft; Wetland: ±68 ac TN River: ±11,700 ft	Streams: 2 crossings, ±3,100 ft; Wetland: ±31 ac TN River: ±7,200 ft	
	Noise		along existing corridor, no significant change			intersects Swan Creek WMA (±94 ac)	intersects Swan Creek WMA (±81 ac)	intersects Swan Creek WMA (±52 ac)		intersects Hospitality Park & Swan Creek WMA (±70 ac), adjacent to Wheeler NWR	intersects Hospitality Park & Swan Creek WMA (±38 ac), adjacent to Wheeler NWR	
*Evaluations and	Air Quality			No Impact Anticipated		No Impact Anticipated						
estimates have been determined via review of	Historic/Archaeological Resources	N/A	Steamboat Bill Memoria	al Bridges likely eligible historic resource, potential archaeological sites		Garrett residence potential eligible historic resource, potential archaeological sites	·	otential eligible historic resource, Mosley Cemetery at ern termini, potential archaeological sites		Mosley Cemetery at southern termini, potential archaeological sites	historic downtown with several historic structures nearby Port of Decatur at southern termini, potential archaeological sites	
	Section 4(f) and Section 6(f) Resources *no alignments impact Section 6(f) resources		intersects Hospitality Park, adjacent to Wheeler National Wildlife Refuge	intersects Hospitality Park, intersect Wheeler National Wildlife Refuge near existing bridge/marina		intersects Swan Creek Wildlife Management Area (±94 ac)	intersects Swan Creek Wildlife Management Area (±81 ac)	intersects Swan Creek Wildlife Management Area (±52 ac)		intersects Hospitality Park & Swan Creek Wildlife Management Area (±70 ac), adjacent to Wheeler National Wildlife Refuge	intersects Hospitality Park & Swan Creek Wildlife Management Area (±38 ac), adjacent to Wheeler National Wildlife Refuge	
	Land Use		along existing corridor, no significant change		nt change	southern termini is in industrial area, most of corridor is undeveloped						
	Floodway		crosses 0.0 ac	crosses 3.9 ac		crosses 9.7 ac	crosses 5.4 ac		crosses 5.4 ac		crosses 3.2 ac	
	Floodplain	crosses 20.6 ac		crosses 37.5 ac crosses 39.1 ac						crosses 63.5 ac		
0+ 5	Environmental Justice		***	No Impact Anticipated			No Impact Anticipated					
Cost Data		N/A	\$20	\$60	\$45	\$\$\$\$	\$\$\$	\$\$\$	\$\$\$	\$\$	\$	
		A	В	С	D	25	30	31	32	33	35	
						ALIGN	IMENTS					