

# DRAFT EVALUATION CRITERIA

PRELIMINARY  
SUBJECT TO  
REVISIONS

	EVALUATION CRITERIA	OBJECTIVE	MEASURE
MOBILITY	Traffic Level of Service (LOS) at Existing FM 1810 and US 287 Intersection	Minimize Delay at the existing signalized intersection	Quantitative assessment of existing FM 1810 / US 287 intersection LOS at the existing signalized intersection location
	Traffic Level of Service (LOS) New Alternative Connection Alignment by Direction	Minimize approach/intersection delay at the proposed intersection of a new FM 1810 connection to either US 287 or US 380	Quantitative assessment of the approach and intersection delays for each alternative for the year 2035
	Traffic Level of Service (US 81/US 287 Between FM 1810 and US 380 - Northbound and Southbound)	Improve travel speeds through improvements to geometry to reduce the impacts of conflicting traffic movements	Quantitative assessment of the LOS and travel speeds for each alternative for the year 2035
	Total Delay/Vehicle	Minimize the amount of travel delay/vehicle	Quantitative assessment of the average delay for each vehicle (in minutes and seconds) within the proposed roadway network of each alternative
	Total Travel Time (Hours)	Minimize the amount of total travel time for trips within the proposed roadway network	Quantitative assessment of the total travel time (in hours and minutes) within the proposed roadway network of each alternative
ACCESS	Property Access	Minimize number of blockages to existing and proposed property access	Quantitative assessment of blocked driveway locations
	Network Integration	Maintain compatibility with existing roadway network and improve compatibility with proposed roadway network	Qualitative assessment of how well alternative connects to the existing and proposed roadway network
	New Street Crossings	Minimize number of net additional crossings	Alternatives with lower number of net additional crossings will be rated higher than alternatives with a higher number of net additional crossings
SAFETY	Design Standards	Ensure a safe design for all users	Compliance with design standards including intersection approach geometry
	Conforms to Design Speed Criteria	Meet TxDOT design criteria	Quantitative assessment of geometric measures and corresponding design speed including (minimum horizontal radius, any super-elevation, stopping sight distance, profile grades, vertical curve design control)
	Lane Width, Cross-Slope, Pedestrian & Sidewalk Elements, Horizontal Clearance	Meet TxDOT design criteria	Quantitative assessment of cross sectional elements including pavement cross slope, medians, lane and shoulder width, sidewalks and pedestrian elements, roadside design and horizontal clearance to obstructions
	FM 1810 Turning Movements	Reduce amount of conflicting turning movements for traffic between FM 1810 and US 287	Alternatives which reduce the level of conflicting traffic movements through provision of grade separated interchanges, and traffic signal with protected phasing
PROPERTY IMPACTS (Developed Property)	Right of Way Area Needed (Acres)	Minimize required Right of Way acquisition	Identify area of additional Right of Way impacted
	Number of Parcels Impacted	Minimize number of parcels impacted	Identify and evaluate the number of parcels impacted
	Buildings Displaced	Minimize number of buildings displaced	Identify and evaluate the number of buildings displaced
PROJECT COST AND EFFICIENCY	Construction Cost	Minimize Construction Cost	Evaluate construction cost of each alternative section
	Alignment Length	Minimize the length of each alternative	Identify the length of each alternative in miles
	Right of Way Cost	Minimize Right of Way acquisition Cost	Assessment of Right of Way costs based on degree of Right of Way area impacted
CONSTRUCTION IMPACTS	Construction Difficulty or Disruption	Minimize impacts to FM 1810, US 81/US 287 and adjacent properties during construction	Identify the number of driveways and cross-streets impacted in addition to qualitative assessment of impacts to existing roadways due to construction complexity and phasing
	Driveways Impacted (Beyond Existing ROW)	Minimize number of driveways impacted	Identify number of driveways impacted
	Cross-Streets Impacted (Beyond Existing ROW)	Minimize number of cross-street impacts	Identify number of cross-streets impacted
	Impacts to Existing Drainage Structures	Minimize number of impacts to existing drainage structures	Qualitative assessment of impacts to existing drainage structures resulting from location of structures and alignment
	Impacts to Major Utilities	Minimize disruption to existing major utilities, pump stations, etc.	Qualitative assessment of impacts to existing linear utilities, major utility crossings and facilities resulting from location of structures and alignment
	Compatibility with Thoroughfare Plans	Accommodate local and regional thoroughfare plans	Evaluation of the compatibility with thoroughfare plans and planned developments
COMPATIBILITY WITH OTHER PROJECTS	Compatibility with Other Projects	Compatible with other regional and local transportation projects	Evaluation of the compatibility with other projects and roadways
	Design Flexibility (Allows for Future Expansion)	Accommodation of staged construction and future facility expansion within the proposed Right of Way	Qualitative assessment of an alternatives ability to be constructed in stages within the alternatives ultimate footprint.
	Consistency with Existing/Planned Development	Accommodate existing and planned developments with minimum impacts	Qualitative indication that each alternative is consistent with major approved plans for transportation, park development, land use, zoning, etc. and existing/planned development and/or redevelopment along the alternative
SOCIO-ECONOMIC AND ENVIRONMENTAL IMPACTS	Economic Development/Impact to Existing Businesses	Minimize negative impacts on existing businesses, and planned developments	Qualitative assessment based on public input.
	Commercial/Industrial Land Use Impacts	Minimize negative impacts on existing commercial/industrial properties	Preliminary analysis to identify the potential number of acres of retail, commercial, and industrial land uses that could be affected
	Residential Impacts	Minimize negative impacts on residential properties and neighborhoods	Preliminary analysis using existing land use as identified on 2011 aerial photography and Wise County Appraisal District data to identify the potential acres of residential land use that could be affected
	Socioeconomic Impacts	Minimize adverse impacts to Limited English Proficiency (LEP) populations	Qualitative assessment based on available census data
NATURAL RESOURCE IMPACTS	100-Year Floodplain	Minimize adverse effects to natural resources	Qualitative assessment based upon identification of threatened and endangered species habitat, riparian areas, and floodplain impacts
	Impacts to Parks and Recreation Areas	Minimize impacts to designated properties including parks and recreation areas	Identify parks which may be impacted by the alternatives.
	Impacts to Potential Waters of the U.S., Including Wetlands	Minimize impacts to potential waters of the U.S., including wetlands	Exploratory-level analysis to identify the number of crossings of potential waters of the U.S. including wetlands that would be affected
	Impacts to Biological Resources	Minimize impacts to wooded and grassland areas that are potential habitats	Qualitative assessment of measured wooded and grassland areas that are potential habitat within the 200 ft. wide corridor
	Impacts to Farmland	Minimize impacts to prime farmland soils within the affected area of the proposed improvements	Qualitative assessment of measured acreage of prime farmland soils within 200 ft. wide corridor using GIS soils layer from NRCS
	Agricultural Land Use Impacts	Minimize impact to agricultural properties with each alternative	Qualitative assessment of identified areas of agricultural land that will be impacted
CULTURAL IMPACTS	Historical	Avoid and/or minimize adverse effects to historic resources	Identify and evaluate the number of potential historic structures within 500 feet of the alternatives
	Archaeological	Avoid and/or minimize adverse effects to archeological resources	Identify and evaluate the number of cemeteries and known (recorded) archeological sites within 500 feet of the alternatives
	Hazardous Material Site Impacts (Landfills, Abandoned Landfills)	Minimize adverse effects from and to existing hazardous material sites	Qualitative assessment of identified hazardous material sites which may have adverse effects for each of the alternatives
AGENCY AND SHAREHOLDER INPUT	Level of Public Support	Include Public's input in considering and evaluating alternatives	Assessment of support for each alternative
	Level of Agency Support	Include Review and Partnering Agency input in considering and evaluating alternatives	Assessment of support for each alternative