

# US 77 Route Options Matrix



PROPOSED ROUTE OPTIONS SCREENING MATRIX (DRAFT)						
ROUTE OPTION	DESCRIPTION	APPROXIMATE TRAVEL DISTANCE (MILES)*	APPROXIMATE TRAVEL TIME (MIN)*	TRAFFIC DIVERSION RATE (%)**	BENEFITS	DRAWBACKS
<b>ROUTE OPTIONS CONNECTING TO EXISTING I-37 INTERCHANGE</b>						
A-1	Upgrade of US 77 from existing I-37 interchange to FM 1945 (Elevated Through Odem)	10	8	90%	-Maximizes use of existing US 77 Right of Way -Directly serves Odem -Utilizes existing I-37 interchange location	-Higher potential to impact residences and businesses -Higher potential to impact utilities -Higher potential for noise impacts -Delays and community disruption inside Odem during construction -Heavy truck traffic continues through Odem -May adversely impact community cohesion
A-2	Upgrade of US 77 from existing I-37 interchange to south of Odem; then new location around Odem to the west; finally upgrade of US 77 from north of Odem to FM 1945	10	8	90%	-Provides close access to Odem -Utilizes existing I-37 interchange location	-Impacts existing development along US 77 north of Odem -Impacts potential future housing developments
A-3	Upgrade of US 77 from existing I-37 interchange to south of Odem; then new location around Odem to the east; then extending parallel to US 77 on the east side; finally connecting to US 77 at FM 1945	10	8	90%	-Minimizes impacts to residences and businesses -Provides close access to Odem -Utilizes existing I-37 interchange location	-Involves 3 railroad crossings -Higher potential to impact farmland and operations
<b>ROUTE OPTIONS CONNECTING TO NEW PROPOSED CENTRAL I-37 INTERCHANGE</b>						
B-1	US 77 new location from proposed central I-37 interchange to south of Odem; then upgrade of US 77 from south of Odem to FM 1945 (Elevated Through Odem)	11	10	85%	-Provides high speed connection between US 77 and I-37 and a design that also enhances safety -Directly serves Odem	-Higher potential to impact residences and businesses -Higher potential to impact utilities -Higher potential for noise impacts -Impacts a potential future housing development -Delays and community disruption inside Odem during construction -Heavy truck traffic continues through Odem -May adversely impact community cohesion
B-2	US 77 new location west of Odem from proposed central I-37 interchange to north of Odem; then upgrade of US 77 from north of Odem to FM 1945	10	10	85%	-Provides high speed connection between US 77 and I-37 and a design that also enhances safety -Provides close access to Odem	-Impacts existing development along US 77 north of Odem -Impacts a potential future housing development
B-3	US 77 new location further west of Odem from proposed central I-37 interchange to north of Odem; then upgrade of US 77 from north of Odem to FM 1945	11	10	85%	-Provides high speed connection between US 77 and I-37 and a design that also enhances safety	-Impacts existing development along US 77 north of Odem -Impacts a potential future housing development -Does not provide close access to Odem
B-4	US 77 new location from proposed central I-37 interchange to south of Odem; then new location around Odem to the east; then extending parallel to US 77 on the east side; finally connecting to US 77 at FM 1945	11	10	85%	-Minimizes impacts to residences and businesses -Provides high speed connection between US 77 and I-37 and a design that also enhances safety -Provides close access to Odem	-Involves 3 railroad crossings -Higher potential to impact farmland and operations
<b>ROUTE OPTIONS CONNECTING TO NEW PROPOSED NORTH I-37 INTERCHANGE</b>						
C-1	US 77 new location from proposed north I-37 interchange to north of Odem; then upgrade of US 77 from north of Odem to FM 1945	14	13	75%	-Provides high speed connection between US 77 and I-37 and a design that also enhances safety -Least potential to impact floodplains	-Does not provide close access to Odem -Longest travel time and distance -Lowest diversion rate -Impacts existing development along US 77 north of Odem -Higher potential to impact farmland and operations -Doesn't improve emergency access across the railroad for Odem

\*THIS VALUE IS THE DISTANCE/TRAVEL TIME FROM THE EXISTING I-37/US 77 INTERCHANGE TO FM 1945

\*\*TRAFFIC DIVERSION RATE REFERS TO THE PERCENTAGE OF US 77 TRAFFIC EXPECTED TO USE THE PROPOSED ROUTE OPTION. THE DIVERSION RATE WAS FORECASTED WITH 2050 DESIGN YEAR TRAFFIC PROJECTIONS.

**WORKING DRAFT SUBJECT TO CHANGE, SEPTEMBER 22, 2022**