NORTH/SOUTH ROADWAY NEEDS AND OPPORTUNITIES

February 16, 2017 – 1:00pm McKinney City Hall McKinney, Texas



North Central Texas Council of Governments

COLLIN COUNTY ROADWAY ACTION PLAN

WELCOME + INTRODUCTIONS

NCTCOG STAFF

Michael Morris, P.E. - Director of Transportation

Dan Lamers, P.E. - Senior Program Manager

Kevin Feldt, AICP - Program Manager

Jeff Neal - Program Manager

Chris Reed - Senior Transportation Planner

NCTCOG OVERVIEW

The North Central Texas Council of Governments (NCTCOG), through its Transportation Department, is the federally designated Metropolitan Planning Organization (MPO) that conducts regional transportation planning in North Central Texas.

MPO Activities are Led by:

NCTCOG Executive Board – Fiscal Administration

Regional Transportation Council (RTC) – Policy and Funding Administration

Several Technical Committees

Major Responsibilities Include:

Metropolitan Transportation Plan

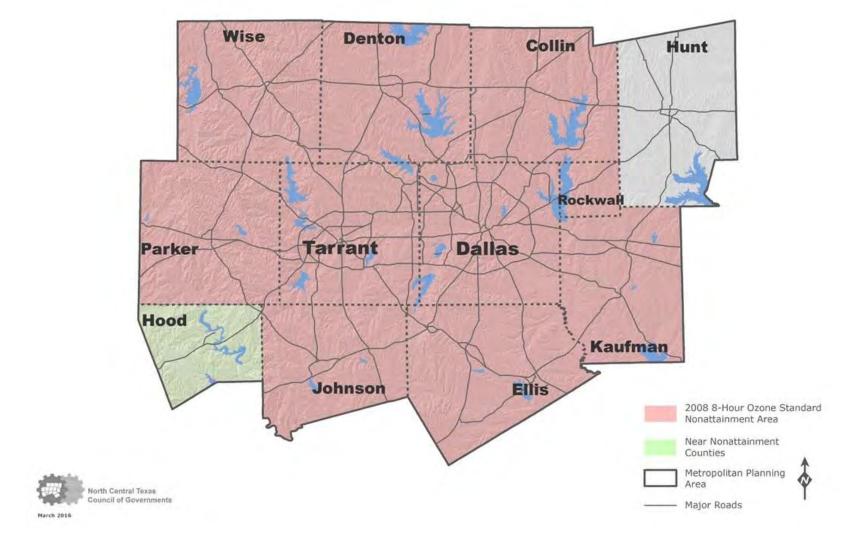
Transportation Improvement Program

Unified Planning Work Program

Congestion Management Process

Air Quality Conformity

NCTCOG METROPOLITAN PLANNING AREA WITH 8-HOUR OZONE NONATTAINMENT AREA



TEN YEAR PLAN PROJECT FUNDING

TEN YEAR PLAN (HOUSE BILL 20)

An annual collaborative performance-based apparatus for local governments and MPOs to assist the Texas Department of Transportation (TxDOT) in selecting and prioritizing roadway projects for the statewide Unified Transportation Program (UTP). The North Central Texas regional project list was approved by the RTC in December 2016.

Collin County Roadway Action Plan Projects:

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North/South Corridors – $200,000,000
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Regional Outer Loop (DNT – SH 121) – \$100,000,000

Regional Outer Loop (US 380 – Rockwall C/L) – \$50,000,000

US 380/McKinney Bypass – \$252,000,000

Complimentary Projects for North/South Corridors:

FM 2478 (FM 1461 – US 380) – \$32,600,000

FM 2514 (Lavon Pkwy. – Brown Street) – \$26,796,024

FM 2551 (FM 2170 - FM 2514) - \$38,099,111

SH 205 (SH 78 – Rockwall C/L) – \$28,654,950

SH 205 (Collin C/L – SH 66) – \$32,115,673

STRATEGIC REVIEW

North/South Arterial and Intersection Projects Collin and Rockwall Counties



COLLIN COUNTY ROADWAY ACTION PLAN

2017 Levels of Congestion/Delay

Congestion Index* Denton Wise Collin Hunt No Congestion Light Congestion Moderate Congestion Severe Congestion Major Roads Rockwall **Dallas CBD** 35E Tarrant 30 **Parker** Dallas Hood Fort Worth CBD Kaufman Ellis Johnson Cost of Congestion/Delay: \$10.7 billion North Central Texas

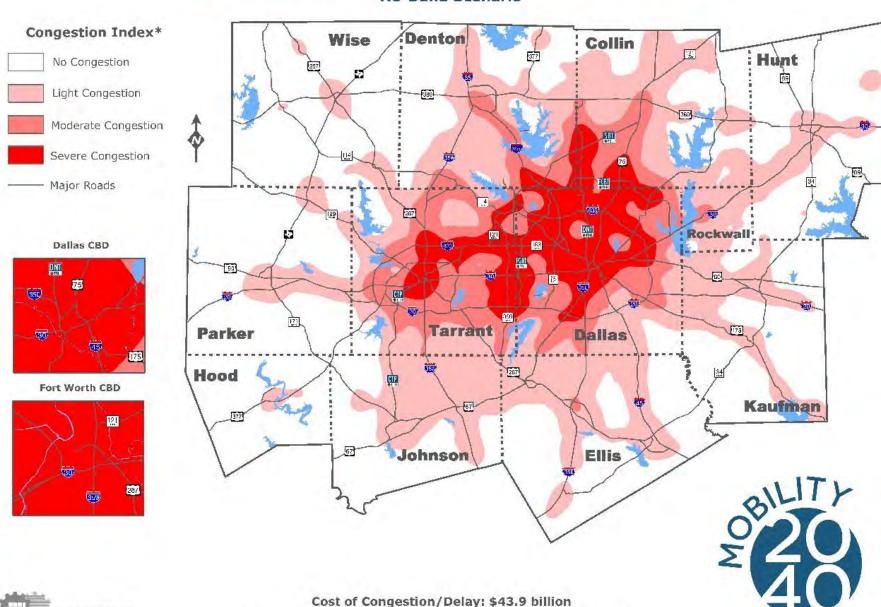
*Congestion Index is based on a percent increase in travel time.

Council of Governments

March 2016

2040 Levels of Congestion/Delay

No-Build Scenario

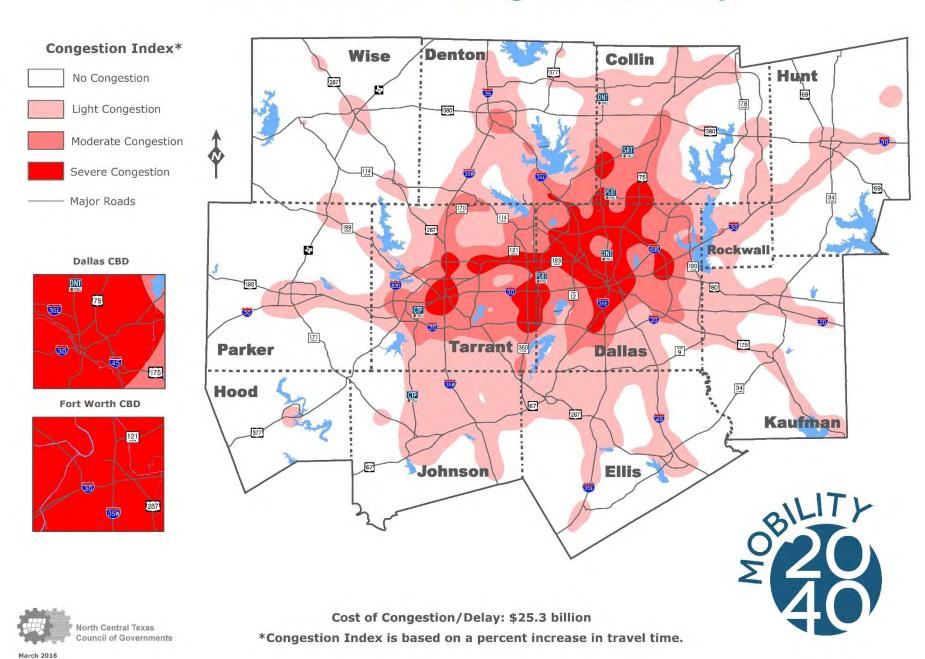


*Congestion Index is based on a percent increase in travel time.

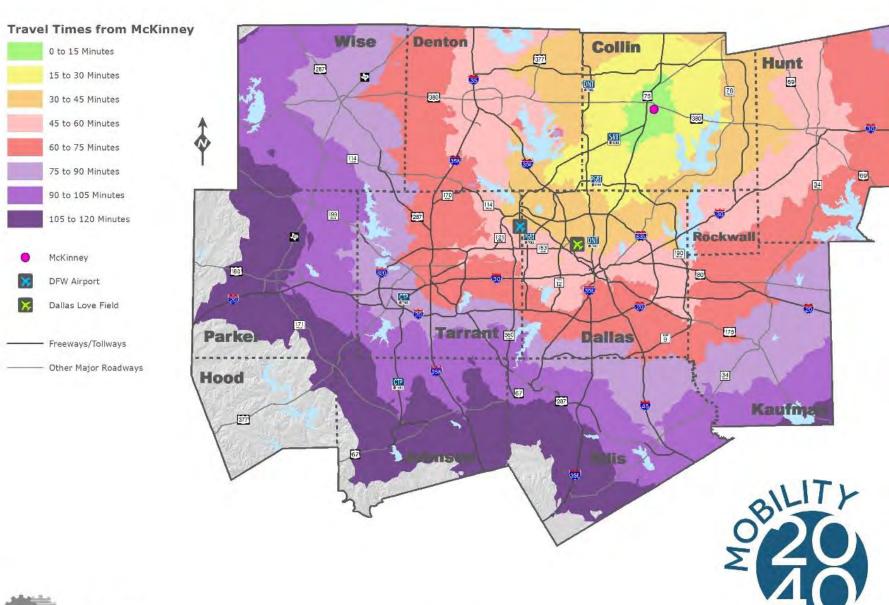
North Central Texas

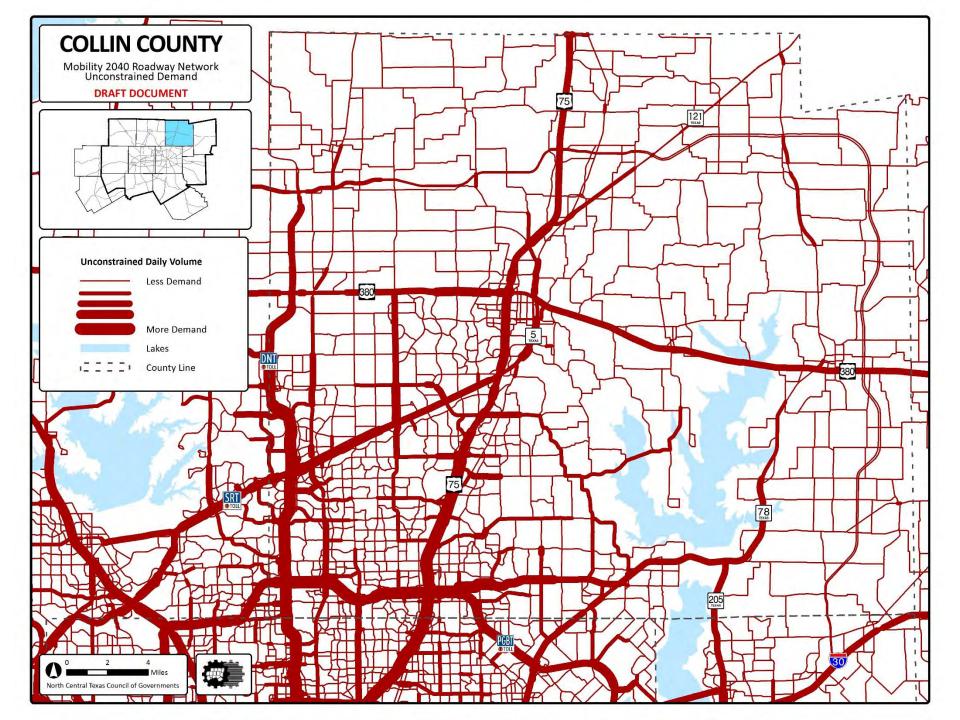
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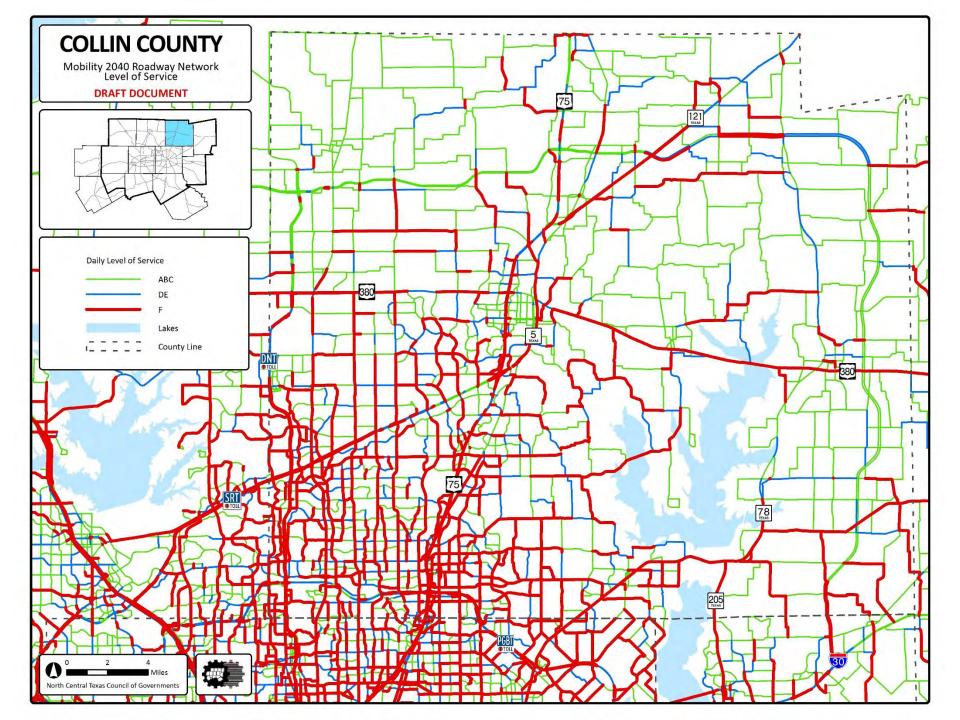
2040 Levels of Congestion/Delay



2040 PM Peak Period Travel Times from McKinney









Roadway Action Plan for Collin County

Corridor 1 (Near Term): US 75

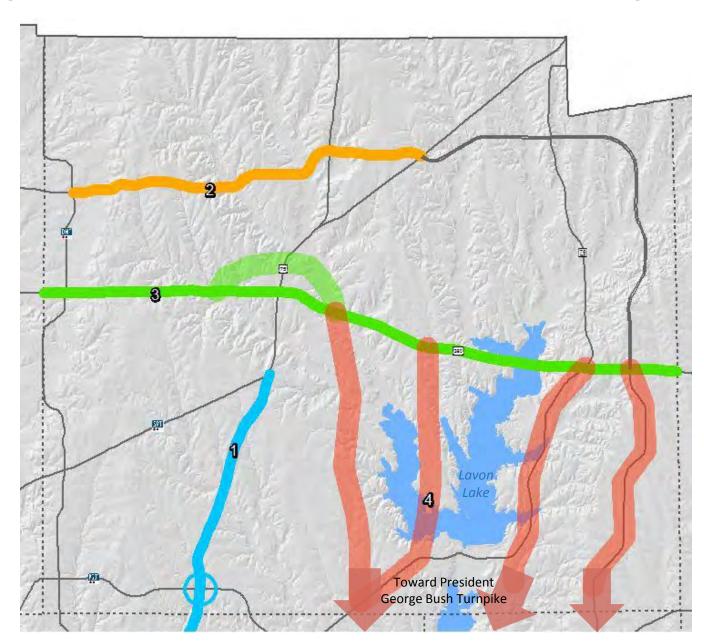
- Widening in Allen
- PGBT Interchange Ramp Improvement
- Widen Plano Parkway and DART rail bridges
- Technology Lane

Corridor 2 (Near Term): Collin County Outer Loop Staged construction of frontage roads

Corridor 3 (Near Term): US 380

- Countywide Study
- McKinney Bypass

Corridor 4 (Longer Term):
Collin County Strategic
Transportation Initiative
Study of non-tolled
north/south roadway
needs and opportunities



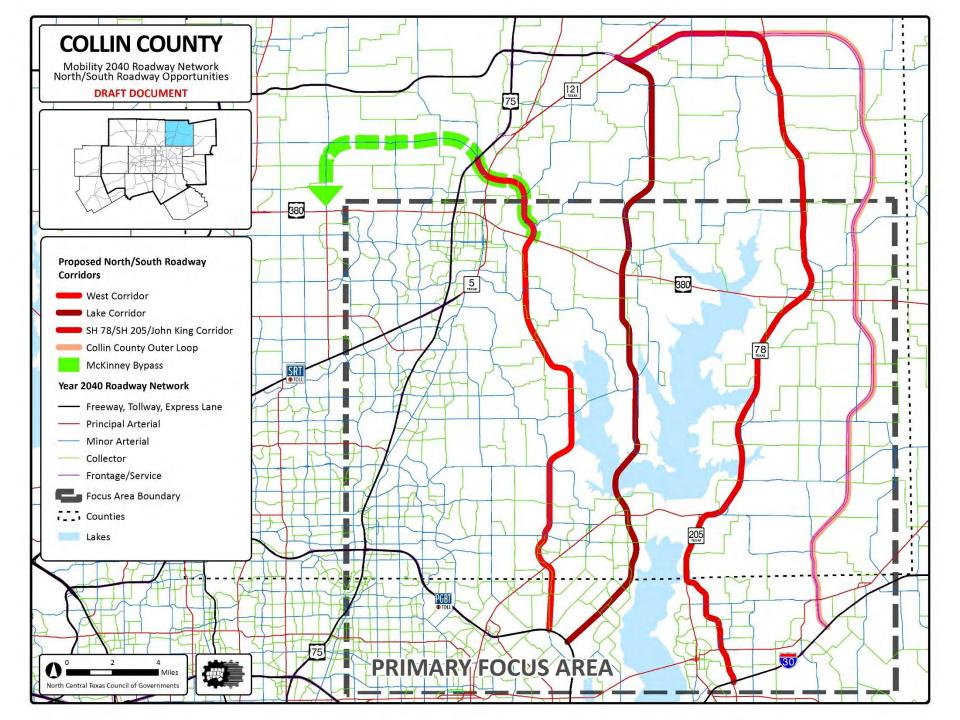
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Roadway Action Plan for Collin County

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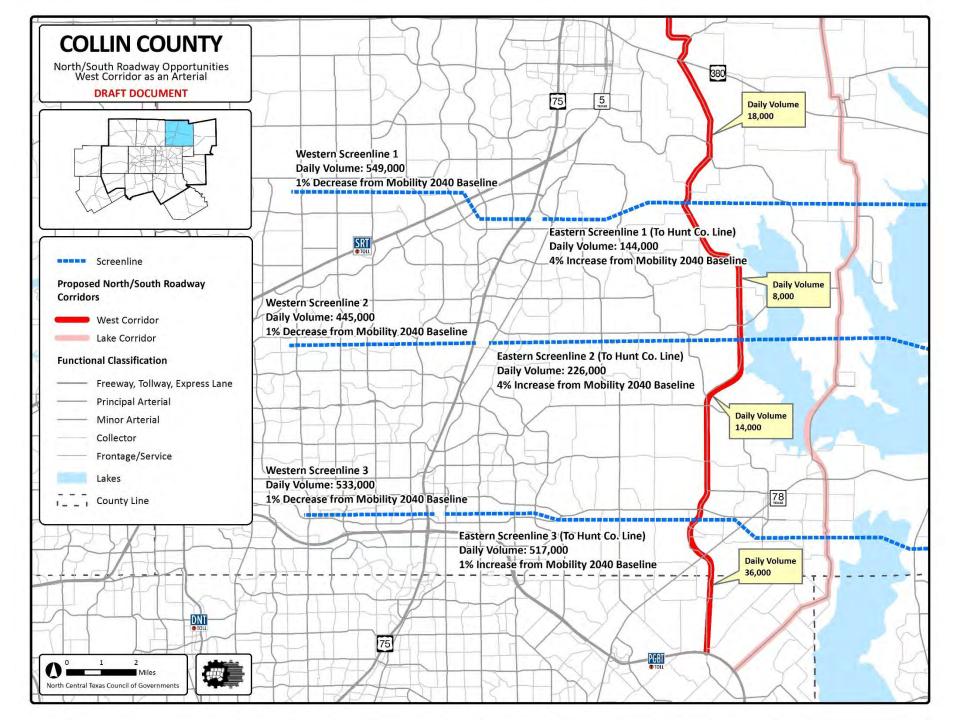
Corridor	Project	Description	Contact	
	Widening in Allen	Widen freeway to a continuous 8-lane section through Allen	TxDOT: Kelly Selman	
	PGBT interchange ramp improvement Widen ramps from PGBT to northbound US 75 and US 75 southbound to PGBT		NTTA: TxDOT: Kelly Selman	
1) US 75 (Near Term)	Widen Plano Parkway and DART rail bridges Widen narrow section on US 75 by expanding Plano Parkway and DART rail bridges		TxDOT: Kelly Selman	
	Technology Lane	Remove HOV lane and pylons and allow usage of the lane during peak hours and for incident management	NCTCOG: Natalie Bettger TxDOT: Kelly Selman	
2) Collin County Outer Loop (Near Term)	Staged construction of frontage roads	Construct one side of frontage road between DNT and SH 121	NCTCOG: Sandy Wesch Collin County: Clarence Daugherty	
3) US 380	Countywide study	Study needs on US 380 from Denton County line to Hunt County line	TxDOT: Kelly Selman	
(Near Term)	McKinney Bypass	Study potential of a bypass around northern McKinney for US 380	TxDOT: Kelly Selman	
4) Collin County Strategic Transportation Initiative (Longer Term) Study of non-tolled north/south roadway needs and opportunities		Study north/south transportation needs in the southeastern part of Collin County to enhance the non-tolled roadway grid around Lavon Lake and connections southward to PGBT	NCTCOG: Dan Lamers	

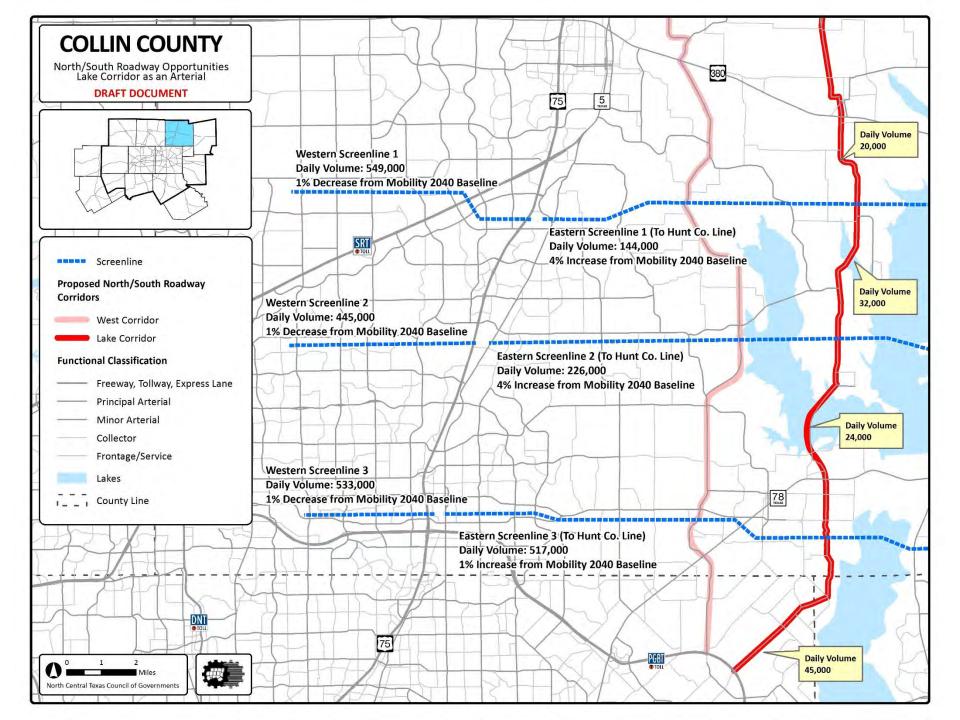
NORTH/SOUTH ROADWAY NEEDS AND OPPORTUNITIES

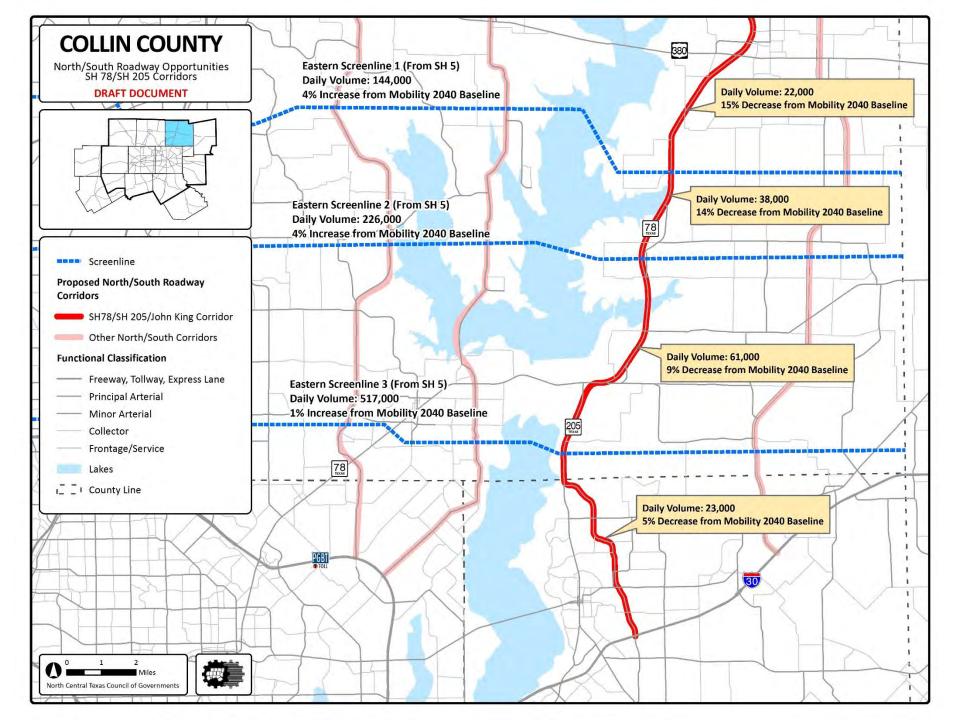


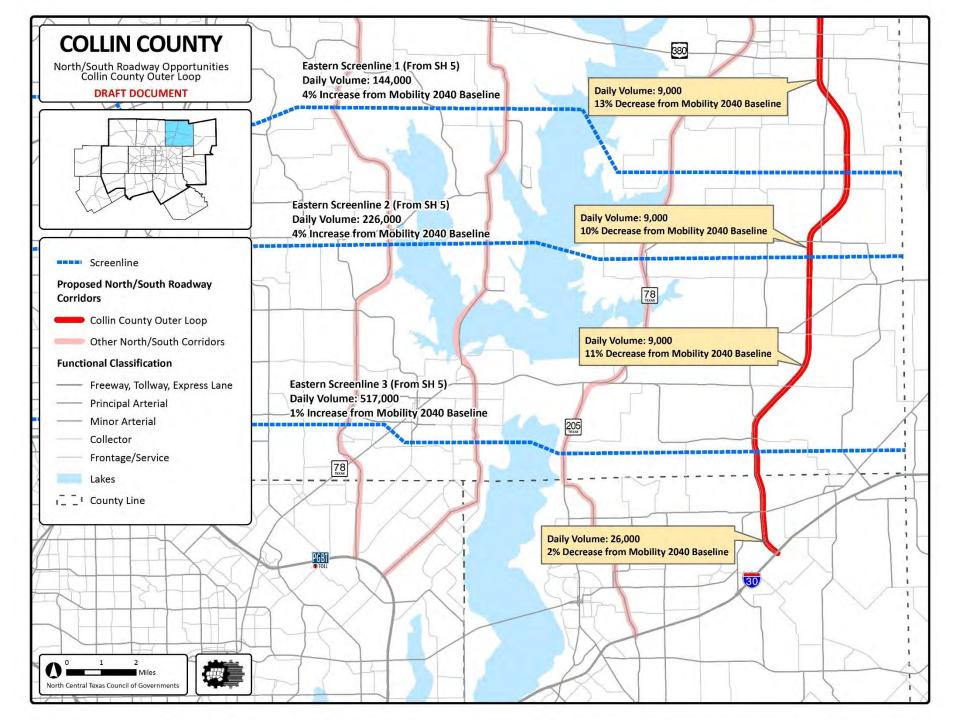
North/South Roadway Model Assumptions	Classification	Lanes	Speed (MPH)	Limited Access	Future Freeway	Tolled	North Terminus	South Terminus
West Corridor	Principal Arterial	6	45	Potential	Potential	No	US 75	PGBT
Lake Corridor	Principal Arterial	6	45	Potential	Potential	No	Outer Loop/SH 121	PGBT
SH 78/SH 205/John King	Principal Arterial	6*	45-65	Potential	Potential	No	Outer Loop	IH 30
Collin County Outer Loop	Frontage (Staged Facility Configuration)	4	55	Yes	Yes	No	SH 121	IH 30

^{*}SH 205 south of John King Blvd is assumed as 4 lanes per the Rockwall County Thoroughfare Plan.









ADDITIONAL PLANNING CONSIDERATIONS

SH 121 EASTERN ALIGNMENT

Roadway Model Assumptions

6 Lane Freeway

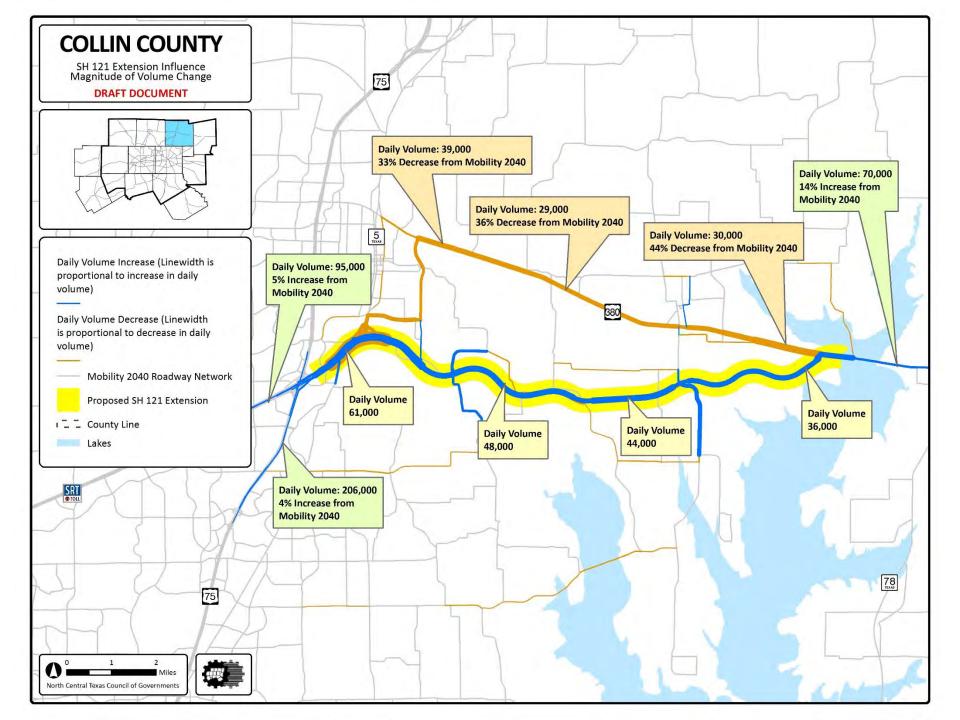
70 Miles per Hour

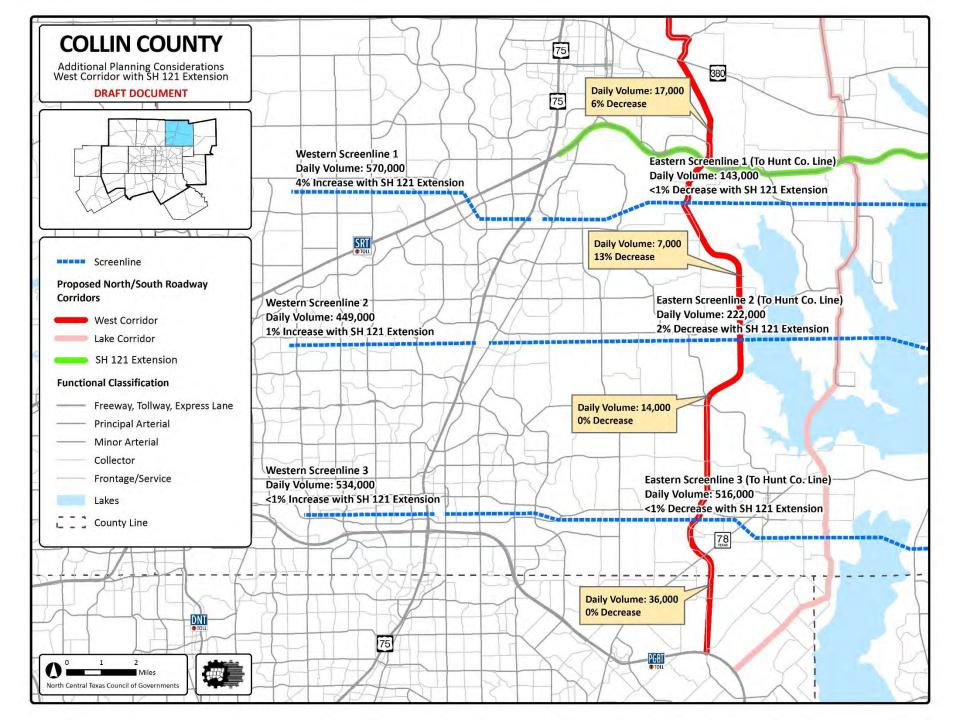
Non-Tolled Facility

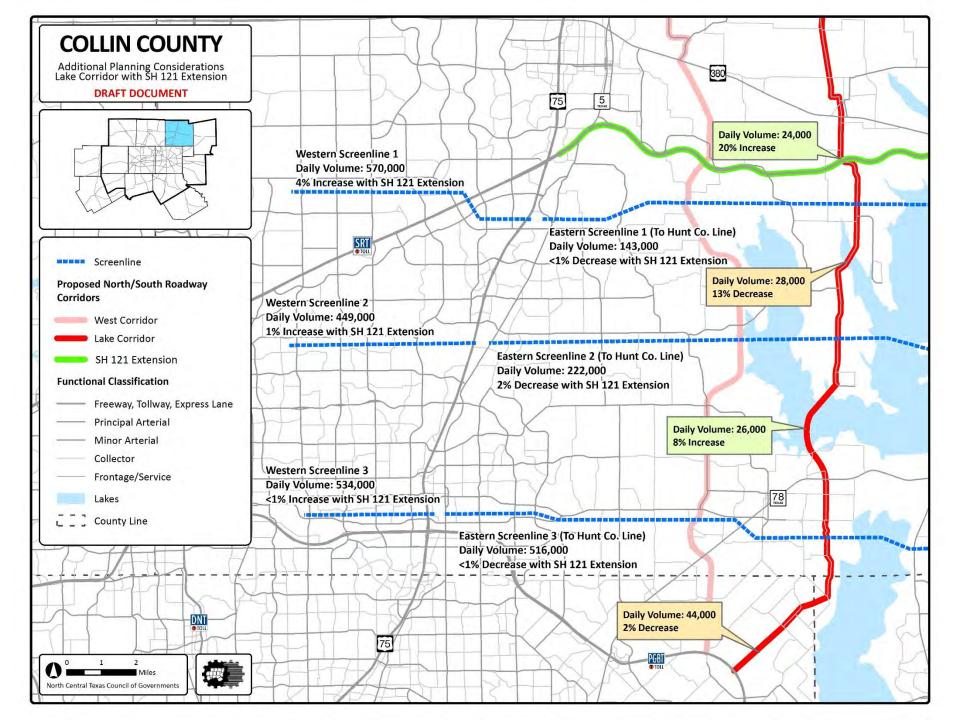
From US 75/Sam Rayburn Tollway to US 380 East of the City of Princeton

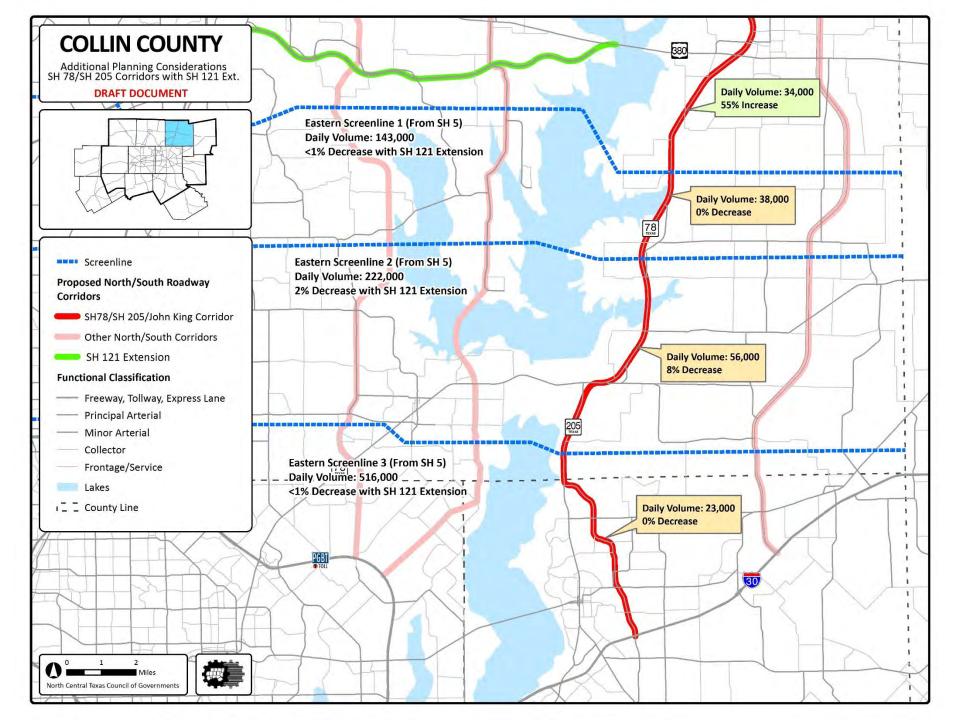
Modeled alignment based on preliminary design by Halff Associates for the City of McKinney (August 2016)

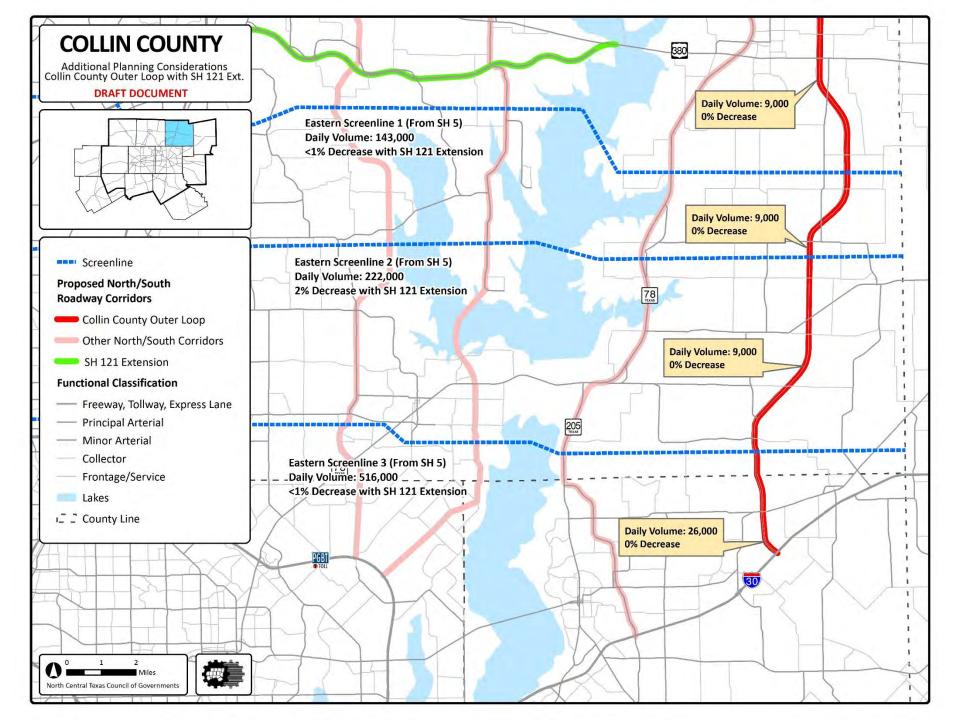
Awaiting TxDOT determination regarding interface with proposed FM 546 project between SH 5 and Airport Drive











NEXT STEPS

NEXT STEPS

Meet with elected officials.

Analyze potential refined alternatives.

Proceed with strategic review to identify possible expedited projects.

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EXPANDED CONTACT INFORMATION

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