What is NCTCOG?

The North Central Texas Council of Governments is a voluntary association of cities, counties, school districts, and special districts which was established in January 1966 to assist local governments in planning for common needs, cooperating for mutual benefit, and coordinating for regional sound development.

It serves a 16-county metropolitan region centered around the two urban centers of Dallas and Fort Worth. Currently the Council has 236 members, including 16 counties, 168 cities, 24 independent school districts, and 28 special districts. The area of the region is approximately 12,800 square miles, which is larger than nine states, and the population of the region is over 6.5 million, which is larger than 38 states.

NCTCOG's structure is relatively simple; each member government appoints a voting representative from the governing body. These voting representatives make up the General Assembly which annually elects a 15-member Executive Board. The Executive Board is supported by policy development, technical advisory, and study committees, as well as a professional staff of 362.

NCTCOG's offices are located in Arlington in the Centerpoint Two Building at 616 Six Flags Drive (approximately one-half mile south of the main entrance to Six Flags Over Texas).

North Central Texas Council of Governments
P. O. Box 5888
Arlington, Texas 76005-5888
(817) 640-3300

NCTCOG's Department of Transportation

Since 1974 NCTCOG has served as the Metropolitan Planning Organization (MPO) for transportation for the Dallas-Fort Worth area. NCTCOG's Department of Transportation is responsible for the regional planning process for all modes of transportation. The department provides technical support and staff assistance to the Regional Transportation Council and its technical committees, which compose the MPO policy-making structure. In addition, the department provides technical assistance to the local governments of North Central Texas in planning, coordinating, and implementing transportation decisions.

Prepared in cooperation with the Texas Department of Transportation and the US Department of Transportation, Federal Highway Administration, and Federal Transit Administration.

*The contents of this report reflect the views of the authors who are responsible for the opinions, findings, and conclusions presented herein. The contents do not necessarily reflect the views or policies of the Federal Highway Administration, the Federal Transit Administration, or the Texas Department of Transportation.*
FOREWORD

This report for the SH 199 Corridor Master Plan has been prepared in accordance with current regulations and best planning practices. The structure of this document includes four volumes.

- Volume I – Final Report includes an executive summary and seven sections documenting the study analyses and technical memorandums.
- Volume II – Mapping includes the mapping of the social, economic, natural environment, and other physical conditions within the study area.
- Volume III – Public and Stakeholder Involvement documents the meetings and coordination efforts associated with the study along with comments received from the public and stakeholders.
- Volume IV – Technical Memorandums includes a compilation of the 18 technical memorandums developed during the SH 199 Corridor Master Plan.
Exhibit II-1
Project Location

State Highway 199
Corridor Master Plan

Legend

SH 199
Stream
Centerline
Parks
City Limits

Key Map

North Central Texas Council of Governments

Miles

Date: 7/28/2016
Document Name: AerialMap_11x17.mxd
Document Path: H:TRANSPORTATION\Working\20160617_AerialMap\AerialMap_11x17.mxd
Exhibit II-5
State Highway 199 Corridor Master Plan

Legend
- SH 199
- Parcel Boundaries
- Study Area Boundary
- City Limits

Existing Land Use
- Commercial
- Industrial
- Mixed Use
- Mobile Home
- Multi Family
- Office
- Parks
- Public
- Retail
- Single Family
- Vacant
Exhibit II-9
State Highway 199
Corridor Master Plan

Legend

- SH 199
- Parcel Boundaries
- Study Area Boundary
- City Limits

Current Zoning
- Commercial
- Industrial
- Mixed Use
- Mobile Home
- Multi Family
- Parks
- Planned Development
- Public
- Single Family

Feet: 0 500 1,000
Environmental
Considerations
Exhibit II-15

State Highway 199
Corridor Master Plan

Legend

- SH 199
- Cemetery
- Place of Worship
- School
- Historic Place
- Historic District
- Stream Centerline
- FEMA 100yr Floodplain
- Wetland Area
- Park
- Parcel Boundary
- City Limits
- Study Area Boundary

Key Map

Lake Worth

Temple Precious Faith

Steadfast Baptist Church

Fort Worth

II-15
Environmental Considerations
Exhibit II-17
State Highway 199 Corridor Master Plan

Legend
- SH 199
- Cemetery
- Place of Worship
- School
- Historic Place
- Historic District
- Stream Centerline
- FEMA 100yr Floodplain
- Wetland Area
- Park
- Parcel Boundary
- City Limits
- Study Area Boundary

Key Map

Wetland Area Data Source: U.S. Fish & Wildlife Service, National Wetlands Inventory, 2017
Historic District Data Source: National Register of Historic Places, 2017
Parcel Data Source: Tarrant Appraisal District Parcels 2015

Date: 07/15/2017

Peach Tree

Christian Worship Center

Faith Family Church

Iglesia Temple Jerusalem

Fort Worth

River Oaks

Stream WF/S

Unnamed Tributary

Andrew Campbell Park

Andrew Campbell Park

Robertson Park

Robertson Park

1000 ft

3000 ft

5000 ft

8000 ft

10,000 ft

0
300
600
900

Feet

II-17
Environmental Considerations
Exhibit II-18
State Highway 199 Corridor Master Plan

Legend
- SH 199
- Cemetery
- Place of Worship
- School
- Historic Place
- Historic District
- Stream Centerline
- FEMA 100yr Floodplain
- Wetland Area
- Park
- Parcel Boundary
- City Limits
- Study Area Boundary

Key Map

Northside High School
St. Demetrios Greek Orthodox Church
Grand Avenue Historic District

Wetland Area Data Source: U.S. Fish & Wildlife Service, National Wetlands Inventory, 2017
Historic District Data Source: National Register of Historic Places, 2017
Environmental Considerations
Exhibit II-20

State Highway 199 Corridor Master Plan

Legend
- SH 199
- Cemetery
- Place of Worship
- School
- Historic Place
- Historic District
- Stream Centerline
- FEMA 100yr Floodplain
- Wetland Area
- Park
- Parcel Boundary
- City Limits
- Study Area Boundary

Key Map

Henderson Street Bridge

Exhibit II-20
State Highway 199
Corridor Master Plan

Legend
- SH 199
- Stream Centerline
- Parks
- Parcel Boundaries
- City Limits
- Existing Fire Hydrant
- Existing Water Lines
- 2023 Water Line Improvement

City of Fort Worth
Existing and Planned
Water Utilities
Exhibit II-32

Parcel Data Source: Tarrant Appraisal District Parcels 2015
Date: 7/25/2017
Service Layer Credits: Image courtesy of USGS Image courtesy of ImagePatch.com © 2017 Microsoft Corporation © Harris Corp, Earthstar Geographics LLC Earthstar Geographics © 2017 Microsoft Corporation © 2017 HERE
State Highway 199
Corridor Master Plan

Legend

- **SH 199**
- Stream Centerline
- Parks
- Parcel Boundaries
- City Limits
- Existing Fire Hydrant
- Existing Water Lines
- 2023 Water Line Improvement

City of Fort Worth
Existing and Planned
Water Utilities
Exhibit II-34

Parcel Data Source: Tarrant Appraisal District Parcels 2015
Date: 7/25/2017

Service Layer Credits: Image courtesy of USGS Image courtesy of ImagePatch.com © 2017 Microsoft Corporation © Harris Corp, Earthstar Geographics LLC © 2017 Microsoft Corporation © 2017 HERE

Key Map
State Highway 199 Corridor Master Plan

Legend
- SH 199
- Streams
- Parks
- Parcel Boundaries
- City Limits
  - Existing Manhole
  - Existing Sewer Line
  - Existing Model Force Main
  - 2015 Sewer Line Improvement
  - 2015 Force Main Improvement
  - 2020 Sewer Line Improvement
  - 2030 Sewer Line Improvement

City of Fort Worth Existing and Planned Waste Water Utilities

Exhibit II-35

Date: 7/25/2017

Parcel Data Source: Tarrant Appraisal District Parcels 2015

Service Layer Credits: Image courtesy of USGS Image courtesy of ImagePatch.com © 2017 Microsoft Corporation © 2017 HERE ©
City of Fort Worth
Existing and Planned
Waste Water Utilities

Exhibit II-37

State Highway 199 Corridor Master Plan

Legend
- SH 199
- Streams
- Parks
- Parcel Boundaries
- City Limits
- Existing Manhole
- Existing Sewer Line
- Existing Model Force Main
- 2015 Sewer Line Parallel Improvement
- 2015 Sewer Line Improvement
- 2015 Force Main Improvement
- 2020 Sewer Line Improvement
- 2030 Sewer Line Improvement

Key Map

City of Fort Worth
Existing and Planned
Waste Water Utilities

Exhibit II-37
Existing Right-of-Way and Site Access

Exhibit II-41
State Highway 199
Corridor Master Plan

Legend
- Study Area Boundary
- City Limits
- Median Opening
- Signalized Intersection
- Driveway Access
- Side Street Access

ROW Description
- 80’ ROW, 4 Lane Road
- 100’ ROW, 4 Lane Road
- 120’ ROW, 4 Lane Road
- 140’ ROW, 4 Lane Road
- 150’ ROW, 4 Lane Road
- 150’ ROW, 6 Lane Road
Existing Right-of-Way and Site Access

Exhibit II-43
State Highway 199
Corridor Master Plan

Legend
- Study Area Boundary
- City Limits
- Median Opening
- Signalized Intersection
- Driveway Access
- Side Street Access

ROW Description
- 80' ROW, 4 Lane Road
- 100' ROW, 4 Lane Road
- 120' ROW, 4 Lane Road
- 140' ROW, 4 Lane Road
- 150' ROW, 4 Lane Road
- 150' ROW, 6 Lane Road

Key Map
Existing Right-of-Way and Site Access

Exhibit II-44
State Highway 199
Corridor Master Plan

Legend
- Study Area Boundary
- City Limits
- Median Opening
- Signalized Intersection
- Driveway Access
- Side Street Access

ROW Description
- 80' ROW, 4 Lane Road
- 100' ROW, 4 Lane Road
- 120' ROW, 4 Lane Road
- 140' ROW, 4 Lane Road
- 150' ROW, 4 Lane Road
- 150' ROW, 6 Lane Road

Key Map
State Highway 199
Corridor Master Plan

Existing Right-of-Way and Site Access

Exhibit II-45
State Highway 199
Corridor Master Plan

Legend

- Study Area Boundary
- City Limits
- Median Opening
- Signalized Intersection
- Driveway Access
- Side Street Access

ROW Description
- 80' ROW, 4 Lane Road
- 100' ROW, 4 Lane Road
- 120' ROW, 4 Lane Road
- 140' ROW, 4 Lane Road
- 150' ROW, 4 Lane Road
- 150' ROW, 6 Lane Road

Key Map
Existing Right-of-Way and Site Access

Exhibit II-46
State Highway 199
Corridor Master Plan

Legend

- Study Area Boundary
- City Limits
- Median Opening
- Signalized Intersection
- Driveway Access
- Side Street Access

ROW Description

- 80' ROW, 4 Lane Road
- 100' ROW, 4 Lane Road
- 120' ROW, 4 Lane Road
- 140' ROW, 4 Lane Road
- 150' ROW, 4 Lane Road
- 150' ROW, 6 Lane Road

Key Map

Parcel Data Source: Tarrant Appraisal District Parcels 2015
Date: 06/01/2017
Existing and Planned Bicycle and Pedestrian Accommodations Map

Exhibit II-48

State Highway 199 Corridor Master Plan

Legend
- Bus Stop
- Educational Facilities
- Recreation Facilities
- Existing Pedestrian Facility
- Existing Bike Facility
- Existing Bike & Ped Facility
- Proposed Bike Facility
- Regional Bike Facility
- Study Area Boundary
- City Limits

Key Map

Date: 9/23/2016
State Highway 199
Corridor Master Plan

Legend

SH 199
Parks
Parcel Boundaries
Study Area Boundary
City Limits
Signalized Intersection

Automobiles
- Fatality and Incap Injury
- Non-Incap, Pos Injury

Bicycle (B) and Pedestrian (P)
- (B) Fatality, Incap Injury
- (B) Non-Incap, Pos Injury
- (P) Fatality, Incap Injury
- (P) Non-Incap, Pos Injury

Parcel Data Source: Tarrant Appraisal District Parcels 2015
Date: 2/17/2017

Service Layer Credits: Image courtesy of USGS Image courtesy of ImagePatch.com © 2017 Microsoft Corporation © Harris Corp, Earthstar Geographics LLC Earthstar Geographics  SIO © 2017 Microsoft Corporation © 2017 HERE

Crash Data Source: TxDOT's Crash Records Information System (CRIS) - 2010-2014 Data

Crash Map
Exhibit II-49

Crash Data Map
Exhibit II-49
State Highway 199
Corridor Master Plan

Legend
- SH 199
- Parks
- Parcel Boundaries
- Study Area Boundary
- City Limits
- Signalized Intersection

Automobiles
- Fatality and Incap Injury
- Non-Incap, Pos Injury

Bicycle (B) and Pedestrian (P)
- (B) Fatality, Incap Injury
- (B) Non-Incap, Pos Injury
- (P) Fatality, Incap Injury
- (P) Non-Incap, Pos Injury

Parcel Data Source: Tarrant Appraisal District Parcels 2015
Date: 2/17/2017

Service Layer Credits: Image courtesy of USGS Image courtesy of ImagePatch.com © 2017 Microsoft Corporation © Harris Corp, Earthstar Geographics LLC Earthstar Geographics © 2017 Microsoft Corporation © 2017 HERE

Crash Data Source: TxDOT's Crash Records Information System (CRIS) - 2010-2014 Data
Crash Map

Key Map

II-52
1. During a future design phase, a licensed land surveyor shall locate property boundaries, right-of-way limits, and topographic survey within the project limits.

2. Driveway and median opening widths and locations are preliminary and will be determined during a future design phase.
NOTES:
1. DURING A FUTURE DESIGN PHASE, A LICENSED LAND SURVEYOR SHALL LOCATE PROPERTY BOUNDARIES, RIGHT-OF-WAY LIMITS, AND TOPOGRAPHIC SURVEY WITHIN THE PROJECT LIMITS.
2. DRIVEWAY AND MEDIAN OPENING WIDTHS AND LOCATIONS ARE PRELIMINARY AND WILL BE DETERMINED DURING A FUTURE DESIGN PHASE.
COORDINATION WITH THE CITY OF SANSOM PARK REGARDING THE CONSTRUCTION OF ON-STREET BIKE LANES ALONG BIWAY STREET AND AT THE INTERSECTION OF SH 199 SHALL OCCUR DURING FUTURE DESIGN PHASES.

NOTES:
1. DURING A FUTURE DESIGN PHASE, A LICENSED LAND SURVEYOR SHALL LOCATE PROPERTY BOUNDARIES, RIGHT-OF-WAY LIMITS, AND TOPOGRAPHIC SURVEY WITHIN THE PROJECT LIMITS.
2. DRIVEWAY AND MEDIAN OPENING WIDTHS AND LOCATIONS ARE PRELIMINARY AND WILL BE DETERMINED DURING A FUTURE DESIGN PHASE.

DRAFT LAYOUT
1. During a future design phase, a licensed land surveyor shall locate property boundaries, right-of-way limits, and topographic survey within the project limits.

2. Driveway and median opening widths and locations are preliminary and will be determined during a future design phase.

Notes:
- Property lines (per TXDOT record data)
- Property lines (per 2015 Tarrant appraisal district data)
- Proposed sidewalk
- Proposed median and parkway landscaping or hardscaping
NOTES:

1. DURING A FUTURE DESIGN PHASE, A LICENSED LAND SURVEYOR SHALL LOCATE PROPERTY BOUNDARIES, RIGHT-OF-WAY LIMITS, AND TOPOGRAPHIC SURVEY WITHIN THE PROJECT LIMITS.

2. DRIVEWAY AND MEDIAN OPENING WIDTHS AND LOCATIONS ARE PRELIMINARY AND WILL BE DETERMINED DURING A FUTURE DESIGN PHASE.
Exhibit II-62

STATE HIGHWAY 199
CORRIDOR MASTER PLAN

SH 183
INTERSECTION LAYOUT

NOTES:

1. DURING A FUTURE DESIGN PHASE, A LICENSED LAND SURVEYOR SHALL LOCATE PROPERTY BOUNDARIES, RIGHT-OF-WAY LIMITS, AND TOPOGRAPHIC SURVEY WITHIN THE PROJECT LIMITS.

2. DRIVEWAY AND MEDIAN OPENING WIDTHS AND LOCATIONS ARE PRELIMINARY AND WILL BE DETERMINED DURING A FUTURE DESIGN PHASE.
NOTES:
1. DURING A FUTURE DESIGN PHASE, A LICENSED LAND SURVEYOR SHALL LOCATE PROPERTY BOUNDARIES, RIGHT-OF-WAY LIMITS, AND TOPOGRAPHIC SURVEY WITHIN THE PROJECT LIMITS.
2. DRIVEWAY AND MEDIAN OPENING WIDTHS AND LOCATIONS ARE PRELIMINARY AND WILL BE DETERMINED DURING A FUTURE DESIGN PHASE.
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1. DURING A FUTURE DESIGN PHASE, A LICENSED LAND SURVEYOR SHALL LOCATE PROPERTY BOUNDARIES, RIGHT-OF-WAY LIMITS, AND TOPOGRAPHIC SURVEY WITHIN THE PROJECT LIMITS.

2. DRIVEWAY AND MEDIAN OPENING WIDTHS AND LOCATIONS ARE PRELIMINARY AND WILL BE DETERMINED DURING A FUTURE DESIGN PHASE.
1. During a future design phase, a licensed land surveyor shall locate property boundaries, right-of-way limits, and topographic survey within the project limits.

2. Driveway and median opening widths and locations are preliminary and will be determined during a future design phase.
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NOTES:

1. DURING A FUTURE DESIGN PHASE, A LICENSED LAND SURVEYOR SHALL LOCATE PROPERTY BOUNDARIES, RIGHT-OF-WAY LIMITS, AND TOPOGRAPHIC SURVEY WITHIN THE PROJECT LIMITS.

2. DRIVEWAY AND MEDIAN OPENING WIDTHS AND LOCATIONS ARE PRELIMINARY AND WILL BE DETERMINED DURING A FUTURE DESIGN PHASE.
Proposed Drainage Area Map

Exhibit II-70

State Highway 199 Corridor Master Plan

- Project Limits
- Assumed Future Storm Drain
- Proposed Storm Drain
- SH 199 Drainage System
- Off Site Drainage Systems
- Stream Centerline
- Bridges
- Drainage Areas
- Panther Island Bypass
- Channel
- Subbasin Name
- Area (acres)

Storm Drain System Name

Date: 5/3/2017

Subbasin Name

Area (acres)

© II-70
Legend

- Inflow Location
- 2-ft Contours (NCTCOG 2001)
- Proposed Centerline
- Future Storm Drain
- Proposed Storm Drain
- Existing SH 199 Drainage System
- Existing Off Site Drainage Systems
- Stream Centerline
- Drainage
- Bridges

Note: Inlet and lateral capacity was not evaluated as part of the master plan. Future inlets and laterals that may be necessary within the right-of-way are not shown in these exhibits.
Proposed Storm Drain System

Exhibit II-72

State Highway 199 Corridor Master Plan

Legend
- Inflow Location
- 2-ft Contours (NCTCOG 2001)
- Proposed Centerline
- Future Storm Drain
- Proposed Storm Drain
- Existing SH 199 Drainage System
- Existing Off Site Drainage Systems
- Stream Centerline
- Drainage
- Bridges

Note: Inlet and lateral capacity was not evaluated as part of the master plan. Future inlets and laterals that may be necessary within the right-of-way are not shown in these exhibits.

Subbasin Name
Area (acres)

Note: Inlet and lateral capacity was not evaluated as part of the master plan. Future inlets and laterals that may be necessary within the right-of-way are not shown in these exhibits.
Note: Inlet and lateral capacity was not evaluated as part of the master plan. Future inlets and laterals that may be necessary within the right-of-way are not shown in these exhibits.
The diagram shows the Proposed Storm Drain System for State Highway 199 Corridor Master Plan. The map includes various features such as inflow locations, contours, and drainage systems. The legend explains the symbols used in the map.

Legend:
- Inflow Location
- 2-ft Contours (NCTCOG 2001)
- Proposed Centerline
- Future Storm Drain
- Proposed Storm Drain
- Existing SH 199 Drainage System
- Existing Off Site Drainage Systems
- Stream Centerline
- Bridges

Note: Inlet and lateral capacity was not evaluated as part of the master plan. Future inlets and laterals that may be necessary within the right-of-way are not shown in these exhibits.
Proposed Storm Drain System

Exhibit II-75

State Highway 199 Corridor Master Plan

Legend

- Inflow Location
- 2-ft Contours (NCTCOG 2001)
- Proposed Centerline
- Proposed Storm Drain
- Future Storm Drain
- Existing SH 199 Drainage System
- Existing Off Site Drainage Systems
- Stream Centerline
- Bridges

Subbasin Name
Area (acres)

Note: Inlet and lateral capacity was not evaluated as part of the master plan. Future inlets and laterals that may be necessary within the right-of-way are not shown in these exhibits.
The drainage system in this section was evaluated as part of the Panther Island Master Plan.

Note: Inlet and lateral capacity was not evaluated as part of the master plan. Future inlets and laterals that may be necessary within the right-of-way are not shown in these exhibits.