

REQUEST FOR PROPOSALS

**Hydrologic & Hydraulic Services and Transportation Planning Services for Integrating
Transportation and Stormwater Infrastructure – North Study Area**

And

**Environmental Economics Services to the Transportation and Stormwater Infrastructure
(TSI) Planning Study**

**Pre-Proposal Conference
William Pitstick Conference Room
July 23, 2024**

Agenda

Introductions/Agenda Overview

Project Background

Overview of the Scope of Work

RFP Consultant Selection Criteria/Schedule

Questions and Answers

Project Background

Integrating Transportation and Stormwater Infrastructure (TSI)

Project Background

Integrating Transportation and Stormwater Infrastructure (TSI)



- **Project Lead:** NCTCOG is lead agency for project with subrecipients
- **Subrecipients:** US Army Corps of Engineers, Tarrant Regional Water District, Upper Trinity Regional Water District, Texas A&M AgriLife, University of Texas at Arlington

- **Timeline & Budget:** 2.5 years and \$10 million
- **Funders:** Texas General Land Office, Department of Housing and Urban Development, Texas Water Development Board, Federal Highway Administration, Texas Department of Transportation, Federal Emergency Management Agency

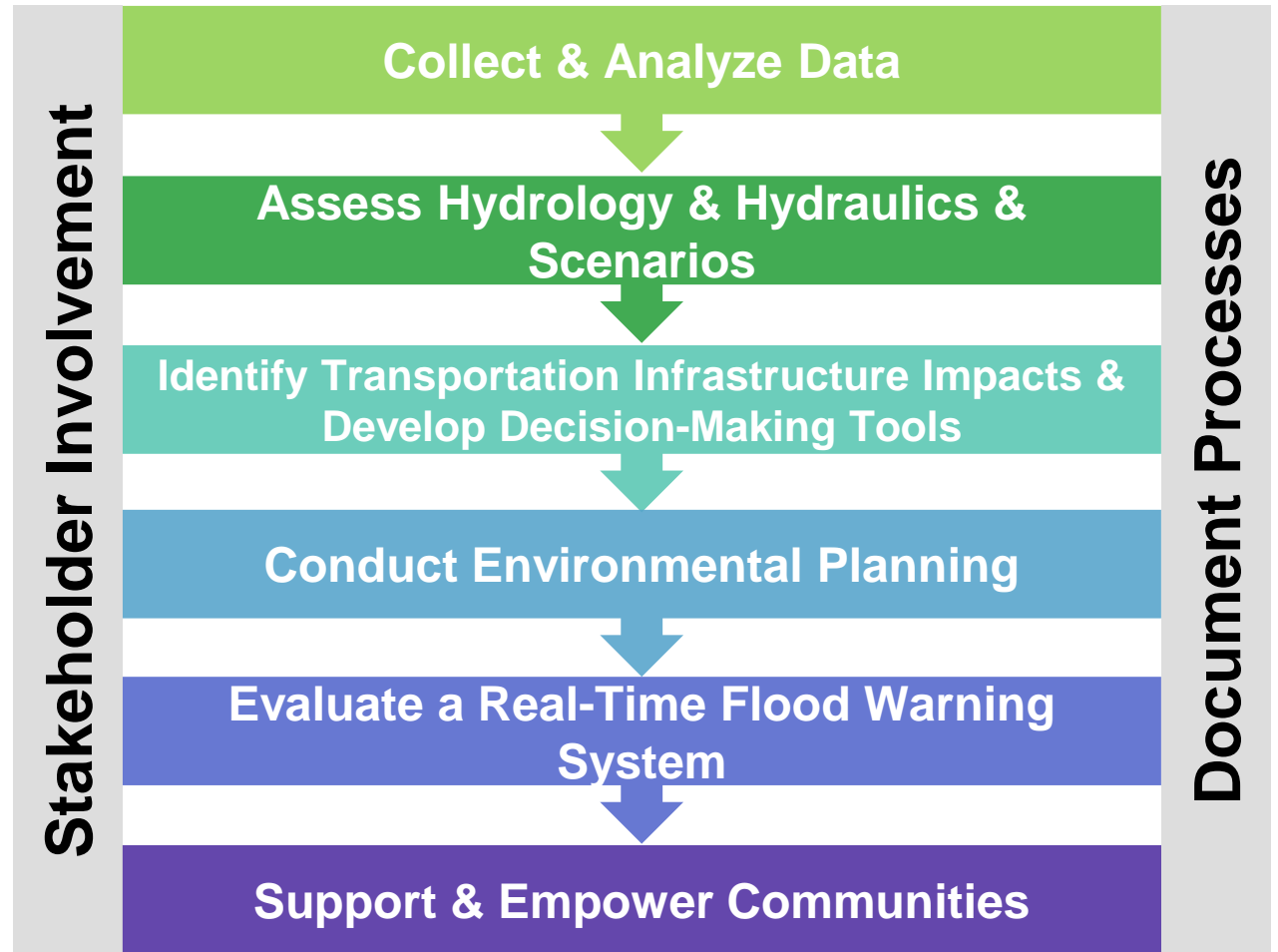
Project Background

Integrating Transportation and Stormwater Infrastructure (TSI), continued

The purpose of the TSI project is proactive vs. reactive integration of regional stormwater management, urban development, transportation, and environmental planning in the rapidly developing study area.

Goals & Outcomes:

- Integrate stormwater management, urban development, transportation, and environmental planning.
- Develop plan for risk awareness and resiliency.
- Identify impacts and alleviate risks from flooding.



Hydrologic and Hydraulic Services

Background and Scope of Work

Background

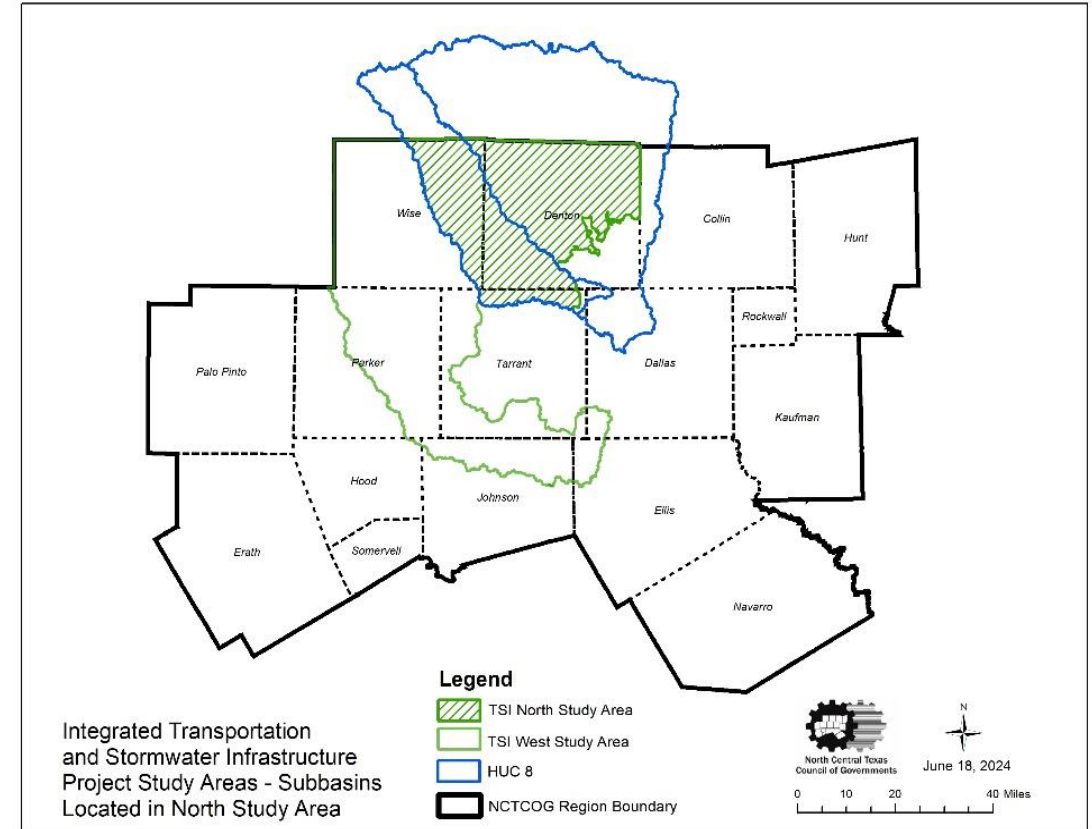
- Hydrologic Analyses
- Hydraulic Analyses
- Support for Planning to Integrate Transportation and Stormwater Infrastructure
- Documentation
- Project Management
- Stakeholder Engagement (Option Scope #2)

NCTCOG will provide the foundational hydrologic and hydraulic datasets needed to complete these tasks, including the Interagency Flood Risk Management (InFRM) Watershed Hydrology Assessment and Base Level Engineering models, current/future land use information, hydraulic structure data, and other relevant information.

Scope of Work & Study Area

The selected consultant will replicate hydrologic and hydraulic methods and scripts developed by the US Army Corps of Engineers and University of Texas at Arlington to apply analyses to the TSI North Study Area for multiple scenarios and recurrence intervals. The consultant will help enhance hydrologic model output and add detail to hydraulic models.

If the option scope #2 is awarded, the consultant will meet with stakeholders and provide content for online tools to communicate project outcomes.

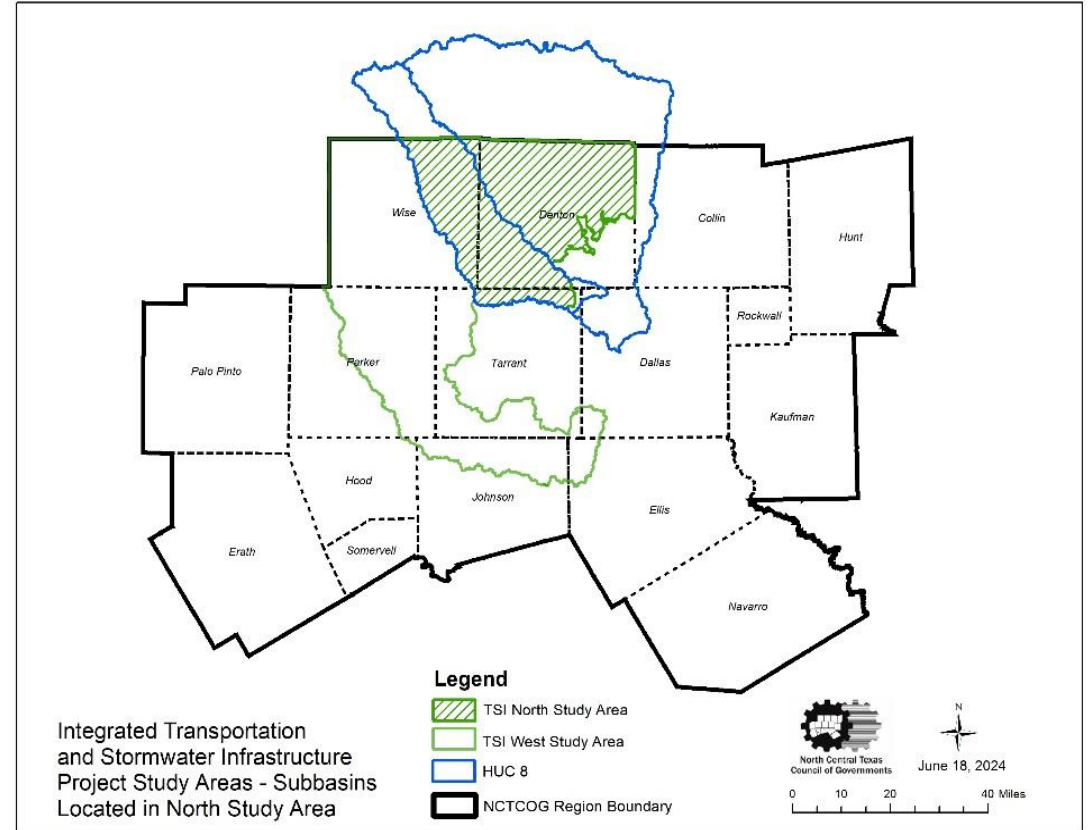



Scope of Work & Study Area, continued

The consultant also will provide support to analyses related to the vulnerability of transportation facilities, proposed nature-based solutions and green stormwater infrastructure, real-time flood warning systems, non-regulatory flood maps, and potential project alternatives related to regional flood planning.

The consultant will document their processes and provide quality assurance and quality control.


Funding is via deliverable-based reimbursement.



An aerial photograph of a residential neighborhood. A river flows through the center, with a bridge crossing it. The surrounding area is densely packed with houses and streets. A large blue speech bubble is positioned at the top, pointing towards the bridge. Another blue speech bubble is at the bottom left, pointing towards a building. A third blue speech bubble is at the bottom right, pointing towards the river. A fourth blue speech bubble is on the right side, pointing towards an inset image of an electrical substation. The text 'Evergreen Structures, LLC Evergreen Structures - Engineering' is overlaid on the image near the center-left.

How long and high should this bridge be?

How will this business be impacted by flooding?

A close-up aerial view of an electrical substation. It features several large, rectangular metal enclosures and a network of power lines. The substation is situated in a residential area, with houses and streets visible in the background. A blue speech bubble points from the substation to the main image.

What is a safe elevation for this electrical substation?

How will extreme storms affect this neighborhood?

Evergreen Structures, LLC
Evergreen Structures - Engineering

Questions?

Transportation Planning Services

Background and Scope of Work

Background Transportation Planning Services

- Assessing Flood Risks for Transportation Facilities
- Identifying Relevant Transportation Regulatory, Decision-Making, and Flood Resiliency Tools/Resources
- Identifying Planning-Level Specifications for Ideal Sizing and Location of Integrated Transportation/Stormwater Infrastructure
- Documentation
- Project Management
- Stakeholder Engagement

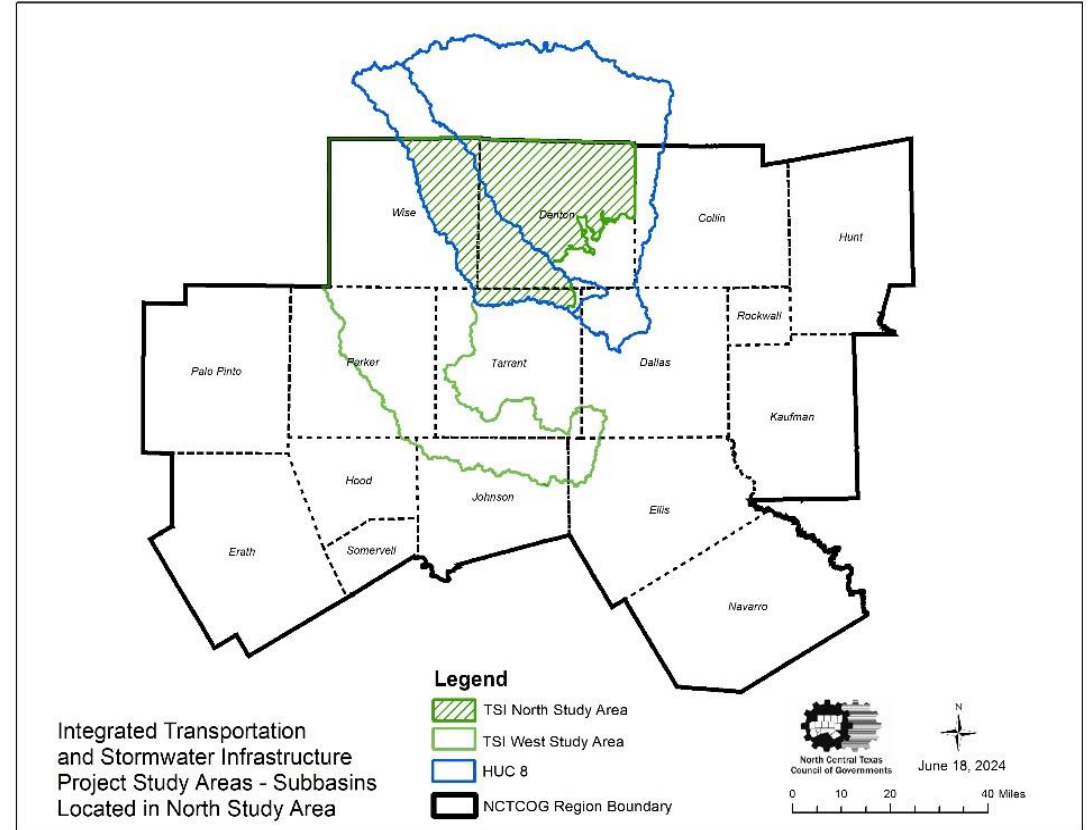
NCTCOG will provide the transportation planning datasets needed to complete these tasks, including current/future land use information, transportation facility material/structural data, current/future transportation asset flood risk maps, and other relevant information.

Scope of Work & Study Area

The consultant will provide support to analyses related to the vulnerability of transportation facilities, proposed nature-based solutions and green stormwater infrastructure, and potential project alternatives related to regional flood planning.

The consultant will document their processes and provide quality assurance and quality control.

Funding is via deliverable-based reimbursement.



Questions?

Consultant Selection Criteria – H&H/Transportation Planning Services

Project Understanding	30%
Scope of Services	25%
Qualification of Project Manager and Staff	20%
Knowledge of the Dallas-Fort Worth Area	10%
Firm Qualifications/Consultant References	10%
Schedule	5%

HUB Participation Goal: 23.7%

Environmental Economics Services

Background and Scope of Work

Background

- Data Collection and Analyses
- Stakeholder Engagement
- Environmental Planning and Economic Considerations
- Documentation
- Project Management

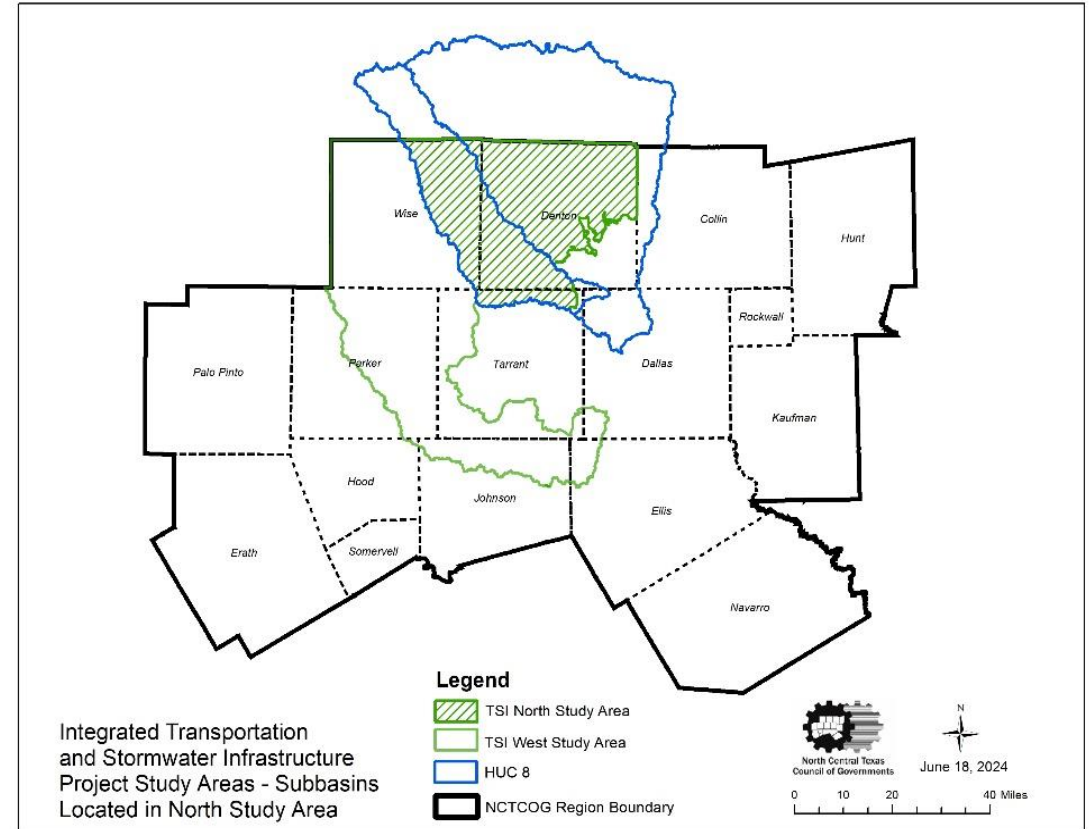
Tasks specific to environmental economics will demonstrate the feasibility and return-on-investment of integrating transportation, environmental, and stormwater infrastructure planning to mitigate flood risk. Data to support these tasks include data gathered by the selected consultant and data shared by project partners.

Scope of Work & Study Area

Tasks include

- Conducting a literature review of environmental and economic conditions in the TSI North Study Area
- Providing environmental economics information for public outreach documents and presentations
- Developing cost-benefit and return-on-investment analyses for green stormwater infrastructure and other flood mitigation;
- Gathering information on land availability and property statistics
- Conducting statistical analyses
- Providing content for a Replication Report and Final Plan
- Project management

Funding is via deliverable-based reimbursement.



Consultant Selection Criteria – Environmental Economics

Project Understanding	25%
Scope of Services	25%
Qualification of Project Manager and Staff	20%
Project Cost	15%
Firm Qualifications/Consultant References	10%
Schedule	5%

HUB Participation Goal: 23.7%

RFP Schedule

RFP Published	July 12, 2024
Questions Due	July 19, 2024
Pre-Proposal Meeting	July 23, 2024
Response to Questions	July 24, 2024
Proposals Due	August 9, 2024
Interviews (if needed)	Week of August 26, 2024
Negotiations	September – October 2024
Executive Board (Contract Awards)	October 24, 2024
Contract Execution	October 2024

Questions?

Responses to questions will be posted on
July 24, 2024, at www.nctcog.org/rfp