



IH 45 Program (BRY-45)

Bryan District

General Engineering Consultant (GEC)
Summary of Responsibilities

November 9, 2023

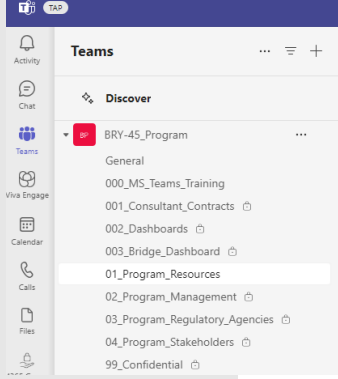


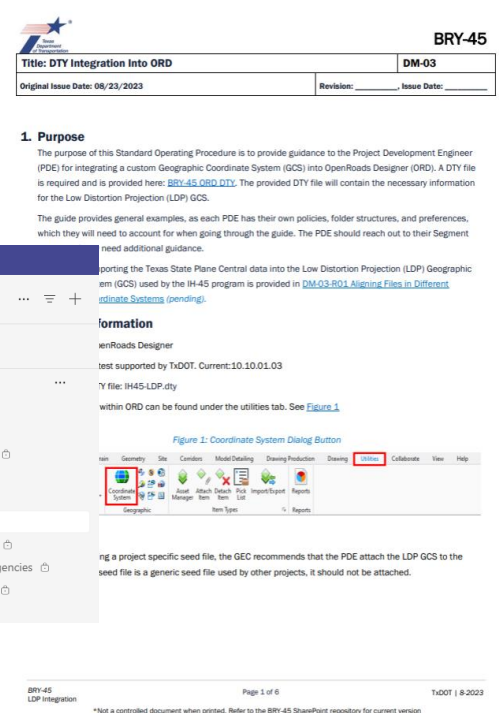
- I. Acronyms and Definitions
 - A. BRY-45 – Bryan District IH 45 Corridor program
 - B. BRY – Texas Department of Transportation Bryan District
 - C. GEC - General Engineering Consultant which includes AtkinsRéalis and its subconsultants
 - D. IAJR – Interstate Access Justification report
 - E. LDP – Low Distortion Projection which is a custom map projection being used on BRY-45
 - F. PDE - Project Development Engineer who is responsible for delivering a specific project(s) on BRY-45
 - G. Segment – specific section of IH 45 in BRY-45 depicted on the BRY-45 Segment Map
 - H. SM – Segment Manager who is a member of GEC staff, acting as “de facto” TxDOT Project Manager
 - I. SME - Subject Matter Expert: Members of BRY and GEC who provide technical discipline expertise and coordination between TxDOT, GEC, and PDE teams.

BRY-45 Program - Summary of GEC Responsibilities



- II. Program Management
 - A. Program Management Plan
 - B. Program Quality Management Plan
 - C. Standard Operating Procedures
 - D. Safety Field Work Procedures
 - E. Program specific design criteria and submittal checklists
 - F. Document Control via program Microsoft (MS) Teams and SharePoint sites
 - G. Program schedule
 - H. Budget and schedule dashboards
 - I. Review of Project Development Engineers' invoices and budget tracking
 - J. Program level cost estimates
 - K. Provide training for tools such as Microsoft applications, Bluebeam, iTwin and training for invoice submittals
 - L. General Project Development Engineer (PDE) contract management and oversight






BRY-45 Program - Summary of GEC Responsibilities



III. Program Coordination

- A. Project oversight and supervision of PDEs
- B. Host the Project specific MS Teams and SharePoint sites
- C. Manage the Project Development Engineers' deliverable submittal process
- D. Setup program and project meetings and manage OneNote notebooks
- E. Bryan District Subject Matter Expert (SME) coordination
- F. Assist BRY with Department and stakeholder coordination
- G. Permitting and developer request coordination
- H. TxDOTCONNECT updates

 Davis, Sarah 11:29 AM New

BRY-45_S03_Submittal_0002

This post is informing S03 of a newly approved PDE submittal. Project Controls has copied the submittal files into the appropriate CSJ channel for collaboration. Please click the link below to view all information regarding this submittal item.

[Link To Submittal Item](#)

Submittal No.: 0002

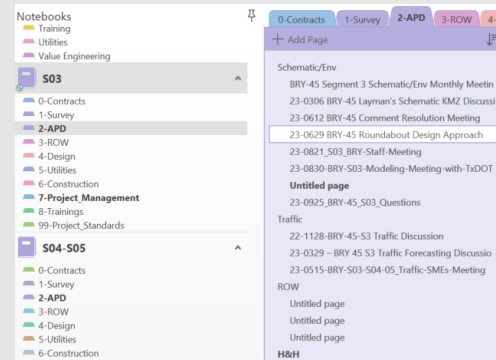
Submitted By: Cassandra Walloff

CSJ: 0675-06-105

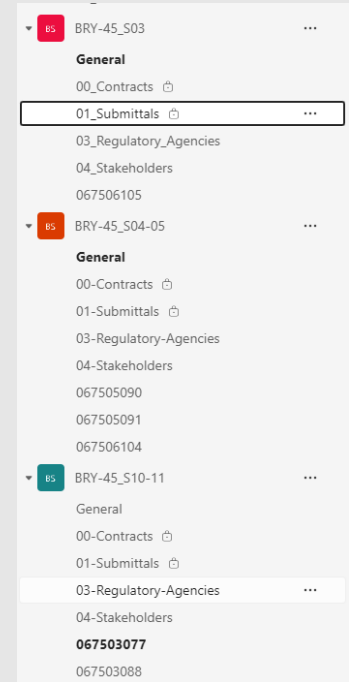
Dept-Division: BRY-04-Design

SCHM Submittal (if applicable): Engineering Summary Report

PS&E Submittal (if applicable):



The screenshot shows a OneNote notebook with a sidebar on the left containing a list of submittals. The main area displays a detailed view of a submittal, including a title, a description, and a list of submittal items. The submittal items are listed in a table with columns for the submittal number, the submittal title, and the submittal date.



The screenshot shows a SharePoint site with a list of submittals. The list includes columns for the submittal number, the submittal title, and the submittal date. The submittal items are listed in a table with columns for the submittal number, the submittal title, and the submittal date.

BRY-45 Program - Summary of GEC Responsibilities



- IV. Preliminary Engineering
 - A. Schematic engineering oversight, guidance, coordination and review
 - B. Design exception review
 - C. Constructability review
 - D. Cost estimate review
 - E. IAJR document development and coordination
 - F. Oversight and review of PDE developed traffic and safety analyses and projections (Option-C)
 - G. Host Bluebeam and iTwin reviews for milestone submittal reviews and non-milestone reviews as-needed
 - H. SME coordination between TxDOT, GEC, and PDE SMEs
 - I. Financial Plan development



BRY-45 – Schematic Layout Checklist

Submittal Stage Submittal

CSJ(s) Click or tap here to enter text.
HWY Click or tap here to enter text.
County Click or tap here to enter text.
Segment Click or tap here to enter text.

CSJ(s) Click or tap here to enter text.
HWY Click or tap here to enter text.
County Click or tap here to enter text.
Segment Click or tap here to enter text.

Designer (DESIR): Click or tap here to enter text.
Date: Click or tap to enter a date.
Design Technician (TECH): Click or tap here to enter text.
Date: Click or tap to enter a date.

Reviewer (REVR): Click or tap here to enter text.
Date: Click or tap to enter a date.
QA Reviewer (QA): Click or tap here to enter text.
Date: Click or tap to enter a date.

Associated Checklist Materials may be found [here](#).

Link to DESIR Folder: [may be found here](#).

Review Stages Required for this project:	Preliminary Schematic (Draft)	Preliminary Schematic (Final)	Geometric Schematic (Draft)	Geometric Schematic (Final)
Date Review Completed for each stage:				

Has TxDOT's 3D Model Completeness Checklist been filled out:
A copy of the 3D Model Completeness Checklist must be attached to this checklist when submitted.

YES ☐ NO ☐

REVIEW REQUIREMENTS

REQUIREMENTS	N/A	DESIR	TECH	REVR	QA	COMMENTS
For Preliminary Schematic (Draft) Review:						
Verify title block at both ends of each schematic set.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Verify from "Texas Department of Transportation" is shown.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Verify TxDOT logo and copyright (Texas Department of Transportation 2020) is shown.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

BRY-45_20231210_Preliminary Layout Checklist



V. Environmental

- A. Oversight and review of PDE developed environmental documents
- B. Environmental document support services required for environmental clearance
- C. NEPA Public Involvement Oversight
- D. Input of project segment information into Environmental Compliance Oversight System (ECOS)
- E. Conduct and facilitate Value Engineering studies

VI. Public Information

- A. Oversight of Public Involvement and Information activities
- B. Development of Program Public Involvement Plan for project development
- C. Development of Program-wide communications plan
- D. Coordination of Program and Project websites
- E. Provide Program hotline number, call log and call tracking

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Bryan District I-45 Corridor Program

Purpose

The purpose of the program is to improve safety and mobility along I-45 in Bryan District in Walker, Madison, Leon and Freestone counties.

Proposed improvements

- Adding one mainlane in each direction.
- Converting two-way frontage roads to one-way frontage roads in communities.
- Improving interchanges (including the use of innovative intersections).
- Enhancing bicycle and pedestrian accommodation.
- Updating the roadway to current design standards.

Get involved

Studies for the Bryan District I-45 Corridor Program are in the early phase. Public involvement will be continuous throughout project development. Future dates and locations for public meetings and hearings will be listed on the website as they are scheduled.

Downloads

- [Program Fact Sheet](#)
- [Program Location Map](#)
- [Frequently Asked Questions](#)

Contact us

Email: TxDOT.Bryan@txdot.org
Phone: [936-209-4174](tel:936-209-4174)

Contact for media

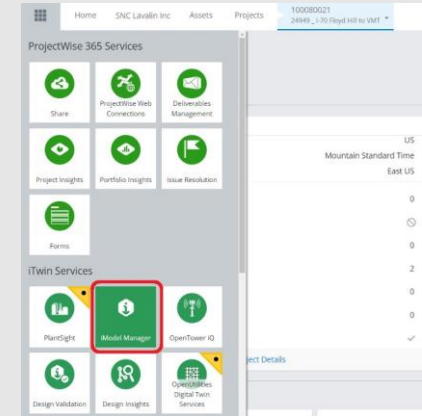
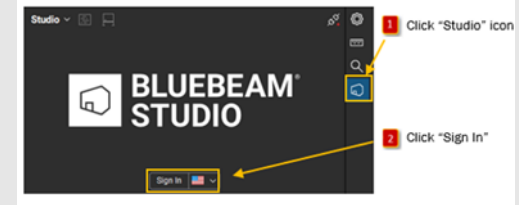
Email: Bob.Coburn@txdot.org
Phone: [979-778-9764](tel:979-778-9764)

I-45 Bryan District Project Map



VII. PS&E Development

- A. PS&E oversight, coordination and review
- B. Constructability reviews
- C. Design review coordination and tracking including hosting Bluebeam and iTwin reviews for milestone submittal reviews and non-milestone reviews as needed
- D. Cost estimate review
- E. Ready-to-let status tracking and coordination
- F. Project commitments tracking and coordination



BRY-45 Program - Summary of GEC Responsibilities



VIII. Survey


- A. Pre-flight surveying – completed
- B. Coordination with TxDOT Photogrammetry
- C. Segment survey control – complete but to be supplemented as needed by PDEs
- D. Field survey support including review and coordination of Terrestrial Survey by PDEs
- E. Support for IH 45 Low Distortion Projection (LDP) implementation

IX. Right-of-Way

- A. Review and coordination of PDE ROW submittals
- B. Review of access management requests

X. Utilities

- A. Oversight, coordination and review of PDE utility engineering investigation (UEI, formerly SUE) and PDE utility design
- B. Supplemental utility engineering investigation, verification and coordination during construction
- C. Utility agreement and permit review

 Form BRY-45-01-0001
Replaces Form BRY-45-01-0001
Page 1 of 13

Bryan District Right of Way Map Checklist for Submittal Review

TxDOTCONNECT ROW Project No.: [REDACTED]
RCS: [REDACTED]
CCSF: [REDACTED]
Limits: [REDACTED]
Date Reviewed: [REDACTED]

Highway: [REDACTED]
County: [REDACTED]
By: [REDACTED]

A. General Requirements

- 1. ☐ All map sheets are legible. Graphics and text must not overlap or be faded, light, dark, bolded, or fuzzy.
- 2. ☐ All maps plotted on 11"x17" map sheets with half-inch borders (in pdf format)
- 3. ☐ All map borders are a minimum of 1/2" with 1/4" margin on left
- 4. ☐ Drawings plotted in pdf format at 1" to 100' scale on 11"x17" sheets (Alternate scales require prior district approval).
- 5. ☐ Clear space (2") between match lines and borders
- 6. ☐ Text size and fonts are legible on 11"x17" sheets on all plots and use text style "2_Emphasis_Eng_Vert" which equates to font style of Engineering Vert and text size of 7.8 at 1" to 100' scale on 11"x17" sheets.
- 7. ☐ Graphic files are in current MicroStation/ORD format; text files are in ASCII, text format
- 8. ☐ Graphic files conform to TxDOT's level menu
- 9. ☐ Use TxDOT's cell library for conventional signs, legends, and symbology. Currently: TX_Survey.cel
- 10. ☐ Show zero place holders in bearing for clarity (e.g., N 01°02'03"W)
- 11. ☐ The decimal places for the acquisition acreage are:
 - Four (4) decimal places for less than one (1) acre
 - Three (3) decimal places for one (1) acre or more
- 12. ☐ Area to be purchased by TxDOT is referred to as a Parcel. Area to be sold by TxDOT is referred to as a Tract.
- 13. ☐ Utility easements shown. Refer to [BRY-45 ROW-01 Standard Operating Procedures](#) for utility specific easement requirements.

B. Metadata/Notes

- 1. ☐ The basis of bearing shall be "Grid North"
- 2. ☐ Geographic Coordinate System: [Please Select GCS and Hit Tab Key](#)
[REDACTED]

Notes: The TxDOT IH 45 Low Distortion Projection (LDP) is required for BRY-45. For other projects, LDP may be used with prior approval.
For projects that use the Texas Coordinate System Central Zone, the combined adjustment factor must be entered in the box above.

- 3. ☐ Parameters are included as follows:
- 4. ☐ North American Vertical Datum 88 (NAVD 88) GEOID [REDACTED] (e.g., GEOID18) (if applicable)