



TECHNICAL ADVISORY COMMITTEE (TAC) REGULAR MEETING AGENDA

TAC MEETING WILL BE CONVENED VIRTUALLY

Thursday, January 21, 2021 - 9:00 a.m.

*Due to the evolving COVID-19 situation and in consideration of the health and welfare of the community, this meeting will be held remotely via Microsoft TEAMS. The public is invited to participate in this TAC meeting virtually. To do so, please send an email request to ccmpo@cctxmpo.us, a TEAMS INVITE will be sent to your email address the morning of the meeting.
See Virtual Meeting Instructions on page 2 of this agenda.*

1. Call to Order, Roll Call, and Quorum Determination

2. Election of Officers for the Technical Advisory Committee

The Corpus Christi MPO Bylaws and Operating Procedures (Chapter IV) indicate that the Technical Advisory Committee (TAC) shall elect a Chairperson and a Vice Chairperson from among its voting members during the first meeting of each calendar year. Such election shall be by a majority vote of that voting membership. The excerpt from the Bylaws and Procedures of the Corpus Christi MPO regarding the TAC officers is provided as an attachment. ☒

3. Public Comments for Items not on the Agenda:

Opportunity for public comments for any items on OR not on the Agenda and within the TAC's jurisdiction (except in matters related to pending litigation).

Public Comments may also be provided in writing, limited to 1,000 characters, by emailing ccmpo@cctxmpo.us or by regular mail or hand-delivery to the Corpus Christi MPO offices at 602 N. Staples St., Suite 300, Corpus Christi, TX 78401, and MUST be submitted no later than 5 minutes after the start of a meeting in order to be provided for consideration and review at the meeting. All Public Comments submitted shall be placed into the record of the meeting.

THESE WRITTEN COMMENTS SHALL SERVE AS THE REQUIRED PUBLIC TESTIMONY PURSUANT TO TEXAS GOVERNMENT CODE 551.007 AND SHALL CONSTITUTE PUBLIC TESTIMONY FOR ANY OTHER PURPOSES UNDER LAW.

4. APPROVAL OF THE NOVEMBER 19, 2020 TAC REGULAR MEETING MINUTES ☒

5. DISCUSSION AND POSSIBLE ACTION ITEM

A. FY 2021-2024 Transportation Improvement Program (TIP) Amendment 1 ☒

Action: Review, Discuss and Recommend Release by the Transportation Policy Committee for the 30-day Public Comment Period.

6. INFORMATION ONLY ITEM

A. MPO offices will be closed Monday, January 18, in observance of Martin Luther King Day.

7. REGIONAL FREIGHT TOPIC


A. Freight pages of Texas Transportation Plan (TTP) 2050 ☒

8. Member Agency Statements for Items of Community Interest: Upcoming events, holidays, or acknowledgements.

9. Upcoming Meetings:

| | | |
|-------------------------------------|------------------|-----------------------|
| A. Transportation Policy Committee: | Regular Meeting: | February 4 or 5, 2021 |
| B. Technical Advisory Committee: | Regular Meeting: | February 18, 2021 |

10. Adjourn

 - Indicates attachment(s) for the agenda item.

VIRTUAL MEETING INSTRUCTIONS

If you have been invited to the Corpus Christi MPO TAC Microsoft TEAMS meeting and don't have a TEAMS or Office 365 account, you can join easily join as a Guest. Here is how:

1. Check your email for the TEAMS Meeting invite and click the Join Microsoft TEAMS Meeting link.
2. Open TEAMS on the web or download the program.
3. Enter your name and choose your audio and video settings.
4. Click the Join Now button to be admitted into the meeting.

Chapter IV
BYLAWS AND OPERATING PROCEDURES OF THE
TECHNICAL ADVISORY COMMITTEE

Organization:

1. The Technical Advisory Committee shall elect a Chairperson and a Vice Chairperson from among its voting members. Such election shall be by a majority vote of that voting membership.
2. Elections shall take place on the first month of the calendar year.

Duties of the Chairperson:

1. The Chairperson shall preside at all meetings of the Technical Advisory Committee. During the absence of the Chairperson, the Vice Chairperson shall preside over meetings and shall exercise all the duties of the Chairperson.
2. The Chairperson shall authenticate, by signature, all resolutions adopted by the Technical Advisory Committee.
3. The Chairperson shall represent the committee at hearings, conferences, and other events as required or designate another member of the Committee to represent the Chairperson.
4. During the absence or disability of the Chairperson, or in the event that a vacancy occurs in the office of the Chairperson, the Vice Chairperson shall preside over meetings of the Committee and shall exercise all of the duties of the Chairperson.

**CORPUS CHRISTI METROPOLITAN PLANNING ORGANIZATION (MPO)
TECHNICAL ADVISORY COMMITTEE (TAC) MEETING MINUTES
Thursday, November 19, 2020**

1. Call to Order, Roll Call, and Quorum Determination

Mr. Brian DeLatte called the meeting to order at 9:02 A.M.

TAC Members Present:

Brian DeLatte, P.E., City of Portland
Paula Sales-Evans, P.E., TxDOT – Corpus Christi District
Jeff Pollack, AICP, Port of Corpus Christi Authority
Juan Pimentel, P.E., Nueces County
Dan McGinn, AICP, City of Corpus Christi

MPO Staff Present: Robert MacDonald, P.E.; Craig Casper, AICP; Victor Mendieta; and Yoshiko Boulan

2. Public Comments for Items not on the Agenda

None were offered.

3. APPROVAL OF THE OCTOBER 15, 2020 TAC REGULAR MEETING MINUTES

Ms. Sales-Evans made a motion to approve the October 15, 2020 TAC Meeting Minutes. Mr. Pollack seconded; motion passed unanimously.

4. DISCUSSION AND POSSIBLE ACTION

A. Process Debrief for the 2045 MTP, FY 2021-2024 TIP and CMP Survey

Mr. Casper followed up on the 2045 MTP, FY 2021-2024 TIP and CMP Survey for revisiting and reexamining planning processes. The survey was distributed to the TAC members last week. He reported that not everyone has completed the survey and asked those that hadn't to please finish it. Mr. Casper asked the TAC members if the questions cover all necessary topics and aspects of these planning document development and if there are any questions or suggestions on overall survey structure.

The TAC members suggested that the scale/range answer format should be included with free space for comments.

Mr. Casper stated that he will modify the survey format and send the revised one to the TAC members. He requested the TAC members to review, comment, and fill it out and submit.

5. INFORMATION ONLY ITEM

A. TxDOT Update on 2022 Unified Transportation Program (UTP) Development

Ms. Sales-Evans, TxDOT Corpus Christi District, briefed the TAC members on the development of the 2022 UTP. She reported two issues are at work to reduce funds available for projects. Due to the current economic circumstances associated with COVID-19 pandemic, tax revenues are reduced. This requires the TxDOT Districts and the Texas MPOs to adjust the FY 2021-2024 S/TIP accordingly. The second is that the 2022 UTP must include additional costs such as inflation, contingencies, etc., for more accurate funding estimate for project delivery. As a result of these two issues, it is very unlikely that any projects will be added to the 2022 UTP. It may also be necessary to adjust project funding in the 2022 UTP to account for this reduction in funds. Mr. Casper clarified the difference between project phasing and project segmenting. Current phases are Environmental, Design, Right-of-Way, and Construction. Segments are changes in the project termini.

The 2022 UTP call for projects has been open since October 23, 2020 and anticipated to be closed in January 2021. The Corpus Christi MPO needs to revisit and confirm the priority of projects and update the estimated project costs with the additional inflationary, contingency and current estimated construction costs.

The TAC members stated that the projects priorities were thoroughly discussed when the Corpus Christi MPO developed the 2045 MTP and FY 2021-2024 TIP, and suggested to discuss the order with the new estimated project costs and make the program fiscally constrained with scope changes, segmentation, and so forth.

The Corpus Christi MPO will set up the workshop/meeting and inform the TAC members.

B. Member Agency Project Updates

Mr. MacDonald requested the partner agency representatives provide the current status of projects as discussed in October TAC meeting. The 2045 MTP and FY 2021-2024 TIP should include all regionally significant transportation projects regardless of the funding source and the Corpus Christi MPO is striving to cover all regionally significant transportation projects including those at the Port Authority, CCRTA, CCIA, Corpus Christi's Bond projects, City of Portland CIP projects and so forth. The agenda packet included an all-projects list and each sponsor agency is requested to update their listed projects before or after the TAC meeting. This will be a routine opportunity provided to the TAC at each of their monthly meetings. The Corpus Christi MPO appreciated the cooperation of partner agencies and also requested TAC members to submit the transportation projects not currently included in the MTP, TIP and CMP lists.

6. REGIONAL FREIGHT TOPIC

A. 2022-2023 Texas Port Mission Plan

The TAC serves as a Freight Advisory Committee and various freight topics are discussed every month. Mr. MacDonald provided the link of 2022-2023 Texas Port Mission Plan as an information item for TAC members.

A. TxDOT Freight Strategic Planning Workshop

A TxDOT Freight Strategic Planning Workshop was conducted on November 17, 2020 and this information was provided for the TAC members as an opportunity to participate in that virtual meeting.

7. Member Agency Statements for Items of Community Interest: Upcoming events, holidays, or acknowledgements

Mr. McGinn provided updated information on the City of Corpus Christi's projects including the Northwest Boulevard Corridor.

Mr. DeLatte updated on the City of Portland's Capital Improvement Projects.

Mr. MacDonald mentioned the MPO team will look at hosting the December meeting remotely.

8. Upcoming Meetings:

| | | |
|--|-------------------------|--------------------------|
| A. Transportation Policy Committee: | Regular Meeting: | December 3, 2020 |
| B. Technical Advisory Committee: | Regular Meeting: | December 17, 2020 |

9. Adjourn

The meeting adjourned at 10:13 A.M.



Date: January 15, 2021
To: Technical Advisory Committee (TAC)
From: Robert MacDonald, Transportation Planning Director
Subject: Item 5A: FY 2021-2024 Transportation Improvement Program (TIP)
Amendment 1
Action: Review, Discuss and Recommend Release for the 30-day Public Comment Period

Summary

The proposed Amendment 1 to the FY 2021-2024 TIP is presented to the TAC for review, discussion and recommendation to the Transportation Policy Committee (TPC). In order to maintain fiscal constraint, the FY 2021-2024 TIP Amendment 1 contains the following proposed changes:

- **Remove** four projects totaling approximately \$143 million from the adopted FY 2021-2024 TIP:
 - MPO-005: SH 286 (Crosstown) – Extend 4-lane divided freeway by constructing main-lanes, overpass and frontage road from FM 43 (Weber Road) to south of FM 2444 (Staples Street) \$46.29 million. CAT 2.
 - MPO-017: SH 361 – Upgrade/add direct connectors at SH 35 Interchange to 0.6 miles Southeast on SH 361. \$46.20 million. CAT 2.
 - MPO-018: SH 35 – Upgrade/add direct connectors from FM 3284 to 0.23 miles North of SH 361. \$25.80 million. CAT 4U.
 - MPO-016: PR 22 – Corridor upgrade for pedestrian and access management improvements without adding capacity. \$19.2 million. CAT 2.
 - TxDOT-002: I-37 – Widen Freeway from the Nueces River to the IH 37/US 77 Interchange. \$22.0 million. CAT 2.
- **Confirm** the inclusion of one TASA/Category 9 Project
 - MPO-065: Portland Memorial Pkwy H/B – Construct Hike and Bike Trail (funded in 2018 dollars) on Memorial Pkwy from FM 2986 (Wildcat Dr.) to Billy G. Webb Dr. \$0.34 million. CAT 9.
- **Consider** not listing two projects currently included in FY 2021 from the project list as these were let by TxDOT in November 2020:
 - MPO-003: US 181 – Widen freeway by constructing 1 additional travel lane in each direction from North of FM 3239 (Buddy Ganem Drive) to FM 2986 (Wildcat Drive). \$14.0 million. CAT 2 and 4U.
 - MPO-004: US 181 Ramp Reversals – Reverse entrance and exit ramps in Northbound direction from North of FM 3239 (Buddy Ganem Drive) to FM 2986 (Wildcat Drive). \$4.0 million. CAT 2.

These projects are highlighted for discussion in the proposed FY 2021-2024 Amendment 1 Fiscally Constrained Project Tables 13a and 13b as illustrated in Attachment 1. The DRAFT TxDOT FY 2021-2024

STIP project list for the Corpus Christi MPO is provided in Attachment 2. TxDOT staff will be updating this document prior to the January 21st TAC meeting. A revised version of Attachment 2 will be sent to TAC.

The public notice #21-1 related to the DRAFT FY 2021-2024 TIP Amendment 1 is provided for the TAC to review. (See Attachment 3).

Recommendation

MPO staff requests that the TAC review the DRAFT FY 2021-2024 TIP Amendment 1 list of projects and recommend to the TPC whether or not the FY 2021-2024 TIP Amendment 1 is ready for release to the public for the 30-day public comment period.

Proposed Motion

Move to recommend the TPC release the DRAFT FY 2021-2024 Transportation Improvement Program (TIP) Amendment 1 for the 30-day public comment period.

Prior Actions for FY 2021-2024 TIP

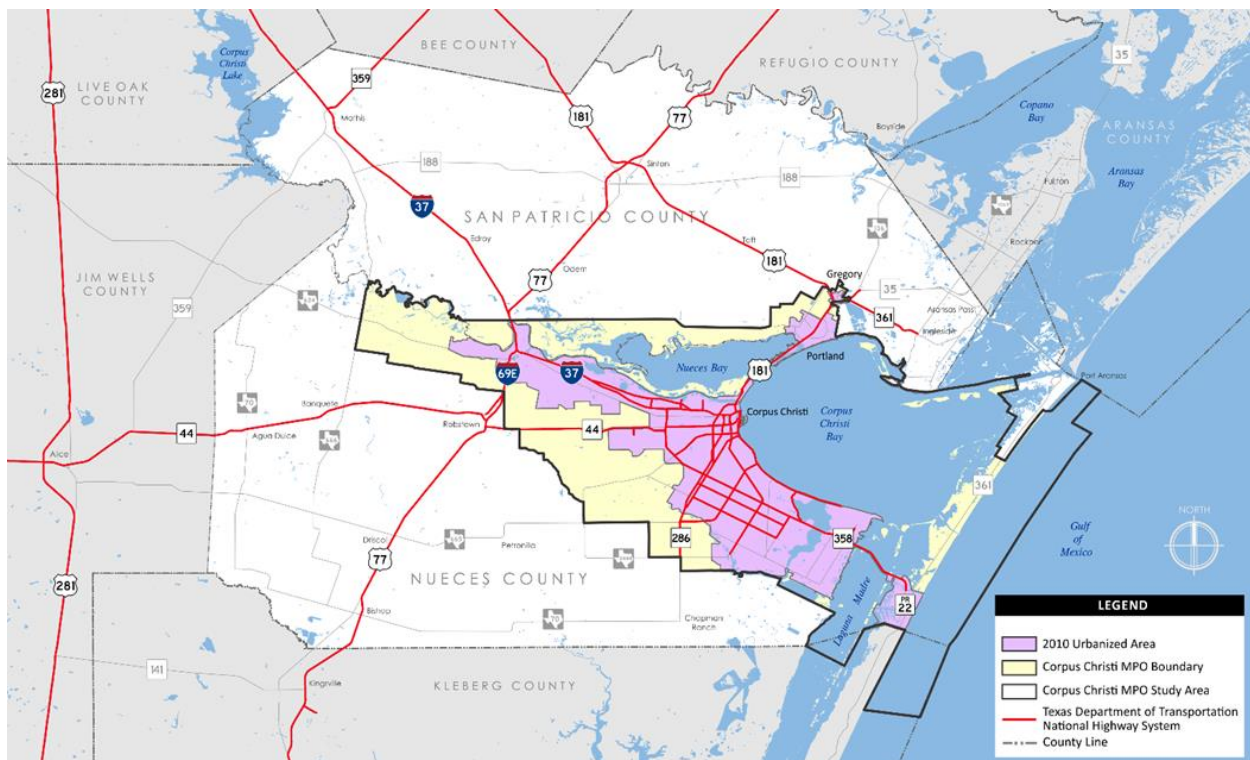
- July 2, 2020: TPC approved FY 2021-2024 TIP
- June 18, 2020: TAC Recommends approval of the FY 2021-2024 TIP

Background

The Transportation Improvement Program (TIP) is prepared in compliance with the Statewide Planning Metropolitan Planning Rules jointly issued by the Federal Highway Administration (FHWA) (23 CFR Part 450) and the Federal Transit Administration (FTA) (49 CFR Part 613). This document is a four-year, fiscally constrained short-range transportation capital improvement plan. Occasionally, amendments to this adopted document are necessary.

The completed documents, tables and appendices of the approved FY 2021-2024 TIP is available on the Corpus Christi MPO website (corpuschristi-mpo.org) for review. The area covered by the Corpus Christi MPO is illustrated below. The DRAFT FY 2021-2024 TIP Amendment 1 is also available on the Corpus Christi MPO website as is the public notice related to this amendment.

Exhibit 1: Map of the Corpus Christi Metropolitan Planning Organization Area



TIP FINANCIAL PLAN

The Fixing America's Surface Transportation (FAST) Act (23 CFR Part 450.326(j)), states that the Transportation Improvement Program (TIP):

"...shall include a financial plan that demonstrates how the approved TIP can be implemented, indicates resources from public and private sources that are reasonably expected to be made available to carry out the TIP, and recommends any additional financing strategies for needed projects and programs."

The TIP Financial Plan is also required to document, under 23 CFR §450.326(j), the ability of the MPO jurisdictions to fund any new projects while also continuing to fund necessary operations and maintenance (O&M) of the existing transportation system. The federal definition means that all roads classified as Local Collector and higher (not residential streets) must have local funds available to "adequately" operate and maintain these non-state (TxDOT) roads. The Corpus Christi MPO TPC must include, in the TIP, assurances that there are sufficient revenues available to municipalities and counties to adequately operate and maintain both highways (as defined by 23 U.S.C. 101(a)(5)) and public transportation (as defined by title 49 U.S.C. Chapter 53) that can achieve the adopted performance goals.

Demonstrating financial constraint of the TIP first requires determining the amount of funds that can be reasonably expected to come to the Corpus Christi MPO, by type and by year, for each potential source. The funding allocations for each fiscal year were taken from the TxDOT apportionments outlined in the 2021 Unified Transportation Programs (UTP). Programming these federal/state funds to projects is guided by the performance measures approved during the 2020-2045 MTP as the long-range planning process. The FAST Act, which will expire before the FY 2021-2024 TIP took effect, included five years of funding authorizations (FY 2016-2020).

The revised financial plan of the FY 2021-2024 TIP through Amendment 1 was developed by the Corpus Christi MPO in cooperation with the Texas Department of Transportation (TxDOT), and the Corpus Christi Regional Transportation Authority (CCRTA). The CCRTA provided recent FTA apportionments and reasonably anticipated discretionary allocations. Local government entities provided preliminary draft budget estimates for FY 2021 and the MPO helped develop a reasonable forecast through year FY 2024. Each funding program is financially balanced against available funds for FY 2021, FY 2022, FY 2023, and FY 2024; shown in Tables 1-3 on pages 16-17 of the approved FY 2021-2024 TIP.

Federal regulations also require that both regional TIPs and the Statewide Transportation Improvement Program (STIP) demonstrate fiscal constraint by including sufficient financial information to confirm that the projects in those documents can be implemented with the revenues that are reasonably available. They must also provide reasonable assurances that the federally supported transportation system is adequately operated and maintained.

Attachments:

1. DRAFT FY 2021-2024 TIP Amendment 1 Fiscally Constrained Project List (Revised Tables 13a and 13b)
2. DRAFT TxDOT FY 2021-2024 STIP Project Listing with Corpus Christi MPO Amendment 1
3. Public Notice #21-1

DRAFT FY 2021-2024 TIP Amendment 1
Fiscally Constrained Project List (Revised Tables 13a and 13b)

Table 13a. FY 2021-2024 TIP Fiscally Constrained Project List

| TIP Fiscal Year | CSJ | Project ID | Project Name | Project Phase | Description | From Limit | To Limit | Sponsor | TxDOT System | Funding Category | Construction Cost (\$, millions) | CAT2 | CAT4 | CAT7 | CAT9 | CAT12 | Local/Other | Prior Funding | Total Project Cost (\$, millions) |
|-----------------|-------------|------------|---|------------------------------------|--|--|---------------------------------------|------------------------|--------------|------------------|----------------------------------|---------|---------|---------|--------|---------|-------------|---------------|-----------------------------------|
| 2021 | 0617-01-177 | MPO-001 | SH 358 (SPID) Ramp Reversal | NEPA, ROW, Design, or Construction | Ramp reversal Phase II-B | Nile Drive | Staples Street | TxDOT-CRP | On | 2 | \$35.00 | \$35.00 | | | | | | | \$45.43 |
| 2021 | 0074-06-241 | MPO-002 | I-37 | NEPA, ROW, Design, or Construction | Widen freeway by constructing additional 2 travel lanes northbound and 1 additional travel lane southbound | Redbird Lane (Overpass) | Nueces River | TxDOT-CRP | On | 2 / 4U / 12 | \$60.00 | \$12.00 | \$15.00 | | | \$33.00 | | | \$77.88 |
| 2021 | 0101-04-120 | MPO-003 | US 181 | NEPA, ROW, Design, or Construction | Widen freeway by constructing 1 additional travel lane in each direction | North of FM 3296 (Buddy Ganem Drive) | FM 2986 (Wildcat Drive) | TxDOT-CRP | On | 2 / 4U | \$14.00 | \$2.00 | \$12.00 | | | | | | \$18.17 |
| 2021 | 0101-04-114 | MPO-004 | US 181 Ramp Reversals | NEPA, ROW, Design, or Construction | Reverse entrance and exit ramps in Northbound direction | FM 3296 (Buddy Ganem Drive) | FM 2986 (Wildcat Drive) | TxDOT-CRP | On | 2 | \$4.00 | \$4.00 | | | | | | | \$5.19 |
| 10-Year Plan | 0326-01-056 | MPO-005 | SH 286 (Crosstown) | NEPA, ROW, Design, or Construction | Extend 4-lane divided freeway by constructing mainlanes, overpasses, and frontage roads | FM 43 (Weber Road) | South of FM 2444 (Staples Street) | TxDOT-CRP | On | 2 | \$40.00 | \$40.00 | | | | | | | \$51.92 |
| 2021 | 1209-01-030 | MPO-006 | FM 893 (Moore Avenue) | NEPA, ROW, Design, or Construction | Upgrade from 2-lane roadway to 5-lane urban roadway by constructing additional 2 lanes and CLTL | CR 3685 (Stark Road) | 0.2 miles West of CR 79 (Gum Hollow) | TxDOT-CRP | On | 2 | \$7.00 | \$7.00 | | | | | | | \$9.09 |
| 2024 | 0916-35-195 | MPO-007 | Harbor Bridge Hike and Bike - Connectivity | NEPA, ROW, Design | Construct pedestrian and bike facilities | On various city streets from Coles High School | Williams Memorial Park | City of Corpus Christi | Off | 7 | \$1.42 | | | \$1.42 | | | | | \$1.84 |
| 2021 | 0101-06-111 | MPO-008 | US 181 Harbor Bridge Voluntary Relocation Program | NEPA, ROW, Design, or Construction | US 181 Harbor Bridge Voluntary Relocation Mitigation Program | N/A | N/A | MPO | Off | 7 / Local / ROW | \$57.30 | | | \$17.30 | | | \$20.00 | \$20.00 | \$57.30 |
| 2024 | 0916-35-196 | MPO-009 | Harbor Bridge Park Improvements | NEPA, ROW, Design | Park mitigation for Harbor Bridge | At various city parks including | Ben Garza, TC Ayers, and new location | City of Corpus Christi | Off | 7 | \$4.80 | | | \$1.30 | | | \$3.50 | | \$6.23 |
| 2021 | 0916-35-219 | MPO-011 | Schanen Ditch Hike and Bike Trail: Phase IV | NEPA, ROW, Design, or Construction | Construct and design Hike and Bike Trail | Killarmet Drive | Holly Road | City of Corpus Christi | Off | 9 | \$0.39 | | | | \$0.39 | | | | \$0.39 |
| 2021 | 0916-35-206 | MPO-012 | Region-wide Bike Boulevard Wayfinding Initiative | NEPA, ROW, Design, or Construction | Designation of bicycle boulevards with pavement markings and signage | Various Locations in Corpus Christi and Portland | N/A | City of Corpus Christi | Off | 9 | \$0.62 | | | | \$0.62 | | | | \$0.62 |
| 2021 | 0916-28-069 | MPO-013 | Portland Bicycle Lanes | NEPA, ROW, Design, or Construction | Construct one way cycle track and buffered bike lanes | At Varioius Locations in Portland | N/A | City of Portland | On | 9 | \$0.36 | | | | \$0.36 | | | | \$0.36 |
| 2021 | N/A | MPO-014 | Dr Hector P Garcia Park Hike & Bike Trail: Phase II | NEPA, ROW, Design, or Construction | Construct & design Hike & Bike Trail | At Garcia on Trojan Dr | Horne Road | City of Corpus Christi | Off | 9 | \$0.70 | | | | \$0.70 | | | | \$0.70 |
| 2024 | 0617-02-073 | MPO-016 | PR 22 | NEPA, ROW, Design, or Construction | Corridor upgrade for pedestrian and access management improvements without adding capacity | Aquarius Street | Whitecap Boulevard | TxDOT-CRP | On | 2 | \$16.00 | \$16.00 | | | | | | | \$19.20 |
| 10-Year Plan | 0180-10-082 | MPO-017 | SH 361 | NEPA, ROW, Design, or Construction | Upgrade/add direct connectors | At SH 35 interchange | 0.6 miles Southeast on SH 361 | TxDOT-CRP | On | 2 | \$38.50 | \$38.50 | | | | | | | \$46.20 |
| 10-Year Plan | 0180-06-118 | MPO-018 | SH 35 | NEPA, ROW, Design, or Construction | Upgrade/add direct connectors | FM 3284 | 0.23 North of SH 361 | TxDOT-CRP | On | 4U | \$21.50 | | \$21.50 | | | | | | \$25.80 |
| 2024 | N/A | MPO-030 | Future Category 9 Projects | NEPA, ROW, Design, or Construction | Projects selected through competitive process | N/A | N/A | TBD | On/Off | 9 | \$2.39 | | | | \$2.39 | | | | \$2.39 |
| 2021 | 0074-05-098 | TxDOT-002 | IH 37 | NEPA, ROW, Design, or Construction | Widen freeway | Nueces River | IH 37/US 77 interchange | TxDOT-CRP | On | 4 | \$22.00 | | \$22.00 | | | | | | \$22.00 |
| 2021 | N/A | CCRTA-036 | FY21 Bus Stop amenities | Transit Maintenance/Operations | Bus Stop amenities | N/A | N/A | Corpus Christi RTA | Off | FTA | \$0.86 | | | | | | \$0.86 | | \$0.86 |
| 2021 | N/A | CCRTA-037 | FY21 Bus Stop Improvements | Transit Maintenance/Operations | Bus Stop Improvements | N/A | N/A | Corpus Christi RTA | Off | FTA | \$1.00 | | | | | | \$1.00 | | \$1.00 |
| 2021 | N/A | CCRTA-038 | FY21 Support/Relief Vehicles | Capital | Support/Relief Vehicles | N/A | N/A | Corpus Christi RTA | Off | FTA | \$0.21 | | | | | | \$0.21 | | \$0.21 |
| 2021 | N/A | CCRTA-039 | FY21 Rolling Stock (All variety of rolling stock) | Capital | Rolling Stock (All variety of rolling stock) | N/A | N/A | Corpus Christi RTA | Off | FTA | \$7.37 | | | | | | \$7.37 | | \$7.37 |
| 2021 | N/A | CCRTA-040 | FY21 Bus Support Equipment and Facilities/Hardware/Software | Transit Maintenance/Operations | Bus Support Equipment and Facilities/Hardware/Software | N/A | N/A | Corpus Christi RTA | Off | FTA | \$0.21 | | | | | | \$0.21 | | \$0.21 |
| 2021 | N/A | CCRTA-041 | FY21 Engine Overhaul Program | Transit Maintenance/Operations | Engine Overhaul Program | N/A | N/A | Corpus Christi RTA | Off | FTA | \$0.64 | | | | | | \$0.64 | | \$0.64 |
| 2021 | N/A | CCRTA-042 | FY21 Bus Support/Equipment and Facilities/Miscellaneous Shop and Garage Equipment | Transit Maintenance/Operations | Bus Support/Equipment and Facilities/Miscellaneous Shop and Garage Equipment | N/A | N/A | Corpus Christi RTA | Off | FTA | \$0.05 | | | | | | \$0.05 | | \$0.05 |
| 2021 | N/A | CCRTA-043 | FY21 Bus Support Equipment and Facilities/Hardware/Software | Transit Maintenance/Operations | Bus Support Equipment and Facilities/Hardware/Software | N/A | N/A | Corpus Christi RTA | Off | FTA | \$1.21 | | | | | | \$1.21 | | \$1.21 |
| 2021 | N/A | CCRTA-044 | FY21 Bus Stop Amenities | Transit Maintenance/Operations | Bus Stop Amenities | N/A | N/A | Corpus Christi RTA | Off | FTA | \$0.85 | | | | | | \$0.85 | | \$0.85 |
| 2021 | N/A | CCRTA-045 | FY21 Bus Stop Improvements | Transit Maintenance/Operations | Bus Stop Improvements | N/A | N/A | Corpus Christi RTA | Off | FTA | \$1.00 | | | | | | \$1.00 | | \$1.00 |
| 2021 | N/A | CCRTA-046 | FY21 Mobile Bus Lift | Transit Maintenance/Operations | Mobile Bus Lift | N/A | N/A | Corpus Christi RTA | Off | FTA | \$0.05 | | | | | | \$0.05 | | \$0.05 |

DRAFT FY 2021-2024 TIP Amendment 1
Fiscally Constrained Project List (Revised Tables 13a and 13b)

| TIP Fiscal Year | CSJ | Project ID | Project Name | Project Phase | Description | From Limit | To Limit | Sponsor | TxDOT System | Funding Category | Construction Cost (\$, millions) | CAT2 | CAT4 | CAT7 | CAT9 | CAT12 | Local/Other | Prior Funding | Total Project Cost (\$, millions) |
|-----------------|-----|------------|---|--------------------------------|--|------------|----------|--------------------|--------------|------------------|----------------------------------|------|------|------|------|-------|-------------|---------------|-----------------------------------|
| 2021 | N/A | CCRTA-047 | FY21 5310 Sub-recipient | Transit Maintenance/Operations | 5310 Sub-recipient | N/A | N/A | Corpus Christi RTA | Off | FTA | \$0.40 | | | | | | \$0.40 | | \$0.40 |
| 2021 | N/A | CCRTA-048 | FY21 Preventive Maintenance | Transit Maintenance/Operations | Preventive Maintenance | N/A | N/A | Corpus Christi RTA | Off | FTA | \$1.00 | | | | | | \$1.00 | | \$1.00 |
| 2022 | N/A | CCRTA-049 | FY22 5310 Sub-recipient | Transit Maintenance/Operations | 5310 Sub-recipient | N/A | N/A | Corpus Christi RTA | Off | FTA | \$0.40 | | | | | | \$0.40 | | \$0.40 |
| 2022 | N/A | CCRTA-050 | FY22 Westside Station near DMC West Campus | Capital | Westside Station near DMC West Campus | N/A | N/A | Corpus Christi RTA | Off | FTA | \$5.10 | | | | | | \$5.10 | | \$5.10 |
| 2022 | N/A | CCRTA-051 | FY22 Bus Stop Amenities | Transit Maintenance/Operations | Bus Stop Amenities | N/A | N/A | Corpus Christi RTA | Off | FTA | \$0.86 | | | | | | \$0.86 | | \$0.86 |
| 2022 | N/A | CCRTA-052 | FY22 Preventive Maintenance | Transit Maintenance/Operations | Preventive Maintenance | N/A | N/A | Corpus Christi RTA | Off | FTA | \$1.00 | | | | | | \$1.00 | | \$1.00 |
| 2022 | N/A | CCRTA-053 | FY22 Rolling Stock (All variety of rolling stock) | Capital | Rolling Stock (All variety of rolling stock) | N/A | N/A | Corpus Christi RTA | Off | FTA | \$6.58 | | | | | | \$6.58 | | \$6.58 |
| 2022 | N/A | CCRTA-054 | FY22 Support/Relief Vehicles | Capital | Support/Relief Vehicles | N/A | N/A | Corpus Christi RTA | Off | FTA | \$0.34 | | | | | | \$0.34 | | \$0.34 |
| 2022 | N/A | CCRTA-055 | FY22 Bus Stop Improvements | Transit Maintenance/Operations | Bus Stop Improvements | N/A | N/A | Corpus Christi RTA | Off | FTA | \$0.50 | | | | | | \$0.50 | | \$0.50 |
| 2022 | N/A | CCRTA-056 | FY22 Bus Support Equipment and Facilities/Hardware/Software | Transit Maintenance/Operations | Bus Support Equipment and Facilities/Hardware/Software | N/A | N/A | Corpus Christi RTA | Off | FTA | \$1.09 | | | | | | \$1.09 | | \$1.09 |
| 2023 | N/A | CCRTA-057 | FY23 Rolling Stock (All variety of rolling stock) | Capital | Rolling Stock (All variety of rolling stock) | N/A | N/A | Corpus Christi RTA | Off | FTA | \$8.54 | | | | | | \$8.54 | | \$8.54 |
| 2023 | N/A | CCRTA-058 | FY23 Support/Relief Vehicles | Transit Maintenance/Operations | Support/Relief Vehicles | N/A | N/A | Corpus Christi RTA | Off | FTA | \$0.31 | | | | | | \$0.31 | | \$0.31 |
| 2023 | N/A | CCRTA-059 | FY23 Bus Stop Improvements | Transit Maintenance/Operations | Bus Stop Improvements | N/A | N/A | Corpus Christi RTA | Off | FTA | \$0.50 | | | | | | \$0.50 | | \$0.50 |
| 2023 | N/A | CCRTA-060 | FY23 Preventive Maintenance | Transit Maintenance/Operations | Preventive Maintenance | N/A | N/A | Corpus Christi RTA | Off | FTA | \$1.00 | | | | | | \$1.00 | | \$1.00 |
| 2023 | N/A | CCRTA-061 | FY23 Bus Stop amenities | Transit Maintenance/Operations | Bus Stop amenities | N/A | N/A | Corpus Christi RTA | Off | FTA | \$0.99 | | | | | | \$0.99 | | \$0.99 |
| 2023 | N/A | CCRTA-062 | FY23 Bus Support/Equipment and Facilities/Miscellaneous Shop and Garage Equipment | Transit Maintenance/Operations | Bus Support/Equipment and Facilities/Miscellaneous Shop and Garage Equipment | N/A | N/A | Corpus Christi RTA | Off | FTA | \$0.05 | | | | | | \$0.05 | | \$0.05 |
| 2023 | N/A | CCRTA-063 | FY23 Section 5310 Sub-recipients | Transit Maintenance/Operations | Section 5310 Sub-recipients | N/A | N/A | Corpus Christi RTA | Off | FTA | \$0.40 | | | | | | \$0.40 | | \$0.40 |
| 2024 | N/A | CCRTA-064 | FY24 (est. by MPO) Rolling Stock (All variety of rolling stock) | Capital | Rolling Stock (All variety of rolling stock) | N/A | N/A | Corpus Christi RTA | Off | FTA | \$8.54 | | | | | | \$8.54 | | \$8.54 |
| 2024 | N/A | CCRTA-065 | FY24 (est. by MPO) Support/Relief Vehicles | Capital | Support/Relief Vehicles | N/A | N/A | Corpus Christi RTA | Off | FTA | \$0.31 | | | | | | \$0.31 | | \$0.31 |
| 2024 | N/A | CCRTA-066 | FY24 (est. by MPO) Bus Stop Improvements | Transit Maintenance/Operations | Bus Stop Improvements | N/A | N/A | Corpus Christi RTA | Off | FTA | \$0.50 | | | | | | \$0.50 | | \$0.50 |
| 2024 | N/A | CCRTA-067 | FY24 (est. by MPO) Preventive Maintenance | Transit Maintenance/Operations | Preventive Maintenance | N/A | N/A | Corpus Christi RTA | Off | FTA | \$1.00 | | | | | | \$1.00 | | \$1.00 |
| 2024 | N/A | CCRTA-068 | FY24 (est. by MPO staff) Bus Stop amenities | Transit Maintenance/Operations | Bus Stop amenities | N/A | N/A | Corpus Christi RTA | Off | FTA | \$0.99 | | | | | | \$0.99 | | \$0.99 |
| 2024 | N/A | CCRTA-069 | FY24 (est. by MPO staff) Bus Support/Equipment and Facilities/Miscellaneous Shop and Garage Equipment | Transit Maintenance/Operations | Bus Support/Equipment and Facilities/Miscellaneous Shop and Garage Equipment | N/A | N/A | Corpus Christi RTA | Off | FTA | \$0.05 | | | | | | \$0.05 | | \$0.05 |
| 2024 | N/A | CCRTA-070 | FY24 (est. by MPO staff) Section 5310 Sub-recipients | Transit Maintenance/Operations | Section 5310 Sub-recipients | N/A | N/A | Corpus Christi RTA | Off | FTA | \$0.40 | | | | | | \$0.40 | | \$0.40 |

Table 13b. FY 2021-2024 TIP Roll Forward with Prior Funding Project List

| TIP Fiscal Year | CSJ | Project ID | Project Name | Project Phase | Description | From Limit | To Limit | Sponsor | TxDOT System | Funding Category | Construction Cost (\$, millions) | CAT2 | CAT4 | CAT7 | CAT9 | CAT12 | Local/Other | Prior Funding | Total Project Cost (\$, millions) |
|-----------------|-------------|------------|----------------------------|-------------------------|---|--|-------------------------------|------------------|--------------|------------------|----------------------------------|---------|------|---------|--------|----------|-------------|---------------|-----------------------------------|
| 2021 | 0101-06-095 | TxDOT-001 | Harbor Bridge | Design, or Construction | Construct New Bridge, Approaches, Interchanges, and Highway Improvement | North Beach Ave | Morgan Ave@Crosstown Expwy | TxDOT-CRP | On | 2M, 6, 7, 12 | \$807.80 | \$12.60 | | \$19.20 | | \$485.00 | | | \$807.80 |
| 2021 | 0916-28-070 | MPO-065 | Portland Memorial Pkwy H/B | Design, or Construction | Construct Hike & Bike Trail (Funded in FY18 dollars) | On Memorial Pkwy from FM 2986 (Wildcat Dr) | Billy G. Webb Dr | City of Portland | Off | 9 | \$0.34 | | | | \$0.34 | | | | \$0.40 |
| 2021 | 0916-28-069 | MPO-013 | Portland Bicycle Lanes | Design, or Construction | One Way Cycle Track and Buffered Bike Lanes | Various locations in Portland | Various locations in Portland | City of Portland | Off | 9 | \$0.43 | | | | \$0.29 | | \$0.07 | | \$0.43 |



2021-2024 Statewide Transportation Improvement Program

Corpus Christi MPO

Highway Projects

STATEWIDE TRANSPORTATION IMPROVEMENT PROGRAM
CORPUS CHRISTI MPO - HIGHWAY PROJECTS
FY 2021

| 2021-2024 STIP | | | 07/2020 Revision: Revising | | | | | | |
|--|----------------|-------------------------|--|------------|-------|----------|----------------|------------|------------|
| DISTRICT | MPO | COUNTY | CSJ | TIP FY | HWY | PHASE | CITY | YOE COST | |
| CORPUS CHRISTI | CORPUS CHRISTI | NUECES | 0087-06-030 | 2021 | N/A | C | CORPUS CHRISTI | \$ 700,000 | |
| LIMITS FROM at Garcia on Trojan Drive | | | PROJECT SPONSOR City of Corpus Christi | | | | | | |
| LIMITS TO Horne Road | | | REVISION DATE 07/2020 | | | | | | |
| PROJECT Construct & design Hike & Bike Trail | | | MPO PROJ NUM MPO-014 | | | | | | |
| DESCR | | | FUNDING CAT(S) 9TAP | | | | | | |
| REMARKS | | | PROJECT HISTORY | | | | | | |
| P7 | | | | | | | | | |
| TOTAL PROJECT COST INFORMATION | | | AUTHORIZED FUNDING BY CATEGORY/SHARE | | | | | | |
| PREL ENG \$ | 31,643 | COST OF APPROVED PHASES | CATEGORY | FEDERAL | STATE | REGIONAL | LOCAL | LC | TOTAL |
| ROW PURCH \$ | 0 | | 9TAP | \$ 560,000 | \$ 0 | \$ 0 | \$ 140,000 | \$ 0 | \$ 700,000 |
| CONSTR \$ | 700,000 | | TOTAL | \$ 560,000 | \$ 0 | \$ 0 | \$ 140,000 | \$ 0 | \$ 700,000 |
| CONST ENG \$ | 0 | | | | | | | | |
| CONTING \$ | 12,195 | | | | | | | | |
| INDIRECT \$ | 18,728 | | | | | | | | |
| BOND FIN \$ | 0 | | | | | | | | |
| PT CHG ORD \$ | 23,841 | | | | | | | | |
| TOTAL CST \$ | 786,407 | | | | | | | | |

| 2021-2024 STIP | | | 07/2020 Revision: Revising | | | | | | |
|--|----------------|-------------------------|--------------------------------------|---------------|-------|----------|----------------|---------------|---------------|
| DISTRICT | MPO | COUNTY | CSJ | TIP FY | HWY | PHASE | CITY | YOE COST | |
| CORPUS CHRISTI | CORPUS CHRISTI | NUECES | 0101-06-111 | 2021 | VA | C | CORPUS CHRISTI | \$ 57,300,000 | |
| LIMITS FROM N/A | | | PROJECT SPONSOR MPO | | | | | | |
| LIMITS TO N/A | | | REVISION DATE 07/2020 | | | | | | |
| PROJECT US 181 Harbor Bridge Voluntary Relocation Mitigation Program | | | MPO PROJ NUM MPO-008 | | | | | | |
| DESCR | | | FUNDING CAT(S) 7 | | | | | | |
| REMARKS | | | PROJECT HISTORY | | | | | | |
| P7 | | | | | | | | | |
| TOTAL PROJECT COST INFORMATION | | | AUTHORIZED FUNDING BY CATEGORY/SHARE | | | | | | |
| PREL ENG \$ | 0 | COST OF APPROVED PHASES | CATEGORY | FEDERAL | STATE | REGIONAL | LOCAL | LC | TOTAL |
| ROW PURCH \$ | 0 | | 7 | \$ 17,300,000 | \$ 0 | \$ 0 | \$ 40,000,000 | \$ 0 | \$ 57,300,000 |
| CONSTR \$ | 57,300,000 | | TOTAL | \$ 17,300,000 | \$ 0 | \$ 0 | \$ 40,000,000 | \$ 0 | \$ 57,300,000 |
| CONST ENG \$ | 0 | | | | | | | | |
| CONTING \$ | 0 | | | | | | | | |
| INDIRECT \$ | 0 | | | | | | | | |
| BOND FIN \$ | 0 | | | | | | | | |
| PT CHG ORD \$ | 0 | | | | | | | | |
| TOTAL CST \$ | 57,300,000 | | | | | | | | |

| 2021-2024 STIP | | | 07/2020 Revision: Revising | | | | | | |
|---|----------------|-------------------------|--------------------------------------|--------------|------------|----------|----------|--------------|--------------|
| DISTRICT | MPO | COUNTY | CSJ | TIP FY | HWY | PHASE | CITY | YOE COST | |
| CORPUS CHRISTI | CORPUS CHRISTI | SAN PATRICIO | 0101-04-114 | 2021 | US 181 | C | PORTLAND | \$ 4,000,000 | |
| LIMITS FROM FM 3239 (Buddy Ganem Drive) | | | PROJECT SPONSOR TxDOT-CRP | | | | | | |
| LIMITS TO FM 2986 (Wildcat Drive) | | | REVISION DATE 07/2020 | | | | | | |
| PROJECT Reverse entrance and exit ramps in Northbound direction | | | MPO PROJ NUM MPO-004 | | | | | | |
| DESCR | | | FUNDING CAT(S) 2M | | | | | | |
| REMARKS | | | PROJECT HISTORY | | | | | | |
| P7 | | | | | | | | | |
| TOTAL PROJECT COST INFORMATION | | | AUTHORIZED FUNDING BY CATEGORY/SHARE | | | | | | |
| PREL ENG \$ | 58,800 | COST OF APPROVED PHASES | CATEGORY | FEDERAL | STATE | REGIONAL | LOCAL | LC | TOTAL |
| ROW PURCH \$ | 0 | | 2M | \$ 3,200,000 | \$ 800,000 | \$ 0 | \$ 0 | \$ 0 | \$ 4,000,000 |
| CONSTR \$ | 4,000,000 | | TOTAL | \$ 3,200,000 | \$ 800,000 | \$ 0 | \$ 0 | \$ 0 | \$ 4,000,000 |
| CONST ENG \$ | 48,120 | | | | | | | | |
| CONTING \$ | 17,040 | | | | | | | | |
| INDIRECT \$ | 0 | | | | | | | | |
| BOND FIN \$ | 0 | | | | | | | | |
| PT CHG ORD \$ | 46,920 | | | | | | | | |
| TOTAL CST \$ | 4,170,880 | | | | | | | | |

Agenda Item 5A - Attachment 2 (REVISED January 19, 2021)

STATEWIDE TRANSPORTATION IMPROVEMENT PROGRAM
CORPUS CHRISTI MPO - HIGHWAY PROJECTS
FY 2021

| 2021-2024 STIP | | | 07/2020 Revision: Revising | | | | | | |
|--|----------------|-------------------------|--------------------------------------|---------|---------------|----------|----------|---------------|---------------|
| DISTRICT | MPO | COUNTY | CSJ | TIP FY | HWY | PHASE | CITY | YOE COST | |
| CORPUS CHRISTI | CORPUS CHRISTI | SAN PATRICIO | 0101-04-120 | 2021 | US 181 | C | PORTLAND | \$ 14,000,000 | |
| LIMITS FROM North of FM 3239 (Buddy Ganem Drive) | | | PROJECT SPONSOR TxDOT-CRP | | | | | | |
| LIMITS TO FM 2986 (Wildcat Drive) | | | REVISION DATE 07/2020 | | | | | | |
| PROJECT The project will upgrade the existing 4-lane freeway to a 6-lane freeway by cons | | | MPO PROJ NUM MPO-003 | | | | | | |
| DESCR tructing 1 additional travel lane in each direction. | | | FUNDING CAT(S) 2M,4 | | | | | | |
| REMARKS | | | PROJECT HISTORY | | | | | | |
| P7 | | | | | | | | | |
| TOTAL PROJECT COST INFORMATION | | | AUTHORIZED FUNDING BY CATEGORY/SHARE | | | | | | |
| PREL ENG \$ | 1,002,000 | COST OF APPROVED PHASES | CATEGORY | FEDERAL | STATE | REGIONAL | LOCAL | LC | TOTAL |
| ROW PURCH \$ | 0 | | 2M | \$ 0 | \$ 4,800,000 | \$ 0 | \$ 0 | \$ 0 | \$ 4,800,000 |
| CONSTR \$ | 14,000,000 | | 4 | \$ 0 | \$ 9,200,000 | \$ 0 | \$ 0 | \$ 0 | \$ 9,200,000 |
| CONST ENG \$ | 979,400 | | TOTAL | \$ 0 | \$ 14,000,000 | \$ 0 | \$ 0 | \$ 0 | \$ 14,000,000 |
| CONTING \$ | 838,200 | | | | | | | | |
| INDIRECT \$ | 0 | | | | | | | | |
| BOND FIN \$ | 0 | | | | | | | | |
| PT CHG ORD \$ | 1,350,000 | | | | | | | | |
| TOTAL CST \$ | 18,169,600 | | | | | | | | |

| 2021-2024 STIP | | | 07/2020 Revision: Revising | | | | | | |
|--|----------------|-------------------------|--|------------|-------|----------|----------------|------------|------------|
| DISTRICT | MPO | COUNTY | CSJ | TIP FY | HWY | PHASE | CITY | YOE COST | |
| CORPUS CHRISTI | CORPUS CHRISTI | NUECES | 0916-35-219 | 2021 | VA | C | CORPUS CHRISTI | \$ 390,000 | |
| LIMITS FROM Killarmet Drive | | | PROJECT SPONSOR City of Corpus Christi | | | | | | |
| LIMITS TO Holly Road | | | REVISION DATE 07/2020 | | | | | | |
| PROJECT Construct and design Hike and Bike Trail | | | MPO PROJ NUM MPO-011 | | | | | | |
| DESCR | | | FUNDING CAT(S) 9TAP | | | | | | |
| REMARKS | | | PROJECT HISTORY | | | | | | |
| P7 | | | | | | | | | |
| TOTAL PROJECT COST INFORMATION | | | AUTHORIZED FUNDING BY CATEGORY/SHARE | | | | | | |
| PREL ENG \$ | 16,170 | COST OF APPROVED PHASES | CATEGORY | FEDERAL | STATE | REGIONAL | LOCAL | LC | TOTAL |
| ROW PURCH \$ | 0 | | 9TAP | \$ 312,000 | \$ 0 | \$ 0 | \$ 78,000 | \$ 0 | \$ 390,000 |
| CONSTR \$ | 390,000 | | TOTAL | \$ 312,000 | \$ 0 | \$ 0 | \$ 78,000 | \$ 0 | \$ 390,000 |
| CONST ENG \$ | 13,233 | | | | | | | | |
| CONTING \$ | 46,860 | | | | | | | | |
| INDIRECT \$ | 0 | | | | | | | | |
| BOND FIN \$ | 0 | | | | | | | | |
| PT CHG ORD \$ | 0 | | | | | | | | |
| TOTAL CST \$ | 466,263 | | | | | | | | |

| 2021-2024 STIP | | | 07/2020 Revision: Revising | | | | | | |
|--|----------------|-------------------------|--------------------------------------|------------|-------|----------|----------------|------------|------------|
| DISTRICT | MPO | COUNTY | CSJ | TIP FY | HWY | PHASE | CITY | YOE COST | |
| CORPUS CHRISTI | CORPUS CHRISTI | NUECES | 0916-35-218 | 2021 | VA | C | CORPUS CHRISTI | \$ 590,000 | |
| LIMITS FROM At Garcia Park on Trojan Drive | | | PROJECT SPONSOR Corpus Christi | | | | | | |
| LIMITS TO Horne Road | | | REVISION DATE 07/2020 | | | | | | |
| PROJECT Construct & design Hike & Bike Trail | | | MPO PROJ NUM MPO-014 | | | | | | |
| DESCR | | | FUNDING CAT(S) 9TAP | | | | | | |
| REMARKS | | | PROJECT HISTORY | | | | | | |
| P7 | | | | | | | | | |
| TOTAL PROJECT COST INFORMATION | | | AUTHORIZED FUNDING BY CATEGORY/SHARE | | | | | | |
| PREL ENG \$ | 28,910 | COST OF APPROVED PHASES | CATEGORY | FEDERAL | STATE | REGIONAL | LOCAL | LC | TOTAL |
| ROW PURCH \$ | 0 | | 9TAP | \$ 472,000 | \$ 0 | \$ 0 | \$ 118,000 | \$ 0 | \$ 590,000 |
| CONSTR \$ | 590,000 | | TOTAL | \$ 472,000 | \$ 0 | \$ 0 | \$ 118,000 | \$ 0 | \$ 590,000 |
| CONST ENG \$ | 23,659 | | | | | | | | |
| CONTING \$ | 8,378 | | | | | | | | |
| INDIRECT \$ | 0 | | | | | | | | |
| BOND FIN \$ | 0 | | | | | | | | |
| PT CHG ORD \$ | 23,069 | | | | | | | | |
| TOTAL CST \$ | 674,016 | | | | | | | | |

Agenda Item 5A - Attachment 2 (REVISED January 19, 2021)

STATEWIDE TRANSPORTATION IMPROVEMENT PROGRAM
CORPUS CHRISTI MPO - HIGHWAY PROJECTS
FY 2021

| 2021-2024 STIP | | | 07/2020 Revision: Revising | | | | | | |
|--|----------------|-------------------------|--|---------------|---------------|----------|----------------|---------------|---------------|
| DISTRICT | MPO | COUNTY | CSJ | TIP FY | HWY | PHASE | CITY | YOE COST | |
| CORPUS CHRISTI | CORPUS CHRISTI | NUECES | 0074-06-241 | 2021 | IH 37 | C | CORPUS CHRISTI | \$ 60,000,000 | |
| LIMITS FROM Redbird Lane (Overpass) | | | PROJECT SPONSOR TxDOT-CRP | | | | | | |
| LIMITS TO Nueces River | | | REVISION DATE 07/2020 | | | | | | |
| PROJECT Widen freeway by constructing additional 2 travel lanes northbound and 1 additio | | | MPO PROJ NUM MPO-002 | | | | | | |
| DESCR nal travel lane southbound | | | FUNDING CAT(S) 2M,4,12 | | | | | | |
| REMARKS | | | PROJECT HISTORY | | | | | | |
| P7 | | | | | | | | | |
| TOTAL PROJECT COST INFORMATION | | | AUTHORIZED FUNDING BY CATEGORY/SHARE | | | | | | |
| PREL ENG \$ | 2,940,000 | COST OF APPROVED PHASES | CATEGORY | FEDERAL | STATE | REGIONAL | LOCAL | LC | TOTAL |
| ROW PURCH \$ | 0 | | 2M | \$ 9,600,000 | \$ 2,400,000 | \$ 0 | \$ 0 | \$ 0 | \$ 12,000,000 |
| CONSTR \$ | 60,000,000 | | 4 | \$ 12,000,000 | \$ 3,000,000 | \$ 0 | \$ 0 | \$ 0 | \$ 15,000,000 |
| CONST ENG \$ | 2,580,000 | | 12 | \$ 26,400,000 | \$ 6,600,000 | \$ 0 | \$ 0 | \$ 0 | \$ 33,000,000 |
| CONTING \$ | 108,000 | | TOTAL | \$ 48,000,000 | \$ 12,000,000 | \$ 0 | \$ 0 | \$ 0 | \$ 60,000,000 |
| INDIRECT \$ | 0 | | | | | | | | |
| BOND FIN \$ | 0 | | | | | | | | |
| PT CHG ORD \$ | 0 | | | | | | | | |
| TOTAL CST \$ | 65,628,000 | | | | | | | | |
| 2021-2024 STIP | | | 07/2020 Revision: Revising | | | | | | |
| DISTRICT | MPO | COUNTY | CSJ | TIP FY | HWY | PHASE | CITY | YOE COST | |
| CORPUS CHRISTI | CORPUS CHRISTI | SAN PATRICIO | 0916-28-070 | 2021 | CS | C | PORTLAND | \$ 342,106 | |
| LIMITS FROM On Memorial Pkwy from 2986 (Wildcat Dr) | | | PROJECT SPONSOR City of Portland | | | | | | |
| LIMITS TO Billy G. Webb Dr | | | REVISION DATE 07/2020 | | | | | | |
| PROJECT Construct Hike and Bike Trail | | | MPO PROJ NUM B-226-C9-18 | | | | | | |
| DESCR | | | FUNDING CAT(S) 9TAP | | | | | | |
| REMARKS Memorial Pkwy Hike & Bike Phase 1 (Project name) | | | PROJECT HISTORY | | | | | | |
| P7 | | | | | | | | | |
| TOTAL PROJECT COST INFORMATION | | | AUTHORIZED FUNDING BY CATEGORY/SHARE | | | | | | |
| PREL ENG \$ | 17,890 | COST OF APPROVED PHASES | CATEGORY | FEDERAL | STATE | REGIONAL | LOCAL | LC | TOTAL |
| ROW PURCH \$ | 0 | | 9TAP | \$ 273,685 | \$ 0 | \$ 0 | \$ 68,421 | \$ 0 | \$ 342,106 |
| CONSTR \$ | 342,106 | | TOTAL | \$ 273,685 | \$ 0 | \$ 0 | \$ 68,421 | \$ 0 | \$ 342,106 |
| CONST ENG \$ | 17,854 | | | | | | | | |
| CONTING \$ | 4,125 | | | | | | | | |
| INDIRECT \$ | 0 | | | | | | | | |
| BOND FIN \$ | 0 | | | | | | | | |
| PT CHG ORD \$ | 15,189 | | | | | | | | |
| TOTAL CST \$ | 397,164 | | | | | | | | |
| 2021-2024 STIP | | | 07/2020 Revision: Revising | | | | | | |
| DISTRICT | MPO | COUNTY | CSJ | TIP FY | HWY | PHASE | CITY | YOE COST | |
| CORPUS CHRISTI | CORPUS CHRISTI | NUECES | 0916-35-206 | 2021 | N/A | C | CORPUS CHRISTI | \$ 620,000 | |
| LIMITS FROM Various Locations in Corpus Christi | | | PROJECT SPONSOR City of Corpus Christi | | | | | | |
| LIMITS TO N/A | | | REVISION DATE 07/2020 | | | | | | |
| PROJECT Designation of bicycle boulevards with pavement markings and signage | | | MPO PROJ NUM MPO-012 | | | | | | |
| DESCR | | | FUNDING CAT(S) 9TAP | | | | | | |
| REMARKS | | | PROJECT HISTORY | | | | | | |
| P7 | | | | | | | | | |
| TOTAL PROJECT COST INFORMATION | | | AUTHORIZED FUNDING BY CATEGORY/SHARE | | | | | | |
| PREL ENG \$ | 26,449 | COST OF APPROVED PHASES | CATEGORY | FEDERAL | STATE | REGIONAL | LOCAL | LC | TOTAL |
| ROW PURCH \$ | 0 | | 9TAP | \$ 496,000 | \$ 0 | \$ 0 | \$ 124,000 | \$ 0 | \$ 620,000 |
| CONSTR \$ | 620,000 | | TOTAL | \$ 496,000 | \$ 0 | \$ 0 | \$ 124,000 | \$ 0 | \$ 620,000 |
| CONST ENG \$ | 26,395 | | | | | | | | |
| CONTING \$ | 6,099 | | | | | | | | |
| INDIRECT \$ | 0 | | | | | | | | |
| BOND FIN \$ | 0 | | | | | | | | |
| PT CHG ORD \$ | 22,455 | | | | | | | | |
| TOTAL CST \$ | 701,398 | | | | | | | | |

STATEWIDE TRANSPORTATION IMPROVEMENT PROGRAM
CORPUS CHRISTI MPO - HIGHWAY PROJECTS
FY 2022

| 2021-2024 STIP | | | 07/2020 Revision: Revising | | | | | | |
|--|----------------|-------------------------|--------------------------------------|-----------------|------------|--|----------------|--------------|--------------|
| DISTRICT | MPO | COUNTY | CSJ | TIP FY | HWY | PHASE | CITY | YOE COST | |
| CORPUS CHRISTI | CORPUS CHRISTI | NUECES | 0916-35-195 | 2022 | VA | C | CORPUS CHRISTI | \$ 1,420,000 | |
| LIMITS FROM On various city streets from Coles High School | | | | | | PROJECT SPONSOR City of Corpus Christi | | | |
| LIMITS TO Williams Memorial Park | | | | | | REVISION DATE 07/2020 | | | |
| PROJECT Construct pedestrian and bike facilities | | | | | | MPO PROJ NUM MPO-007 | | | |
| DESCR | | | | | | FUNDING CAT(S) 7 | | | |
| REMARKS | | | | PROJECT HISTORY | | | | | |
| P7 | | | | | | | | | |
| TOTAL PROJECT COST INFORMATION | | | AUTHORIZED FUNDING BY CATEGORY/SHARE | | | | | | |
| PREL ENG \$ | 58,800 | COST OF APPROVED PHASES | CATEGORY | FEDERAL | STATE | REGIONAL | LOCAL | LC | TOTAL |
| ROW PURCH \$ | 0 | | 7 | \$ 1,136,000 | \$ 284,000 | \$ 0 | \$ 0 | \$ 0 | \$ 1,420,000 |
| CONSTR \$ | 1,420,000 | | TOTAL | \$ 1,136,000 | \$ 284,000 | \$ 0 | \$ 0 | \$ 0 | \$ 1,420,000 |
| CONST ENG \$ | 48,120 | | | | | | | | |
| CONTING \$ | 17,040 | | | | | | | | |
| INDIRECT \$ | 0 | | | | | | | | |
| BOND FIN \$ | 0 | | | | | | | | |
| PT CHG ORD \$ | 46,920 | | | | | | | | |
| TOTAL CST \$ | 1,590,880 | | | | | | | | |

| 2021-2024 STIP | | | 07/2020 Revision: Revising | | | | | | |
|---|----------------|-------------------------|--------------------------------------|-----------------|------------|--|----------------|--------------|--------------|
| DISTRICT | MPO | COUNTY | CSJ | TIP FY | HWY | PHASE | CITY | YOE COST | |
| CORPUS CHRISTI | CORPUS CHRISTI | NUECES | 0916-35-196 | 2022 | N/A | C | CORPUS CHRISTI | \$ 4,800,000 | |
| LIMITS FROM N/A | | | | | | PROJECT SPONSOR City of Corpus Christi | | | |
| LIMITS TO N/A | | | | | | REVISION DATE 07/2020 | | | |
| PROJECT Park mitigation for Harbor Bridge | | | | | | MPO PROJ NUM MPO-009 | | | |
| DESCR | | | | | | FUNDING CAT(S) 7,3LC | | | |
| REMARKS | | | | PROJECT HISTORY | | | | | |
| P7 | | | | | | | | | |
| TOTAL PROJECT COST INFORMATION | | | AUTHORIZED FUNDING BY CATEGORY/SHARE | | | | | | |
| PREL ENG \$ | 23,520 | COST OF APPROVED PHASES | CATEGORY | FEDERAL | STATE | REGIONAL | LOCAL | LC | TOTAL |
| ROW PURCH \$ | 0 | | 7 | \$ 1,040,000 | \$ 260,000 | \$ 0 | \$ 0 | \$ 0 | \$ 1,300,000 |
| CONSTR \$ | 4,800,000 | | 3LC | \$ 0 | \$ 0 | \$ 0 | \$ 0 | \$ 3,500,000 | \$ 3,500,000 |
| CONST ENG \$ | 192,480 | | TOTAL | \$ 1,040,000 | \$ 260,000 | \$ 0 | \$ 0 | \$ 3,500,000 | \$ 4,800,000 |
| CONTING \$ | 68,160 | | | | | | | | |
| INDIRECT \$ | 0 | | | | | | | | |
| BOND FIN \$ | 0 | | | | | | | | |
| PT CHG ORD \$ | 187,680 | | | | | | | | |
| TOTAL CST \$ | 5,271,840 | | | | | | | | |

Agenda Item 5A - Attachment 2 (REVISED January 19, 2021)

STATEWIDE TRANSPORTATION IMPROVEMENT PROGRAM
CORPUS CHRISTI MPO - HIGHWAY PROJECTS
FY 2023

| 2021-2024 STIP | | | 07/2020 Revision: Revising | | | | | | |
|--|----------------|-------------------------|----------------------------|--------------------------------------|--------------|----------|----------------------|--------------|--------------|
| DISTRICT | MPO | COUNTY | CSJ | TIP FY | HWY | PHASE | CITY | YOE COST | |
| CORPUS CHRISTI | CORPUS CHRISTI | SAN PATRICIO | 1209-01-030 | 2023 | FM 893 | C | PORTLAND | \$ 7,000,000 | |
| LIMITS FROM CR 3685 (Stark Road) | | | PROJECT SPONSOR TxDOT-CRP | | | | | | |
| LIMITS TO 0.2 miles West of CR 79 (Gum Hollow) | | | REVISION DATE 07/2020 | | | | | | |
| PROJECT Upgrade from 2-lane roadway to 5-lane urban roadway by constructing additional 2 | | | | | | | MPO PROJ NUM MPO-006 | | |
| DESCR lanes and CLTL | | | | | | | FUNDING CAT(S) 2M | | |
| REMARKS | | | | PROJECT HISTORY | | | | | |
| P7 | | | | | | | | | |
| TOTAL PROJECT COST INFORMATION | | | | AUTHORIZED FUNDING BY CATEGORY/SHARE | | | | | |
| PREL ENG \$ | 343,000 | COST OF APPROVED PHASES | CATEGORY | FEDERAL | STATE | REGIONAL | LOCAL | LC | TOTAL |
| ROW PURCH \$ | 0 | | 2M | \$ 5,600,000 | \$ 1,400,000 | \$ 0 | \$ 0 | \$ 0 | \$ 7,000,000 |
| CONSTR \$ | 7,000,000 | | TOTAL | \$ 5,600,000 | \$ 1,400,000 | \$ 0 | \$ 0 | \$ 0 | \$ 7,000,000 |
| CONST ENG \$ | 347,200 | | | | | | | | |
| CONTING \$ | 139,300 | | | | | | | | |
| INDIRECT \$ | 0 | | | | | | | | |
| BOND FIN \$ | 0 | | | | | | | | |
| PT CHG ORD \$ | 0 | | | | | | | | |
| TOTAL CST \$ | 7,829,500 | | | | | | | | |

Agenda Item 5A - Attachment 2 (REVISED January 19, 2021)

STATEWIDE TRANSPORTATION IMPROVEMENT PROGRAM
CORPUS CHRISTI MPO - HIGHWAY PROJECTS
FY 2024

| 2021-2024 STIP | | | 07/2020 Revision: Revising | | | | | | |
|----------------------------------|----------------|-------------------------|--------------------------------------|-----------------|--------------|----------|---------------------------|----------|---------------|
| DISTRICT | MPO | COUNTY | CSJ | TIP FY | HWY | PHASE | CITY | YOE COST | |
| CORPUS CHRISTI | CORPUS CHRISTI | NUECES | 0617-01-177 | 2024 | SH 358 | C | CORPUS CHRISTI | \$ | 35,000,000 |
| LIMITS FROM Nile Drive | | | | | | | PROJECT SPONSOR TxDOT-CRP | | |
| LIMITS TO Staples Street | | | | | | | REVISION DATE 07/2020 | | |
| PROJECT Ramp reversal Phase II-B | | | | | | | MPO PROJ NUM MPO-001 | | |
| DESCR | | | | | | | FUNDING CAT(S) 2M | | |
| REMARKS | | | | PROJECT HISTORY | | | | | |
| P7 | | | | | | | | | |
| TOTAL PROJECT COST INFORMATION | | | AUTHORIZED FUNDING BY CATEGORY/SHARE | | | | | | |
| PREL ENG | \$ 1,715,000 | COST OF APPROVED PHASES | CATEGORY | FEDERAL | STATE | REGIONAL | LOCAL | LC | TOTAL |
| ROW PURCH | \$ 0 | | 2M | \$ 28,000,000 | \$ 7,000,000 | \$ 0 | \$ 0 | \$ 0 | \$ 35,000,000 |
| CONSTR | \$ 35,000,000 | | TOTAL | \$ 28,000,000 | \$ 7,000,000 | \$ 0 | \$ 0 | \$ 0 | \$ 35,000,000 |
| CONST ENG | \$ 1,505,000 | | | | | | | | |
| CONTING | \$ 63,000 | | | | | | | | |
| INDIRECT | \$ 0 | | | | | | | | |
| BOND FIN | \$ 0 | | | | | | | | |
| PT CHG ORD | \$ 1,648,500 | | | | | | | | |
| TOTAL CST | \$ 39,931,500 | | | | | | | | |

Agenda Item 5A - Attachment 2 (REVISED January 19, 2021)



PUBLIC NOTICE #21-1
January 15, 2021

The **Corpus Christi Metropolitan Planning Organization** (Corpus Christi MPO) is seeking public input and comments to amend the **FY 2021-2024 Transportation Improvement Program (TIP)**.

FY 2021-2024 TIP Amendment 1 – Project Removal:

| TIP Fiscal Year | Project | Project Description | Funding Category | Total Project Cost |
|-----------------|---|---|------------------|----------------------|
| 2021 | US 181 | Widen freeway by constructing 1 additional travel lane in each direction | Category 2 | \$18,170,880 |
| 2021 | US 181 Ramp Reversals | Reverse entrance and exit ramps in Northbound direction | Category 2 | \$5,191,680 |
| 2021 | SH 286 (FM 43 – FM 2444) | Extend 2 lane roadway to 4 lane divided freeway by constructing mainlanes, overpass, and frontage roads | Category 2 | \$51,920,000 |
| 2024 | SH 361 (At SH 35 Interchange – 0.6 miles Southeast on SH 361) | Upgrade/add direct connectors | Category 2 | \$46,200,000 |
| 2024 | SH 35 (FM 3284 – 0.23 North of SH 361) | Upgrade/add direct connectors | Category 4U | \$25,800,000 |
| 2024 | PR 22 (Aquarius St / Hwy 361 – Whitecap Blvd) | Corridor upgrade for pedestrian and access management improvements no added capacity | Category 2 | \$19,200,000 |
| 2021 | IH 37 | Widen freeway | Category 4 | \$22,000,000 |
| | | | Total | \$188,482,560 |

Public Comments may be provided in writing, limited to 1,000 characters, by emailing ccmpo@cctxmpo.us or by regular mail or hand-delivery to the Corpus Christi MPO offices at 602 N. Staples St., Suite 300, Corpus Christi, TX 78401, and **MUST** be submitted no later than 5 minutes after the start of a meeting in order to be provided for consideration and review at the meeting. All Public Comments submitted shall be placed into the record of the meeting.

January 21, 2021, 9:00 a.m.*

MPO Technical Advisory Committee (TAC) Meeting (Virtual)

Corpus Christi Regional Transportation Authority
602 N. Staples Street, 2nd Floor Board Room
Corpus Christi, TX 78401

February 4 or 5, 2021, 2:00 p.m.*

MPO Transportation Policy Committee (TPC) Meeting

Corpus Christi City Hall - Council Chambers
1201 Leopard Street, Corpus Christi, TX 78401

February 18, 2021, 9:00 a.m.*

MPO Technical Advisory Committee (TAC) Meeting

Corpus Christi Regional Transportation Authority
602 N. Staples Street, 2nd Floor Board Room
Corpus Christi, TX 78401

March 4, 2021, 2:00 p.m.*

MPO Transportation Policy Committee (TPC) Meeting

Corpus Christi City Hall - Council Chambers
1201 Leopard Street, Corpus Christi, TX 78401

**Meeting location, time and format subject to change, check MPO website for final location.*

www.corpuschristi-mpo.org



Freight

The topic of freight involves infrastructure, policies and programs that support the efficient and safe movement of goods in Texas on the state's multimodal freight transportation system. This system includes the newly designated Texas Multimodal Freight Network (TMFN), which consists of key transportation system components associated with freight movement in the state. As illustrated in **Figure 3-6** the network includes nearly 22,000 miles of highway, more than 10,000 miles of rail, 10 ports, 379 miles of waterway, seven airports, and 20 commercial international border crossings.⁶¹ Pipelines are not part of the TMFN, but also are critical to goods movement.

Strategic Importance

The reliable movement of goods is a critical component for the Texas economy, supporting major industrial sectors such as energy, agriculture, and manufacturing. As identified in the Texas Freight Mobility Plan (TFMP), the Texas transportation system delivered 20 tons of freight per household and 12,700 tons of freight per business in 2016, generating \$215 billion of economic impact and \$49 billion in tax revenue.⁶¹ The freight transportation industry in Texas is a large employer, supporting an estimated 2.2 million full-time jobs and \$145 billion in wage income.⁶¹ To ensure continued opportunity for all Texans as the state's population grows, it will be essential to maintain a transportation system that keeps Texas competitive both nationally and globally.

TxDOT Roles and Responsibilities

TxDOT's roles and responsibilities for freight vary by system component and whether it is on- or off-system. Overall, the department leads statewide freight planning through development of the TFMP, which establishes statewide freight goals and performance measures. TxDOT also uses several committees to facilitate communications with a range of freight stakeholders on project development and funding, which guide freight planning and policymaking. TxDOT's specific roles for individual freight modes include:

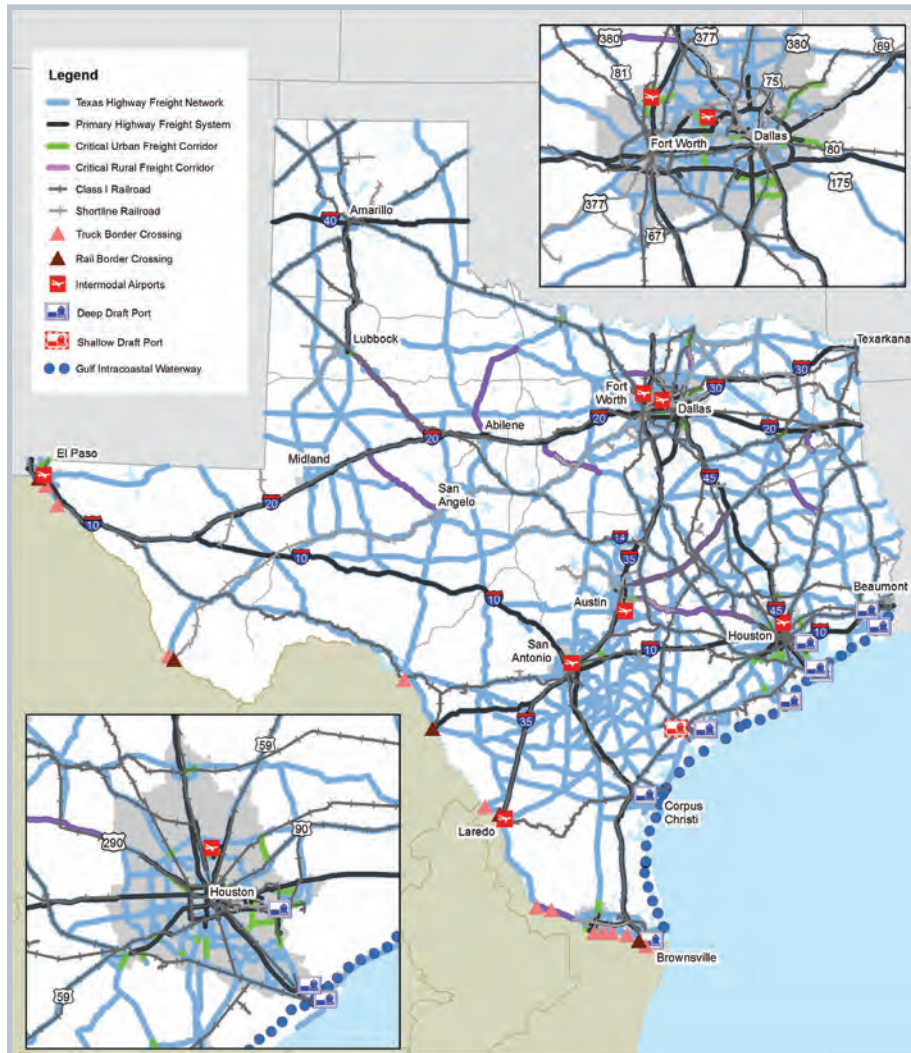
- **Highways** – Planning, development, funding, construction, and management for the on system highway component of the TMFN.⁶²
- **Rail** – Rail planning and safety oversight, rail grant administration, and South Orient Railroad management.⁶³
- **Ports & Waterways** – Promotion of intermodal connectivity.⁶⁴
- **Air Cargo** – Assistance to cities and counties to obtain federal and state aviation funds.⁶⁵
- **Pipelines** – Coordination with the Texas Railroad Commission on permitting.

Freight by the Numbers



Strategic Importance (2016)

Figure 3-6: Texas Multimodal Freight Network



Source: Texas Department of Transportation (2018), Texas Freight Mobility Plan 2018.

Freight Goals & Performance Measures

Promote Safety

- Truck-related crashes per truck-miles traveled on the THFN
- Percent of all fatal motor vehicle crashes involving trucks on the THFN
- Number of rail-related crashes

Deliver the Right Projects

- Number of meetings held with non-TxDOT agencies responsible for freight system investment
- Percent of projects on the THFN delivered on time and within budget

Focus on the Customer

- Completion of annual update of educational materials related to freight by TxDOT

Optimize System Performance

- Annual hours of truck delay on the THFN
- Number of airport cargo/port access issues addressed

Preserve Our Assets

- Percent of pavement miles in good repair on the THFN
- Percent of intermodal connectors in fair or better pavement condition

Foster Stewardship

- Amount of new funding for freight projects
- Number of public private partnerships for freight

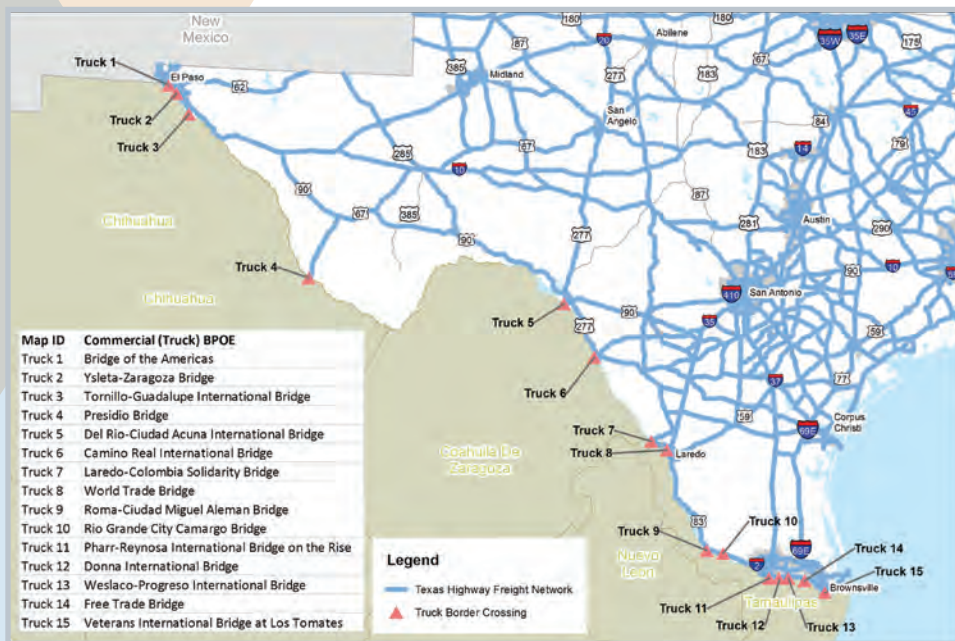
Source: Texas Department of Transportation (2018), Texas Freight Mobility Plan 2018 Appendix.⁶⁶



Truck Freight

The Texas Highway Freight Network (THFN) is the state's primary system for moving goods through and within Texas. The THFN includes the Texas portion of the National Highway Freight Network (NHFN), a federally defined network of the country's most important freight highways that includes the Interstate Highway System. It also includes the Texas Highway Trunk System, a nearly 10,500-mile network of rural highways,⁶⁷ that helps provide connectivity between NHFN routes, intermodal facilities, Mexican ports of entry, and other major freight generators. The THFN includes 15 commercial vehicle crossings that connect the United States' and Mexico's transportation systems (**Figure 3-7**).⁶¹ Goods moving across the border travel on 14 international bridges, which accommodate 68% of all trucks coming from Mexico into the U.S.⁶¹ Additionally, a 15th facility, the Donna International Bridge, serves empty containers moving across the border.⁶¹

Figure 3-7: Texas-Mexico Commercial Vehicle Border Crossings



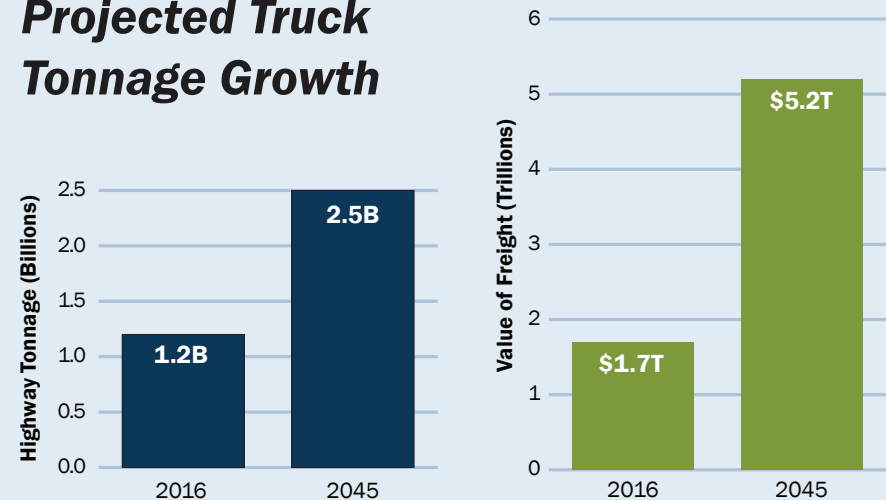
Source: Texas Department of Transportation (2018), Texas Freight Mobility Plan 2018.⁶¹

By 2045, congestion and truck tonnage are projected to increase significantly on interstate highways throughout the state, particularly those located in what is known as the Texas Triangle (the “megaregion” connected by I-10, I-35, and I-45). The border gateways of Laredo, El Paso, and the Rio Grande Valley will also be heavily impacted, along with major manufacturing and distribution hubs, and agricultural and energy development areas such as Midland-Odessa, Amarillo, and Lubbock. The highest increase in truck volumes are projected to be on I-35, I-10, I-45, and I-40.⁶¹

The state's growing truck tonnage will lead to increased daily truck trips and truck miles traveled, which in turn will further exacerbate congestion. In 2016, an estimated 745,800 daily truck trips occurred on Texas' roadways. This figure is projected to increase by nearly 50% to more than one million daily truck trips by 2045. This increase in truck trips will in turn mean more truck miles traveled on Texas roadways.⁶¹

Highway tonnage is expected to double from 1.2 billion tons in 2016 to 2.5 billion tons in 2045, a projected increase of 1.3 billion tons and growth of 108%. During this period, the value of freight moved in Texas is forecasted to grow by 213% from \$1.7 trillion to \$5.2 trillion.⁶¹

Projected Truck Tonnage Growth





Freight Rail

With more than 10,000 track miles, Texas has more miles of rail than any other state.⁵³ Three major (Class I) railroad companies operate within Texas: BNSF Railway, Kansas City Southern, and Union Pacific. Additionally, there are 49 shortline railroads that serve as important first- and last-mile connections for the Class I railroads, Texas ports, and numerous industries.⁵³ In total, rail accounted for just over 20% of the tonnage moved in Texas in 2016, which equated to 440 million tons.⁶²

Texas is home to five of the seven rail border crossings between the U.S. and Mexico: The West Rail Bypass International Bridge in Brownsville, Bridge of the Americas in El Paso, Texas Mexican Railway International Bridge in Laredo, and the Camino Real International Bridge in Eagle Pass. In addition, the Presidio Rail Bridge is expected to reopen within the next five years.⁵³

With more than 10,000 track miles, Texas has more miles of rail than any other state.⁵³



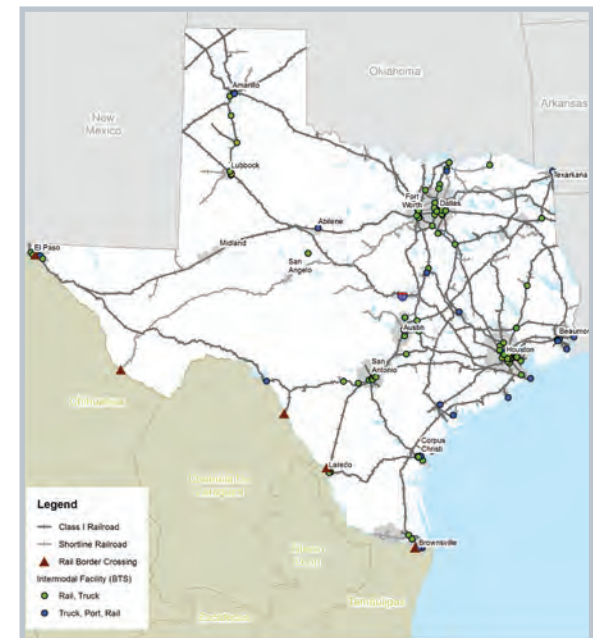
Ports and Waterways

Texas has 12 deep draft and nine shallow draft commercial ports (deep draft ports have channel depths greater than 30 feet).⁶¹ The ports are connected by the Gulf Intracoastal Waterway (GIWW), which runs from Texas to Florida and was designated as Marine Highway 69 in 2016. Between 2014 and 2016, an average of 80 million short-tons per year were transported along the Texas portion of the GIWW.⁶⁸ Cargo carried on the GIWW helps reduce congestion and wear and tear on the state's highway and rail systems, which decreases maintenance costs and extends the lifespan of inland infrastructure. Furthermore, transporting goods on the GIWW is the most fuel-efficient mode of transportation, producing less air pollutants per ton of cargo carried than any other mode.⁶⁹

Ports and waterways on the TMFN handled more than 476 million tons of freight or about 22% of the total tonnage for all modes in 2016.⁶² As of 2017, six Texas ports ranked in the top 50 ports in the U.S. for total tonnage. The Port of Houston had the second highest tonnage of any port in the U.S. in 2017.⁷⁰ The National Multimodal Freight Network (NMFN) includes all U.S. ports handling two million or more short-tons of cargo annually. TxDOT adopted the same criteria in designating facilities for the TMFN.⁶¹

Texas has 12 deep draft and nine shallow draft commercial ports (deep draft ports have channel depths greater than 30 feet).⁶¹

Figure 3-8: Railroads on the Texas Multimodal Freight Network



Source: Texas Department of Transportation (2018), Texas Freight Mobility Plan 2018.

Table 3-1: National Port Rankings by Tonnage

| Port | National Rank |
|------------------------|---------------|
| Houston | 2 |
| Beaumont | 5 |
| Corpus Christi | 6 |
| Port Arthur | 17 |
| Texas City | 18 |
| Freeport | 31 |
| Galveston | 59 |
| Brownsville | 61 |
| Victoria | 80 |
| Calhoun Port Authority | 81 |

Source: U.S. Army Corps of Engineers (2018), Principal Ports of the United States.⁷⁰



Air Cargo

Air cargo is a key component of the TMFN, particularly for shipping high-value and/or time-sensitive goods. In 2018, Texas was home to six of the top 50 cargo airports in the U.S. in terms of landed weight. Those airports include Dallas/Fort Worth International, George Bush Intercontinental/Houston, San Antonio International, Fort Worth Alliance, El Paso International, and Laredo International.⁷¹ Air cargo tonnage is expected to grow at a higher rate than any other mode due to the proliferation of e-commerce paired with expectations of one- or two-day shipping among other market changes.⁶¹ In 2016 air cargo accounted for more than 1.1 million tons of landed weight in Texas.⁶²

Landed weights for airports included in the TMFN (**Figure 3-9**) have been increasing in recent years. Dallas-Fort Worth International Airport, the ninth largest cargo airport in the U.S., saw a remarkable 40.5% increase in landed weight from 2013 to 2018.⁷¹

Airport connectivity to the surrounding transportation network and built environment enables goods to move to their final destinations. Successful air cargo operations require freight-supportive facilities (e.g., cold storage, warehousing) within proximity to facilitate multimodal freight movement. Transportation infrastructure such as arterial and local roadways, which provide “first-mile/last-mile” connections to the main freight network, are also crucial for air cargo movement.

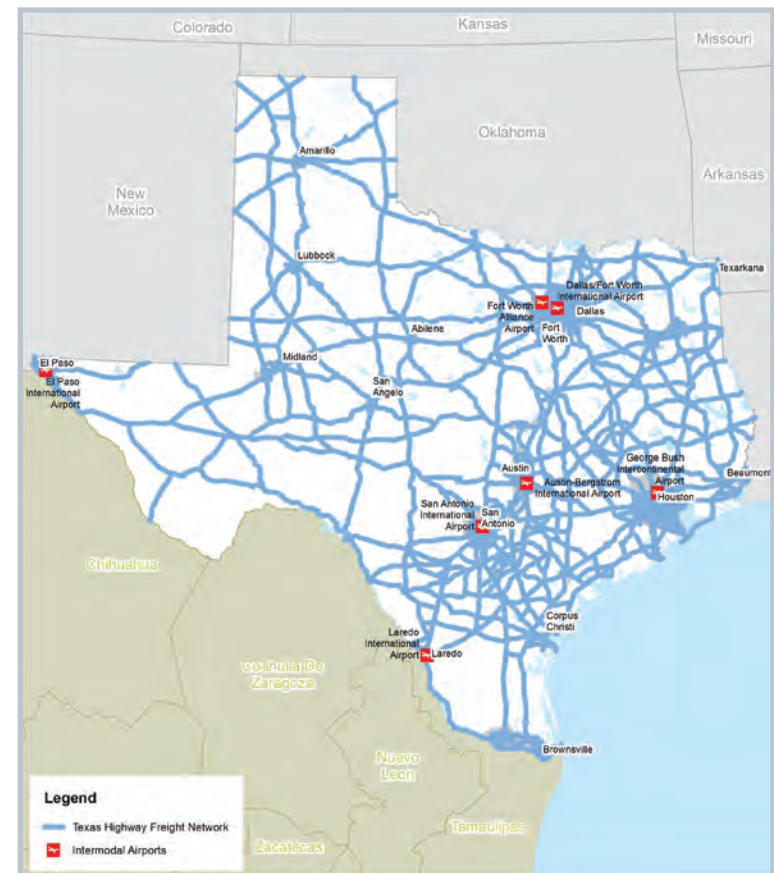
Dallas-Fort Worth International Airport, the ninth largest cargo airport in the U.S., saw a remarkable 40.5% increase in landed weight from 2013 to 2018.⁷¹



Pipelines

Pipelines play a critical role in moving crude oil, natural gas, petroleum products, chemicals, and a variety of other fluid commodities. Texas has a total of 448,446 miles of pipelines, which carried more than 826 million tons of cargo in 2016.⁷² These pipelines are privately owned and managed by more than 1,280 companies. Pipelines in Texas are operated at or near their capacity levels to meet the growing demand for oil, natural gas, and other commodities.⁶¹

Figure 3-9: Texas Airports on the Texas Multimodal Freight Network (TMFN)



Source: Texas Department of Transportation (2018), Texas Freight Mobility Plan 2018.

Pipelines are generally considered the safest method for transporting energy products, although when incidents occur, they can present significant risks to the public and the environment. The scale and speed with which the energy industry has grown in Texas, particularly within the Permian Basin and Eagle Ford Shale regions, has challenged many pipeline companies to respond quickly.⁶¹ Improvements to the privately owned pipeline infrastructure will be critical to performance of the TMFN as the role of pipelines grows.