



TRANSPORTATION POLICY COMMITTEE (TPC)
MEETING AGENDA

2:00 P.M., Thursday, August 6, 2020
Corpus Christi City Hall Council Chambers,
1201 Leopard Street, Corpus Christi, TX 78401

1. Call to Order and Quorum Determination

2. Public Comments for Items not on the Agenda: NO IN-PERSON PUBLIC COMMENTS DUE TO COVID-19

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

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.

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.

3. Approval of the July 2, 2020 TPC Regular Meeting Minutes ☒

4. DISCUSSION AND POSSIBLE ACTION

A. DRAFT FY 2021-FY 2022 Unified Planning Work Program (UPWP) ☒

Action: Review, Discuss and Approve the Release for the 30-day Public Comment Period

5. Member Agency Statements for Items of Community Interest: Upcoming events or holidays and acknowledgements.

6. UPCOMING MEETINGS:

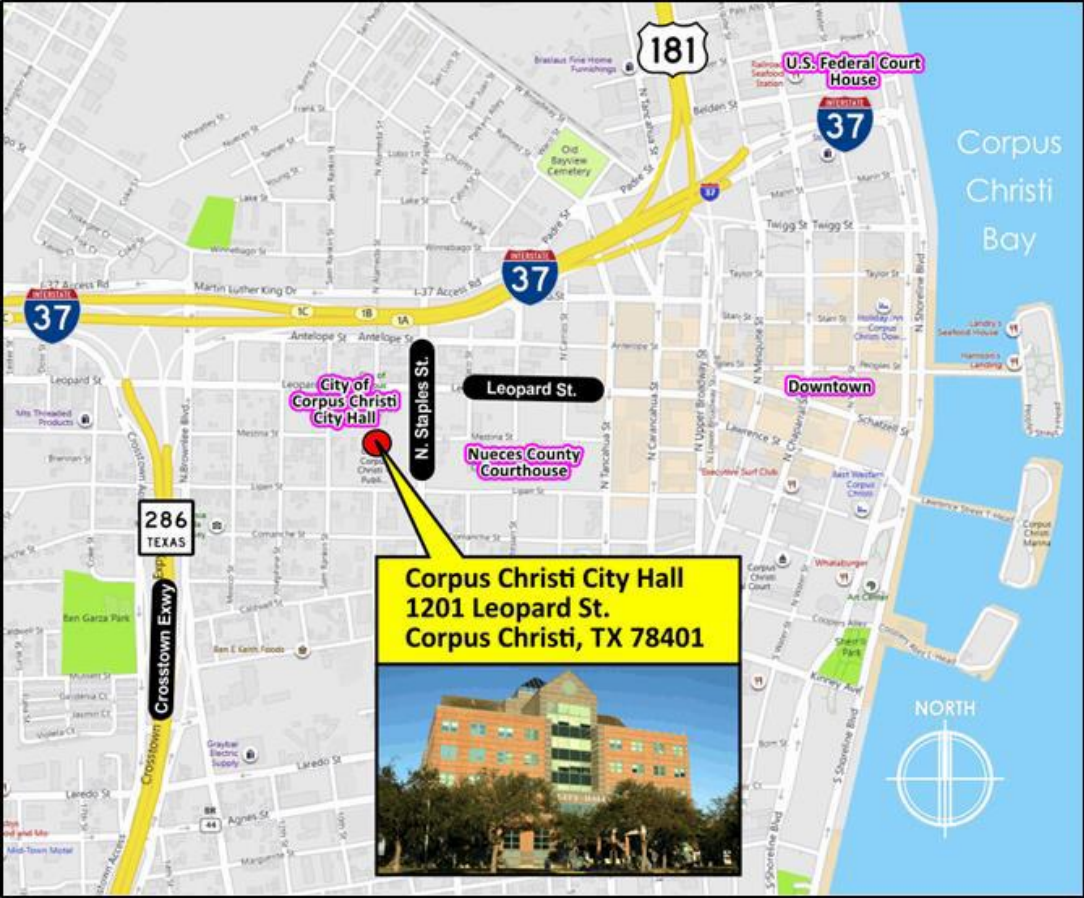
A. Technical Advisory Committee:	Regular Meeting:	August 20, 2020
B. Transportation Policy Committee:	Regular Meeting:	September 3, 2020

7. Adjourn

☒ - Indicates attachment(s) for the agenda item.

All MPO Committee meetings are public meetings and open to the public subject to the COVID-19 policies mentioned above. Any persons with disabilities who plan to attend this meeting and who may need auxiliary aids or services are requested to contact the MPO at (361) 884-0687 at least 48 hours in advance so that appropriate arrangements can be made.

MEETING LOCATION MAP



**CORPUS CHRISTI METROPOLITAN PLANNING ORGANIZATION
TRANSPORTATION POLICY COMMITTEE (TPC) MEETING MINUTES**

July 2, 2020

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

TPC Chair Judge Krebs called the meeting to order at 2:00 p.m. at the City of Corpus Christi Council Chambers.

TPC Members Present:

Judge David Krebs, Chair, San Patricio County
Mr. Charles Zahn, Jr. Vice Chair, Port of Corpus Christi Authority (via phone)
Mayor Cathy Skurow, City of Portland
Mayor Joe McComb, City of Corpus Christi
Mr. Valente Olivarez, Jr., P.E., Texas Department of Transportation, Corpus Christi District
Mr. Eddie Martinez, Corpus Christi Regional Transportation Authority (via phone)
Mr. John Buckner, Coastal Bend Council of Governments

Ms. Mary Esther Guerra, Assistant County Attorney, Nueces County Attorney's Office

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

2. Public Comments for items not on the Agenda

Due to COVID-19, no in-person comment was allowed. Mr. MacDonald informed the TPC and the public there was no public comment submitted for items not on the Agenda as of July 2, 2020 at 2:05 p.m.

3. Approval of the June 4, 2020 TPC Regular Meeting Minutes

Mr. Zahn made a motion to approve the June 4, 2020 TPC Meeting Minutes. Mr. Olivarez, seconded; motion passed unanimously.

4. DISCUSSION AND POSSIBLE ACTION:

A. DRAFT FY 2021-2024 Transportation Improvement Program (TIP)

DRAFT FY 2021-2024 Transportation Improvement Program (TIP) was released for the 30-day public comment period. Mr. MacDonald informed the TPC and the public that the following comments were received during the 30-day public comment period which were documented in the updated FY 2021-2024 TIP, Appendix G: Public Comments:

(1) Technical Advisory Committee (TAC): A suggestion to establish a public comment procedures, to update the total construction cost of Harbor Bridge Relocation Program (MPO-008) based on the number provided by the Port of Corpus Christi Authority, to include CSJ# in the project tables, to remove the local street lines from Exhibits 2, 3, and 4, and to modify the symbology classifications in the legends of the exhibits.

Response: The Corpus Christi MPO made all necessary changes based on the comments provided by the TAC.

(2) Dr. Watts: A formal request for the MPO's positions as to the issue of "Extension of Rodd Field Road across Oso Creek with only 'quality homes' in the across the Creek property."

Response: The Corpus Christi MPO responded to Dr. Watts via e-mail and a letter on his comment.

(3) Texas Department of Transportation (TxDOT), Transportation Planning & Programming (TPP) Division: Verification of FY 2021-2024 TIP highway projects status and some editorial guidance on the documentation such as formatting.

Response: The Corpus Christi MPO will work closely with TxDOT TPP Division and TxDOT Corpus Christi District and make necessary modifications; however, these changes are considered as administrative/technical corrections and do not alter the FY 2021-2024 TIP document contents. If the

changes are substantial, the Corpus Christi MPO will take the formal amendment process through TAC's recommendation and TPC's approval.

Mr. Olivarez stated these comments submitted by TxDOT TPP Division seem either administrative or technical in nature and he believed that the Corpus Christi MPO staff, TxDOT TPP Division, and TxDOT Corpus Christi District staff can work things out.

Mr. Olivarez made a motion to approve the DRAFT FY 2021-2024 TIP. Mayor Skurow seconded; motion passed unanimously.

B. Resolution in Recognition of Regional Leadership in Transportation Provided by Gary Bushell

A resolution to recognize Mr. Bushell who successfully led the state advocacy and local outreach effort in Texas transportation including I-69 Corridor projects was proposed. Mr. Zahn made a motion to approve the resolution for Mr. Bushell. Mayor McComb seconded; motion passed unanimously.

C. Ratification of the Revised Employment Contract Terms for the Transportation Planning Director

As discussed and agreed in the Executive Session on June 4, 2020 TPC meeting, the Corpus Christi MPO Transportation Planning Director contract, Section 3: Compensation is revised. Mr. MacDonald will receive an annual salary of \$145,000 with corresponding bi-weekly installments of \$5,577.00.

Mayor McComb motioned to ratify the revised employment contract for Mr. MacDonald. Mr. Olivarez seconded; motion passed unanimously.

5. INFORMATION ONLY ITEM

A. DRAFT FY 2021-FY 2022 Unified Planning Work Program (UPWP)

Mr. Casper briefed the TPC on the FY 2021- FY 2022 UPWP. This is one of the federally required documents that identifies the Corpus Christi MPO's budget, expected products per task, and transportation planning activities and projects in the MPO planning area between October 1, 2020 and September 30, 2022. The big difference between the previous UPWP and this DRAFT FY 2021-FY 2022 UPWP is the direct expense is separated and identified as Task 6. Task 1 through 5 are state designated tasks. There were a few typos in the DRAFT FY 2021-FY 2022 UPWP, these typos will be corrected before the DRAFT FY 2021-FY 2022 is finalized.

Mr. MacDonald reminded the TPC there are two more opportunities to review the DRAFT FY 2021-FY 2022 UPWP; before the approval of releasing UPWP to the public for 30-days public comment period, and before the final adoption of UPWP. This information item is an effort to introduce the TPC members and public to the lengthy UPWP document gradually since it is currently 80 pages. The UPWP also goes through the same public involvement process as MTP and TIP; reviewed and discussed by TAC and TPC with the required 30-day public comment period.

6. Member Agency Statements for Items of Community Interest: Upcoming events or holidays and acknowledgements

Mr. Olivarez informed the TPC and the public that the selection of an engineering design firm for the cable-stayed portion of the New Harbor Bridge Project will occur soon. TxDOT will make an announcement once the decision is officially made.

Mayor McComb inquired the expected completion year. Mr. Olivarez stated that it is still uncertain at this time.

7. Upcoming Meetings:

A. Technical Advisory Committee:	Regular Meeting:	July 16, 2020
B. Transportation Policy Committee:	Regular Meeting:	August 6, 2020

8. Adjourn: The meeting adjourned at 2:21 p.m.



Date: July 30, 2020
To: Transportation Policy Committee (TPC)
From: Craig Casper, Senior Transportation Planner
Through: Robert MacDonald, Transportation Planning Director
Subject: Item 4A: DRAFT FY 2021 - FY 2022 Unified Planning Work Program (UPWP)
Action: Review, Discuss and Release for 30-day Public Comment Period

Summary

A Unified Planning Work Program (UPWP) is required as a basis and condition for all federal funding assistance by the joint planning regulations of the Federal Highway Administration (FHWA) and the Federal Transit Administration (FTA). The guidance from the Federal agencies states:

“At a minimum, an UPWP includes a description of the planning work and resulting products, whom will perform the work, time frames for completing the work, the cost of the work, and the source(s) of funds.” (23 C.F.R. 450.308).

The Corpus Christi MPO staff has developed the details of the FY 2021 - FY 2022 UPWP document that serves as the scope of work for the MPO. The current draft document is attached for review, comment and consideration for release for the required 30-day public comment period.

This FY 2021 - FY 2022 UPWP documents all the transportation planning activities in the Corpus Christi MPO Planning Area. While the primary focus of this document is the transportation planning performed by the Corpus Christi MPO staff, other transportation-related planning activities that are conducted within the boundaries of the Corpus Christi MPO Planning Area by member agencies and partners are also documented, no matter who is performing the work and the source of funding. The geography and timeframe of this UPWP are within the Corpus Christi Metropolitan Planning Area (MPA) during the federal fiscal years beginning October 1, 2020 and ending September 30, 2022. This work program was developed to serve several objectives:

1. Define transportation planning activities to meet the transportation needs of local, state, and federal agencies.
2. Coordinate transportation planning activities and relationships (both internal and external).
3. Identify funding sources for planning studies and promote the wise use of public resources using interagency coordination.

A total of \$2,520,000 is available over the two fiscal years of this work program. Approximately 96 percent of these funds are from federal sources and explicitly for metropolitan transportation planning purposes. The total also includes some funds from previous years (carryover) that have accumulated. Please note that annual operating costs for the organization consume much of the annually appropriated funds, and some Corpus Christi MPO contracts are anticipated to extend beyond the 2-year time period of this UPWP. Some of this accumulated funding is needed to address major planning and development and simulation model support. FHWA “carryover” funds were budgeted in this UPWP

to continue major contractual activities in preparation for the 2050 MTP development in each of the next two UPWP program years.

UPWP’s throughout Texas are organized into Tasks. Tasks 1.0 through 5.0 relate to activities accomplished directly by the Corpus Christi MPO staff and are formatted to show the purpose, objective, methodology, expected products, schedule, previous accomplishments, and budget summary. The Corpus Christi MPO uses Subtask 1.9 to document expected direct expenses, including contract services, printing, travel, training, office supplies, support services, memberships and publications, equipment, and maintenance expenditures. Local entity planning efforts are shown in Section VIII.

The Fixing America’s Surface Transportation (or FAST) Act became law on December 4, 2015. The FAST Act includes 11 factors that the metropolitan planning process must explicitly consider and analyze. Specifically, and in alphabetical order as opposed to any implied priority, FAST compliant metropolitan (and statewide) planning processes must consider transportation projects and strategies that will:

- Emphasize the preservation of the existing transportation system.
- Enhance the integration and connectivity of the transportation system, across and between modes, for people and freight
- Enhance travel and tourism
- Improve transportation system resiliency and reliability
- Increase accessibility and mobility of people and freight
- Increase the safety of the transportation system for motorized and non-motorized users
- Increase the security of the transportation system for motorized and non-motorized users
- Promote efficient system management and operation
- Protect and enhance the environment, promote energy conservation, improve quality of life, and promote consistency between transportation improvements and State and local planned growth and economic development patterns
- Reduce (or mitigate) the stormwater impacts of surface transportation
- Support the economic vitality of the metropolitan area, especially by enabling global competitiveness, productivity, and efficiency

The following Budget Summary Table provides an overview of the funding allocation by major Task.

UPWP Task	Description	FY 2021 Federal Funds	FY 2022 Federal Funds	State Funds	Other Funds	Total Funds
1.0	Administration-Management	\$ 659,000	\$655,000	\$ 0	\$100,000	\$ 1,414,000
2.0	Data Development and Maintenance	\$ 172,000	\$ 143,000	\$ 0	\$ 0	\$ 315,000
3.0	Short Range Planning	\$181,000	\$ 181,000	\$ 0	\$ 0	\$ 362,000
4.0	Metropolitan Transportation Plan	\$ 235,000	\$ 114,000	\$ 0	\$ 0	\$ 349,000
5.0	Special Studies	\$ 40,000	\$ 40,000	\$ 0	\$ 0	\$ 80,000
	TOTAL	\$ 1,287,000	\$ 1,133,000	\$ 0	\$ 100,000	\$ 2,520,000

Recommendation

The Technical Advisory Committee (TAC) and the Corpus Christi MPO staff recommend that the Transportation Policy Committee (TPC) review, comment and offer suggestions for the DRAFT FY 2021-FY 2022 Unified Planning Work Program (UPWP) and release the UPWP for the required 30-day public comment period. The adopted Corpus Christi MPO’s Public Participation Plan (PPP) calls for the 30-day public comment period for a UPWP.

Proposed Motion

Move to approve the release of the DRAFT Corpus Christi MPO FY 2021- FY 2022 Unified Planning Work Program for the required 30-day public comment period.

Attachments

1. Corpus Christi MPO DRAFT FY 2021 – FY 2022 Unified Planning Work Program (UPWP)
2. Public Notice #20-7 for the FY 2021 – FY 2022 UPWP



DRAFT FY 2021 - FY 2022 **UNIFIED PLANNING WORK PROGRAM**

Corpus Christi Metropolitan Planning Organization Urban Transportation Study

Agenda Item #4A - Attachment 1

Corpus Christi Metropolitan Planning Organization
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Tel: 361.884.0687 E-mail: ccmpo@cctxmpo.us
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DRAFT FY 2021 - FY 2022 **UNIFIED PLANNING WORK PROGRAM**

Corpus Christi Metropolitan Planning Organization Urban Transportation Study



Pending Approval by the
Corpus Christi MPO Transportation Policy Board

Prepared in Cooperation With:

Texas Department of Transportation
Federal Highway Administration
Federal Transit Administration
Corpus Christi Regional Transportation Authority
City of Corpus Christi
City of Portland
Nueces County
San Patricio County
Port of Corpus Christi Authority

This document was prepared with financial assistance from the Federal Highway Administration and the Federal Transit Administration of the U.S. Department of Transportation through the Texas Department of Transportation. The Corpus Christi Metropolitan Planning Organization is solely responsible for its content.

TABLE OF CONTENTS

SECTION I. INTRODUCTION AND SUMMARY	1
A. Purpose	4
B. Definition of Area	5
C. Organization	5
D. Private Sector Involvement	7
E. Planning Issues and Emphasis	7
F. Corpus Christi MPO Agreements	11
G. Status of Core Corpus Christi MPO Planning Documents	11
SECTION II. TASK 1.0 ADMINISTRATION AND MANAGEMENT	12
Subtask 1.1 – Program Coordination and Direction	15
Subtask 1.2 – Unified Planning Work Program (UPWP) Development	15
Subtask 1.3 – Monthly Billing and Financial Management	16
Subtask 1.4 – Staff Training and Education	16
Subtask 1.5 – Community Planning and Development Activities	16
Subtask 1.6 – Computer Maintenance and Website Management	16
Subtask 1.7 – Public Outreach	17
Subtask 1.8 – Program Evaluation	18
Subtask 1.9 – Direct Expenses	19
SECTION III. TASK 2.0 DATA DEVELOPMENT AND ANALYSES	20
Subtask 2.1 – MPO Geographic Information System (GIS) Database Management	23
Subtask 2.2 – Travel Demand and Corridor Model Development and Update	23
Subtask 2.3 – Socio-Economic Allocation/Land-Use Model Acquisition and Calibration	23
Subtask 2.4 – Crash Data Acquisition and Crash Model Calibration	24
Subtask 2.5 – Infrastructure Condition Data Aggregation and Analysis Models	24
SECTION IV. TASK 3.0 SHORT RANGE PLANNING	25
Subtask 3.1 – Transportation Improvement Program (TIP) Update	28
Subtask 3.2 – CMP/TSMO/ITS Architecture Plan	28
Subtask 3.3 – Active and Micro-mobility Transportation Planning	29
Subtask 3.4 – Regional Freight Planning	29
Subtask 3.5 – Transit Coordination	29
Subtask 3.6 – Economic Analyses of Projects and Portfolios	29
Subtask 3.7 – Infrastructure Lifecycle Analysis and Reporting	30
Subtask 3.8 – Crash Analyses and Traffic Incident Management Planning	30
Subtask 3.9 – Coordinated Public Transit - Human Services Transportation Plan Update	31
SECTION V. TASK 4.0 METROPOLITAN TRANSPORTATION PLAN (MTP) UPDATE	32
Subtask 4.1 – Refine Vision and Goals	34
Subtask 4.2 – Refine Performance Measures and Evaluation Criteria	34
Subtask 4.3 – Identify Needs and Deficiency Locations	35
Subtask 4.4 – Develop a Financial Plan of Reasonable Available Funding	35
Subtask 4.5 – Develop, Analyze, and Refine Scenarios for Analysis and Investment	36
Subtask 4.6 – Document Plan and Processes	36
Subtask 4.7 – Evaluate Impacts and Develop Mitigation	36
Subtask 4.8 – Planning and Programming Process Evaluation and Debrief	36
Subtask 4.9 – Process Documentation and Enhancement	37

SECTION VI. TASK 5.0 SPECIAL STUDIES	38
Subtask 5.1 – Regional Safety Planning	38
Subtask 5.2 – Resilience and Durability to Extreme Weather Pilot Project	39
SECTION VII. BUDGET SUMMARY – REVENUE INFORMATION	40
Federal Funding Sources	40
State Funding Sources	40
Other Non-Federal Funding Sources	40
Planning Funds Allocation Process	41
SECTION VIII. PARTNER AGENCY PLANNING STUDY COORDINATION	43
TxDOT Planning Efforts	43
City of Corpus Christi Planning Efforts	43
Nueces County Planning Efforts	44
City of Portland Planning Efforts	44
San Patricio County Planning Efforts	45
Corpus Christi Regional Transportation Authority Planning Efforts	45
Port of Corpus Christi Authority Planning Efforts	45
Corpus Christi International Airport Planning Efforts	45
Coastal Bend Council of Governments Planning Efforts	45
Military Installation Coordination	45
SECTION IX. APPENDICES	46
Appendix A – Committee Membership	
Transportation Policy Committee (TPC)	
Technical Advisory Committee (TAC)	
Appendix B – Metropolitan Area Boundary Map	
Appendix C – Debarment Certification (Negotiated Contracts)	
Appendix D – Lobbying Certification - Certificate for Contracts, Grants, Loans and Cooperative Agreements	
Appendix E – Certification of Compliance	
Appendix F – Certification of Internal Ethics and Compliance Program	
Appendix G – Public Comments on DRAFT FY 2021 – FY 2022 UPWP	
Public Notice – Comment period: June 18, 2020 to August 6, 2020	
Appendix H – Transportation Terms and Abbreviations	
Appendix I – Subtask 1.9 Direct Expenses	
Subtask 1.9 a – Contract Services	
Subtask 1.9 b – Printing/Reproduction Services	
Subtask 1.9 c – Education/Training/Conference	
Subtask 1.9 d – Travel Out-of-State	
Subtask 1.9 e – Travel In-State	
Subtask 1.9 f – Supplies	
Subtask 1.9 g – Support Services	
Subtask 1.9 h – Memberships/Subscriptions/Publications	
Subtask 1.9 i – Maintenance - Software/Equipment	
Subtask 1.9 j – Capital - Furniture/Equipment	



SECTION I. INTRODUCTION AND SUMMARY

Metropolitan Planning Organizations (MPOs) were formed to give local communities a stronger voice in achieving their transportation goals and improving regional transportation planning while avoiding duplication of planning efforts. MPOs exist throughout the United States in all urbanized areas of more than 50,000 people and have the authority to plan, prioritize, and program federal funding for transportation projects in urban/metropolitan areas. The Corpus Christi MPO Transportation Policy Committee (TPC) is the designated forum for municipalities, counties, transit agencies, tribal governments, state and private agencies to address regional transportation issues. The U.S. Department of Transportation (USDOT) has established policy guidelines to improve regional transportation planning and give local communities a stronger voice in achieving their transportation goals while avoiding duplication of planning efforts. As the designated metropolitan planning organization Corpus Christi MPO is responsible for carrying out the:

“...continuing, cooperative and comprehensive multimodal transportation planning process, including the development of a metropolitan transportation plan and a transportation improvement program (TIP), that encourages and promotes the safe and efficient development, management, and operation of surface transportation systems to serve the mobility needs of people and freight (including accessible pedestrian walkways and bicycle transportation facilities) and foster economic growth and development, while minimizing transportation-related fuel consumption and air pollution” (23 CFR 450.300).”

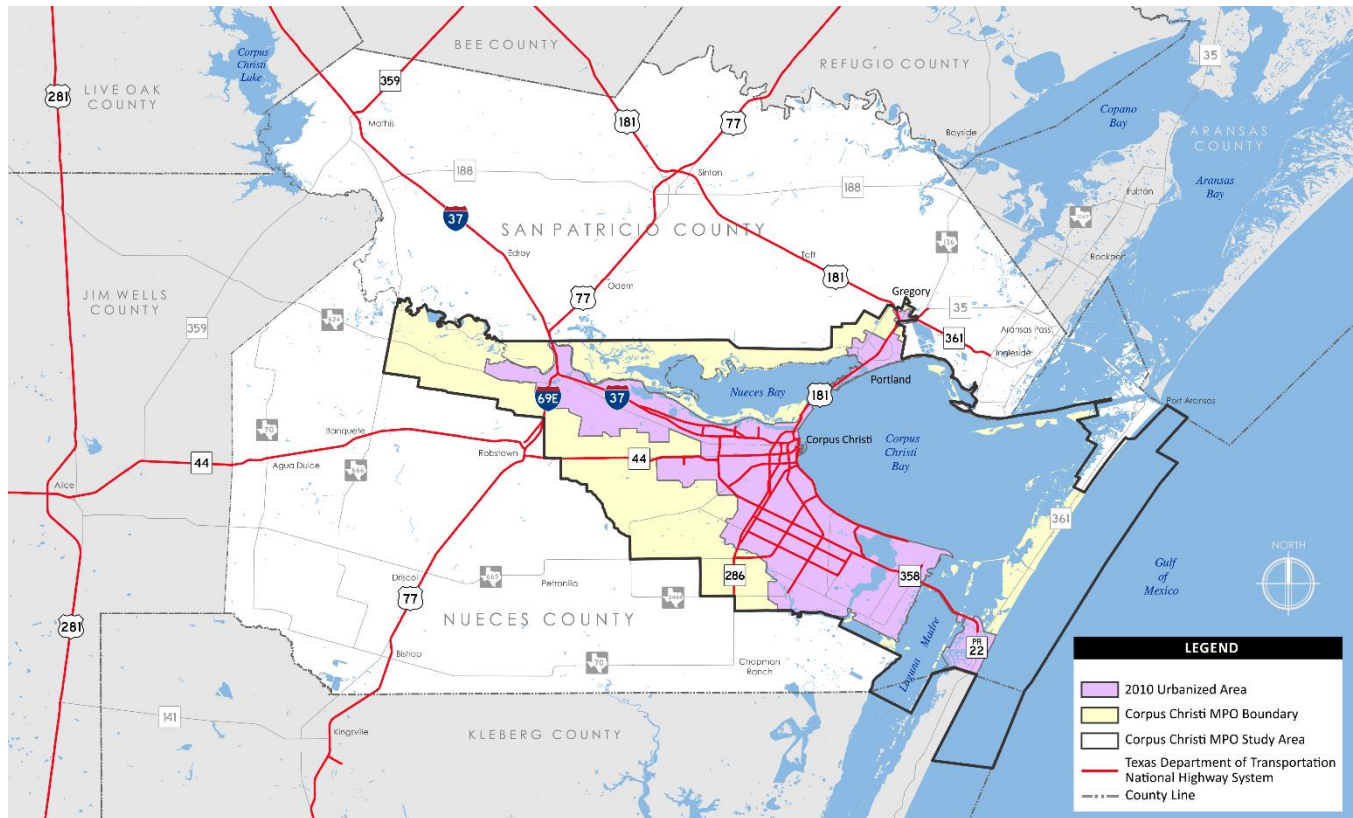
This Unified Planning Work Program (UPWP) identifies all transportation and related planning activities, no matter who is performing the work and the source of funding, if it is undertaken within the Corpus Christi Metropolitan Planning Area (MPA) during the federal years beginning October 1, 2020, and ending September 30, 2022. This work program was developed to serve these specific objectives:

1. Define transportation planning activities to meet the transportation needs of local, state, and federal agencies
2. Identify funding sources for planning studies
3. Coordinate transportation planning activities and relationships (both internal and external)
4. Promote the wise use of public resources through sound decision-making and interagency coordination

The Corpus Christi Metropolitan Planning Organization (Corpus Christi MPO) and its Transportation Policy Committee (TPC) have been responsible for conducting the cooperative, comprehensive, and continuing (3C) transportation planning process since 1973. First, as the Corpus Christi Urban Transportation Study, then in Year 2000, as the Corpus Christi Metropolitan Planning Organization. The Corpus Christi MPO Planning Area includes portions of Nueces County and San Patricio County (see Exhibit 1).

This UPWP is required as a basis and condition for all federal funding assistance for transportation planning by the joint planning regulations of the Federal Highway Administration (FHWA) and the Federal Transit Administration (FTA). The guidance from the Federal agencies states: “At a minimum, an UPWP includes a description of the planning work and resulting products, whom will perform the work, time frames for completing the work, the cost of the work, and the source(s) of funds.” (23 C.F.R. 450.308).

EXHIBIT 1. Map of the Corpus Christi Metropolitan Planning Area



This FY 2021 & FY 2022 Unified Planning Work Program (UPWP) documents all the transportation planning activities in the Corpus Christi MPO Planning Area. While the primary focus of this document is the transportation planning performed by Corpus Christi MPO staff, other transportation-related planning activities that are conducted within the boundaries of the Corpus Christi MPO Planning Area by member agencies and partners are also documented.

While the UPWP documents only the activities to be undertaken during the 2-years covered by the UPWP, the basis of the work program is grounded in the on-going requirements of the 5-year metropolitan transportation planning process. The six foundational requirements of a metropolitan planning organization are:

1. Involve the public in the transportation decision-making process.
2. Develop and maintain the Unified Planning Work Program (UPWP);
3. Develop and maintain the Metropolitan Transportation Plan (MTP);
4. Develop and maintain the Transportation Improvement Program (TIP);
5. Develop and maintain the Congestion Management Process (CMP); and
6. Coordinate the development of these products with the State’s planning process

The following five Subtask areas summarize the regional transportation planning activities for the Corpus Christi MPO in FY 2021 – FY 2022:

- **Task 1.0 – Administration and Outreach:** describes administrative support activities such as financial management, contract management, public outreach, travel, equipment purchases, training and

DRAFT FY 2021 – FY 2022 UNIFIED PLANNING WORK PROGRAM (UPWP)

education, and the general management of the MPO. **Direct Expenses** are products and services directly related to the operation of the Corpus Christi MPO to deliver the UPWP tasks.

- **Task 2.0 – Data Development and Maintenance:** describes the collection and cleaning of data. It also involves creating and operating models to analyze existing and forecast future conditions in the region. These activities include the development of socio- economic models, pavement management models, corridor operations models, social and environmental impact models, economic and financial models, and travel demand models to support regional transportation decision-making.
- **Task 3.0 – Short-Range Planning:** addresses planning for activities taking place within a three- to ten-year timeframe, including the Transportation Improvement Program (TIP), the Ten-Year Transportation Plan, as well as transit feasibility studies, ongoing initiatives regarding specialized transit planning, regional bicycle and pedestrian planning and operations improvement planning. Subtask 303 also includes a major update to the Regional Intelligent Transportation System (ITS), as well as efforts to improve traffic safety and evacuation planning in the region.
- **Task 4.0 – Metropolitan Transportation Planning:** describes planning activities for the long-term including development and maintenance of the Metropolitan Transportation Plan (MTP), developing baseline conditions, monitoring changes and reporting progress towards the goals.
- **Task 5.0 – Special Studies:** includes special one-time planning activities, including major corridor studies/analyses, surveys and outreach, and tool development activities.

BUDGET SUMMARY – The following table provides a summary of all funding available for Corpus Christi MPO Staff activities by Subtask and source. A total of \$2,520,000 is available over the 2 years of this work program. Approximately 96 percent of these funds are federal for transportation planning purposes. This balance also includes some Consolidated Planning Grant (CPG) from previous years (carryover) funds that have accumulated. Please note that annual operating costs for the organization consume much of the annually appropriated funds, and some Corpus Christi MPO contracts extend beyond the 2-years of this UPWP. Maintaining a reserve sufficient for these contracts is good accounting practice. Some of this accumulated funding is needed to address major planning and development and simulation model support. All carryover FTA planning funds are allocated to work tasks in this UPWP. FHWA “carryover” funds were budgeted to continue major contractual activities in preparation for the 2050 MTP development in each of the next two UPWP program years. Similar programming is planned in the subsequent two year work program to complete the FY 2023-FY 2026 TIP, further reducing the carryover balance, leaving some in reserve to address continuity of operations in the event of disruption in federal funding post-FAST Act, for staff operational costs plus open contractual commitments.

EXHIBIT 2. Corpus Christi MPO 2-Year Budget Summary for FY 2021 and FY 2022

UPWP Task	Description	2-Year TPF ¹ Federal Funds	FY 2021 Federal Funds	FY 2022 Federal Funds	State Funds	Other Funds	Total Funds
1.0	Administration-Management	\$1,314,000	\$659,000	\$655,000	\$0	\$100,000	\$1,414,000
2.0	Data Development and Maintenance	\$315,000	\$172,000	\$143,000	\$0	\$0	\$315,000
3.0	Short Range Planning	\$362,000	\$181,000	\$181,000	\$0	\$0	\$362,000
4.0	Metropolitan Transportation Planning	\$349,000	\$235,000	\$114,000	\$0	\$0	\$349,000
5.0 ²	Special Studies	\$80,000	\$40,000	\$40,000	\$0	\$0	\$80,000
TOTAL		\$2,420,000	\$1,287,000	\$1,133,000	\$0	\$100,000	\$2,520,000

¹ TPF – This includes both FHWA PL-112 and FTA Section 5303 Funds. TxDOT will apply transportation development credits sufficient to provide the match for TPF. As the credits reflect neither cash nor man-hours, they are not reflected in the funding tables.

²Strategic Reserves funded special projects TBD by TPC. Estimated cost: \$100,000. (\$50,000 annually).

DRAFT FY 2021 – FY 2022 UNIFIED PLANNING WORK PROGRAM (UPWP)

Combined Transportation Planning Funds ³	\$2,516,450
Estimated Unexpected Carryover	\$3,550
TOTAL Transportation Planning Funds	\$2,520,000

³Estimated base on prior year's authorizations

The revenue utilized for Corpus Christi MPO 's work activities documented in the FY 2021 & FY 2022 UPWP originates from federal and non-federal sources (See Section 2). These funds are allocated to work activities in accordance with appropriate regulations and are used to pay for program expenditures by the MPO Transportation Planning Program. Federal planning funds, available from both FHWA (PL funds) and FTA (5303 funds), are administered by TxDOT through the Consolidated Planning Grant (CPG) Program. CPG funds are allocated to Corpus Christi MPO. Non-federal funds are provided to Corpus Christi MPO from dues paid by its member entities, and through grants and other ad hoc funding sources.

A. PURPOSE

This Unified Planning Work Program (UPWP) identifies all transportation and significant transportation-related planning activities that will occur within the Corpus Christi Metropolitan Planning Area (MPA) during the federal years beginning October 1, 2020; and ending September 30, 2022. This work program serves these specific objectives:

- List all transportation planning and related activities conducted by local, state, and federal agencies
- Identify funding sources for planning studies
- Coordinate transportation planning activities within the region (both internal and external)
- Promote the wise use of public resources through sound decision-making and interagency coordination

The Corpus Christi MPO must also develop and implement a Public Participation Process (PPP) that provides complete information, timely notification, and public access to the planning process. The most recent version of this was adopted April 5, 2018. The PPP is designed to educate and inform the public about transportation and to provide the public with opportunities to contribute their ideas and opinions early and often throughout the planning process. MPO staff will design activities to develop partnerships with, and enhance the participation in the transportation planning process, by groups and individuals of "traditionally underserved" communities. Thus, creating a transportation planning process that is accessible, inclusive, and proactive.

In addition to proactive public outreach incorporating Environmental Justice and Title VI considerations, federal regulations require extensive coordination with federal, state, and local agencies. 23 US Code § 134(h) identifies ten specific factors of the metropolitan transportation planning process, these are described in detail below, in Section 1.5.

Federal transportation legislation now requires using performance-based planning and programming processes. These increase accountability and transparency of transportation investments. MPOs are required to establish performance measures for the first six of the seven national goals outlined in U.S.C. 23 Sec 150(b).

EXHIBIT 3. Adopted National Goals

1. **Safety** - Achieve a significant reduction in traffic fatalities and serious injuries on all public roads.
2. **Infrastructure condition** - Maintain the highway infrastructure asset system in a state of good repair.
3. **Congestion reduction** - Achieve a significant reduction in congestion on the National Highway System.
4. **System reliability** - Improve the efficiency of the surface transportation system.
5. **Freight movement and economic vitality** - Improve the national freight network, strengthen the ability of rural communities to access national and international trade markets, and support regional economic development.
6. **Environmental sustainability** - Enhance the performance of the transportation system while protecting and enhancing the natural environment.
7. **Reduced project delivery delays** - Reduce project costs, promote jobs and the economy, and expedite the movement of people and goods by accelerating project completion through eliminating delays in the

project development and delivery process, including reducing regulatory burdens and improving agencies' work practices.

B. DEFINITION OF AREA: THE CORPUS CHRISTI METROPOLITAN PLANNING AREA

Based on the 2010 Census, the Census Bureau made only minor adjustments to the boundary for the Corpus Christi urbanized area, (See Exhibit 1) which includes the cities of Corpus Christi, Portland, and Gregory, along with unincorporated areas in Nueces and San Patricio Counties. Exhibit 1 maps the Census Designated UZA, the adopted MPO metropolitan planning area boundary, and the Metropolitan Study Area. Growth in population and expansion of the developed areas may lead to adjustments in the boundaries based on the 2020 Census. By federal definition, the MPO's planning area must at least include the urbanized area (as defined by the U.S. Census Bureau) and the contiguous area that may reasonably be expected to become urbanized in the next 20 years. The 2010 Census designated urbanized area has a population of 320,069 in a 120 square mile land area.

C. ORGANIZATION

Nueces County is the fiscal agent for the Corpus Christi MPO. The Transportation Policy Committee (TPC) was designated as the governing Board for the Corpus Christi MPO in June 2000. The Corpus Christi MPO TPC has seven voting positions (4 are Elected, 3 are Appointed) and up to 10 non-voting members.

The seven Voting Members of the Transportation Policy Committee are:

1. Mayor, City of Portland
2. Mayor, City of Corpus Christi
3. County Judge, San Patricio County
4. County Judge, Nueces County
5. An Official Designated by the, Corpus Christi Regional Transportation Authority
6. An Official Designated by the, Port of Corpus Christi Authority
7. An Official Designated by the District Engineer, Texas Department of Transportation, Corpus Christi District

There are ten potential Non-Voting Members of the Transportation Policy Committee, they are:

1. One representative of the Federal Highway Administration
2. One representative of the Federal Transit Administration
3. One representative of the Coastal Bend Council of Governments
4. One representative of the Texas Natural Resource Conservation Commission
5. United States Congress, Texas 27th District: (Michael Cloud)
6. Texas State Senate District 20: (Juan "Chuy" Hinojosa)
7. Texas State Senate District 21 (Judith Zaffirini)
8. State Representative District 34: (Abel Herrero)
9. State Representative District 32 (Todd A. Hunter)
10. State Representative District 43 (J. M. Lozano)

Rules of the Corpus Christi MPO (Bylaws) are maintained by the organization. The Rules and other documents noted above are kept on file and are readily available for review at the Corpus Christi MPO office and on the Corpus Christi MPO website: http://www.corpuschristi-mpo.org/02_bylaws/corpuschristimpo_bylaw_20160916.pdf

The Corpus Christi MPO TPC's responsibilities, defined in the Bylaws are:

1. Approve goals and objectives of the transportation planning process.
2. Review and adopt changes in transportation planning concepts.
3. Review and approve the Unified Planning Work Program (UPWP).
4. Review and adopt the Transportation Improvement Program (TIP) including project priorities and approve any changes in the priority schedule.
5. Review and adopt the Metropolitan Transportation Plan (MTP) and its revisions.

DRAFT FY 2021 – FY 2022 UNIFIED PLANNING WORK PROGRAM (UPWP)

6. Ensure the efficient and effective use of the Federal Highway Administration (FHWA) Section 112 and the Federal Transit Administration (FTA) Section 5303 planning funds.
7. Encourage the development, implementation, and surveillance of plans to reduce transportation generated air pollution within the study area.
8. Serve as liaison representatives between various governmental units in the study area to obtain optimum cooperation of all governmental units in implementing various elements of the plan.
9. Ensure citizen participation in the transportation planning process through a proactive policy.
10. Hire, terminate, evaluate, and supervise the Transportation Planning Director.
11. Establish for the MPO staff the salary, salary range, annual or more frequent personnel performance reviews and salary increases based on performance and cost of living indices.
12. Adopt personnel policies and procedures adapted from the personnel policies and procedures of Nueces County for the conduct, rights, and responsibilities of the MPO Staff.

The Corpus Christi MPO responsibilities listed in the Metropolitan Transportation Planning Agreement with TxDOT, are:

1. Document planning activities in a UPWP to indicate who will perform the work, the schedule for completing it, and all products that will be produced. In cooperation with the Department and public transportation operators as defined by 23 CFR Part 450, the MPO must annually or bi-annually develop a UPWP that meets federal requirements.
2. Prepare and submit to the Department an annual performance and expenditure report of progress no later than December 31 of each year. A uniform format for the annual report will be established by the Department, in consultation with the MPOs.
3. Use funds provided in accordance with 43 Texas Administrative Code 16.52 and Article 2 of this agreement to develop and maintain a comprehensive regional transportation planning program in conformity with the requirements of 23 USC 134, 49 USC 5303 and the Texas Comptroller of Public Accounts Uniform Grant Management Standards.
4. Develop a Metropolitan Transportation Plan (MTP), a Transportation Improvement Program (TIP), and a UPWP for the Metropolitan Planning Area (MPA), all of which are consistent with the Statewide Long-Range Transportation Plan (SLRTP), as required by the state and federal law. At a minimum, the MPO shall consider in their planning process the applicable factors outlined in 23 USC 134.
5. Assemble and maintain an adequate, competent staff with the knowledge and experience that will enable them to perform all appropriate MPO activities required by law.
6. Forecast, collect, and maintain appropriate socio-economic, roadway, and travel data on a timely basis, in cooperation with the Department.
7. Prepare all required plans, programs, reports, data, and obtain required certifications in a timely manner.
8. Share information with the Department and information sources concerning transportation planning issues.
9. Use funds provided in accordance with Article 2, Section 1 of MTPC to develop and maintain a comprehensive regional transportation planning program in conformity with requirements of 23 USC Section 134(f) and 49 USC Section 5303.
10. Develop and adopt an MTP that meets federal and state laws, a Transportation Improvement Program (TIP) that is incorporated without modification into the STIP, and a UPWP, along with other planning documents and reports required by state and federal laws and regulations.

The Corpus Christi MPO Technical Advisory Committee (TAC) includes seven voting members and up to 10 non-voting members could be appointed by the TPC. The Technical Advisory Committee reports directly to the Transportation Policy Committee and works closely with the MPO staff. The Technical Advisory Committee has the following responsibilities:

1. Assist the Transportation Policy Committee with technical tasks associated with developing the Unified Planning Work Program (UPWP) and recommend its adoption by the Transportation Policy Committee.

2. Review transportation related studies within the Corpus Christi Metropolitan Planning Area and make recommendations to the Transportation Policy Committee and other agencies.
3. Provide technical support in the preparation of Metropolitan Transportation Plan and recommend its adoption by the Transportation Policy Committee.
4. Review the Transportation Improvement Program (TIP) and other high priority projects. Recommend its adoption by the Transportation Policy Committee.
5. Advise the Transportation Policy Committee on technical matters and, if specifically authorized by the Transportation Policy Committee, on the policy matters with accompanying recommendations and supporting rationale.

D. PRIVATE SECTOR INVOLVEMENT

The private sector is actively involved in planning efforts outlined in this FY 2021 – FY 2022 UPWP. The Corpus Christi MPO will accomplish some work tasks identified in the UPWP with specialized assistance from consultants. Consultants will be under contract with Corpus Christi MPO during FY 2021 and FY 2022 to assist with travel and land use model development and applications, public involvement efforts, and in several planning studies. These are noted in the applicable work items.

The Corpus Christi MPO utilizes the Nueces County Procurement Policy to guide the procurement process. It is likely that on-call Service Agreements will be solicited from multiple planning firms to assist with these varied efforts. As part of the development and implementation of the UPWP, Corpus Christi MPO staff, in cooperation with local governments and TxDOT identify work subtasks that consultant assistance is likely. As individual projects move forward, a Request for Proposals (RFP), which includes an overview of the work, is issued for each of these projects. Corpus Christi MPO publishes a notice of intent to retain consultant services on the Corpus Christi MPO website. A review committee is established to review proposals and provide recommendations to the Corpus Christi MPO TPC. The Subtasks that private sector consultants may participate in include:

- Subtask 1.7 Planning Outreach
- Subtask 2.2 Travel Demand and Corridor Model Development and Update
- Subtask 2.3 Socio economic and Land-use Model
- Subtask 2.4 Crash Data and Analyses Model
- Subtask 3.3 Active and Micro-mobility Transportation Planning
- Subtask 3.5 Short-Term Transit Planning
- Subtask 3.9 Regional Specialized Transit Coordination Plan Update
- TASK 4.0 Metropolitan Transportation Plan (MTP)

E. PLANNING ISSUES AND EMPHASIS

The Fixing America’s Surface Transportation (or FAST) Act became law on December 4, 2015. The FAST Act, as enumerated in CFR 450.306, includes 11 total factors; the eight (8) factors originally outlined in SAFETEA-LU (adopted on August 10, 2005), as well as three additional considerations that the metropolitan planning process must explicitly consider and analyze. These areas are issues of national concern. Specifically, and in alphabetical order as opposed to any implied priority, FAST compliant metropolitan and statewide planning processes must consider transportation projects and strategies that will:

- Emphasize the preservation of the existing transportation system.
- Enhance the integration and connectivity of the transportation system, across and between modes, for people and freight
- Enhance travel and tourism
- Improve transportation system resiliency and reliability
- Increase accessibility and mobility of people and freight
- Increase the safety of the transportation system for motorized and non-motorized users
- Increase the security of the transportation system for motorized and non-motorized users
- Promote efficient system management and operation

- Protect and enhance the environment, promote energy conservation, improve quality of life, and promote consistency between transportation improvements and State and local planned growth and economic development patterns
- Reduce (or mitigate) the stormwater impacts of surface transportation
- Support the economic vitality of the metropolitan area, especially by enabling global competitiveness, productivity, and efficiency

The FAST Act continues to promote an efficient and effective Federal surface transportation program by focusing on transportation issues of national significance, while giving regional transportation decision-makers flexibility for solving transportation problems in their communities. Under FAST, metropolitan and statewide transportation planning processes are continued, but changes made by the previous federal transportation act, Moving Ahead for Progress in the 21st Century Act (MAP-21), were continued to enhance the planning process for surface transportation; some of these changes add flexibility and efficiency, while others add new consultation and environmental planning requirements. Consultation requirements for states and MPOs remain significantly expanded; and requirements continue for plans to address environmental mitigation, improved performance, multimodal capacity, and enhancement activities. Bicycle, pedestrian, and disabled interests must also be represented.

In addition, during the planning and programming processes, the Corpus Christi MPO will consider the principles adopted by the United States Department of Transportation as a result of its partnership with both the United States Department of Housing and Urban Development and the United States Environmental Protection Agency. These principles are:

1. Provide more transportation choices to decrease household transportation costs, reduce our dependence on foreign oil, improve air quality and promote public health.
2. Expand location and energy efficient housing choices for people of all ages, incomes, races and ethnicities to increase mobility and lower the combined cost of housing and transportation.
3. Improve economic competitiveness of neighborhoods by giving people reliable access to employment centers, educational opportunities, services and other basic needs.
4. Target federal funding toward existing communities through transit-oriented and land recycling to revitalize communities, reduce public works costs, and safeguard rural landscapes.
5. Align federal policies and funding to remove barriers to collaboration, leverage funding and increase the effectiveness of programs to plan for future growth.
6. Enhance the unique characteristics of all communities by investing in healthy, safe and walkable neighborhoods, whether rural, urban or suburban.

UPWP's in Texas are organized into Tasks. Tasks 1.0 through 5.0 relate to activities accomplished directly by the Corpus Christi MPO staff and are formatted to show the purpose, objective, methodology, expected products, schedule, previous accomplishments, and budget summary. Subtask 1.9 documents expected direct expenses, including contract services, printing, travel, training, office supplies, support services, memberships and publications, equipment, and maintenance expenditures. This FY 2021 and FY 2022 UPWP addresses many interrelated multimodal transportation issues that support implementing transportation projects and programs to reduce crashes, reduce congestion and improve mobility and accessibility. Specific areas of emphasis are highlighted below.

Crash Reduction and Safety Enhancement

Safety on the transportation system is a national, state, regional and local priority. Data collection, analysis, training, education, and enforcement are key aspects of improving transportation system safety. The Corpus Christi MPO will use available data, intense data analysis, and collaborate with stakeholders to improve safety on the region's roads. Locations and types of crashes to focus on are determined by the data, as well as characteristics such as the types of facilities and roadway conditions (e.g. wet weather, lighting). The FY 2021 and FY 2022 UPWP will allow MPO staff to acquire data and develop tools and processes to identify locations, projects and policies to reduce injuries and fatalities and speed up incident clearance times.

Lifecycle Planning

Traditionally, in an effort to construct the greatest number of new projects within limited capital budgets, high importance was placed on construction costs, with little attention given to future costs. As infrastructure ages it is apparent that improving long-term decision-making requires planners and policy-makers to think more strategically about how to operate and maintain the transportation network and manage related assets. Shifting the focus of funding toward system preservation requires greater use of analysis that looks at both upfront and long-term costs while considering the viability of future budgets and better management of vital infrastructure. Life-cycle Cost Analysis (LCCA) calculates up-front development, capital and financing costs, discounted operating and maintenance costs, and end-of-life costs associated with a specific asset or project. LCCA can also factor in uncertainty, risk, and other elements including environmental and equity considerations. When performed correctly, LCCA enables a more accurate and less biased comparison of differing life cycle costs between transportation projects and alternatives.

Improving Roadway Operations

Increasing traffic congestion is an issue in the region. Faced with growing travel demand and limited resources, planners and policymakers are developing strategies to improve the operation of the existing system. Although major capital investments are needed to meet the growing travel demand, operational management strategies can postpone the need for major capital investments until funding sources can be identified. The results are a more efficient and effective transportation system, increased mobility and leveraging of resources. The MPO will provide proper support in updating the Regional ITS Architecture and Deployment Plan and begin work toward a regional Transportation System Management and Operations Plan.

Data Collection and Enhanced Model Development

The Corpus Christi MPO will find data gathering synergies among agencies to magnify individual effort effectiveness and maximize regional efficiency. The Corpus Christi MPO will collaborate with local agencies to assess existing land use and develop future land use scenarios along CMP Corridors. These scenarios will aid planning for the future transportation system and evaluate land use policy regulation and operations for each CMP Corridor that address the overall community vision, goals, and objectives. The Corpus Christi MPO will collaborate with local agencies to develop and analyze land use scenarios to support the vision for the corridor. The 2020 Census data will begin arriving during the operational times of this UPWP. These data will be combined with other land-use data to create tools to refine growth and development forecasting that is essential to transportation forecasting.

Travel-related data and models are building blocks of a performance-based planning and programming process. The data and models provide analytical capability to objectively analyze different projects or policies and create consistent and useful information to aid decision-making. During Fiscal Years 2021 and 2022, the emphasis on data collection and improvements to the travel model and implementation of other performance target related models will continue. The data collection initiatives include the following: traffic counts on the mainline as well as turning movement counts, bicycle counts where appropriate, and related transportation surveys.

Coordinate Planning Documents

Environmental stewardship in transportation is a key requirement of the FAST Act. The Corpus Christi MPO will undertake efforts to improve coordination between transportation planning and conservation and community planning processes. These efforts will benefit the region by incorporating environmental and community values into transportation decisions earlier in the planning process and identifying strategies to reduce negative impacts during planning, design, construction, and operations. Determining negative impacts earlier in the transportation planning process promotes more efficient decision making and minimizes duplication of effort, promotes stewardship, and reduces delays in project implementation. In FY 2021 and FY 2022, the Corpus Christi MPO will strive to develop closer partnerships with development and resource agencies and stakeholders to identify key issues (related to both the natural and built environs), identify mitigation strategies for transportation impacts and build partnerships with aimed at environmental stewardship.

Incorporating Technology

According to the Federal Highway Administration:

“Transportation is in the midst of disruptive change from new technologies (automated and connected vehicles); new institutions (shared mobility firms); and changing attitudes (reduced car ownership). Across the nation, transportation planners are under pressure to develop performance-oriented policies, plans, and investment decisions that consider an increasingly complex transportation landscape. In the process, planners need to consider, but cannot yet reliably predict, the potential impact of disruptive and transformational Connected Vehicle (CV) and Automated Vehicle (AV) technologies on safety, vehicle ownership, road capacity, VMT, land-use, roadway design, future investment demands, and economic development, among others. While some forms of CV and AV are already being deployed across the United States, significant unknowns exist regarding the rate of technology adoption, which types of technologies will prevail in the marketplace, the interaction between CV/AV vehicles and various forms of shared mobility services, and the impacts of interim and widespread levels of CV/ AV usage.”

Adopting and supporting innovative technologies and business practices may lead to great improvements in safety, transportation choices, and regional quality of life for our visitors and the local economy. Though there is a great deal of speculation and uncertainty of the potential impacts these technologies will have, MPOs need to determine how best to address the challenges and opportunities presented to them by ACES vehicles. There is a substantial level of interest in Automated/Connected/Electric/Shared-Use (ACES) Vehicles and the potential impacts of these technologies on the transportation system. There is also a great deal of speculation and uncertainty of the potential impacts from these technologies. ACES may lead to great changes in safety, transportation choices, and quality of life. The Corpus Christi MPO supports innovative technologies and business practices to address the challenges and opportunities presented by ACES vehicles. The MPO will increasingly incorporate emerging technologies into the metropolitan planning process. Activities in FY 2021 and FY 2022 will plan for the arrival of these vehicles, focusing on the implications of automated vehicles on travel demand, land-use, and congestion. Planning tools, including travel forecasting models, will need to account for these emerging technologies in the system. Automated vehicles are also being discussed in the context of freight, transit, and people mover/shuttle systems.

Freight Planning

Freight facilities and services are strongly linked to regional economic competitiveness and quality of life and, from a transportation perspective, freight shipments continue to grow steadily across all modes. Planning for freight is also an effective means of addressing safety, security, environmental, and air quality issues. An objective of the freight program is to initiate and sustain meaningful outreach to the local freight community and to build awareness and expertise among planners and the general public. The Technical Advisory Committee (TAC) also serves as the Corpus Christi MPO’s Freight Advisory Committee will be the focal point of this effort.

Resiliency Planning

The Corpus Christi Metropolitan Study Area is susceptible to a wide range of natural hazards, including floods, hurricanes and tropical storms, drought, extreme heat, lightning, coastal erosion, hailstorms, tornados, dam and levee failure, land subsidence, expansive soils, and wildfire. These life-threatening hazards can destroy property, disrupt the economy, and lower the overall quality of life for residence. The impact of hazards can be lessened in terms of their effect on people and property through effective hazard mitigation action planning and implementation. The MPO will participate more fully in Resiliency Planning and Evacuation activities. The focus of resiliency planning is to reduce future losses within the Study Area by identifying mitigation strategies based on a detailed hazard risk analysis, including both an assessment of regional hazards and vulnerability. The mitigation strategies will identify potential loss-reduction opportunities. The goal of this effort is to work towards more disaster-resistant and resilient communities.

Micro-mobility and Nonmotorized Planning

An ongoing challenge facing planners and public officials grasping emerging micro-mobility modes, such as electric scooters, electric bikes, and powered skateboards. While shared micro-mobility devices look like they might garner a measurable share of the urban transportation market, at this stage, planners and decision-makers around the country are primarily working to understand the impacts of micro-mobility and how to incorporate it into existing transportation systems. Confusion about how to classify these new vehicles and services and what to call them is contributing to vague regulations. The Corpus Christi MPO will monitor and explore possibilities for this emerging mode while also supporting the implementation of the Transportation Policy Council’s adopted pedestrian and bicycle policy goals and recommended actions. This includes maintenance of the MPO’s Mobility Planning documents in conjunction with the 2045 MTP, provision of technical support to local governments, and the hosting of training sessions for best practices.

Military-Community Planning

A major economic generator in the Corpus Christi region is military and defense spending, anchored by Naval Air Station Corpus Christi (NAS-CC) and the Corpus Christi Army Depot (CCAD), the US Department of Defense funds compatible use efforts with the goals of helping communities grow in a way that preserves the military mission while also enhancing quality of life for surrounding communities that may be impacted by the military installations.

F. CORPUS CHRISTI MPO AGREEMENTS

Agreements in force among the participating agencies relative to the metropolitan transportation planning process include:

- Corpus Christi MPO / TXDOT Planning / Nueces County Fiscal Agent MOA signed May 22, 2018
- Corpus Christi MPO / TXDOT TIP / STIP Amendment MOA signed April 1, 2009.
- Corpus Christi MPO / CCRTA MOA signed September 8, 2010

G. STATUS OF CORE CORPUS CHRISTI MPO PLANNING DOCUMENTS

The table below lists the core work products of the Corpus Christi MPO, the adoption date, planning horizon and the time when the next update is due.

EXHIBIT 3. Planning Document Status

Item	Date Adopted	Time Span	Update Due
2019-2020 Unified Planning Work Program (UPWP)	May 3, 2017	2-Years	June 2019
2019-2022 Transportation Improvement Program (TIP)	April 5, 2018	2-Years	July 2020
Annual Self-Certification	June 11, 2018	1-Year	June 2019
Public Participation Plan (PPP)	April 5, 2018	4-Years	April 2022
Title VI / Environmental Justice (EJ) Plan	March 20, 2019	2-Years	March 2021
Congestion Management Process (CMP)	February 6, 2020	5-Years	February 2025
2045 Metropolitan Transportation Plan (MTP)	February 6, 2020	5-Years	February 2025

SECTION II. TASK 1.0 – ADMINISTRATION AND MANAGEMENT

Task 1.0 is managing and administering the federal transportation planning requirements in and for the Corpus Christi Metropolitan Planning Organization. Included in this task are the direct expenses associated with the planning effort and products to be delivered within the UPWP.

OBJECTIVE – Coordinate the transportation planning activities of the MPO with TxDOT, FHWA, and interested public agencies as part of the metropolitan transportation planning process. Maintain records of all activities needed for the comprehensive, coordinated, and continuing (3C) transportation planning process. Take actions to enhance the technical capacity of the planning process and insure a proactive public involvement process that provides full public access to key decisions in developing both short- and long-range plans and programs.

METHODOLOGY – Work elements in this activity are administrative and management tasks associated with the function, coordination, and day-to-day activities of the MPO. The development of department goals and policies; committee structures and staffing; interagency coordination and communication; and staffing of various transportation planning related efforts. Required duties include communicating with the public and committee members regarding meetings, preparation of meeting packets, attendance at meetings, coordination of projects/programs, and oversight of planning activities. Additionally, this task will meet the technical objectives of the organization regarding computer equipment and/or software packages. Direct expenses are listed in subtask 1.9. The additional local funds through the Corpus Christi MPO’s Strategic Reserve Fund pays for special projects and for individual professional membership dues for MPO staff members.

EXPECTED PRODUCTS

Budget/Finance:

- Maintain current planning agreements and execute annual contracts and amendments for planning funds
- Prepare and monitor annual operating budgets
- Consider an annual audit to certify that the proper financial procedures are being considered
- Participate in semi-annual UPWP monitoring meetings with TxDOT

UPWP:

- Prepare updates to the FY 2021 - FY 2022 UPWP and amend FY 2022 funding
- Prepare the FY 2023 - FY 2024 Unified Planning Work Program

APER:

- Prepare Annual Performance and Expenditure Report (APER) on the FY 2020 – FY 2021 UPWP
- Complete and approve the annual budget and annual performance and expenditures completion report

Cooperative Planning:

- Provide data for program reviews and certification. Guidance will be provided to MPO planning partners on various topics related to MPO activities. Of particular importance is the review and assessment of existing and proposed legislation and issues relevant to MPO transportation planning. This will assist in the effective use of member government staff time and clearly identify the roles and responsibilities for MPO partners.
- Regular coordination and consultation will occur between the Corpus Christi MPO staff and state and federal personnel on the development and implementation of all plans and programs. Staff will participate in state, federal, MPO, and locally-sponsored meetings relevant to the MPO transportation planning process. Appropriate reports, maps, documents and other forms of technical transportation assistance will be made available as necessary to the general public and government entities.
- Staff will participate in local planning studies carried out by the Corpus Christi MPO partner entities, as appropriate. These may include, but not are limited to, the planning activities described in Section 4.
- Cooperatively work with transportation-related working groups.

DRAFT FY 2021 – FY 2022 UNIFIED PLANNING WORK PROGRAM (UPWP)

- Work with regional, Federal, and State partners to coordinate transportation planning efforts including transit agencies and adjacent COG planning efforts.
- Monitor best practices for transportation planning by attending workshops and conferences and by participating in industry associations such as Texas Association of MPOs (TEMPO), Transportation for America, American Planning Association, National Academies of Science Transportation Research Board, Association of Metropolitan Planning Organizations, Institute of Transportation Engineers, American Society of Civil Engineers, Texas Transportation Institute, among others.
- Cooperatively work with TxDOT to establish the administrative and technical procedures required to meet federal planning requirements; prepare and review contractual agreements as necessary; participate in MPO meetings; distribute special and annual reports and study documents; review and analyze individual transportation planning projects and studies; and undertake general administrative activities in support of the metropolitan planning program.

Personnel:

- Conduct personnel evaluations;
- Improve the professional capabilities of staff by attending and participating in local, regional, state and national workshops, conferences and coordination meetings;
 - Professional membership dues for individual MPO staff is paid for by the Corpus Christi MPO's Strategic Reserve Fund. Membership dues for the Corpus Christi MPO for TEMPO and AMPO are paid for through the federal PL /CPG funds.

Committees:

- Administer monthly technical and policy meetings including preparing agendas, minutes, materials, and publicizing the information to citizens.
- Staff will continue its ongoing support and participation on the Corpus Christi MPO technical committees, including the Transportation Advisory Committee (TAC),
- Live streaming and recording Committee Meetings.

Public Participation Plan:

- Periodic review of the Public Participation Plan for effectiveness according to 23 CFR 450.210 and 450.316).
- Participate TxDOT's annual PPP audit as requested.
- Evaluate new strategies to enhance current social media activities as a public involvement tool into the Public Participation Plan.
- Update the Public Participation Plan as necessary and follow the procedures when notifying the public. Evaluate the effectiveness of the plan for engaging disadvantaged communities in the decision-making process.

Public Outreach:

- Inform the public about federal-aid improvement projects for the area through a project update report at public meetings and through electronic means.
- Social media, website updates, public notices, media coverage, and news releases to allow the general public to be "in the know". Staff will also answer inquiries electronically, through social media, or in person.
- Continue to maintain/update the Corpus Christi MPO public contact list.

EJ/Title VI:

- Monitor and survey local government's Title VI/ADA programs.
- Provide technical support to local governments for development and implementation of their Title VI plans.

DRAFT FY 2021 – FY 2022 UNIFIED PLANNING WORK PROGRAM (UPWP)

- Develop annual Title VI Goals and Accomplishments Report and add to the appendix of the Title VI Implementation Plan.
 - Ensure that all interested parties are treated equally including but not limited to the elderly, disabled, low income, LEP, and minority populations.
 - Create Title VI programs and update the LEP plan as needed. Determine Environmental Justice and Title VI funding spent in these areas. Ensure that LPAs comply with nondiscrimination requirements and monitor implementation of their Title VI program.
 - Provide Title VI, ADA, and LEP awareness training annually to staff.

General Administrative Function:

- Submit monthly billings for reimbursement.
- Perform general administrative functions such as purchasing, account payable, account receivable, filing, etc.
- Coordinate with the Fiscal Agent on AR, AP activities and monthly billings
- Monitor UPWP task hours and submit the timesheets
- Monitor and manage the Strategic Reserve Fund for Special Projects as required

Federal Compliance/Review/Certification:

- Monitor laws and ordinances including the FAST Act.
- Update the Planning MOA to address FAST Act requirements especially in the sharing, selection, reporting, and data collection of performance targets.
- Continue to monitor LPA's Americans with Disabilities Act Transition Plans and other ADA compliance requirements. Concentrations around transit facilities, schools, disadvantaged populations, social services, and medical areas will be of concern.
- Activities to assist in the FHWA Certification Review and to address any opportunities listed in the report.

MPO Documentation:

- Continue to amend the MPO Employee Handbook policies as needed
- Continue to update/amend the MPO Bylaws as needed
- Prepare updates to the Memorandum of Agreement between the MPO, TxDOT, and CCRTA.
- Continue to update/amend the Committee member orientation book

PREVIOUS ACCOMPLISHMENTS

- Prepared UPWP annual Scope of Work reports and associate updates;
- Submitted monthly financial reports and billings;
- Prepared UPWP progress reports;
- Reviewed and Amended FY-2019 & FY-2020 UPWP (adoption May 2018);
- Attended conferences and training sessions;
- Attended partner agencies workshops, public meetings (GLO, Air Quality Group, Harbor Bridge, CBCOG, etc.);
- Submit Single Audit Statement annually to TxDOT;
- Issued 6 Public Notices,
- Held 6 Open-House Public meetings;
- Closely coordinated with the TxDOT Field Representative and Transportation Project Programming Division for State Required documentation;
- Worked with FHWA for Federal Required documentation (CMP, MTP submission)

SCHEDULE – Consolidated Planning Grant (CPG) contract and financial reports prepared monthly; mid-year UPWP review each April; UPWP annual reports scheduled for completion each December; UPWP amendments as needed; adoption of FY 2023 & FY 2024 UPWP is scheduled for June 2021.

SUBTASKS – The subtasks and their objectives are listed in detail on the following pages.

DRAFT FY 2021 – FY 2022 UNIFIED PLANNING WORK PROGRAM (UPWP)

- Subtask 1.1 Program Coordination and Direction
- Subtask 1.2 Unified Planning Work Program (UPWP) Development
- Subtask 1.3 Monthly Billing and Financial Management
- Subtask 1.4 Staff Training and Education
- Subtask 1.5 Community Planning and Development Activities
- Subtask 1.6 Computer Maintenance and Website Management
- Subtask 1.7 Public Outreach
- Subtask 1.8 Program Evaluation
- Subtask 1.9 Direct Expenses

Full-time staff members will, with the assistance of outside contractors, as needed, perform administrative and technical activities to accomplish the tasks listed in the UPWP. Time is allocated to each employee based on an estimate of anticipated scope of each subtask.

FUNDING SUMMARY:

EXHIBIT 4. TASK 1.0 – ADMINISTRATION AND MANAGEMENT BUDGET SUMMARY

Subtask	Responsible Agency	Transportation Planning Funds (TPF) ¹		FTA Sect. 5307	Local	Total		
		FY 2021	FY 2022			FY 2021	FY 2022	2-Year
1.1	MPO	\$10,000	\$10,000	\$0	\$0	\$10,000	\$10,000	\$20,000
1.2	MPO	\$7,000	\$8,000	\$0	\$0	\$7,000	\$8,000	\$15,000
1.3	MPO	\$30,000	\$30,000	\$0	\$0	\$30,000	\$30,000	\$60,000
1.4	MPO	\$30,000	\$30,000	\$0	\$0	\$30,000	\$30,000	\$60,000
1.5	MPO	\$50,000	\$50,000	\$0	\$0	\$50,000	\$50,000	\$100,000
1.6	MPO	\$21,000	\$21,000	\$0	\$0	\$21,000	\$21,000	\$42,000
1.7	MPO	\$50,000	\$50,000	\$0	\$0	\$50,000	\$50,000	\$100,000
1.8	MPO	\$3,000	\$3,000	\$0	\$0	\$3,000	\$3,000	\$6,000
1.9	MPO	\$458,000	\$453,000	\$0	\$100,000	\$508,000	\$503,000	\$1,011,000
TOTAL		\$659,000	\$655,000	\$0	\$100,000	\$709,000	\$705,000	\$1,414,000

¹ TPF – This includes both FHWA PL-112 and FTA Section 5303 Funds. TxDOT will apply transportation development credits sufficient to provide the match for TPF. As the credits reflect neither cash nor man-hours, they are not reflected in the funding tables.

SUBTASK 1.1 PROGRAM COORDINATION AND DIRECTION

This subtask is the administration of the MPO program. Corpus Christi MPO staff will prepare and submit required reports, certification and administrative documentation to maintain continuity and credibility of the MPO. Staff will also prepare requests for proposals, as required, and solicit for contractual services. Assist participating and collaborating agencies as needed.

SUBTASK 1.2 UNIFIED PLANNING WORK PROGRAM (UPWP) DEVELOPMENT

In this subtask, Corpus Christi MPO staff will maintain and revise the current UPWP for fiscal years by developing and processing changes for any future amendments. Develop the Annual Project Listing (APL) for the

transportation projects that used federal aid in FY 2021 and FY 2022. Corpus Christi MPO staff will also develop the FY 2023 and FY 2024 Unified Planning Work Program under this subtask.

SUBTASK 1.3 MONTHLY BILLING AND FINANCIAL MANAGEMENT

Prepare budgets, maintain financial records, equipment inventory and ensure monies are spent appropriately. Process timesheets, billing and invoicing, budgeting and management of transportation planning funds; the cost of operating the MPO, office lease, furniture, equipment lease/rental. An Annual Performance and Expenditure Report (APER) will be prepared at the end of each fiscal year (FY 2021 & FY 2022) in accordance with TxDOT policy and procedures for tasks that utilized FHWA and FTA planning funds. The Corpus Christi MPO will seek state recommendation / federal approval for any expenditure exceeding \$25,000.

SUBTASK 1.4 STAFF TRAINING AND EDUCATION

Subtask 1.4 is the MPO staff professional development and training program. Transportation planning funds will allow staff members of the MPO to travel and attend transportation planning and professional development conferences, workshops, and training. The MPO will organize training sessions for the Transportation Policy Committee, the Technical Advisory Committee, and any subcommittee members, and to local governments and participating agencies. For out of state travel, the Corpus Christi MPO will seek prior TxDOT approval as appropriate. MPO staff will attend trainings provided by, but not limited, to the following associations:

- American Association of State Highway and Transportation Officials (AASHTO)
- American Society of Civil Engineers (ASCE)
- American Planning Association (APA)
- American Public Transportation Association (APTA)
- Association of Metropolitan Planning Organization (AMPO)
- National Highway Institute (NHI)
- Environmental Systems Research Institute (ESRI)
- Institute of Transportation Engineers (ITE)
- Texas Association of MPOs (TEMPO)
- Texas Department of Transportation (TxDOT)
- Transportation Research Board (TRB)
- National Transit Institute (NTI)

SUBTASK 1.5 COMMUNITY PLANNING AND DEVELOPMENT ACTIVITIES

Subtask 1.5 is sponsoring and conducting meetings, including providing support to both the Transportation Policy Committee and the Technical Advisory Committee, attending mission-related meetings, along with by-law/policy development and implementation. It is also coordinating and working with other agencies in Texas involved in planning and programming transportation projects, especially participation on partner agency committees and in transportation-related community planning efforts.

The Corpus Christi MPO will utilize a regional approach to transportation planning by coordinating planning efforts and cooperating on information gathering and project implementation across multiple agencies – continuing and building upon previous working relationships and coordinating among: Local member government land use and development agencies; economic development agencies, the regional transit agency (CCRTA), environmental resource agencies, community and social agencies, the Texas Department of Transportation (TxDOT); the Federal Highway Administration (FHWA); and the Federal Transit Administration (FTA).

SUBTASK 1.6 COMPUTER MAINTENANCE AND WEBSITE MANAGEMENT

This subtask supports the efficient operation of the MPO office computer equipment and software and updates the MPO website. Acquire supplies, services, software, and equipment to support MPO operations. Equipment purchases over \$5,000 per unit (including the cost of any modifications, attachments, accessories, or auxiliary apparatus necessary to make it usable for the purpose for which it is acquired) require prior State and Federal approval.

The system administrator assures the working order of all computers and supporting systems. Funding is allocated and/or service contracts are in operation for the maintenance and upgrade of all automated information processing equipment and software purchased. Staff will continue updating MPO equipment; audio/video

equipment, server computers, personal computer hardware and software, to include license maintenance of state of practice platforms like ESRI and Caliper. Staff must also stay abreast of current trends in technology. A description of computer hardware and software purchases in excess of \$5,000 will be submitted to TxDOT for approval prior to acquisition. Maintenance of the LAN Network System requires various annual licensing agreements for proprietary software, GIS server support, and web hosting expenses. Website information is updated as information becomes available and agendas and committee packets are published to the website monthly.

SUBTASK 1.7 PUBLIC OUTREACH

It is difficult to engage the public in transportation planning. Many community members are not familiar with technical terms and concepts. Good communication efforts are very different between the public, planners, and decision-makers. Within a performance-based planning and programming process, the goal is to provide objective information to decision-makers, the public and other interested parties on relevant issues so that the target audiences can easily understand issues and trade-offs.

The Corpus Christi MPO will use public outreach and communication to increase transparency and enhance the Corpus Christi MPO's credibility in the eyes of policymakers and the general public. This subtask supports the development and implementation of the Public Participation Plan including the day-to-day responses to the public (via email and/or phone), monitor social media, conduct of community outreach and public meetings/hearings as needed with emphasis on Environmental Justice populations. The Corpus Christi MPO will monitor, evaluate and implement Title VI Civil Rights/Environmental Justice compliance, guidance and requirements for plans and programs; continue to collect and analyze data related to minority or low income populations and the effect of the transportation programs and system on those populations; identify ways to mitigate impacts of the system and programs on the identified populations; expand the database of citizens and businesses in low income or minority areas to facilitate effective outreach to those Populations. General information about MPO activities and events will be posted publicly as part of the Public Participation Process and will provide the opportunity for all stakeholders to provide comments.

The Public Participation Plan is designed to facilitate participation by a range of community members, especially at-risk and traditionally under-served groups including minorities, low-income populations, seniors and individuals with disabilities. Implementation of the tactics outlined in the plan will provide an array of opportunities for meaningful public involvement and ensure compliance with all applicable federal regulations. Outreach efforts will be undertaken as necessary in support of transportation planning activities as they occur.

Engage diverse stakeholders by “going to them” and integrating all voices into the decision-making process:

The Corpus Christi MPO will identify events with other agencies and organizations as possible opportunities for outreach. The intent is to do outreach at existing events and meetings, and to engage those audiences during the course of their regularly scheduled meetings and events.

Engage Local Officials: In 2021 and 2022 the MPO will hold sub-regional meetings for local elected officials and municipal staff with the purpose of informing them about the Corpus Christi MPO's role in the region and their communities' role within the MPO and soliciting input on the region's transportation needs and long-range plan. Staff will have ongoing one-on-one meetings with newly elected officials and provide opportunities for all elected officials to engage with Corpus Christi MPO decision-making.

Engage vulnerable populations: The public involvement processes used to develop the transportation plan and investment programs must include a process for “seeking out and considering the needs of those traditionally underserved by existing transportation systems, such as low income and minority households, who may face challenges accessing employment and other services.” USC 450.318

Understand residents' priorities through public opinion research: Gathering qualitative and quantitative information on the public's priorities can involve ranking different goals or outcomes to help support making tradeoffs and prioritizing investments. The Corpus Christi MPO will solicit public opinion via an electronic

survey. The MPO will continue to gather data on public opinion using thorough outreach efforts such as the update to the Metropolitan Transportation Plan, as well as through general outreach such as surveys.

Inform the public through collateral, e-dashboard, website, media and social media: As the Corpus Christi MPO gathers increasing amounts of data and expands our analysis capabilities, we will work to provide this wealth of information to the public in an interactive way. Having readily accessible information about performance can not only help drive performance-based planning but can also strengthen outreach to stakeholders and other agencies. By enhancing the website, users can efficiently access MPO materials, including meeting agendas, reports and studies. Staff will continue to engage with the media on the progress of the regional priorities and other transportation issues impacting transportation. The Corpus Christi MPO will develop and maintain a data dashboard which provides members with transportation data specific to their municipalities and the region.

Use Visualizations: Visualizations help translate data into more easily understood graphics and images and more effectively communicate information. Visualizations are highly useful in a performance-based planning process to communicate performance information, particularly for complex, spatially relevant transportation data. The intent of visualization in public engagement is to help the public understand the context, to add insight to problem solving and to communicate with the public. It is used to communicate performance measures, trends and impacts of strategies to the transportation system. Visualization also can help communicate the complex nature of trade-offs between investing in various types of transportation projects and programs.

SUBTASK 1.8 – PROGRAM EVALUATION

The MPO will review and evaluate the work accomplished during the previous fiscal year under this subtask. This effort will provide analysis for lessons learned, best practices and recommendations for future planning, training, and process development. As improvement actions are identified and addressed, it is important that any relevant plans, policies, and procedures are updated accordingly.

The Corpus Christi MPO staff will develop an After-Action Report to identify strengths of planning and programming processes that should be maintained and built upon, as well as identifying potential areas for improvement. This includes developing / reviewing processes of the Transportation Improvement Program, Metropolitan Transportation Plan and other planning products; develop and use questionnaires, online surveys, and other participation techniques; and provide bilingual materials and translations as appropriate to ensure the Corpus Christi MPO's plans, programs and activities comply with Title VI / EJ guidance and requirements, collecting and analyzing data related to minority, low income, limited English proficiency and other populations vulnerable to potential disproportional adverse impacts from the planned transportation system and transportation projects. Implementing the Limited English Proficiency Plan and updating that plan as needed. For each major step in the MTP and TIP processes answers to the following questions will be sought:

- What did we want to accomplish?
- How did this change as the process progressed?
- What did the process accomplish?
- Why was there a difference between what we wanted to do and what we did?
- What went well and why?
- What could have gone better?
- What advice would you give yourself if you were to go back to where you were at the start of the project?
- What should we have learned from this project a year from now?
- How do we adapt our processes for a better outcome OR how do we repeat our successes?

SUBTASK 1.9 – DIRECT EXPENSES

Direct Expenses are products and services directly related to the operation of the Corpus Christi MPO to deliver the UPWP tasks. Typically, these products and services are paid for directly through purchase orders and contracts, leases, and agreements. These generally include: office rent, fiscal agent services, consultant contracts, external demographic and planning datasets and supporting information, communications costs for leases and equipment, office supplies and equipment purchases or leases, conference expenses, travel costs, paper, computer equipment and IT system components and software and the associated maintenance fees.

Budget items for direct expenses are shown below and detailed in Appendix I.

SUBTASK 1.9 EXPENDITURES				
FY 2021 – FY 2022 Direct Expense Revenues by Source		FY 2021	FY 2022	
		Federal Funds	\$408,000	\$403,000
		Other Funds	\$50,000	\$50,000
FY 2021 – FY 2022 Direct Expense Expenditures by Subtask		FY 2021	FY 2022	
Subtask	Direct Expense	Amount	Amount	
1.9 a	Contract Services: Fiscal Agent, Office Rent, Traffic and Special Studies, Consultant assistance as needed	\$408,000	\$408,000	
1.9 b	Printing/Reproduction Services	\$3,500	\$3,500	
1.9 c	Education/Training/Conference	\$4,000	\$4,000	
1.9 d	Travel Out-of-State	\$5,500	\$5,500	
1.9 e	Travel In-State	\$2,500	\$2,500	
1.9 f	Supplies	\$6,000	\$6,000	
1.9 g	Support Services	\$5,500	\$5,500	
1.9 h	Memberships/Subscriptions/Publications	\$2,500	\$2,500	
1.9 i	Maintenance - Software/Equipment	\$5,500	\$5,500	
1.9 j	Capital - Furniture/Equipment	\$15,000	\$10,000	
Direct Expenses		\$458,000	\$453,000	

SECTION III. TASK 2.0 – DATA DEVELOPMENT AND ANALYSES

The Corpus Christi MPO intends to develop a systematic data collection or performance monitoring processes sufficient to meet the multitude of federal performance-based planning and programming requirements. The MPO team will update information describing existing and forecast transportation conditions and other related social, economic, and ecological conditions to support analyses and comparing performance against adopted goals and objectives. The data must support the future analyses at a level that allows comparison between individual investments and identification of tradeoffs within investments. There must be sufficient detail on investments to compare their relative effectiveness and identify tradeoffs between investments across the spectrum of goals.

OBJECTIVE – The Corpus Christi MPO will collect data primarily using collaborative partnerships with member agencies, including local governments, TxDOT, CCRTA, and other partner agencies. When data must be directly acquired, the Corpus Christi MPO uses a 3-tier system to economize collection efforts: Corridors of Concern, Corridors of Note, and Areas of Interest. Gathering socio-economic data, traffic count data, travel speed data, accident surveillance and analysis, infrastructure condition data, and non- motorized and transit usage data to provide the information upon which all other planning and programming activities will draw. The metropolitan planning process involves extensive use of various forms of data including population, income, household size, employment, car ownership, street configuration, street capacity, traffic counts, bicycle counts, and land use. Collecting data on traffic conditions, roadway conditions, and system users are vital components of efficient and effective performance-based processes. Data helps leaders make informed investment decisions regarding investments into roadway maintenance and expansion priorities and can even feed into other technologies to provide real-time feedback and help maximize operational performance. Data can also keep travelers informed and safe. Examples of data used every day in transportation planning include cellular and Bluetooth data, which can record travel times, travel direction, and provide information about trip origin/destination. Inductive loop detection, video vehicle detection, and Bluetooth detection can provide accurate counts of vehicles and bicycles using a facility. These technologies can also assist signal timing, alerting signals when users are approaching or at an intersection. More recently, communities have begun investing in fiber-optic networks to help connect the data driven components of the transportation network.

METHODOLOGY – The Corpus Christi MPO is committed to monitoring performance of the transportation system at both the regional scale and corridor scale and using our findings to inform and prioritize both capital investments and implementation of policies that impact transportation. This work task is needed to monitor area travel characteristics and factors affecting travel such as socioeconomic, community and land use data, transportation system data, natural, physical, and human environmental concerns and issues in the Corpus Christi Metropolitan Area. Task 2.0 maintains and expands the transportation, socioeconomic, environmental, and land-use data and encompasses the development of models to forecast future conditions. The data will support statistical analyses for a wide variety of performance-based planning activities.

EXPECTED PRODUCTS

GIS Database Management:

- Maintain an up-to-date GIS portal that is publicly accessible through the MPO website.
- Dissemination, upon request and as appropriate, of data to inform regional planning efforts.
- Maintain an up-to-date GIS database that incorporates Census Bureau and Census Transportation Planning Package (CTPP) 2010 data, Traffic Analysis Zone (TAZ) data, and the Travel Demand Model database.
- Technical support to partners to facilitate effective use of the data generated by the updated model.

TDM and Corridor Model:

- Beginning in 2021, and continuing at regular intervals as needed, the Corpus Christi MPO will identify intersections and hire consultants to obtain peak hour and off-peak turning movement counts. These

counts, and counts from other agencies, will be coded into traffic models to aid analyses of conditions, needs and solutions.

- The Corpus Christi MPO staff will collaborate with TxDOT and consulting staff to update the Travel Demand Model with enhancements including dynamic traffic assignment, more times-of-day, intersection controls, tours in place of trips, and multiple socio-economic scenarios. Stakeholders from around the region will review and reconcile the updated model with other forecasting efforts. All assumptions, discussions, factors and results shall be documented in sufficient detail to enable an outside observer to validate the model development and usage. The model will consider emerging technologies and services such as electrification, automation, and sharing, and use these to represent traffic flow on the regionally classified network. The modes may include networks for standard vehicles, autonomous vehicles, freight, transit, on demand shuttle services, regional bicycle and pedestrian movements. If deemed necessary, large traffic analysis zones will be subdivided to “enrich” the number of zones and provide additional detail for land-use scenarios and travel movements. Identify and evaluate impedances, centroids, external points, screen lines and other factors that may require alternations from the regional model to develop the Updated Model. The value of time will be estimated, and calibration to both travel volumes and travel speeds will be investigated.
- Mesoscopic / Microscopic Simulation Models for each Corridor of Concern and Corridor of Note will be developed. Emphasis is on showing problematic traffic flows including consideration of differing vehicle types, driver behavior, and relationships with roadway characteristics.
- As part of the Regional ITS system, tools designed to develop optimal signal phasing and timing plans for isolated signal intersections, arterial streets, or signal networks will be reviewed and acquisition explored.

Social-economic Allocation Model:

- Develop a land use model that helps predict the pattern of growth and development by simulating the dynamic interaction of households, jobs, real estate markets and the regional transportation system within the constraints of local growth policies. This tool will inform policy makers' decisions with relation to long-run patterns of growth and development, as well as infrastructure investments.

Crash Analysis Model:

- Identify a tool and implement a Highway Safety Manual Compliant suite of crash predictive, diagnostic and economic evaluation tools.
- Utilize the diagnostic capabilities of the crash analysis tools, a library of crash modification factors and economic evaluation capabilities to provide effective and defensible risk management platform for safety decisions.
- Conduct observational Before-After Studies to evaluate effectiveness of constructed improvements correcting for Regression to the Mean Bias using the Empirical Bayes method.

Bridge, Culvert, and Pavement Model:

- Acquire and harmonize pavement condition data from local and state agencies.
- Populate and calibrate a HERS-ST model for regional analysis.
- Work with TxDOT to acquire bridge condition data and an estimate of maintenance needs.
- Acquire culvert information and a method of estimating maintenance needs.

EXPECTED PRODUCTS

- TxDOT Data Collection - To conduct travel surveys and/or traffic saturation counts in the MPO region for use in the travel demand model and transportation analysis for pavement and geometric design. Work is being conducted by TXDOT and funding is being provided through the Texas State Planning and Research (SPR) Work Program Part I.
- Turning movement counts to assist with crash analysis and operational evaluation of non-freeway roads.
- Travel Speed data for the National Highway System.
- Refined Crash Data and detailed analysis. Consultants may aid this endeavor.

DRAFT FY 2021 – FY 2022 UNIFIED PLANNING WORK PROGRAM (UPWP)

- Refined HERS-ST Model. Consultants may aid this endeavor.
- Refined socio-economic allocation model. Consultants may aid this endeavor.

PREVIOUS WORK – The MPO developed a GIS database that reflects Census 2010 population, household, income, and employment data. The MPO made these data accessible through the MPO website and by direct distribution, as appropriate, upon request. The Corpus Christi MPO has maintained an up-to-date GIS database to inform internal and external planning processes. As part of this work, the Corpus Christi MPO has reviewed and converted CTPP 2010 data into the standard ESRI format and has converted TIP data transfer into the GIS format.

Corpus Christi MPO staff refined TDM TAZ boundaries various scenarios and ran traffic assignments and travel forecasts for specific corridor scenarios. Staff refined TDM roadway networks and ran traffic assignments and travel forecasts for specific corridor alternatives in support of the MTP. Corpus Christi MPO staff prepared the input for the emission model and provided technical support for the initiation of the City of Corpus Christi’s TDM Study. The Corpus Christi MPO supported the initiation of the City of Corpus Christi’s Strategic Integration (Travel Demand Model) Feasibility Study in FY 2017 to implement Travel Demand Model enhancements to include factors such as dynamic traffic assignment, time-of-day, intersection control, land use, and transit information.

MPO staff completed production of demographic data sets, utilizing Census 2010 data, including population, income, household, and employment data in five year increments; data sets were delivered to TxDOT for use in updating the MPO’s Travel Demand Model to a 2045 forecast year. The completion of demographic data acquisition built upon other tasks that were undertaken to prepare for the model update, including: calibration of the 2040 TDM to prepare transportation forecasts for specific corridor alternatives.

SUBTASK – The subtasks and their objectives are listed in detail on the following pages.

- Subtask 2.1 MPO Geographic Information System (GIS) Database Management
- Subtask 2.2 Travel Demand and Corridor Model Development and Update
- Subtask 2.3 Socio-Economic Allocation / Land-Use Model Acquisition and Calibration
- Subtask 2.4 Crash Data Acquisition and Crash Model Calibration
- Subtask 2.5 Infrastructure Condition Data Aggregation and Analysis Models

FUNDING SUMMARY

EXHIBIT 5. TASK 2.0 – DATA DEVELOPMENT AND MAINTENANCE BUDGET SUMMARY

Subtask	Responsible Agency	1. Transportation Planning Funds (TPF) ¹		FTA Sect. 5307	Local	Total		
		2. FY 2021	3. FY 2022			FY 2021	FY 2022	2-Year
2.1	MPO	\$52,000	\$33,000	\$0	\$0	\$52,000	\$33,000	\$85,000
2.2	MPO	\$50,000	\$35,000	\$0	\$0	\$50,000	\$35,000	\$85,000
2.3	MPO	\$10,000	\$30,000	\$0	\$0	\$10,000	\$30,000	\$40,000
2.4	MPO	\$45,000	\$15,000	\$0	\$0	\$45,000	\$15,000	\$60,000
2.5	MPO	\$15,000	\$30,000	\$0	\$0	\$15,000	\$30,000	\$45,000
TOTAL		\$172,000	\$143,000	\$0	\$0	\$172,000	\$143,000	\$315,000

¹TPF – This includes both FHWA PL-112 and FTA Section 5303 Funds. TxDOT will apply transportation development credits sufficient to provide the match for TPF. As the credits reflect neither cash nor man-hours, they are not reflected in the funding tables.

SUBTASK 2.1 – MPO GEOGRAPHIC INFORMATION SYSTEM (GIS) DATABASE MANAGEMENT

This subtask allows staff to manage and update the GIS database as part of the MPO’s continuous planning process. Data for state and national performance measures are collected and updated annually. Data for regional performance measures (i.e. measures used to evaluate the performance of the metropolitan transportation system overall) will also be collected and updated annually. Project scale performance measures (i.e. those used to prioritize capital investments on individual corridor segments) are updated at a minimum of every two years to inform project selection in conjunction with updates to the TIP, or as needed to guide regional decision-making. There are efficiencies that will be gained by coordinating this data collection. The Corpus Christi MPO may need to use financial resources to acquire data directly. Examples could include the hiring of firms to collect data and conduct surveys as occurred in 2009 and 2010. This may be especially effective if done in conjunction with the 2020 US Census. It could also take the form of purchasing regionally specific data from one or more of the “Big Data” compiler agencies.

A brief, not wholly inclusive, list of these potential sources* includes:

- <https://tti.tamu.edu/>
- <https://www.cattlab.umd.edu/>
- <https://www.streetlightdata.com/>
- <https://www.airsage.com/>
- <http://inrix.com/>
- <https://www.waze.com/>
- https://www.tomtom.com/en_gb/traffic-index/
- <http://www.ihsglobalinsight.com/ProductsServices/ProductDetail838.htm>
- <https://www.innovarytech.com/turning-movement-counts/>
- <https://www.here.com/products>
- <https://mysidewalk.com/>
- <https://www.strava.com/>

**Listing these companies in no way, shape, or form, suggests that the Corpus Christi MPO advocates or endorses their work. This is for information purposes only.*

The Corpus Christi MPO acquires, aggregates, reviews, and formats data in a geospatial format to inform internal planning processes and the activities of the broader planning community. Analysis of the 2020 census demographic and land use data will be performed for the geographic distribution and aggregation. The Corpus Christi MPO coordinates with local and state agencies to develop trend data on changes in land use through the analysis and review of existing demographic data.

SUBTASK 2.2 – TRAVEL DEMAND AND CORRIDOR MODEL DEVELOPMENT AND UPDATE

Corpus Christi MPO staff will coordinate with TxDOT to update the regional Travel Demand Model and develop meso- and micro-scale corridor models as appropriate to assist with Congestion Management Process enhancements and Transportation System Management Operations that improve efficient traffic flows. A consulting firm may be hired to acquire travel volumes, travel speeds, origin and destination information, anonymized routing information, and turning movement counts to aid planning and forecasting processes. These counts, and counts from other agencies, will be coded into various models to aid analyses of conditions, needs and solutions. Implementation of the Travel Demand Model enhancements including dynamic traffic assignment, time-of-day, intersection control, tours, land use, and transit information.

The 2019 CMP identified turning movement counts as a priority effort. In the past, Corpus Christi MPO hired consultants to acquire turning movements at key intersections throughout the region as part of the Regional Traffic Signal Coordination Plan. Beginning in either FY 2021 or FY 2022, and continuing at regular intervals as needed, the Corpus Christi MPO will identify intersections to acquire peak hour and off-peak turning movement counts. The analyzed results will be released bi-annually.

SUBTASK 2.3 – SOCIO-ECONOMIC ALLOCATION MODEL DATA ACQUISITION AND CALIBRATION

Review local land use files, property information, employment information and U.S. Census databases and update databases as needed. Develop population, income, household, and employment data that are used in the Corpus

Christi MPO's planning and forecasting processes. Explore, and implement with consultant help, an advanced allocation model such as Urbanism.

The socioeconomic database is compiled and maintained using local land use files, property information, employment information and U.S. Census materials such as American Community Survey (ACS), Woods and Poole forecasts, and other information as required.

SUBTASK 2.4 – CRASH DATA ACQUISITION AND CRASH MODEL CALIBRATION

Unlike other performance measures applicable only to the National Highway System (NHS), the safety performance measures apply to all public roads. The Traffic Engineering Accident Analysis System (TEAAS) is a tool to analyze accidents that occur on roads throughout the state. This database is maintained by the Traffic Engineering and Safety Systems Branch of TxDOT. The Corpus Christi MPO staff will acquire and refine crash data and supporting information such as traffic volumes and turning movement counts. These data will be input into appropriate models, possibly with consultant help, to create a locally calibrated crash analysis model that highlights unusual locations. Activities will also include participation in multi-disciplinary safety initiatives at the local, regional, or state level.

SUBTASK 2.5 – INFRASTRUCTURE CONDITION DATA AGGREGATION AND ANALYSES MODELS

The public clearly wants good roads, but lacking a rigorous forecast of pavement conditions, while there is a forecast of congestion conditions, creates an unbalanced system and impacts public and elected official opinions. The Corpus Christi MPO staff will acquire infrastructure condition data from local and state sources, and possibly with consulting help, will refine the data into a calibrated regional HERS-ST model that uses engineering concepts to identify deficiencies and apply economic principles to determine the outcome of different investment strategies.

HERS–ST can estimate future pavement conditions for specific investment levels, it can also evaluate the impacts of alternative types of investment strategies, develop scenarios for the best use of a limited amount of funds, and determine what the total cost is to completely repair and maintain all roads in the region in 5, 10, and 25 year increments.

SECTION IV. TASK 3.0 – SHORT RANGE PLANNING

The process of building, operating, maintaining, and reconstructing the region's surface transportation system is complex and demands ongoing metropolitan planning efforts. The activities described in this task depend upon collaborative and coordinated information and decision-making processes among state and local government agencies, transportation providers, and the users of the regional system. The cooperation among all these stakeholders will simplify and harmonize metropolitan transportation planning efforts and lead to greater mobility and accessibility benefits.

OBJECTIVE – In addition to maintaining a TIP that outlines a four-year schedule of transportation improvements for the study area and reflects the planning priorities of federal legislation, the MPO carries out various planning studies to assess the need for other projects that have not yet been identified in the MTP or TIP. Such studies may function to guide capital investments and project prioritization by municipalities and other entities in the MPO area.

METHODOLOGY

- Maintenance of an up-to-date FY 2021-2024 TIP
- Creation of the FY 2023-2026 TIP
- Identify EJ/Title VI funding and project list in the TIP and MTP
- Acquisition and compilation (annually) of myriad Performance Metric data—including seven congestion-specific metrics—relating to eight Performance Measurement topics and four regional Goal Areas, per the MPO’s performance-based planning framework, as defined in the CMP. These data, which are acquired from multiple sources, are used to prioritize capital projects and assess the functionality of the regional transportation network, including evaluating the severity of congestion
- Collaboration with local partners to collect freight origin/destination data to augment the existing hazardous materials commodity flows dataset
- An updated Regional Public Transportation Coordination Plan from the 2017-2021 version
- Compilation of traffic count data from various multiple sources to inform the evaluation of the degree of congestion on various segments
- An updated Coordinated Human Services Transportation Plan.
- CMP / TSMO / ITS Architecture Plan
- Active and Micro-mobility Transportation Planning
- Regional Freight Planning
- Transit Coordination
- Regional and Project Economic Analyses Whitepaper
- Infrastructure Lifecycle Analysis Report
- Crash Analysis and Incident Management Planning

EXPECTED PRODUCTS

- Amendments to adopted FY 2021-2024 TIP
- A new FY 2023-2026 TIP
- An active and Micro-mobility Transportation Planning Issues Report
- Updated Congestion Management Program corridor information
- Updated Regional ITS Architecture Plan
- Updated Regional ITS Strategic Implementation Plan
- Updated designated National Freight Network routes in the Corpus Christi MPO area
- Updated Functional Classification Map
- Updated Transit Route and Transit Service Coverage Maps
- Regional and Project Economic Analyses Whitepaper
- Calibrated Economic Analysis Model

DRAFT FY 2021 – FY 2022 UNIFIED PLANNING WORK PROGRAM (UPWP)

- Infrastructure Lifecycle Analysis Report
- Calibrated Crash Model
- Top 20 Intersection Crash Locations
- An updated Coordinated Human Services Transportation Plan

PREVIOUS WORK

- Maintenance of an up-to-date FY 2019-2022 TIP.
- Implementation of various bicycle and pedestrian mobility planning products as subsequent phases of the Strategic Plan for Active Mobility.
- Evaluation of strategies for enhancing freight efficiency and minimizing risk on the Harbor Bridge Replacement Project.
- Collaboration with local partners to collect freight origin/destination data to augment the existing hazardous materials commodity flows dataset.
- Technical assistance to regional partners in the interest of sustaining initiatives outlined in the Regional Public Transportation Coordination Plan 2017-2021.
- Technical assistance in support of the CCRTA's Comprehensive Operational Analysis to evaluate operational efficiency in all aspects of CCRTA operations.
- Compilation of traffic count data from various multiple sources to inform the evaluation of the degree of congestion on various segments.
- Identification of possible access management improvement opportunities to address congestion.
- Identification of transportation and traffic improvements that are effective and efficient while enhancing safety and minimizing social and environmental impacts.
- Progress toward creation of a bicycle friendly business accreditation in collaboration with Corpus Christi United Chamber of Commerce.
- Creation of various bicycle and pedestrian mobility planning products as part of the Strategic Plan for Active Mobility.
- Quarterly updates to online Implementation Status Map depicting build out of the Bicycle Mobility Network.
- Initiate Category (CAT) 9 Transportation Alternative Set-aside projects for FY 2019 and 2020.
- Reassign CAT 9 FY 2018 Region-wide Bike Blvd Wayfinding Initiative to FY 2019 (per City request) for project completion*.
- Strategic Plan for Active Mobility follow-up survey regarding priorities for community cycling programs and supporting infrastructure
- Evaluation of strategies for enhancing freight efficiency and minimizing risk on the Harbor Bridge Replacement Project.
- Hosting FHWA and Center for Transportation Excellence (CTE) teleconference workshops and webinars related to freight issues, transportation technology, and safety for member agencies and interested public.
- Continued collaboration with regional partners to collect freight origin/destination data to augment the existing Hazardous Material Commodity Flow data set in order to inform whether to voluntarily undertake a routing process for non-radioactive hazardous materials (NRHM).
- Continued collaboration with Port Corpus Christi to promote the PCC's truck queuing project on the Joe Fulton International Trade Corridor as a regional case study within the Texas Innovation Alliance.
- Technical assistance in support of the CCRTA's Comprehensive Operational Analysis to implement innovative Flex Route services, streamline route alignments, improve travel time, and evaluate operational efficiencies in all aspects of CCRTA operations to increase ridership levels.
- Continued collaboration with CCRTA and Texas A&M University - Corpus Christi to promote a collaborative autonomous campus shuttle pilot project as a regional case study within the Texas Innovation Alliance.

DRAFT FY 2021 – FY 2022 UNIFIED PLANNING WORK PROGRAM (UPWP)

- An updated Travel Demand Model (to be delivered by TxDOT) per demographic data collected by the MPO in FY 2018.
- Update of the FY 2019-2028 Ten-Year Plan.
- On-going coordination with regional air quality partners to inform reporting about efforts to curb emissions through transportation planning.
- Completion of the Strategic Integration (Travel Demand Model) Feasibility Study by a consultant (\$460K).
- Various interim data products in support of the planned update of the TDM using the 2012 base year for the forecast year 2045.
- Technical support to partners to facilitate effective use of the data generated by the updated model.
- Develop a fiscally constrained 2020-2045 MTP.
- Identification of segments that may merit intervention to address congestion.
- Assessment of feasibility of integrating ITS resources into the incident management strategies.
- Identification of opportunities to partner or leverage public resources into operations and maintenance projects.
- Identification of locally relevant performance measures amidst state and federal performance measures, when published, that will be integrated into the project selection process.
- Maintain an up-to-date 10-Year Plan for period FY 2019-2028.
- Identify opportunities to partner and leverage public resources for projects Participation in City of Corpus Christi Air Quality Committee and Technical Working Group on Mobile Sources.
- Coordination with the Pollution Prevention Partnership on federal reporting and regional outreach.
- Narrative and data contributions to annual Ozone Advance and other regional reporting documents.

SUBTASKS - The subtasks are listed in detail on the following pages.

- Subtask 3.1 Transportation Improvement Program (TIP) Update
- Subtask 3.2 CMP/TSMO/ITS Architecture Plan
- Subtask 3.3 Active and Micro-mobility Transportation Planning
- Subtask 3.4 Regional Freight Planning
- Subtask 3.5 Transit Coordination
- Subtask 3.6 Economic Analyses of Projects and Portfolios
- Subtask 3.7 Infrastructure Lifecycle Analysis and Reporting
- Subtask 3.8 Crash Analyses and Traffic Incident Management Planning
- Subtask 3.9 Coordinated Public Transit – Human Services Transportation Plan Update

FUNDING SUMMARY

EXHIBIT 6. TASK 3.0 – SHORT RANGE PLANNING BUDGET SUMMARY

Subtask	Responsible Agency	Transportation Planning Funds (TPF) ¹		FTA Sect. 5307	Local	Total		
		FY 2021	FY 2022			FY 2021	FY 2022	2-Year
3.1	MPO	\$15,000	\$25,000	\$0	\$0	\$15,000	\$25,000	\$40,000
3.2	MPO	\$25,000	\$25,000	\$0	\$0	\$25,000	\$25,000	\$50,000
3.3	MPO	\$35,000	\$35,000	\$0	\$0	\$35,000	\$35,000	\$70,000
3.4	MPO	\$15,000	\$15,000	\$0	\$0	\$15,000	\$15,000	\$30,000
3.5	MPO	\$15,000	\$15,000	\$0	\$0	\$15,000	\$15,000	\$30,000

DRAFT FY 2021 – FY 2022 UNIFIED PLANNING WORK PROGRAM (UPWP)

3.6	MPO	\$16,000	\$20,000	\$0	\$0	\$16,000	\$20,000	\$36,000
3.7	MPO	\$20,000	\$20,000	\$0	\$0	\$20,000	\$20,000	\$40,000
3.8	MPO	\$35,000	\$21,000	\$0	\$0	\$35,000	\$21,000	\$56,000
3.9	MPO	\$5,000	\$5,000	\$0	\$0	\$5,000	\$5,000	\$10,000
TOTAL		\$181,000	\$181,000	\$0	\$0	\$181,000	\$181,000	\$362,000

¹ TPF – This includes both FHWA PL-112 and FTA Section 5303 Funds. TxDOT will apply transportation development credits sufficient to provide the match for TPF. As the credits reflect neither cash nor man-hours, they are not reflected in the funding tables.

SUBTASK 3.1 – TRANSPORTATION IMPROVEMENT PROGRAM (TIP) UPDATE

One of the primary responsibilities of the MPO is the development of a Transportation Improvement Program (TIP). The TIP includes all transportation projects within the Corpus Christi Metropolitan Planning Area for which federal and/or state funds will be used, as well as all projects that have regional significance and are funded using local or private funds. The Corpus Christi MPO staff will maintain and amend the FY 2021-2024 TIP as needed to reflect changes in area priorities, scope, accessibility, and funding for roadways and transit projects. A cooperative interagency input process is part of the public involvement component of this task.

Future project applications will provide, in an easily understood manner and with sufficient detail, the design concept and scope descriptions of all existing and proposed transportation facilities to permit develop cost estimates for major transportation investments for which analyses are not complete. The application shall identify study corridors and subareas and may stipulate either a set of assumptions (assumed alternatives) concerning the proposed improvements or a no-build condition pending the completion of a corridor or subarea level analysis under Sec. 450.318 Sufficient descriptive material (i.e., type of work, termini, length, etc.) to identify the project or phase;

An important and challenging effort is refining the decision support system to reflect adopted regional priorities and aid allocating funds to those projects and programs. The Corpus Christi MPO will also monitor the delivery of capital projects to support on-time and on-budget construction. Another focus is on developing priority projects to the level that allows the Corpus Christi Metropolitan area to compete nationally for discretionary funds.

This task will also produce the required system performance report and subsequent updates evaluating the condition and performance of the transportation system with respect to the adopted performance targets including progress achieved by the metropolitan planning organization in meeting the performance targets in comparison with system performance recorded in previous reports; and an analysis of how the preferred investment scenario has improved the conditions and performance of the transportation system and how changes in local policies and investments have impacted the costs necessary to achieve the identified performance targets.

SUBTASK 3.2 –CMP/TSMO/ITS ARCHITECTURE PLAN

The Corpus Christi MPO will convene a CMP Committee and update the previous regional documents: ITS Architecture Plan and ITS Strategic Implementation Plan, to include current technologies, along with connected and autonomous vehicle systems. After completion of the updated travel models, each Corridor of Concern from the adopted CMP shall be evaluated for short, medium and long-range planning horizons based on capacity and operations as compared to expected demand. Corridors of Note will be evaluated as appropriate.

Performance shall be measured using adopted goals and performance metrics. The process will result in a list of roadway segments that have deficiencies when evaluated using adopted metrics for both existing conditions and forecast future conditions, using updated models and information. The relatedness of individual facilities to a corridor should be tested by changing network features and reviewing impacts to other facilities. The effort will include evaluating recurring and non-recurring congestion as part of the overall evaluation of the regional

transportation network. The Corpus Christi MPO staff will work with cognizant agencies to identify cost effective interventions, based on the adopted Congestion Management Program, to address these “identified deficiencies”.

The CMP established a systematic process that provides information on transportation system performance and alternative strategies to alleviate congestion and enhance the safety and mobility of people and goods in the Corpus Christi Metropolitan Area. Modern roadway operations are driven primarily through advancements in technology, though proper planning and physical projects may play a role as well.

The Intelligent Transportation System (ITS) architecture plan will identify technologies to improve mobility, increase safety, and reduce delays. ITS improves the existing roadway system’s operations in a cost-effective manner.

SUBTASK 3.3 – ACTIVE AND MICRO-MOBILITY TRANSPORTATION PLANNING

The Corpus Christi MPO strives to reflect non-vehicular and micro-mobility modes of transportation in its transportation planning. This subtask will continue to build on the work previously conducted and will ensure that the MTP and TIP for the Corpus Christi MPO shall provide for “...the development and integrated management and operation of transportation systems and facilities (including accessible pedestrian walkways and bicycle transportation facilities) that will function as an intermodal transportation system in the metropolitan planning area and as an integral part of an intermodal transportation system for the State and the United States.” USC 49 Section 5303 c (2).

SUBTASK 3.4 – REGIONAL FREIGHT PLANNING

Safe and efficient multi-modal freight mobility is a cornerstone of the regional economy. Expanding rail capacity, enhancing trucking safety, and bolstering the nexus between modes are Corpus Christi MPO priorities. The Corpus Christi MPO staff will work with TxDOT, the Port of Corpus Christi and other significant freight stakeholders to update the designation of national freight network routes in the region. The Corpus Christi MPO will also continue to collaborate with regional emergency management partners to explore strategies for mitigating risk associated with freight operations in the face of industrial growth.

SUBTASK 3.5 – TRANSIT COORDINATION

The Corpus Christi MPO strives to support transit services that enhance regional economic growth and universal access to goods and services. The MPO will continue to participate and provide technical support to Corpus Christi Regional Transportation Authority (CCRTA) in an attempt to ensure that plan recommendations are consistent with current needs and resources of public providers, private providers, and the health and human services community. This is an ongoing task with Corpus Christi MPO staff serving as an engaged stakeholder in the process.

The Corpus Christi MPO maintains active engagement with CCRTA Operations and Planning departments. The MPO remains committed to supporting the Regional Public Transportation Coordination Plan, from the Transportation Coordination Network of the Coastal Bend (TCN).

SUBTASK 3.6 – ECONOMIC ANALYSES OF PROJECTS AND PORTFOLIOS

The Corpus Christi MPO staff will work with consultants to develop appropriate econometric model(s) to complete analyses of potential economic impacts/benefits of both individual projects and portfolios of projects in the region. Planning and promoting economic development is important in developing and sustaining a strong and vibrant community. It is important for the Corpus Christi MPO to collaborate with agencies throughout the region to encourage economic growth, be responsive to the needs of the business community, and work to strengthen the region’s position in attracting and retaining businesses. However, those efforts must be undertaken within the context of sustaining what the region already enjoys – a tight-knit community with a rich history and vibrant culture.

Investment decisions are typically based on analyses of benefit-cost analysis (BCA), and/or cost-effectiveness analysis (CEA), to appraise economic viability. Increasingly BCA or CEA are complemented by multicriteria analysis

(MCA) to capture the multiple dimensions that affect decision-making – social, economic, environmental, and financial. For projects evaluated and financed by federal agencies, TxDOT, or the Corpus Christi MPO, guidelines are available for economic analysis of investment projects.

SUBTASK 3.7 – INFRASTRUCTURE LIFECYCLE ANALYSIS AND REPORTING

The need to maximize the benefits of limited funding and stabilize budgets is particularly acute for the preservation of infrastructure. TxDOT and local agencies are grappling with the fact that many critical bridges, roadways, and drainage networks need substantial repair or replacement. Maintenance, upgrades, and replacements are a growing need, and with limited resources it is even more important that decisionmakers prudently plan and spend current and future budgets. When the cost of a project is estimated only for design and construction, the long-term costs associated with maintenance, operation, and the reconstruction of a project are often overlooked. Similarly, comparing project design alternatives by their initial costs can lead to shortsighted decisions. Without careful examination of the full life cycle costs, investment decisions today could cost an agency even more in years ahead. Something as simple as a bridge replacement provides the opportunity to construct an asset, sometimes with higher upfront costs, in a way that reduces the needs for future revenues dedicated to that asset, often referred to as “sustaining capital.” A poor choice today can be amplified in future decades as the inflexible and long-life nature of infrastructure can create unaffordable requirements in the future.

This subtask utilizes the HERS-ST model developed in Task 2.5 and other studies to begin approximating the lifecycle burden of the transportation infrastructure in the region, with a focus on the NHS. This will produce a description of the condition of the assets and the costs of operations and maintenance activities. Performance deficiencies will be identified, and lifecycle cost analysis can suggest potential investment strategies for local entities to undertake. In combination with the financial planning, this can encourage conversations about long-term goals, issues, opportunities, and revenue needs. Examples of questions that HERS-ST will answer are:

- How will a reduction (or increase) of x percent in maintenance investment levels affect the condition of the roadway system over the next 5, 10, or 25 years?
- What level of future investment is required in a roadway system to ensure that average pavement condition is maintained?
- What level of investment is required to make all economically beneficial improvements on the system (e.g., those projects where benefits exceed costs)?
- What are reasonable performance targets given forecast funding, policy, and customer satisfaction objectives?

SUBTASK 3.8 – CRASH ANALYSES AND TRAFFIC INCIDENT MANAGEMENT PLANNING

This subtask comprises the rigorous analysis of crashes on all public roads in the region. The activities will include participation in multi-disciplinary safety initiatives at the local, state or national levels to address traffic safety in a holistic manner; research and analysis of crash data from TxDOT’s Crash Record Information System (CRIS) and coordination of trainings and workshops on safety related issues for agencies and regional implementers, if available or needed.

A complete regional study of fatal and serious injury crashes will be undertaken, documenting regional trends and influencing factors. Emphasis will begin with implementing systemic operations and engineering improvements but may include assisting enforcement activities. It will identify different categories of factors from the regional TDM: accident exposure factors, socio-economic factors and network factors.

The Corpus Christi MPO will explore using a regional safety committee to explore strategies to address identified issues. This committee will help inform local planning and programming efforts to improve transportation safety and achieve/exceed the region’s roadway safety targets.

A site-specific phase will explore various strategies to address locations with unusual characteristics. This effort will help inform local planning and programming efforts to improve transportation safety and achieve/exceed the region’s roadway safety targets.

FHWA encourages the MPOs to consider Traffic Incident Management (TIM) activities as part of their UPWPs. TIM directly supports multiple planning factors related to safety, mobility freight movement, air quality and transportation system reliability. TIM addresses the non-recurring congestion which causes delay that impacts all travelers, including just in time freight haulers. TIM also improves safety by reducing the likelihood of a secondary crash and responders being struck. Furthermore, TIM impacts the economy by reducing delay that impacts consumers, and results in wasted fuel. The Corpus Christi MPO may:

- Propose TIM to elected officials
- Facilitate TIM Responder Training
- Facilitate working groups and activities
- Foster relationships with private haulers and Law Enforcement Agencies
- Facilitate After Action Reviews
- Fund ITS Projects
- Compile data for Performance Measures

SUBTASK 3.9 – COORDINATED PUBLIC TRANSIT - HUMAN SERVICES TRANSPORTATION PLAN UPDATE

Multiple local, state, and federal programs from the United States Departments of: Agriculture, Education, Health and Human Services, Veterans Affairs fund or support transportation services for their clients. Many of these “human service transportation” funding programs are independent from the transportation funding and services provided by the U.S. Department of Transportation - Federal Transit Administration (FTA). Because of the variety of different missions, agency rules, federal regulations, and bureaucratic processes, human service and public transportation programs are not always mutually supportive or coordinated. The lack of coordination results in duplication of some systems and programs and overly complex, expensive, and difficult to understand rules for use. The goal of coordination planning is untangling the separate systems and encouraging agencies and programs to complement each other and work towards an accessible, easy to use system.

As a practice, mobility management emphasizes the coordination of transportation services to enhance the mobility and special needs of seniors and individuals with disabilities, older adults, and others with barriers to transportation. As stipulated in Federal Transit Administration (FTA) Circular 9070.1G the current Coordinated Public Transit - Human Services Transportation Plan (CPTHSTP) must identify the transportation needs of individuals with disabilities, seniors and people with low incomes; provide strategies for meeting those local needs; and prioritize transportation services and projects for funding and implementation. This plan serves two primary purposes: guide the programming process for FTA Section 5310 funding, and provide guidance to enhanced mobility providers on how to best advance the mobility independence of older adults, individuals with disabilities, low-income populations and veterans in the Corpus Christi Urbanized Area. This effort will emphasize coordination among all the key players including public transit providers, private operators, and volunteer driver programs. It will also include the customers, staff, and stakeholders from human services and health care agencies.

The Corpus Christi region is working to more fully incorporate mobility management into planning processes to help ensure that decisions on funding transportation projects can result in more equitable distribution of services, facilities and resources. The Corpus Christi MPO staff will fulfill requirements related to the 5310 Program: Enhanced Mobility of Seniors and Individuals with Disabilities, including participating in a regional rating and ranking committee for the program. The performance measures included in the updated Coordinated Public Transit - Human Services Transportation Plan shall require the collection of quantitative and qualitative information, as available, concerning modifications to the geographic coverage of transportation service, the quality of transportation service, or service times that increase the availability of transportation services for seniors and individuals with disabilities; ridership; and accessibility improvements.

SECTION V. TASK 4.0 – METROPOLITAN TRANSPORTATION PLAN (MTP) UPDATE

Task 4.0 reflects efforts in support of developing and maintaining the 25-year Metropolitan Transportation Plan (MTP). Key activities for FY 2021 and FY 2022 are processing any necessary plan amendments; evaluating the process used in plan development and proposing improved methodologies; and anticipating potential impacts from new federal legislation. Initial activities for the 2050 MTP will begin during this UPWP time-period.

Development of the 2050 MTP has several subcomponents inherent in an update, including but not limited to:

- Demographic Forecasts/Small Area Forecast
- Congestion Management Process
- Regional ITS Plan
- Regional Freight Plan
- Transit Plan (in coordination with CCRTA)
- Specialized Transit Plan (in coordination with Coastal Bend COG and CCRTA)
- Regional Nonmotorized Plan
- Regionally Significant Corridor Studies
- Transportation System Reporting and Needs Identification Studies

OBJECTIVE – The Corpus Christi MPO will perform preparatory and early long-range and regional transportation planning activities to support developing, maintaining and implementing the metropolitan transportation plan; and participate in local and statewide transportation planning and coordination efforts

METHODOLOGY – Corpus Christi MPO staff will support implementation of the preferred strategies within the developing 2050 MTP. These activities will include:

- Non-motorized (bicycle and pedestrian) planning;
- Participation on transportation Subtask forces;
- Technical support and coordinating transportation plan development with ongoing local transportation planning activities;
- Pursuing innovative funding strategies to accelerate needed improvements;
- Participation in statewide and Front Range long-range transportation planning activities;
- Providing transit planning assistance to member entities;
- Continued coordination for implementation of the recommendations from the Specialized Transportation and Transit Plans;
- Continuing coordination with TSMO / ITS Subtasks;
- Preparing and processing amendments to the 2045 RTP, if necessary; and
- Preparing Metropolitan Systems Performance Report update.

EXPECTED PRODUCTS – A discussion of types of potential environmental mitigation activities and potential areas to carry out these activities, including activities that may have the greatest potential to restore and maintain environmental functions in habitats throughout the region.

- Refined Vision and Goals
- Refined Performance Measures and Evaluation Criteria
- Updated Needs and Deficiencies
- Begin updating the Financial Plan
- Develop, Analyze, and Refine Scenarios for Analysis and Investment
- Update Document Plan and Processes
- Begin Collaboration for Mitigation
- Process Evaluation and Debrief Reports

SCHEDULE – CPG contract and financial reports prepared monthly; mid-year UPWP review each April; UPWP annual reports scheduled for completion each December; UPWP amendments as needed; adoption of FY 2023 & FY 2024 UPWP is scheduled for June 2021.

PREVIOUS ACCOMPLISHMENTS:

- Maintain an up-to-date fiscally reasonable 10-Year Unified Transportation Plan for period FY 2019-2028.
- Identify opportunities to partner and leverage public resources for projects.
- Participation in City of Corpus Christi Air Quality Committee and Technical Working Group on Mobile Sources.
- Coordination with the Pollution Prevention Partnership on federal reporting and regional outreach.
- Narrative and data contributions to annual Ozone Advance and other regional reporting Documents.
- Develop a fiscally constrained 2020-2045 MTP.
- Identification of segments that may merit intervention to address congestion.
- Assessment of feasibility of integrating ITS resources into the incident management strategies.
- Identification of opportunities to partner or leverage public resources into operations and maintenance projects.
- Identification of locally relevant performance measures amidst state and federal performance measures, when published, that will be integrated into the project selection process.
- Various interim data products in support of the planned update of the TDM using the 2012 base year for the forecast year 2045.
- Technical support to partners to facilitate effective use of the data generated by the updated model.
- The Corpus Christi MPO maintained a compliant 2015-2040 MTP through extensive collaboration with member agencies and other stakeholders in the community. Widespread public outreach was implemented to assure that the 2020-2045 MTP reflected regional needs and is in compliance with regulatory requirements.
- The Corpus Christi MPO maintained a compliant 2020-2045 MTP through extensive collaboration with member agencies and other stakeholders in the community. Widespread public outreach was implemented to assure that the 2020-2045 MTP reflected regional needs and complied with regulatory requirements.
- The Corpus Christi MPO approved a compliant 2020-2045 MTP Financial Plan using collaboration with member agencies and other stakeholders in the community. This is a routine work effort.
- Attended conferences and training sessions.

SUBTASKS – The subtasks and their objectives are listed in detail on the following pages.

Subtask 4.1 Refine Vision and Goals

Subtask 4.2 Refine Performance Measures and Evaluation Criteria

Subtask 4.3 Identify Needs and Deficiency Locations

Subtask 4.4 Develop a Financial Plan of Reasonable Available Funding

Subtask 4.5 Develop, Analyze, and Refine Scenarios for Analysis and Investment

Subtask 4.6 Document Plan and Processes

Subtask 4.7 Evaluate Impacts and Develop Mitigation

Subtask 4.8 Planning and Programming Process Evaluation and Debrief

Subtask 4.9 Process Documentation and Enhancement

The Corpus Christi MPO staff will, with the assistance of outside contractors as needed, perform the technical activities to accomplish the tasks listed in Exhibit 7.

FUNDING SUMMARY

EXHIBIT 7. TASK 4.0 – METROPOLITAN TRANSPORTATION PLAN (MTP) BUDGET SUMMARY

Subtask	Responsible Agency	Transportation Planning Funds (TPF) ¹		FTA Sect. 5307	Local	Total		
		FY 2021	FY 2022			FY 2021	FY 2022	2-Year
4.1	MPO	\$20,000	\$10,000	\$0	\$0	\$20,000	\$10,000	\$30,000
4.2	MPO	\$30,000	\$10,000	\$0	\$0	\$30,000	\$10,000	\$40,000
4.3	MPO	\$30,000	\$10,000	\$0	\$0	\$30,000	\$10,000	\$40,000
4.4	MPO	\$20,000	\$10,000	\$0	\$0	\$20,000	\$10,000	\$30,000
4.5	MPO	\$30,000	\$10,000	\$0	\$0	\$30,000	\$10,000	\$40,000
4.6	MPO	\$20,000	\$9,000	\$0	\$0	\$20,000	\$9,000	\$29,000
4.7	MPO	\$20,000	\$10,000	\$0	\$0	\$20,000	\$10,000	\$30,000
4.8	MPO	\$30,000	\$20,000	\$0	\$0	\$30,000	\$20,000	\$50,000
4.9	MPO	\$35,000	\$25,000	\$0	\$0	\$35,000	\$25,000	\$60,000
TOTAL		\$235,000	\$114,000	\$0	\$0	\$235,000	\$114,000	\$349,000

¹ TPF – This includes both FHWA PL-112 and FTA Section 5303 Funds. TxDOT will apply transportation development credits sufficient to provide the match for TPF. As the credits reflect neither cash nor man-hours, they are not reflected in the funding tables.

SUBTASK 4.1 – REFINE VISION AND GOALS

While most transportation plans involve the public and stakeholders in defining a vision, a performance-based plan requires clear agreed-upon goals and objectives, since the strategic direction of goals and objectives are used to define performance measures. Consequently, it is critical for public involvement and stakeholder engagement to have a forum for rationally discussing priorities and trade-offs. These discussions will lead to developing and selecting achievable targets and in defining desired outcomes. In a performance-based plan, the public and stakeholders are involved in not just providing general concepts, but clearly defining or prioritizing goals and specific objectives, which leads to performance measures and achievable targets that are used in assessing plan options and/or selecting investments.

The Corpus Christi MPO staff will bring together stakeholders with in-depth knowledge of transportation and community related goal areas to refine the goals and objectives in the MTP. The goals and objectives of other agency plans will inform the development of the goals and objectives of the transportation plan. The process of developing the transportation plan encourages decision-makers and the public to explore goals and objective from different plans, identify potential conflicts and commonalities, and create a prioritization system.

SUBTASK 4.2 – REFINE PERFORMANCE MEASURES AND EVALUATION CRITERIA

Selecting performance measures in a performance-based plan is often thought of as a “data-driven” process. Actually, the public and stakeholders play a critical role in defining performance measures. It is important to work with the public and stakeholders to clearly define what is important and meaningful to them. Engaging participants helps define what is meant by different objectives and what metric is most appropriate. Goals associated with mobility, accessibility, and quality of life manifest themselves in different ways, and stakeholders

have different views of what different terms mean. Working with stakeholders to define how to measure performance helps to clarify what is most critical to the public and guides the analysis of strategies in the plan. The materials produced will actively and continuously strive to use plain language and to ensure that measures used in the plan are understood by the stakeholder community.

The Corpus Christi MPO staff will report the specific criteria and analysis procedures that will compare portfolios and scenarios comprised of distinct projects and policies for progress toward achieving the regional, state, and national performance goals.

SUBTASK 4.3 – IDENTIFY NEEDS AND DEFICIENCY LOCATIONS

Use the performance goals and measured conditions to identify specific corridors, roads and areas which are deficient in one or more ways. This dataset is the basis for problems and opportunities that can be addressed by “projects or policies”. Using the adopted goals, metrics and baseline conditions; the Corpus Christi MPO TPC will establish list of needs for at least: pavement condition, bridge condition, crashes, and congestion.

Corpus Christi MPO staff will identify the location of transportation deficiencies where both the current and future system experience safety issues, unacceptable roadway condition, operational problems, lack of interconnectivity, congestion, or other issues.

SUBTASK 4.4 – DEVELOP A FINANCIAL PLAN OF REASONABLY AVAILABLE FUNDING

Transportation systems are challenged to accommodate many competing needs, and fiscal constraint is vital to prioritizing resources to address those needs. Fiscal constraint also helps clarify what is possible with existing funding sources and can inform debate about a need for new funding. Providing realistic funding and revenue forecasts from the outset supports decision-maker, stakeholder, and public trust by providing understanding of the limits of funding to support implementation of strategies.

The Corpus Christi MPO staff will, in cooperation with CCRTA, local municipalities and counties, and TxDOT, develop this financial plan. This effort will require forecasting reasonably foreseeable revenue resources using realistic and collaboratively developed assumptions about existing funding sources, potential funding sources, alternative financing strategies, and inflation rate. It will provide forecasts in both future year and current year dollar values.

The financial plan shall compare the estimated revenue from existing and proposed funding sources that can reasonably be expected to be available for transportation uses, and the estimated costs of constructing, maintaining and operating the total (existing plus planned) transportation system over the period of the plan. The estimated revenue by existing revenue source (local, State, and Federal and private) available for transportation projects shall be determined and any shortfalls identified. Proposed new revenues and/or revenue sources to cover shortfalls shall be identified, including strategies for ensuring their availability for proposed investments. Existing and proposed revenues shall cover all forecasted capital, operating, and maintenance costs. All cost and revenue projections shall be based on the data reflecting the existing situation and historical trends.

The effort will include a methodology for identifying costs of individual capital projects and on-going maintenance and operations programs, along with acknowledging restrictions and requirements associated with each funding source. Revenue forecasts, life-cycle costs, and inflationary assumptions for projects and programs will be developed for immediate (existing + committed), short-term (next 2023-2026 TIP) midterm (UTP years 2035) and long-term (2050) investments. Financial information and estimates of risk of shortfalls compared against the lifecycle expenses of the transportation will be available in one-year increments through year 2035 and five-year increments through year 2050.

Corpus Christi MPO staff will create an easily understood document that summarizes available revenues and likely costs of construction, operations, and maintenance of projects and programs, taking into account inflation and year of expenditure. This task establishes the revenue basis for fiscal constraint of both the MTP as well as the funding sources for the TIP. Using the same revenue projections for the long-range plan and the TIP ensures financial consistency between the plan and program.

SUBTASK 4.5 – DEVELOP, ANALYZE, AND REFINE SCENARIOS FOR ANALYSIS AND INVESTMENT

Scenario planning helps decision-makers prepare for an unknowable future by providing a framework for comparing and contrasting various forces. The FHWA Scenario Planning Guidebook provides assistance on using scenario planning. As part of scenario planning, stakeholders shape alternative descriptions or scenarios of what the future could look like. These alternative scenarios are then assessed using transportation models, sketch-planning tools, or other quantitative methods to estimate the differences between the alternative visions of the future on performance measures or indicators of desired outcomes. The Corpus Christi MPO staff will work with regional leaders and local economic groups to adopt unified data and methodologies for existing and future population for households and employment by type.

SUBTASK 4.6 – DOCUMENT PLAN AND PROCESSES

Transparency promotes accountability by providing the public with information about what the Corpus Christi MPO is doing. Corpus Christi MPO will inventory information currently available for download and foster the public's use of this information to increase public knowledge and promote public scrutiny of processes. The Corpus Christi MPO will increase agency accountability and responsiveness; improve public knowledge of the agency and its operations and respond to need and demand as identified through public consultation.

SUBTASK 4.7 – EVALUATE IMPACTS AND DEVELOP MITIGATION

Transportation planning requires examining the complex interactions among social, economic, environmental, and political factors and identifying tradeoffs, especially when different stakeholder groups have conflicting interests. The Corpus Christi MPO MTP is required to be consistent with local land-use development, historic preservation, and environmental protection plans in the region. The Corpus Christi MPO uses an 8-step collaborative mitigation planning. A consistent desire of the Corpus Christi MPO is to add value to other agencies' planning and mitigation efforts and reinforce their individual effectiveness. One crucial example is the Texas Parks and Wildlife Department's (TPWD) Texas Conservation Action Plan (TCAP) Gulf Coast Prairies and Marshes Ecoregion Handbook. This document includes a list of concerns and potential actions that could yield mutual benefit.

The Corpus Christi MPO staff will support of regional planning to address mitigation of environmental, historic preservation, stormwater and air quality impacts of transportation in alignment of environmentally related performance measures.

SUBTASK 4.8 – PLANNING AND PROGRAMMING PROCESS EVALUATION AND DEBRIEF

This effort will provide analysis for lessons learned, best practices and recommendations for future planning, training, and process development. As improvement actions are identified and addressed, it is important that any relevant plans, policies, and procedures are updated accordingly.

Corpus Christi MPO staff will develop an After-Action Report to identify strengths of planning and programming processes that should be maintained and built upon, as well as identifying potential areas of improvement. For each step in the MTP and TIP processes the following questions will be answered.

- What did we want to accomplish?
- How did this change as you progressed?
- What did we accomplish?
- Why was there a difference between what we wanted and what we did?
- What went well and why?
- What could have gone better?
- What advice would you give yourself if you were to go back to where you were at the start of the project?
- What should we have learned from this project a year from now?
- How do we adapt our processes for a better outcome OR how do we repeat our successes?

SUBTASK 4.9 – PROCESS DOCUMENTATION AND ENHANCEMENT

MPO staff will reflect efforts in support of regional transportation planning to address mitigation of storm water impacts and air quality impacts of transportation in alignment of environmentally related performance measures.

SECTION VI. TASK 5.0 – SPECIAL STUDIES

Task 5.0 encompasses the special projects to be undertaken by the Corpus Christi MPO.

FY-2019 and FY-2020 Major Accomplishments

- At the request of TTI, the MPO is participating in a TTI pilot where they are developing a web-based platform to extract travel speed data from the INRIX dataset. There are no consultant costs associated with this collaborative effort with TTI.
- Establish a network that will be used to monitor congestion

EXPECTED PRODUCTS

- Completion of FHWA Resiliency Pilot Project on Laguna Shores Road
- Projects To-Be-Determine by the TPC with input from the TAC and local governments

SCHEDULE – Complete in 1 year.

SUBTASK – The subtask and their objectives are listed in detail on the following pages.

- Subtask 5.1 Regional Safety Planning
- Subtask 5.2 Resilience and Durability to Extreme Weather Pilot Project
- Subtask 5.3 TBD

The Corpus Christi MPO staff will, with the assistance of outside contractors as needed, perform the technical activities to accomplish the tasks listed below.

FUNDING SUMMARY

EXHIBIT 8. TASK 5.0 – SPECIAL STUDIES AND PARTNER AGENCY COORDINATION BUDGET SUMMARY

Subtask	Responsible Agency	Transportation Planning Funds (TPF) ¹		FTA Sect. 5307	Local	Total		
		FY 2021	FY 2022			FY 2021	FY 2022	2-Year
5.1	MPO	\$25,000	\$40,000	\$0	\$0	\$25,000	\$40,000	\$65,000
5.2	MPO	\$15,000	\$0	\$0	\$0	\$15,000	\$0	\$15,000
5.3	MPO	\$0	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL		\$40,000	\$40,000	\$0	\$0	\$40,000	\$40,000	\$80,000

¹TPF – This includes both FHWA PL-112 and FTA Section 5303 Funds. TxDOT will apply transportation development credits sufficient to provide the match for TPF. As the credits reflect neither cash nor man-hours, they are not reflected in the funding tables.

SUBTASK 5.1 – REGIONAL SAFETY PLANNING

OBJECTIVE – A significant part of the Corpus Christi MPO responsibility is working with our State and local government partners to convert data into information that is useful for decision making. From these efforts the Corpus Christi MPO will identify opportunity areas as they relate to collaborating with our State and local government partners. This subtask will build upon and enhance current transportation planning efforts, especially safety planning efforts, related to data, analysis, and project selection, with a focus on:

- Data visualization: Make data analysis and insights accessible to policy-makers and project implementers through clear, compelling data visualizations.
- Data integration: Integrate existing databases and new data sources to answer safety questions.

- Predictive insights: Use advanced analytic techniques to identify risk patterns and develop insights that anticipate and mitigate safety risk to reduce injuries and fatalities.

EXPECTED PRODUCTS – This project is a collaborative effort, wherein MPO’s staff will utilize specialized software to conduct detailed analyses of intersections for unusual crash patterns. This effort will engage an interdisciplinary team of specialized experts from the academic, municipal, and private sectors to:

- Assess baseline crash conditions,
- Identify high crash locations,
- Examine crash occurrences in areas where normal maintenance activities are occurring,
- Identify interventions that will likely ameliorate the frequent crash types in the above locations.

SUBTASK 5.2 – RESILIENCE AND DURABILITY TO EXTREME WEATHER PILOT PROJECT

OBJECTIVE – FHWA grant funds continue to support design work by a consultant for a nature-based solution to enhance the resiliency to extreme weather of Laguna Shores Road along the western shore of the Laguna Madre.

EXPECTED PRODUCTS – The pilot project is a collaborative effort, wherein MPO’s staff will manage an interdisciplinary team of specialized experts from the academic, environmental, non-profit, municipal, and private sectors to:

- Monitor Implementation of Laguna Shores Road Resiliency Pilot Project
- Monitor project effectiveness in terms of habitat development and shoreline condition to evaluate the utility of the pilot technique(s) to enhance the durability of other segments of Laguna Shores Road and other, similarly vulnerable transportation infrastructure.

SECTION VII. BUDGET SUMMARY – REVENUE INFORMATION

This section describes revenue sources used by the Corpus Christi MPO. The revenue utilized for work activities identified in the UPWP originate from two basic sources: federal transportation planning funds and non-federal sources. Exhibit 10 provides estimates of FY 2021 and FY 2022 revenues and expenses. Actual revenue amounts are calculated following the beginning of the Federal fiscal year, October 1, when Congress appropriates the funds.

FEDERAL FUNDING SOURCES – The United States Department of Transportation (USDOT), FHWA and FTA grant planning funds are authorized through 23 USC 104(f) and 49 USC 5305(d). These funds are allocated to work activities in accordance with appropriate regulations and are used for program expenditures by the Corpus Christi MPO.

Metropolitan Planning Organizations (MPOs) in the state of Texas have received federal metropolitan transportation planning funds via a Consolidated Planning Grant (CPG) that lists all of the Transportation Planning Funds (TPF). The aspects of this process are currently as follows:

- The approved UPWP allocates federal transportation planning funds to individual work items in the Work Program performed by Corpus Christi MPO and is the basis for the CPG.
- The Corpus Christi MPO transportation planning tasks are funded through a two-year CPG that combines the Federal Highway Administration (FHWA) and Federal Transit Administration (FTA) into metropolitan transportation planning funds (TPF).
- TxDOT and CCRTA federal transportation planning funds are not included in the CPG; however, metropolitan transportation planning activities by TxDOT and CCRTA are included in the UPWP with the appropriate sources of federal funding listed.
- The FTA transfers FTA Section 5303 funds allocated for metropolitan transportation planning in the UPWP to FHWA.
- FHWA consolidates the transferred FTA funds with Metropolitan Planning (PL) and Category 7 (STP) funds allocated for metropolitan transportation planning in the UPWP and makes a CPG to the TxDOT.
- TxDOT administers the CPG through a contract with Corpus Christi MPO and reimburses the Corpus Christi MPO monthly for transportation planning activities in the UPWP.
- The UPWP includes additional Corpus Christi MPO work efforts not funded through the CPG.

Federal Consolidated Planning Grant funds are allocated using a matching ratio of 82.79% Federal and 17.21% local funds. In lieu of local funds, the Texas Department of Transportation applies federally approved transportation development credits in sufficient volume to match both the FHWA PL and FTA Section 5303 funding programs. As the credits reflect neither cash nor person-hours, they are not shown in the funding tables.

Surface Transportation Block Grant funds (Category 7) are commonly used for Metropolitan Planning purposes and may be requested for specific needed projects that do not have sufficient revenues from PL / FTA 5303.

There are also several federal grant programs that can be competed for nationally, including safety and resiliency projects. The Corpus Christi MPO staff applied for a safety grant in FY 2020. Although not funded in this selection process, the MPO staff will continue to look for opportunities to leverage additional transportation planning funds.

STATE FUNDING SOURCES – Any potential State funds used by the Corpus Christi MPO originate from grants received for specific Subtasks. These are a non-federal source of funds.

OTHER NON-FEDERAL FUNDING SOURCES – Non-federal funds used by the Corpus Christi MPO typically originate from annual contributions for services paid by local entities to Corpus Christi MPO. Other funds, if any, are directly attributable to the governmental unit identified or through a project specific funding partnership. This includes in-kind services.

DRAFT FY 2021 – FY 2022 UNIFIED PLANNING WORK PROGRAM (UPWP)

PLANNING FUNDS ALLOCATION PROCESS – Federal planning funds allocated to the State of Texas are distributed according to a formula developed by the State, in consultation with Texas's metropolitan planning organizations, and is formalized in a memorandum of understanding approved by the USDOT. As directed by legislation, the formula to distribute federal planning funds considers population, status of planning, attainment of air quality standards, metropolitan area transportation needs, and other factors necessary to provide for an appropriate distribution of funds to carry out the requirements of 23 USC 134 and other applicable sections of Federal law.

According to the Memorandum of Understanding between TXDOT, FHWA and FTA, the distribution formula for the CPG is based on the MPO's percentages of the total urbanized area (UZA) population, as defined by the 2010 U.S. Census. For the purpose of calculating FY 2021 and FY 2022 federal planning funding, the portion of the 2010 statewide urban population allocated to the Texas Corpus Christi Urbanized Area is 14.5 percent.

EXHIBIT 10. Corpus Christi MPO 2-Year Budget Summary for FY 2021 and FY 2022

UPWP Task	Description	2-Year TPF¹ Federal Funds	2-Year FTA 5307 Funds	State Funds	Other Funds	Total Funds
1.0	Administration-Management	\$1,314,000	\$0	\$0	\$ 100,000	\$1,414,000
2.0	Data Development and Maintenance	\$315,000	\$0	\$0	\$ 0	\$315,000
3.0	Short Range Planning	\$362,000	\$0	\$0	\$ 0	\$362,000
4.0	Metropolitan Transportation Planning	\$349,000	\$0	\$0	\$ 0	\$349,000
5.0 ²	Special Studies	\$80,000	\$0	\$0	\$0	\$80,000
TOTAL		\$2,420,000	\$0	\$0	\$100,000	\$2,520,000

¹ TPF – This includes both FHWA PL-112 and FTA Section 5303 Funds. TxDOT will apply transportation development credits sufficient to provide the match for TPF. As the credits reflect neither cash nor man-hours, they are not reflected in the funding tables.

²Strategic Reserves funded special projects TBD by TPC. Estimated cost: \$100,000. (\$50,000 annually).

Combined Transportation Planning Funds ³	\$2,516,450
Estimated Unexpected Carryover	\$3,550
TOTAL Transportation Planning Funds	\$2,520,000

³Estimated base on prior year's authorizations

EXHIBIT 11. Corpus Christi MPO FY 2021 & FY 2022 Revenue Sources

TRANSPORTATION PLANNING FUNDS (TPF)	
FY 2021 FHWA CPG (PL-112 + FTA Section 5303)	\$760,000
FY 2022 FHWA CPG (PL-112 + FTA Section 5303)	\$760,000
Programmed TPF Carryover	\$577,000
Estimated Unprogrammed TPF Carryover	\$3,500
Total TPF Available to Program	\$2,420,000
Total 2-Year TPF Programmed	\$2,240,000
TPF Programmed in FY 2021	\$1,350,000
TPF Programmed in FY 2022	\$1,070,000
TPF Unprogrammed Balance	\$3,500
Other Planning Funds	
Local Contributions Paid to Corpus Christi MPO	\$100,000
TBD	\$0
TBD	\$0
Total Other Funds Programmed	\$100,000
TOTAL FUNDS PROGRAMMED	\$2,520,000

SECTION VIII. PARTNER AGENCY PLANNING STUDY COORDINATION

Other Regionally Significant Transportation-Related Planning Activities

In addition to the tasks previously outlined in this UPWP for Corpus Christi MPO staff, other transportation transportation-related activities will be conducted by various transportation planning and implementation agencies. The FAST Act requires that the UPWP include a description of all metropolitan transportation planning activities anticipated within the next two-year period, regardless of funding source or agencies conducting the activities. The following information summarizes the efforts that were submitted to Corpus Christi MPO for inclusion in this document. Note: Project descriptions are provided by the respective government entity staff.

TxDOT Planning Efforts

- Regional TSMO / Regional ITS Update Planning Effort
- Household Travel Survey
- Regional Crash Analysis
- District Traffic Count Program
- Pavement Condition Gathering Program
- Smart Mobility Study

Portland	FM 893	Proposed improvements to FM 893 (Moore Ave) from CR 3685 (Stark Road) to 0.2 miles west of CR 79 (Gum Hollow).
Gregory, Portland and Ingleside	SH 361	A feasibility study is to identify opportunities to better connect US 181 and SH 361 while also improving safety and mobility.
Nueces County	FM 70	Proposed improvements to FM 70 from the SH 286/FM 70 intersection to US 77 and on SH 286 from south of FM 244 to FM 70.
Corpus Christi	I-37	Proposed upgrades to I-37 from Redbird Lane to US 77.
Corpus Christi	SH 358	Construction of improvements to enhance safety and increase mobility.
Corpus Christi	SH 286	Proposed improvements to SH 286 from FM 43 to FM 2444.
Woodsboro/Refugio	US 77	Corridor study to review potential route options and environmental constraints for developing I-69.
South Texas	US 77 Upgrade	Upgrade between Corpus Christi and Harlingen to meet interstate highway standards.

- Resiliency
- Evacuation
- Freight Corridor
- Performance Attainment

City of Corpus Christi Planning Efforts

- Pavement Condition Data gathering and Asset Management Study
- Traffic Signal and Intelligent Traffic Systems Study

Northwest Boulevard Corridor Study – The City of Corpus Christi is working with urban planning consultants from Asakura Robinson to create a plan that will guide future development in the area and identify opportunities to improve Northwest Boulevard. The plan will include conceptual drawings and implementation strategies to bring the ideas in the plan to reality. The community’s input is needed to create the plan, and the community will have several opportunities to participate, including online surveys and two public meetings. The nearly three-mile study area comprises a 500-foot buffer to the north and south of Northwest Boulevard from Interstate 69 to Wright Moravek Road (County Road 73).

The City of Corpus Christi anticipates additional residential and commercial development, as well as a new elementary school, in the Northwest Boulevard (FM 624) Corridor. Plans to build a new steel factory in nearby Sinton, Texas, could drive additional demand for new housing and commerce in Calallen.

While new development creates new opportunities for people to live, work and do business in Calallen, it can also bring new challenges, such as more auto traffic, and more demands on critical infrastructure. This planning study represents the City of Corpus Christi’s effort to proactively plan for orderly, attractive and sustainable growth and development consistent with the community’s vision.

Schedule:

May 2020: Visioning

June 2020: Selection of Preferred Development Alternative

September 2020: Public Hearings/Plan Adoption

Flour Bluff Area Redevelopment Plan Update – The City of Corpus Christi is currently working with the Freese and Nichols planning team to create a new Flour Bluff Area Development Plan. This plan will give guidance for future development in the area and identify opportunities to improve existing facilities.

The plan will include conceptual drawings and implementation strategies to bring the ideas in the plan to reality. The community’s input is needed to create the plan and the community will have several opportunities to participate, including an online survey and public meetings.

Westside Area Development Plan Update – The City of Corpus Christi is currently working with the Freese and Nichols planning team to create a new Westside Area Development Plan. This plan will give guidance for future development in the area and identify opportunities to improve existing facilities.

The plan will include conceptual drawings and implementation strategies to bring the ideas in the plan to reality. The community’s input is needed to create the plan and the community will have several opportunities to participate, including an online survey and public meetings.

Crossgate Trail Hike and Bike Study

Schanen Hike and Bike Trail Study

Oso Creek Trail Study

FM 43 Corridor Study

FM 2444 Corridor Study

Padre Island Area Development Plan Update

Nueces County Planning Efforts

- Operation Code Blue: Reviving South Texas’ Coastal Economy
- CIP Transportation Projects – Corridor Plans
- County Airport Facilities/Master Plan

City of Portland Planning Efforts

Plan Portland 2040 – The City of Portland is beginning a 12-month process to update its 2012 Comprehensive Plan. The Plan serves as a roadmap for the next 10 to 20 years, which will help guide decisions related to land uses, transportation, housing, parks, community image, and public facilities. Over the next year, the City will host two Community Open House meetings, an online survey, and several steering committee meetings that will be open to the public. Future work will be occurring in the following areas:

- Chapter 1 Baseline Analysis ([Draft 209.03.25](#))
- Chapter 2 Vision
- Chapter 3 Transportation
- Chapter 4 Parks & Open Space
- Chapter 5 Housing
- Chapter 6 Public Facilities
- Chapter 7 Future Land Use
- Chapter 8 Community Image
- Chapter 9 Implementation

San Patricio County Planning Efforts

- Countywide Industrial Master Plan

Corpus Christi Regional Transportation Authority Planning Efforts

- On-board Rider Survey
- Specialized Transit Plan Update

Port of Corpus Christi Authority Planning Efforts

Joe Fulton Corridor, Rincon Industrial Complex Improvements – The Port of Corpus Christi was awarded a grant by the Texas Department of Transportation (TxDOT) under the 2019-2020 Port Access Program for safety improvements to the Joe Fulton International Trade Corridor and Rincon Road leading to the Rincon Industrial Complex. The Port Access Program is funded by the Texas Mobility Fund and is designed to improve safety and fluidity of roads around Texas seaports. The Mobility Fund is underwritten through vehicle title fees, driver record fees, drivers license fees and vehicle inspections.

The significant growth in recent years along the Corpus Christi Ship Channel Inner Harbor, including additional rail infrastructure, necessitates a new frontage road south of the rail corridor that parallels the Joe Fulton Corridor to maintain vehicle safety and mobility.

The Rincon Industrial Complex is one of the newest facilities targeting breakbulk cargo such as wind energy components, military cargo and steel pipe. The Port of Corpus Christi has made significant capital investments on Rincon in the past two years, including the construction of 40 acres of flexible cargo storage space and roughly 12,000 linear feet of rail to accommodate liquid transloading and processing of breakbulk cargo. Additional congestion from the construction of the new Harbor Bridge has increased the traffic burden on Rincon Road. The TxDOT-funded improvements will enhance truck mobility, highway connectivity and safety, including the addition of intelligent transportation system (ITS) components.

First Phase of Avery Point Terminal Redevelopment – The Port of Corpus Christi has received a federal grant of more than \$17 million from the U.S. Department of Transportation – Maritime Administration to expand Oil Dock 3 as the first of four phases in the redevelopment of the Avery Point Terminal (Avery Point).

Located on the Corpus Christi Ship Channel’s Inner Harbor, Avery Point is one of the Port of Corpus Christi’s most productive public oil terminals, currently operating at over 84% capacity. The four ship docks, however, are more than 55 years old and require major rehabilitation or reconstruction to safely and efficiently accommodate today’s modern vessel fleet. This high utilization prohibits the decommissioning and redevelopment without the creation of new berth capacity nearby to accommodate existing (and growing) demand during the reconstruction.

The \$17.6 million grant will double barge berthing capacity at Oil Dock 3 (OD3), located on the easternmost edge of the terminal, to accommodate 90 percent of barge traffic currently calling on the other three Avery Point docks (Docks 4, 7 and 11). This will create enough surplus capacity at the other three docks to allow phased decommissioning and redevelopment of each without any disruption of operations. The Port is committed to maintaining close coordination with all users of the Avery Point Terminal throughout the process to ensure continuity of operations. Total project cost is estimated at \$22 million, with \$17.6 million coming from the Port Infrastructure Development Grant and the remaining balance coming from the Port of Corpus Christi.

Corpus Christi International Airport Planning Efforts

- Master Plan Update

Coastal Bend Council of Governments Planning Effort

- Specialized Transit Plan Update

Military Installation Coordination

**SECTION IX
APPENDICES**

APPENDIX A

**CORPUS CHRISTI METROPOLITAN PLANNING ORGANIZATION
COMMITTEE MEMBERSHIP**

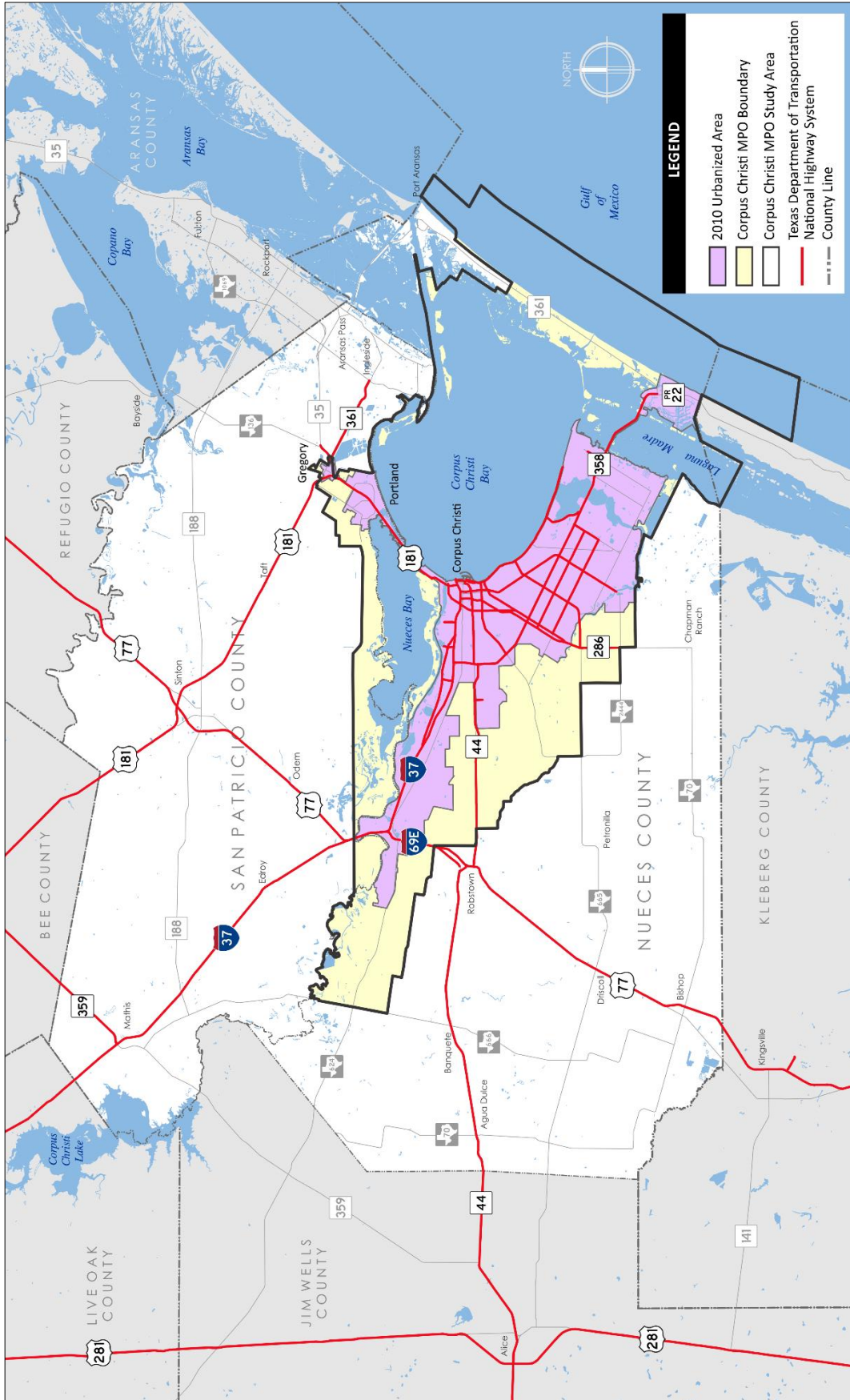
TRANSPORTATION POLICY COMMITTEE (TPC)		
VOTING MEMBERS		
Hon. David R. Krebs, Chair	County Judge	San Patricio County
Charles W. Zahn, Jr., Vice-Chair	Board Chairman	Port of Corpus Christi Authority
Hon. Barbara Canales	County Judge	Nueces County
Hon. Cathy Skurow	Mayor	City of Portland
Hon. Joe McComb	Mayor	City of Corpus Christi
Edward Martinez	Board Chairman	Corpus Christi Regional Transportation Authority
Valente Olivarez, Jr., P.E.	District Engineer	Texas Department of Transportation – Corpus Christi District
EX-OFFICIO NON-VOTING MEMBERS		
Anthony M. Jones	Transportation Planner	Federal Highway Administration – Texas Division
Tony Ogboli	Community Planner	Federal Highway Administration – Region VI
Sara Garza	Transportation Planner	Texas Department of Transportation – Transportation Planning & Programming (TPP)
Lynn Hayes	Community Planner	Federal Highway Administration – Region VI
John Buckner	Representative	Coastal Bend Council of Governments
State Legislators or Member of U.S. Congress		Texas Legislators / United States Congress (District included in the MPO Study Area)

TECHNICAL ADVISORY COMMITTEE (TAC)		
VOTING MEMBERS		
Brian DeLatte, P.E.*, Chair	Deputy City Manager	City of Portland
Gordon Robinson, AICP*, Vice-Chair	Director of Planning	Corpus Christi Regional Transportation Authority
Howard Gillespie	County Commissioner Pct. 4	San Patricio County
Sarah F. Munoz, P.E.	Assistant Director of Street Operations	City of Corpus Christi
Jeff Pollack, AICP, ENV SP	Director of Planning	Port of Corpus Christi Authority
Juan Pimentel, P.E.	Director of Public Works	Nueces County
Paula Sales-Evans, P.E.	Director Transportation Planning & Development	Texas Department of Transportation – Corpus Christi District
EX-OFFICIO NON-VOTING MEMBERS		
Anthony M. Jones	Transportation Planner	Federal Highway Administration – Texas Division
Tony Ogboli	Community Planner	Federal Highway Administration – Region VI
Sara Garza	Transportation Planner	Texas Department of Transportation – Transportation Planning & Programming (TPP)
Lynn Hayes	Community Planner	Federal Highway Administration – Region VI
Richard Bullock	Representative	Coastal Bend Council of Governments
State Legislators or Member of U.S. Congress		Texas Legislators / United States Congress (District included in the MPO Study Area)

*Designated Alternate

APPENDIX B

CORPUS CHRISTI METROPOLITAN AREA BOUNDARY MAP



APPENDIX C

**DEBARMENT CERTIFICATION
(Negotiated Contracts)**

- (1) The **Corpus Christi Metropolitan Planning Organization** as **CONTRACTOR** certifies to the best of its knowledge and belief, that it and its principals:
 - (a) Are not presently debarred, suspended, proposed for debarment, declared ineligible or voluntarily excluded from covered transactions by any federal department or agency;
 - (b) Have not within a three-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public* transaction or contract under a public transaction; violation of federal or state antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;
 - (c) Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity* with commission of any of the offenses enumerated in paragraph (1)(b) of this certification; and
 - (d) Have not within a three-year period preceding this application/proposal had one or more public transactions* terminated for cause or default.
- (2) Where the **CONTRACTOR** is unable to certify to any of the statements in this certification, such **CONTRACTOR** shall attach an explanation to this certification.

**federal, state or local*

Honorable David R. Krebs, San Patricio County Judge

Chairperson – MPO Transportation Policy Committee

Title

September 3, 2020

Date

APPENDIX D

**LOBBYING CERTIFICATION
CERTIFICATION FOR CONTRACTS, GRANTS,
LOANS AND COOPERATIVE AGREEMENTS**

The undersigned certifies to the best of his or her knowledge and belief, that:

- (1) No federal appropriated funds have been paid or will be paid by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any federal contract, the making of any federal grant, the making of any federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any federal contract, grant, loan, or cooperative agreement.
- (2) If any funds other than federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form - LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.
- (3) The undersigned shall require that the language of this certification be included in the award documents for all subawards at all tiers (including subcontracts, subgrants, and contracts under grants, loans, and cooperative agreements) and that all subrecipients shall certify and disclosure accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by Section 1352, Title 31, U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

Honorable David R. Krebs, San Patricio County Judge

Chairperson – MPO Transportation Policy Committee

Title

Corpus Christi Metropolitan Planning Organization

Agency

September 3, 2020

Date

APPENDIX E

CERTIFICATE OF COMPLIANCE

I, **David R. Krebs**, County Judge for San Patricio County, a duly authorized officer/representative of the **Corpus Christi Metropolitan Planning Organization** do hereby certify that the contract and procurement procedures that are in effect and used by the forenamed MPO are in compliance with 2 CFR 200, "Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards," as it may be revised or superseded.

September 3, 2020

Date

Honorable David R. Krebs, Chairperson
MPO Transportation Policy Committee

ATTEST:

Robert F. MacDonald, MPA, P.E.

MPO Transportation Planning Director

Title

APPENDIX F

CERTIFICATION OF INTERNAL ETHICS AND COMPLIANCE PROGRAM

I, **David R. Krebs**, County Judge for San Patricio County, a duly authorized officer/representative of the **Corpus Christi Metropolitan Planning Organization** do hereby certify that the forenamed MPO has adopted and does enforce an internal ethics and compliance program that is designed to detect and prevent violations of law, including regulations and ethical standards applicable to this entity or its officers or employees and that the internal ethics and compliance program satisfies the requirements of by 43 TAC § 31.39 “Required Internal Ethics and Compliance Program” and 43 TAC § 10.51 “Internal Ethics and Compliance Program” as may be revised or superseded.

September 3, 2020

Date

Honorable David R. Krebs, Chairperson
MPO Transportation Policy Committee

ATTEST:

Robert F. MacDonald, MPA, P.E.

MPO Transportation Planning Director

Title

APPENDIX G

PUBLIC COMMENTS

(Reserved for public comments gathered from June 18, 2020 to September 3, 2020)

APPENDIX H

TRANSPORTATION TERMS AND ABBREVIATIONS

3-C - Continuing, Cooperative, and Comprehensive: planning process.

AADT - Average Annual Daily Traffic: The number of vehicles passing a fixed point in a year, averaged over 365 days.

Accessibility: A measure of how easy it is to reach (and interact with) destinations or activities around a city or county.

ADA - Americans with Disabilities Act of 1990: Federal law that requires public facilities (including transportation services) to be accessible to persons with disabilities including those with mental disabilities, temporary disabilities, and the conditions related to substance abuse.

ADT - Average Daily Traffic: The number of vehicles passing a fixed point in a day, averaged over a number of days. The number of count days included in the average varies with the intended use of data.

AMPO - Association of Metropolitan Planning Organizations: Nonprofit membership organization serving the interests of metropolitan planning organizations nationwide.

AVO - Average Vehicle Occupancy: The ratio of person trips to vehicle trips; often used as a criteria in judging the success of trip reduction programs.

AVR - Average Vehicle Ridership: The number of employees scheduled to start work during specified period divided by the number of vehicles arriving at the site during that same period.

CCRTA - Corpus Christi Regional Transportation Authority: "The B" as it is locally known, is the urban public transportation service provider. Operations began in January 1986 with services to the citizens of the Coastal Bend, including the cities of Agua Dulce, Banquete, Bishop, Corpus Christi, Driscoll, Gregory, Port Aransas, Robstown, and San Patricio City.

CMP - Congestion Management Process: A systematic process that addresses congestion in the metropolitan area. It emphasizes effective management and operations, and shall include methods to monitor and evaluate the performance of the multi-modal transportation systems, identify causes of congestion, identify and evaluate alternative actions, provide information supporting the implementation of actions, and evaluate the efficiency and effectiveness of implementation actions.

CSJ - Control Section Job Number: TxDOT assigned number for projects entered into the Project Development Program (PDP). This number is unique to each individual project.

DOT - Department of Transportation: Agency responsible for transportation at the local, state, or federal level. For title 23 U.S.C. federal-aid highway actions, this would mean the Federal Highway Administration and for federal-aid transit actions under title 49 U.S.C, this would mean the Federal Transit Administration.

EIS - Environmental Impact Statement: A National Environmental Policy Act (NEPA) document that explains the purpose and need for a project, presents project alternatives, analyzes the likely impact of each, explains the choice of a preferred alternative, and finally details measures to be taken in order to mitigate the impacts of the preferred alternative.

EJ - Environmental Justice: Describes the impact of transportation plans or projects, either positive or negative, on a particular community or population. Derived from Title VI of the Civil Rights Act of 1964. Environmental Justice strives to ensure public involvement of low income and minority groups in decision making, to prevent disproportionately high and adverse impacts on low income and minority groups, and to assure that these groups receive equal benefits from transportation improvements.

DRAFT FY 2021 – FY 2022 UNIFIED PLANNING WORK PROGRAM (UPWP)

ETJ - Extraterritorial Jurisdiction: Geographic area subject to urban municipality ordinance and platting requirements.

FAST ACT – Fixing America’s Surface Transportation: The federal law passed in 2015 to provide long-term funding for surface transportation infrastructure, planning and investment. It expires on September 30, 2020. It is likely that continuing resolutions will be necessary to extend past this expiration date.

Federal Aid Highway: Those highways eligible for assistance under Title 23 of the United States Code (U.S.C), which does not include those functionally classified as local streets or rural minor collectors.

FHPP - Federal High Priority Projects: Discretionary projects earmarked by the U.S. Congress as high priorities at the federal level during the Congressional appropriations and reauthorization process. This amounts to roughly 5% of the total transportation budget.

FHWA - Federal Highway Administration: U.S. Department of Transportation Division responsible for administrating federal highway transportation programs under title 23 U.S.C.

Fiscal Constraint: A requirement, that all plans be financially – constrained, balanced programmed expenditures are not more than the reasonably expected sources of funding over the period of the TIP or Long-Range Transportation Plan.

FTA - Federal Transit Administration: Federal entity responsible for transit planning and programs under title 49 U.S.C.

Funding Category: The Texas Transportation Commission (Commission) and TxDOT use the UTP as TxDOT’s ten-year plan to guide transportation project development and construction. The UTP has two major components: Preservation & Safety and Mobility.

F. CLASS – Functional Class: Categorizes streets and highways according to their ability to 1) move traffic, and 2) provide access to adjacent properties. It also determines eligibility for federal funds. There are three main functional classes as defined by the United States Federal Highway Administration: arterial, collector, and local. In addition to mobility and access, other factors can help determine the proper category to which a particular roadway belongs - such as trip length, speed limit, volume, and vehicle mix.

FY - Fiscal Year: A federal fiscal or budget year; runs from October 1 through September 30 for the MPO and the federal government.

Goals: The description of a desired outcomes. The purpose toward which funding is directed. (e.g., provide safe and secure transportation across modes.)

HOV - High Occupancy Vehicle: In Texas, vehicles carrying two (2) or more people receive this designation and may travel on freeways, expressways and other large volume roads in lanes designated for high occupancy vehicles.

IMS - Incident Management System: A systematic process first required under SAFETEA-LU, and continued under the FAST Act to provide information on accidents and identify causes and improvements to the Transportation system to increase safety of all users.

Intergovernmental Agreement: Legal instrument describing tasks to be accomplished and/or funds to be paid between government agencies.

Indicator: A performance measure that is used to identify relevant background conditions and trends.

ITE - Institute of Transportation Engineers: An international society of professionals in transportation and traffic engineering; publishes Trip Generation (a manual of trip generation rates by land use type).

ITS - Intelligent Transportation Systems: A range of advanced computer and communications technologies that improve mobility, enhance safety, maximize the use of existing transportation facilities, conserve energy resources and reduce adverse environmental effects.

DRAFT FY 2021 – FY 2022 UNIFIED PLANNING WORK PROGRAM (UPWP)

LCA – Lifecycle Cost Analysis: A methodology for assessing the sum of project costs for all stages of the lifespan of a transportation project. This includes planning, design, construction, environmental impact mitigation, operations, preventive maintenance, and reconstruction.

LEP - Limited English Proficiency: Clarifies the responsibilities of recipients of federal financial assistance and assist them in fulfilling their responsibilities to LEP persons, pursuant to Title VI of the Civil Rights Act of 1964 and its implementing regulations.

LOS - Level of Service: A qualitative assessment of a road's operating condition, generally described using a scale of A (little congestion) to E/F (severe congestion).

MAP-21 - Moving Ahead for Progress in the 21st Century Act: Enacted July 6, 2012, the federal law creates a streamlined and performance-based surface transportation program and builds on highway, transit, bike, and pedestrian programs and policies established in 1991.

MPA - Metropolitan Planning Area: Encompass the entire existing urbanized area and the contiguous area expected to become urbanized within a 20-year forecast period for the metropolitan transportation plan.

Maintenance: Activities undertaken to keep transportation infrastructure and equipment operating as intended, to eliminate deficiencies, and to extend or achieve the expected life of facilities before reconstruction is needed. These include routine or day-to-day activities (e.g., pothole patching, mowing, litter removal, guardrail repair and striping, routine bus inspection and maintenance, and periodic dredging of channels) and periodic major projects (e.g., resurfacing roadways and runways and rehabilitating bridges).

Measures: Indicators of how well the transportation system or specific transportation projects will improve transportation conditions. Used in assessing relevant background conditions and trends to aid identifying projects for funding and trajectory toward desired future conditions.

MG - Minimum Guarantee: A funding category created in TEA-21 that guarantees a 90% return of contributions on formula funds to every state.

Mobility: The ability to move or be moved freely and easily. It is typically used in conjunction with accessibility. This term is also used by TxDOT for one of the major groups of transportation funds. funds.CAT 7: Metropolitan Mobility and Rehabilitation; CAT 9: Transportation Enhancements; CAT 10: Supplemental Transportation Projects; CAT 11: District Discretionary; CAT 12: Strategic Priority.

MPO - Metropolitan Planning Organization: The forum of local elected officials responsible for cooperative transportation decision-making; required for urbanized areas with populations over 50,000.

MTP - Metropolitan Transportation Plan: 25-year forecast required of MPOs and state planning agencies; considers a range of social, environmental, energy, and economic factors in determining overall regional goals and how transportation can best meet these goals.

NHS - The National Highway System: Consists of roadways important to the nation's economy, defense, and mobility. The NHS includes the following subsystems of roadways:

- **Interstate:** The Eisenhower Interstate System of highways retains its separate identity within the NHS.
- **Other Principal Arterials:** These are highways in rural and urban areas which provide access between an arterial and a major port, airport, public transportation facility, or other intermodal transportation facility.
- **Strategic Highway Network (STRAHNET):** This is a network of highways which are important to the United States' strategic defense policy and which provide defense access, continuity, and emergency capabilities for defense purposes.
- **Major Strategic Highway Network Connectors:** These are highways which provide access between major military installations and highways which are part of the Strategic Highway Network.
- **Intermodal Connectors:** These highways provide access between major intermodal facilities and the other four subsystems making up the National Highway System. A listing of all official NHS Intermodal Connectors is available.

DRAFT FY 2021 – FY 2022 UNIFIED PLANNING WORK PROGRAM (UPWP)

Operations: The implementation of policies, projects, and technologies to improve road performance. The overriding objectives of operations programs include minimizing congestion (and its side effects), improving safety, and enhancing overall mobility.

Performance Based Planning and Programming: The process developed to evaluate and select transportation projects. This includes monitoring progress toward achieving goals and objectives at the agency strategic, decision-making and project delivery levels.

Officials: Are people who have governmental decision-making, planning or administrative responsibilities that relate to MPO activities.

Phase: Project phase for federal funding - PE: Preliminary Engineering; ROW: Right of Way Acquisition; CON: Construction; T: Transfer.

PMS - Pavement Management System: A systematic process utilized by state agencies and MPOs to analyze and summarize pavement information for use in selecting and implementing cost-effective pavement construction, rehabilitation, and maintenance programs; required for roads in the National Highway System as a part of ISTEA; the extent to which the remaining public roads are included in the process is left to the discretion of state and local officials; criteria found in 23 CFR 500.021-209.

Preservation & Safety: funding category of the UTP includes maintenance and rehabilitation projects to maintain the existing transportation system and to improve certain safety aspects. Categories are: CAT 1: Preventive Maintenance and Rehabilitation; CAT 6: Structures Replacement and Rehabilitation (Bridges); CAT 8: Safety.

PROJ ID - Project Identification: Identification number assigned by the MPO for local tracking and identification. Used to relate projects to the MTP.

PTMS - Public Transportation Facilities and Equipment Management System: A systematic process utilized by state agencies and MPOs to collect and analyze information on the condition and cost of transit assets on a continual basis; data is to be used to help people choose cost effective strategies for providing and keeping transit facilities and equipment in good condition; process must be developed in Transportation Management Areas (TMAs); the use of CMS in non-TMAs is left to the discretion of state and local officials.

PPP - Public Participation Plan: Is an integral part of a planning or major decision-making process. It provides opportunities for the public to be involved with the MPO in an exchange of data and ideas. Citizen participation offers an open process in which the rights of the community, to be informed to provide comments to the Government and to receive a response from the Government, are met through a full opportunity to be involved and to express needs and goals.

Public: Includes citizens, public agencies, advocacy groups and the private sectors that have an interest in or may be affected by MPO activities.

RCAT - CCRTA Committee on Accessible Transportation: Members act as ambassadors on transportation ridership issues related to transportation disadvantaged riders and services.

Resurfacing: Projects that are intended to preserve the structural integrity of highway pavements by rehabilitation, minor reconstruction, and pavement milling and recycling.

ROW - Right-of-Way: Real property that is used for transportation purposes; defines the extent of the corridor that can be used for the road and associated drainage.

Routine Maintenance: Operations that may be predicted and planned in advance. These operations (e.g.: cleaning and debris removals, regular inspections, mowing, preventive maintenance, etc.), which may be preventive or corrective in nature, should be conducted on a regularly scheduled basis using standard procedures.

RTDM - Regional Travel Demand Model: This is a tool for forecasting impacts of urban developments on travel patterns as well as testing various transportation alternative solutions to traffic patterns. The travel patterns are

DRAFT FY 2021 – FY 2022 UNIFIED PLANNING WORK PROGRAM (UPWP)

determined from US census results and in simple terms tell where residents live and where they go to work or school on a regional wide basis.

Safety Analysis: A comprehensive assessment of safety outcomes with and without a specific project under consideration, including a general analysis of historical crash data on the facility under consideration, a detailed review of fatal crashes and their causes.

SHSP – Strategic Highway Safety Plan: A Federally required plan to reduce crashes on all public roads adopted by TxDOT in 2019. The current plan includes 7 emphasis areas.

SIB - State Infrastructure Bank: Method of financing large capital projects by taking advantage of borrowing against future state revenues.

SMP - Statewide Mobility Plan: TxDOT's 10-year plan for adding capacity to the system by using the Mobility Category Funds of Federal and State Transportation funding.

Sponsoring Agencies: Organizations or governmental units, which enter into agreements with the MPO to undertake transportation related activities.

SPP - Statewide Preservation Plan: TxDOT's 10-year plan for maintaining the system using the preservation categories of Federal and State Transportation funding. It is one half of the overall 10-year Unified Transportation Plan.

Stakeholders: Individuals and groups with an interest in the outcomes of policy decisions and actions.

STIP - State Transportation Improvement Program: The TxDOT Five Year Work Program as prescribed by federal law. It incorporates the TIPs from all MPO in the state without modification. Projects included in the STIP must be consistent with the regional and state long-range transportation plan.

TAC - Technical Advisory Committee: A standing committee of most metropolitan planning organizations (MPOs); function is to provide advice on plans or actions of the MPO from planners, engineers, and other staff members (not general citizens).

TCEQ - Texas Commission on Environmental Quality: The TCEQ is the environmental agency for the state.

TCI - Texas Congestion Index: An index to measure the magnitude of congestion in a single performance measure across the state. The index measures the mobility of people and goods in each Texas metropolitan area, with attention to the delay time experienced by drivers.

TIP - Transportation Improvement Program: A priority list of transportation projects developed by a metropolitan planning organization that is to be carried out within the four (4) year period following its adoption; must include documentation of federal and state funding sources for each project and be consistent with adopted MPO long range transportation plans and local government comprehensive plans.

Title VI - Civil Rights Act: As a recipient of federal funds, the MPO ensures that no person shall, on the grounds of race, religion, color, national origin, sex, age, or disability be excluded from participation in, be denied the benefits of, or otherwise be subjected to discrimination under any agency programs or activities.

TMA - Transportation Management Area: An area designated by the U.S. Department of Transportation given to all urbanized areas with a population over 200,000 (or other area when requested by the Governor and MPO); these areas must comply with special transportation planning requirements regarding congestion management systems, project selection and certification; requirements identified in 23 CFR - 450.300-33.6.

TMMP - Texas Metropolitan Mobility Plan: This is a state-based requirement intended to serve as a framework for identifying unmet transportation needs in the state's larger metropolitan areas. The TMMP is a needs-based plan which quantifies transportation needs beyond the fiscal constraint barrier.

TPC - Transportation Policy Committee: The decision-making body for the MPO. This committee was created to serve as spokespersons for the citizens of the metropolitan area and to prioritize and direct federal transportation

DRAFT FY 2021 – FY 2022 UNIFIED PLANNING WORK PROGRAM (UPWP)

funds to local projects. The TPC is comprised of elected officials from the cities and two counties in the urbanized area, along with TXDOT, RTA, and Port Authority. TPC meetings are open to the public on the first Thursday of each month at 1:30 P.M. at the Corpus Christi City Hall, City Council Chambers.

Transportation Disadvantaged: People who are unable to transport themselves or to purchase transportation due to disability, income status or age.

Transportation Alternatives Program: A funding program that includes the federal Transportation Alternatives (TA) Set-Aside Program. These funds may be awarded for the following activities: Construction of sidewalks, bicycle infrastructure, pedestrian and bicycle signals, traffic-calming techniques, lighting and other safety-related infrastructure, and transportation projects to achieve compliance with the Americans with Disabilities Act Construction of infrastructure-related projects that provide safe routes for non-drivers. Conversion and use of abandoned railroad corridors for trails for pedestrian, bicyclists, or other non-motorized transportation users. Construction of infrastructure-related projects to improve the ability of students to walk and bicycle to school.

TSMO - Transportation Systems Management and Operations: Strategies to improve the efficiency of the transportation system through operational improvements such as the use of bus priority or reserved lanes, signalization, access management, turn restrictions, etc.

TTI - Texas Transportation Institute: A legislatively created research center, located at Texas A&M University in College Station, Texas, whose purpose is to conduct and facilitate research and serve as an information exchange on issues related to urban transportation problems in Texas.

TxDOT - Texas Department of Transportation: State agency responsible for transportation issues in Texas.

UZA - Urbanized Area: A Census-designated area consisting of a central core and adjacent densely settled territory with populations of 50,000 residents or more.

UPWP - Unified Planning Work Program: Developed by MPOs to identify transportation and planning activities anticipated within the next one to two years, including a schedule for the completion of the identified tasks and activities.

UTP - Unified Transportation Plan: This is the state's 10-year Transportation Plan with the first 10 years programmed and the second 15 years of projects under design. This document has two parts. The two parts are: The SMP and SPP, respectively.

V/C Ratio Volume over Capacity Ratio: This is a roadway performance measure to show how a highway volume compares with a highway's capacity.

APPENDIX I

SUBTASK 1.9 – DIRECT EXPENSES

SUBTASK 1.9 a – CONTRACT SERVICES

Work includes annual software maintenance agreements costs. Budgeted dollars shown in the above table may also include consultation services for the following efforts during FY 2021 - FY 2022:

- ArcGIS and other data acquisition;
- Travel Demand Model Development and supporting forecasting software and supporting data;
- Crash analysis software and data;
- Accessibility data and analysis;
- Public participation/information;
- Traffic counts and other transportation-related data acquisition;
- Socioeconomic model revision;
- Travel demand model support and maintenance;
- Congestion Management Process (CMP) Corridor Analysis;
- Corpus Christi MPO eSTIP website;
- Regional Advanced Mitigation Process;
- Acquisition of data and expertise to refine HERS-ST; and
- Other future enhancements to the Regional Modeling System.

Specific work scopes and funding details for activities not eligible for the on-call contracts will be provided to TxDOT prior to release of any requests for proposals. The Corpus Christi MPO TPC and/or the Transportation Planning Director must approve all contractual support services. The actual budget for contract services is heavily dependent upon the amount of carry-over funds.

All arrangements necessary to retain funding for multi-year contract services are subject to approval by TxDOT and the TPC.

SUBTASK 1.9 b – PRINTING/REPRODUCTION SERVICES

Work includes document printing and related services when outside (vendor) services are used.

SUBTASK 1.9 c – EDUCATION/TRAINING/CONFERENCE

Work includes registration and related fees for education, training and conferences for Transportation Planning Program staff development. In FY 2021 and FY 2022 conferences and training may include TEMPO, TxDOT, AMPO, APA, ASCE, ITE, ESRI (GIS), TRB, travel demand model user groups and others as necessary to support the MPO Work Program.

SUBTASK 1.9 d – TRAVEL OUT-OF-STATE

Work includes travel, lodging, subsistence expenses and related items of expense incurred for the Corpus Christi MPO staff traveling out-of-State on official business. Trips may include, but are not limited to, TEMPO, TxDOT, AMPO, APA, ITE, ASCE, ESRI (GIS), NHI trainings, FHWA training, and TRB conferences.

SUBTASK 1.9 e – TRAVEL IN-STATE

Work includes travel, lodging, subsistence expenses and related items of expense incurred for the Corpus Christi MPO staff traveling within the State of Texas on official business.

SUBTASK 1.9 f – SUPPLIES

Work includes purchase of materials and supplies specifically for accomplishing UPWP Subtasks.

SUBTASK 1.9 g – SUPPORT SERVICES

Word includes advertising for public meetings, filling staff positions and miscellaneous support needs, such as communication interpreters for public meetings.

DRAFT FY 2021 – FY 2022 UNIFIED PLANNING WORK PROGRAM (UPWP)

SUBTASK 1.9 h – MEMBERSHIP/SUBSCRIPTIONS/PUBLICATIONS

Work includes the costs of the Corpus Christi MPO 's membership in business, technical, and professional organizations; subscriptions to or purchase of business, professional and technical periodicals/books.

SUBTASK 1.9 i – MAINTENANCE - SOFTWARE/EQUIPMENT

Work includes general computer maintenance costs, as needed. Specific annual items may include, but are not limited to IT systems, phone systems, PC's, laptops, printers and copier maintenance.

SUBTASK 1.9 j – CAPITAL - FURNITURE/EQUIPMENT

The budgeted dollar amount is to support computer hardware and other furniture and/or equipment necessities.



PUBLIC NOTICE #20-7

July 29, 2020

The **Corpus Christi Metropolitan Planning Organization** (Corpus Christi MPO) is seeking public input and comments on the **DRAFT FY 2021 - FY 2022 Unified Planning Work Program (UPWP)**. The UPWP serves as the scope of work for the Corpus Christi MPO and documents transportation-related planning activities conducted in the Corpus Christi MPO Planning Area. In accordance with the Corpus Christi MPO Public Participation Plan, the MPO is seeking to inform those who are interested in or affected by transportation decisions with opportunities to provide input on both the overall UPWP and on work and activities that are listed in the UPWP.

The **DRAFT FY 2021 - FY 2022 Unified Planning Work Program (UPWP)** is being released formally to the public on August 6, 2020 and public input is invited through September 3, 2020 at the following public meetings:

NO IN-PERSON PUBLIC COMMENTS DUE TO COVID-19

Public Comments may be provided in writing, limited to 1,000 characters, by emailing cempo@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.

August 6, 2020, 2:00 p.m.*

MPO Transportation Policy Committee

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

August 12, 2020, 4:30 p.m.*

MPO Public Meeting

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

NO IN-PERSON PUBLIC COMMENTS DUE TO COVID-19

August 20, 2020, 9:00 a.m.*

MPO Technical Advisory Committee

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

September 3, 2020, 2:00 p.m.*

MPO Transportation Policy Committee

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

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

www.corpuschristi-mpo.org

All MPO Committee meetings are public meetings and open to the public subject to the COVID-19 policies mentioned above. Any persons with disabilities who plan to attend this meeting and who may need auxiliary aids or services are requested to contact the MPO at (361) 884-0687 at least 48 hours in advance so that appropriate arrangements can be made.