



MPO TECHNICAL ADVISORY COMMITTEE (TAC)

Rich Szyrka, IRC Public Works
Noah Powers, Town of Orchid
Kristin Daniels, IRC Office of Management
and Budget
Sgt. Christian Mathisen, IRC Sheriff's Office
Karen Deigl, Senior Resource Association
Jennifer Idlette, IRC School Board
Sgt. Kip Benham, Town of Indian River Shores
Mayur Patel, District 4 (non-voting member)

Jason Jeffries, City of Vero Beach Planning
Monte Falls, City of Vero Beach Engineering
Eric Menger, Vero Beach Regional Airport
Paul Carlisle, City of Sebastian Engineering
Scott Baker, City of Sebastian Airport
Lisa Frazier, City of Sebastian Planning
Stan Boling, Community Development Director
Janie Hollingsworth, IRC Traffic Engineer

Jason Nunemaker, City of Fellsmere – Chairman

AGENDA

The MPO TECHNICAL ADVISORY COMMITTEE (TAC) will meet at 10:00 AM on Friday, February 22, 2019 in CONFERENCE ROOM B1-501, County Administration Building B, 1800 27th Street, Vero Beach, FL.

- 1. Call to Order**
- 2. Approval of Minutes**
January 25, 2019
Action Required
- 3. Consideration of a Proposed Scope of Services for Preparation of the Indian River County MPO 2045 Long Range Transportation Plan (LRTP).**
Action Required
- 4. FDOT Presentation on I-95 Master Plan**
No Action Required
- 5. Transportation Systems Management and Operations (TSM&O) Master Plan Presentation**
No Action Required
- 6. Status Report of MPO Advisory Committees**
No Action Required

7. Other Business

8. Comments from the Public

9. Adjournment

Next Meeting: April 26, 2019 – 10:00 AM, Conference Room B1-501.

If you have any questions concerning the items on this agenda, please contact MPO staff at (772) 226-1455. Anyone who may wish to appeal any decision which may be made at this meeting will need to ensure that a verbatim record of the proceeding is made, which includes the testimony and evidence on which the appeal is based. Anyone who needs a special accommodation for this meeting must contact the County's Americans with Disabilities Act (ADA) Coordinator at 772 226-1223 at least 48 hours in advance of the meeting.

For complaints, questions or concerns about civil rights or nondiscrimination; or for special requests under the American with Disabilities Act, please contact: Phil Matson, Title VI Coordinator at (772) 226-1455 or pmatson@ircgov.com.

Except for those matters specifically exempted under State Statute and Local Ordinance, the Committee shall provide an opportunity for public comment prior to the undertaking by the Committee of any action on the agenda. Public comment shall also be heard on any proposition which the Committee is to take action which was either not on the agenda or distributed to the public prior to the commencement of the meeting. Public participation is solicited without regard to race, color, national origin, age, sex, religion, disability or family status. Persons who require special accommodations under the Americans with Disabilities Act or persons who require translation services (free of charge) should contact Phil Matson at (772) 226-1455 or pmatson@ircgov.com at least seven days prior to the meeting.

To view the TAC Agenda packet on-line please go to the following link:

<http://www.ircgov.com/boards/tac/2019/agendas/TAC022219A.pdf>

METROPOLITAN PLANNING ORGANIZATION
TECHNICAL ADVISORY COMMITTEE

A meeting of the Indian River County (IRC) Metropolitan Planning Organization Technical Advisory Committee (MPOTAC) was held at 10:00 AM on Friday, January 25, 2019, 2018 in Conference Room B1-501, Building B, of the County Administration Complex, 1800 27th Street, Vero Beach, Florida.

Note: Audio and video recordings of the meeting can be found at
<http://www.ircgov.com/Boards/TAC/2018.htm>

MPOTAC members present were **Chairman Jason Nunemaker**, City Manager, City of Fellsmere; : **Monte Falls**, City of Vero Beach Public Works Director; **Jason Jeffries**, City of Vero Beach Planning Department; **Chris Stephenson** (alternate), Senior Resource Association; **Scott Baker**, City of Sebastian Airport Director; **Paul Carlisle**, City of Sebastian Engineering; **Ruth Bommarito** (alternate), IRC Budget; **Rich Szpyrka**, IRC Public Works Director; **Stan Boling**, IRC Community Development Director; and **Yanique Kelly**, FDOT (non-voting advisor).

MPOTAC members absent were: **Noah Powers**, Town of Orchid Town Manager; **Eric Menger**, City of Vero Beach Airport Director; **Lisa Frazier**, City of Sebastian Community Development Director; **Karen Deigl**, Senior Resource Association; **Jennifer Idlette**, IRC School Board Transportation Director; **Sgt. Christian Mathisen**, IRC Sheriff's Office; **Sgt. Kip Benham**, Town of Indian River Shores; **Kristin Daniels**, IRC Budget; **Veronica Figueroa**, IRC Traffic Engineering.

Also present were IRC Staff: **Phil Matson**, MPO Staff Director; **Brian Freeman**, MPO Senior Planner, **Jim Mann**, MPO Senior Planner, **Sharon Schalm**, MPO Staff Assistant III & Recording Secretary.

Others present included **John Podczerwinsky**, FDOT.

Call to Order

Chairman Nunemaker called the meeting to order at 10:03 AM at which time it was noted that a quorum was present.

Annual Election of Officers

ON MOTION by Mr. Boling, SECONDED by Mr. Szpyrka, the members voted (9-0) to re-elect Jason Nunemaker as Chairman for the Metropolitan Planning Organization Technical Advisory Committee for 2019.

ON MOTION by Mr. Szyrka, SECONDED by Mr. Boling, the members voted (9-0) to re-elect Monte Falls as Vice Chairman for the Metropolitan Planning Organization Technical Advisory Committee for 2019.

Approval of Minutes of the MPOTAC Meeting of November 30, 2018

MPOTAC Chairman Nunemaker asked if there were any additions or corrections to the MPOTAC minutes of November 30, 2018. There were none.

ON MOTION by Mr. Baker, SECONDED by Mr. Falls, the members voted (9-0) to approve the minutes of the Metropolitan Planning Organization Technical Advisory Committee of November 30, 2018.

Adoption of MPO Safety Performance Targets

Action Required

Mr. Freeman, MPO Senior Planner, gave a PowerPoint presentation, a copy of which is on file in the MPO office. He explained that FDOT required Metropolitan Planning Organizations (MPOs) to implement performance and outcome-based planning practices. Mr. Freeman explained that, according to that legislation, States and MPOs are to invest resources in projects to achieve individual targets in strategic areas that collectively will make progress toward national goals. He further explained that Performance targets for one strategic area, Safety, must be adopted by the MPO Board on an annual basis and according to FDOT, this year's deadline for adoption is February 27, 2019.

Mr. Matson noted that the MPO had two options with respect to adoption of Safety Targets: Adopt FDOT safety targets; or develop its own targets. He explained that adopting the state's aspirational targets demonstrated consistency with the majority of MPO's (including those in our area) and with FDOT and MPO Safety Plans.

ON MOTION BY Mr. Szyrka, SECONDED BY Mr. Boling, the members voted unanimously (9-0) to recommend approval of adopting the State's Safety Performance Targets, as presented

Aviation Boulevard Extension Update

No Action Required

Mr. Matson gave a power point presentation, a copy of which is located in the MPO office. He noted that 37th Street was a vital corridor as it is the primary point of access to the Cleveland Clinic Indian River Hospital. He explained that 37th Street was approaching capacity and when vested trips are considered, together with existing traffic volumes, 37th Street was at

approximately 90% of its adopted level of service. He noted that the widening of 37th Street presents a number of challenges, including cost and disruption of hospital and emergency traffic.

Mr. Matson noted that there are three alternatives. He explained that one alternative which had been considered by staff was to develop a new 2-lane roadway connecting the intersection of Aviation Boulevard/US 1 to 37th Street at Hugh McCrystal Drive near the west entrance to the hospital, and another new, 2-lane road extending from 37th Street to 41st Street.

Mr. Matson noted that County and MPO staff met with the Indian River County Hospital District on January 17th, 2019 and discussed the three alternatives. He explained that, at that time, the District approved the concept and agreed to work with County staff in preparing a draft right-of-way agreement between the District and the County.

Status Report of Other MPO Advisory Committees

Mr. Matson reviewed his memorandum, dated January 15, 2019, included in the agenda packet and on file in the MPO Office.

Other Business

There was none.

Comments from the Public

There were none.

Adjournment

There being no further business, the meeting adjourned at 10:23 AM.

INDIAN RIVER COUNTY, FLORIDA

M E M O R A N D U M

TO: Members of the Indian River County Metropolitan Planning Organization (MPO)
Technical Advisory Committee (TAC)

THROUGH: Stan Boling, AICP
Community Development Director

FROM: Phillip J. Matson, AICP
MPO Staff Director

DATE: February 14, 2019

SUBJECT: **Consideration of a Proposed Scope of Services for Preparation of the Indian River County MPO 2045 Long Range Transportation Plan (LRTP)**

It is requested that the information presented herein be given formal consideration by the Indian River County MPO-TAC at the meeting of February 22, 2019.

SUMMARY

State and Federal regulations require that the MPO prepare a 2045 update to its adopted 2040 Long Range Transportation Plan (LRTP) by January 1, 2020. Consistent with that requirement, staff has prepared the attached draft Scope of Services for this project (Attachment 1). The scope provides a detailed methodology to be utilized by the MPO's consultant in preparing the 2045 plan update. Federal and state regulations require the consideration of several factors in the plan update process, and these factors are incorporated in the draft Scope of Services. One new area of emphasis is Performance Monitoring (PM), and the scope has been drafted to incorporate achievement of PM targets in the final plan. Staff recommends that the TAC review the draft Scope of Services, make any necessary changes to the scope, and recommend that the MPO approve the Scope of Services.

DESCRIPTION AND CONDITIONS

In 1993, the MPO prepared its first ever Long Range Transportation Plan (LRTP), the 2020 LRTP. That plan became the basis for the MPO's first Transportation Improvement Programs (TIP) and through the TIP process, resulted in a large number of projects that have enabled the County to maintain its level of service and provide mobility for its citizens. Since 1993, the LRTP has been updated at roughly five-year intervals, with the MPO adopting its most recent update, the 2040 LRTP, in December of 2015.

ANALYSIS

Preparing the LRTP is a multiyear effort that will require significant funding expenditures. Currently, funding for this project is programmed in the MPO's current adopted FY 2018/19 – 2019/20 UPWP. As indicated in the MPO's UPWP, the MPO will utilize the services of a consultant to perform the plan update. To that end, MPO staff has prepared the attached draft Scope of Services for this project (Attachment 1).

The draft Scope of Services provides a detailed methodology to be utilized by the consultant in preparing the 2045 plan update. This process involves several activities. These include:

- collecting and analyzing transportation data;
- using the TCRPM model to project deficiencies and transportation needs through 2045;
- using the model to perform alternatives testing and analysis of alternative scenarios;
- assessing the impact of transit improvements, land use policy changes, Autonomous, Connected, Electric, and Shared (ACES) technologies, and other factors on the identified alternatives;
- projecting 2045 transportation revenues and costs;
- preparing goals, objectives, and policies; and
- developing the 2045 needs and cost feasible plans.

Other factors which will be integrated into the long range plan update effort include the MPO's previous transit, bicycle/pedestrian, and congestion management process (CMP) planning efforts. In addition, the development of the LRTP will require extensive coordination with partner agencies such as the Treasure and Space Coast T/MPOs, FDOT, and the Treasure Coast Regional Planning Council (TCRPC).

RECOMMENDATION

Staff recommends that the TAC review the draft Scope of Services, make any necessary changes to the scope, and recommend that the MPO approve the Scope of Services.

ATTACHMENTS

1. Indian River County MPO 2045 Long Range Transportation Plan proposed Scope of Services

SCOPE OF SERVICES

INDIAN RIVER COUNTY MPO LONG RANGE TRANSPORTATION PLAN 2045 UPDATE

BACKGROUND

As a result of the 1990 Census, it was determined that the population of the City of Vero Beach and the surrounding densely populated area exceeded 50,000. Therefore, this area was designated as an urbanized area and the Indian River County MPO was formed by interlocal agreement in 1993. The MPO's first Long Range Transportation Plan (2020 LRTP) was adopted in June 1995. Subsequent updates were adopted at five-year intervals, with the most recent update being the 2040 LRTP update (December, 2015).

The 2045 LRTP update will be a cooperative effort between the Indian River County MPO, FDOT District Four, and the Consultant, with input from the MPO's regional partners (the St. Lucie, Martin, and Space Coast T/MPOs.) The 2045 LRTP Update will be developed consistent with the requirements outlined in the Moving Ahead for Progress in the 21st Century Act (MAP-21) and the Fixing America's Surface Transportation (FAST) Act and requirements stipulated by the Federal Highway Administration (FHWA), the Federal Transit Administration (FTA), and the Florida Department of Transportation (FDOT). The LRTP will be multimodal in nature including highway, transit, freight, and pedestrian and bicycle facilities of both local and regional significance. Finally, the LRTP will incorporate Autonomous, Connected, Electric and Shared (ACES) vehicle planning concepts.

STUDY AREA BOUNDARY

For this scope of services, the study area encompasses the Indian River County MPO's designated metropolitan planning area and areas impacting travel entering the urbanized area. The study area includes the County's five incorporated municipalities (Sebastian, Vero Beach, Fellsmere, Indian River Shores, and Orchid) and the rural and transitioning areas west of I-95.

PURPOSE

The purpose of this study is to develop the Indian River County MPO's adopted 2045 Long Range Transportation Plan by identifying a list of cost feasible transportation improvements for the 2045 horizon year. This effort will make use of previously developed preferred land use scenario and associated future year socio-economic data sets with adjustments by the MPO staff, identifying future transportation deficiencies, preparing a needs plan, projecting financial revenues and expenditures, and developing a 2045 cost feasible plan. Other Consultant tasks associated with this study involve conducting a public participation process; preparing graphic illustrations and GIS maps; revising the MPO's priority project selection methodology; and other tasks. Details of the Indian River County MPO 2045 LRTP Update project tasks are provided below.

TASK 1 – PUBLIC PARTICIPATION

1.1 Public Involvement Plan

The Consultant shall develop a public involvement plan (PIP) for using during the 2045 LRTP Update. The PIP will be consistent with the Indian River MPO's Public Participation Plan and will identify efforts to involve minorities, low income communities, and other groups that may be underrepresented in the transportation planning process. The Consultant will identify the opportunities for use of internet and social media during the 2045 LRTP Update process. The Consultant shall submit the draft PIP for review by MPO staff.

1.2 Public Participation Strategies

The Consultant shall develop specific strategies to execute the PIP that promotes broad dialogue and continuing involvement of the citizens and stakeholders in the LRTP process. The key public participation events are listed below.

- Three (3) workshops will be conducted during the alternatives analysis phase (Task 5.5) and two (2) workshops during the development of the final LRTP (Task 9.2). Workshop locations should be throughout the county and should include locations in communities traditionally underserved by existing transportation systems (Title VI). All workshop locations must comply with ADA accessibility requirements.
- The draft LRTP documents will be made available for public review and comments prior to the adoption of the 2045 LRTP Update.
- A project specific website will be maintained to provide information on the LRTP Update.
- A survey will be conducted during the Transportation Alternatives Development stage to elicit input from the citizens.
- Presentations will be given to the MPO's Governing Board, Technical Advisory Committee (TAC), and Citizens Advisory Committee (CAC) at the completion of (or during) Tasks 5, 8, and 9. These meetings will provide additional opportunities for public participation.
- A total of 10 key person interviews are anticipated during the 2045 LRTP Update. These meetings will be conducted to obtain input from project stakeholders. Elected officials representing individuals/groups traditionally underserved by existing transportation systems and staff from agencies providing transportation services should be among the people interviewed.
- The LRTP development process will be coordinated with the adjacent MPOs.
- Announcements formatted for MPO distribution via Social Media

1.2.1 Project Web Site and Survey

The MPO shall maintain the project specific website established for the 2040 plan. This website will provide an overview of the LRTP process, MPO's roles and responsibilities, maps and presentations, key results of interim tasks, and the draft final plan for public review. The Consultant shall provide the draft documents for publication in the MPO's project specific website. MPO staff shall utilize the website to conduct an online survey during the alternatives analysis phase to obtain the citizens'

input on the needs and priorities. The Consultant shall assist the MPO to conduct the web-based survey and summarize the survey results in a concise manner. The number of visitors to the website and number of online surveys completed will be reported to the MPO. The MPO shall update the web site throughout the development of the 2045 LRTP Update to disseminate current and timely information.

1.3 Regional Coordination Procedures

The Consultant shall coordinate the LRTP activities with adjacent jurisdictions. Specifically, the Consultant shall coordinate with the other MPO's, including the Martin, St. Lucie, and Space Coast T/MPO's to obtain ZDATA, Needs Plans and studies, and share intermediate and end products of Indian River 2045 LRTP Update that are appropriate for review by those entities.

1.4 Meeting Announcement Procedures

The Consultant will coordinate with MPO staff to make use of local media to maximize public awareness of the LRTP update and obtain citizen participation. Techniques to be deployed shall include, but not be limited to, press releases; radio and television advertisements; flyers; and print advertisements.

1.5 Task Documentation

The Consultant shall prepare a LRTP report chapter summarizing the work effort in Task 1; as well as prepare a Technical Support Appendix summarizing the citizens' input. The draft chapter and Technical Appendix will be transmitted to the MPO for review and approval. The Consultant shall prepare the PIP.

TASK 2 – LAND USE AND SOCIOECONOMIC DATA DEVELOPMENT

The MPO plans to utilize the preferred land use scenario developed during the 2040 LRTP Update. Therefore, land use visioning is not included in this scope. As an alternative, the MPO will undertake scenario planning with an emphasis on the effects of varying timeframes of ACES technologies on travel and infrastructure demand.

2.1 Future Year Population Estimates

MPO staff shall review and analyze population projections based on Bureau of Economic and Business Research (BEBR) high, midrange, and low-growth estimates for year 2045. MPO staff shall select the appropriate growth scenario and assign population to the Traffic Analysis Zones (TAZ) per the 2045 preferred land use alternative.

2.2 Socioeconomic Data Development

MPO staff shall develop a socio-economic data set based on the approved population forecasts and the preferred scenario. The ZDATA will be developed based on the Traffic Analysis Zone (TAZ) structure of the TCRPM activity-based planning model by MPO staff. The Consultant will review the socioeconomic data and participate in one conference call. MPO staff shall present the ZDATA to the CAC/ TAC for review and approval.

2.3 Kickoff Meeting

The Consultant shall conduct an LRTP kick-off teleconference with MPO and County Staff. The Consultant shall discuss with staff the proposed PIP, public involvement strategies, socioeconomic data forecast results, an overall project schedule, and any other appropriate technical and policy considerations.

2.4 Task Documentation

MPO staff shall summarize future year population and socio-economic data in a memorandum and provide the memorandum to the Consultant. The Consultant shall prepare a LRTP report chapter summarizing these data. The draft chapter and Technical Appendix will be transmitted to the MPO for review and approval.

TASK 3 - STUDY AREA DATA REVIEW AND ANALYSIS

3.1 Review of Long Range and Comprehensive Plans

MPO staff shall coordinate with technical staff from Indian River County, municipalities, FDOT, and the Treasure Coast Regional Planning Council (TCRPC), and shall also coordinate with MPO advisory committee members, to collect and review all local, regional, and state long range transportation plans and comprehensive plans. The MPO shall review the following:

- Indian River County MPO 2040 Long Range Transportation Plan
- Indian River County Comprehensive Plan
- Indian River County Comprehensive Plan Evaluation and Appraisal Report (EAR)
- City of Vero Beach Comprehensive Plan
- City of Sebastian Comprehensive Plan
- City of Fellsmere Comprehensive Plan
- Town of Indian River Shores Comprehensive Plan
- Town of Orchid Comprehensive Plan
- Treasure Coast Regional Planning Council Strategic Regional Policy Plan
- Martin, St. Lucie, and Brevard County LRTPs
- FDOT Florida 2060 Transportation Plan
- Vero Beach Municipal Airport Master Plan Update

- Sebastian Municipal Airport Master Plan Update
- Treasure Coast Transportation Council (TCTC) 2045 Plan and Freight Plan

Key highlights and potential action items will be summarized by MPO staff and provided for use by the Consultant.

3.2 Review of Transportation Studies

MPO Staff shall review other local and regional transportation studies. Specifically, MPO staff shall review the following studies:

- 2018 Transit Development Plan Major Update
- Comprehensive Plan Transportation Element
- Indian River County Bike/Ped and Greenways Plans
- Truck Traffic Routing Plan
- Congestion Management Process
- Indian River County Transportation Disadvantaged Service Plan
- Wabasso and Gifford Neighborhood Plans
- FDOT and County Grade Crossing Plans
- I-95 Master Plan and TSM&O Plan
- US 1 Corridor Retrofit Study
- Martin, St. Lucie, and Brevard County TDPs
- FDOT Long Range and SIS Plans

Key highlights and potential action items will be summarized by MPO staff and provided for use by the Consultant.

3.3 Review of Federal and State Long Range Transportation Plan Requirements

The CONSULTANT shall review the following federal and state Long Range Transportation Plan guidelines:

- MAP-21 and FAST Act regulations
- FHWA and FTA guidelines for LRTP updates
- FHWA's and FDOT's comments regarding the MPO's 2040 LRTP
- The Florida Metropolitan Planning Organization Advisory Council (MPOAC) Governing Board's financial guidelines for 2045 LRTPs
- FDOT's Revenue Forecast Handbook
- FDOT's Guidance for Incorporating Performance Measures into the LRTP Process
- CUTR's Review of LRTPs and Estimate of Statewide 2040 Metropolitan Area Financial Shortfall
- FDOT's LRTP Citizen-Friendly Best Practices
- FHWA Volpe Center's, Best Planning Practices: Metropolitan Transportation Plans

The Consultant shall develop a checklist to summarize key state and federal guidelines that need to be adhered during the LRTP development process. This checklist will be included in the final LRTP demonstrate the consistency. The results of this task will also be utilized during the development of goals, objectives, and performance measures.

3.4 Other Data Collection and Review

MPO staff will assist the Consultant in obtaining for review as appropriate the following data for the current year (unless otherwise specified):

- Crash data and reports (current five years)
- Traffic counts (current five years)
- FDOT Five Year Work Program
- MPO Transportation Improvement Program
- MPO Priority Projects List
- Environmental surveys
- Transit quality and level of service (per TCQSM guidelines)
- Major freight stakeholders and routes
- Approved 2045 socio-economic data from the Space Coast, Martin, St. Lucie, and Palm Beach T/MPO's
- Relevant GIS shapefiles

3.5 Data Analysis

Using the data and information obtained in Tasks 3.1-3.4, the Consultant shall perform a general analysis of the County's transportation system. This analysis shall identify the major issues, trends, needs, and opportunities associated with the County's transportation system.

3.6 Task Documentation

MPO staff shall document the results of Tasks 3.1 and 3.2 for inclusion in the LRTP report. The Consultant shall prepare a LRTP report chapter summarizing the conclusions from the work effort in Task 3; as well as prepare a Technical Support Appendix addressing the Study Area Data Review and Analysis. The draft chapter and Technical Appendix will be transmitted to the MPO for review and approval.

TASK 4. NEEDS PLAN DEVELOPMENT

4.1 Model Preparation - Existing Plus Committed (E+C) Network

The Consultant and MPO staff will use the latest TCRPM activity-based model being developed by FDOT. That model will be accompanied by a set of Base-Year and Future-Year Socio-Economic data, the latter of which based on future population projections supplied by the Bureau of Economic and Business Research (BEBR). Since the 2045 BEBR estimates have only increased marginally above 2040 estimates; since there have been few major new developments or land use changes since 2015; and since the E+C Network developed for use in the 2040 model is still relevant with no major widening projects completed since 2015, model preparation will be minimal and may consist simply of a quality review of the model network being developed by FDOT to verify the accuracy of network attributes. This E+C network, which shall form the base network for this study, shall be depicted in tabular and map (GIS) format. The E + C network will be coded by the Consultant.

4.2 Prepare Baseline Needs Network – Core Projects of the Adopted 2040 Cost Feasible Plan

The Consultant and MPO staff will review priority projects (defined as Core Projects) identified during the 2040 LRTP Update. After the review, the Consultant shall add the Core Projects as defined in the 2040 Cost Feasible Plan to the E+C network and perform a level of service analysis. The deficiencies identified in this step will form the basis for Needs analysis.

4.3 Task Documentation

Based on these model results, the Consultant shall prepare the 2045 Needs Plan in tabular and map format for inclusion in the LRTP report. The consultant will also prepare sufficient Technical Support in an Appendix addressing the Needs Plan. The summary tables and Technical Appendix will be transmitted to the MPO staff.

TASK 5. TRANSPORTATION ALTERNATIVES DEVELOPMENT

5.1 Develop Preliminary 2045 LRTP Goals

MPO staff shall develop a set of preliminary goals for 2045 LRTP Update. The preliminary goals will guide the subsequent data analysis and will direct the development and evaluation of transportation improvement project alternatives. MPO staff will review the summary report prepared as part of Task 3.1 when developing the preliminary goals.

The preliminary goals shall address the social, economic, and environmental impacts of future transportation investments. The preliminary goals shall be consistent with and address the seven national planning goals specified within Section 1203 of MAP-21 as appropriate. These national planning goals are as follows:

- Safety: To achieve a significant reduction in traffic fatalities and serious injuries on all public roads

- Infrastructure condition: To maintain the highway infrastructure asset system in a state of good repair
- Congestion reduction: To achieve a significant reduction in congestion on the National Highway System
- System reliability: To improve the efficiency of the surface transportation system
- Freight movement and economic vitality: To improve the national freight network, strengthen the ability of rural communities to access national and international trade markets, and support regional economic development
- Environmental sustainability: To enhance the performance of the transportation system while protecting and enhancing the natural environment
- Reduced project delivery delays: To 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

5.2 Develop Model Run Alternatives

Working with the MPO, the Consultant shall develop two alternative model run sets for Year 2045. Recommendations from the Citizens Advisory Committee, the Technical Advisory Committee, the Bicycle and Pedestrian Advisory Committee, and the MPO Board will be reviewed and considered. The Florida Transportation Plan elements for District 4 will be reviewed and the Consultant will also coordinate with adjacent Urban Area Studies (Martin, St. Lucie, and Brevard Counties) to obtain a complete set of inputs on future transportation alternatives.

The first alternative to be investigated will be determined jointly by the Consultant and MPO. Testing will be accomplished with the validated model. The Consultant will review these results with the MPO. Development of the second alternative will be guided by the results of the previous model run.

Potential transportation improvement projects shall be identified to address the following factors:

- Satisfying unmet travel demand documented in the needs network
- Addressing the 2045 LRTP goals

Capital investments and other measures necessary to maintain and operate the total transportation system must be assessed as part of each alternative. These include requirements for operational improvements, resurfacing, restoration and rehabilitation of existing and future major roadways, as well as operations, maintenance, modernization and rehabilitation of existing and future transit facilities. Other measures to make the most efficient use of existing transportation facilities to relieve vehicular congestion and enhance the mobility of people and goods will also be assessed.

5.3 Alternatives Testing

Once a series of transportation model run alternatives has been identified, the Consultant shall coordinate with MPO staff to test the model run alternatives. Transportation improvement project sets shall be tested according to the following criteria:

5.3.1 Transportation Impacts

The Consultant shall address the ability of the alternative model runs to:

- Address travel demand and mobility needs
- Address the community and preliminary 2045 LRTP goals and performance targets

In determining the extent to which each set addresses the 2045 LRTP goals, consideration shall be given to both the number of goals addressed as well as the extent to which each goal is addressed. Model run alternatives testing shall be based on the applicable adopted LOS standards as provided by MPO staff.

The Consultant shall assess the impact of freight movement on the MPO's preferred model run. The Consultant will conduct one meeting with identified key freight stakeholders to obtain input. The Consultant shall make modifications to the preferred model run as necessary to accommodate projected freight activity.

5.3.2 Socioeconomic Impacts

The socioeconomic impacts of transportation policy decisions must be analyzed with special attention given to the benefits and burdens on minority populations, Limited English Proficiency (LEP) persons, and Environmental Justice. Effects on land use and the consistency of transportation plans and programs with the provisions of all applicable short and long term land use and development plans shall be identified. The overall impacts on the human, natural and man-made environment, including housing, employment and community development, shall also be considered. In addition, access to major tourist destinations, national parks, recreation areas, monuments and historic sites shall be evaluated. The Consultant shall utilize the MPO's Community Outreach plan, GIS layers and community profiles to assess potential impacts.

5.3.3 Environmental Impacts

The Consultant shall coordinate with FDOT to identify the need for planning level screening of projects being considered. For the projects that the District's ETDM Coordinator identifies the need for planning level ETDM screening, the Consultant shall develop project related data tables and GIS files to conduct planning level ETDM analyses. Potential impacts identified by the ETAT team may be considered in the selection of final projects and, depending on the severity of the impacts, may eliminate a project from further consideration in the Cost Feasible Plan development process. The input received through the ETDM screening process will be documented in the summary report.

5.3.4 Financial Impacts

The financial impacts of the model run alternatives shall be addressed. This may include construction, operations, and maintenance costs of the transportation improvements.

5.3.5 Summary Report

The Consultant shall then perform model runs on the 2045 Needs network to test the impact of each alternative on the network. The Consultant will also develop a matrix demonstrating system-wide performance under each alternative model run. System-wide performance shall be measured by total congestion, energy efficiency, and other measurable indicators, as well as ability to address goals developed in Task 5.1. Based on this analysis, the Consultant shall identify a preferred model run alternative.

5.4 Model Run Project Set Modifications

During the course of developing model run sets, the MPO will identify otherwise constrained facilities and ask the consultant to make recommendations for Congestion Mitigation alternatives, such as safety, operational, and intersection improvements, for those facilities. Constrained Corridors should also be assessed for their viability as autonomous/connected “smart” corridors.

5.5 Alternatives Workshops

At least three (3) subarea workshops transportation alternatives developed in Tasks 5.1-5.4 will be made available for public review and comment consistent with the public involvement plan. The public workshops will be planned in accordance with federal guidance to address historically underrepresented populations as outlined in Title VI and Environmental Justice directives issued by the US DOT. The Consultant will coordinate with MPO staff to identify workshop venues in order for citizens including minority and disadvantaged populations to provide opportunities for broader participation in the LRTP development process. The Consultant shall present the results of alternatives analysis to achieve consensus on a preferred model run alternative package. The Consultant shall be responsible for preparing meeting displays, handouts, surveys, and presentation aides suitable for public consumption. Based on the comments and feedback received from all meetings, the Consultant shall modify the alternatives accordingly. After MPO staff has determined that sufficient consensus has been achieved on a preferred model run alternative package, the Consultant will present the results of this process and the preferred alternative to the TAC/CAC and the MPO for their review and approval (Task 5.6). The Consultant shall also make available the transportation model run results for public review through the project website.

5.6 MPO Presentations

The Consultant shall present the results of Tasks 4 and 5 to the MPO’s CAC, TAC, and the Governing Board. The MPO will schedule the CAC and TAC meetings to occur on the same day. The Consultant shall revise the draft documents based on input received from the MPO committees.

5.7 Documentation

The Consultant shall prepare a LRTP report chapter summarizing the conclusions from the work effort in Task 5; as well as prepare a Technical Support Appendix addressing the development of the cost feasible plan network alternatives. The draft chapter and Technical Appendix will be transmitted to the MPO staff for review. The report chapter shall summarize the development of the cost feasible plan alternatives and will include the following:

- Identification of potential transportation improvement projects model run packages,
- Identification of methodologies utilized to perform alternatives testing of those projects, and
- Selection of a preferred multimodal transportation improvement projects set model run package.

Finally, this documentation shall summarize the results of the workshops held to discuss the results of the alternatives testing process as well as any modification to the transportation improvement projects set based on feedback received from the meetings.

TASK 6. FINANCIAL RESOURCES ANALYSIS

6.1 Financial Data

The Consultant shall obtain and review the following financial information:

- Existing transportation funding sources, including:
 - historical data;
 - amount by funding source; and
 - availability through 2045
- Alternative and innovative transportation funding sources
- Capital and operating funding sources and amount by source
- MPOAC Statewide Revenue Study

The Consultant shall conduct two (2) key-person meetings to obtain the latest financial information from Indian River County and FDOT.

6.2 Project 2045 Revenues

Using the financial information obtained in Task 6.1 and the revenue forecasts provided by the MPO, County, FDOT, and other appropriate agencies, the Consultant shall project the total amount of revenue available for the years 2019-2045 to implement the 2045 cost feasible plan. Revenue estimates shall specify capital and operating/maintenance funding by funding source. Revenue estimates shall be prepared for each year between 2018-2020 and for the following multi year periods: 2021-2025; 2026-2035; and 2036-2045. Both the total and interim year revenue projections shall indicate the amount available for each funding source during the specified time period. Finally, the revenue projections shall be expressed in current year dollars and also in year of

collection dollars so that the Consultant may develop year of expenditure estimates for all cost feasible plan projects.

6.3 Estimate Costs of Proposed Improvements

The Consultant shall coordinate with MPO and FDOT staff to estimate the total and per project cost of implementing the preferred projects set identified in Task 5 by 2045. For roadway projects, costs shall be estimated for each of the following project programming phases:

- Project Development and Environmental (PD&E)
- Preliminary Engineering (PE)
- Right of Way Acquisition (ROW)
- Construction (CST)
- Construction Engineering and Inspection (CEI)
- Maintenance/Operation (O&M) - from project completion to 2045 horizon year
- Life Cycle Costs (LCC)

Project costs for the PD&E, PE, CEI, O&M, and LCC phases shall be estimated based on FDOT's and Indian River County's standard formulas for calculating these project phases. For ROW cost estimates, the Consultant shall coordinate with the Indian River County Public Works Department to estimate land acquisition costs by square foot in the locations of proposed roadway projects. For project construction cost estimates, the Consultant shall coordinate with FDOT for recent project unit costs and/or use FDOT's recommended transportation costing guidance to estimate construction costs by roadway functional classification. Both ROW and construction cost estimates shall be modified based on unique project characteristics, including project location, the existence of wetlands, listed species habitat, need for bridges, or other unique circumstances identified by the MPO staff. The cost estimates shall indicate the total cost of each roadway improvement project and shall be expressed in current year dollars. Upon establishing priorities, improvement costs will be converted to year of expenditure costs.

The Consultant shall also estimate the per unit construction cost of each type of improvement contained within the list of prioritized roadway improvement projects which will incorporate many or all of the following:

- Two lane new construction
- Four lane new construction - (urban and rural)
- Two lane to four lane - (urban and rural)
- Four lane to six lane -(urban and rural)
- Interchanges
- Sidewalks
- Bus stops
- ITS/ATMS deployments

The Consultant shall coordinate with MPO and FDOT staff regarding the data and assumptions used to prepare the project cost and roadway type cost estimates.

The Consultant shall also estimate the implementation costs of any transit, bicycle/pedestrian, ITS, CMP, ACES, or other improvements projects that are incorporated in the preferred projects set. Cost estimates shall be developed in accordance with FDOT and MPO approved methodologies appropriate for each project type (transit improvements, sidewalks, etc.)

6.4 Estimate Maintenance, Operating, and Life Cycle Costs of E+C Network

Recognizing that a transportation plan must provide for the maintenance of the existing transportation network in addition to providing for a financially feasible set of transportation improvement projects to meet future needs, the Consultant shall coordinate with MPO and FDOT staff to project the maintenance, operating, and life cycle costs in current year dollars through the 2045 horizon year of the E+C network. These estimates shall be based on FDOT, MPO, and County methodologies for calculating such costs. Such costs relate to resurfacing, roadway ROW maintenance and upkeep, bridge improvements, safety improvements, signal optimization, intersection improvements, etc. These costs will be converted to year of expenditure during Task 6.5.

6.5 Compare Estimated Costs and Revenues

The Consultant shall convert all improvement costs to the year of expenditure (future dollars). The Consultant shall compare the implementation cost estimates developed in Task 6.2 with the revenue estimate developed in Task 6.3 for the 2045 horizon year and for each five year or ten year interim period. The Consultant shall utilize this comparison to analyze the financial feasibility of implementing the prioritized transportation improvement projects contained in the preferred model run alternative. Based on this analysis, the Consultant shall coordinate with MPO and FDOT staff to revise the prioritized list of transportation improvement projects as needed in order to develop a financially constrained cost feasible plan. Revisions may include adding and/or deleting transportation improvement projects or adjusting the prioritization ranking of the projects. The Consultant shall then develop a revised prioritized list of transportation improvement projects.

6.6 Task Documentation

The Consultant shall prepare a LRTP report chapter summarizing the work effort in Task 6; as well as prepare a Technical Support Appendix addressing the financial resources and cost assumptions. The draft chapter and Technical Appendix will be transmitted to the MPO staff. The MPO will present the financial analysis the TAC, CAC, and MPO Governing Board for review and approval.

TASK 7 - GOALS, OBJECTIVES, AND POLICIES

7.1 Finalize 2045 LRTP Goals

MPO staff shall evaluate the 2045 preliminary LRTP goals developed in Task 5. In coordination with the Consultant, the MPO staff shall make any revisions to the goals and objectives as appropriate. Revisions may include rewording, combining, deleting, or adding goals.

7.2 Develop Objectives and Policies

Objectives set specific, measurable milestones that, when completed, mark progress toward reaching long term community goals. Policies articulate the specific actions that will be taken to meet the identified objectives. As such, the 2045 LRTP objectives and policies must be system and performance oriented and are a critical part of the 2045 cost feasible plan. In developing 2045 LRTP objectives and policies, MPO staff shall adhere to the following definitions and standards:

- Objective - A specific, time-oriented, measurable, intermediate end that is achievable and marks progress toward a goal.
- Policy – The course of action or way in which programs and activities are conducted to achieve an identified goal or objective.

Based on the revised goals prepared in Task 7.1 and all project analysis and activities to date, the MPO staff shall develop a draft set of objectives and policies corresponding to each goal. As with the goals, the objectives and policies shall address the MAP-21 national planning goals identified in Task 5.1. Finally, the objectives and policies shall focus on quantitative and qualitative actions necessary to implement the Cost Feasible Plan and satisfy each of the goals. The Consultant shall coordinate closely with MPO staff in developing the 2045 LRTP objectives and policies.

7.3 Develop Transportation Systems Criteria (Performance Measures)

The Consultant shall coordinate with MPO staff to review the project prioritization criteria utilized for determining which projects should be included in the 2045 Cost Feasible Plan. These criteria shall be carefully evaluated with respect to meeting updated MPO goals; Fast Act/Map-21 Planning Factors; and State and MPO performance targets for Safety (especially fatalities, serious injuries, and non-motorized crashes), System Performance, Bridge, Pavement, and Freight Planning (contained in 23 CFR Part 490 and Federal Rulemaking). Project prioritization criteria should be linked to achievement of MPO performance targets and may also include:

- Ability to address LRTP goals and objectives
- Benefit/Cost (B/C) analysis
- Existing and future volume to capacity (V/C) ratio
- Emergency evacuation
- Integration of transportation system and future development
- Intermodal connectivity
- Provision of grid network facilities (system continuity)

- Freight and goods movement
- Bicycle and pedestrian network improvements
- Consistency with the Strategic Highway Safety Plan
- Ownership and functional classification

These criteria shall focus on implementing and monitoring the alternative transportation system projects included as part of the 2045 cost-feasible network.

7.4 Task Documentation

The MPO staff shall document the development of the 2045 LRTP goals, objectives, policies, and criteria, the public participation component utilized to obtain comments, and feedback regarding the GOPs. The Consultant will format the draft document and technical appendix for inclusion in the LRTP report.

TASK 8 - 2045 COST FEASIBLE PLAN DEVELOPMENT

8.1 Develop 2045 Cost Feasible Network

Using the revised transportation improvement projects set contained in the preferred model run alternative and priority criteria developed in Task 7.4, the Consultant shall develop the 2045 cost feasible network in tabular and map form. The cost feasible network shall include the identified roadway, transit, bicycle/pedestrian, CMP, and ITS improvement projects necessary to meet projected travel demand to the 2045 horizon year. For each improvement project, the cost feasible network shall identify the following (to the extent feasible) in tabular and map (GIS) form:

- Segment limits
- Segment distance (in miles)
- Current roadway laneage
- Base year V/C ratio, volume, and LOS
- Project description and scope (roadway improvement, shoulders, bicycle lanes, etc.)
- Horizon year roadway laneage
- Horizon year V/C ratio, volume, and LOS
- Project cost (by five year increment, project phase, and funding source)
- Existing ROW
- Ultimate (needed) ROW
- Jurisdiction/maintenance responsibility

In documenting the 2045 cost feasible network in the 2045 LRTP, the Consultant shall also prepare specific sections discussing needed roadway improvements, transit improvements, bicycle/pedestrian improvements, and CMP and ITS improvements. The purpose of these mode-specific sections is to incorporate as needed the MPO's existing 2045 transit and bicycle/pedestrian plans and current TDP as well as the MPO's CMP plan and ITS efforts.

8.2 Develop TCRPM Interim Data Sets (if required)

Based on the 2045 Preferred Land Use Alternative Scenario, MPO Staff shall prepare interim year data sets for 2030 and 2040 in a format compatible with the TCRPM. The Consultant shall provide limited technical assistance to staff in the development of this data.

8.3 Conduct Interim Year Model Run Analyses (if required)

Based on interim year ZDATA sets developed in Task 8.2, and based on the E+C network developed in Task 4.1, the Consultant shall perform interim year model run analysis for 2025 and 2035 to identify level of service conditions at these interim years and for use in prioritizing projects with respect to timing and need.

8.4 Develop Interim Year Improvement Sets (if required)

Based on the analysis conducted in earlier tasks, the Consultant shall prioritize the projects comprising the 2045 cost feasible network into estimated year of construction and in year of expenditure dollars.

Project prioritization shall be based on at least the following factors:

- Project need
- Timeframe required to program, design, acquire ROW for, and construct the project
- Funding availability

The Consultant shall review the year of expenditure costs for prioritized projects and determine the optimal schedule of projects with regards to inflation. The Consultant shall coordinate with MPO staff to prepare and refine the interim year improvement sets.

8.5 MPO Presentations

The Consultant shall present the draft Cost Feasible Plan to the MPO's CAC/TAC and the Governing Board. The Consultant shall revise the Cost Feasible Plan based on input received from the MPO committees.

8.6 Task Documentation - 2045 Cost Feasible Plan

The Consultant shall prepare a LRTP report chapter summarizing the conclusions from the work effort in Task 9, as well as prepare a Technical Support Appendix addressing the Cost Feasible Plan and interim year improvement sets. The draft chapter and Technical Appendix will be transmitted to the MPO staff for review and approval. The report chapter shall summarize the development of and improvements identified for the Cost Feasible Plan and shall also include recommended revisions to the MPO's priority project list development based on a review of federal and state requirements and of the methodologies utilized by other MPOs in Florida.

The report shall identify whether projects in the Cost Feasible Plan are consistent with local government comprehensive plans. If any projects in the Cost Feasible Plan are inconsistent, the report shall specify any comprehensive plan amendments that are necessary to maintain consistency with the LRTP. The report shall also identify how the projects help achieve adopted Performance Measurement Targets consistent with 23 CFR Part 490.

The Consultant shall coordinate with MPO staff to present this documentation to the TAC/CAC and the MPO Board for review and approval. This documentation shall be revised as appropriate based on comments received from these meetings.

TASK 9 - PREPARE 2045 LONG RANGE TRANSPORTATION PLAN

9.1 Prepare Draft 2045 Long Range Transportation Plan

The significant components of each draft chapter and technical appendix material will be incorporated into a draft 2045 LRTP Update for review by MPO staff. The draft plan shall incorporate as appropriate previous comments received from MPO staff, the MPO and its advisory committees, and public input.

9.2 Public Meetings

Following receipt of comments by MPO staff and the presentation of the draft LRTP to the MPO committees (Task 9.3), the Consultant shall coordinate with the MPO to make available the necessary documents for review and comment by the public. Both hard and electronic copies of the draft LRTP will be made available for public review.

The Consultant shall conduct two (2) public information meetings for the purpose of sharing the results of this study with the public. Reactions and comments received from the public shall be responded to by the Consultant and revisions will be made to the draft final report for submittal to the MPO. The public participation plans prepared in Task 1 shall be utilized in conducting the meeting. The Consultant shall prepare meeting displays and presentation materials.

9.3 MPO Presentations

The Consultant shall present the draft 2045 LRTP to the MPO's CAC/TAC and the Governing Board for review. Upon the approval of the draft LRTP, the LRTP documents will be made available for public review for 30 days (Task 9.2). At the completion of the public review period and public workshops, the Consultant will present the final 2045 LRTP to the MPO's CAC, TAC, and the Governing Board for formal adoption. The MPO will schedule the CAC and TAC meetings to occur on the same day.

9.4 Prepare Final 2045 Long Range Transportation Plan

The Consultant shall prepare the final 2045 LRTP incorporating comments received during the public meeting and submit the final LRTP report for MPO, FDOT, and FHWA/FTA review and approval. The final plan is expected to include the following chapters:

- Introduction
- Goals, Objectives, Policies, and Performance Measures
- Public Involvement Plan
- Socio-Economic Data Development
- Study Area Data Review
- Needs Plan
- Financial Resources Analysis
- Cost Feasible Plan
- Performance Evaluation
- Congestion Management Process Summary
- Regional Coordination and Consistency

The LRTP will include a discussion on environmental mitigation strategies that has been identified through the ETDM review and additional consultation with local resource agency staff.

The Consultant shall prepare an executive summary highlighting the key results and decisions of the 2045 LRTP Update. The executive summary shall be in newsletter format with full color graphics.

9.5 Data and File Management

Development of the 2045 LRTP will incorporate the utilization of several electronic software programs and associated data. Work products submitted shall include not just a hard copy report, but also accompanying software files as appropriate. As part of the plan development, the Consultant shall include the following specific files:

- GIS maps (and linked database files) created for this project;
- TCRPM and land use model output files for the following model runs:
 - 2015 validated base year network;
 - 2023/24 E+C network;
 - 2045 cost feasible network;
 - Interim year (2030, 2035, and 2040) networks;
 - Other files/data utilized for this project (as feasible).

At the conclusion of the project, the Consultant shall provide the database and all files utilized throughout this project to the MPO in DVD format.

9.6 Prepare Public Information Materials

As discussed in Task 1, public participation does not cease with the conclusion of the project. It is incumbent upon MPO staff to continuously disseminate information regarding the LRTP and to periodically update citizens, elected officials, interest groups, and other entities regarding the development, importance, and utilization of the MPO's LRTP.

Consistent with the public outreach materials defined in Task 1, the Consultant shall develop an executive summary and other public information materials explaining:

- The need for revising the MPO's LRTP;
- The methodology used in the 2045 LRTP update (including public participation);
- Implementation procedures; and
- Contact information and public participation procedures.

Public information materials may include informative brochures that include maps, stand-alone maps, html Internet files, or other materials. All materials developed shall be in a format (hard copy and/or electronic) suitable for reproduction by MPO staff.

STUDY REQUIREMENTS AND PROVISIONS OF WORK

A. Project Schedule

In accordance with FDOT regulations, the MPO's LRTP shall be completed, approved by the MPO, and delivered to FDOT's District Four offices by December 15, 2020. Therefore, the project schedule shall not exceed this timeframe. Project work shall commence with the MPO's issuance of the Notice to Proceed for this project. Within two (2) weeks of the MPO's issuance of the Notice to Proceed, the Consultant shall provide a schedule of calendar deadlines for deliverables accompanied by an anticipated payout curve. The Consultant shall periodically update the schedule to reflect the changes to the schedule and milestones.

B. Meetings and Presentations

The Consultant will attend 19 meetings in conjunction with this study, including meetings with the MPO, its advisory committees, participation in workshops with the general public, stakeholders, and other meetings as agreed upon by the MPO and the Consultant. The MPO shall schedule the TAC and CAC meetings to occur on the same day when the Consultant presentations are scheduled. For all meetings, the Consultant shall prepare graphic displays, handouts, and any other appropriate presentation aids as deemed necessary by the MPO. A summary of meetings/presentations included in this scope is provided below.

- 6 presentations to the MPO's CAC/TAC, and Board in Tasks 5, 8, and 9
- Five (5) public workshops in Tasks 5 and 9
- 10 key person interviews to obtain input from elected officials, local agency staff, business leaders, and other stakeholders

Any additional meetings requested by the MPO will be considered additional services and will entitle the Consultant additional compensation.

Further, the Consultant will participate in bi-weekly conference calls with MPO staff to discuss project status, review analysis, etc. A total of 36 bi-weekly conference calls are expected to occur.

C. Quality Control

The Consultant shall be responsible for making use of quality control/quality assurance (QA/QC) procedures to enable work products to conform to MPO and FDOT standards and criteria. This shall be accomplished through an internal quality control process performed by the Consultant and supported by the MPO staff.

D. Correspondence

Copies of all written correspondence between the Consultant and any party not a part of the consultant team pertaining specifically to this study shall be provided to the MPO for its records within one (1) week of the receipt of said correspondence.

E. Progress Reporting and Invoicing

The Consultant shall invoice the MPO on a monthly basis and provide written progress reports describing the work performed on each task to date. The invoice package shall consist of an invoice, progress report, and project schedule. All documents will be originally signed. Judgment on whether work of sufficient quality and quantity has been accomplished will be made by the MPO's Project Manager using a comparison of reported percent work completed against actual work accomplished.

F. Technical Standards

As indicated in the appropriate tasks and subtasks, the Consultant shall develop numerous maps as part of this project. In developing data layers to be used in creating GIS maps for this project, the Consultant shall utilize the GIS resources of Indian River County, FDOT, the Florida Department of Environmental Protection (FDEP), FHWA, and other agencies as appropriate. Maps to be prepared include base maps, network maps, transportation improvement maps, and others. All maps shall be TAZ and Census geography compatible. All maps developed as part of the 2045 LRTP update project will utilize ArcGIS 10 format and be compatible with the MPO's GIS database. Upon conclusion of the project, the Consultant shall furnish all electronic map files to the MPO and FDOT.

G. Submittals

The Consultant shall provide 1 hard copy and 1 electronic copy of the required documents as listed below.

Draft Report Chapters and Technical Appendices
Draft 2045 Long Range Transportation Plan
Final 2045 Long Range Transportation Plan
Final 2045 Long Range Transportation Plan – Executive Summary
Public Information Materials

All documents, graphics, charts, and supporting material generated during the course of this project will be furnished to the MPO in electronic format at the conclusion of the project.

The MPO and the Consultant agree to utilize electronic mail for the timely, cost-effective submission of interim work products and data files. The MPO and the Consultant will utilize an Internet email account as appropriate to reduce costs and time for work product submissions and reviews.

F:\Community Development\Users\MPO\LRTP\2045\IRC 2045 LRTP Scope DRAFT FOR TAC REVIEW.docx

INDIAN RIVER COUNTY, FLORIDA

M E M O R A N D U M

TO: Members of the Indian River County MPO Technical Advisory Committee (TAC)

THROUGH: Phillip J. Matson, AICP
MPO Staff Director

FROM: Jim Mann
MPO Senior Planner

DATE: February 13, 2019

SUBJECT: **FDOT Presentation on I-95 Master Plan**

It is requested that the information presented herein be given formal consideration by the Indian River County MPO Technical Advisory Committee at its meeting of February 22, 2019.

DESCRIPTION AND CONDITIONS

FDOT is conducting a Master Plan study for I-95 from the Palm Beach/Martin County line to the Indian River/Brevard County line, a distance of approximately 71 miles. Although FDOT recently completed the widening of I-95 in Indian River County, it is FDOT's policy to continuously review and identify short- and long-term capacity and operational improvements for the development of the Strategic Intermodal System (SIS) and periodically assess the attainment of overall regional mobility goals.

On February 22, 2019, staff from the Florida Department of Transportation will provide an update on the status of the project.

RECOMMENDATION

This is an informational item; no action is needed.

INDIAN RIVER COUNTY, FLORIDA

M E M O R A N D U M

TO: Members of the Indian River County MPO – Technical Advisory Committee (TAC)

THROUGH: Stan Boling, AICP
Community Development Director

Phillip J. Matson, AICP
MPO Staff Director

FROM: Brian Freeman, AICP
Senior Transportation Planner

DATE: February 13, 2019

SUBJECT: FDOT Presentation on the Transportation Systems Management and Operations (TSM&O) Master Plan

It is requested that the information presented herein be given formal consideration by the Metropolitan Planning Organization TAC at its meeting of February 22, 2019.

DESCRIPTION AND CONDITIONS

Transportation System Management and Operations (TSM&O) consists of the application of technology-based systems to improve the performance of the transportation network by restoring capacity that has been lost to congestion, incidents, construction, weather, or traffic control delay. Examples of TSM&O that have been used by FDOT District 4 include Active Arterial Management, Express Lanes, Traffic Incident Management, and Ramp Signaling.

At this time, FDOT District 4 is developing a TSM&O Master Plan for the Treasure Coast region. At the February 22nd TAC meeting, FDOT will make a presentation on the TSM&O Master Plan.

RECOMMENDATION

This is an informational item; no action is needed.

INDIAN RIVER COUNTY, FLORIDA

MEMORANDUM

TO: Members of the Indian River County MPO Technical Advisory Committee (TAC)

THROUGH: Stan Boling, AICP
Community Development Director

FROM: Phillip J. Matson, AICP
MPO Staff Director

DATE: February 13, 2019

SUBJECT: **Status Report of MPO Advisory Committees**

It is requested that the information presented herein be given formal consideration by the Technical Advisory Committee at its meeting of February 22, 2019.

CAC MEETING

The CAC met on February 5, 2019 and reviewed the MPO Safety Performance Targets and recommended that the MPO approve the Safety Performance Targets.

MPO MEETING

The MPO met on February 13, 2019. At that meeting, the MPO reviewed the MPO Safety Performance Targets and approved the Safety Performance Targets.

UPCOMING MEETINGS

The MPO and its advisory committees will next meet as follows:

CAC Meeting: March 5, 2019 – 2:00 pm
MPO Meeting: March 13, 2019– 10:00 am
TAC Meeting: April 26, 2019 – 10:00 am
BAC Meeting: April 23, 2019 – 2:00 pm