

RFQ NO. 18-1

REQUEST FOR QUALIFICATIONS

FOR THE

GAINESVILLE URBANIZED AREA TRANSPORTATION STUDY

YEAR 2045 LONG-RANGE TRANSPORTATION PLAN UPDATE

Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area

April 23, 2018

TABLE OF CONTENTS

	PAGE NUMBER
SECTION I.....	1
A. LEGAL NOTICE.....	1
B. REQUEST FOR QUALIFICATIONS- SCHEDULE.....	3
C. GENERAL INFORMATION.....	5
D. PURPOSE.....	8
E. DEFINITIONS.....	9
F. SCOPE OF WORK.....	10
G. PROJECT OVERVIEW.....	11
H. SELECTION PROCESS.....	12
I. APPEALS PROCEDURE.....	15
SECTION II ..	17
LETTER OF INTEREST AND STATEMENT OF QUALIFICATIONS.....	17
SECTION III..	19
WRITTEN PROPOSAL AND ORAL PRESENTATION.....	19
SECTION IV ..	21
EVALUATION CRITERIA/PROPOSAL RATING SHEET.....	21
EXHIBIT A SCOPE OF SERVICES.....	A-1
INTRODUCTION.....	A-7
FEDERAL AND STATE REQUIREMENTS.....	A-7
TECHNICAL TASKS.....	A-8
TECHNICAL REPORTS.....	A-8
TASK 1 - PUBLIC INVOLVEMENT.....	A-9
1.1 PUBLIC PARTICIPATION PROCESS AND DOCUMENTATION.....	A-9
1.2 PUBLIC INVOLVEMENT STRATEGY IMPLEMENTATION.....	A-11
1.3 TECHNICAL REPORT 1.....	A-12
TASK 2 - DATA COLLECTION, MAPPING AND DATA DEVELOPMENT.....	A-13
2.1 DATA COLLECTION.....	A-13
2.2 MAPPING.....	A-14
2.3 DATA DEVELOPMENT.....	A-15
2.4 DESIGNATION OF SCREENLINES.....	A-17
2.5 TRAFFIC COUNT DATA.....	A-17
2.6 HIGHWAY AND TRANSIT NETWORKS.....	A-17
2.7 TRANSIT SERVICE DATA.....	A-18
2.8 DATA PROJECTIONS.....	A-18

2.9 FINANCIAL RESOURCES	A-19
2.10 TECHNICAL REPORT 2.....	A-20
TASK 3 - DATA REVIEW AND VERIFICATION.....	A-21
3.1 REVIEW ZONAL DATA (ZDATA) INPUTS	A-21
3.2 REVIEW 2010 HIGHWAY AND TRANSIT NETWORK	A-21
3.3 REVIEW 2010 TRAFFIC COUNT AND 2010 TRANSIT RIDERSHIP DATA.....	A-22
3.4 REVIEW TRIP GENERATION RATE	A-22
3.5 REVIEW TRIP LENGTH DISTRIBUTION	A-22
3.6 REVIEW AUTO OCCUPANCY RATES.....	A-22
3.7 REVIEW TRANSIT PARAMETERS.....	A-23
3.8 TECHNICAL REPORT 3.....	A-23
TASK 4 - MODEL UPDATE AND VALIDATION	A-24
4.1 VALIDATE EXTERNAL TRIPS	A-24
4.3 VALIDATE THE TRANSIT PATH BUILDING MODEL.....	A-25
4.4 VALIDATE THE TRIP DISTRIBUTION MODEL.....	A-26
4.5 VALIDATE THE MODE CHOICE MODEL.....	A-26
4.6 VALIDATE THE TRANSIT ASSIGNMENT MODEL.....	A-27
4.7 VALIDATE THE HIGHWAY ASSIGNMENT MODEL	A-27
4.8 FINAL MODEL VALIDATION.....	A-28
4.9 GAINESVILLE URBANIZED AREA TRANSPORTATION MODEL TRANSIT PROCEDURE TECHNICAL MEMORANDUM	A-28
4.10 TECHNICAL REPORT 4.....	A-29
TASK 5 - YEAR 2045 TRANSPORTATION NEEDS PLAN AND COST FEASIBLE PLAN	A-30
5.1 NETWORK CODING, EDITING AND DEBUGGING	A-31
5.2 DEVELOPMENT OF THE EXISTING PLUS COMMITTED NETWORK.....	A-31
5.3 DEVELOPMENT OF THE YEAR 2045 LONG-RANGE TRANSPORTATION NEEDS PLAN	A-31
5.4 TECHNICAL REPORT 6.....	A-31
TASK 6 - YEAR 2045 LONG-RANGE TRANSPORTATION PRELIMINARY AND CONSTRAINED NEEDS PLAN	A-32
6.1 DEVELOPMENT OF THE YEAR 2045 LONG-RANGE TRANSPORTATION PRELIMINARY AND CONSTRAINED NEEDS PLAN	A-32
6.2 RANKING OF PROJECTS AND PROGRAMS IN THE YEAR 2045 LONG-RANGE TRANSPORTATION NEEDS PLAN.....	A-34
6.3 INCORPORATING SAFETY INTO LONG-RANGE TRANSPORTATION PLANNING .	A-35
6.4 TECHNICAL REPORT 6.....	A-35
TASK 7 - DEVELOPMENT OF THE YEAR 2045 LONG-RANGE TRANSPORTATION COST FEASIBLE PLAN	A-36

7.1	DEVELOPMENT OF THE YEAR 2045 LONG-RANGE TRANSPORTATION COST FEASIBLE PLAN	A-36
7.2	APPROVAL OF THE YEAR 2045 LONG-RANGE TRANSPORTATION COST FEASIBLE PLAN	A-41
7.3	TECHNICAL REPORT 7.....	A-42
	PROJECT TIME LINE.....	A-42
	REQUIRED DOCUMENTS	A-42
	TECHNICAL REPORTS AND MEMORANDUMS	A-43
	FINAL REPORT	A-43
	SUMMARY REPORT.....	A-43
	SUMMARY POSTER.....	A-44
EXHIBIT B	REQUIRED FORMS.....	B-1
EXHIBIT C	FEDERAL HIGHWAY ADMINISTRATION LONG-RANGE TRANSPORTATION PLAN GUIDANCE	C-1
EXHIBIT D	FLORIDA DEPARTMENT OF TRANSPORTATION METROPOLITAN PLANNING ORGANIZATION PROGRAM HANDBOOK LONG-RANGE TRANSPORTATION PLAN CHECKLIST.....	D-1

THIS PAGE LEFT BLANK INTENTIONALLY

SECTION I

A. LEGAL NOTICE REQUEST FOR LETTERS OF INTEREST AND STATEMENTS OF QUALIFICATIONS

The Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area desires that consultants qualified pursuant to law and regulations submit a Letter of Interest and Statement of Qualifications for professional services on the following project in Alachua County.

PROJECT NAME: Gainesville Urbanized Area Year 2045 Long-Range Transportation Plan Update.

DESCRIPTION: Assist in this project by accomplishing the following tasks:

Task 1- Public Involvement;

Task 2- Data Collection, Mapping and Data Development;

Task 3- Data Review and Verification;

Task 4- Model Update and Validation;

Task 5- Year 2045 Transportation Needs Plan and Cost Feasible Plan; and

Task 6- Required Documents.

QUALIFICATION REQUIREMENTS: Consultant must submit project experience demonstrating thorough knowledge of land use, environmental and transportation planning procedures and methods.

RESPONSE EVALUATION: All respondents will be evaluated in accordance with Section 287.055(4), Florida Statutes, and must be determined to be qualified to do business in Florida and qualified to perform the advertised work requirements.

LETTER OF INTEREST AND STATEMENT OF QUALIFICATIONS: Firms desiring consideration for this project must submit three (3) copies of their letter of interest and statement of qualifications to the requesting unit listed below. One of these copies must be a clean, single-side original that can be used to make additional copies.

The letter of interest and statement of qualifications must demonstrate the expertise of the potential consultant, including its subconsultants, if any, to assist in the development of a multimodal (automotive, bicycle, pedestrian and transit) long-range transportation plan. Proposers shall provide a list of all communities that they have provided long-range transportation plan update consulting services. Proposers shall also demonstrate their experience in working to enhance transit systems and in growing mid-sized cities.

The letter of interest and statement of qualifications must, as a minimum, include the following information:

1. Name, address, contact person and phone number;
2. Listing of key staff and resumes;

3. Listing of any subconsultants anticipated to be used on this project;
4. An indication of the firm's potential (available staff resources) for additional work in the next 30 months;
5. Experience on similar type projects, including location, date completed, contact (reference) name and telephone number; and
6. Proof of professional liability insurance or letter of credit in accordance with Rule 14-75, Florida Administrative Code.

LETTER OF INTEREST AND STATEMENT OF QUALIFICATION DEADLINE: May 29, 2018 at 5:00 p.m. Eastern Daylight Savings Time. Late letters will be returned unopened with the notation, "This letter of interest and statement of qualifications was received after the delivery time designated for receipt and opening in the legal notice."

REQUESTING RESPONSE ADDRESS: Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area, ATTENTION: Scott R. Koons, AICP, 2009 NW 67th Place, Gainesville, FL 32653-1603.

Faxed and e-mailed responses will not be accepted.

SHORTLIST SELECTION PROCESS: From the letters of interest and statements of qualifications received, the Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area's Technical Review Committee will shortlist a minimum of three (3) firms. The shortlist selection date is June 6, 2018.

NOTE: After completion of the shortlist process, at least three (3) firms will be requested to submit written proposals and make oral presentations. Consultant presentations will be made on August 8, 2018.

ESTIMATED PROJECT BUDGET FOR METROPOLITAN TRANSPORTATION PLANNING ORGANIZATION FOR THE GAINESVILLE URBANIZED AREA TASKS: \$200,000.

The Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area reserves the right to accept or reject any and all responses.

MINORITY BUSINESS ENTERPRISE AND DISADVANTAGED BUSINESS ENTERPRISE

Minority business enterprises and disadvantaged business enterprises are encouraged to apply.

B. REQUEST FOR QUALIFICATIONS- SCHEDULE

Letters of interest and statements of qualifications are due **May 29, 2018 at 5:00 p.m., Eastern Daylight Savings Time**, to the Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area, 2009 NW 67th Place, Gainesville, FL.

In order to review the requirements of this Request for Qualifications and provide answers to questions from short-listed firms, a scope of services meeting will be held **June 20, 2018 at 10:00 a.m., Eastern Daylight Savings Time, in the North Central Florida Regional Planning Council Charles F. Justice Conference Room, 2009 NW 67th Place, Gainesville, FL. Attendance at this pre-proposal conference is mandatory.** Inquiries about this Request for Qualifications must be made in person at the scope of services meeting. Firms represented will have an opportunity to clarify any information contained in the request for qualifications at the scope of services meeting. No statements made during the meeting will be considered binding changes to this solicitation unless they are subsequently issued as written addenda to this solicitation.

For short-listed firms, written proposals are due **July 25, 2018 at 5:00 p.m., Eastern Daylight Savings Time**, to the Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area, 2009 NW 67th Place, Gainesville, Florida.

Short-listed firm presentations will be made on **August 8, 2018 at 10:00 a.m., Eastern Daylight Savings Time**, in the North Central Florida Regional Planning Council Charles F. Justice Conference Room, 2009 NW 67th Place, Gainesville, FL.

The following is the anticipated schedule for selection of the firm to prepare the Gainesville Urbanized Area Year 2045 Long-Range Transportation Plan Update. If there are changes to the meeting dates, each firm that submits a Letter of Interest and Statement of Qualifications will be notified.

Request for Qualifications Advertised	April 27, 2018 at 5:00 p.m. Eastern Standard Time
Letters of Interest and Statements of Qualifications due	May 29, 2018 at 5:00 p.m. Eastern Daylight Savings Time
Technical Review Committee Evaluates Letters of Interest and Statements of Qualifications and the Project Manager Identifies At Least Three Firms with the Highest Scores To Make Oral Presentations to the Technical Review Committee	June 6, 2018 at 10:00 a.m.
Scope of Services Meeting	June 20, 2018 at 10:00 a.m. Eastern Daylight Savings Time
Written Proposals Due	July 25, 2018 at 5:00 p.m. Eastern Daylight Savings Time
Consultant Oral Presentations to Technical Review Committee and Technical Review Committee Ranks Three Firms in Priority Order	August 8, 2018 at 10:00 a.m. Eastern Daylight Savings Time
Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area Meeting- Approves Consultant Contract	August 27, 2018 at 3:00 p.m. Eastern Daylight Savings Time
Consultant Begins Work	October 1, 2018

C. GENERAL INFORMATION

1. The Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area requires professional services for the Gainesville Urbanized Area Year 2045 Long-Range Transportation Plan Update. Although the Gainesville Urbanized Area Transportation Study model is Alachua Countywide, this multimodal plan update will cover the Gainesville Metropolitan Area, including the provision and integration of regional transit service, roadway mobility and bicycle and pedestrian facility connectivity.
2. The project, which shall be awarded to the selected consulting firm, is to assist the Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area in updating its adopted Year 2040 Long-Range Transportation Plan to the Year 2045 by accomplishing the following tasks:

Task 1- Public Involvement;

Task 2- Data Collection, Mapping and Data Development;

Task 3- Data Review and Verification

Task 4- Model Update and Validation;

Task 4- Goals, Objectives and Evaluation Criteria;

Task 5- Year 2045 Transportation Needs Plan and Cost Feasible Plan; and

Task 6- Required Documents.

3. Consultant services will begin October 1, 2018 (upon written notice from the Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area's Executive Director) and will be completed by March 31, 2021.
4. The Project Manager for EXHIBIT A- Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area Scope of Services is:

Mr. Scott R. Koons, AICP, Executive Director
Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area
2009 N.W. 67th Place
Gainesville, FL 32653-1603

352.955.2200, Extension 101 koons@ncfrpc.org

5. The proposed method of compensation is a fixed fee.
6. The issuance of this request for qualifications constitutes an invitation to present proposals from qualified and experienced proposers. The Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area reserves the right to determine, in its sole discretion, whether any aspect of the statement of proposal satisfactorily meets the criteria established in this request for qualifications, the right to seek clarification from any proposer or proposers submitting proposals, the right to solicit proposals with any proposers submitting a response, and the right to reject any or all responses with or without cause. The Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area also reserves the right to modify the scope to be considered for this

project. In the event that this request for qualifications is withdrawn by the Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area, or that the Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area does not proceed for any reason, including but not limited to the failure to occur of any of those findings or events set forth herein, the Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area shall have no liability to any proposer for any costs or expenses incurred in connection with the preparation and submittal of this request for qualifications or otherwise.

7. All proposers are hereby placed on formal notice that neither the Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area, nor any employees of the North Central Florida Regional Planning Council, are to be lobbied either individually or collectively concerning this project.

Proposers and their agents who intend to submit a proposal for these services are hereby placed on formal notice that they are not to contact members of the Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area, nor staff members of the North Central Florida Regional Planning Council, outside of regular public meetings for such purposes as holding meetings of introduction, meetings related to the selection process, outside of those specifically scheduled by the Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area for negotiations, dinners, lunches or any other actions that may be interpreted as potentially influencing the results of this process. Failure to comply with this requirement shall result in immediate disqualification of such firm by the Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area from further consideration of this proposal.

8. As required by Section 287.113, (2) (a), Florida Statutes, a person or affiliate who has been placed on the convicted vendor list following a conviction for a public entity crime may not submit a proposal or a contract to provide any goods or services to a public entity.
9. Each proposer shall be responsible for reading and completely understanding the requirements contained herein. The deadline for submission of letters of interest, statements of qualifications and proposals will be strictly adhered to. Late letters of interest, statements of qualifications and proposals will be returned unopened with the notation, "This material was received after the delivery time designated for receipt and opening in the legal notice."
10. Inquiries about this Request for Qualifications must be made in person at the scope of services meeting. Inquiries received by telephone, mail, facsimile or electronic communications will not be responded to by the Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area.
11. Proposers responding to this request shall bear all costs and expenses associated with its preparation. No claims shall be submitted to the Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area for preparation or presentation of proposals.
12. The criteria for evaluation of proposals is provided in Section IV (Evaluation Criteria/Proposal Rating Sheet). Only these criteria will be used to determine the best response.
13. Awards shall be made to the proposer whose qualifications and response shall be determined to be most advantageous to the Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area.

14. The Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area may unilaterally cancel any contract arising from the selected consultant's refusal to allow public access to all documents, papers, letters or other material subject to the provisions of Chapter 119, Florida Statutes which are made or received by the consultant in conjunction with the contract.
15. The Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area, in accordance with the provisions of Title VI of the Civil Rights Act of 1964 (78 Statutes 252) and the regulations of the U.S. Department of Commerce (15 Code of Federal Regulations, Part 8) issued pursuant to such Act, hereby notifies all proposers that it will affirmatively ensure that in any contract entered into pursuant to this advertisement, Disadvantaged Business Enterprises will be afforded full opportunity to submit proposals in response to this invitation. Further, the Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area will not discriminate against proposers on the basis of race, color, national origin, sex, age, disability, familial status, religious status, marital status, sexual orientation, or gender identity in consideration for an award.

D. PURPOSE

The Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area requires professional services for the Gainesville Urbanized Area Year 2045 Long-Range Transportation Plan Update.

E. DEFINITIONS

Fixed Fee: A firm fixed price not subject to adjustment due to the actual cost experience of the consultant in the performance of the contract.

Letter of Interest and Statement of Qualifications: The advertisement for services will require interested consultants to submit a letter of interest and statement of qualifications. The content criteria for the letter of interest and statement of qualifications is listed in Section II.

Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area: The Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area voting members include the Mayor and six Commissioners of the City of Gainesville and all five Alachua County Commissioners.

Project Manager: This is a person who is responsible for the general administration of the project and who coordinates activities between the consultant and the Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area ensuring that the consultant provides the specified services at a satisfactory level of quality, in accordance with the terms and conditions of the contract. Additionally, the Project Manager will initiate necessary actions as a result of the consultant's non-compliance with the terms and conditions of the contract.

Shortlist: This consists of no less than three consultants chosen by the Technical Review Committee. These consultants will be required to submit written proposals and present oral proposals for the required work in order to be considered for final selection.

Technical Review Committee: A Technical Review Committee will be assigned the responsibility to evaluate the letters of interest and statements of qualifications and make shortlist selections. This Committee will also be assigned the responsibility to evaluate the written and oral proposals submitted by the shortlisted consultants and rank the firms in priority order.

F. SCOPE OF WORK

For a detailed description of the required consultant services for the Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area, refer to EXHIBIT "A", Scope of Services.

G. PROJECT OVERVIEW

The selected consulting firm will assist the Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area in updating its adopted Year 2040 Long-Range Transportation Plan to the Year 2045 by accomplishing the following tasks:

Task 1- Public Involvement;

Task 2- Data Collection, Mapping and Data Development;

Task 3- Data Review and Verification

Task 4- Model Update and Validation;

Task 4- Goals, Objectives and Evaluation Criteria;

Task 5- Year 2045 Transportation Needs Plan and Cost Feasible Plan; and

Task 6- Required Documents.

H. SELECTION PROCESS

TECHNICAL REVIEW COMMITTEE

The Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area's Executive Director will appoint a Technical Review Committee to evaluate proposals. The members of this Committee will include two representatives from the Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area staff, one representative from the City of Gainesville Public Works Department, one representative from the Alachua County Department of Growth Management and one representative from the University of Florida Planning, Design and Construction Division.

SHORTLIST SELECTION

The letters of interest and statements of qualifications will be mailed to the Technical Review Committee and scored using the shortlist consideration factors discussed later in this section. Each member of the Technical Review Committee must base their evaluation on the same criteria. The Technical Review Committee members shall provide objective evaluations from a solely technical standpoint.

When each evaluator has completed, signed and dated the evaluation of each letter of interest and statement of qualifications, the scores sheet will be mailed to the Project Manager. These scores will be used to establish the rank order of each reviewer for the selection of the consultant. The rank order score of reviewers will be combined to determine the final rank score for the shortlist selection of the consultant.

All individual evaluations shall be signed and dated by the evaluator. The Technical Review Committee will shortlist no less than three consultants.

SHORTLIST SCORING FACTORS

1. The distribution of work among the competing consultants and the utilization of new consultants (for previous consultants assign less points and for new consultants assign more points) (0 to 25 points).
2. An indication of the firm's potential (available staff resources) for additional work in the next 30 months (0 to 25 points).
3. Balancing the needs of the project to the abilities of the consultants (0 to 50 points).

SHORTLIST NOTIFICATION

The Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area's Project Manager will contact each firm that submitted a letter of interest and statement of qualifications to inform them of which consultants were shortlisted.

PREPARATION OF REQUESTS FOR PROPOSALS PACKAGE

The Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area's Project Manager will prepare the Request for Proposal package to be provided to the shortlisted consultants.

SCOPE OF SERVICES MEETING

The purpose of the scope of services meeting is to provide a forum for all concerned parties to discuss the proposed project, answer questions on the scope of services, method of compensation, instructions for submitting proposals and other relevant issues. Since the Request for Proposal package is the working document on which a scope of services meeting is based, the shortlisted consultants shall be furnished a copy of the Request for Proposal at least one week prior to the scope of services meeting.

The scope of services meeting shall be attended by representatives of the shortlisted consultants and subconsultants, other functional area representatives (as necessary) and moderated by the Project Manager. The Project Manager will explain and answer questions to clarify project objectives, contractual requirements, method of compensation and selection procedures. Attendance at the scope of services meeting is mandatory. Failure to attend the scope of services meeting will disqualify a consultant. No questions concerning the Request for Proposal will be considered after the scope of services meeting.

Following the scope of services meeting, the Project Manager will update the scope of services as necessary. The updated scope of services will be made available to each shortlisted consultant and each member of the Technical Review Committee within fifteen (15) calendar days following the scope of services meeting.

TECHNICAL REVIEW CRITERIA

The criteria used in the evaluation of proposals and presentations is identified in Section IV. Each Technical Review Committee member will assign points to the proposals using the criteria listed in Section IV (Evaluation Criteria/Proposal Rating Sheet). Technical Review Committee members will ensure that each proposal has been rated fairly, impartially and comprehensively.

Each member of the Technical Review Committee must base their evaluation on the same criteria. The Technical Review Committee members shall provide objective evaluations from a solely technical standpoint. The assignment of points must be done individually by each reviewer and not as a consensus of the Committee. Committee members will not discuss the presentations before or after points are assigned.

When each reviewer has completed their evaluation of each proposal, the total raw score will be calculated for each reviewer. The total raw scores of each reviewer will be used to establish the rank order of each reviewer. The rank order score of all reviewers will be combined to determine the final rank score. All individual evaluations shall be signed and dated by the reviewer.

RANKING OF SHORTLISTED CONSULTANTS

The Technical Review Committee shall make the final selection based upon the rank order score. The Technical Review Committee shall select in order of preference the firms deemed to be the most highly qualified to perform the required services. Immediately after the selection, the shortlisted consultants shall be notified of the selection results.

NEGOTIATING CONTRACT FEES

Upon the ranking of the shortlisted consultants, the Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area Project Manager will begin negotiations with the number one ranked consultant. The negotiations for work effort shall focus on the technical proposal for the purpose of clarifying and resolving any differences concerning the scope of the project and the level of effort necessary to accomplish the project. The objective of work effort negotiations is to ensure that estimated work effort is fair and reasonable.

Should the Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area Project Manager be unable to negotiate an agreement, the Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area Project Manager will terminate negotiations with the consultant documenting the reason for rejection and initiate the aforementioned procedure with the consultant previously ranked second by the Technical Review Committee.

Should the Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area Project Manager be unable to negotiate an agreement with the second ranked consultant, the aforementioned procedure will be initiated with the third ranked consultant. Should the Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area Project Manager be unable to negotiate a satisfactory agreement with any of the selected consultants, the Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area Project Manager shall initiate a new selection process.

I. APPEALS PROCEDURE

The appeals procedure will be as provided for in Section 120.53(5) and Section 120.57, Florida Statutes. Failure to file a protest within the time prescribed in Section 120.53(5), Florida Statutes, shall constitute a waiver of proceedings under Chapter 120, Florida Statutes.

1. On the first business day following the Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area Technical Review Committee making the final decision, staff of the Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area will notify each firm submitting a proposal, by certified United States mail or express delivery, of the Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area Technical Review Committee's final decision.
2. Any person adversely affected by the intended decision to award a contract or to reject all proposals shall file a notice of protest in writing to the Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area within seventy-two (72) hours after receipt of the notice of intended decision is given.
3. Thereafter, any person or entity which has filed a notice of protest to the final decision of the Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area Technical Review Committee, shall file a formal written protest and a bond within ten (10) days after filing the notice of protest. The formal written protest must be in a form substantially similar to the form set out in Rule 28-110.004(2), Florida Administrative Code and must state with particularity the facts and law upon which the protest to the final decision is based. The bond must be in a form substantially similar to the form set out in Rule 28-110.005(2), Florida Administrative Code.
4. All notices of protest and formal written protest must be filed with the Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area, 2009 NW 67th Place, Gainesville, FL 32653-1603. Filing is completed upon delivery and receipt by the Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area. A protest is not timely filed unless both the notice of protest and the formal protest are received within the required time limits. "Failure to file a protest within the time prescribed in Section 120.57(3), Florida Statutes, or failure to protest the bond or other security required by law within the time allowed for filing a bond shall constitute a waiver of proceedings under Chapter 120, Florida Statutes.
5. A protest is not timely filed unless both the notice of protest and the formal protest are received within the required time limits.
6. A written notice of protest which is filed by 5:00 p.m. on the date on which the seventy-two (72) hours expires shall be timely.

In computing the time in which to file a notice of protest or formal protest, the day of the event from which the designated period of time begins to run shall not be included. The last day of the period so computed shall be included unless it is a Saturday, Sunday or a holiday. When the period of time prescribed is less than seven (7) days, intermediate Saturdays, Sundays and holidays when the office of the Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area are closed shall be excluded from the computation.

The Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area reserves the right to waive any informality in any proposal, to reject any or all proposals in whole or in part, with or without cause, and/or to accept the proposal that in its judgment will be in the best interest of the Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area.

SECTION II

LETTER OF INTEREST AND STATEMENT OF QUALIFICATIONS

Firms desiring consideration for this project must submit three (3) copies of their letter of interest and statement of qualifications. One of these copies must be a clean, single-side original that can be used to make additional copies.

The letter of interest and statement of qualifications must demonstrate the expertise of the potential consultant, including its subconsultants, if any, to assist in the development of a multimodal (automotive, bicycle, pedestrian and transit) long-range transportation plan. Proposers shall provide a list of all communities that they have provided long-range transportation plan update consulting services. Proposers shall also demonstrate their experience in working to enhance transit systems and in growing mid-sized cities.

The letter of interest and statement of qualifications must, as a minimum, include the following information:

1. Name, address, contact person and phone number;
2. Listing of key staff and resumes;
3. Listing of any subconsultants anticipated to be used on this project;
4. An indication of the firm's potential (available manpower) for additional work in the next 30 months;
5. Experience on similar type projects, including location, date completed, contact (reference) name and phone number; and
6. Proof of professional liability insurance or letter of credit in accordance with Rule 14-75, Florida Administrative Code.

THIS PAGE LEFT BLANK INTENTIONALLY

SECTION III

WRITTEN PROPOSAL AND ORAL PRESENTATION

It is the responsibility of the proposer to prepare the written proposal as clearly as possible in order to avoid any misinterpretation of the information presented. Proposals will be reviewed and evaluated solely on the basis of the information contained therein. ***Modifications or changes cannot be made to the proposals after they are submitted.***

INSTRUCTIONS FOR WRITTEN PROPOSALS

The following information will be submitted in the written proposal.

1. The shortlisted consultants will use simplified proposal formats and packaging for the proposal and will restrict the content of the proposal to a demonstration of an awareness of project issues, explanation of the proposed approach to the project and plans for the staffing of the project.
2. There is a limit of twenty (20) single sided, letter sized pages, exclusive of resumes, staffing charts and required forms for written proposals. Font size shall be 12 point. The length of resumes will also be limited to two pages per person.
3. Number all pages of the written proposal, including any attachments.
4. Faxed and e-mailed written proposals will not be accepted.
5. The shortlisted consultants will submit as part of the written proposal a summary staff hour estimate.
6. The shortlisted consultants will submit all of the forms contained in EXHIBIT B.
7. The shortlisted consultants will submit eight (8) copies of the written proposal to the Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area's Project Manager. One of these copies must be a clean, single sided original that can be used to make additional copies.
8. Written proposals, and requisite copies, must be received by 5:00 p.m. Eastern Daylight Savings Time, July 25, 2018 at the office of the Metropolitan Transportation Planning Organization. All proposals must be sent to the attention of:

Mr. Scott R. Koons, AICP, Executive Director
Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area
2009 N.W. 67th Place
Gainesville, FL 32653-1603

9. All proposals shall be signed by an authorized corporate officer, principal or partner (as applicable).

INSTRUCTIONS FOR ORAL PRESENTATIONS

The following information will be addressed in the oral presentation.

1. The shortlisted consultants will make their presentations project specific. The presentations will demonstrate an awareness of project issues, explain the proposed approach to the project and discuss plans for the staffing of the project.
2. Any handouts to be submitted at the Oral Presentation will be restricted to copies of visual aids used in the presentation.
3. There will be a maximum of five (5) participants.
4. The time limit will be twenty (20) minutes for a formal presentation, fifteen (15) minutes for questions and answers and ten (10) minutes for setup and takedown.
5. Videos may not be used in the presentation. However, any other media may be used.
6. The order of presentations shall be by random drawing at the scope of services meeting.

SECTION IV

EVALUATION CRITERIA/PROPOSAL RATING SHEET

Each member of the Technical Review Committee must base their evaluation on the same criteria so that value uniformity can be established. The following considerations will be used. The evaluation criteria, including their relative importance, will be provided to the shortlisted consultants in the Request for Proposal.

1. Awareness of Project Issues: (0 to 35 points) - Includes the consultant's understanding of the scope of services and of any unique issues involved in the project.
2. Proposed Approach to Project: (0 to 30 points) - Includes the consultant's approach to the project, unique concepts, proposed quality review schedule, the reasonableness of the proposed schedule based on the quantity of personnel available and whether the individual tasks are staged properly and in proper sequence.
3. Proposed Project Staffing: (0 to 25 points) - Includes the consultant's staffing quality and availability, experience on similar projects, proposed subconsultants, interrelationship between the consultant and any proposed subconsultants.
4. Other Considerations: (0 to 10 points) - Communication ability, use of specialized equipment, commitment to satisfy the Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area 's needs and past performance on similar projects.

The Technical Review Committee members shall provide objective evaluations from a solely technical standpoint. The Committee is not allowed to discuss the presentations before points are assigned. The assignment of points must be done individually by each reviewer and not as a consensus of the Committee.

When each evaluator has completed the evaluation of each proposal, the raw scores will be transmitted to the Project Manager, who will calculate the total score of each reviewer. These scores will be used to establish the rank order of each reviewer for the selection of the consultant. The rank order score of reviewers will be combined to determine the final rank score for the selection of the consultant. All individual evaluations shall be signed and dated by the evaluator.

THIS PAGE LEFT BLANK INTENTIONALLY

EXHIBIT A

SCOPE OF SERVICES

THIS PAGE LEFT BLANK INTENTIONALLY

SCOPE OF SERVICES
FOR THE
GAINESVILLE URBANIZED AREA
YEAR 2045 LONG-RANGE TRANSPORTATION PLAN UPDATE

Prepared by:

Metropolitan Transportation Planning Organization
for the Gainesville Urbanized Area

With Assistance from:

North Central Florida Regional Planning Council
2009 NW 67th Place
Gainesville, FL 32653-1603
352.955.2200

April 23, 2018

THIS PAGE LEFT BLANK INTENTIONALLY

TABLE OF CONTENTS

INTRODUCTION	A-7
FEDERAL AND STATE REQUIREMENTS.....	A-7
TECHNICAL TASKS	A-8
TECHNICAL REPORTS	A-8
TASK 1 - PUBLIC INVOLVEMENT.....	A-9
1.1 PUBLIC PARTICIPATION PROCESS AND DOCUMENTATION	A-9
1.2 PUBLIC INVOLVEMENT STRATEGY IMPLEMENTATION	A-11
1.3 TECHNICAL REPORT 1.....	A-12
TASK 2 - DATA COLLECTION, MAPPING AND DATA DEVELOPMENT.....	A-13
2.1 DATA COLLECTION	A-13
2.2 MAPPING	A-14
2.3 DATA DEVELOPMENT	A-15
2.4 DESIGNATION OF SCREENLINES.....	A-17
2.5 TRAFFIC COUNT DATA	A-17
2.6 HIGHWAY AND TRANSIT NETWORKS	A-17
2.7 TRANSIT SERVICE DATA.....	A-18
2.8 DATA PROJECTIONS	A-18
2.9 FINANCIAL RESOURCES.....	A-19
2.10 TECHNICAL REPORT 2.....	A-20
TASK 3 - DATA REVIEW AND VERIFICATION.....	A-21
3.1 REVIEW ZONAL DATA (ZDATA) INPUTS	A-21
3.2 REVIEW 2010 HIGHWAY AND TRANSIT NETWORK	A-21
3.3 REVIEW 2010 TRAFFIC COUNT AND 2010 TRANSIT RIDERSHIP DATA.....	A-22
3.4 REVIEW TRIP GENERATION RATE	A-22
3.5 REVIEW TRIP LENGTH DISTRIBUTION	A-22
3.6 REVIEW AUTO OCCUPANCY RATES.....	A-22
3.7 REVIEW TRANSIT PARAMETERS.....	A-23
3.8 TECHNICAL REPORT 3.....	A-23
TASK 4 - MODEL UPDATE AND VALIDATION	A-24
4.1 VALIDATE EXTERNAL TRIPS	A-24
4.3 VALIDATE THE TRANSIT PATH BUILDING MODEL.....	A-25
4.4 VALIDATE THE TRIP DISTRIBUTION MODEL.....	A-26
4.5 VALIDATE THE MODE CHOICE MODEL.....	A-26
4.6 VALIDATE THE TRANSIT ASSIGNMENT MODEL.....	A-27

4.7	VALIDATE THE HIGHWAY ASSIGNMENT MODEL	A-27
4.8	FINAL MODEL VALIDATION	A-28
4.9	GAINESVILLE URBANIZED AREA TRANSPORTATION MODEL TRANSIT PROCEDURE TECHNICAL MEMORANDUM	A-28
4.10	TECHNICAL REPORT 4.....	A-29
TASK 5 - YEAR 2045 TRANSPORTATION NEEDS PLAN AND COST FEASIBLE PLAN		A-30
5.1	NETWORK CODING, EDITING AND DEBUGGING	A-31
5.2	DEVELOPMENT OF THE EXISTING PLUS COMMITTED NETWORK.....	A-31
5.3	DEVELOPMENT OF THE YEAR 2045 LONG-RANGE TRANSPORTATION NEEDS PLAN	A-31
5.4	TECHNICAL REPORT 6.....	A-31
TASK 6 - YEAR 2045 LONG-RANGE TRANSPORTATION PRELIMINARY AND CONSTRAINED NEEDS PLAN		A-32
6.1	DEVELOPMENT OF THE YEAR 2045 LONG-RANGE TRANSPORTATION PRELIMINARY AND CONSTRAINED NEEDS PLAN	A-32
6.2	RANKING OF PROJECTS AND PROGRAMS IN THE YEAR 2045 LONG-RANGE TRANSPORTATION NEEDS PLAN.....	A-34
6.3	INCORPORATING SAFETY INTO LONG-RANGE TRANSPORTATION PLANNING	35
6.4	TECHNICAL REPORT 6.....	A-35
TASK 7 - DEVELOPMENT OF THE YEAR 2045 LONG-RANGE TRANSPORTATION COST FEASIBLE PLAN		A-36
7.1	DEVELOPMENT OF THE YEAR 2045 LONG-RANGE TRANSPORTATION COST FEASIBLE PLAN	A-36
7.2	APPROVAL OF THE YEAR 2045 LONG-RANGE TRANSPORTATION COST FEASIBLE PLAN	A-41
7.3	TECHNICAL REPORT 7.....	A-42
PROJECT TIME LINE.....		A-42
REQUIRED DOCUMENTS		A-42
TECHNICAL REPORTS AND MEMORANDUMS		A-43
FINAL REPORT		A-43
SUMMARY REPORT.....		A-43
SUMMARY POSTER.....		A-44
EXHIBIT B REQUIRED FORMS.....		B-1
EXHIBIT C FEDERAL HIGHWAY ADMINISTRATION LONG-RANGE TRANSPORTATION PLAN GUIDANCE		C-1
EXHIBIT D FLORIDA DEPARTMENT OF TRANSPORTATION METROPOLITAN PLANNING ORGANIZATION PROGRAM HANDBOOK LONG-RANGE TRANSPORTATION PLAN CHECKLIST		D-1

INTRODUCTION

Every five years, the Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area updates its long-range transportation plan. The purpose of this plan update is to encourage and promote a safe and efficient transportation system to serve future year transportation demands. Results of the long-range transportation plan process are intended to serve the overall mobility needs of the area, while also being cost effective and consistent with state and local goals and objectives.

The Gainesville Metropolitan Area is located in the center of Alachua County, Florida and incorporates the City of Gainesville, as well as the surrounding urban and transitioning areas. Census 2010 data indicates that this area is inhabited by approximately 188,000 residents and accounts for approximately 75 percent of the total population of the county.

The Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area manages the transportation network and mobility needs for the Gainesville Metropolitan Area and recognizes the inter-connectivity between network accessibility and land use development patterns. Prior decision making has focused on producing a multi-modal transportation network consisting of roads, transit service, bicycle/pedestrian facilities and a regional airport. These modes of transportation provide a foundation for handling the flow of goods and services to and from the area, as well as establish a system for area residents to access jobs, shopping and recreational facilities.

This document presents the tasks and data requirements to identify and develop a list of transportation projects to meet anticipated future demand needs of the Gainesville Metropolitan Area through the Year 2045. Major components of this update process include consistency with federal and state guidelines as established in the Florida Department of Transportation *Metropolitan Planning Organization Program Management Handbook* and significant attention to public participation, mapping, data development and model validation. These components shall establish a policy foundation for long-range transportation decisions affecting the Gainesville Metropolitan Area and are described in more detail in the following list of tasks.

Unless otherwise stated, all tasks discussed in the following pages shall be the responsibility of the CONSULTANT. Acronyms shall not be used in the technical report text, tables, maps and illustrations.

FEDERAL AND STATE REQUIREMENTS

Federal and state statutes outline the general requirements for long-range transportation plan updates and are incorporated in this Scope of Services. These outlines are broadly defined at the federal and state level by the following:

1. Federal Act - Fixing America's Surface Transportation Act;
2. 23 Code of Federal Regulations 450.316 and 450.322;
3. Section 339.175, Florida Statutes; and
4. Florida Department of Transportation *Metropolitan Planning Organization Program Management Handbook*.

The consultant shall address and include appropriate documentation for all items described in Exhibit C and Exhibit D of this scope of services.

TECHNICAL TASKS

This Scope of Services is subdivided into five separate tasks that outline the basic requirements of the long-range transportation plan update. Unless otherwise noted, the CONSULTANT is expected to fulfill each of the defined tasks and provide written documentation in the form of technical reports and/or technical memorandums. The CONSULTANT shall provide appropriate project management and coordination sufficient to assure production control and assistance to the Project Manager. The tasks to complete the long-range transportation plan update are defined as follows:

- Task 1: Public Involvement - It is imperative that the public involvement aspect of this update conforms to federal and state guidelines and provide ample opportunity for public review and comment.
- Task 2: Data Collection, Mapping and Data Development - Aspects of this task include development of the highway and transit networks, review and update of the traffic analysis zones, development of socioeconomic data and the research of future financial resources.
- Task 3: Data Review and Verification - Task 3 includes a careful review and analysis of socioeconomic data and model input files.
- Task 4: Model Update and Validation - This task involves the validation of each of the components of the travel demand model to federal and state recommended thresholds.
- Task 5: Year 2045 Long-Range Transportation Needs Plan - Elements within this task provide for Year 2045 Long-Range Transportation Needs Plan development.
- Task 6: Year 2045 Long-Range Transportation Preliminary and Constrained Needs Plan - Elements within this task provide for Year 2045 Long-Range Transportation Preliminary and Constrained Needs Plan development.
- Task 7: Year 2045 Long-Range Transportation Cost Feasible Plan - Elements within this task provide for Year 2045 Long-Range Transportation Cost Feasible Plan development.

TECHNICAL REPORTS

For reference purposes, it is important that the entire work effort be well documented. Acronyms shall not be used in the technical report text, tables, maps and illustrations. Technical reports detailing methodology and technique are required for each task. Specifically, the following seven technical reports are required.

- Technical Report 1- documents public involvement in the plan development process.
- Technical Report 2- develops required maps, background data and financial resource information.
- Technical Report 3- documents data review and verification.
- Technical Report 4- documents model update and validation.
- Technical Report 5- documents Year 2045 Long-Range Transportation Needs Plan development.
- Technical Report 6- documents the identification, evaluation and selection of the Year 2045 Long-Range Transportation Preliminary and Constrained Needs Plan, all Needs Plan Alternatives and the Needs Plan project ranking.
- Technical Report 7- documents Year 2045 Long-Range Transportation Cost Feasible Plan development.

TASK 1 - PUBLIC INVOLVEMENT

Public participation is a critical component of the long-range transportation planning process. Therefore, the CONSULTANT shall proactively implement the long-range transportation plan strategies and procedures of the Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area Public Involvement Plan so that the public shall have early and continuing involvement in the plan development process. This public participation process is intended to provide sufficient opportunity for involvement of public officials (including elected officials) and citizens in the development of the long-range transportation plan before its approval by the Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area.

The CONSULTANT shall develop a public involvement schedule and document public participation activities in accordance with Fixing America's Surface Transportation Act requirements. The public involvement schedule shall identify a contact person, as well as general contact information concerning how to get involved.

The CONSULTANT shall be responsible for conducting the following public workshops and public hearings:

- Public workshop #1 early in the plan update process to give a status report on the current long-range transportation plan implementation and to discuss the development of the vision statement, goals, objectives and policies;
- Public workshop #2 on the results of testing and evaluating alternative networks one and two discussed in Task 6;
- Year 2045 Long-Range Transportation Needs Plan public hearing;
- Public workshop #3 on the adopted Year 2045 Long-Range Transportation Needs Plan to obtain public input on projects that should be selected for the draft Year 2045 Long-Range Transportation Cost Feasible Plan; and
- Year 2045 Cost Feasible Plan public hearing.

The public participation schedule shall provide for outreach to Federal, State, Tribal wildlife, land management and regulatory agencies. In addition, the public participation schedule shall also provide for outreach to citizens, affected public agencies, agencies responsible for natural resources, environmental protection, conservation and historic preservation, representatives of public transportation employees, freight shippers, providers of freight transportation services, private providers of transportation, representatives of users of public transportation, representatives of users of pedestrian walkways and bicycle transportation facilities, representatives of the disabled and other interested parties with responsible opportunities to be involved in the development of the long-range transportation plan.

1.1 PUBLIC PARTICIPATION PROCESS AND DOCUMENTATION

The CONSULTANT shall implement public participation activities in accordance with criteria in the Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area Public Involvement Plan and provide documentation in a technical report and as part of the final report that describes explicit procedures, strategies and outcomes for:

1. Providing adequate public notice of public participation activities and time for public review and comment at key decision points, including but not limited to, a reasonable opportunity to comment on the proposed long-range transportation plan;
2. Providing timely notice and reasonable access to information about transportation issues and processes;
3. Employing visualization techniques to describe proposed long-range transportation plans for use at public workshops and meetings;
4. Making public information (technical information and meeting notices) available in electronically accessible formats and means, such as the World Wide Web;
5. Holding public meetings at convenient and Title VI-compliant locations and times;
6. Providing, as needed, planning documentation in Spanish to address Limited-English proficiency strategy of the Public involvement Plan;
7. Demonstrating explicit consideration and response to public input received during the development of the long-range transportation plan;
8. 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;
9. Consulting with Federal, State, Tribal, wildlife, land management and regulatory agencies and agencies responsible for natural resources, environmental protection, conservation and historic preservation; and
10. Providing an additional opportunity for public comment, if the final long-range transportation plan differs significantly from the version that was made available for public comment by the Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area and raises new material issues which interested parties could not reasonably have foreseen from the public involvement efforts.

When significant written and oral comments are received on the draft long-range transportation plan (including the financial plan), the CONSULTANT shall prepare a summary, analysis and reports on the disposition of public comments and include this material as part of the adopted Year 2045 Long-Range Transportation Cost Feasible Plan Final Report. Agendas for all public hearings shall be available in Braille or large print upon request, as well as recorded versions of the same. With adequate advance notice, sign language interpretation shall be available for all public meetings. The availability of these media alternatives shall be advertised.

Elements of this work task are integrated throughout the study process and include the following:

1. Development of Vision Statement, Goals, Objectives and Evaluation Criteria;
2. Presentations to the Citizens Advisory Committee, Technical Advisory Committee, Bicycle/Pedestrian Advisory Board and the Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area;

3. Public presentations;
4. Preparation of an Executive Summary; and
5. Preparation of a Year 2045 Plan poster similar in design to the Year 2040 Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area Livable Community Reinvestment Plan poster.

1.2 PUBLIC INVOLVEMENT STRATEGY IMPLEMENTATION

The CONSULTANT shall implement the Public Involvement Plan strategies for the long-range transportation plan update which includes outreach to the elderly, persons with disabilities, minorities and low-income community and other groups traditionally under-represented in the plan update process. Strategies to solicit input from the business, environmental and other communities of local significance, such as focus groups, shall also be implemented.

- 1.2.1 Communication approaches to be used include the use of periodic newsletters and website. This website shall have a standalone address and there will be a direct link from the website of the North Central Florida Planning Council. The purpose of this website is to provide access to materials prepared during the plan update process.
- 1.2.2 The CONSULTANT shall develop a vision statement and a list of goals and objectives that shall govern the development of the long-range transportation plan, including long-range and short-range strategies and actions consistent with state and local goals and objectives. The CONSULTANT shall develop a process that ensure the public has adequate opportunity to provide input in developing the vision statement and the goals and objectives for the long-range transportation plan.

The CONSULTANT shall develop draft goals and objectives that include a review of the goals and objectives adopted by the City of Gainesville and Alachua County in their Comprehensive Plans. The State Comprehensive Plan and the North Central Florida Strategic Regional Policy Plan shall also be reviewed. Efforts shall be made to ensure that the goals and objectives of this update are consistent with State, regional and local comprehensive plans.

The CONSULTANT shall consider the goals and objectives identified in the Florida Transportation Plan.

The CONSULTANT shall include draft goals concerning safety and security. This information shall be provided to the public during the first public workshop.

- 1.2.3 The CONSULTANT shall incorporate visualization techniques in the public participation process to describe various aspects of the long-range transportation plan.
- 1.2.4 The CONSULTANT shall participate in at least eight briefings each that shall be held for the Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area Citizens Advisory Committee, Technical Advisory Committee and Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area, including representatives of the Florida Department of Transportation. The Alachua County Traffic Safety Team, Alachua County Transportation Disadvantaged Coordinating Board and Bicycle/Pedestrian Advisory Board shall be invited and encouraged to attend briefings that are made to the Citizens Advisory Committee.

The CONSULTANT shall be responsible for all handout material, graphics, visual aids and equipment necessary for these presentations. The purpose of these briefings shall be to discuss the progress of the update, key decisions and milestones.

- 1.2.5 The CONSULTANT shall advertise and conduct at least three public workshops during the planning process. The first public workshop shall inform the public of the long-range transportation plan update and occur early in the project to outline the study scope, goals and timing. A portion of each meeting shall be devoted to questions and answers and the public shall be asked to identify and provide information about transportation problem areas.

The Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area shall conduct a minimum of two public hearings, one to solicit public comment on the proposed Year 2045 Long-Range Transportation Needs Plan and one to solicit public comment on the proposed Year 2045 Long-Range Transportation Cost Feasible Plan.

- 1.2.6 The CONSULTANT shall document the entire public involvement effort in Technical Report 1. This document shall include photographs, a review of materials and subjects discussed, recurrent issues or themes and results of the process. The CONSULTANT is responsible for preparing meeting minutes for all public workshops, meetings and hearings, including documenting all public comments. All meeting minutes, emails, comments from the public and related information concerning the draft long-range transportation plan and technical reports shall be compiled in Technical Report 1.

1.3 TECHNICAL REPORT 1

The CONSULTANT shall document in Technical Report 1 the implementation of the public involvement.

TASK 2 - DATA COLLECTION, MAPPING AND DATA DEVELOPMENT

The purpose of this task is to develop the maps, model networks and data files needed to validate and run the transportation model. Data inputs to the model include socioeconomic data in the form of zonal data (ZDATA) files, traffic counts and transit ridership. This task shall also develop existing and projected financial resources to fund needed transportation projects by the Year 2045. Technical Report 2 shall describe the entire map development effort, as well as the development of zonal data (ZDATA) and the research of future financial resources.

2.1 DATA COLLECTION

The CONSULTANT shall collect datasets from the existing model and determine if they contain any usable information. The CONSULTANT shall collect, create, and/or compile datasets necessary to validate and calibrate the Gainesville Urban Area Transportation System travel demand model. The CONSULTANT shall revise screenlines and cutlines as necessary. The CONSULTANT shall collect and utilize all necessary traffic count data. The CONSULTANT shall conduct a roadway inventory to develop a 2010 Highway System Network including facility type, number of travel lanes in each direction, presence of turn lanes, posted speed, functional classification and other information as necessary. This roadway inventory shall incorporate Florida Department of Transportation Roadway Characteristics Inventory system data. The CONSULTANT shall be responsible for the coding, reviewing, editing and debugging of the 2015 Base Year network. The CONSULTANT shall collect necessary transit service data in order to construct transit networks and validate/calibrate the Gainesville Urbanized Area Transportation System model. In addition, the CONSULTANT shall use the bicycle and pedestrian facility inventory maintained by the Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area and collect any additional appropriate bicycle and pedestrian data. This data shall be incorporated in the model as a layer file similar to the transit network.

- 2.1.1 The screenlines and cutlines developed for the last plan update shall be revised as appropriate and used in the validation of the 2015 Base Year Model. The CONSULTANT shall be responsible for the review and modification of the screenlines and cutlines.
- 2.1.2 The CONSULTANT shall be responsible for all traffic count data necessary to validate/calibrate the 2015 Base Year Model. Extensive traffic count data has been collected by the Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area, Florida Department of Transportation, the City of Gainesville, Alachua County and other partner agencies. This data shall be made available to the CONSULTANT. The CONSULTANT shall review the most recent traffic count data/locations for adequacy and shall adjust the most recent counts for state facilities to average weekday peak season counts. If available, seasonal adjustment factors for local roads shall be used where appropriate.
- 2.1.3 A highway network shall be developed by the CONSULTANT for the 2015 Base Year. This network shall include double digit coding to allow for more accurate facility type representation. The revised model network shall incorporate changes to networks since the last plan update.
- 2.1.4 A Transit Network shall be developed by the CONSULTANT for the 2015 Base Year. The structure of this model system will allow for different modes of transit, such as bus rapid transit, fixed rail, streetcar and trolley.

- 2.1.5 Transit service data necessary to validate/calibrate the travel demand model shall be obtained from the Regional Transit System by the CONSULTANT for all City of Gainesville, Alachua County and University of Florida routes. All appropriate data obtained from special transit studies shall be reviewed and incorporated by the CONSULTANT where suitable.

Transit service data shall include, but not be limited to:

- A. AM Peak Screenline Ridership by route, mode and corridor;
- B. Midday (off-peak) Screenline Ridership by route, mode and corridor;
- C. Average Weekday Ridership by route, mode and corridor; and
- D. Average Weekday Transfer Data for AM Peak and Midday Ridership transferring between modes and between routes of the same mode.

2.2 MAPPING

The CONSULTANT shall be required to provide maps and digital copies of the data collected to Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area to facilitate the review and revision of the data prior to its use during model validation and calibration. Maps and data may include the study area boundary, the principal street system, traffic analysis zones, the highway system network maps (link/node plots) and data files, the transit system network maps and data files and other such maps that shall be used as working instruments.

All shapefiles shall be delivered to the Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area by the CONSULTANT in Florida Standard Urban Transportation Modeling Structure format and in Economic and Social Research Institute ArcMap shapefile format (Version 10.6 or later). Network maps shall be in line format with all roadway and/or transit network attributes and shall be used on the City of Gainesville Street Centerline File, unless an alternative road dataset is approved by Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area. The data shall be projected using North American Datum of 1983 (NAD83) North Florida State Plane Feet coordinate system unless an alternative projection system is approved by Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area.

- 2.2.1 A new Traffic Analysis Zone Map shall be developed. This task shall be prepared by the CONSULTANT and provided to the Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area for review and approval prior to model validation.
- 2.2.2 A Highway System Network Map shall be developed by the CONSULTANT for the 2015 Base Year Network and include double-digit coding for more specific facility and area type designations. The CONSULTANT shall provide draft Highway System Network maps and data to Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area for review and approval prior to model validation. The Network shall also utilize the true shape display function in Cube Voyager for more accurate graphical representation.
- 2.2.3 A Transit System Network Map shall be developed by the CONSULTANT for the 2015 Base Year. The format of this map shall be consistent with the transit base year network for the last plan update. The CONSULTANT shall provide draft Transit System Network maps and data to Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area and Regional Transit System for review and approval prior to model validation.

- 2.2.4 For purposes of documenting mode split, a Bicycle Facilities Network Map shall be developed by the CONSULTANT for the 2015 Base Year. The CONSULTANT shall provide draft Bicycle Facilities System Network maps and data to Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area for review and approval prior to model validation. Any information provided by the CONSULTANT may be used by the Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area for creating an updated bicycle map in an effort separate from this update of the long-range transportation plan.
- 2.2.5 For purposes of documenting mode split and identifying gaps in access to transit, a Sidewalk Network Map shall be developed by the CONSULTANT for the 2015 Base Year. The CONSULTANT shall provide draft Sidewalk Network maps and data to Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area and Regional Transit System for review and approval prior to model validation.
- 2.2.6 For purposes of documenting freight considerations, a Freight Corridor Map shall be developed by the CONSULTANT for the 2015 Base Year. The CONSULTANT shall provide a draft Freight Corridor Map and data to Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area for review and approval prior to model validation. The CONSULTANT shall use the Statewide Freight Model for identifying long-haul truck distribution patterns.
- 2.2.7 The development of all maps shall be documented by the CONSULTANT in Technical Report 2.

2.3 DATA DEVELOPMENT

The socioeconomic data developed for the Year 2045 Update shall be prepared by Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area staff for both Base Year 2015 and Future Year 2045. Base year 2015 data shall be developed by using information obtained from the 2015 American Community Survey, 2017 National Household Travel Survey Florida Add-on program, Info USA employment data, Chamber of Commerce Employment Statistics, State of Florida Agency for Workforce Innovation and Property Appraiser records where necessary.

The scope of services for this plan update shall include testing and evaluating one future land use scenario developed by Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area staff. This scenario represents the most realistic forecast of where people shall live and work in Alachua County in the Year 2045 based upon currently adopted comprehensive plans.

Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area and the CONSULTANT shall also work with the University of Florida to develop specific socioeconomic data related to model production and attraction rates for the University of Florida campus and surrounding areas. Specific information regarding campus trip generation rates, mode splits and auto occupancy rates shall be included in the Year 2045 Update by the CONSULTANT.

The CONSULTANT shall assist Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area in review of this data, perform necessary edit checks and make any corrections as may be required by the Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area. Additionally, the CONSULTANT shall deliver all zonal data (ZDATA) in Florida Standard Urban Transportation Modeling Structure format and in ArcMap shapefile format for the traffic analysis zone and boundary maps.

The CONSULTANT shall obtain data relating to travel demand for airports, intermodal facilities, recreation areas, significant commercial activity centers and freight distribution facilities. The intent is to accumulate sufficient data suitable for adequately analyzing the trip production and attraction as well as accessibility to such facilities. Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area and the CONSULTANT shall coordinate the development of this list with the City of Gainesville, Alachua County and the Florida Department of Transportation.

The CONSULTANT shall ensure that all data is based upon the latest available estimates and assumptions for population, land use, travel, employment, congestion and economic activity.

2.3.1 Zonal Data One (ZDATA1): Population and household data for each model traffic analysis zone shall be obtained from the following sources by Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area:

- A. 2015 Base Year population and housing data for each traffic analysis zone shall be obtained from the 2010 U.S. Census and the Census Transportation Planning Package for the following:
 - 1. Population and the number of single-family and multi-family units;
 - 2. Auto availability;
 - 3. Percentage of vacant single-family and multi-family units;
 - 4. Population and number of single-family and multi-family units occupied by non-permanent residents; and
 - 5. According to Florida Standard Urban Transportation Modeling Structure for trip generation, add median family income variable if this data is available.

This information shall be cross referenced with 2015 Property Appraiser parcel records.

- B. Future year population and income forecasts shall be obtained from the University of Florida, Bureau of Economic and Business Research. These forecasts shall be used as control totals for future population and provide a basis for estimating other socioeconomic factors, such as housing and employment.
- C. The number of hotel/motel units shall be obtained from the Florida Department of Business Regulation, Division of Hotels and Restaurants. This data shall be supplemented by a Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area survey of hotel/motels to determine the percentage of occupied units and persons per occupied unit during the peak season.
- D. The percentage of vacant single-family and multi-family dwelling units as identified in the Year 2015 American Community Survey data shall be used.

- 2.3.2 Zonal Data Two (ZDATA2): 2015 Base Year employment data shall be developed by Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area for each traffic analysis zone, classified by type (service, commercial, manufacturing and industrial). This data shall be verified using Property Appraiser records, occupational licenses and Info USA data provided by the Florida Department of Transportation. Employment data shall be cross referenced with the Chamber of Commerce large employers database for consistency (as it relates to size and location) and with Florida Agency for Workforce Innovation information.
- A. Parking cost shall be developed for the City and University of Florida campus traffic analysis zones where short-term (average 3 hours) paid parking is available and/or where long-term (average 9 hours) paid parking is offered.
- B. 2015 Base Year public school enrollment shall be obtained from the Alachua County School Board. Comparable data shall be obtained from private schools within the study area. Private school enrollment data is available from the Florida Department of Education.
- 2.3.3 Zonal Data Three (ZDATA3): The CONSULTANT shall develop data for airports, universities, regional shopping malls, military installations, which function as special generators.
- 2.3.4 Zonal Data Four (ZDATA4) and External-External Trips (EETRIPS) files developed for the last plan update shall be reviewed and updated by the CONSULTANT.

2.4 DESIGNATION OF SCREENLINES

The screenlines and cutlines developed for the last plan update shall be revised as appropriate and used in the validation of the 2015 Base Year Model by the CONSULTANT.

2.5 TRAFFIC COUNT DATA

The CONSULTANT shall be responsible for all traffic count data necessary to validate/calibrate the 2015 Base Year Model. Extensive traffic count data has been collected by the Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area and Florida Department of Transportation and shall be made available to the CONSULTANT. The CONSULTANT shall review the traffic count data/locations for adequacy and shall adjust the counts:

- to average weekday peak season counts; and
- to account for heavy vehicle traffic.

If available, seasonal adjustment factors for local roads developed by the Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area shall be used where appropriate.

2.6 HIGHWAY AND TRANSIT NETWORKS

- 2.6.1 A highway network shall be developed by the CONSULTANT for the 2015 Base Year. This network shall be compatible with the ArcMap Geographic Information System format. The structure of this network shall be consistent with, but not limited to, the highway network for the previous update. This network shall also include double digit coding to allow for more accurate facility type representation and true shape format for graphical representation. The revised model network shall incorporate changes to networks since the last plan update.

2.6.2 A Transit Network shall be developed by the CONSULTANT for the 2015 Base Year. This network shall be compatible with the ArcMap Geographic Information System format. The structure of this model system shall be consistent with the transit base year network for the last plan update.

2.7 TRANSIT SERVICE DATA

Transit service data necessary to validate/calibrate the travel demand model shall be obtained from the Regional Transit System and other public transportation operators as warranted by the CONSULTANT for both City and University of Florida campus routes. All appropriate data obtained from special transit studies shall be reviewed and incorporated by the CONSULTANT where suitable.

Transit service data shall include, but not be limited to:

- A. AM Peak Screenline Ridership by route, mode and corridor;
- B. Midday (off-peak) Screenline Ridership by route, mode and corridor;
- C. Average Weekday Ridership by route, mode and corridor; and
- D. Average Weekday Transfer Data for AM Peak and Midday Ridership transferring between modes and between routes of the same mode.

2.8 DATA PROJECTIONS

Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area shall develop and project the socioeconomic data files Zonal Data One (ZDATA1) and Zonal Data Two (ZDATA2) for the Year 2045. If available, population projections developed by the Bureau of Business and Economic Research shall be used as control totals. The CONSULTANT shall be responsible for developing the Zonal Data Three (ZDATA3), Zonal Data Four (ZDATA4) and External-External Trips (EETRIPS) files for the Year 2045. The Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area, the North Central Florida Regional Planning Council, the Florida Department of Transportation, the City of Gainesville and Alachua County shall also participate in this effort. In addition, representatives from other municipalities in Alachua County shall also be invited to participate in developing this information.

The methodology used to project transit ridership developed for the Regional Transit System Transit Development Plan, the Regional Transit System Comprehensive Operational Analysis and the Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area adopted Year 2040 Plan shall be used to project future transit ridership. This data shall be distributed to existing and projected Regional Transit System routes.

The methodologies used to project bicycle usage, heavy vehicle activity and pedestrian activity shall be developed:

- consistent with multimodal policies in the Alachua County and City of Gainesville comprehensive plans; and
- in coordination with the Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area.

As appropriate, these factors shall be used to project future highway traffic and transit ridership.

2.9 FINANCIAL RESOURCES

The CONSULTANT shall be responsible for the accumulation and aggregation of information regarding existing and projected funding sources for modifications outlined in the Year 2045 Needs Plan that shall be used in the development of the Year 2045 Cost Feasible Plan. The CONSULTANT shall develop estimates of funds that are anticipated to be available to support Year 2045 Cost Feasible Plan implementation with the Florida Department of Transportation. Cost Feasible Plan dollars shall be reported in year of expenditure dollars.

2.9.1 IDENTIFY AND PROJECT AVAILABLE RESOURCES

The CONSULTANT shall obtain historical financial information relative to the funding of transportation services within the study area from appropriate federal, state and local agencies. Based on this historical information, and the planning data forecast prepared in the development of the zonal data (ZDATA), potential financial resources shall be forecasted for the Year 2045. The CONSULTANT shall report future revenues by funding category. Included in this information shall be financial information from the latest adopted Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area Transportation Improvement Program.

2.9.2 IDENTIFY SYSTEM OPERATIONS, MAINTENANCE AND CAPITAL COSTS

The CONSULTANT shall confirm revenues and costs related to system operations and maintenance activities covered in the long-range transportation plan. The financial plan shall contain system-level estimates of costs and revenue sources that are reasonably expected to be available to operate and maintain Federal-aid highways and public transportation.

2.9.3 IDENTIFY NEW PROJECT FUNDING SOURCES

The funding available for new projects is the difference between the funds reasonably expected to be available for transportation modifications minus the funds required to construct committed projects and those funds required to operate and maintain the transportation system. This difference shall be the funding available to develop the Year 2045 Long-Range Transportation Cost Feasible Plan.

2.9.4 IDENTIFY AND PROJECT POTENTIAL FUNDING SOURCES

Alternative funding sources such as bonds, transit fares, tolls, special taxing districts, impact fees and local option gas tax shall also be investigated and shall be included in the final report by the CONSULTANT as potential funding sources for projects not included in the Year 2045 Long-Range Transportation Cost Feasible Plan. All necessary financial resources from public and private sources that are reasonably expected to be made available to carry out the transportation plan shall be identified.

Should any of these alternatives sources be recommended to fund projects in the Year 2045 Long-Range Transportation Cost Feasible Plan, strategies to ensure the availability and commitment of these sources shall be included as part of the recommendation. These strategies must include a plan of action describing the steps necessary to enact the sources. The analysis shall discuss past successes or failures to secure similar funding sources.

If the long-range transportation plan assumes a new revenue source as part of the Year 2045 Long-Range Transportation Cost Feasible Plan, the following information shall be included in the text: the source shall be clearly explained; why it is considered to be reasonably available; when it will be available; what actions would need to be taken for the revenue to be available; and what would happen with projects if the revenue source was not available. If, for example, the most recent action of a governing body, or a referendum of the public, defeated a similar revenue source, then the new revenue source may not be included in the Year 2045 Long-Range Transportation Cost Feasible Plan unless the CONSULTANT can justify the revenue source and explain the difference between the action that failed and the action being proposed. This applies to all revenue sources in the long-range transportation plan (i.e. federal, state, local, private, etc.).

2.9.5 TRANSPORTATION SYSTEM OPERATIONS AND MAINTENANCE

The financial plan shall contain system-level estimates of costs and revenue sources that are reasonably expected to be available to adequately operate and maintain Federal-aid highways, as defined by 23 United States Code 101(a)(5), and public transportation, as defined by Title 49 United States Code Chapter 53. The system level costs for operations and maintenance shall be included in the main summary plan document, in addition to the technical report, as a short narrative for both the state and local systems. This material shall also discuss how this information was developed.

2.9.6 YEAR OF EXPENDITURE DOLLARS

The CONSULTANT shall use an inflation rate for revenue and cost estimates to reflect year of expenditure dollars based on reasonable financial principles and information.

2.10 TECHNICAL REPORT 2

The CONSULTANT shall document in Technical Report 2 the entire data development process detailed in Tasks 2.1 through 2.9. As noted earlier, documentation of all tasks, including the development of all maps, data and financial resources, shall be in the form of Technical Memoranda. These memoranda shall be delivered to the Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area within 30 days of completion of the task by the CONSULTANT. The technical memoranda shall clearly define all of the facility attributes and their purpose in the model.

The latest Florida Department of Transportation Revenue Forecast Handbook shall be used to develop an appendix that reflects the use of federal and state funding for non-capacity projects. This appendix shall be made part of Technical Report 2. Similar information shall be provided to document local and/or privately funded projects.

TASK 3 - DATA REVIEW AND VERIFICATION

The purpose of this task is to review the model inputs and outputs to ensure that the data sets are adequate for planning purposes. The CONSULTANT shall document completion of each task in a technical memorandum. All Technical Memoranda shall be delivered to the Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area within 30 days of completion of the task by the CONSULTANT.

3.1 REVIEW ZONAL DATA (ZDATA) INPUTS

The CONSULTANT shall review the zonal data (ZDATA) to verify that it is in the standardized model format, is accurate, logical and properly coded. This review shall include the use of Land Use Check (LUCHECK), or similar software programs, as well as random manual checks. All errors and or deviations shall be corrected and documented by the CONSULTANT. Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area shall be notified by the CONSULTANT of all errors/corrections/changes through a technical memorandum.

- 3.1.1 The traffic analysis zone structure shall be analyzed by the CONSULTANT based on the number of productions and attractions generated. The necessary changes shall be made by the CONSULTANT to ensure a homogeneous traffic analysis zone structure in which zones are compatible as to the number of trips generated. The socioeconomic data shall also be checked for statistical validity and ratio comparisons.
- 3.1.2 The CONSULTANT shall incorporate special generators identified in Task 2 and ensure compatibility with all other socioeconomic data.
- 3.1.3 The CONSULTANT shall make all necessary changes related to the adjustments made to traffic analysis zone boundaries, including all the zonal data (ZDATA) files and all the Network Files. This requirement shall be clearly documented. Maps shall be provided, where necessary, (such as with traffic analysis zone splits) along with changes in data. Also, the process of delineating traffic analysis zones splits shall also be documented. All activities under this task shall be coordinated with the Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area, the Florida Department of Transportation, the City of Gainesville and Alachua County.

3.2 REVIEW 2010 HIGHWAY AND TRANSIT NETWORK

The CONSULTANT shall review the Highway Network for coding errors in facility types, area types, number of lanes and coordinates.

- 3.2.1 The review of the Highway Network shall also include the review of all directions and turn prohibitors.
- 3.2.2 The CONSULTANT shall review the network to determine whether links should be added or deleted to obtain a better assignment and a better reflection of the actual travel pattern.
- 3.2.3 The CONSULTANT shall review the coding of Interstate facilities to ensure that directional links, ramp systems and interchanges are correctly coded.
- 3.2.4 Double digit coding shall be used for area and facility type identification on all links.

3.2.5 All necessary corrections shall be made by the CONSULTANT and fully documented and mapped.

3.2.6 All input files and other related transit files shall be reviewed and updated as needed.

3.2.7 The CONSULTANT shall maintain and update bicycle facility coding.

3.3 REVIEW 2015 TRAFFIC COUNT AND 2015 TRANSIT RIDERSHIP DATA

The CONSULTANT shall review all traffic counts for accuracy and consistency. All traffic counts shall represent peak season weekday traffic and shall be reviewed and approved by the Florida Department of Transportation, Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area, the City of Gainesville and Alachua County prior to model input.

3.3.1 The CONSULTANT shall review the location and number of counts available to ensure that screenlines, cutlines and cordon lines are fully represented. The CONSULTANT shall also review the number of counts available within each cell matrix for each facility type and area type for the purpose of validation/calibration.

3.3.2 The CONSULTANT shall be responsible for the review of all transit service data and any other input variables needed for the transit and access modes. This effort shall include a review and use of data developed for the Regional Transit System Transit Development Plan.

3.4 REVIEW TRIP GENERATION RATE

The CONSULTANT shall review trip rates contained in input files for the study area for multi-family and single-family dwelling units in the cell matrixes used in the Gainesville Urbanized Area Transportation System Model. Modifications to the standard trip generation shall be based on 2017 National Household Travel Survey Florida Add-on Program for Alachua County. Variable attraction rates shall be used to add flexibility to the model. All Tranplan-Fortran Trip Generation modules shall be converted into a Cube Voyager platform.

The CONSULTANT shall review the trip rate concerning the total number of productions and attractions in the area. All zonal data (ZDATA) files shall be double checked if the output of the generation step falls beyond the acceptable range of 10,000 trips per traffic analysis zone.

3.5 REVIEW TRIP LENGTH DISTRIBUTION

The CONSULTANT shall review, and if necessary update, the Friction Factor files used in the last plan update and review the trip length distribution curves for each trip purpose.

3.6 REVIEW AUTO OCCUPANCY RATES

The CONSULTANT shall compare the Gainesville Urbanized Area Transportation System model automobile occupancy rates to results of the 2015 American Community Survey and the Census Transportation Planning Package and revise where necessary.

3.7 REVIEW TRANSIT PARAMETERS

The CONSULTANT shall review and, if necessary, revise the Florida Standard Urban Transportation Modeling Structure system files to ensure that all modes, local bus, express bus and walk modes, currently used in the study area are accommodated. The CONSULTANT shall review and update the parameters used in the input files based on information obtained from the household travel behavior survey and on data used in other urbanized areas of similar size within Florida. The CONSULTANT shall coordinate this task with the Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area, Regional Transit System and the Florida Department of Transportation.

3.8 TECHNICAL REPORT 3

The CONSULTANT shall prepare a Technical Memorandum for each of the tasks under Task 3. All Technical Memoranda are to be delivered to the Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area within 30 days of completion of the task by the CONSULTANT. Once the review as outlined under Task 3 has been completed, the CONSULTANT shall document completion of Task 3 in Technical Report 3. This Technical Report may consist of an assemblage of the required Technical Memoranda.

TASK 4 - MODEL UPDATE AND VALIDATION

The purpose of this task is to update, validate and calibrate the 2015 Base Year Model with 2010 traffic counts and transit ridership figures. The CONSULTANT shall use the Gainesville Urbanized Area model developed by the Florida Department of Transportation and shall follow the process outlined below for the validation/updating and calibration purposes.

The end product of this task shall be a validated travel demand model capable of forecasting and evaluating future travel demand for alternative highway and transit networks using Cube Voyager as the primary Florida Standard Urban Transportation Modeling Structure engine. The entire validation process shall be documented in Technical Report 4 and shall include a summation of each of the related technical memoranda.

The CONSULTANT shall document the completion of each task in a Technical Memorandum. All Technical Memoranda shall be delivered to the Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area within 30 days of completion of the task by the CONSULTANT. Documentation shall include flow charts, a step-by-step procedural guide for the complete model set and identification of all parameters specific to the Gainesville Urbanized Area Transportation System travel model. Details shall be provided describing key decisions and conclusions from each step of the process, including trip generation, trip distribution, mode-split and traffic assignment to completion.

The acceptable or tolerable range/limits for the various parameters generated in the model validation procedures that follow shall be those established by the Florida Department of Transportation and Federal Highway Administration. These parameters are documented in the Florida Department of Transportation publication entitled *Florida Standard Urban Transportation Modeling Structure - Cube Framework Phase I Default Model Parameters*, dated September 27, 2007. The model calibration and validation process shall follow the procedures in the report entitled *Florida Standard Urban Transportation Modeling Structure - Cube Framework Phase II Model Calibration and Validation Standards Final Report*, dated October 2, 2008.

The CONSULTANT shall provide all associated files in a format compatible with Cube Voyager as the primary Florida Standard Urban Transportation Modeling Structure engine. All Tranplan modules shall be converted to a Cube Voyager environment. The CONSULTANT shall ensure that the final model has been converted to a fully operational Cube Voyager platform.

The CONSULTANT should note that the Florida Department of Transportation Central Office is engaged in procuring a new software platform for modeling applications. The timeline for this procurement is under review and discussion. However, the CONSULTANT should be prepared to work with the Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area and the Florida Department of Transportation with model conversion provided that the new software platform is available and distributed for use.

4.1 VALIDATE EXTERNAL TRIPS

The CONSULTANT shall review and, if necessary, update the Zonal Data Four (ZDATA4) and External-External Trips (EETRIPS) files developed for the last plan update.

4.1.1 The CONSULTANT shall perform a Base Year assignment using Year 2015 Zonal Data Four (ZDATA4) and External-External Trips (EETRIPS) files. Results of this model run shall be reviewed by the CONSULTANT to compare the volume/count ratio on the cordon line capturing the links connecting the external stations to actual counts.

- 4.1.2 The CONSULTANT shall compare the projected 2045 volumes at the external stations with the growth rates of the adjacent counties, as well as the historic growth rate at the count stations. Adjustments to the Zonal Data Four (ZDATA4) and External-External Trips (EETRIPS) files shall be made as necessary.

4.2 VALIDATE THE TRIP GENERATION MODEL

The CONSULTANT shall review and, if necessary, update the input files developed for the last plan update. All revisions shall be documented in the accompanying Technical Memorandum.

- 4.2.1 Based on the results of the distribution and assignment process, the CONSULTANT shall identify the special generators. The output of the Trip Generation Model shall be analyzed at the traffic analysis zone level.

At the traffic analysis zone level, the CONSULTANT shall review the total number of productions and attractions generated by the Year 2045 Model using the methodology described in the Florida Department of Transportation publication entitled *Florida Standard Urban Transportation Modeling Structure - Cube Framework Standard Trip Generation and Distribution Models, Draft Technical Memorandum No. 1 Trip Generation Review and Recommendations*, dated March 2009 to ensure a proper zone size and trip range per zone.

- 4.2.2 At the County level, the CONSULTANT shall conduct an analysis to ensure a direct correlation between land use and the relative number of productions and attractions. The total number of unadjusted attractions relative to the total number of adjusted attractions/productions shall be compared with the Institute of Transportation Engineers ratios and other national ratios, as well as the percentage of total trips, by purpose, of the total number of trips produced.
- 4.2.3 The statistical information provided as part of the Trip Generation Model output, such as total permanent population, total number of employees, number of dwelling units and truck generation by class, shall be checked against Census information and local data. In addition, all ratios, such as number of persons per dwelling unit, shall be checked against national ratios. Any major deviations from the above mentioned totals and/or ratios shall be traced back to the Zonal Data One (ZDATA1) and/or Zonal Data Two (ZDATA2) file(s) and researched, corrected and/or documented in the Technical Memorandum.

4.3 VALIDATE THE TRANSIT PATH BUILDING MODEL

The CONSULTANT shall review all of the traffic analysis zones reported in the output file as not having access to transit. These traffic analysis zones shall be double checked against the transit ridership information obtained by the CONSULTANT.

- 4.3.1 All transfer fares, transfer points, maximum and minimum limits on all parameters, such as waiting time, transfer time, walking distances, allowed mode transfers, park-and-ride connections and walk network connections, shall also be checked.
- 4.3.2 The CONSULTANT shall correct all errors in the morning and Midday Routecards and input files. All identified errors shall be corrected and documented in a Technical Memorandum. Further corrections may be necessary after the transit and highway assignments have been run.

4.4 VALIDATE THE TRIP DISTRIBUTION MODEL

The CONSULTANT shall validate the trip distribution model consistent with threshold parameters established by the Florida Department of Transportation in the report entitled *Florida Standard Urban Transportation Modeling Structure Cube Framework Phase 1* and consider suggestions from the report entitled *Florida Standard Urban Transportation Modeling Structure - Cube Framework Standard Trip Generation and Distribution Models, Draft Technical Memorandum No .2 Trip Distribution Review and Recommendations*, dated June 2009. This process shall be documented in a Technical Memorandum and identify major revisions to model input files necessary to meet the identified minimum thresholds.

- 4.4.1 The CONSULTANT shall review and document the percentage of intrazonal trips and ensure that no trip purpose exceeds the five percent threshold. If there are purposes that exceed this threshold, the CONSULTANT shall analyze the trip distribution patterns at the traffic analysis zone level.
- 4.4.2 The CONSULTANT shall summarize the output of the Distribution Model at the County level in order to identify the origin-destination pairs. This summary shall be checked for consistency with the land use in each traffic analysis zone.
- 4.4.3 The CONSULTANT shall review the assigned volumes on the links adjacent to special generators and check them against existing counts. Based on the magnitude of difference, the assignment shall be iteratively adjusted by adding or subtracting trips from the special generator in the Zonal Data Three (ZDATA3) file. The accepted method to code the Zonal Data Three (ZDATA3) file is described in the report entitled *Florida Standard Urban Transportation Modeling Structure - Cube Framework Standard Trip Generation and Distribution Models, Draft Technical Memorandum No. 1 Trip Generation Review and Recommendations*, dated March 2009.
- 4.4.4 Once the Zonal Data Three (ZDATA3) file is adjusted, the CONSULTANT shall check the volume/count ratio on all screenlines, cut lines and cordon lines. In addition, the volume/count ratios within all matrices shall be checked for all facility and area types using the standard procedures and ratios and ranges prescribed by the Florida Department of Transportation and the Federal Highway Administration.

The CONSULTANT shall then make all necessary adjustments to all network and/or data files to obtain a proper distribution as outlined in the Florida Standard Urban Transportation Modeling Structure documentation. All adjustments made to obtain a proper distribution shall be documented in the Technical Memorandum.

4.5 VALIDATE THE MODE CHOICE MODEL

- 4.5.1 The CONSULTANT shall validate a mode choice model that shall be capable of accurately dividing the generated trips among the different modes. This process shall accommodate the existing modes that include local bus, express bus, bus rapid transit and any additional modes that might need to be tested for the future networks.

- 4.5.2 The CONSULTANT shall review the auto occupancy factors, as well as the mode choice coefficients, making the necessary corrections to obtain a proper mode choice model using the standard procedures prescribed by the Florida Department of Transportation and the Federal Highway Administration. The process to obtain the mode choice coefficients, as well as a comparison with the variables used in the last plan update, shall be documented in a Technical Memorandum.
- 4.5.3 The CONSULTANT shall use the data from the household travel behavior survey conducted in Year 2008 by the Florida Department of Transportation to obtain coefficients related to the attractiveness of additional future transit modes. The information obtained in the survey regarding sample size, adjustment factors and the methodology used to obtain mode choice information shall also be documented in the Technical Memorandum.
- 4.6 VALIDATE THE TRANSIT ASSIGNMENT MODEL
- 4.6.1 The CONSULTANT shall be responsible for analyzing all transit-related data and making the necessary corrections to all the data files in order to obtain a proper transit assignment as provided for in the report entitled *New Florida Standard Urban Transportation Modeling Transit Modeling Framework*, updated March 26, 2010. Data developed for the Regional Transit System Transit Development Plan shall be used where appropriate.
- 4.6.2 The CONSULTANT shall summarize the number of trips assigned to the transit network and compare the results to the ridership data for the AM and Midday networks. The CONSULTANT shall review the total trips assigned, the total trips assigned by mode, the total trips assigned by corridor, the total number of transfers and the total number of transfers by mode. In addition, transit operating characteristics, such as average speed by mode, number of vehicles, total fare collected and other level of service information as provided in the output of the Transit Assignment Model, shall be reviewed and summarized.
- 4.6.3 The CONSULTANT shall document the procedures used in adjusting the Transit Assignment Model and all results in a Technical Memorandum.
- 4.7 VALIDATE THE HIGHWAY ASSIGNMENT MODEL
- 4.7.1 The CONSULTANT shall validate the highway assignment model using the current standard Florida Standard Urban Transportation Modeling Structure procedure. The CONSULTANT shall be responsible for all necessary corrections that need to be made to the data and network files in order to obtain a proper highway assignment as prescribed in Florida Department of Transportation and Federal Highway Administration documentation.
- 4.7.2 The CONSULTANT shall check the highway assignment against the actual ground counts throughout the highway network and check the accuracy of the highway assignment against the volume/count ratios grouped by facility type, area type, vehicle miles traveled, vehicle hours traveled and heavy vehicle factors.

The CONSULTANT shall refer to the existing documentation for allowable percentage of deviation of assignment versus count and compare to model results. If necessary, corrections to the appropriate files shall be made to obtain a proper assignment, consistent with the parameters defined by the Florida Department of Transportation and the Federal Highway Administration.

- 4.7.3 The CONSULTANT shall ensure accurate assignment of transit trips. The methodology used to achieve accurate assignment of transit trips shall first be reviewed and approved by the Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area and the Florida Department of Transportation and documented in a Technical Memorandum.
- 4.7.4 The CONSULTANT shall run color coded plots listing the volume/count ratios by link so that it can be reviewed for errors. The plots shall be color coded in four groups, as follows: less than 0.50, 0.51 to 0.85, 0.86 to 1.0 and over 1.0. If discrepancies are found in a particular area, and/or along certain corridors, the network shall be checked for errors, such as loadings of centroid connectors, possible errors in the Turn Prohibitor file and zonal data (ZDATA) file errors. The CONSULTANT shall make all necessary corrections to obtain a proper assignment.
- 4.8 FINAL MODEL VALIDATION
 - 4.8.1 The CONSULTANT shall perform a highway only run using the base year network and the socioeconomic dataset for Year 2045.
 - 4.8.2 The CONSULTANT shall summarize the trip generation and distribution outputs and compare them with the Base Year 2015 socioeconomic data. The results of the assignment for Year 2045 runs shall also be summarized using the evaluation program included as part of Florida Standard Urban Transportation Modeling Structure. Screenline projections, Base Year counts and historic growth rates shall also be compared.
 - 4.8.3 The CONSULTANT shall review the model output data with the Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area and the Florida Department of Transportation pointing out any inconsistencies or errors in the socioeconomic data. The results of this analysis shall be documented in a Technical Memorandum.
 - 4.8.4 The CONSULTANT shall also perform a transit only validation of the model (highway and transit).
- 4.9 GAINESVILLE URBANIZED AREA TRANSPORTATION MODEL TRANSIT PROCEDURE TECHNICAL MEMORANDUM

The CONSULTANT shall develop a technical memorandum for the Gainesville Urbanized Area Transportation System model transit procedure. The main purpose of this documentation is to describe any non-standard Florida Standard Urban Transportation Modeling Structure procedures used in the Gainesville Urbanized Area Transportation System model transit procedure. The CONSULTANT shall also provide descriptions on some standard Florida Standard Urban Transportation Modeling Structure executable files, input files and output files as necessary. The CONSULTANT shall incorporate the new Public Transit procedures noted in the documents entitled *Florida Standard Urban Transportation Modeling Structure Transit Modeling Framework*, updated March 26, 2010.

- 4.9.1 The consultant shall prepare a Technical Memorandum to describe the Gainesville Urbanized Area Transportation System transit model. This Memorandum shall include flow charts of Gainesville Urbanized Area Transportation System transit model, descriptions of all special executable files and descriptions of all special input and output files.

- 4.9.2 All executable files (includes both standard Florida Standard Urban Transportation Modeling Structure executables and non-standard Florida Standard Urban Transportation Modeling Structure executables) shall be included in the flow charts and all input and output files shall also be included in the flow charts.
- 4.9.3 For each of the nonstandard Florida Standard Urban Transportation Modeling Structure executable files, the CONSULTANT shall describe the function of the file, the purpose it serves in the process and required input and output files. All variables and parameters and their data format shall be described.

4.10 TECHNICAL REPORT 4

The CONSULTANT is responsible for documenting all activities related to the completion of Task 4 in Technical Report 4. The CONSULTANT shall prepare and deliver a Technical Memorandum for each task to the Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area within 30 days of completion of the task.

TASK 5 - YEAR 2045 TRANSPORTATION NEEDS PLAN AND COST FEASIBLE PLAN

The purpose of this task is to develop a long-range transportation plan that identifies facilities (including major roadways, transit, public transportation facilities, intercity bus facilities, multimodal and intermodal facilities, public ports, intercity bus operators, employer-based commuting programs, nonmotorized transportation facilities and intermodal connectors) that should function as an integrated metropolitan transportation system, giving emphasis to those facilities that serve important national and regional transportation functions. In addition, the long-range transportation plan shall preserve the existing transportation infrastructure, enhance economic competitiveness, improve travel choices to ensure mobility and integrate transportation and land use planning to provide for sustainable development and reduce greenhouse gas emissions.

The long-range transportation plan shall include the projected transportation demand in the planning area, the existing and proposed transportation facilities that function as an integrated system, operational and management strategies, consideration of the results of the latest available *Mobility Plan, Gainesville Metropolitan Area, Congestion Management Process* (Congestion Management Plan), strategies to preserve the existing and projected future transportation infrastructure, pedestrian and bicycle facilities, transportation and transit enhancement activities and regionally significant projects.

A regionally significant project is defined as a transportation project that is on a facility which serves regional transportation needs (such as access to and from the area outside the region; major activity centers in the region; major planned developments such as new retail malls, sports complexes or employment centers; or transportation terminals) and would normally be included in the modeling of the metropolitan area transportation network. At a minimum, this includes all principal arterial highways, all fixed guideway transit facilities and other transit facilities that offer a significant alternative to regional highway travel.

The first step in this process shall be the development of the existing plus committed (E+C) network and project list. Projects included in this list shall be developed from the Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area Transportation Improvement Program and the annual budgets of Alachua County and the City of Gainesville.

The second step in this process shall be development of a Year 2045 Long-Range Transportation Needs Plan that identifies highway and transit system modifications in response to model projected demands. In addition, this step shall include identification of needed:

- bicycle facility modifications based on implementation of the Alachua Countywide Bicycle Master Plan;
- pedestrian facility modifications based on the Alachua County and City of Gainesville comprehensive plans; and
- intelligent transportation system modifications based on City of Gainesville Traffic Operations recommendations.

The Year 2045 Long-Range Transportation Needs Plan shall include narrative descriptions of the major and more significant projects in the Plan. Any preliminary engineering studies and National Environmental Policy Act phases shall also be included in the long-range transportation plan.

5.1 NETWORK CODING, EDITING AND DEBUGGING

The CONSULTANT shall be responsible for the coding, review, editing and debugging of all networks leading to an adopted Year 2045 Long-Range Transportation Cost Feasible Plan. These networks shall include the Year 2019 Existing Plus Committed Network and the Year 2045 Long-Range Transportation Needs Plans and the Year 2045 Long-Range Transportation Cost Feasible Plan.

5.2 DEVELOPMENT OF THE EXISTING PLUS COMMITTED NETWORK

- 5.2.1 The Existing Plus Committed Network shall be developed by the CONSULTANT by coding all projects committed for construction to the Base Year Networks.
- 5.2.2 The CONSULTANT shall also review the Regional Transit System Transit Development Plan for transit related ridership and operational information.
- 5.2.3 Only projects for which federal, state, local or private funding for construction, or for the acquisition of right-of-way (and assumed to be completed and open to traffic in 2019), shall be identified and included in the Existing Plus Committed Network.
- 5.2.4 The CONSULTANT shall make an "all or nothing" assignment to the Existing Plus Committed Network and include a Year 2045 Trip Table to determine the deficiencies on the highway and transit networks that shall occur by the Year 2045.

5.3 DEVELOPMENT OF THE YEAR 2045 LONG-RANGE TRANSPORTATION NEEDS PLAN

- 5.3.1 The CONSULTANT shall use the following information to develop the Year 2045 Long-Range Transportation Needs Plan
 - A. the adopted Cost Feasible Plan identified in the Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area adopted Year 2040 Long-Range Transportation Plan;
 - B. the Mobility Plan- Gainesville Metropolitan Area Congestion Management Process (to identify problem areas to be addressed); and
 - C. the adopted Regional Transit System Transit Development Plan.
 - 5.3.2 The CONSULTANT shall further develop the Year 2045 Long-Range Transportation Needs Plan by testing multi-modal alternatives to satisfy person and freight travel demand deficiencies.
 - 5.3.3 A maximum of three alternative solutions to transportation deficiencies shall be developed as discussed in Sections 6.1.1 through 6.1.6. These alternatives shall consider the Vision Statement and the Goals and Objectives of this Update.
- ## 5.4 TECHNICAL REPORT 6
- 5.4.1 The identification, evaluation and selection of the Year 2045 Long-Range Transportation Needs Plan shall be documented in Technical Report 5.

TASK 6 - YEAR 2045 LONG-RANGE TRANSPORTATION PRELIMINARY AND CONSTRAINED NEEDS PLAN

6.1 DEVELOPMENT OF THE YEAR 2045 LONG-RANGE TRANSPORTATION PRELIMINARY AND CONSTRAINED NEEDS PLAN

- 6.1.1 A Year 2045 Long-Range Transportation Preliminary Needs Plan shall be developed by running 2045 zonal data (ZDATA) with the 2019 Existing Plus Committed Network and identifying facilities with a volume/capacity ratio of 0.9 or greater. The CONSULTANT and Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area shall review the facilities identified during this task. At the option of Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area, the CONSULTANT shall use National Cooperative Highway Research Program- 255 to smooth and adjust the travel demand outputs for identified facilities as necessary.
- 6.1.2 A Constrained Needs Plan shall be developed by identifying facilities in the Year 2045 Long-Range Transportation Preliminary Needs Plan which cannot be modified for any of the following reasons:
- A. The impact widening of the road would have on the community;
 - B. The geography or development of the area causes a project to be too difficult or expensive;
 - C. The road is already as wide as allowed by state or local policies;
 - D. The potential impact to a designated historic district; or
 - E. The potential impact on environmentally sensitive lands.

Constrained facilities shall be eliminated from the Year 2045 Long-Range Transportation Needs Plan prior to the development of subsequent alternatives.

- 6.1.3 One alternative network, New Corridor Emphasis, shall be created that includes a mix of highway and transit solutions, but shall primarily focus on new roadways and new transit service. This includes modifications that expand the grid network of roadways and expansion of transit service to the west and northwest portions of the study area.
- 6.1.4 A second alternative network, Existing Corridors Emphasis, shall be created that includes a mix of highway and transit solutions, but shall primarily focus on widening existing roadways and providing additional service on existing transit routes.
- 6.1.5 The CONSULTANT shall facilitate a public workshop on the two alternative solutions in order to gather broad-based input on proposed alternative modifications that may be used to develop the third alternative and also included in the Year 2045 Long-Range Transportation Needs Plan.
- 6.1.6 A third alternative network shall be created that includes a combination of effective approaches identified in the previous two tasks. This hybrid alternative shall also consider innovative demand management techniques, such as congestion pricing, high occupancy vehicle lanes, park-and-ride facilities and ridesharing programs.

- 6.1.7 In all three alternative networks discussed in the preceding sections, the CONSULTANT shall address non-motorized activity in the model using the pedestrian environment variable procedures discussed on pages 14 and 15 of Technical Report 4 from the adopted Gainesville Urbanized Area Year 2040 Long-Range Transportation Plan Update. This information shall be validated using bicycle and pedestrian counts taken by Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area and the University of Florida.
- 6.1.8 The CONSULTANT shall incorporate performance measures/metrics for system-wide operation, as well as more localized measures/metrics into the long-range transportation plan. These measures shall assess the effectiveness of the long-range transportation plan in increasing system performance. The CONSULTANT will obtain approval from the Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area of all performance measures that will be used in the long-range transportation plan.
- 6.1.9 The CONSULTANT shall employ context sensitive solutions for appropriate transportation corridors by using a collaborative approach that involves all stakeholders to identify needed transportation projects that preserve and enhance scenic, aesthetic, historic, community and environmental resources, while improving or maintaining safety, mobility and infrastructure conditions.
- 6.1.10 The CONSULTANT shall identify projects to include in the Year 2045 Long-Range Transportation Needs Plan that enhance intermodal connections between alternative modes of travel, such as automobile, bus rapid transit, streetcar, bicycle and pedestrian. In addition, the CONSULTANT shall identify transportation and transit enhancement activities, including consideration of the role that intercity buses may play in reducing congestion, pollution, and energy consumption in a cost-effective manner and strategies and investments that preserve and enhance intercity bus systems, including systems that are privately owned and operated, and including transportation alternatives and associated transit modifications.
- 6.1.11 The CONSULTANT shall coordinate the development of the Year 2045 Long-Range Transportation Needs Plan process, including selection of the final Year 2045 Needs Plan, with the Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area. The criteria by which the alternative needs plans shall be evaluated shall include:
- A. Those listed in the Urban Transportation Planning Model Update-Phase II, Task D, Develop Standard System Evaluation Model, and Task J, Transit Evaluation, as amended and other appropriate technical publications;
 - B. Requirements of Fixing America's Surface Transportation Act and appropriate rules issued by Federal Highway Administration and Federal Transit Administration; and
 - C. The Vision Statement and the Goals and Objectives established for this Study and documented in Technical Report 1.
- 6.1.12 Analysis of the Year 2045 Long-Range Transportation Needs Plan shall include sufficient information to understand the composition of the identified need. The CONSULTANT shall include an estimate of unfunded needs plan costs in base year dollars in the adopted long-range transportation plan. Estimated needs shall be reported by mode. The CONSULTANT shall confer with public transportation operators in developing estimates of funds involving public transportation services and/or facilities

- 6.1.13 The Year 2045 Long-Range Transportation Needs Plan shall include only transportation projects that are necessary to meet identified future transportation demand and advances the goals, objectives and policies of the Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area, the region and the state. Cost shall be given significant consideration when choosing among various alternatives (mode or alignment) to meet an identified need. Compelling policy or practical reasons for selecting alternatives that exceed the identified transportation need may include increasing the availability of premium transit options, overwhelming environmental benefit or the need to use compatible technology to expand an existing transportation asset.
- 6.1.14 The CONSULTANT will produce Purpose and Need statements and GIS shape files for major transportation or regionally significant capacity projects (including specific transit/Bus Rapid Transit alignment projects identified in the Year 2045 Long-Range Transportation Needs Plan. The CONSULTANT is responsible for coordinating this effort with the Project Manager and the Florida Department of Transportation to ensure the projects are entered into the Efficient Transportation Decision Making Process (ETDM) data base system.
- 6.1.15 Presentation materials, including graphics and support documentation for the Year 2045 Long-Range Transportation Needs Plan Alternatives, shall be prepared by the CONSULTANT and presented to the Citizens Advisory Committee and the Technical Advisory Committee.
- 6.1.16 A proposed Year 2045 Long-Range Transportation Needs Plan shall be developed by the Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area for presentation at a public hearing.
- 6.1.17 The CONSULTANT shall present the proposed Year 2045 Long-Range Transportation Needs Plan at the Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area public hearing and include a discussion of the process by which the plan was developed.

The CONSULTANT shall prepare presentation materials that shall include graphics, visual aids and handout materials. The CONSULTANT shall be responsible for preparing a transcript of the public hearing.

- 6.1.18 The CONSULTANT shall be responsible for meeting all of the Efficient Transportation Decision Making requirements identified in Sections 4.5.3 and 4.5.4 of the *Metropolitan Planning Organization Program Management Handbook*.

6.2 RANKING OF PROJECTS AND PROGRAMS IN THE YEAR 2045 LONG-RANGE TRANSPORTATION NEEDS PLAN

- 6.2.1 The CONSULTANT shall develop a methodology to rank projects and programs in the Year 2045 Long-Range Transportation Needs Plan and shall coordinate the ranking process with the Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area and the Florida Department of Transportation. All projects and programs included in the adopted Year 2045 Long-Range Transportation Needs Plan shall be ranked based on the following criteria:

- A. Output from the Congestion Management System;
- B. Existing level of service;

- C. Safety rankings that consider historic crash data, ability to manage traffic as an incoming emergency evacuation route from coastal counties and compatibility to non-motorized travel;
 - D. Consistency with the long-range transportation plan vision statement and the goals and objectives established through the public involvement process;
 - E. Forecast travel demand for the Year 2045;
 - F. Cost estimates and the scheduled availability of funding;
 - G. Assessment of the distribution of social, cultural and environmental benefits and adverse impacts of proposed long-range transportation plan projects on various socioeconomic groups; and
 - H. Economic development opportunities.
- 6.2.2 The CONSULTANT shall prepare and distribute a list of the project rankings to the Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area for review and approval. This list shall include project rank, as well as the ranking factors, for each proposed project. Any modifications made by the Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area shall be incorporated into the Adopted Year 2045 Long-Range Transportation Needs Plan.
- 6.2.3 The CONSULTANT shall facilitate a public workshop on the adopted Year 2045 Long-Range Transportation Needs Plan in order to gather broad-based input on proposed Needs Plan modifications for the development of the Year 2045 Long-Range Transportation Cost Feasible Plan.
- 6.3 INCORPORATING SAFETY INTO LONG-RANGE TRANSPORTATION PLANNING

The CONSULTANT shall test the theoretical framework of the *2008 NCHRP Report 546: Incorporating Safety into Long-Range Transportation Planning*. This includes developing and employing techniques, tactics and strategies that institutionalize safety as a decision and planning factor. In addition, the CONSULTANT shall: develop implementation steps to institutionalize safety within the long-range planning process; identify and address policy, fiscal and other constraints; and develop a list of action steps, or an implementation plan, for increasing the explicit considerations of safety in the long-range transportation planning products.

6.4 TECHNICAL REPORT 6

The identification, evaluation and selection of the Year 2045 Long-Range Transportation Preliminary and Constrained Needs Plan, all Needs Plan Alternatives and the Year 2045 Long-Range Transportation Needs Plan ranking shall be documented in Technical Report 6.

TASK 7 - DEVELOPMENT OF THE YEAR 2045 LONG-RANGE TRANSPORTATION COST FEASIBLE PLAN

Upon the approval of the Year 2045 Long-Range Transportation Needs Plan by the Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area, the proposed Year 2045 Long-Range Transportation Cost Feasible Plan shall be developed based on the financial resources identified in Task 2.9 and the cost analysis undertaken in Task 5.4. The CONSULTANT shall use evaluation criteria established earlier as a basis for ranking projects to be considered in the Cost Feasible Plan.

The CONSULTANT shall include an estimate of the cost of all projects and all phases, regardless of mode, in year of expenditure dollars. The CONSULTANT shall use Florida Department of Transportation adopted estimates of inflation to adjust costs from present day costs to year of expenditure costs. The CONSULTANT shall also clearly state in the proposed Year 2045 Long-Range Transportation Cost Feasible Plan the costs of operating and maintaining the existing and future transportation system.

Based upon this process, the CONSULTANT shall develop three Alternative Cost Feasible Plan Scenarios that shall establish the basis for identifying a final Year 2045 Long-Range Transportation Cost Feasible Plan. These scenarios shall be based on prior input received from the public and shall represent three unique proposals to address transportation system needs through the Year 2045. According to Federal Highway Administration and Florida Department of Transportation guidelines, the Year 2045 Long-Range Transportation Cost Feasible Plan must be the final plan adopted by the Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area. The development of the Year 2045 Long-Range Transportation Cost Feasible Plan shall be documented in Technical Report 7.

A Year 2045 Long-Range Transportation Cost Feasible Plan shall also be developed by ranking projects and eliminating those for which financial resources cannot be identified. This plan shall build upon the Needs Plan to select a list of projects that can be funded with available revenue sources.

The Year 2045 Long-Range Transportation Cost Feasible Plan shall include narrative descriptions of the major and more significant projects in the Plan. Any preliminary engineering studies and National Environmental Policy Act phases shall also be included in the long-range transportation plan.

A Technical Memorandum shall document completion of each task and shall be submitted to the Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area within 30 days of completion of the task.

7.1 DEVELOPMENT OF THE YEAR 2045 LONG-RANGE TRANSPORTATION COST FEASIBLE PLAN

The CONSULTANT shall use the following information to develop the Year 2045 Long-Range Transportation Cost Feasible Plan:

- 7.1.1 The CONSULTANT shall evaluate the effectiveness of the proposed Year 2045 Long-Range Transportation Cost Feasible Plan by comparing it with the Year 2045 Long-Range Transportation Needs Plan using the evaluation criteria established and documented in Technical Report 6. This evaluation shall include an impact analysis and identification of transportation programs/projects included in the Year 2045 Long-Range Transportation Needs Plan, for which there is no funding and eliminated in the Year 2045 Long-Range Transportation Cost Feasible Plan.

- 7.1.2 The CONSULTANT shall identify those projects which would allow the proposed Year 2045 Long-Range Transportation Cost Feasible Plan to accomplish the vision statement and the goals and objectives identified in Technical Report 6, but cannot be included because of their costs.
- 7.1.3 The CONSULTANT shall review the alternative funding sources identified in Technical Report 2 as a possible funding source(s) and make appropriate recommendations. Should any of these alternative sources be recommended to fund projects in the Cost Feasible Plan, strategies to ensure availability of these funds shall be included in the Year 2045 Long-Range Transportation Cost Feasible Plan. These strategies shall include a plan of action describing the steps necessary to enact the proposed revenue sources and a discussion of past successes or failures to secure similar funding sources, as appropriate.
- 7.1.4 The CONSULTANT shall collect adequate safety data in order to develop a Safety Element as part of the proposed Year 2045 Long-Range Transportation Cost Feasible Plan. As required in 23 Code of Federal Regulations 450.322, the Safety Element shall incorporate or summarize the priorities, goals, countermeasures or projects contained in the Strategic Highway Safety Plan required under 23 United States Code 148, and the Regional Transit System Public Transportation Agency Safety Plan as well as (as appropriate) and safeguard the personal security of all motorized and non-motorized users. The Safety Element shall also incorporate emergency relief and disaster preparedness plans and strategies and policies that support homeland security and established incident management plans (if there is one with local authorities).
- 7.1.5 As required by Fixing America's Surface Transportation Act, the CONSULTANT shall consider the following ten planning factors in developing the Year 2045 Long-Range Transportation Cost Feasible Plan:
- A. support the economic vitality of the metropolitan area, especially by enabling global competitiveness, productivity and efficiency;
 - B. increase the safety of the transportation system for motorized and nonmotorized users;
 - C. increase the security of the transportation system for motorized and nonmotorized users;
 - D. increase the accessibility and mobility of people and for freight;
 - E. protect and enhance the environment, promote energy conservation, improve the quality of life and promote consistency between transportation improvements and State and local planned growth and economic development patterns;
 - F. enhance the integration and connectivity of the transportation system, across and between modes, for people and freight;
 - G. promote efficient system management and operation;
 - H. emphasize the preservation of the existing transportation system;
 - I. Improve the resiliency and reliability of the transportation system and reduce or mitigate stormwater impacts of surface transportation; and
 - J. Enhance travel and tourism.
- 7.1.6 The CONSULTANT shall develop strategies for the proposed Year 2045 Long-Range Transportation Cost Feasible Plan that adequately address operations and management for both the transit and highway network. This shall include the development of performance measures for transportation systems operations and management, with the focus on mobility and safety.

7.1.7 The CONSULTANT shall ensure that the proposed Year 2045 Long-Range Transportation Cost Feasible Plan includes both long-range and short-range strategies/actions that lead to the development of an integrated multimodal transportation system to facilitate the safe efficient movement of people and goods in addressing current and future transportation demand.

7.1.8 The CONSULTANT shall also ensure that the proposed Year 2045 Long-Range Transportation Cost Feasible Plan includes the following as required by Fixing America's Surface Transportation Act, 23 Code of Federal Regulations 450.322 and Florida Statutes 339.175:

1. The projected transportation demand of persons and goods in the metropolitan planning area over the period of the transportation plan;
2. Existing and proposed transportation facilities (including major roadways, transit, multimodal and intermodal facilities, pedestrian walkways and bicycle facilities and intermodal connectors) that should function as an integrated metropolitan transportation system, giving emphasis to those facilities that serve important national and regional transportation functions, including Strategic Intermodal System and Transportation Regional Incentive Program facilities, over the period of the transportation plan;
3. Operational and management strategies to improve the performance of existing transportation facilities to relieve vehicular congestion and maximize the safety and mobility of people and goods;
4. Assessment of capital investment and other strategies necessary to:
 - Preserve the existing and projected future metropolitan transportation infrastructure, provide for multimodal capacity increases based on regional priorities and needs and reduce the vulnerability of the existing transportation infrastructure to natural disasters, including requirements for the operation, resurfacing, restoration, and rehabilitation of major roadways and requirements for the operation, maintenance, modernization, and rehabilitation of public transportation facilities; and
 - Make the most efficient use of existing transportation facilities to relieve vehicular congestion and maximize the mobility of people and goods.

The long-range transportation plan may consider projects and strategies that address areas or corridors where current or projected congestion threatens the efficient functioning of key elements of the metropolitan area transportation system;

5. All proposed modifications shall be described in sufficient detail to develop cost estimates;
6. 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 the environmental functions affected by the proposed Year 2045 Long-Range Transportation Cost Feasible Plan;
7. Pedestrian walkway and bicycle transportation facilities scenic easements, landscaping, historic preservation, mitigation of water pollution due to highway runoff, and control of outdoor advertising;
8. Consideration of strategies that integrate transportation and land use planning to provide for sustainable development and reduce greenhouse emissions; and

9. Comparison of the proposed Year 2045 Long-Range Transportation Cost Feasible Plan to the State conservation plans and maps or inventories of natural resources.
- 7.1.9 The CONSULTANT shall include in the long-range transportation plan performance measures and targets and a system performance report and shall integrate other performance based plans, if any, in the long-range transportation plan either directly or by reference. This material shall describe the performance measures and targets used in assessing system performance and progress in achieving the performance targets.
- 7.1.10 The CONSULTANT shall develop a matrix that shows the consistency between each Cost Feasible Plan project and the Vision Statement, Goals, Objectives and Policies.
- 7.1.11 The adopted Year 2045 Long-Range Transportation Cost Feasible Plan shall use Fiscal Year 2014/2015 as the base fiscal year and Fiscal Year 2044/2045 as the horizon fiscal year. The CONSULTANT shall show all the projects and project funding for the entire time period covered by the Cost Feasible Plan, from the base year to the horizon year.
- 7.1.12 Year 2045 Long-Range Transportation Cost Feasible Plan cost estimates shall be provided for the operations and maintenance activities for the entire timeframe of the long-range transportation plan. System level estimates for operations and maintenance costs shall be shown for each of the five-year cost bands. System level is interpreted to mean the system within the Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area planning area boundary.

Local agencies shall provide cost estimates for locally-maintained facilities covered in the Year 2045 Long-Range Transportation Cost Feasible Plan. The Florida Department of Transportation shall provide cost estimates for the state-maintained facilities covered in the Cost Feasible Plan. System level estimates at the Florida Department of Transportation District level are acceptable for the state-maintained facilities.

The Year 2045 Long-Range Transportation Cost Feasible Plan shall also identify the general source of funding for the operations and maintenance activities. Since operations and maintenance costs and related revenues are not available to balance the fiscal constraint of capital investment projects, a clear separation of costs for operations and maintenance activities from other grouped and/or regionally significant projects shall be shown in order to demonstrate fiscal constraint.
- 7.1.13 For total project costs, all phases of a project shall be described in sufficient detail to estimate and provide an estimated total project cost and explain how the project is expected to be implemented. Any project which will go beyond the horizon year of the long-range transportation plan shall include an explanation of the project elements beyond the horizon year and what phases/work will be performed beyond the horizon year of the plan. The costs of work and phases beyond the horizon year of the plan shall be estimated using year of expenditure methodologies and the estimated completion date may be described as a band (i.e. construction expected 2045-2050, \$40 million). If there is more than one phase remaining to be funded, these may be shown as a combined line item for the project (i.e. right-of-way/construction expected 2040-2055, \$50 million). This paragraph does not apply to routine system preservation or maintenance activities. Total project costs shall be shown for capacity expansion projects and for regionally significant projects.

- 7.1.14 The CONSULTANT shall ensure that the projects in the proposed Year 2045 Long-Range Transportation Cost Feasible Plan are listed in five-year band increments (based upon year of need). Estimates shall be summarized for the following five-year periods- 2020-2021, 2021-2025, 2026-2030, 2031-2035 and 2036-2045.
- 7.1.15 Revenues to support the costs associated with the work/phase shall be demonstrated. For a project to be included in the Year 2045 Long-Range Transportation Cost Feasible Plan, an estimate of the cost and source of funding for each phase of the project being funded (including the Project Development and Environment phase) must be included.

The phases to be shown in the Year 2045 Long-Range Transportation Cost Feasible Plan include preliminary engineering, right-of-way and construction (project development and environment and design phases may be combined into preliminary engineering). Boxed funds can be used as appropriate to finance projects. However, the individual projects using the box shall be listed, or at a minimum, shall be described in bulk in the Cost Feasible Plan (i.e. project development and environment for projects in Years 2021-2025).

- 7.1.16 Federal and state participation on projects in the Year 2045 Long-Range Transportation Cost Feasible Plan can be shown as a combined source for Cost Feasible Plan projects. Projects within the first ten years of the Cost Feasible Plan shall be notated or flagged to identify which projects are planned to be implemented with federal funds. Beyond the first ten-year period, specific federal funding notation is not required. Project funding, however, must be clearly labeled as a combined Federal/State source in the Year 2045 Long-Range Transportation Cost Feasible Plan.
- 7.1.17 For highway projects, the Year 2045 Long-Range Transportation Cost Feasible Plan shall describe the types of potential environmental mitigation activities and opportunities which are developed in consultation with federal and state wildlife, land management and regulatory agencies. This description shall occur at more of a system-wide level to identify areas where mitigation may be undertaken and what kinds of mitigation strategies, policies and/or programs may be used.

This description in the Year 2045 Long-Range Transportation Cost Feasible Plan shall identify broader environmental mitigation needs and opportunities of which individual transportation projects might later take advantage. The use of Efficient Transportation Decision Making alone is not environmental mitigation. The Efficient Transportation Decision Making effort is considered to be project screening and not a system-wide review. Documentation of the consultation with the relevant agencies shall be provided by the CONSULTANT.

For transit capital projects in the Year 2045 Long-Range Transportation Cost Feasible Plan, transit environmental benefits like reduction in single occupancy vehicle trips and vehicle miles traveled, reduction in greenhouse gases, pedestrian and bicycle linkages, transit oriented/compact development (which is more walkable) shall be stated within the broad parameters in the Year 2045 Long-Range Transportation Cost Feasible Plan. Preliminary engineering, final design, right-of-way, utility relocation and construction for transit capital projects shall be listed in the Year 2045 Long-Range Transportation Cost Feasible Plan.

- 7.1.18 For regionally significant projects in the Year 2045 Long-Range Transportation Cost Feasible Plan, the CONSULTANT shall include a purpose and need statement for the project. This purpose and need statement shall identify the rationale as to why the project warranted inclusion in the Cost Feasible Plan.

- 7.1.19 The CONSULTANT shall ensure that the Year 2045 Long-Range Transportation Cost Feasible Plan document is prepared in a manner that balances length, clarity and graphics to create a succinct, specific and attractive document that relays a distinct vision and plan in a user-friendly way.
- 7.1.20 The CONSULTANT shall prepare procedures which document how modifications to the long-range transportation plan are addressed after adoption. The procedures shall specifically explain what qualifies as a modification as opposed to an amendment. These procedures shall be included as part of the long-range transportation plan.

7.2 APPROVAL OF THE YEAR 2045 LONG-RANGE TRANSPORTATION COST FEASIBLE PLAN

The culmination of the long-range transportation plan process is the adoption of a fiscally constrained long-range transportation plan. This plan is a list of bicycle, highway, pedestrian and transit projects consisting of those modifications deemed most needed to address deficiencies in the transportation system, while also being financially feasible.

- 7.2.1 As soon as the proposed Year 2045 Long-Range Transportation Cost Feasible Plan is developed and reviewed by the Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area Citizens Advisory Committee, Technical Advisory Committee and Bicycle/Pedestrian Advisory Board, the CONSULTANT shall present the proposed Year 2045 Long-Range Transportation Cost Feasible Plan to the Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area at a public hearing.
- 7.2.2 The CONSULTANT shall ensure that the financial plan demonstrates how the adopted transportation plan can be implemented.
- 7.2.3 The CONSULTANT shall include an estimate of unfunded costs in base year dollars in the adopted long-range transportation plan.
- 7.2.4 The CONSULTANT shall present the proposed Year 2045 Long-Range Transportation Cost Feasible Plan at the Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area public hearing and include a discussion of the process by which the plan was developed. The CONSULTANT shall prepare presentation materials that include graphics, visual aids and handout materials. The CONSULTANT shall be responsible for preparing a transcript of the public hearing.
- 7.2.5 The Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area shall adopt the final Year 2045 Long-Range Transportation Cost Feasible Plan with such additional modifications as deemed appropriate. The adopted Year 2045 Long-Range Transportation Cost Feasible Plan shall be included in all supporting analyses, including all Geographic Information System files.
- 7.2.6 The Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area shall send copies of the adopted Year 2045 Long-Range Transportation Cost Feasible Plan to the Governor, the Florida Department of Transportation, the Federal Highway Administration and the Federal Transit Administration.

7.3 TECHNICAL REPORT 7

The development of the Year 2045 Long-Range Transportation Cost Feasible Plan shall be documented in Technical Report 7. Changes to the Cost Feasible Plan made in response to public comment, committee recommendation(s) or Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area action shall also be documented in this Technical Report.

PROJECT TIME LINE

The CONSULTANT shall develop a detailed project time line that identifies the development of each task and the delivery of work products. Additionally, the time line shall include identifiers that represent the approximate date of public presentations and public workshops. The CONSULTANT shall meet monthly with the Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area Project Manager to present work completed, confirm action items for the next work period and provide the Project Manager with a revised detailed project time line if changes are necessary.

In conjunction with its quarterly meeting with the Project Manager, the CONSULTANT shall provide a written monthly status report on the progress of each task being undertaken.

REQUIRED DOCUMENTS

The CONSULTANT shall ensure that all final documents are posted online, available for distribution and available through the Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area office no later than 90 days after adoption by the Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area.

The CONSULTANT shall provide to the Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area one clean, single-sided, full color paper original and Adobe Portable Data File and Microsoft Word electronic versions of materials to be presented:

- at meetings of the Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area and the Citizens Advisory Committee, Technical Advisory Committee and the Bicycle/Pedestrian Advisory Board;
- at public hearings on the Year 4040 Long-Range Transportation Needs Plan and Year 2045 Long-Range Transportation Cost Feasible Plan;
- at public workshops; and
- on the Year 2045 Long-Range Transportation Plan website.

A copy of all Powerpoint presentations shall be provided to the Project Manager and posted on the Year 2045 Long-Range Transportation Plan website. The Year 2045 Long-Range Transportation Plan website shall include an accommodation to collect public comments.

TECHNICAL REPORTS AND MEMORANDUMS

As outlined in preceding sections, technical documentation is required for all tasks. These include Technical Reports for each task and Technical Memoranda for each subtask. The CONSULTANT shall provide one clean, single-sided, full color draft of the Technical Memorandums for review by the Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area and the Citizens Advisory Committee, Technical Advisory Committee and the Bicycle/Pedestrian Advisory Board. Subsequent to this review, the CONSULTANT shall include all review comments and provide to the Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area one clean, single-sided, loose-leaf, full color paper original and Adobe Portable Data File (PDF) and Microsoft Word electronic versions of each final Technical Memorandum.

Copies of all final documents and maps shall be provided to the Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area on compact disks in editable text/graphic software format and Adobe Portable Data File (PDF) format.

The Adopted Year 2045 Long-Range Transportation Cost Feasible Plan shall be published or otherwise made readily available by the Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area for public review, including (to the maximum extent practicable) in electronically accessible formats and means, such as the internet.

FINAL REPORT

The long-range transportation plan shall be presented as a stand alone document and provided in a three-ring binder. The CONSULTANT shall provide the Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area fifteen (15) color printed copies, a copy of the final report on Compact Disc-ROM/DVD media, as well as produce one clean, single-sided, loose-leaf, full color final report.

SUMMARY REPORT

A summary report of twenty (20) or fewer pages shall accompany the final report. This summary report shall document the major steps and final results of the long-range transportation plan process and shall include the following sections:

- A. Introduction;
- B. Growth Forecasts;
- C. Vision Statement and the Goals and Objectives;
- D. Study Process;
- E. Year 2045 Cost Feasible Project Ranking; and
- F. Year 2045 Cost Feasible Project Map.

The CONSULTANT shall provide the Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area fifty (50) copies of the summary report as well as one clean, single-sided, loose-leaf, full color summary.

SUMMARY POSTER

The final long-range transportation plan report shall also include a folded, full color poster of the adopted Year 2045 Long-Range Transportation Cost Feasible Plan. Summary information in the poster shall include the vision statement, graphic representations of the Year 2045 Long-Range Transportation Cost Feasible Plan and a table representation of the Project Priority Ranking list. Other information may include the goals and objectives of the plan. The CONSULTANT shall provide to the Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area two-hundred (200) copies of the summary poster upon final approval of the Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area.

EXHIBIT B

REQUIRED FORMS

THIS PAGE LEFT BLANK INTENTIONALLY

**BID OPPORTUNITY LIST FOR PROFESSIONAL CONSULTANT SERVICES
AND CONTRACTUAL SERVICES**

Prime Contractor/Prime Consultant: _____

Address/Phone Number: _____

Procurement Number/Advertisement Number: _____

49 Code of Federal Regulations Part 26.11 The list is intended to be a listing of all firms that are participating, or attempting to participate, on Florida Department of Transportation-assisted contracts. The list must include all firms that bid on prime contracts, or bid or quote subcontracts and supplies materials on Florida Department of Transportation-assisted projects, including both Disadvantaged Business Enterprises (DBE) and non-Disadvantaged Business Enterprises (non-DBE). For consulting companies, this list must include all subconsultants contacting you and expressing an interest in teaming with you on a specific Florida Department of Transportation-assisted project. Prime contractors and consultants must provide information for Numbers 1, 2, 3 and 4, and should provide any information they have available on Numbers 5, 6, 7 and 8 for themselves, and their subcontractors and subconsultants.

- | | | |
|---------------------------------|---|--|
| 1. Federal Tax ID Number: _____ | 6. <input type="checkbox"/> DBE | 8. Annual Gross Receipts |
| 2. Firm Name: _____ | <input type="checkbox"/> Non-DBE | <input type="checkbox"/> Less than \$1 million |
| 3. Phone: _____ | | <input type="checkbox"/> Between \$1 - \$5 million |
| 4. Address: _____ | 7. <input type="checkbox"/> Subcontractor | <input type="checkbox"/> Between \$5 - \$10 million |
| _____ | <input type="checkbox"/> Subconsultant | <input type="checkbox"/> Between \$10 - \$15 million |
| _____ | | <input type="checkbox"/> More than \$15 million |
| 5. Year Firm Established: _____ | | |

-
- | | | |
|---------------------------------|---|--|
| 1. Federal Tax ID Number: _____ | 6. <input type="checkbox"/> DBE | 8. Annual Gross Receipts |
| 2. Firm Name: _____ | <input type="checkbox"/> Non-DBE | <input type="checkbox"/> Less than \$1 million |
| 3. Phone: _____ | | <input type="checkbox"/> Between \$1 - \$5 million |
| 4. Address: _____ | 7. <input type="checkbox"/> Subcontractor | <input type="checkbox"/> Between \$5 - \$10 million |
| _____ | <input type="checkbox"/> Subconsultant | <input type="checkbox"/> Between \$10 - \$15 million |
| _____ | | <input type="checkbox"/> More than \$15 million |
| 5. Year Firm Established: _____ | | |

-
- | | | |
|---------------------------------|---|--|
| 1. Federal Tax ID Number: _____ | 6. <input type="checkbox"/> DBE | 8. Annual Gross Receipts |
| 2. Firm Name: _____ | <input type="checkbox"/> Non-DBE | <input type="checkbox"/> Less than \$1 million |
| 3. Phone: _____ | | <input type="checkbox"/> Between \$1 - \$5 million |
| 4. Address: _____ | 7. <input type="checkbox"/> Subcontractor | <input type="checkbox"/> Between \$5 - \$10 million |
| _____ | <input type="checkbox"/> Subconsultant | <input type="checkbox"/> Between \$10 - \$15 million |
| _____ | | <input type="checkbox"/> More than \$15 million |
| 5. Year Firm Established: _____ | | |

-
- | | | |
|---------------------------------|---|--|
| 1. Federal Tax ID Number: _____ | 6. <input type="checkbox"/> DBE | 8. Annual Gross Receipts |
| 2. Firm Name: _____ | <input type="checkbox"/> Non-DBE | <input type="checkbox"/> Less than \$1 million |
| 3. Phone: _____ | | <input type="checkbox"/> Between \$1 - \$5 million |
| 4. Address: _____ | 7. <input type="checkbox"/> Subcontractor | <input type="checkbox"/> Between \$5 - \$10 million |
| _____ | <input type="checkbox"/> Subconsultant | <input type="checkbox"/> Between \$10 - \$15 million |
| _____ | | <input type="checkbox"/> More than \$15 million |
| 5. Year Firm Established: _____ | | |

AS APPLICABLE, PLEASE SUBMIT THIS FORM WITH YOUR:

WRITTEN PROPOSAL

THIS PAGE LEFT BLANK INTENTIONALLY

**CONFLICT OF INTEREST CERTIFICATION
FOR CONSULTANT/CONTRACTOR**

I certify that I have no present conflict of interest, that I have no knowledge of any conflict of interest that my firm may have, and that I will recuse myself from any capacity of decision making, approval, disapproval or recommendation on any contract if I have a conflict of interest or a potential of interest.

Consultants/Contractors are expected to safeguard their ability to make objective, fair and impartial decisions when performing work for the Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area and therefore may not accept benefits of any sort under circumstances in which it could be inferred by a reasonable observer that the benefit was intended to influence a pending or future decision of theirs, or to reward a past decision. Consultants performing work for the Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area should avoid any conduct (whether in the context of business, financial or social relationships) which might undermine the public trust, whether or not that conduct is unethical or lends itself to the appearance of ethical impropriety.

I realize that violation of the above mentioned standards could result in the termination of my work for the Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area.

Contract No./Project Description(s): _____

Each undersigned individual hereby attests that he/she has no conflicts of interest related to the contract(s) identified above.

Printed Names	Signatures	Date
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

THIS PAGE LEFT BLANK INTENTIONALLY

**CERTIFICATION REGARDING DEBARMENT, SUSPENSION, INELIGIBILITY
AND VOLUNTARY EXCLUSION FOR FEDERAL AID CONTRACTS**
(Compliance with 49CFR, Section 29.510)
(Appendix B Certification]

It is certified that neither the below identified firm nor its principals are presently suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any federal department or agency.

Name of Consultant:

By: _____ Date: _____
Authorized Signature

Title: _____

Instructions for Certification

1. By signing and submitting this certification with the proposal, the prospective lower tier participant is providing the certification set out below.
2. The certification in this clause is a material representation of fact upon which reliance was placed when this transaction was entered into. If it is later determined that the prospective lower tier participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the Department may pursue available remedies, including suspension and/or debarment.
3. The prospective lower tier participant shall provide immediate written notice to the person to which this proposal is submitted. If at any time the prospective lower tier participant learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.
4. The terms 'covered transaction', 'debarred', 'suspended', 'ineligible', 'lower tier covered transaction', 'participant', 'person', 'primary covered transaction', 'principal', 'proposal', and 'voluntarily excluded', as used in this clause, have the meanings set out in the Definitions and Coverage sections of the rules implementing Executive Order 12549. You may contact the person to which this proposal is being submitted for assistance in obtaining a copy of those regulations.
5. The prospective lower tier participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the Department or agency with which this transaction originated.
6. The prospective lower tier participant further agrees by submitting this proposal that it will include this clause titled "Appendix B: Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion - Lower Tier Covered Transaction", without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions.
7. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that it is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant may decide the method and frequency by which it determines the eligibility of its principals. Each participant may, but is not required to, check the Nonprocurement List.
8. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of a participant are not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.
9. Except for transactions authorized under paragraph 5 of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the Department may pursue available remedies, including suspension and/or debarment.

THIS PAGE LEFT BLANK INTENTIONALLY

CERTIFICATION FOR DISCLOSURE OF LOBBYING ACTIVITIES
ON FEDERAL-AID CONTRACTS
(Compliance with 49CFR, Section 20.100 (b))

The prospective participant certifies, by signing this certification, that to the best of his or her knowledge and belief:

(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 federal 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 of Lobbying Activities", in accordance with its instructions. (Standard Form-LLL can be obtained from the Florida Department of Transportation's Professional Services Administrator or Procurement Office.)

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.

The prospective participant also agrees by submitting his or her proposal that he or she shall require that the language of this certification be included in all lower tier subcontracts, which exceed \$100,000 and that all such subrecipients shall certify and disclose accordingly.

Name of Consultant:

By: _____ Date: _____ Authorized Signature

Title: _____

THIS PAGE LEFT BLANK INTENTIONALLY

TRUTH-IN-NEGOTIATION CERTIFICATION

For any lump-sum or cost-plus-a fixed-fee professional service contract over \$60,000, the Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area requires the Consultant to execute this certificate and include it with the submittal of the Written Proposal.

The Consultant hereby certifies that the covenants and warrants, wage rates and other factual unit costs supporting the compensation for this project's contract will be accurate, complete and current at the time of contracting.

The Consultant further agrees that the original contract price, and additions thereto, shall be adjusted to exclude any significant sums by which the Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area determines the contract price was increased due to inaccurate, incomplete or non-current wage rates and other factual unit costs. All such contract adjustments shall be made within one (1) year following the end of the contract. For purposes of this certificate, the end of the contract shall be deemed to be the date of final billing or acceptance of the work by the Metropolitan Transportation Planning Organization for the Gainesville Urbanized Area, whichever is later.

Name of Consultant

By: _____
Authorized Signature

Date

THIS PAGE LEFT BLANK INTENTIONALLY

DISADVANTAGED BUSINESS ENTERPRISE PARTICIPATION STATEMENT

Note: The Consultant is required to complete the following information and submit this form with the written proposal.

Project Description: _____

Consultant Name: _____

This consultant (is___) (is not___) a Florida Department of Transportation certified Disadvantaged Business Enterprise (DBE).

Expected percentage of contract fees to be subcontracted to DBE(s): _____ %

If the intention is to subcontract a portion of the contract fees to DBE(s), the proposed DBE sub-consultants are as follows:

DBE Sub-Consultants	Type of Work
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

By: _____

Title: _____

Name of Firm: _____

Date: _____

THIS PAGE LEFT BLANK INTENTIONALLY

SWORN STATEMENT PURSUANT TO SECTION 287.133c.(A),
FLORIDA STATUTES, ON PUBLIC ENTITY CRIMES

THIS FORM MUST BE SIGNED AND SWORN TO IN THE PRESENCE OF A NOTARY PUBLIC
OR OTHER OFFICIAL AUTHORIZED TO ADMINISTER OATHS.

1. This sworn statement is submitted to
(Print name of the public entity)

by _____ for _____
(Print individual's name and title) (Print name of entity submitting sworn statement)

whose business address is:

and (if applicable) its Federal Employer Identification Number is:

(If the entity has no Federal Employer Identification Number, include the Social Security Number of the individual signing this sworn statement:

_____.)

2. I understand that a (public entity crime as defined in Paragraph 287.133a.(g), Florida Statutes, means a violation of any state and federal law by a person with respect to and directly related to the transaction of business with any public entity or with an agency or political subdivision of any other state or of the United States, including, but not limited to, any bid or contract for goods and services to be provided to any public entity or any agency or political subdivision of any other state or of the United States and involving antitrust, fraud, theft, bribery, collusion, racketeering, conspiracy or material misrepresentation.

3. I understand the convicted or conviction as defined in paragraph 287.133a.(b), Florida Statutes, means a finding of guilt or a conviction of a public entity crime, with or without an adjudication of guilt, in any federal or state trial court of record relating to charges brought by indictment or information after July 1, 1989, as a result of a jury verdict, nonjury trial, or entry of a plea of guilty or nolo contendere.

4. I understand that an affiliate as defined in paragraph 287.133a.(a), Florida Statutes, means:

a. A predecessor or successor of a person convicted of a public entity crime; or

b. An entity under the control of any natural person who is active in the management of the entity who has been convicted of a public entity crime. The term (affiliate included those officers, directors, executives, partners, shareholders, employees, members and agents who are active in the management of an affiliate. The ownership by one person of shares constituting a controlling interest in another person, or a pooling of equipment or income among persons when not for fair market value an arm's length agreement, shall be a prima facie case that one person controls another person. A person who knowingly enters into a joint venture with a person who has been convicted of a public entity crime in Florida during the preceding 36 months shall be considered an affiliate.

5. I understand that a person as defined in Paragraph 287.133a.(e), Florida Statutes, means any natural person or entity organized under the laws of any state or of the United States with the legal power to enter into a binding contract and which bids or applies to bid on contracts for the provision of goods and services let by a public entity, or which otherwise transacts or applies to transact business with a public entity. The term person includes those officers, directors, executives, partners, shareholders, employees, members, and agents who are active in management of an entity.

6. Based on information and belief, the statement which I have marked below is true in relation to the entity submitting this sworn statement. [Indicate which statement applies.]

Neither the entity submitting this sworn statement, nor any of its officers, directors, executives, partners, shareholders, employees, members, or agents who are active in the management of the entity, nor any affiliate or the entity has been charged with an convicted of a public entity crime subsequent to July 1, 1989.

The entity this sworn statement, or one or more of its officers, directors, executives, partners, shareholders, employees, members, or agents who are active in the management of the entity, or an affiliate of the entity has been charged with and convicted of a public entity crime subsequent to July 1, 1989.

The entity submitting this sworn statement, or one or more of its officers, directors, executives, partners, shareholders, employees, members, or agents who are active in the management of the entity, or an affiliate of the entity has been charged with and convicted of a public entity crime subsequent to July 1, 1989. However, there has been a subsequent proceeding before a Hearing Officer of the State of Florida, Division or Administrative Hearing and the Final Order entered by the Hearing Officer determined that it was not in the public interest to place the entity submitting this sworn statement on the convicted vendor list. [Attach a copy of the final order.]

I UNDERSTAND THAT THE SUBMISSION OF THIS FORM TO THE CONTRACTING OFFICER FOR THE PUBLIC ENTITY IDENTIFIED IN PARAGRAPH I (ONE) ABOVE IS FOR THAT PUBLIC ENTITY ONLY AND, THAT THIS FORM IS VALID THROUGH DECEMBER 31 OR THE CALENDAR YEAR IN WHICH IT IS FILED. I ALSO UNDERSTAND THAT I AM REQUIRED TO INFORM THE PUBLIC ENTITY PRIOR TO ENTERING INTO A CONTRACT IN EXCESS OF THE THRESHOLD AMOUNT PROVIDED IN SECTION 287.017, FLORIDA STATUTES, FOR CATEGORY TWO OF ANY CHANGE IN THE INFORMATION CONTAINED IN THIS FORM.

Signature

Sworn to and subscribed before me this day of , 20 .

Personally known OR Produced Identification

Notary Public - State of Florida
My commission expires:

t:\scott\sk18\lrp\rfp_mtpo_apr23.docx

EXHIBIT C

Federal Strategies for Implementing Requirements for LRTP Updates for the Florida MPOs

January 2018

The Federal Highway Administration (FHWA), in cooperation with the Federal Transit Administration (FTA), developed this document to provide clarification to the Florida Department of Transportation (FDOT) and Florida's Metropolitan Planning Organizations (MPOs) regarding our expectations for meeting some of the requirements to be addressed in the next cycle of Long Range Transportation Plan (LRTP) updates. 23 CFR 450.306, 316 and 324 describe the basic requirements of the scope of the metropolitan transportation planning process, including a documented public participation plan, and development and content of the LRTPs respectively.

Addressing Current Requirements

The following information is presented to highlight notable areas for improvement, as well as those of potential concern, in order to proactively assist the MPOs in meeting federal planning requirements. These topic areas were selected based on a past history of issues observed with them through our general stewardship responsibilities, or through the oversight responsibilities via the Transportation Management Area (TMA) certification reviews. FHWA and FTA would be pleased to work with FDOT and the MPOs to discuss interpretation examples and/or statewide templates as appropriate to support implementation consistency. Additional areas of concern may be addressed on an individual MPO basis as needed throughout the LRTP development process. Citations noted refer to regulations published in the May 27, 2016 *Federal Register*.

Stakeholder Coordination and Input

Specific Public Involvement Strategies: MPOs are required to develop a written plan that documents and explicitly describes the procedures, strategies, and outcomes of stakeholder involvement in the planning process for all the MPOs products and processes, including, but not limited to, the timing of and timeframe for public/stakeholder input on the LRTP and its amendments. The MPOs should take the time to ensure their LRTP outreach strategies in their public participation plan (PPP), whether documented in an overall MPO PPP or one specifically for LRTP outreach, are clear, transparent, and accurately describes when and how their stakeholders can be involved in the process. To this end, having non-transportation professional(s) review the document and provide their understanding of when and how long the public comment periods occur for the various planning products can be helpful to ensure the information is being interpreted as intended. {23 CFR 450.316(a)(1)}

Public Involvement/Tribal/Resource Agency Consultation: Consultation on the MPO's planning products (including the LRTP) with the appropriate Indian Tribal governments and Federal land management agencies (when the planning area includes such lands) is required to be documented. The interaction documentation with these stakeholders needs to outline the roles, responsibilities and key decision points for consulting with other governments and agencies. MPOs should ensure that their plans and/or documentation include such procedures.

Additionally, State and local agencies responsible for land use management, natural resources, environmental protection, conservation and historic preservation are required to be consulted during the development of the

LRTP. This consultation consists of comparisons of state conservation plans/maps, and inventories of natural or historical resources with transportation plans, as appropriate and if available. This consultation process is also required to be documented, ideally in the public participation plan. Note that the Tribal governments and resource agencies mentioned above are also required to be involved in the development of the various consultation processes with these agencies. {23 CFR 450.316(a)(1), (c), (d), (e); 23 CFR 450.324(g)}

Measures of Effectiveness: Many MPOs have what appear to be very successful strategies for reaching out and incorporating public comment into their products and processes. However, there is no systematic confirmation or validation that the strategies are indeed working. MPOs are required to periodically review the effectiveness of the procedures and strategies described within the public participation plan (PPP). The PPP is also required to contain the specific measures used, the timing of, and the process used to evaluate the MPO's outreach and PPP strategies. Ideally, once the LRTP is developed, the outreach is evaluated, and then any needed changes to the outreach process are incorporated and documented in the PPP prior to the next LRTP update. {23 CFR 450.316(a)(1)(x)}

Fiscal Constraint

Project Phases: Projects in LRTPs are required to be described in enough detail to develop cost estimates in the LRTP financial plan that show how the projects will be implemented. For a project in the cost feasible plan, the phase(s) being funded and the cost must be documented. Additionally, the source of funding for each phase must be documented in the first 10 years of the LRTP. The phases to be shown in LRTPs include Preliminary Engineering (PE), Right of Way (ROW) and Construction. PE includes both the Project Development and Environment (PD&E) and Design phases. FHWA and FTA support the option of combining the PD&E and Design phases into an overall PE phase for these long range estimates. Boxed funds can be utilized as appropriate to document the financing of smaller projects, such as sidewalks, or early phases of projects, such as PD&E. However, the individual projects utilizing the box need to be listed, or at a minimum, sufficiently described in bulk in the LRTP (i.e. PD&E for projects in Years 2020-2025). {23 CFR 450.324(f)(9), (f)(11); 23 CFR 450.326(h)}

Full Time Span of LRTP (1st 5 Years): Plans are required to have at least a 20-year horizon. The effective date of the LRTP is the date of the MPO adoption of the plan. As such, the MPO is required to have an LRTP that includes projects from the date of adoption projected out at least 20 years from that date. The LRTP is a planning document that describes how the proposed projects will help achieve the regional vision. The Transportation Improvement Program (TIP), however, is a reflection of the investment priorities which are established in the LRTP. When adopting an updated LRTP, the projects in the previous LRTP are assessed and revised to acknowledge projects that have: 1) moved forward (these are typically removed from the updated LRTP), 2) shifted in time (these could be moved forward or back in implementation in the updated LRTP), and 3) been added or deleted based on the MPO's current priorities. The TIP is only a resource for determining which projects have moved forward. **The TIP, which is based on the previous LRTP, is not a substitute for the first 5 years of the updated LRTP.** Additionally, the TIP is a 4-year programming document that, in Florida, is adopted every year and thus expires annually. When LRTPs "include the TIP", it is a reference to a static and outdated document once the next TIP is incorporated into the Statewide Transportation Improvement Program (STIP), which occurs annually in Florida. Therefore, the MPOs will need to show all of the projects, phases, and

estimates from the adoption date through the horizon year of the LRTP, which is considered the entire time period of the LRTP. In addition, funding sources need to be shown for all projects from the adoption date through the first 10 years. {23 CFR 450.324(a); 23 CFR 450.326(a)}

Technical Topics

SHSP Consistency: We have come a long way from “What is the Strategic Highway Safety Plan (SHSP)?” to having LRTPs address the safety of all users throughout the planning process. We have proactively and successfully encouraged the MPOs to include a safety element in their LRTPs and be consistent with the Florida SHSP. The changes to the planning regulations now require the goals, objectives, performance measures and targets of the Highway Safety Improvement Program (HSIP), which includes the SHSP, to be integrated into the LRTPs either directly or by reference. However, the specific priorities, strategies, countermeasures and projects of the HSIP are not required to be integrated. We continue to strongly encourage their incorporation where appropriate. {23 CFR 450.306(b)(2), (d)(4)(ii); 23 CFR 324(h)}

The link to FDOT’s 2016 SHSP is: http://www.fdot.gov/safety/SHSP2012/FDOT_2016SHSP_Final.pdf

Freight: Florida’s MPOs have been proactive in assessing and incorporating their freight needs. Freight shippers and providers of freight transportation services have been required to be incorporated into the stakeholder outreach that the MPO uses throughout the planning process and the LRTP to address the projected demand of goods transportation on the network. Changes to the planning requirements now also encourage the consultation of agencies and officials planning for freight movements. With the National Highway Freight Program a core funding category of federal funds, having a solid basis for incorporating freight needs and projecting the freight demands will be key to the LRTP’s success for meeting its regional vision for the goods movement throughout the area. Additionally, the planning regulations now require the goals, objectives performance measures and targets of the State Freight Plan to be integrated into the LRTPs either directly or by reference. While freight is one of the planning factors, it deserves special emphasis, and will need to play a more prominent role in future LRTPs. The MPOs need to show a concerted effort to incorporate freight stakeholders and strategies into the next LRTP. {23 CFR 450.306(b)(4), (b)(6); 23 CFR 450.316(a); 23 CFR 450.324 (b), (f)(1), (f)(5)}

Environmental Mitigation/Consultation: For highway projects, the LRTP must include a discussion on the types of potential environmental mitigation activities and potential areas to carry out these activities. The environmental mitigation discussion in the LRTP must be developed in consultation with Federal, State and Tribal wildlife, land management and regulatory agencies. The LRTP discussion can be at a system-wide level to identify areas where mitigation may be undertaken (perhaps illustrated on a map) and what kinds of mitigation strategies, policies and/or programs may be used when these environmental areas are affected by projects in the LRTP. This discussion in the LRTP would identify broader environmental mitigation needs and opportunities that individual transportation projects might take advantage of later. MPOs should be aware that the use of ETDM alone is not environmental mitigation. The use of ETDM is considered project screening and is not a system-wide review of the planning area. Documentation of the consultation with the relevant agencies should be maintained by the MPO. {23 CFR 450.324(f)(10)}

Congestion Management Process: The management of congestion has played an increasing role in the operations of transportation networks. One of the key activities of the process is to evaluate the effectiveness of the strategies the process produces. The MPO must demonstrate that the congestion management process is incorporated into the planning process. The process the MPO uses can be documented separately or in conjunction with the LRTP. The process is required to: 1) provide for the safe and effective integrated management and operations of the transportation network; 2) identify the acceptable level of performance; 3) identify methods to monitor and evaluate performance; 4) define objectives; 5) establish a coordinated data collection program; 6) identify and evaluate strategy benefits; 7) identify an implementation schedule; and 8) periodically assess the effectiveness of the strategies. The congestion management process should result in multimodal system measures and strategies that are reflected in the LRTP and TIP. The new planning requirements provide for the optional development of a Congestion Management Plan (CMP) that includes projects and strategies that will be considered in the TIP. This optional plan is different than documenting the processes that the MPO uses to address the congestion management. The CMP, if used, needs to 1) develop regional goals, 2) identify existing transportation services and commuter programs, 3) identify proposed projects, and 4) be developed in consultation with entities that provide job access reverse commute or job-related services to low-income individuals. {23 CFR 450.322}

Americans with Disabilities Act (ADA) Transition Plans: Government agencies with 50 or more employees that have control over pedestrian rights of way (PROW) must have transition plans for ADA. Agencies with less than 50 employees that have control over PROW must have an ADA Program Access Plan, describing how they provide access for those with disabilities to programs, services and activities. MPOs that are a part of a public agency that has these responsibilities need to have a heightened awareness for these responsibilities and plans. However, all MPOs play an important role in ADA compliance by assisting agencies with sidewalk inventories, gap studies, etc. MPOs can also go a good deal further, but should at a minimum serve as a resource for information and technical assistance in local government compliance with ADA. {28 CFR 35.105; 28 CFR 35.150(d)}

Administrative Topics

LRTP Documentation/Final Board Approval: The date the MPO Board adopts the LRTP is the effective date of the plan. The contents of the product that the MPO adopts on that date includes at a minimum: 1) the current and projected demand of persons and goods; 2) existing and proposed facilities that serve transportation functions; 3) a description of performance measures and targets; 4) a system performance report; 5) operational and management strategies; 6) consideration of the results of the congestion management process; 7) assessment of capital investment and other strategies to preserve existing and future infrastructure; 8) transportation and transit enhancement activities; 9) description of proposed improvements in sufficient detail to develop cost estimates; 10) discussion of potential environmental mitigation strategies and areas to carry out the activities; 11) a cost feasible financial plan that demonstrates how the proposed projects can be implemented and includes system level operation and maintenance revenues and costs; and 12) pedestrian walkway and bicycle transportation facilities which are required to be considered, where appropriate, in conjunction with all new construction and reconstruction of transportation facilities, except where bicycle and pedestrian use are not permitted. FHWA and FTA expect that at the time the MPO Board adopts the LRTP, a

substantial amount of LRTP analysis and documentation will have been completed, and all final documentation will be available for distribution no later than 90 days after the plan's adoption. The Board and its advisory committees, as well as the public, should have periodically had opportunities to review and comment on products from interim tasks and reports that culminated into what is referred to as the final Plan. Finalizing the LRTP and its supporting documentation is the last activity in a lengthy process. All final documents are required to be made readily available for public review and to be made available electronically. The final document(s) should be posted online and available through the MPO office no later than 90 days after adoption date. The MPOs' schedules for this round of LRTP development are expected to allow ample time for the Board to adopt the final LRTP product no later than 5 years from the MPOs' adoption of the previous LRTP. These adoption dates have recently been confirmed with each MPO. {23 CFR 450.324 (a), (c), (f), (k)}

LRTP & STIP/TIP Consistency: The STIP and TIPs must be consistent with the relevant LRTPs as they are developed. FHWA and FTA staff will be checking for this consistency during the STIP approval process. The results of previous reviews indicate that emphasis is still needed to ensure that projects are accurately reflected in both the TIP and STIP and that these projects are flowing from and are found to be consistent with the MPO's LRTP. Additionally, when amendments to the STIP/TIP are made, the projects must also be consistent with the LRTP from which they are derived. When STIP/TIP amendments are received by FHWA and FTA, they will be reviewed for consistency with the applicable LRTP. Projects with inconsistencies between the STIP/TIP and the respective LRTP will not be approved for use of federal funds or federal action until the issue is addressed. {23 CFR 450.330; 23 CFR 450.218(b)}.

New Requirements

This section describes topics that may not currently be required by federal laws and rules to be addressed in LRTPs. As such, MPOs are not required to include these considerations in their current planning processes and plans. However, they will be required to be addressed for the next LRTP.

New Planning Factors: The MPO is required to address several planning factors as a part of its planning processes. The degree of consideration and analysis of the factors should be based on the scale and complexity of the area's issues and will vary depending on the unique conditions of the area. Efforts should be made to think through and carefully consider how to address each factor. There are two new planning factors that need to be considered in the next LRTPs: 1) improving the resiliency and reliability of the transportation system and reducing or mitigating stormwater impacts of surface transportation; and 2) enhancing travel and tourism. Florida has a strong history of proactively addressing these transportation areas. These experiences can be drawn upon to incorporate the new factors into the planning processes. {23 CFR 450.306(b)9, (b)(10), (c)}

Transportation Performance Management: As funding for transportation capacity projects becomes more limited, increasing emphasis will be placed on maximizing the efficiency and effectiveness of our current transportation system and the resources that build and maintain the system. As such, a performance-based approach to transportation decision making will be required for the FDOT and MPOs. As the MPOs and FDOT are aware, the performance measures required to be addressed in the LRTPs are documented in final rules that were published in the Federal Register on March 15, 2016 and January 18, 2017. The MPOs will set their targets

in accordance with the schedule established in these final rules. FDOT and the MPOs have flexibility as to the documentation and process used for setting the targets, as long as the targets are made publicly available once they are set. The next LRTPs (when updated or amended after May 27, 2018) will be required to describe the performance measures and the targets the MPO has selected for assessing the performance of the transportation system.

A system performance report will also be required to be included in the LRTPs. The report is a tool that evaluates and updates the condition of the transportation system in relation to the performance measures and targets. While guidance is still being developed, the report would include for each performance measure information such as: the target set; the baseline condition at the start of the evaluation cycle; the progress achieved in meeting the targets; and a trend-type comparison of progress with previous performance reports. Depending on the timing of the LRTP, the date of the target setting, and length of the evaluation cycle, the LRTPs initially amended/updated after May 27, 2018 may not have a full cycle of specific information to include. However, the LRTPs need to include the data that is available and discuss how the MPO plans to use the full information once it does become available. We recognize that these initial LRTPs will be developed during a transition period, and commit to working with the MPOs to ensure that the regulations are reasonably being addressed. {23 CFR 450.306(d)(4); 23 CFR 450.324(f)(3), (f)(4)}

For more TPM information and the tools tailored for Florida partners, please go to:

<https://www.fhwa.dot.gov/fldiv/tpm.cfm>

Multimodal Feasibility: The transportation plan shall include both long-range and short-range strategies/actions that provide for the development of an integrated multimodal transportation system (including accessible pedestrian walkways and bicycle transportation facilities) to facilitate the safe and efficient movement of people and goods in addressing current and future transportation demand. {23 CFR 450.324}

Transit Asset Management: The MPO is required to set performance targets for each performance measure, per 23 CFR 450.306(d). Those performance targets must be established 180 days after the transit agency established their performance targets. Transit agencies are required to set their performance targets by January 1, 2017. If there are multiple asset classes offered in the metropolitan planning area, the MPO should set targets for each asset class. Planning for TAM/Roles and Responsibilities for MPOs and State DOTs can be found on the FTA website: <https://cms.fta.dot.gov/sites/fta.dot.gov/files/planning-tam-fact-sheet.pdf>

Emerging Issues

This section describes topics that may not currently be required by federal laws and rules to be addressed in LRTPs. As such, MPOs are not required to include these considerations in their current planning processes and plans. These issues are receiving considerable attention in national discussions. Each MPO has the discretion to determine whether to address these emerging topics in their LRTP at this time and the appropriate level of detail. Beginning to address these issues early on may potentially minimize the level of effort needed to achieve future compliance.

Mobility on Demand (MOD): Mobility on Demand (MOD) is an innovative, user-focused approach which leverages emerging mobility services, integrated transit networks and operations, real-time data, connected travelers, and cooperative Intelligent Transportation Systems (ITS) to allow for a more traveler-centric, transportation system- of-systems approach, providing improved mobility options to all travelers and users of the system in an efficient and safe manner. Automated vehicles (AV), now being called Automated Driving Systems (ADS) and Connected Vehicles (CV) are two components of the overall MOD model.

ADS (also known as self-driving, driverless, or robotic) are vehicles in which some aspect of vehicle control is automated by the car. For example, adaptive cruise control, where the vehicle automatically speeds up, slows down, or stops in response to other vehicle movements in the traffic stream is an automated vehicle function. Connectivity is an important input to realizing the full potential benefits and broad-scale implementation of automated vehicles. The preliminary five-part formal classification system for ADS is:

- Level 0: The human driver is in complete control of all functions of the car.
- Level 1: A single vehicle function is automated.
- Level 2: More than one function is automated at the same time (e.g., steering and acceleration), but the driver must remain constantly attentive.
- Level 3: The driving functions are sufficiently automated that the driver can safely engage in other activities.
- Level 4: The car can drive itself without a human driver

CV includes technology that will enable cars, buses, trucks, trains, roads and other infrastructure, and our smartphones and other devices to “talk” to one another. Cars on the highway, for example, would use short-range radio signals to communicate with each other so every vehicle on the road would be aware of where other nearby vehicles are. Drivers would receive notifications and alerts of dangerous situations, such as someone about to run a red light as they’re nearing an intersection or an oncoming car, out of sight beyond a curve, swerving into their lane to avoid an object on the road.

Rapid advances in technology mean that these types of systems may be coming on line during the horizon of the next LRTPs. While these technologies when fully implemented will provide more opportunities to operate the transportation system better, the infrastructure needed to do so and the transition time for implementation is an area that the MPO can start to address in this next round of LRTP updates.

Resources for additional information:

Mobility on Demand: <https://www.its.dot.gov/factsheets/pdf/MobilityonDemand.pdf>

Autonomous Vehicles: https://www.its.dot.gov/research_areas/pdf/WhitePaper_automation.pdf

Connected Vehicles: https://www.its.dot.gov/cv_basics/index.htm

Transportation Planning Capacity Building Connected Vehicle Focus Area:

https://planning.dot.gov/focus_connectedVehicle.asp

Proactive Improvements

This section describes topics that are not currently required by federal laws and rules to be addressed in LRTPs nor are they required by the May 27, 2016 regulation changes. As such, MPOs are not required to include these considerations in their current planning processes and plans. These areas are intended to be a proactive change in the LRTPs to help Florida continue to make positive strides in long range planning.

New Consultation: There are two new types of agencies that the MPO should consult with when developing the LRTPs: agencies that are responsible for tourism and those that are responsible for natural disaster risk reduction. These consultations are a natural evolution of implementing the new planning factors for which Florida has experience in doing. {23 CFR 450.316(b)}

Summary of Public Involvement Strategies: Seeking out and considering the needs of traditionally underserved populations is a key part of any public involvement process. When the MPO carries out stakeholder involvement, they may use a variety of strategies. These strategies ultimately demonstrate that their planning process is consistent with Title VI and other federal anti-discrimination provisions in the development of the LRTP. In order to clearly demonstrate this consistency, the MPOs should summarize the outreach information. This information should be derived from the MPO's public involvement plan elements. The public involvement summary should be supported by more detailed information, such as the specific strategies used, feedback received and feedback responses, findings, etc. The detailed information should then be referenced and included in the form of a technical memorandum or report that can be appended to the LRTP, or included in a separate, standalone document that is also available for public review in support of the LRTP. {23 CFR 450.316(a)(1)(vii)}

Impact Analysis/Data Validation: In accordance with Title VI, MPOs need to have and document a proactive, effective public involvement process that includes outreach to low income, minorities and traditionally underserved populations, as well as all other citizens of the metropolitan area, throughout the transportation planning process. Using this process, the LRTP needs to document the overall transportation needs of the metropolitan area and be able to demonstrate how public feedback and input helped shape the resulting plan. Where some MPOs struggle in using data to assess likely impacts, other MPOs attempt to use data to assess the needs. Some look at a dollar spread among minority/non-minority areas to determine equity. This approach is probably not the best method to use, since higher dollar amounts might indicate capacity projects when the community needs more pedestrian connectivity, for example. We suggest using the data tools found at https://www.fhwa.dot.gov/environment/environmental_justice/resources/data_tools/. Additionally, as time passes it becomes more important to validate the 2010 census data being used. School Boards, emergency service agencies, tax rolls and staff knowledge are all good sources to ensure data quality. {23 CFR 450.316(a)(1)(vii); 23 CFR 420.324(e)}

FDOT Revenue Forecast: To help stakeholders understand the financial information and analysis that goes into identifying the revenues for the MPO, we recommend the MPO include FDOT's Revenue Forecast in the appendices that support the LRTP. {23 CFR 450.324(f)(11)(ii)}

Sustainability and Livability in Context: We encourage the MPO to implement strategies that contribute to comprehensive livability programs and advance projects with multimodal connectivity. MPO policies and practices that support an integrated surface transportation system for all users that is efficient, equitable, safe, and environmentally sustainable will improve transportation choices and connectivity for all users especially those walking and bicycling. Building partnerships with traditional and nontraditional stakeholders will facilitate the development and implementation of transportation projects that improve integration, connectivity, accessibility, safety and convenience for all users. The MPOs are encouraged to identify and suggest contextual solutions for appropriate transportation corridors within their area and utilize the flexibilities provided in the federal funding programs to improve the transportation network for all users. {23 CFR 450.306(b)}

Scenario Planning: The new planning requirements describe using multiple scenarios for consideration by the MPO in the development of the LRTP. If the MPO chooses to develop these scenarios, they are encouraged to consider a number of factors including potential regional investment strategies, assumed distribution of population and employment, a scenario that maintains baseline conditions for identified performance measures, a scenario that improves the baseline conditions, revenue constrained scenarios, and include estimated costs and potential revenue available to support each scenario. {23 CFR 450.324(i)}

4.14 LRTP Checklist

The Long Range Transportation Plan (LRTP) Checklist presented below is not required to be used when reviewing the LRTP. This is simply a tool for Districts and MPOs to use when reviewing or drafting the LRTP to assist in meeting requirements in Federal and State regulation and statute for LRTPs.

FDOT updated this checklist to reflect passage of Fixing America's Surface Transportation (FAST) Act in 2015, the FHWA/FTA Final Rule on Statewide and Nonmetropolitan Transportation Planning and Metropolitan Transportation Planning, FHWA/FTA LRTP expectations and guidelines, and MPOAC LRTP guidelines.

The following key is used in the checklist:

- The “A” items relate to the Code of Federal Regulations (C.F.R.) that address the LRTP, public participation, and consultation.
- The “B” items relate to State statutory requirements for LRTPs that are not otherwise addressed in Federal statute or regulation.
- The “C” items relate to *Federal Strategies for Implementing Requirements for LRTP Update for the Florida MPOs* (November 2012). FHWA and FTA distributed this document to highlight notable areas for improvement and assist MPOs in meeting Federal planning requirements.
 - » The unnumbered items allow for reporting on topics in the *Emerging Issues and Proactive Improvements* sections. MPOs are not required to include consideration of these topics in their current planning processes and plans; therefore, they have the option of deleting them.
- The “D” items are from the MPOAC-adopted *Financial Guidelines for MPO 2040 Long Range Plans* (January 2013). These are guidelines rather than requirements; therefore, MPOs are encouraged to report on these items, but have the option to not do so.

Where there is overlap among the items in the checklist, reviewers may reference previous checklist comments instead of repeating information.

Requirements in Federal Regulations		Where and How Addressed
<u>23 C.F.R. Part 450, Subpart C – Metropolitan Transportation Planning and Programming</u>		
A-1	Does the plan cover a 20-year horizon from the date of adoption? 23 C.F.R. 450.324(a)	
A-2	Does the plan consider the 10 planning factors described in 23 C.F.R. 450.306(a)? 23 C.F.R. 450.324(a)	
A-3	Does the plan include both long-range and short-range strategies/actions that provide for the development of an integrated multimodal transportation system (including accessible pedestrian walkways and bicycle transportation facilities) to facilitate the safe and efficient movement of people and goods in addressing current and future transportation demand? 23 C.F.R. 450.324(b)	
A-4	Was the requirement to update the plan at least every five years met? 23 C.F.R. 450.324(d)	
A-5	Was the plan updated based on the latest available estimates and assumptions for population, land use, travel, employment, congestion, and economic activity? 23 C.F.R. 450.324(f)	

Requirements in Federal Regulations		Where and How Addressed
A-6	Does the plan identify the current and projected transportation demand of persons and goods in the metropolitan planning area over the period of the plan? 23 C.F.R. 450.324(g)(1)	
A-7	Does the plan identify existing and proposed transportation facilities (including major roadways, public transportation facilities, intercity bus facilities, multimodal and intermodal facilities, non-motorized transportation facilities (e.g., pedestrian walkways and bicycle facilities), and intermodal connectors) that should function as an integrated metropolitan transportation system, giving emphasis to those facilities that serve important national and regional transportation functions over the period of the transportation plan? 23 C.F.R. 450.324(g)(2)	
A-8	Does the plan include operational and management strategies to improve the performance of existing transportation facilities to relieve vehicular congestion and maximize the safety and mobility of people and goods? 23 C.F.R. 450.324(g)(5)	

Requirements in Federal Regulations		Where and How Addressed
A-9	<p>For TMAs, are the results of the congestion management process considered in the plan? If so, how are they considered?</p> <p>23 C.F.R. 450.324(g)(6), see also 23 U.S.C. 134(k)(3)(A), 49 U.S.C. 5303(k)(3)(A)</p>	
A-10	<p>Does the plan include an assessment of capital investment and other strategies to preserve the existing and projected future metropolitan transportation infrastructure, provide for multimodal capacity increases based on regional priorities and needs, and reduce the vulnerability of the existing transportation infrastructure to natural disasters?</p> <p>23 C.F.R. 450.324(g)(7)</p>	
A-11	<p>Does the plan include transportation and transit enhancement activities, including consideration of the role that intercity buses may play in reducing congestion, pollution, and energy consumption in a cost-effective manner and strategies and investments that preserve and enhance intercity bus systems, including systems that are privately owned and operated, and including transportation alternatives, as defined in 23 U.S.C. 101(a), and associated transit improvements, as described in 49 U.S.C. 5302(a), as appropriate?</p> <p>23 C.F.R. 450.324(g)(8)</p>	

Requirements in Federal Regulations		Where and How Addressed
A-12	Does the plan describe proposed improvements in sufficient detail to develop cost estimates? 23 C.F.R. 450.324(g)(9)	
A-13	Does the plan include 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 the environmental functions affected by the plan? Did the MPO develop the discussion in consultation with applicable Federal, State, and Tribal land management, wildlife, and regulatory agencies? 23 C.F.R. 450.324(g)(10)	
A-14	Does the plan include system-level estimates of costs and revenue sources to adequately operate and maintain Federal-aid highways and public transportation? 23 C.F.R. 450.324(g)(11)(i)	
A-15	Does the plan identify pedestrian walkway and bicycle transportation facilities in accordance with 23 U.S.C. 217(g)? 23 C.F.R. 450.324(g)(12)	
A-16	Did the MPO, public transportation operator(s), and State cooperatively develop estimates of funds that will be available to support metropolitan transportation plan implementation, as required under §450.314(a)? 23 C.F.R. 450.324(g)(11)(ii)	

Requirements in Federal Regulations		Where and How Addressed
A-17	Does the financial plan include recommendations on additional financing strategies to fund projects and programs included in the plan, and, in the case of new funding sources, identify strategies for ensuring their availability? 23 C.F.R. 450.324(g)(11)(iii)	
A-18	Are the plan's revenues and project costs reflected in year of expenditure dollars? 23 C.F.R. 450.324(g)(11)(iv)	
A-19	Was the plan developed in consultation, as appropriate, with State and local agencies responsible for land use management, natural resources, environmental protection, conservation, and historic preservation? Did the consultation involve, as appropriate, a comparison of transportation plans with State conservation plans or maps, or a comparison of transportation plans to inventories of natural or historic resources? 23 C.F.R. 450.324(h)	

Requirements in Federal Regulations	Where and How Addressed
<p>A-20 Does the plan integrate the priorities, goals, countermeasures, strategies, or projects for the metropolitan planning area contained in the HSIP, including the SHSP required under 23 U.S.C. 148, the Public Transportation Agency Safety Plan required under 49 U.S.C. 5329(d), or an Interim Agency Safety Plan in accordance with 49 C.F.R. part 659? 23 C.F.R. 450.324(i)</p>	
<p>A-21 Did the MPO use its participation plan developed under 23 C.F.R. 450.316(a) to provide a reasonable opportunity for individuals, affected public agencies, representatives of public transportation employees, public ports, freight shippers, providers of freight transportation services, private providers of transportation (including intercity bus operators, employer-based commuting programs, such as carpool program, vanpool program, transit benefit program, parking cashout program, shuttle program, or telework program), representatives of users of public transportation, representatives of users of pedestrian walkways and bicycle transportation facilities, representatives of the disabled, and other interested parties to comment on the plan? 23 C.F.R. 450.324(k)</p>	

Requirements in Federal Regulations		Where and How Addressed
A-22	Did the MPO publish or otherwise make readily available the plan for public review, including (to the maximum extent practicable) in electronically accessible formats and means, such as the World Wide Web? 23 C.F.R. 450.324(l)	
A-23	Did the MPO provide adequate public notice of public participation activities and time for public review and comment at key decision points, including a reasonable opportunity to comment on the proposed metropolitan transportation plan? 23 C.F.R 450.316(a)(1)(i)	
A-24	In developing the plan, did the MPO seek out and consider the needs of those traditionally underserved by existing transportation systems such as low-income and minority households? 23 C.F.R 450.316(a)(1)(vii)	
A-25	Has the MPO demonstrated explicit consideration of and response to public input received during development of the plan? If significant written and oral comments were received on the draft plan, is a summary, analysis, and report on the disposition of the comments part of the final plan? 23 C.F.R. 450.316(a)(1)(vi) and (2)	

Requirements in Federal Regulations		Where and How Addressed
A-26	Did the MPO provide an additional opportunity for public comment if the final plan differs significantly from the version that was made available for public comment and raises new material issues which interested parties could not reasonably have foreseen from the public involvement efforts? 23 C.F.R 450.316(a)(1)(viii)	
A-27	Did the MPO consult with agencies and officials responsible for other planning activities within the MPO planning area that are affected by transportation, or coordinate its planning process (to the maximum extent practicable) with such planning activities? 23 C.F.R. 450.316(b)	
A-28	If the MPO planning area includes Indian Tribal lands, did the MPO appropriately involve the Indian Tribal government(s) in the development of the plan? 23 C.F.R 450.316(c)	
A-29	If the MPO planning area includes Federal public lands, did the MPO appropriately involve Federal land management agencies in the development of the plan? 23 C.F.R 450.316(d)	

Requirements in Federal Regulations	Where and How Addressed
<p>A-30 In urbanized areas that are served by more than one MPO, is there written agreement among the MPOs, the State, and public transportation operator(s) describing how the metropolitan transportation planning processes will be coordinated to assure the development of consistent plans across the planning area boundaries, particularly in cases in which a proposed transportation investment extends across the those boundaries? 23 C.F.R. 450.314(e)</p>	

Florida Statutory Requirements Not Otherwise Addressed in Federal Code or Regulation		Where and How Addressed
Florida Statutes: Title XXVI – Public Transportation, Chapter 339, Section 175		
B-1	Are the prevailing principles in s.334.046(1), F.S. – preserving the existing transportation infrastructure, enhancing Florida’s economic competitiveness, and improving travel choices to ensure mobility – reflected in the plan? s.339.175(1), (5) and (7), F.S.	
B-2	Does the plan give emphasis to facilities that serve important national, state, and regional transportation functions, including SIS and TRIP facilities? s.339.175(1) and (7)(a), F.S.	
B-3	Is the plan consistent, to the maximum extent feasible, with future land use elements and the goals, objectives, and policies of the approved comprehensive plans for local governments in the MPO’s metropolitan planning area? s.339.175(5) and (7), F.S.	
B-4	Did the MPO consider strategies that integrate transportation and land use planning to provide for sustainable development and reduce greenhouse gas emissions? s.339.175(1) and (7), F.S.	
B-5	Were the goals and objectives identified in the Florida Transportation Plan considered? s.339.175(7)(a), F.S.	

Florida Statutory Requirements Not Otherwise Addressed in Federal Code or Regulation		Where and How Addressed
B-6	Does the plan assess capital investment and other measures necessary to 1) ensure the preservation of the existing metropolitan transportation system, including requirements for the operation, resurfacing, restoration, and rehabilitation of major roadways and requirements for the operation, maintenance, modernization, and rehabilitation of public transportation facilities; and 2) make the most efficient use of existing transportation facilities to relieve vehicular congestion and maximize the mobility of people and goods? s.339.175(7)(c), F.S.	
B-7	Does the plan indicate, as appropriate, proposed transportation enhancement activities, including, but not limited to, pedestrian and bicycle facilities, scenic easements, landscaping, historic preservation, mitigation of water pollution due to highway runoff, and control of outdoor advertising? s.339.175(7)(d), F.S.	
B-8	Was the plan approved on a recorded roll-call vote or hand-counted vote of the majority of the membership present? s.339.175(13), F.S.	

FHWA/FTA 2040 LRTP Expectations (November 2012)		Where and How Addressed
http://www.dot.state.fl.us/planning/policy/metrosupport/lrtp/LRTPExpectations2012.pdf		
C-1	Were the requirements for inclusion of projects in the MPO's Transportation Improvement Program (TIP) considered when developing the LRTP?	
C-2	<p>Projects in the LRTP: Does the plan include:</p> <ul style="list-style-type: none"> • Projected transportation demand in the planning area; • Existing (E+C) and proposed transportation facilities that function as an integrated system; • Operational and management strategies; • Consideration of results of the Congestion Management Plan; • Strategies to preserve existing and projected future transportation infrastructure; • Pedestrian and bicycle facilities; and • Transportation and transit alternative activities? <p>Are projects that meet the definition of regionally significant in 23 CRF 450.104 included in the Cost Feasible LRTP?</p>	
C-3	<p>Grouped Projects in the LRTP: If non-regionally significant projects have been grouped in the LRTP, are the groups specific enough to determine consistency between the LRTP and the TIP? Are the grouped projects similar in function, work type, and/or geographic area?</p>	

FHWA/FTA 2040 LRTP Expectations (November 2012)		Where and How Addressed
C-4	<i>Fiscal Constraint/Operations and Maintenance (O&M):</i> Does the LRTP provide system-level cost estimates for O&M activities using each of the five-year cost bands or as a total estimate for the entire timeframe of the LRTP? Are O&M cost estimates included for State- and locally-maintained facilities covered in the LRTP? Is the general source of funding for O&M activities identified? Is there a clear separation of costs for O&M activities and for capital investment projects?	
C-5	<i>Fiscal Constraint/Total Project Costs:</i> For each capacity expansion and regionally significant project, are all phases described in sufficient detail to estimate and provide an estimated total project cost, and explain how the project is expected to be implemented? For any projects that will go beyond the horizon year, does the LRTP explain what and when phases/work will be performed beyond the horizon year with costs estimated using year of expenditure methodologies?	

FHWA/FTA 2040 LRTP Expectations (November 2012)		Where and How Addressed
C-6	<i>Fiscal Constraint/Cost Feasible Plan:</i> Has an estimate of the cost and source of funding for each phase been provided for projects included in the CFP (phases are PD&E and Design or Preliminary Engineering, ROW, and Construction)? If boxed funds are utilized, are individual projects that will utilize them listed or described in bulk in the LRTP?	
C-7	<i>Fiscal Constraint/New Revenue Sources:</i> If any new revenue source is assumed as part of the CFP, is it clearly explained? Also, is the following covered: why the new revenue source is considered to be reasonably available, when it will be available, what actions would need to be taken for it to be available, and what would happen if it does not become available?	
C-8	<i>Fiscal Constraint/Federal Revenue Sources:</i> Are projects within the first 10 years planned to be implemented with Federal funds notated or flagged? Beyond the first 10 years, is project funding clearly labeled as a combined Federal/State source in the CFP?	
C-9	<i>Full-Time Span of the LRTP:</i> As a planning document, does the LRTP show all the projects and project funding for the entire period covered by the LRTP (base year to horizon year)?	

FHWA/FTA 2040 LRTP Expectations (November 2012)	Where and How Addressed
<p>C-10 Environmental Mitigation: For highway projects, does the LRTP include a discussion of types of potential environmental mitigation activities and opportunities at a system-wide level developed in consultation with Federal, State, and Tribal wildlife; land management; and regulatory agencies (beyond project-specific ETDM screenings)? Does the MPO maintain documentation of the consultation with the relevant agencies?</p> <p>Was there a need to State transit environmental benefits, such as reduction in single-occupant vehicle trips and vehicle miles traveled, reduction in greenhouse gases, pedestrian and bicycle linkages, and transit-oriented/compact development, within the broad parameters in the LRTP? Are phases for transit capital projects listed in the LRTP?</p>	
<p>C-11 LRTP Documentation/Final Board Approval: Was a substantial amount of the LRTP analysis and documentation completed at the time of MPO Board adoption? Will all final documentation/ documents be posted on-line and available through the MPO office no later than 90 days after plan adoption?</p>	

FHWA/FTA 2040 LRTP Expectations (November 2012)		Where and How Addressed
C-12	Documented LRTP Modification Procedures: Does the MPO have procedures that document how modifications to the adopted LRTP are to be addressed? These procedures can be included as part of the LRTP, the public participation plan, or provided elsewhere as appropriate.	
Transit Projects and Studies		
C-13	Major Transit Capital Projects: In order to plan for a transit “New Start” in the LRTP, the MPO must assume it will be successful in competing for discretionary FTA New Starts program dollars. Grantees may be proposing use of a Transportation Infrastructure Finance and Innovation Act (TIFIA) loan or other loan to help bridge the gap in capital financing for a New Start. With regard to planning of a major capital facility other than a New Start, the MPO must assume that FTA program funds, such as “State of Good Repair” and “Bus and Bus Facilities,” will be awarded to the transit system based on formula.	
C-14	Transit Facility: Transit facilities eligible for FTA 5307, 5309, 5337, and 5339 funds or FLEX funds from FHWA should be contained within the TIP and the STIP and be consistent with the LRTP. For example, consistent with the LRTP might mean a general statement, paragraph, line item, or section on the specific facilities and their	

FHWA/FTA 2040 LRTP Expectations (November 2012)		Where and How Addressed
	general location if known. Inclusion also might mention feasibility studies, preliminary engineering, appraisals, final design, property acquisition and relocation and NEPA documents, and perhaps the intent to seek local, State, or Federal funding for same. The award of such funds may require an LRTP Amendment to show such funds in the constrained LRTP.	
C-15	<i>Transit Service, Including Fixed-Route Bus, Deviated Route, Para-transit, Enhanced, or Express Bus:</i> Specific new transit service proposed by a transit grantee for a new area or corridor should, at a minimum, be consistent with the LRTP. For example, that might mean a general statement, paragraph, line item, or section on the specific service improvements to be undertaken (and the general location if known). Inclusion also might mention feasibility studies, operational plans, strategic plans, and perhaps the intent to seek local, State, or Federal funding for same. The award of such funds may require an LRTP Amendment to show such funds.	

FHWA/FTA 2040 LRTP Expectations (November 2012)		Where and How Addressed
C-16	<p>Transit Service, Including BRT, LRT, HRT, CRT, Streetcar Through New Starts/Small Starts Program: Specific new fixed guideway transit service proposed by a transit grantee to serve a new area or corridor as part of the FTA New Starts/Small Starts or Core Capacity Program should, at a minimum, be consistent with the LRTP. As such service may be a large capital expenditure, the project, termini, and cost would need to be specified in the constrained LRTP. Inclusion also might mention feasibility studies, NEPA studies, preliminary engineering and final design, right of way acquisition, operational plans, modeling improvements, strategic plans, and perhaps the intent to seek local, State, or Federal funding for same. The award of such funds would require an LRTP Amendment to show such funds in the constrained LRTP.</p>	
Emerging Issues – Not Currently Required/New Requirements May Have Short Timeframe for Compliance		
	<p>Safety and Transit Asset Management: MAP-21 includes significant additions to safety planning and transit asset management on the part of transit grantees and the States.</p>	
	<p>Performance Measurement: MPOs are encouraged to consider ways to incorporate performance measures/metrics for system-wide operation as well as more localized measures/</p>	

FHWA/FTA 2040 LRTP Expectations (November 2012)	Where and How Addressed
<p>metrics in their LRTPs. Measures to assess the plan's effectiveness in increasing transportation system performance will be needed. State and MPO target setting will follow establishment of performance measures under MAP-21 by U.S. DOT.</p> <p><i>Related MAP-21/FAST provisions that are codified but not yet finalized through rulemaking:</i></p> <p>Each MPO shall establish performance targets that address the performance measures or standards established under 23 C.F.R. Part 490 (where applicable), 49 U.S.C. 5326(c), and 49 U.S.C. 5329(d) to use in tracking progress toward attainment of critical outcomes for the region of the metropolitan planning organization. (23 C.F.R. 450.306(d)(2)(i))</p> <p>The selection of targets that address performance measures described in 23 U.S.C. 150(c) shall be in accordance with the appropriate target setting framework established at 23 C.F.R. Part 490, and shall be coordinated with the relevant State(s) to ensure consistency, to the maximum extent practicable. [23 C.F.R. 450.306(d)(2)(ii)]</p> <p>The selection of performance targets that address performance measures described in 49 U.S.C. 5326(c) and 49 U.S.C. 5329(d) shall be coordinated, to the maximum extent practicable, with public transportation providers to ensure consistency with the performance targets that public transportation providers establish under 49 U.S.C. 5326(c) and 49 U.S.C. 5329(d). [23 C.F.R. 450.306(d)(2)(iii)]</p>	

FHWA/FTA 2040 LRTP Expectations (November 2012)	Where and How Addressed
<p>Each MPO shall establish the performance targets under paragraph (d)(2) of this section not later than 180 days after the date on which the relevant State or provider of public transportation establishes the performance targets. (23 C.F.R. 450.306(d)(3))</p>	
<p>An MPO shall integrate in the metropolitan transportation planning process, directly or by reference, the goals, objectives, performance measures, and targets described in other State transportation plans and transportation processes, as well as plans developed by providers of public transportation, required as part of a performance-based program. (23 U.S.C. 134(h)(2)(D), 49 U.S.C. 5303(h)(2)(D))</p> <p>An MPO shall integrate in the metropolitan transportation planning process, directly or by reference, the goals, objectives, performance measures, and targets described in other State transportation plans and transportation processes, as well as any plans developed under 49 U.S.C. chapter 53 by providers of public transportation, required as part of a performance-based program. (23 C.F.R. 450.306(d)(4))</p> <p>In the transportation plan for the MPO's metropolitan planning area, describe the performance measures and performance targets used in assessing the performance of the transportation system and include a system performance report and subsequent updates evaluating the condition and performance of the</p>	

FHWA/FTA 2040 LRTP Expectations (November 2012)	Where and How Addressed
<p>transportation system with respect to the performance targets, including progress achieved by the MPO in meeting the performance targets in comparison with system performance recorded in previous reports, including baseline data; and for MPOs that voluntarily elect to develop multiple scenarios, an analysis of how the preferred 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. (23 C.F.R. 450.324(f)(3) and (4))</p>	
<p>Freight: Careful consideration should be given on how to address the 10 planning factors (see A-2). Special emphasis should be given to the freight factor as it is anticipated to play a more prominent role in future planning requirements.</p>	
<p>Sustainable Transportation and Context-Sensitive Solutions: MPOs are encouraged to identify and suggest contextual solutions for appropriate transportation corridors and promote livability.</p>	
<p>Proactive Improvements – Not Currently Required/Positive Strides in Long-Range Planning</p>	
<p>Linking Planning and NEPA: MPOs should strongly consider including purpose and need statements for regionally significant projects in their LRTP Cost Feasible Plans.</p>	

FHWA/FTA 2040 LRTP Expectations (November 2012)	Where and How Addressed
<p>Climate Change: MPOs may wish to consider climate change and strategies which minimize impacts to the transportation system. State legislation encourages MPOs to consider strategies that integrate transportation and land use planning in their LRTPs to provide for sustainable development and reduce greenhouse gas emissions, as well as include energy considerations in all State, regional, and local planning.</p>	
<p>Scenario Planning: If an MPO elects to do scenario planning as part of development of its LRTP, it is encouraged to consider a number of factors, including potential regional investment strategies, assumed distribution of population and employment, a scenario that maintains baseline conditions for identified performance measures, revenue constrained scenarios, and estimated costs and potential revenue available to support each scenario.</p> <p>An MPO may voluntarily elect to develop and evaluate multiple scenarios for consideration as part of development of its transportation plan. (23 C.F.R. 450.324(i))</p> <p>For an MPO that voluntarily elects to develop multiple scenarios, its system performance report, and subsequent updates, are to include an analysis of how the preferred 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. [23 C.F.R. 450.324(g)(4)ii)]</p>	

MPOAC Financial Guidelines for MPO 2040 LRTPs (January 2013)		Where and How Addressed
https://www.mpoac.org/download/florida_mpo_information/AdoptedGuidelines.pdf		
Guidelines for Defining and Reporting Needs		
D-1	Does the plan include a cost estimate of needs in base-year dollars and report estimated needs by mode? Does the needs estimate include all costs associated with all modes?	
D-2	Does the plan include only transportation projects that are necessary to meet identified future transportation demand or advance the goals, objectives, and policies of the MPO, the region, and the State?	
D-3	Does the plan exclude projects that are extremely unlikely to be implemented and unnecessarily inflate the estimated transportation needs in the metropolitan area?	
D-4	Does the plan include an estimate of unfunded project costs in base-year dollars?	
Guidelines for Financial Reporting for Cost Feasible Long Range Transportation Plans		
D-5	Is reasonably available revenue reported in year of expenditure (YOE) dollars?	
D-6	Is an estimate of the cost of all projects and all phases, regardless of mode, included in the Cost Feasible Plan?	

MPOAC Financial Guidelines for MPO 2040 LRTPs (January 2013)		Where and How Addressed
D-7	Are the costs of operating and maintaining the existing and future transportation system clearly stated in the Cost Feasible Plan?	
D-8	Did the MPO include full financial information for all years covered by the LRTP, including information from its transportation improvement program?	
Guidelines for Revenue Estimates and Developing Project Costs		
D-9	Did the MPO use State FY 2013/2014 as the base year and State FY 2039/2040 as the horizon year for its plan (for financial reporting purposes)?	
D-10	Has the MPO presented revenue estimates and project costs using 5-year periods to the year 2030 and a 10-year period for the remaining years of the plan (2031 to 2040)?	
D-11	Has the MPO included FDOT's revenue estimates for operating and maintaining the State Highway System at the district level in its plan documentation?	
D-12	Does the plan adjust project-cost estimates expressed in Present Day Cost dollars to YOE using FDOT inflation factors? If alternative inflation factors were used, has an explanation of assumptions used to develop them been provided?	
D-13	Does the plan incorporate 2040 SIS Cost Feasible Plan projects as provided by FDOT?	

