

MPO RESOLUTION #14-09

RESOLUTION APPROVING THE SCOPE OF WORK AND BUDGET TO EVALUATE ADDING TURBO LANES TO T-INTERSECTIONS STUDY

WHEREAS, the Interlocal Agreement creating and establishing the Metropolitan Planning Organization (MPO) for the Miami Urbanized Area requires that the MPO provide a structure to evaluate the adequacy of the transportation planning and programming process; and

WHEREAS, the Transportation Planning Council (TPC) has been established and charged with the responsibility and duty of fulfilling the aforementioned functions; and

WHEREAS, the TPC has reviewed the scope of work and budget, made a part hereof, and finds it consistent with the goals and objectives of the Transportation Plan for the Miami Urbanized Area,

NOW, THEREFORE, BE IT RESOLVED BY THE GOVERNING BOARD OF THE METROPOLITAN PLANNING ORGANIZATION FOR THE MIAMI URBANIZED AREA, that the attached scope of work and budget to evaluate the Turbo Lanes to T-Intersection Study is hereby approved.

The adoption of the foregoing resolution was moved by Board Member Lynda Bell. The motion was seconded by Board Member Sally A. Heyman, and upon being put to a vote, the vote was as follows:

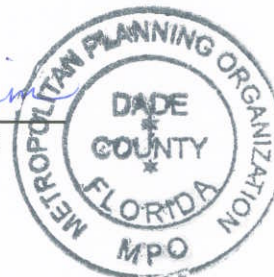
Chairman Dennis C. Moss-Absent
Vice Chairwoman Perla Tabares Hantman-Aye

Board Member Bruno A. Barreiro	-Aye	Board Member Barbara J. Jordan	-Absent
Board Member Lynda Bell	-Aye	Board Member William H. Kerdyk	-Absent
Board Member Matti Herrera Bower	-Aye	Board Member Joe A. Martinez	-Absent
Board Member Kevin A. Burns	-Aye	Board Member Julio Robaina	-Aye
Board Member Jose "Pepe" Diaz	-Absent	Board Member Dorrin D. Rolle	-Absent
Board Member Audrey M. Edmonson	-Absent	Board Member Marc D. Sarnoff	-Aye
Board Member Shirley M. Gibson	-Absent	Board Member Natacha Seijas	-Aye
Board Member Carlos A. Gimenez	-Absent	Board Member Katy Sorenson	-Aye
Board Member Maritza Gutierrez	-Aye	Board Member Rebeca Sosa	-Absent
Board Member Sally A. Heyman	-Aye	Board Member Javier D. Souto	-Aye

The Chairperson thereupon declared the resolution duly passed and approved this 26th day of March, 2009.

**METROPOLITAN PLANNING ORGANIZATION
M.P.O.**

By Zainab Salim
Zainab Salim, Clerk
MPO Secretariat



**Miami-Dade County
Metropolitan Planning Organization (MPO)**

Work Order # GPC III-XX

Adding Turbo Lanes to T-Intersections Study

SCOPE OF SERVICES

I. OBJECTIVE

The objective of this study is to evaluate T-intersections that can be converted to turbo lanes within the county boundaries.

II. BACKGROUND

The Miami-Dade Public Works Department (PWD) has identified a group of T-intersections that need to be evaluated for the purpose of this study. These efforts are not new and in the past, PWD and the Florida Department of Transportation (FDOT) have worked on this concept. Although turbo lanes can be seen as a positive factor for expediting thru traffic at these intersections, it can also create a safety problem for pedestrians and cyclists. In addition, in many locations weaving distance and merging to regular traffic may also contribute to increased accidents in selected locations.

The Citizens Transportation Advisory Committee (CTAC) requested that the PWD provide a list of intersections that can safely be converted into turbo lanes (Resolution #1-08). These intersections have been identified and will be evaluated in this study. These improvements will take into consideration factors such as no right-of-way acquisition, minimum or no environmental impact, and low costs. In addition, construction should not take more than three years including design.

III. PREVIOUS WORK

Recently, the MPO has conducted the Congested Intersection Improvements – Phase II which includes the development of several T-intersections along Biscayne Boulevard. Additionally, FDOT and PWD are working on other T-intersections that will be reviewed for the purpose of this study. The PWD has identified fifty-one (51) T-intersections that are potential candidates for conversion to turbo lanes.

IV. METHODOLOGY

1. Task 1: Coordination

- a. The Consultant, in cooperation with the MPO will form a Study Advisory Committee (SAC). The SAC will include representatives from the PWD, FDOT, and other members as needed.
- b. The consultant will hold meetings with the SAC to discuss relevant issues regarding the development of the study, as well as to review the progress of the study. These meetings will be held at the MPO or in a teleconference format, as appropriate.

- c. The consultant will present the results and recommendations of this study to the SAC and other MPO committees. A minimum of six (6) presentations will be scheduled for this purpose.

2. Task 2: Literature Research and Preliminary Review

- a. The consultant will review previous studies conducted by the MPO, FDOT and PWD regarding this topic.
- b. The consultant will research for guidelines and standards for implementing turbo lanes. This will include but not limited to: AASHTO, TRB, FHWA, FDOT and other sites, as needed.
- c. As part of this research, the consultant will prepare a summary of the findings and a recommendation of the guidelines and standards that should be used for this study.
- d. The consultant will review the fifty-one (51) T-intersections already identified by PWD and will conduct a preliminary screen to eliminate those that have major issues for implementation. This preliminary screen will be based on the guidelines and standards, previously recommended.

3. Task 3: Data Gathering

- a. The consultant will gather existing data for the remaining intersections, regarding:
 - Traffic data including, but not limited to: traffic volumes, V/C ratio, intersection geometry, intersection capacity, left turn movements, level of service, etc...
 - Transit data including, but not limited to: number of routes, location of bus stops, frequency, etc.
 - Safety data including, but not limited to: number of accidents, persons injured, number of fatalities, etc.
 - Infrastructure data including, but not limited to: number of lanes, medians, bicycle lanes/paths, pedestrian crosses, location of light poles and other obstructions, etc.
- b. Additional information will be collected as needed.

4. Task 4: Intersection Screening

- a. The consultant will evaluate the data gathered for the intersections that passed the first screening. The following factors will also be considered during this process: improvements already included in the Transportation Improvement Program (TIP), right of way acquisition, environmental impacts, number of accidents, traffic volumes, ease of implementation and availability of funding, among others.
- b. Based on this evaluation, a list of potential candidates will be prepared for further analyses.
- c. Second tier criteria will be developed for rating and ranking the top twenty-five (25) intersections for improvements.

5. Task 5: Intersection Analysis

- a. Data will be analyzed in detail for the twenty-five (25) selected locations.
- b. The consultant will identify potential conflict points or any other problems within the influence of the intersection that cause the level of congestion.
- c. If needed, field inspections will be conducted to visualize or confirm existing problems.
- d. As a result of these analyses, a set of improvements will be developed for implementing turbo lanes in the selected locations.
- e. An estimated cost of the recommendations made by intersection will be developed.
- f. A cost/benefit analysis will be conducted to determine and quantify the positive impacts of these improvements, where appropriate.

6. Task 6: Action Plan

The consultant will prepare an action plan by intersection including:

- a. Location
- b. List of improvements
- c. Jurisdiction (entity responsible for the implementation)

- d. Estimated Cost
- e. Time Schedule
 - Short Term
 - Medium Term
 - Long Term
- f. Schematic plans fully documented to support final design

V. DELIVERABLES

1. Fifteen (15) copies of the Final Report (full color) including pictures, charts, diagrams, maps, and tables should be included to facilitate the reading and illustrate the results of the study.
2. One hundred (100) copies of the Executive Final Report (full color in a newsletter format and no more than 8 pages is recommended)
3. A Power Point Presentation with the highlights of the study
4. Any brochure or printed material that contributes to enhance the study
5. Final Report and Executive Summary will be also submitted in electronic format (CD) to be posted in the MPO Website and for further reproduction and distribution.

VI. SCHEDULE

The Consultant should complete this work in nine (9) months.

VII. ESTIMATED COST

The estimated budget for this study is from \$75,000 to \$85,000 including 10% for contingencies.