

CITY OF CORAL GABLES

--MEMORANDUM--



The City Beautiful

TO: Vice Mayor and Commissioners

FROM: Mayor Vince Lago

DATE: January 28, 2022

SUBJECT: TPO Agenda Item 6.B.2 – Resolution to Conduct a Study along U.S. 1

On January 20, 2022, the TPO Governing Board held its monthly meeting and as the City's representative on the TPO, I sponsored Agenda Item 6.B.2., a resolution which provides the scope of services and the budget required to conduct a study along U.S. 1 from SW 27th Avenue to SW 72nd Street and provides recommendations to maximize the capacity of this corridor via multimodal and/or roadway improvements. Noting that the U.S. 1 corridor experiences considerable congestion, the directed study will provide key information necessary to make viable transportation policy decisions. Below you will find the following documents pertaining to the January 20th TPO Governing Board meeting and Agenda Item 6.B.2 for your review:

- The meeting agenda
- A cover memo for the resolution
- The draft resolution – passed and approved
- A draft work order detailing the scope of the services to be provided

CC: City Manager, Peter Iglesias



TPO GOVERNING BOARD

150 WEST FLAGLER STREET
SUITE 1924
MIAMI, FLORIDA 33130
GOVERNING BOARD CHAMBERS

Governing Board

Chairman

Oliver G. Gilbert III

Vice Chairman

Juan Carlos Bermudez

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Philippe Bien-Aime
Danielle Cohen Higgins
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Executive Director

Aileen Bouclé, AICP

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SMART Plan

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AGENDA

1. **ROLL CALL**
2. **PLEDGE OF ALLEGIANCE**
3. **REASONABLE OPPORTUNITY FOR THE PUBLIC TO BE HEARD**
4. **APPROVAL OF AGENDA**
5. **APPROVAL OF 2022 TPO GOVERNING BOARD MEETING DATES**
6. **ACTION ITEMS**
 - A. **PUBLIC HEARING ITEM(S)**
 1. **FISCAL YEAR 2022 TRANSPORTATION IMPROVEMENT PROGRAM AMENDMENT: ADDITION OF A MILLING AND RESURFACING PROJECT ON NW 82ND AVENUE**
RESOLUTION APPROVING AN AMENDMENT TO THE FISCAL YEAR 2022 TRANSPORTATION IMPROVEMENT PROGRAM TO INCLUDE A MILLING AND RESURFACING PROJECT ON NW 82ND AVENUE FROM NW 192ND STREET TO NW 186TH STREET (ROLL CALL REQUIRED)
 - B. **NON-PUBLIC HEARING ITEM(S)**
 1. **REQUEST BY TPO CHAIRMAN OLIVER G. GILBERT III**
RESOLUTION URGING MIAMI-DADE COUNTY TO COORDINATE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION TO ADVANCE THE IMPLEMENTATION OF CRITICAL SAFETY IMPROVEMENTS ALONG CARD SOUND ROAD/ CR 905A FROM U.S. 1 IN FLORIDA CITY TO THE MONROE COUNTY LINE
 2. **REQUEST BY TPO BOARD MEMBER VINCE LAGO**
RESOLUTION APPROVING THE SCOPE OF SERVICES AND BUDGET TO CONDUCT A STUDY ALONG U.S. 1 FROM SW 27TH AVENUE TO SW 72ND STREET AND PROVIDE RECOMMENDATIONS TO MAXIMIZE THE CAPACITY OF THIS CORRIDOR VIA MULTIMODAL AND/OR ROADWAY IMPROVEMENTS

It is the policy of the Miami-Dade TPO to comply with all the requirements of the Americans with Disabilities Act (ADA). The facility is accessible. For sign language interpreters, assistive listening devices, or materials in accessible format, please call 305-375-4507 at least five business days in advance of the meeting.

3. CORONAVIRUS RESPONSE AND RELIEF SUPPLEMENTAL APPROPRIATIONS ACT

RESOLUTION MODIFYING TPO RESOLUTION #46-2021 TO IDENTIFY THE FEDERAL FUNDING SOURCE AS CORONAVIRUS RESPONSE AND RELIEF SUPPLEMENTAL APPROPRIATIONS ACT (CRRSAA) FUNDS IN-LIEU-OF CORONAVIRUS AID, RELIEF, AND ECONOMIC SECURITY (CARES) ACT, WHICH THE FLORIDA DEPARTMENT OF TRANSPORTATION HAS PROGRAMMED FOR THE IMPLEMENTATION OF THE STRATEGIC MIAMI AREA RAPID TRANSIT (SMART) PLAN

4. 2022 SAFETY PERFORMANCE MEASURE TARGETS

RESOLUTION ESTABLISHING THE FLORIDA DEPARTMENT OF TRANSPORTATION'S "VISION ZERO" SAFETY PERFORMANCE MEASURE TARGETS FOR TRAFFIC FATALITIES AND INJURIES FOR CALENDAR YEAR 2022

C. COMMITTEE APPOINTMENTS

1. Vacancy Report

D. APPROVAL OF MINUTES

1. Meeting of November 30, 2021

7. REPORTS

A. BOARD MEMBERS

B. EXECUTIVE DIRECTOR

1. TPO Major Accomplishments Report
2. 2022 Safe Streets Summit

C. MIAMI-DADE COUNTY

D. COUNTY ATTORNEY

E. FLORIDA DEPARTMENT OF TRANSPORTATION (DISTRICT VI)

8. COMMITTEES AND SPECIAL REPORTS


A. CITIZENS' COMMITTEES

1. FREIGHT TRANSPORTATION ADVISORY COMMITTEE (FTAC)
2. TRANSPORTATION AESTHETIC ADVISORY COMMITTEE (TARC)
3. BICYCLE PEDESTRIAN ADVISORY COMMITTEE (BPAC)
4. CITIZENS' TRANSPORTATION ADVISORY COMMITTEE (CTAC)

B. SPECIAL REPORTS

9. CORRESPONDENCE

10. ADJOURNMENT

Date: January 13, 2022
To: Honorable Chairman Oliver G. Gilbert III and Members
TPO Governing Board
From: Aileen Bouclé, AICP 
Executive Director
Subject: Request by TPO Board Member Vince Lago

Agenda Item 6.B.2

This item was placed on the agenda at the request of TPO Board Member Vince Lago.

BACKGROUND

As directed by the TPO Governing Board on October 21, 2021, via Resolution #51-2021, this resolution approves the scope of services and budget to conduct a study along U.S. 1 from SW 27th Avenue to SW 72nd Street and provide recommendations to maximize the capacity of this corridor via multimodal and/or roadway improvements.

The U.S. 1 corridor experiences considerable congestion. Recommendations to improve the overall capacity in this corridor should be periodically assessed. Such assessments should include both multimodal and/or vehicular improvements. This study will provide the necessary information to make appropriate transportation policy decisions.

Attached is the scope of services and budget.

FISCAL IMPACT/FUNDING SOURCE

The estimated cost for the study is \$120,000.00, including 10% for contingency. The consultant shall complete this work in seven (7) months upon issuance of Notice to Proceed (NTP). The funding source is 100% Federal Highway Administration (FHWA) Surface Transportation Block Grant Urban funds (SU).

TRACK RECORD/ MONITOR

This item is monitored by Aileen Bouclé, AICP, TPO Executive Director.

TPO RESOLUTION #

RESOLUTION APPROVING THE SCOPE OF SERVICES AND BUDGET TO CONDUCT A STUDY ALONG U.S. 1 FROM SW 27TH AVENUE TO SW 72ND STREET AND PROVIDE RECOMMENDATIONS TO MAXIMIZE THE CAPACITY OF THIS CORRIDOR VIA MULTIMODAL AND/OR ROADWAY IMPROVEMENTS

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

WHEREAS, U.S. 1 experiences considerable congestion; and

WHEREAS, recommendations to improve the overall capacity in this corridor should be periodically assessed; and

WHEREAS, such periodic assessments should include both multimodal and/or vehicular improvements; and

WHEREAS, this study will provide the necessary information to make appropriate transportation policy decisions; and

WHEREAS, on October 21, 2021, the TPO Governing Board approved Resolution #51-2021 directing the TPO Executive Director or designee to prepare a scope of services and budget to conduct a study along U.S. 1 from SW 27th Avenue to SW 72nd Street and provide recommendations to maximize the capacity of this corridor via multimodal and/or roadway improvements,

NOW, THEREFORE, BE IT RESOLVED BY THE GOVERNING BOARD OF THE TRANSPORTATION PLANNING ORGANIZATION IN ITS ROLE AS THE MPO FOR THE MIAMI URBANIZED AREA, that the attached scope of services and budget to conduct a study along U.S. 1 from SW 27th Avenue to SW 72nd Street and provide recommendations to maximize the capacity of this corridor via multimodal and/or roadway improvements, is hereby approved.

The adoption of the foregoing resolution was Sponsored by Board Member Vince Lago and moved by .
The motion was seconded by , and upon being put to a vote, the vote was as follows:

Chairman Oliver G. Gilbert III
Vice Chairman Juan Carlos Bermudez

Board Member Philippe Bien-Aime
Board Member Danielle Cohen Higgins
Board Member Oscar De La Rosa
Board Member Jose “Pepe” Diaz
Board Member Rene Garcia
Board Member Perla T. Hantman
Board Member Keon Hardemon
Board Member Rodney Harris
Board Member Sally A. Heyman
Board Member Eileen Higgins

Board Member Vince Lago
Board Member Steven D. Losner
Board Member Roberto Martell
Board Member Joe A. Martinez
Board Member Kionne L. McGhee
Board Member Jean Monestime
Board Member Raquel A. Regalado
Board Member Rebeca Sosa
Board Member Javier D. Souto
Board Member Francis Suarez

The Chairperson thereupon declared the resolution duly passed and approved this 20th day of January 2022

TRANSPORTATION PLANNING ORGANIZATION

By _____
Zainab Salim, Clerk
Miami-Dade TPO

I. OBJECTIVE

The objective of this Study is to conduct a traffic analysis to assess vehicular and pedestrian crossing access along and across US-1 from SW 27 Avenue to SW 72 Street and provide recommendations to maximize the capacity of this corridor via multimodal and/or roadway improvements.

II. BACKGROUND

US-1 is an important north-south corridor in Miami-Dade County, linking residential communities to Miami's urban core. The study corridor includes the City of Miami, City of Coral Gables and the City of South Miami. Currently, US-1 experiences considerable traffic congestion, specifically between the areas of SW 27 Avenue and SW 72 Street in Miami-Dade County, in part, due to the increase of commercial, and residential development projects in the area.

During the October 21, 2021, TPO Board Meeting, Resolution #51-2021 was approved authorizing the TPO Executive Director or designee to develop a scope of services and budget to conduct a study along US-1 between SW 27 Avenue and SW 72 Street to maximize the capacity of this corridor via multimodal and/or roadway improvements.

This Study will build upon prior efforts such as: the 2019 FDOT "US 1 Corridor Study from SW 88th Street/N Kendall Drive to Interstate 95" and the 2019 "City of Coral Gables Comprehensive Multimodal Transportation Plan". The results of this Study will provide the necessary information to make appropriate transportation and policy decisions.

III. METHODOLOGY

This Study will analyze the accessibility and mobility impacts of recently constructed and future approved commercial, and residential development projects in the area along the corridor. The Study will identify potential congestion locations, bicycle and pedestrian demand and constraints, and evaluate multimodal transportation improvement needs on future travel demand along and across US-1 from SW 27 Avenue to SW 72 Street. This analysis will provide planning level conceptual improvements and recommendations including a comprehensive study of emerging technologies and other possible means of transportation to improve vehicular and pedestrian accessibility and connectivity along the east-west corridors/arterials/roadways across US-1, and that may provide mobility alternatives to help alleviate severe traffic congestion.

Task 1 – Literature Research & Data Gathering

- 1.1. The Consultant in coordination with the TPO Project Manager will identify and review the most relevant existing engineering and planning reports completed for US-1.
- 1.2. The Consultant shall obtain copies of relevant proposed/future plans which may affect the study corridor and any future projects included but not limited to the Long-Range Transportation Plan (LRTP), Transportation Improvement Program (TIP), local government comprehensive plans, bikeway and sidewalk master plans, local master development plans, transit Development Plan (TDP), local capital improvement plans (CIPs), and community development and management plans (CDMP), etc.
- 1.3. The Consultant will coordinate with the Cities of Miami, Coral Gables and South Miami to obtain any relevant current and future development plans which may affect the study corridor, including, the traffic impact studies for the approved developments in the corridor limits and the improvements recommended as part of those studies
- 1.4. The Consultant will perform nationwide research for possible transportation solutions which can help alleviate severe traffic congestion while providing vehicular and pedestrian accessibility across US-1, including but not limited to underpasses, overpasses, pedestrian bridges, and any other micro mobility options.
- 1.5. The Consultant will collect all necessary data to complete an existing condition for the US-1 from SW 27 Avenue to SW 72 Street, including but not limited to:
 - Available right-of-way, approach lane configurations, geometrics, existing traffic controls, pedestrian/bicycle facilities/features, accessibility to transit, and roadway characteristics for each of the intersection area.
 - Available traffic count data, transit ridership, bicycle/pedestrian facility utilization and related data from recent previous studies and/or readily available sources such as big data (Replica, RITIS, HERE, STRAVA, INRIX). This will include traffic data for vehicles, by bicyclist, and pedestrians. Any available data from 2020 will be adjusted to account for the effects of COVID-19 in the analysis of short term and long-term needs.
 - Available traffic analysis performed as part of the prior studies including intersection operational/capacity analysis results to be summarized for the selected intersection areas.
- 1.6. The Consultant in coordination with the TPO Project Manager and transportation partner agencies will determine any additional data needs for the completion of this study, such as ridership.

Task 2 –Existing and Future Traffic and Multimodal Conditions

Based on the data/information obtained from the previous task, the Consultant shall perform the following tasks:

- 2.1. The Consultant will select deficient locations based on previous studies and available data.
- 2.2. The Consultant will collect updated traffic data at selected locations to validate travel patterns and traffic counts collected as part of previous studies. This will also include drone video to observe vehicle/pedestrian interactions, queue lengths, and intersection unmet demand.
- 2.3. Based on existing counts and using traffic analysis tools, the Consultant will summarize existing transportation conditions along the corridor identifying intersection areas of recurring congestion, operational/system deficiencies, and transit/multimodal facilities accessibility. Available data such as INRIX and RITIS, could be used to identify existing congestion along US 1.
- 2.4. The Consultant will update the intersection traffic analysis/modeling previously completed by FDOT. Using Vissim or any other applicable software the Consultant will establish existing conditions and a “Long-Term Scenario” without improvements models for the selected deficient intersections areas between SW 27 Avenue and SW 72 Street.
- 2.5. The Consultant will develop a volume to capacity (V/C) analysis using the Southeast Florida Regional Planning Model (SERPM) and any available traffic count data for the following years (2015, 2019, and 2045).
- 2.6. The Consultant will review the SERPM results within the study limits to perform a reasonableness check of cross streets, and parallel roadways.
- 2.7. The Consultant will calibrate the “Existing Conditions” model to make sure that simulated traffic conditions accurately reflect real world traffic conditions.
- 2.8. The Consultant will perform an assessment of traffic impacts and trends between 2015 & 2019 of the study area.
- 2.9. The Consultant shall conduct an assessment of future conditions based on 2045 forecast land use analysis to ensure that the 2045 socio-economic data reflects recent and planned growth.

Task 3 –Analysis of Alternatives

Based on the data/information obtained from the previous task, the Consultant shall perform the following tasks:

- 3.1. The Consultant will identify at least three (3) deficient intersection areas between SW 27 Avenue and SW 72 Street and recommend potential improvements (i.e., Multimodal,

Transportation System Management and Operations (TSM&O) or other). Based on results from Future No-Build traffic analysis

- 3.2. Using Vissim or any other applicable software; the Consultant will develop a “Long-Term Scenario” which incorporates proposed improvements identified for the selected deficient intersection areas.
- 3.3. The Consultant will compare the “Long-Term Scenario” with improvements against the “Long-Term Scenario” without improvements to gauge the effect of proposed improvements on future traffic condition and accessibility. The Consultant will prioritize the proposed improvements for future implementation.
- 3.4. The Consultant will summarize future transportation conditions on the selected intersection areas identifying locations of potential congestion, operational/system deficiencies, and transit/multimodal facilities accessibility.

Task 4 – Recommendations and Next Steps

- 4.1. The Consultant in consultation with the TPO Project Manager and the Project Working Group (PWG) will provide corridor recommendations. Additionally, any recommendations should be coordinated with FDOT.
- 4.2. The Consultant in consultation with the TPO Project Manager will select the measures and criteria that will be used to prioritize the improvements.
- 4.3. The Consultant will develop conceptual renderings including the potential improvements taking in consideration any right of way availability and impacts.
- 4.4. The Consultant will develop an estimate cost for the proposed improvement(s), including preliminary right of way, using sources such as the Long-Range Estimate (LRE), Statewide Average Pay Item Costs, etc.
- 4.5. The Consultant in consultation with the TPO Project Manager will identify potential source of funding for the implementation of the proposed improvement(s).
- 4.6. The Consultant will provide a “roadmap” for the implementation of the recommendations.

Task 5 – Project Coordination and Management

This task includes coordination of the work effort with the TPO staff team and transportation partners to manage the scope of services, time schedule and budget. This task includes:

- 5.1. Consultant team members and the TPO Project Manager shall hold monthly project team meetings, including a project kick-off meeting, to discuss study progress and address issues to ensure the study is completed successfully and timely. A total of nine (9) meetings are anticipated, including the kick-off meeting.
- 5.2. The Consultant shall submit timely monthly invoices electronically with corresponding progress reports to document and support the work completed for approval by the TPO project manager.
- 5.3. The Consultant shall develop one (1) presentation and attend up to six (6) meetings to present the results of this study to the TPO Board, Citizen committees, and Board member briefings, as needed.
- 5.4. The Consultant shall prepare agendas, and document meeting notes, throughout the course of the study.
- 5.5. The Consultant shall develop and maintain a project schedule including major milestones and meeting dates, with approval of the TPO Project Manager.
- 5.6. The Consultant in coordination with TPO Project Manager will identify stakeholders and participants to establish a Project Working Group (PWG) including but not limited to FDOT, DTPW, RER, University of Miami, and the following municipalities: City of Miami, City of Coral Gables, and City South Miami. The PWG will provide valuable feedback and will review materials on all project deliverables and approval/endorsement of the results and recommendations for this study. The Consultant will prepare PWG meeting minutes and submit them to the members for review and comments before they are finalized.
- 5.7. A total of four (4) PWG meetings (in person or virtual) are anticipated as part of this scope of services. The intent of the PWG is to provide essential technical and policy guidance on the project related issues.

Deliverable

All documentation listed above, and presentation materials shall be delivered to the TPO in an electronic format, either PDF or PowerPoint.

IV. DELIVERABLES

1. Five (5) full color copies of the Final Report which should include information on Tasks 1 through 4 listed as part of this scope: "Literature Research & Data Gathering", "Existing and Future Traffic Conditions", "Analysis of Alternatives", "Recommendations and Next Steps".
2. The report will also include pictures, charts, diagrams, maps, tables, to facilitate the reading of the report and for better illustration of the actions recommended in the study.

3. Ten (10) copies of the Executive Summary (full color in a newsletter format and no more than 8 pages is recommended).
4. A PowerPoint Presentation with the highlights of the Study.
5. A brochure/fact sheet printed or web material that contributes to enhance the Study.
6. Final Report and Executive Summary will be also submitted in electronic format (CD) to be posted in the TPO Website and for further reproduction and distribution.

V. SCHEDULE

The duration of the task listed in this scope of services will be seven (7) months, from the Notice to Proceed.

VI. ESTIMATED BUDGET

The estimated cost for all the tasks listed in this scope of services is \$120,000 inclusive of a 10% contingency.