

**METROPOLITAN PLANNING ORGANIZATION BOARD
EXECUTIVE COMMITTEE**

1:30 p.m., March 11, 2015
Cape Coral Public Works Building Room 200
815 Nicolas Parkway, Cape Coral, FL 33915



AGENDA

Call to Order

Roll Call

New Business

1. Public Comments on New Business Items
2. +Review and Provide Input on the TIGER Project Public Involvement Process (Johnny Limbaugh)
3. +Update and Provide Input on the Development of the 2040 Long Range Transportation Plan (Don Scott)

Other Business

4. Public Comments on Items Not on the Agenda
5. Announcements
6. Information and Distribution Items

Adjournment

* Action Items + May Require Action

All meetings of the Lee County Metropolitan Planning Organization (MPO) are open to the public. In accordance with the Americans with Disabilities Act, any person requiring special accommodations to participate in this meeting should contact Mr. Johnny Limbaugh at the Lee MPO 48 hours prior to the meeting by calling (239) 330-2242; if you are hearing or speech impaired call (800) 955-8770 Voice / (800) 955-8771 TDD. Or, e-mail jlimbaugh@leempo.com.

The MPO's planning process is conducted in accordance with Title VI of the Civil Rights Act of 1964 and related statutes. Any person or beneficiary who believes he has been discriminated against because of race, color, religion, sex, age, national origin, disability, or familial status may file a complaint with the Lee County MPO Title VI Coordinator Johnny Limbaugh at (293) 330-2242 or by writing him at P.O. Box 150045, Cape Coral, Florida 33915-0045.

**REVIEW AND PROVIDE INPUT ON THE TIGER PROJECT
PUBLIC INVOLVEMENT PROCESS**

RECOMMENDED ACTION: Provide input on public involvement activities proposed for the LCCSI TIGER project.

Quest Corporation of America will present their approach to providing public information for the TIGER project. Below is an excerpt from the CEI Scope of Services pertaining to public Information services:

(2) Provide Public Information Services and be proactive in keeping the community aware of the status and traffic impacts of the referenced project. With approval from the MPO Project manager, prepare and disseminate information to the public, elected officials and the media of any upcoming events, which will affect traffic flow. Produce and distribute all publications (letters, flyers, brochures and news releases) necessary for this contract. Prior to release, the MPO's designee will approve all responses, letters, news releases and the like. Provide timely, professional responses to project inquiries including emails, telephone calls, etc. Coordinate general public information meetings, open houses, community meetings as directed by the MPO's representatives. Notify Florida 511 of lane closures and detours and notify TeleAtlas of permanent roadway changes. Public Information Services must comply with the MPO's Limited English Proficiency (LEP) Plan by providing reasonable access to project information in languages other than English, as applicable.

**PROVIDE INPUT ON THE DEVELOPMENT OF THE
2040 LONG RANGE TRANSPORTATION PLAN**

RECOMMENDED ACTION: Provide input on various items related to the development of the 2040 Long Range Transportation Plan.

Staff will present the following items related to the Long Range Plan update for input from the Executive Committee:

- Review of the draft constrained corridor list (**attached** and we will provide map at the meeting)
- Review of the I-75 managed lanes analysis (**attached**)
- Review of the draft performance measure methodology
- Review of the project links identified as over capacity from the initial model runs
- Preliminary review of the proposed projects and possible alternatives

Constrained Corridor List for Review:

- Estero Blvd./Hickory Blvd from San Carlos Blvd to Bonita Beach Road
- Daniels Parkway from Metro Parkway to I-75
- Pine Island Road from Stringfellow to Burnt Store Road
- Buckingham Road from Gunnery to Orange River Blvd.
- College Parkway from McGregor Blvd to US 41
- Summerlin Road from San Carlos Blvd to Gladiolus Drive
- Boy Scout Road from Summerlin to US 41
- Fowler from US 41 to Colonial Blvd.
- SR 80 from Ortiz to SR 31
- Bus US 41 from SR 82 to SR 78
- Gladiolus Drive from Bass Road to US 41
- Metro/Michael G. Rippe from Alico Road to Daniels Parkway
- Alico Road from Michael G. Rippe to Ben Hill
- Ben Hill from Gulf Coast Town Center to Alico Road
- US 41 from Collier County line to Victoria Avenue
- SR 82 from Ortiz to Colonial Blvd
- Colonial Blvd from McGregor Blvd to Six Mile Cypress
- Cape Coral Parkway from Chiquita to Del Prado
- Santa Barbara Blvd from Gleason to SR 78
- Bonita Beach Road from Old US 41 to I-75
- Veterans Pkwy from Skyline to Del Prado
- Del Prado from Cape Coral Parkway to Diplomat Parkway
- Stringfellow Road
- San Carlos from Summerlin Road to Main Street
- McGregor Blvd from College Pkwy to US 41
- Old Us 41 from Bonita Beach Road to Terry Street
- West First Street from McGregor Blvd to US 41
- SR 80 from US 41 to Seaboard
- Captiva Road
- Roads on Sanibel

Introduction

Currently, the Lee County Metropolitan Planning Organization (MPO) is developing the County's 2040 Long Range Transportation Plan (LRTP). A component of this effort is to build the Existing plus Committed (E+C) network for travel demand forecasting. When coordinating with the Florida Department of Transportation District 1, it was requested that Express Lanes on I-75 be included in the E+C network. Express Lanes are proposed from Dr. Martin Luther King Jr. Boulevard in Lee County to Pine Ridge Road in Collier County.

To support the MPO's ongoing efforts, this draft technical memorandum identifies potential entry/exit points for weave zones on the proposed Express Lanes. This task only investigates the segment in Lee County, from Dr. Martin Luther King Jr. Boulevard to the Collier County Line. It should be noted that the entry/exit points identified are preliminary and for modeling purposes only. Locations of entry/exit points are subject to change during the course of future studies.

Assumptions

The following assumptions were used to determine the entry/exit locations:

- The first assumption is that four Express Lanes — two northbound and two southbound — will operate on the inside of the general use lanes on I-75. Lee County's 2035 Needs Plan and the Florida Department of Transportation's (FDOT) 2040 Strategic Intermodal Systems Needs Plan identify four special use lanes as a future need.
- The second assumption is that weave zones will be implemented. The Federal Highway Administration defines weave zones as areas where there is a break in the buffer striping that allows drivers to exit and enter Express Lanes. It is the most widely-used method for accessing Express Lanes in the United States and the least expensive one to implement.
- The third assumption is that I-75 will continue to operate six general purpose lanes, with three in each direction.
- The fourth assumption is that drivers will leave weave zones and cross three general purpose lanes to exit I-75 at an interchange.
- The fifth assumption is that Express Lanes will be built in Collier County, and entry/exit points will be provided in the County. The County's 2035 Needs Plan identifies Express Lanes as a future need.

Methodology

Three sources were used to identify locations for weave zones. First, 2013 Average Annual Daily Traffic (AADT) counts¹ were collected from the Florida Department of Transportation to determine where demand is currently the highest. In addition, the following two highway design books were referenced to ensure that locations are feasible:

- American Association of State Highway and Transportation Officials (AASHTO) *Geometric Design of Highways and Streets* (2004)
- Transportation Research Board (TRB) *Highway Capacity Manual* (2010)

Specifically, AASHTO recommends that weave zones be approximately 2,000 feet long for sufficient entry/exit space. Using the 2010 *Highway Capacity Manual* as guidance, a minimum of 750 feet per lane will be required for crossing general purpose lanes to the highway exit. For developing the 2040 LRTP, this task assumes a conservative estimate of 4,250 feet: 2,000 feet of weave zone and 2,250 feet to cross three general purpose lanes to exit I-75.

Finally, seven interchanges on the proposed Express Lanes segment were identified:

- SR 82/Dr. Martin Luther King Jr. Boulevard
- SR 884/Colonial Boulevard
- SR 876/Daniels Parkway
- Terminal Access Road
- Alico Road
- SR 850/Corkscrew Road
- SR 865/Bonita Beach Road SE

Results

The results displayed in **Table 1** show that Daniels Parkway and Colonial Boulevard have the highest demand. The distance between the two interchanges is 4.6 miles, which would allow for a 2,000-foot weave zone and 2,250 feet for exiting I-75 at an interchange. In addition, there is significant demand at Bonita Beach Boulevard. The distance between Bonita Beach Boulevard and Corkscrew Road is 7.4 miles, which would allow for a 2,000-foot weave zone and 2,250 feet for exiting I-75 at an interchange. The spacing between the Daniels Parkway, Terminal Access Road, and Alico Parkway interchanges does not meet the weaving zone criterion of distance and was eliminated from consideration.

¹ 2013 is the most recent available data, from <http://www.dot.state.fl.us/planning/statistics/trafficdata/>

Table 1: Interchange Volumes and Distances between Interchanges

Interchange*	Interchange Volume**	Distance between Interchanges (miles)	
		To the North	To the South
SR 82/Dr. Martin Luther King Jr. Boulevard	19,900	3.5	1.5
SR 884/Colonial Boulevard	38,300	1.5	4.6
SR 876/Daniels Parkway	48,500	4.6	2.5
Terminal Access Road	N/A***	2.5	1.3
Alico Road	35,200	1.3	4.3
SR 850/Corkscrew Road	30,300	4.3	7.4
SR 865/Bonita Beach Road SE	32,800	7.4	4.1

**Interchanges are listed in a north to south order*

***Based on 2013 AADT*

****AADT data were not available for this interchange*

This task assumes that an entry/exit point will be near the start of the Express Lanes at Dr. Martin Luther King Jr. Boulevard. By applying the aforementioned methodology, the following two locations were identified as potential locations for weave zones:

- Between Colonial Boulevard and Daniels Parkway
- Between Corkscrew Road and Bonita Beach Road