

GRPC PLANNING — MOBILITY (2024)

TRAFFIC CONGESTION

Traffic congestion affects the predictability and dependability of travel times on transportation infrastructure. Improvements in traffic flow may be highly valued by transportation system users, particularly for freight movement. Improved reliability of travel time creates additional value. This reflects the fact that uncertainty makes trav-

elers and freight operators adjust their departure times to account for the possibility that their trips may take longer than usual. The less uncertain they are about the extra time they need to allocate for this contingency, the more precisely they can schedule their trip, which saves them time.

LEVEL OF SERVICE ANALYSIS

This Level of Service analysis uses service volume numbers for LOS D. The numbers were developed using Florida Department of Transportation's 2023 Multimodal Quality/Level of Service Handbook. It provides a foundation for high-quality, consistent Level of Service (LOS) analyses and review. It incorporates new analytical techniques from the Transportation Research Board's Highway Capacity Manual, Sixth Edition: A Guide for Multimodal Mobility Analysis (HCM).

The primary intent of this analysis is to assist decision-makers in the planning and design of roadways and in the evaluation of roadways at generalized planning levels. Generalized planning includes a range of high-level analysis, such as initial problem identification geographic influence areas. This analysis compares the appropriate motorized vehicle demand volumes for the Gulf Coast roadways to the to the generalized service volumes for LOS D.

The table below shows the maximum total hourly volumes in both directions that can be sustained in each segment for LOS D under prevailing roadway, traffic, and control conditions.

<u>Roadway</u>	<u>Peak Hour Volume</u>
2-Lane	1264
2-Lane with Left Turn Lane	1659
2-Lane with Center Turn Lane	1659
4-Lane Interstate	7400
4-Lane Undivided	2438
4-Lane Divided	3413
4-Lane with Center Turn Lane	3413
6-Lane Interstate	11050
6-Lane Divided	5366
8-Lane Interstate	14710
8-Lane Divided	6321

OBJECTIVE

Improve mobility by reducing traffic congestion and delay.

STRATEGY

Expand roadway capacity where needed.

MEASURE

Miles of roads operating at Level of Service D or lower.

GRPC Mission

Provide a planning process that identifies, develops, and promotes projects and programs that contribute toward a safe, efficient, and resilient Mississippi Gulf Coast transportation system.

**GULF COAST
ROADWAYS
OPERATING
AT LEVEL OF
SERVICE (LOS) D
OR LOWER.**

HANCOCK COUNTY
Hancock County Hwy 603 Texas Flat Road to 4-lane
Diamondhead West Aloha Diamondhead Drive to Kalani Drive
HARRISON COUNTY
Long Beach Beatline Road Daugherty Road to Pineville Road
Long Beach West Railroad Street Pineville Road to Jeff Davis Avenue
Gulfport Three Rivers Road Seaway Road to Oneal Road
Gulfport Dedeaux Road Dede Drive to MS 605

Gulfport MS 605 I10 to Seaway Road
Gulfport Pass Road Teagarden Road to Ford Street
Gulfport US 49 Community Road to Landon Road
Gulfport Creosote Road US 49 to Rippy Road
Gulfport Washington Avenue Airport Road to 54th Street
Gulfport / Harrison County Canal Road 28th Street to I-10
Harrison County Canal Road I-10 to Landon Road
Harrison County Canal Road I-10 to Landon Road

Biloxi Popps Ferry Road Riverview Drive to Pass Road
Biloxi Cedar Lake Road I-10 to Medical Park Drive
Biloxi Cedar Lake Road I-10 to Cedar Lake Bridge
Biloxi US 90 White Avenue to I-110
JACKSON COUNTY
Ocean Springs Washington Avenue US 90 to Government Street
Ocean Springs US 90 Martin Luther King Jr. Drive to Ocean Springs Road
Gautier US 90 Beasley Road to Dolphin Drive

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Pascagoula Chicot Street US 90 to Shortcut Road		
Jackson County Seaman Road Tucker Road to Lake Forrest Drive		
Jackson County Greyhound Way Old Spanish Trail to Fountainbleau Road		
Gautier US 90 Dolphin Drive to Beasley Road		
Gautier I-10 Hwy 57 to Gautier-Vancleave Road		
Jackson County I-10 Martin Bluff Road to Hwy 613		

GULF COAST ROADWAY CONGESTION

