



TECHNICAL MEMORANDUM

Date: November 10, 2008

To: Anthony Depies, P.E.
City of Sturgeon Bay

From: Don Lee, P.E.
John A. Bieberitz, P.E., PTOE
Traffic Analysis & Design, Inc.

Cc:

Subject: Wal-Mart SuperCenter Redevelopment – Sturgeon Bay, Wisconsin

A new Wal-Mart SuperCenter development has been proposed to replace the existing Wal-Mart store located on the north side Egg Harbor Road at Alabama Street in Sturgeon Bay, Wisconsin. The new Wal-Mart SuperCenter is proposed to be located immediately north of the existing store. As part of the redevelopment, Traffic Analysis & Design, Inc. has completed a Traffic Impact Analysis (TIA) study dated November 4, 2008 for the City of Sturgeon Bay. This technical memorandum has been prepared to provide the City a list of off-site improvements which are attributable to the additional traffic to/from the Wal-Mart Supercenter development. Based on the results of the study, the following improvements are recommended at the study area intersections due to the full build out of the Wal-Mart SuperCenter:

Year 2009 Full Build

Egg Harbor Road at Alabama Street

- Install traffic signal control.
- Construct dedicated left-turn lanes on the northbound and southbound approached.
- Construct dedicated left-turn lanes on the eastbound and westbound approaches.
- Construct a dedicated right-turn lane on the westbound approach.

Pedestrian Facilities

- Sidewalks and bike accommodations should be provided within the proposed site.

In addition, the following additional improvements would be expected to be completed by WisDOT as part of their planned improvement project along STH 42/57 within the next 5 years:

STH 42/57 at Alabama Street

- Provide traffic signal control, roundabout control or restrict access with right-turn access only.

STH 42/57 at Egg Harbor Road

- Provide traffic signal or roundabout control.

Year 2019 Full Build

In many cases, the WisDOT and many municipalities will require the developer to be responsible for the 10-year build out improvements if they aren't already necessary based on background growth. Therefore, the implementation of the following improvements could be attributed to the developer as part of the development agreement for this project:

Egg Harbor Road at Alabama Street

- Provide eastbound left-turn phasing at signalized intersection.

Egg Harbor Road at Peterson Road/14th Avenue

- Install traffic signal control or roundabout control.

Egg Harbor Road at Peterson Road/14th Avenue

- Install traffic signal control or roundabout control.

Egg Harbor Road at Alabama Street

- Install traffic signal control with left-turn phasing.
- Construct dedicated left-turn lanes on the northbound and southbound approaches.
- Construct dedicated left-turn lanes on the eastbound and westbound approaches.
- Construct a dedicated right-turn lane on the westbound approach.

Pedestrian Facilities

- Sidewalks and bike accommodations should be provided within the proposed site.