

TRAFFIC MANAGEMENT PLAN FOR
**STONEWALL JACKSON
ELEMENTARY SCHOOL**

DALLAS, TEXAS

DeShazo Project No. 16005

Prepared for:

Masterplan

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Traffic Management Plan for
Stonewall Jackson Elementary School
~ DeShazo Project No. 16005 ~

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Technical Memorandum

To: Mr. Karl Crawley — Masterplan
From: David Nevarez, P.E. — DeShazo Group, Inc.
Date: January 27, 2016
Re: Traffic Management Plan for Stonewall Jackson Elementary School in Dallas, Texas
DeShazo Project Number 16005

INTRODUCTION

DeShazo Group, Inc. (DeShazo) is an engineering consulting firm providing licensed engineers skilled in the field of traffic/transportation engineering. The services of DeShazo Group, Inc. (DeShazo) were retained by Masterplan on behalf of the Dallas Independent School District to provide a requisite Traffic Management Plan (TMP) for Stonewall Jackson Elementary School located at 5828 E Mockingbird Lane in Dallas, Texas.

At the time of this study, the school had an enrollment of 613 students in Kindergarten through 5th grade. The school is undergoing a revision of their existing plan. The proposed changes are attributed to the conversion of existing portable facilities to buildings. The school, however, does not anticipate any increase in student enrollment as a result of the proposed site plan revision. The proposed site plan prepared by Jacobs & Associates showing both existing and proposed building modifications is attached as reference.

The school site is zoned Single Family Residential [R-7.5(A)] District. In order to gain entitlements for the proposed improvements, the school administration is seeking approval of a change to the development plan. As part of the approval process, the City of Dallas requires submittal of a TMP as a record of the preferred traffic control strategies and to ensure overall traffic safety and efficient operations. The plan is intended to assess anticipated traffic conditions during the morning drop-off and afternoon pick-up activities on the basis of satisfying these objectives. By consent of the TMP submittal, the school agrees to the strategies presented herein. In addition, the school is held self-accountable to enforce the plan until and unless the City of Dallas deems further mitigation measures are necessary.

[NOTE: In this report the term "parent" refers to any parent, family member, legal guardian, or other individual who is involved in the pick-up or drop-off of one or more students at the school.]

TRAFFIC MANAGEMENT PLAN

A school TMP is important to safely achieve an optimum level of traffic flow and circulation during peak traffic periods associated with student drop-off and pick-up. By properly managing the vehicular traffic generated during the critical periods, the safety and efficiency of other modes of travel – including walking – will also inherently improve, and the operational impact on the public street system should also be minimized. The TMP should not be considered a comprehensive set of instructions to ensure adequate safety; however, it should be used as a tool to facilitate a safer and more efficient environment.

The analysis summarized below utilizes the proposed school site plan to evaluate aspects such as parking and vehicle queuing (i.e., stacking) that occur at the school in order to accommodate the observed peak demands. A concerted effort and full participation by the school administration, staff, students, and parents are essential to maintain safe and efficient traffic operations.

School Operational Characteristics

Table 1 summarizes the known operational characteristics for Stonewall Jackson Elementary School assumed in this analysis:

Table 1. School Operational Characteristics

	Existing Conditions
Enrollment:	K - 5 th Grade, 613 students
Daily Start/End Schedule:	>Start: 7:55 AM >End: 2:55 PM
Approximate Number of Students Travelling by Mode Other Than Drop-off/Pick-up:	By School Bus: \cong 10% By Walking: \cong 0% By Other: \cong 0%
Approximate Number of Students With Alternate Schedules (i.e., Arrive/Depart Outside Normal Peak Times):	10% (extracurricular activities, etc.)

NOTE #1: To the highest degree practical, the accounts of existing conditions presented in this report were based upon actual on-site observations conducted by DeShazo during typical school day(s) conditions and from personal interviews of school representatives.

NOTE #2: Occasional functions or other events may be held at the school, which generate traffic outside of the traditional peak drop-off and pick-up periods. While some of the measures presented in this report may be applicable in such cases, traffic characteristics other than those directly associated with the primary drop-off and pick-up periods are not the subject of this analysis.

Site Access and Circulation

The school site provides one parking lot for school staff at the northwest corner of the site. A total of two driveways allow direct access to/from Mockingbird Lane. During peak school hours, traffic operations concentrate on segments adjacent to the school on Delmar Avenue and Anita Lane. The majority of parents arrive at the school site from either Matilda Drive or Mockingbird Lane while a minimal number of vehicles still use Winton Street and Bremen Street. Most parents also park on Delmar Avenue, Anita Street, or Winton Street and wait for students. A minimal number of parents drive into the staff parking lot and park.

The school provides two loading areas for school buses. One school bus loads students at the staff parking lot, circulates to the designated bus loading area and exits onto Mockingbird Lane. Another school bus loads students at a designated area on Delmar Avenue.

Delmar Avenue effectively operates as one-way during school drop-off and pick-up periods. During the afternoon peak, approximately six students cooperate with traffic management, assisting fellow students while crossing Delmar Avenue; school staff coordinate students and oversee their safety. These students carry "Slow/Stop" hand-held signs to direct traffic and aid pedestrian movement on Delmar Avenue.

Passenger Unloading/Loading and Vehicle Queuing

DeShazo conducted field observations during typical school-day conditions on January 12, 2016. The peak number of parent-vehicles on site was quantified during the afternoon pick-up period. A maximum total of 134 vehicles were observed on site. Vehicle accumulation counts include all vehicles in queue or parked on- and off-campus.

SUMMARY & RECOMMENDATIONS

In general, school traffic operates without any evident problem on major thoroughfares (i.e. Mockingbird Lane and Matilda Street). School should continue to enforce existing operations. As needed, school officials are encourage to engage staff, parents, students and the community in information sessions about traffic operations and their expectations. Full cooperation of all school staff members, students, and parents is crucial for the continuing success of their traffic management protocols. Likewise, proper training of school staff and student safety patrol members on duties and expectations pertaining to the plan is recommended. In addition to existing traffic management, DeShazo recommends the following actions as alternatives to improve traffic operations:

- Install signs on Mockingbird Lane to discourage parents from entering the staff parking lot.
- All bus loading activities should take place on school property at the staff parking lot.
- To maximize personal safety, school staff should fully monitor student safety patrol at all times.
- Staff should install temporary traffic control devices such as traffic cones along Delmar Avenue to visibly clear pedestrian crosswalk when typical traffic conditions are expected. An appropriate number of school staff should be assigned to fulfill these duties.
- As needed, the safety patrol directing traffic should continue to use reversible hand-paddle signs with the messages (and symbols) for STOP and for SLOW (i.e. proceed slowly) while wearing safety vests.

Given that traffic demands are not expected to change in the near future, current traffic procedures are considered to provide an optimal level of safety and operation. Based on DeShazo's review of the existing and proposed site conditions, it is recommended that the existing circulation plan and traffic operations be maintained. The site traffic circulation plan is depicted in **Exhibit 1**.

This TMP is to be used by Stonewall Jackson Elementary School to provide safe and efficient transportation of students, staff, and faculty to and from the site. The Plan was developed with the intent of optimizing safety and efficiency and the goal of accommodating vehicular traffic generated by the school at peak traffic periods within the site. The details of the TMP shall be reviewed by the school on a regular basis to confirm its effectiveness.

END OF MEMO

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Queuing Summary

Student Group	Student Enrollment	Schedule	Vehicular Traffic Demand Queue
K-5th Grade	613 Students	7:55 AM- 2:55 PM	Provided: 3,149 LF (134 cars) Required: 3,149 LF (134 cars) Surplus: 0 LF (0 cars)

*Vehicular queue calculated at 23.5 feet/passenger car based on field observations.

Legend

- Safety Patrol
- Bus Loading Area
- Provided Queue
- Bus Queue
- Pedestrian Crossing

The purpose of this Traffic Management Plan (TMP) is to evaluate traffic operations that promote safety and efficient vehicle circulation. This TMP was developed to prevent queuing of drop-off/pick-up related vehicles within the city rights-of-way. The school administration should adhere to this TMP. Any deficiency due to spillover of queuing into undesignated areas of the city rights-of-way, including roadway travel lanes, should be corrected by the school immediately.

I, David Nevarez, P.E. #106200, certify that site constraints preclude the school's ability to accommodate vehicular queue on-site. While it may not be feasible to eliminate queuing in public rights-of-way, establishing a designated school route will lessen impact to neighborhood as well as background traffic on the main roads. This option is subject to approval by the City of Dallas Street Services Department.



Traffic Management Plan
 Stonewall Jackson Elementary School
 5828 E Mockingbird Lane, Dallas, Texas.

EXHIBIT 1