TRAFFIC MANAGEMENT PLAN



Dallas Independent School District Martha Turner Reilly Elementary School

CITY OF DALLAS



Introduction

The services of Pacheco Koch (PK) were retained by Masterplan on behalf of Dallas Independent School District to prepare a Traffic Management Plan (TMP), as requested by the City of Dallas, for the existing Martha Turner Reilly Elementary School described below. The existing elementary school will be demolished, and a new school will be built on the same property.

As described in Appendix A6 of the City of Dallas Street Design Manual, a school Traffic Management Plan is a "site-specific plan providing guidelines to coordinate traffic circulation during school peak hours. TMPs should promote strategies to manage all modes of transportation and maintain student safety paramount at all times. An effective plan requires continual planning, renewed understanding and coordinated efforts by city staff, school administration and staff, neighbors, parents, and students.

This TMP was prepared by registered engineers at Pacheco Koch who are experienced in transportation and traffic engineering (the "Engineer"). Pacheco Koch is a licensed engineering firm based in Dallas, Texas, that provides professional engineering and related services.

The engineer performed most recent on-site dismissal field observations on December 8th, 2021, that validates all information in this report.

1. TMP EXHIBIT

(See attached Exhibit 1 - Traffic Management Plan)





2. SCHOOL LOCATION AND DESCRIPTION

- School site location: 11230 Lippitt Avenue, Dallas, Texas
- Description of adjacent roadways:
 - Adjacent Streets:
 - Lippitt Avenue:
 - Cross-section: Two lanes, two-way operation [eastbound one-way operational during school hours], undivided.
 - Sidewalk connectivity evident along frontage of school. [School Zone]
 - Speed Limit: 30 mph [School Zone of 20 mph]
 - Neering Drive:
 - Cross-section: Two lanes, two-way operation, undivided.
 - Sidewalk connectivity evident along frontage of school. [School Zone]
 - Speed Limit: 30 mph [School Zone of 20 mph]
 - Sunland Street:
 - Cross-section: Two lanes, two-way operation [southbound one-way operational during school hours], undivided.
 - Sidewalk connectivity evident along frontage of school. [School Zone]
 - Speed Limit: 30 mph [School Zone of 20 mph]
 - Flamingo Lane:
 - Cross-section: Two lanes, two-way operation [northbound one-way operational during school hours], undivided.
 - Sidewalk connectivity evident along frontage of school. [School Zone]
 - Speed Limit: 30 mph



Adjacent Intersections:

- Lippitt Avenue and Neering Drive Marked crosswalks on northbound, westbound, and southbound approaches, with barrier free ramps provided on all corners.
- Lippitt Avenue and Sunland Street Marked crosswalks on all approaches, no barrier free ramps provided on any corners. One crossing guard was present for the intersection.
- Sunland Street and Flamingo Lane Marked crosswalks (old and faded) on all approaches, no barrier free ramps provided on any corners.
- Sunland Street and Rupley Lane Marked crosswalks on all approaches, with barrier free ramps provided on all corners.
- Neering Drive and Flamingo Lane Marked crosswalk on westbound approach, no barrier free ramps provided on any corners.

NOTE: It is generally recommended that all applicable crosswalks/barrier free ramps/sidewalks comply with current ADA accessibility requirements. Pacheco Koch is not certified to provide a full ADA compliance inspection, which is performed by licensed inspectors during the design and permitting process. All pavement markings, traffic signs, school zones, and pedestrian infrastructure improvements are recommended to be upgraded at permitting as applicable and meet current city and TMUTCD standards.

3. INGRESS/EGRESS POINTS OF ACCESS

Vehicular Ingress/Egress Points:

Lippitt Avenue: One Driveway

Flamingo Lane: One Driveway

Sunland Street: One Driveway

Student (Building) Ingress/Egress Points:

 Main student pedestrian access will be located at the main entrance on the north side of the school building. Additional access will be provided at the back access point, south of the building.

4. QUEUING SUMMARY TABLE

The following table presents the projected queuing vehicle accumulation for the subject campus. The calculations for vehicle accumulation and parking are based



upon estimated ratios – estimated linear feet of queue per student – along with the assumptions provided by Dallas Independent School District for this campus have been validated by on-site dismissal observations conducted on December 8th, 2021. All information provided in the table below is strictly for the afternoon student pick-up release period.

See Section 12(b) for specific information on the methodology and calculations used in the table below. Specific separation of modes of transportation was provided by DISD and is provided in Section 6.

Queuing Summary Table

Dismissal Period (Loading Zone)	Grades	Start/End Times	Total Enrollment	Maximum Vehicle Accumulation	(On-Site) Storage Capacity (veh)	Surplus /Deficit (veh)
1	Pre-K – Kinder	7:45 AM – 2:45 PM	Pre-K /Kinder – 129	24	70	46
2	1 st – 5 th	7:45 AM – 3:00 PM	1 st - 5 th – 377	70	70	0

5. CIRCULATION

This section provides on-site traffic circulation, including any temporary traffic control devices.

On-Site Circulation:

• Pre-K - Kinder:

Parent traffic is to enter the area traveling along Lippitt Avenue and enter the site via the driveway on Lippitt Avenue between Neering Drive and Sunland Street.

Circulation is provided on-site and to circulate in a counterclockwise traffic flow. (See **Exhibit 1**).

Traffic is to exit the queueing area continuing north for the north queue after the vehicle has sufficiently unloaded/loaded the student(s) exiting/entering the vehicle. Traffic is then to exit the site onto Lippitt Avenue.

• 1st Grade – 3rd Grade:

Parent traffic is to enter the area traveling along Lippitt Avenue and enter the site via the driveway on Lippitt Avenue between Neering Drive and Sunland Street.

Also, queuing will be provided south of the school building, on site entering Sunland Street.



Circulation for both queuing areas is provided on-site and to circulate in a counterclockwise traffic flow. (See **Exhibit 1**).

Traffic is to exit the queueing area continuing north for the north queue and south for the south queue, respectively, after the vehicle has sufficiently unloaded/loaded the student(s) exiting/entering the vehicle. North queue traffic is then to exit the site onto Lippitt Avenue while the south queue traffic is to exit onto Flamingo Lane.

School buses load and unload students within the south parking lot onsite (as shown in **Exhibit 1**).

Staff and visitor parking lots are provided north of the building. The parking lot west of the school building along the south of the building will provide additional parking, as well.

Temporary traffic control devices:

• Cones are to be place along the northern parking lot (as shown in **Exhibit 1**) to redirect traffic.

6. DROP-OFF/PICK-UP COORDINATION

This section provides proposed student drop-off/pick-up coordination information.

• Passenger ID system:

o Managed Loading System

NOTE: A "managed loading system" at schools refers to the established protocol for picking up passengers at a specific release time. Passenger loading and vehicle departures are sequential based upon order of arrival. During a prior coordination phase, drivers are provided with some form of identification that school personnel observe upon arrival so that the corresponding passenger is prepped for loading before the vehicle arrives at the designated loading area.

• Separation of modes of transportation:

o Bus: 10%

o Walk: 5%

o Picked Up by Parent: 85%

NOTE: Information provided by Dallas Independent School District and validated with field observations

• Staggered times:

- o 7:45 AM 2:45 PM (Pre-Kindergarten Kinder)
- \circ 7:45 AM 3:00 PM (1st 5th)



7. SCHOOL STAFF ASSISTANCE

• Number:

o Observed: 2 - 5 staff members

o Desired: 2 - 5 staff members

Location:

o Observed: Beginning of queue line

Desired: Beginning of queue line

• Staff Requirements and expectations:

 Staff assistance shall be present to allow students to enter and exit the school building in a safe and efficient manner.

8. ADULT SCHOOL CROSSING GUARDS AND/OR OFF-DUTY DEPUTIZED OFFICERS

• Number:

Observed: 1 crossing guard

Desired: 1 crossing guard

Location:

o Observed: Intersection of Lippitt Avenue and Sunland Street

Desired: Intersection of Lippitt Avenue and Sunland Street



9. SCHOOL ADMINISTRATION INPUT STATEMENT

The engineer collaborated with both the School District personnel and on-site staff/principal and Student Transportation Services as needed, before and during the process of creation of the Traffic Management Plan.

The site engineer, the architect and the traffic engineer have collaborated the traffic patterns of parent routes, bus routes, and recommendations of the TMP with the on-site and District personnel. The onsite and District personnel have completed a thorough review and any changes that have been discussed have been applied to this version of the plan.

REVIEW AND COMMITMENT							
This school traffic management plan (TMP) for Martha Turner Reilly Elementary School was developed with the intent of optimizing safety and efficiently accommodating vehicular traffic generated during the school's typical student drop-off and pick-up periods. This plan was developed with direct input from individuals familiar with the general characteristics of the traffic needs of the school. It is important to note that a concerted and ongoing effort by and the full participation of the school administration are essential to accomplish these goals.							
implement, adhere to, and support the s	e school administration hereby agrees to strategies presented in this TMP for which the he City of Dallas deems those strategies are no are more appropriate.						
Principal Signature	Date						
Name:							
Title:							
Police Department Signature	Date						
Name:							
Title:							

10. ENGINEER SEAL

This report is signed, stamped, and dated by a licensed Professional Engineer in the State of Texas with specific expertise in transportation and traffic engineering.



11. REPORT FORMAT

This report follows the City of Dallas Traffic Management Plan format as described in Appendix A6 of the City of Dallas Street Design Manual.

12. OTHER ITEMS WHERE APPLICABLE

- a) School Bus Operations:
- b) Methodology:
 - a. Engineer Recommended Rate: 5.12 linear feet per student
 - b. Average Length of Vehicle: 23.5 feet
 - c. Separation of modes of transportation:
 - i. Bus: 10%
 - ii. Walk: 5%
 - iii. Picked Up by Parent: 85%

NOTE: Information provided by Dallas Independent School District and validated with field observations

- d. Projected maximum vehicle accumulation: 70
- e. Projected on-site storage capacity: 70
- f. Surplus/Deficit: 0
- c) Pedestrian Routes: The pedestrian routes are based on the attendance zone map when finalized. The attendance zone was not provided at the time of this study however, the anticipated (and observed) pedestrian routes include the sidewalk paths along Sunland Street and Lippitt Avenue.
- d) Parking Management Strategies:
 - a. On-street parking restrictions: none
 - b. Faculty Parking: on-site
 - c. Visitor Parking: on-site
- e) Recommendations for walking/biking: (See below)
- f) Other Recommendations (if applicable): (See below)
- g) Traffic Control (Signage) Plan: Not Appliable

END OF MEMO

