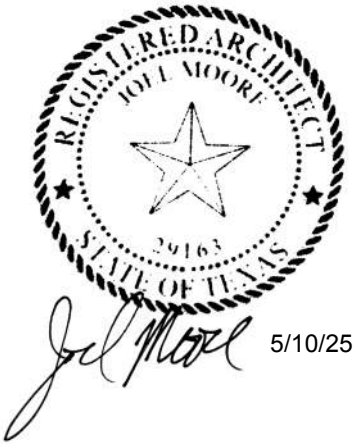


5/10/25

SCHOOL REVIEW AND COMMITMENT

This plan was developed for The St. Constantine School with the intent of optimizing safety and efficiency related to vehicular traffic generated by the School during peak traffic periods. A concerted effort and full participation by the School administration, staff, students and parents are essential to maintain safe and efficient traffic operations.

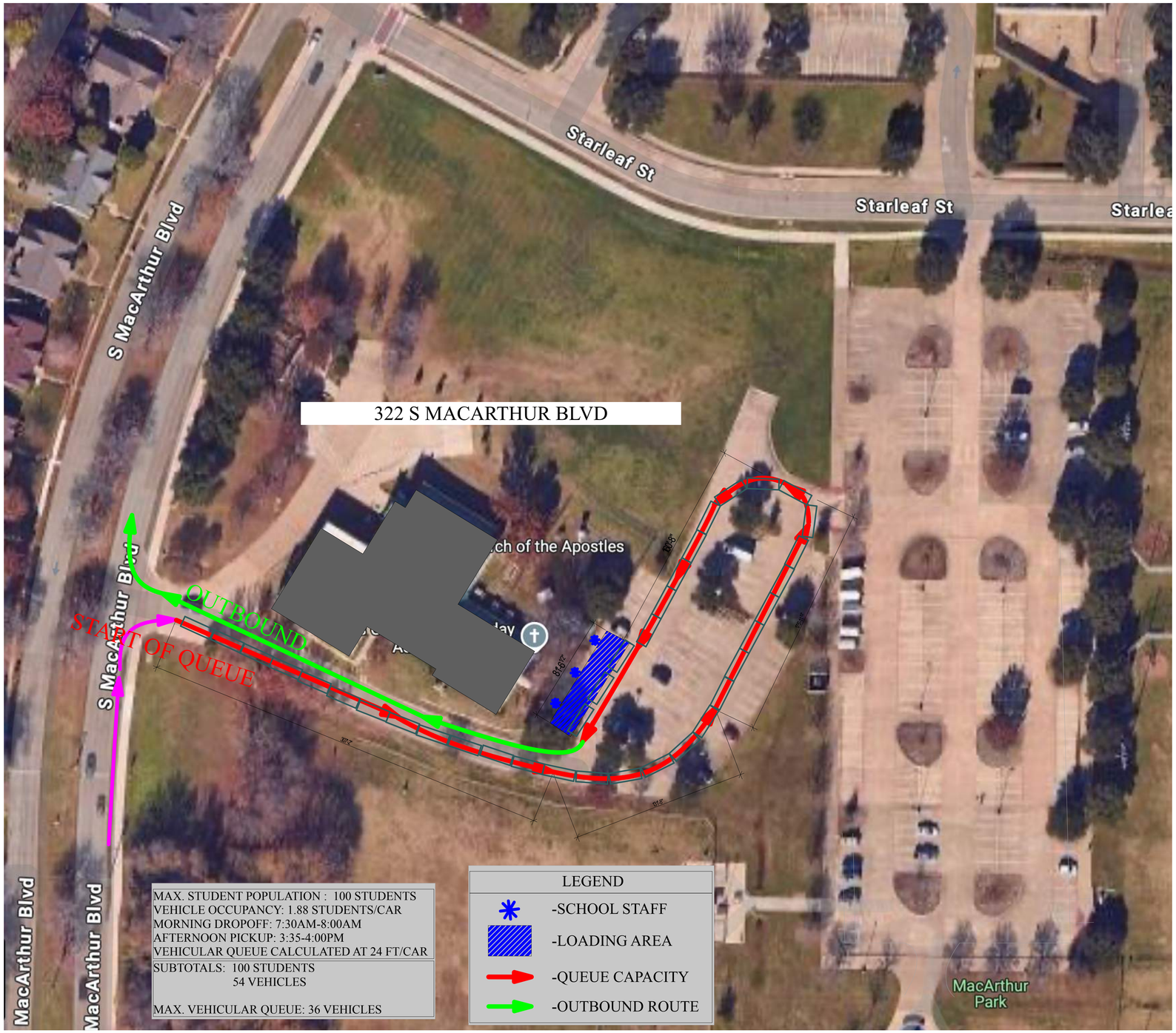
The School has reviewed the Traffic Circulation Study and is in support of the strategies presented herein.

The School is committed to continually reviewing and assessing the effectiveness of the TCS and if warranted, will implement changes in the interest of increasing safety, efficiency and minimizing impacts on the surrounded community.

_____ _____

Bond Palmore, Date

The St. Constantine School



N

1 TRAFFIC CIRCULATION STUDY

SCALE: 1" = 40'

EXHIBIT 1

/Users/wsoffice/Library/CloudStorage/OneDrive-Personal/Wrought Substance/001 OLD/TSCS/TSCS TRAFFIC STUDY.pln

Wrought Substance LLC
3620 Courtdale Dr Farmers Branch TX 75234
design@wroughtsubstance.com (661) 302-1185

PROJECT ADDRESS:
322 S MACARTHUR BLVD COPPELL Texas 75019

RENOVATION FOR
THE ST. CONSTANTINE SCHOOL

6/2/25

ISSUE	DATE	REMARKS
Permit Set	6/2/25	

REGISTERED ARCHITECT
JOEL MOORE
STATE OF TEXAS
6/2/25

EXHIBIT 1

A-107

Technical Memorandum

To: The St. Constantine School- Catharine Clayton, Bond Palmore
From: Joel Moore, RA, NCARB
Date: May 09, 2025
Re: Traffic Circulation Study, The St. Constantine School

6/2/25

INTRODUCTION

Wrought Substance is an architecture firm based in Dallas, Texas, providing licensed architects and planners skilled in the field of architecture and planning. The services of Wrought Substance were retained by The St. Constantine School to develop a Traffic Circulation Study (TCS) for their campus located at 322 S MacArthur Blvd, Coppell, Texas.
The academic institution is expected to serve a population up to 100 students upon opening. Students will range in age from either 3 to 18 years old.
By consent of the TCS, the school agrees to be held self-accountable for the enforcement of the strategies presented herein until and unless the City of Coppell deems further measures are necessary.
(NOTE: In this report, the term “parent” refers to any individual who is involved in the drop-off or pick-up of one or more students at the school).

TRAFFIC CIRCULATION STUDY

A school TCS 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 critical periods, the safety and efficiency of other modes of travel—including pedestrian traffic—will also inherently improve and the operational impact on the public street system should also be minimized. This plan, however, should not be considered a comprehensive set of instructions to ensure adequate safety; it should be used as a tool to facilitate a safer and more efficient environment.

The analysis summarized below identifies the projected vehicle demand including parking and queuing space (i.e. vehicle stacking) needed on site to accommodated projected school traffic demand during peak periods. A concerted effort and full participation by the school administration, staff, and parents are essential to maintain safe and efficient traffic operations. The use of designated parking and queuing areas is necessary to minimize the operational impact on adjacent properties and the public street system.

Site Access and Circulation

The school site is accessed via one driveway: The drive on S MacArthur Blvd will be used for both queue ingress and for egress and access to parking.

School Operational Characteristics

The St. Constantine School is expected to serve a student population of an age group from 3 to 18 years old. As confirmed by school representatives, the morning drop-off period will be from 7:30 - 8:00AM, while the afternoon pick-up period will be from 3:35 - 4:00 PM.

Site Circulation and Passenger Loading/Unloading

During drop-off periods, parents enter the campus to unload students within the site. All parents will enter via the northern driveway and queue along the designated path. Students will be loaded and unloaded near the pathway adjacent to the south eastern entry as depicted in Exhibit 1.
It should noted that some parents will choose to park and walk their students to school to drop them off as well as pick them up in the afternoon.

Vehicular Queuing Analysis

The on-site drop-off/pick-up queue length is approximately 855 linear-feet (LF) or approximately 36 vehicles at a rate of 24 LF per vehicle. Thirty six vehicles can comfortably fit in the on-site queue at once. Given a 25 minute drop-off period, it should take approximately 28 seconds to load each vehicle on average.
Given the age of the students and to facilitate a safe and timely loading of students into parent vehicles, staff members should be present as shown in Exhibit 1. Up to 3 vehicles can be loading/unloaded at a time.

RECOMMENDATIONS

Typically, a significant percentage of parents will arrive to pick-up their student 5-15 minutes before the designated afternoon pick-up period. This often causes delays in the queue and could lead to queue spillover onto the public right-of-way. The St. Constantine School should encourage parents to arrive on-time to prevent this from occurring. It is further recommended that the school adhere to the attached TCS exhibit to the greatest extent possible to facilitate the safe, efficient, and timely loading and unloading of students.