

**TRAFFIC STUDY**

**For**

**Highland Park High School**

**In University Park, Texas**

*Prepared*

*For*

**Highland Park Independent School District**

**May 4, 2017**

*By*



*Larry W. Cervenka*  
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**Larry W. Cervenka, P.E.**

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## **EXECUTIVE SUMMARY**

The purpose of conducting this Traffic Study was to evaluate the vehicular impact of the proposed at grade parking lots that would accommodate students (juniors and seniors), teachers, and volunteers for Highland Park High School located southwest of the intersection of Lovers Lane and Preston Road in University Park.

The Levels of Service were determined for existing conditions (2017) and for the at grade parking locations with the assumption that the classroom improvements and the parking lot improvements would be constructed by 2020 with an increase in the student population of 800 students.

## **CAPACITY ANALYSIS**

The analysis of the existing conditions (traffic controls and lane configurations), indicated that the overall intersection Level of Service was acceptable. There were some approaches that had Levels of Service less than a desirable C or D; however, these are the approaches most impacted by school traffic.

Intersections with approaches with a less than desirable Levels of Service were northbound Douglas Avenue at Lovers Lane and Lovers Lane at Westchester.

## **RECOMMENDATIONS**

Based on the results of the analyses and observations conducted as part of this traffic study, the following recommendations are provided. These improvements are needed to accommodate existing traffic and traffic from the proposed surface parking locations.

## **INTERSECTION IMPROVEMENTS**

None: Although the Level of Service is slightly less with new trips, there is no Right of Way available for intersection improvements. Also, the majority of new trips are right turns and there is an extensive right turn only lane which can accommodate this traffic.

## **ON-STREET PARKING RESTRICTIONS AND MARKING**

Emerson Avenue:

- Mark a loading/unloading zone/lane adjacent to the head-in parking stalls. This lane would be extended to Douglas Avenue.
- Cars cannot leave or enter parking stalls 30 minutes before or after the end of school.
- The short two-section between the north and south sections of Westchester Drive should be marked with a double-yellow marking to clearly indicate that this is a two way roadway to eliminate potential conflicts.