San Domenico School Traffic Overview

Background

On behalf of San Domenico School, Parisi Transportation Consulting was tasked with assessing existing traffic conditions within Sleepy Hollow, including the school’s current vehicle trip patterns. The current study was based on comparable factors as the 1998 study and is intended to be of help to the community as the school strives to update their current traffic management plan.

Traffic Volumes and School Trips

- Intersection counts were conducted at 5 intersections during the weekday AM peak hour (7:45-8:45 AM), school PM peak hour (3:00-4:00 PM), and evening PM peak hour (5:00-6:00 PM); these are the same 5 intersections as evaluated in 1995 traffic study (see Figure 1)
- Roadway counts were conducted across Butterfield Road at 3 locations on weekdays, Saturday and Sunday (see Figures 2A and 2B)
- Peak hour vehicle-trips to and from San Domenico were estimated based on surveys and existing trip patterns (see Figure 3)
- San Domenico’s peak traffic flows are generally in the opposite direction of overall AM and PM peak hour traffic on Butterfield Road
- San Domenico’s peak traffic flows northbound during AM peak hour and southbound during the PM peak hour (traffic is slightly higher in the southbound direction during the school PM peak hour)
- Vehicle-trips associated with San Domenico have decreased over the years, and are lower than the number of trips the school generated in 1995
- San Domenico vehicle-trips are a small proportion of overall trips along the Butterfield Road corridor; nearby public schools are generating substantially more trips per enrolled student
- Traffic congestion during school commute periods often occurs due to yellow school bus stops and school crosswalks
- Speeding is often cited as a neighborhood concern
Community Trips

- San Domenico’s campus is open and its use is not restricted for school use only; community use is currently allowed by the school
- On days when school was not in session and most staff were not on campus traffic counts were compiled over 3 years (school years 2015-16 through 2017/18) (see Figure 4)
- The 3-year counts showed an average of 444 trips on weekdays, 355 trips on Saturdays, and 288 trips on Sundays; note that 1 vehicle traveling into and out of San Domenico makes 2 trips
- Based on San Domenico’s estimates, at most 100 school-related trips were made during these weekdays and up to 50 school-related trips were made on Saturdays and Sundays
- Thus, on average non-school (i.e., “community”) trips are about 344 vehicle trips on weekdays, 304 vehicle-trips on Saturdays, and 238 vehicle-trips on Sundays

Proposed Traffic Standards

- 1998 traffic standards included 12 separate metrics: 4 for weekday AM peak hour, 1 for school PM peak hour, 4 for PM peak hour, 1 for daily weekday, 1 for daily Saturday, and 1 for daily Sunday
- Some of the 20-year old standards are based on the non-peak direction of traffic
- The proposed peak hour standards would better align with current and expected future peak traffic flows and traffic effects experienced by the neighborhood; the new standards would also allow minor increases in school-related traffic
- The proposed daily standards would account for the inclusion of non-school (i.e., “community”) trips
Roadway Performance

- Preliminary traffic analysis shows that traffic levels matching the proposed weekday peak hour standards would not increase vehicular delays along Butterfield Road

- “Level-of-service” at intersections, including for side-street movements, would not exceed County of Marin standards

- San Domenico would continue its commitment to its robust yellow school bus program

- San Domenico would continue to work with the County to identify traffic safety and calming measures that could be implemented along Butterfield Road
San Domenico School Traffic Study
Figure 1: Vehicular Traffic Volumes - Existing Conditions
San Domenico School Traffic Study

Figure 2A: Average Daily Traffic Total Volumes

- **Average Weekday Total Volumes**
- **Saturday Total Volumes**
- **Sunday Total Volumes**

San Domenico School Traffic Study
Figure 2B: Average Daily Traffic Volumes - By Direction
San Domenico School Traffic Study
Figure 3: Existing San Domenico Trips

LEGEND: xx = Estimated San Domenico Hourly Traffic Volumes
Weekday
Holiday Break, Thanksgiving, Summer (No Summer Camp)

![Graph showing trips on non-school days for weekdays.]

- 3-Year Average: 444 Trips (n=57)
- 1-Year Average: 420 Trips (n=21)

Saturday
Holiday Break, Thanksgiving, Summer (No Summer Camp)

![Graph showing trips on non-school days for Saturdays.]

- 3-Year Average: 355 Trips (n=28)
- 1-Year Average: 318 Trips (n=10)

Sunday
Holiday Break, Thanksgiving, Summer (No Summer Camp)

![Graph showing trips on non-school days for Sundays.]

- 3-Year Average: 288 Trips (n=29)
- 1-Year Average: 306 Trips (n=10)