

MEMORANDUM

To: Brian Froelich, AICP, Senior Planner, City of Capitola
Jessica Kahn, Public Works Director, City of Capitola

From: Dennis Pascua, Transportation Services Manager

Subject: 4401 Capitola Road: Traffic Safety Review

Date: February 22, 2023

cc: Stephanie Strelow, Principal

Attachment(s): TIMS Collision Data

The following is a review of traffic safety issues for the proposed affordable housing project at 4401 Capitola Road (proposed project). This review will focus on the project's driveways proposed on 44th Avenue and at the 45th Avenue/Capitola Road intersection. Where applicable, the *4401 Capitola Road: 45th Avenue/Capitola Road Traffic Analysis* (Dudek, November 2022) will be referenced. This memorandum is intended to supplement the traffic analysis prepared for the proposed project.

The proposed project would develop 36 affordable multifamily dwelling units (DU) on the property at 4401 Capitola Road, on the northwest corner of the intersection of 45th Avenue/Capitola Road. Currently there are four standalone office buildings on the site ranging between 924 and 925 square feet (SF) each, for a total office square footage of 3,697 SF. These office buildings will be demolished in order to construct the proposed project. There will be two parking lots on the project site. A 15-space lot will be provided on the northwest portion of the site, with driveway access on 44th Avenue, and a 21-space lot will be provided on the east side of the site, with driveway access on the north leg of the 45th Avenue/Capitola Road intersection. In order to properly place the new driveway on the north leg of the intersection, the existing continental crosswalk will be relocated slightly to the west. The crosswalk relocation will require modification of the existing median on Capitola Road.

1 Traffic Safety Review

1.1 Project Trip Generation

The proposed project and adjacent existing single-family home are very low traffic generators. As reported in the project's traffic analysis (Dudek 2022), the proposed project would generate 173 daily trips, 13 AM peak hour trips (4 inbound and 9 outbound), and 17 PM peak hour trips (10 inbound and 7 outbound). The existing office buildings generate 53 daily trips, 6 AM peak hour trips (5 inbound and 1 outbound), and 8 PM peak hour trips (3 inbound and 5 outbound). With the removal of the existing office buildings, the net trips generated by the project are 120 daily trips, 7 AM peak hour trips (-1 inbound and 8 outbound), and 8 PM peak hour trips (7 inbound and 1 outbound).

Per ITE rates, the existing single-family home generates approximately 9 daily trips, 1 AM peak hour trip, and 1 PM peak hour trips.

As noted above, the proposed project and adjacent existing single-family home are very low traffic generators. There will be relatively low traffic volumes entering/exiting the project's driveways during the peak hours (5 vehicles at 44th Avenue driveway and 9 vehicles at 45th Avenue driveway in the AM peak hour; and, 7 vehicles at 44th Avenue driveway and 11 vehicles at 45th Avenue driveway in the PM peak hour). Per the LOS analysis, added vehicle delays from the project at the 45th Avenue/Capitola intersection would be very low (1.8 seconds). The low volume of project traffic added from the project's driveways and the minor delay increase at the 45th Avenue/Capitola Road intersection would not likely increase traffic safety issues at the project's driveways.

1.2 Vehicle, Pedestrian, and Bicycle Movements at 45th Avenue/Capitola Road

As reported in the project's traffic analysis, in the existing condition of the 45th Avenue/Capitola Road intersection (with project driveway), the AM peak hour was from 8:00 a.m. to 9:00 a.m. and a total of 650 vehicles, 5 bicyclists, and 5 pedestrians passed through the intersection. The PM peak hour was from 4:30 p.m. to 5:30 p.m. and a total of 1,148 vehicles, 15 bicyclists, and 29 pedestrians passed through the intersection.

The intersection (project driveway) is an all-way stop-controlled intersection where all stopped vehicles, at all approaches, are required by the California Vehicle Code (CVC) to give the other vehicle, bicyclists, and pedestrians traveling through in the intersection, their rights-of-way. With this type of intersection traffic control, traffic safety issues would likely not be increased at this project driveway. The project driveway on 44th Avenue would have significantly less traffic, pedestrians, and bicyclists crossing the driveway approach.

1.3 Driveway Sight Distance

There is adequate sight distance from all approaches of both project driveways. The driveway on 45th Avenue currently has well-marked Continental crosswalks, and a well-marked Continental crosswalk exists at 44th Avenue/Capitola Road, near the other project driveway. Both driveways are clear of sight obstructions and on-street parking is restricted on Capitola Avenue because of the existing Class II (striped) bike lanes. The existing trees along Capitola Road are also maintained so that their tree canopies are kept high in order to not obstruct vehicular sight distance.

1.4 Collision History

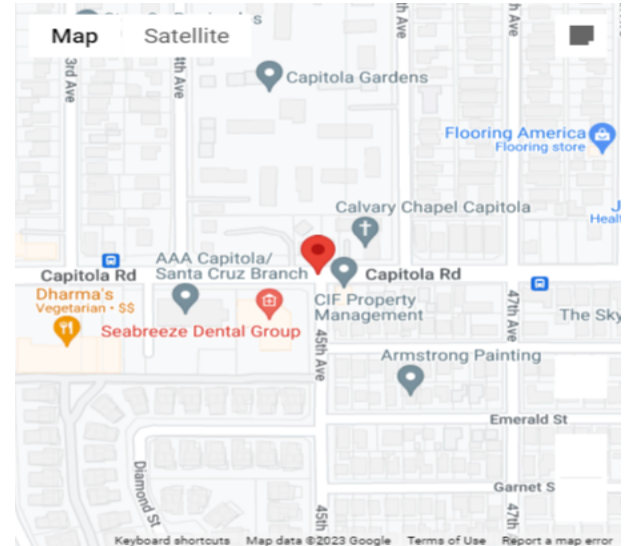
Collisions near the project site, along Capitola Road at its intersections with 44th Avenue and 45th Avenue, were reviewed in the Transportation Injury Mapping System (TIMS) which also includes collision data from the Statewide Integrated Traffic Records System (SWITRS). There were two collisions reported within a five-year period. Both collisions involved vehicle-to-pedestrian collisions and the at-fault party were the vehicles who failed to yield the right-of-way. The collisions were not related to any movements at the existing single-family residential driveway on the north leg or the design of the intersection. The TIMS collision data is attached.

Transportation

Crash Information

County	Santa Cruz		
City	Capitola		
Date & Time (M/D/Y)	12/12/2016 18:10		
Location (Intersection)	Capitola Rd & 45th Av		
Dist. & Dir. from Intersection	At Intersection		
State Highway	No		
Geocoded Location	36.97372, -121.9598099		
Type of Crash	G - Vehicle/Pedestrian		
Motor Vehicle Involved With	B - Pedestrian		
Crash Severity	3 - Injury (Other Visible)		
PCF Violation Category	10 - Pedestrian Right of Way		
Weather	A - Clear		
Alcohol Involved	No		
Pedestrian Accident	Yes	Bicycle Accident	No
Motorcycle Accident	No	Truck Accident	No

Map View



Street View



Parties: 2

Party Number	Party Type	Statewide Vehicle Type	At Fault	Party Direction	Movement Preceding Collision
1	1 - Driver (including Hit and Run)	A - Passenger Car/Station Wagon	Yes	West	E - Making Left Turn
2	2 - Pedestrian	N - Pedestrian	No	-	R - Other

Victims: 1

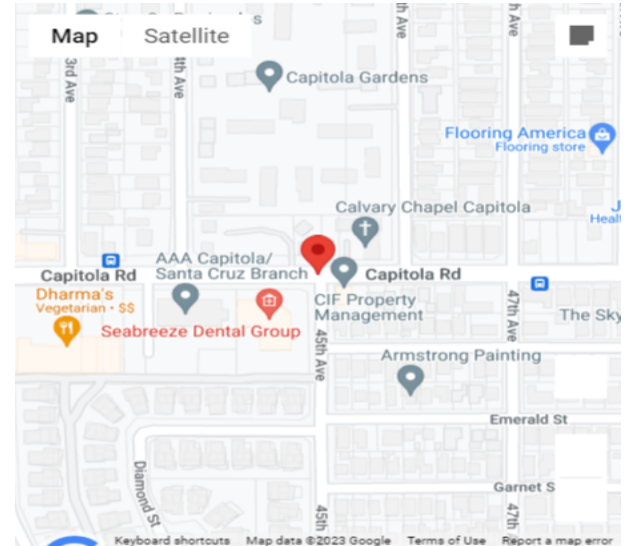
Party Number	Victim Role	Victim Gender	Victim Age	Victim Degree of Injury
2	3 - Pedestrian	F - Female	26	6 - Suspected Minor Injury

Transportation

Crash Information

County	Santa Cruz		
City	Capitola		
Date & Time (M/D/Y)	01/18/2021 10:50		
Location (Intersection)	Capitola Rd & 45th Av		
Dist. & Dir. from Intersection	At Intersection		
State Highway	No		
Geocoded Location	36.9737206, -121.9598083		
Type of Crash	G - Vehicle/Pedestrian		
Motor Vehicle Involved With	B - Pedestrian		
Crash Severity	4 - Injury (Complaint of Pain)		
PCF Violation Category	10 - Pedestrian Right of Way		
Weather	A - Clear		
Alcohol Involved	No		
Pedestrian Accident	Yes	Bicycle Accident	No
Motorcycle Accident	No	Truck Accident	No

Map View



Street View



Parties: 2

Party Number	Party Type	Statewide Vehicle Type	At Fault	Party Direction	Movement Preceding Collision
1	1 - Driver (including Hit and Run)	A - Passenger Car/Station Wagon	Yes	East	-- Not Stated
2	2 - Pedestrian	N - Pedestrian	No	South	-- Not Stated

Victims: 1

Party Number	Victim Role	Victim Gender	Victim Age	Victim Degree of Injury
2	3 - Pedestrian	F - Female	32	7 - Possible Injury