Visual Survey
Grade Crossings & Separations in Palo Alto
May 20, 2017
Symbology for Data

- **Average Daily Traffic ( )* **
- **Level of Service (A-F)(AM/PM Peak hour) **
- **No. of lanes **

- **Bike Lane **
- **Accidents (2011-13) **
- **Signal Control **
- **Stop Control **

*Source: Grade Crossing Hazard Analysis Final Report, Caltrain 2016*
Symbology for Grade Crossings & Separations

**Existing**

- At-Grade Crossing (car/track same grade)
- Trail At-Grade crossing
- Undercrossing (car under track)
- Overcrossing (car over track)

**Existing**

- Trail/Car Undercrossing (car/ped under track)
- Trail Overcrossing (trail over track)
- Trail/Car Overcrossing (trail/car over track)

**Planned**

- At-Grade Crossing (car/track same grade)
1 - Palo Alto Ave (Alma) Grade Crossing

- El Camino & El Palo Alto Parks adjacent
- Palo Alto Caltrain Station & Downtown just south
- University Ave grade separation just south
- Stanford Mall to the west
- Residential to the east

15,000
B/D
2
0
El Camino
Alma
YES
1 - Palo Alto Ave (Alma) Grade Crossing

Looking West
- Trail on the right
- Bike lanes
- Pavement markings

Looking East
- No signal at Alma
- RR signage
- Lane and ped gates
- University Ave Grade Separation just south
- Residential on the east
- Palo Alto Transit Center just south
- Stanford Mall west of El Camino
University Ave Grade Separation

- Ped path & Undercrossing
- Connects US 101 & El Camino Real
- Full access at Alma St & El Camino
- Adjacent to Palo Alto Station
- Undercrossing for Caltrain & El Camino

19,000

C

4

No
3 - University Ave Grade Separation

- Under Caltrain
- 4 lanes
- Ped access

- Entrance to Stanford University
3 - University Ave Grade Separation

- Under El Camino
- Looking West

- Looking East
4 - Homer Ave Bike/Ped Undercrossing

Looking East
5 - Embarcadero Grade Separation

- Connects US 101 to El Camino
- Next to Stanford University
- Embarcadero is under the tracks
- No local road access
- Bike/ Pedestrian access

25,000
D
3
Yes
5 - Embarcadero Grade Separation

- Embarcadero is under the tracks
- No local road access
- Pedestrian/ Bike access

- Looking West
6 - Churchill Ave Grade Crossing

- Mostly residential
- Palo Alto High School to the west
- Castelleja School on the east
- Stanford Station north west

11,000
B/C
2
13
YES
El Camino
6 - Churchill Ave Grade Crossing

- Gates for lanes/sidewalk
- RR striping & signage
- On street bike lanes

Looking East
7 - Oregon Expressway Grade Separation

- Underpass with Caltrain & El Camino
- Full access at Alma & Park Blvd

31,000 vehicles per day

4 lanes

No bike lane
7 - Oregon Expressway Grade Separation

Looking West

Looking East
8 – Loma Verde Ave Bike/ Ped Crossing

- Mostly residential all around
- Meadow Dr south of this location
• Mostly residential
• Robles Park to the south
• JLS, Hoover and Fair Meadow schools all on same block, with students using both Meadow and Charleston (aka “Super Block”)

CITY OF PALO ALTO
9 - Meadow Dr Grade Crossing

Looking West
- Sidewalks
- Bike lanes
- Pavement markings
- Gates
- Signage
10 - Charleston Rd Grade Crossing

- JLS, Hoover and Fair Meadow schools all on same block, with students using both Meadow and Charleston (aka "Super Block")
- Cubberley Community Center to the east
- Robles Park to the west
- Stanford shopping mall to the south

16,000
D/D
2
11
Yes
@ El Camino and Alma
10 - Charleston Rd Grade Crossing

Looking West
- Gates
- Bike Lanes
- Sidewalk
10 - Charleston Rd Grade Crossing

Looking East
- Gates
- Bike Lanes
- Sidewalk
- Pavement markings
- signage
• San Antonio Caltrain Station on the South
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