



Pedestrian Hybrid Beacon System Crossing at Calle Real Near Encina

October 16, 2018

Teresa Lopes, Senior Project Engineer

Background

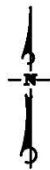
Project Purpose

Install a Pedestrian Hybrid Beacon (PHB) across Calle Real west of Encina

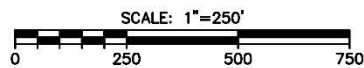
- Provide an additional controlled crossing for pedestrians on Calle Real between 2 existing controlled crossings
- Pedestrian Improvements along Calle Real Commercial District
- Improve Pedestrian Access for Seniors
- Encina Royale and Encina Meadows Communities – Over 500 residential units



111 East Victoria Street
Santa Barbara CA
www.stantec.com



Legend



Notes



EXISTING CONTROLLED CROSSING



PROPOSED CONTROLLED CROSSING

Client/Project

City of Goleta
Calle Real
Pedestrian Hybrid Beacon

Figure No.

Title

Existing and Proposed Pedestrian Crossing Locations
Calle Real

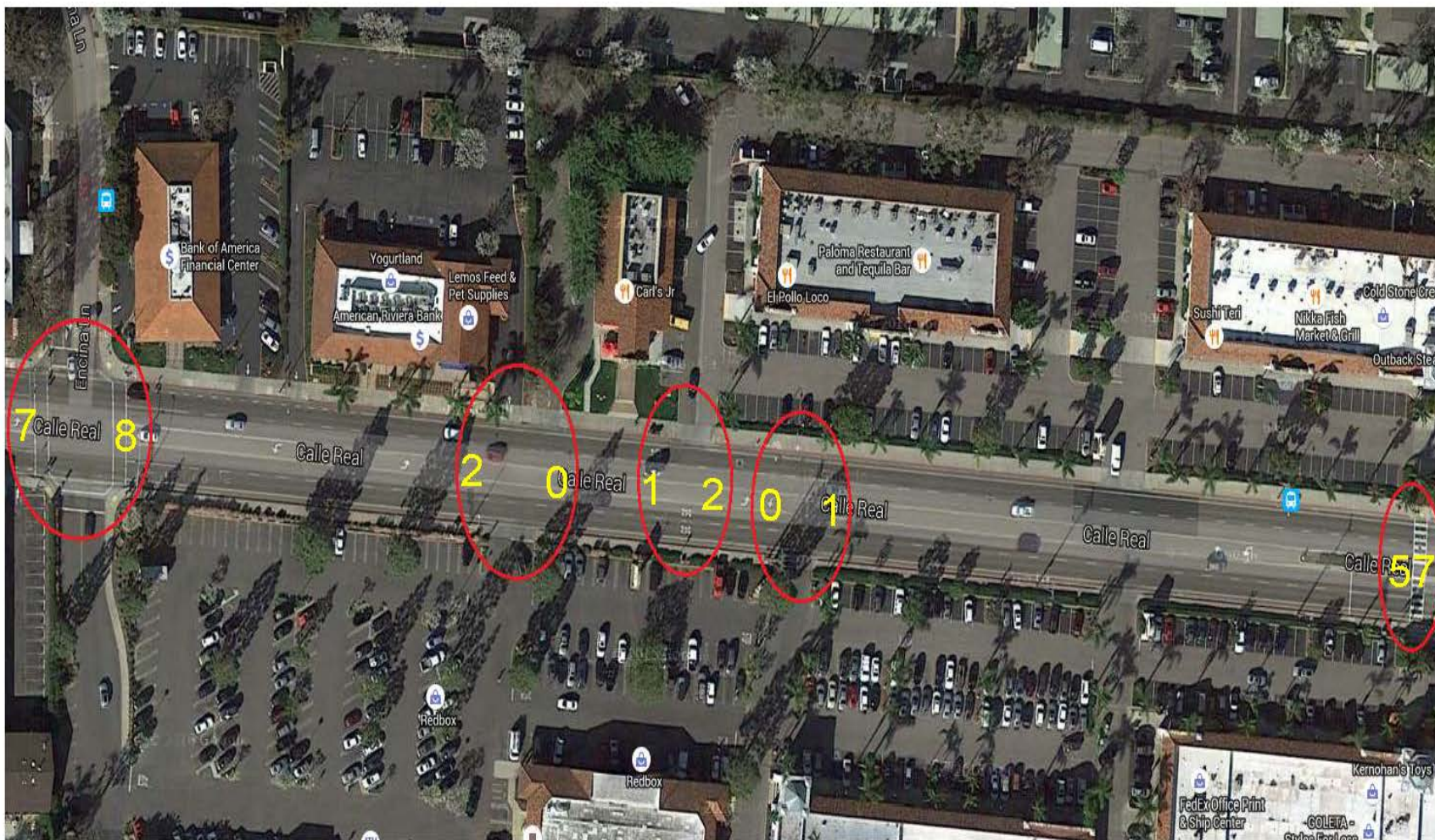
Existing Conditions

Calle Real

- 64 ft road width
- 2 travel lanes in each direction plus center left turn lane
- 5 ft Class II bike lanes in each direction
- 35 mph posted speed limit at proposed crossing location
- ADT 15,000 vehicles per day

Existing Conditions – Deficiencies

- Existing protected pedestrian crossings along Calle Real over 1100 ft apart
- The distance between the existing crossings is challenging for seniors and those with decreased mobility
- High Vehicle Speeds and Inadequate gaps in traffic for pedestrians to cross – must use controlled crossings
- Long periods of time for large enough gaps in traffic to cross during peak periods – long pedestrian delay – need to use a controlled crossing
- California Manual on Uniform Traffic Control Devices (CAMUTCD) states these are typical conditions where a PHB is considered



PM Peak Hour Calle Real Crossings of Pedestrians and Bicyclists

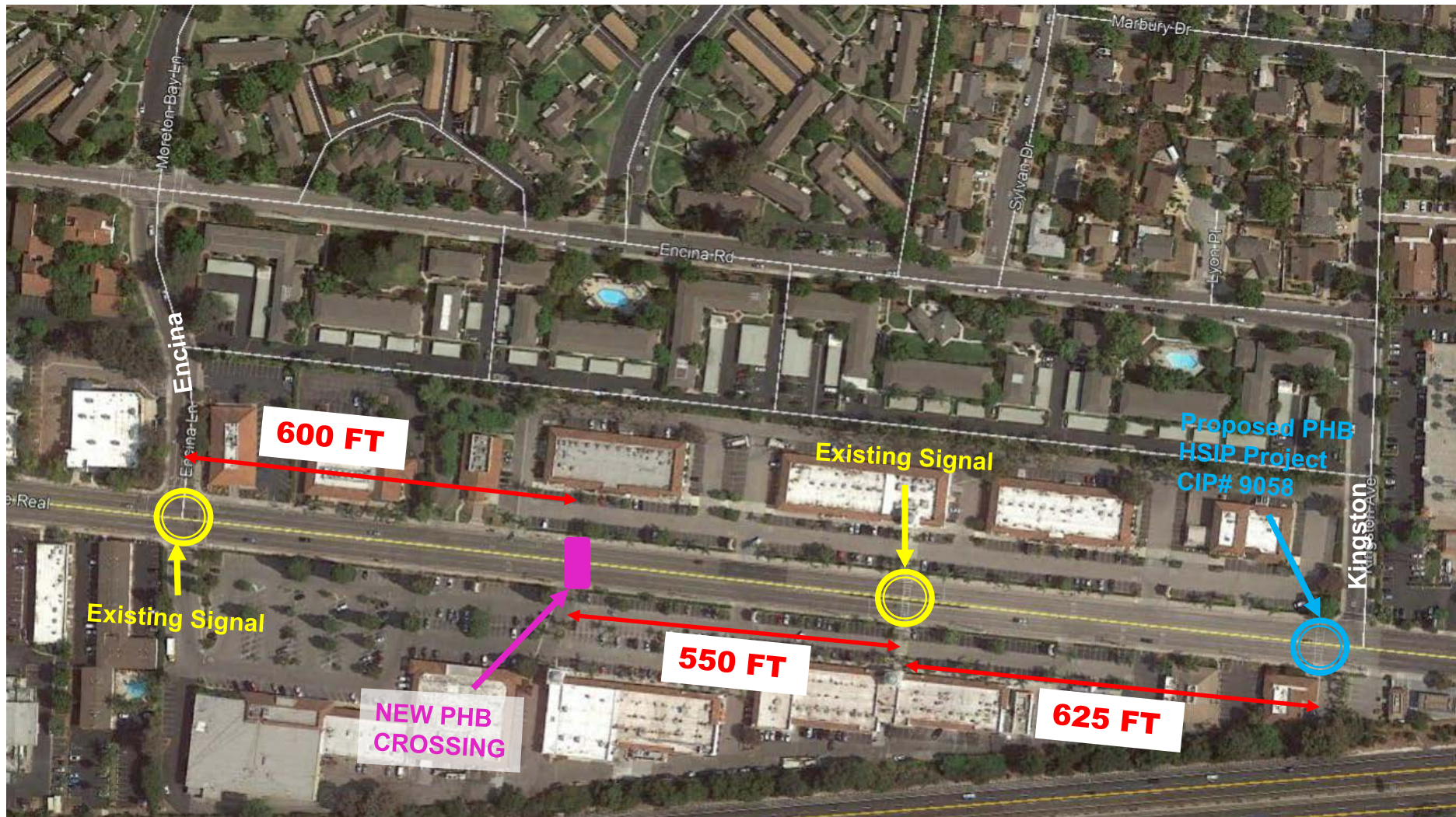
Pedestrian Survey

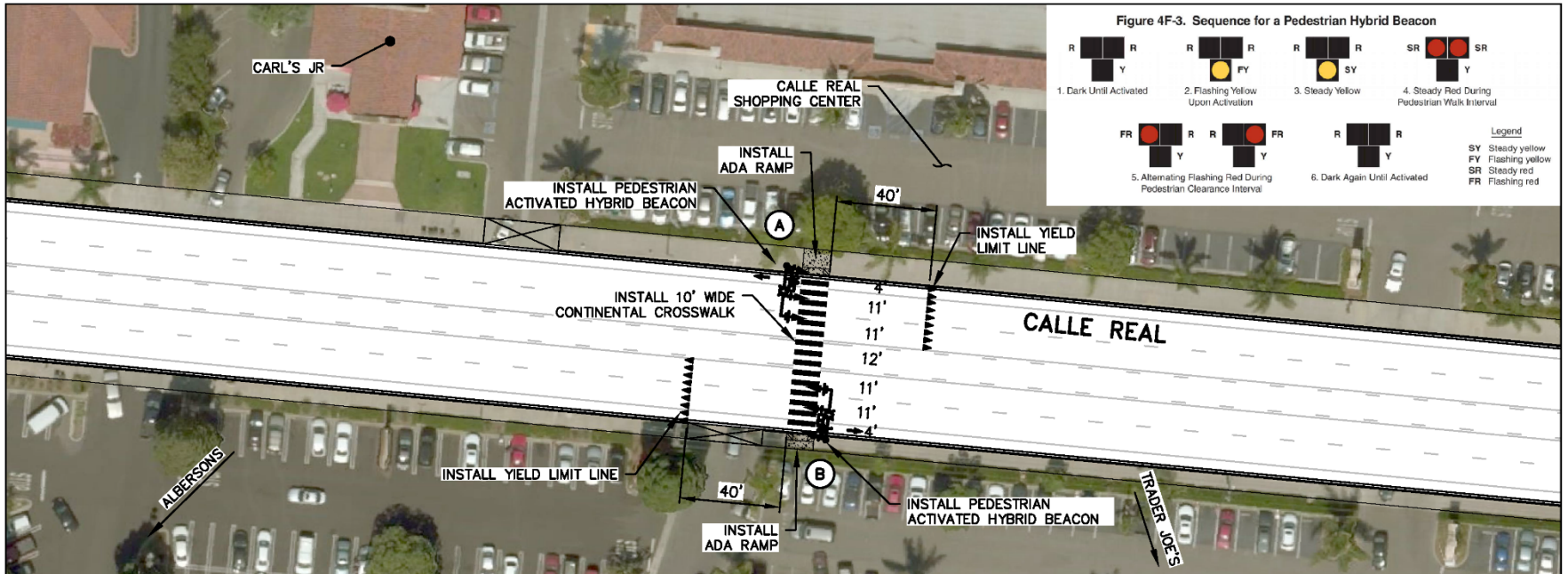
- Conducted on May 8, 2018 in the field
- 71% crossing Calle Real traveled to/from Calle Real Center by foot
- 77% would increase frequency of walking if more protected crossings were provided
- 84% see a benefit to the proposed protected crossing location
- At least 15% of the pedestrians would change to using the new crossing location

Existing Conditions

Crossing Location

- Provides controlled crossing midway between 2 existing controlled crossings
 - 600 ft east from traffic signal at Calle Real and Encina
 - 600 ft west of Pedestrian Signal Crossing
- Proposed new PHB at Kingston (HSIP Project) approximately 1200 ft east (600 ft east of Pedestrian Signal Crossing)
- 4 equally spaced controlled crossings between Encina and Kingston





PROPOSED POLE & EQUIPMENT SCHEDULE														
LOC	STANDARDS				LED LUMINAIRE	VEH. SIG. MTG.		PED. SIG. MOUNTING	PPB		POLE LOC.		REFLECTIVE S.N.S (DOUBLE FACED)	REMARKS
	TYPE	HEIGHT	SIG. M.A.	LUM. M.A.		M.A.	POLE		#	QUAD	STA.	OFFSET		
(A)	17-3-100	30'	20'	12'	154 W	2-MAS*	SV-1-T*	SP-1-T**	-	E	-	-	-	F= 8'
(B)	17-3-100	30'	20'	12'	154 W	2-MAS*	SV-1-T*	SP-1-T**	-	W	-	-	-	F= 8'

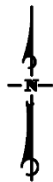
* 3-SECTION PEDESTRIAN HYBRID BEACON
 ** COUNT DOWN TYPE PEDESTRIAN SIGNAL

ORIGINAL SHEET - ANSI 3

August, 2018
 2064129-530

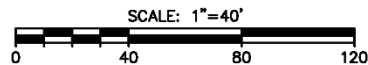


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Legend

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Client/Project
 City of Goleta
 Calle Real
 Pedestrian Hybrid Beacon
 Figure No.
 4
 Title
 Pedestrian Hybrid Beacon (PHB)
 Location Exhibit

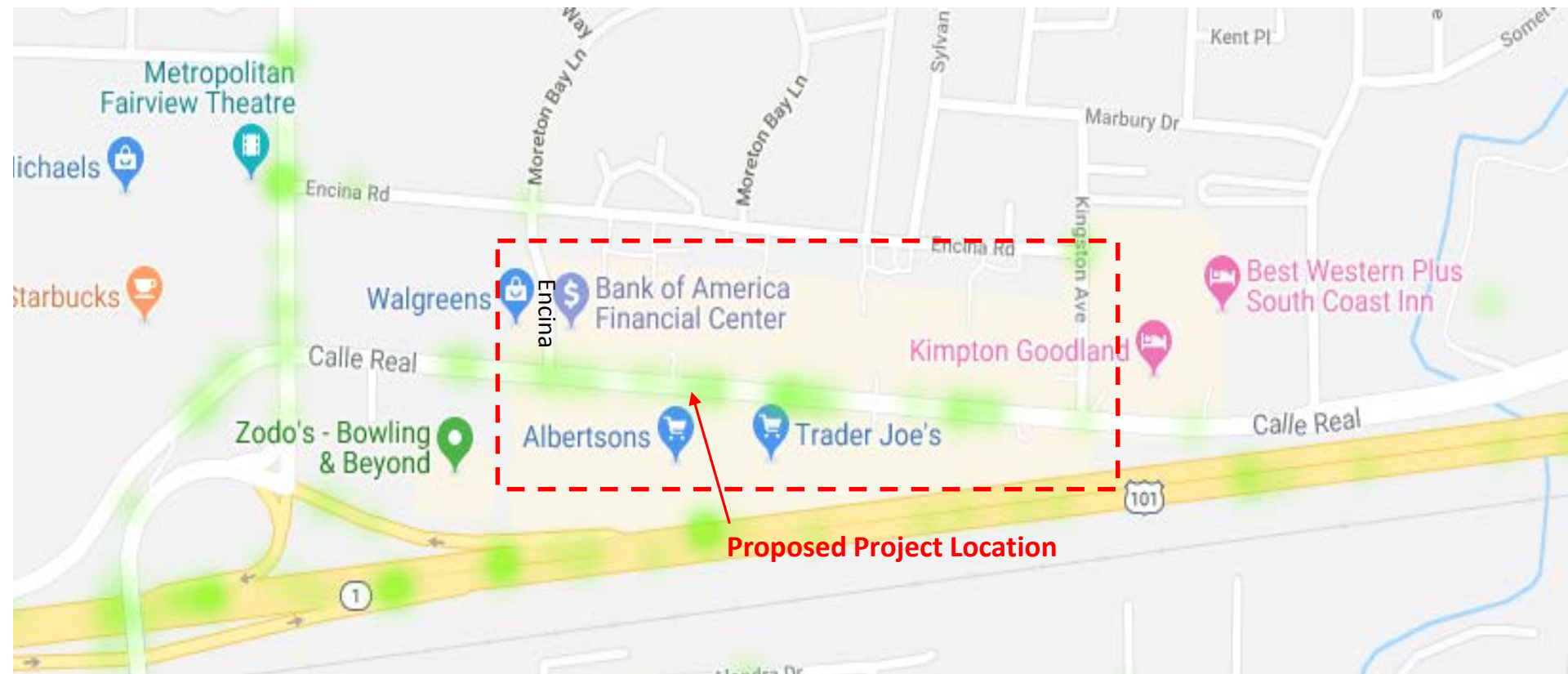


PM Peak Hour Vehicle Turning Count

Activated Blank Out Sign



Recent 5 Year Collisions



Most Recent 5 Year Accident Data (2013 – 2018):

- Approximately 53 Total Collisions
- 21 Injury Collisions
- 32 Property Damage Only Collisions

Recent 5 Year Bicycle and Pedestrian Collisions



Legend



Fatal or Severe
Injury Collision



Pedestrian Collisions



Bicycle Collisions

Grant Funding and Schedule

- ▶ Measure A South Coast Regional Bicycle and Pedestrian Grant Program – Cycle 3 (2015)
 - Conceptual Design – Local Funds
 - Design (PS&E) – Estimated
 - \$30,000 – Measure A Grant (80%)
 - \$7,500 Local Match (20%)
 - Construction – Estimated
 - \$120,000 – Measure A Grant (80%)
 - \$30,000 Local Match (20%)

- ▶ Grant Timely Use of Funds Deadlines
 - Design – June 30, 2019
 - Construction – June 30, 2012

Questions

