




CR/SR A1A
PEDESTRIAN SAFETY & MOBILITY STUDY

RIVER TO SEA
TRANSPORTATION PLANNING
ORGANIZATION

TPO Board Meeting | April 27, 2016

PROJECT OVERVIEW & WORK COMPLETED



Project Overview

Study Limits

Bethune Beach (Volusia County) to just south of Marineland (Flagler County) – 56.5 total miles in length

Primary Goal

Recommend implementable pedestrian/bicycle safety improvements/countermeasures at strategic locations along A1A

Secondary Goal

Expand countermeasures to be applicable along other sections of A1A in a systemic manner

3

Work Completed

Fall 2015 through Spring 2016

- September to December 2015 –
 - Completed pedestrian/bicycle safety field reviews for Focus Areas D (Daytona Beach/Ormond Beach), E (Ormond Beach/Ormond-by-the-Sea), and G (Flagler Beach)
- Late January 2016 –
 - Approved for 3 additional safety field reviews
- February 2016 to Present –
 - Completed safety field reviews for Focus Areas A (New Smyrna Beach), B (Daytona Beach Shores/Daytona Beach), and C (Daytona Beach)

4

PEDESTRIAN/BICYCLE SAFETY FIELD REVIEW OBSERVATIONS

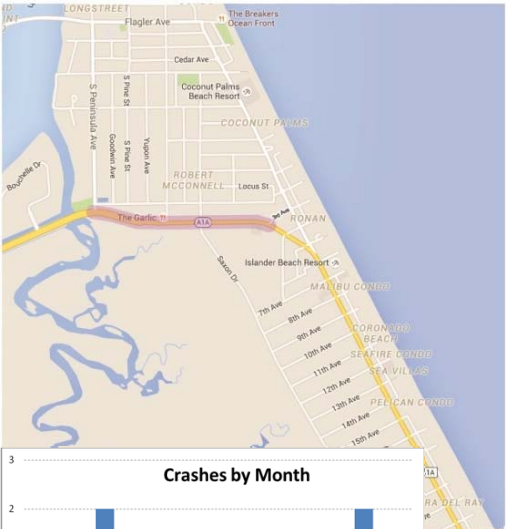


Note: This presentation only includes a small sample of issues and suggestions for each field review location. The field review reports are in the process of being finalized and will be presented upon completion of this study.

Focus Area A

**Peninsula Dr. to 3rd Ave. –
New Smyrna Beach
(0.60 miles)**

- 9 pedestrian or bicycle-related crashes between 2009 and 2014
 - 2 ped, 7 bike
 - 9 injury
- 6 of 9 non-motorists were from the New Smyrna Beach area (based on ZIP codes)



Crashes by Month

Month	PDO	Injury	Fatal
January	1	0	0
February	1	0	0
March	2	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	1	0	0
October	1	0	0
November	2	0	0
December	1	0	0

■ PDO ■ Injury ■ Fatal

6

3



Focus Area A

Faded/Missing
Crosswalk Markings

Safety Field Review Observations




Chase Bank
Sidewalk
Connection

Chase Bank


Lack of
Sidewalks

Lack of Sidewalk Connectivity to Properties


Wide Two-Way Left-Turn Lane


7



Focus Area B

Park Ave. to Frances Ter. – Daytona Beach Shores/Daytona Beach (0.95 miles)

- 8 pedestrian or bicycle-related crashes between 2009 and 2014
 - 7 ped, 1 bike
 - 8 injury
- Vehicle had ROW in 4 of 7 pedestrian crashes and in 1 bicycle crash



Crashes by Lighting Condition

Lighting Condition	Fatal	Injury	PDO
Daylight	0	3	0
Dusk	0	0	0
Dawn	0	0	0
Dark w/ Street Light	0	4	0
Dark w/o Street Light	0	1	0

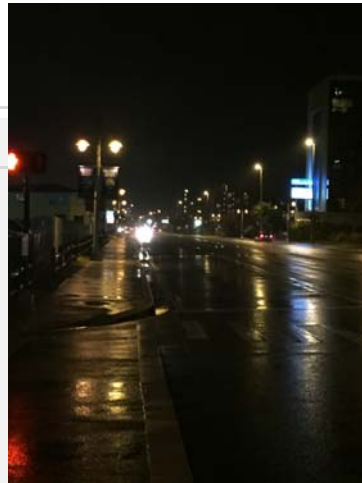
8

 Focus Area B

Safety Field Review Observations



Lack of Formal Crossing Opportunities

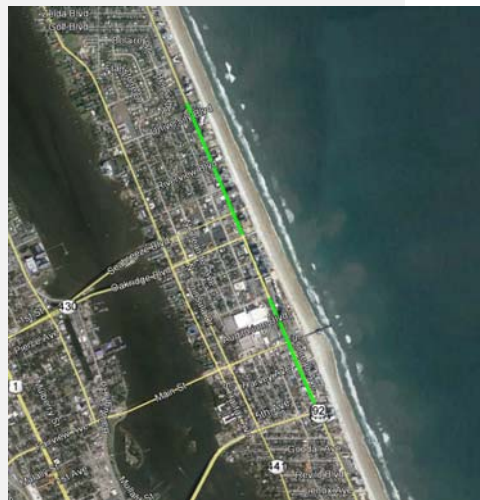



Inconsistent Corridor Lighting

 Focus Area C

International Speedway Blvd. to Earl St. (0.60 miles) and Oakridge Blvd. to (just N of University Blvd.) (0.70 miles) – Daytona Beach


- 23 pedestrian and bicycle-related crashes between 2009 and 2014
 - 21 ped, 2 bike
 - 1 fatal, 18 injury, and 4 PDO
- Pedestrian had ROW in 8 of 21 crashes (4 within crosswalks at signals) and bicyclists had ROW in both crashes
- 7 crashes occurred with pedestrian attempting to cross A1A mid-block
- 16 of 23 crashes occurred in non-daylight conditions



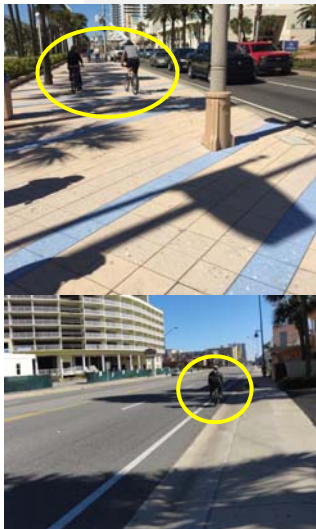



Focus Area C

Lighting Consistency from
Oakridge to north of
University



Safety Field Review Observations






Marked Crosswalks
not Visible from ISB
to Earl St.

Lack of Bicycle
Facilities
Corridor-Wide

11



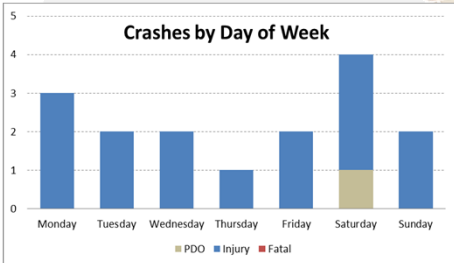
Focus Area D

Lighting Consistency from
Oakridge to north of
University

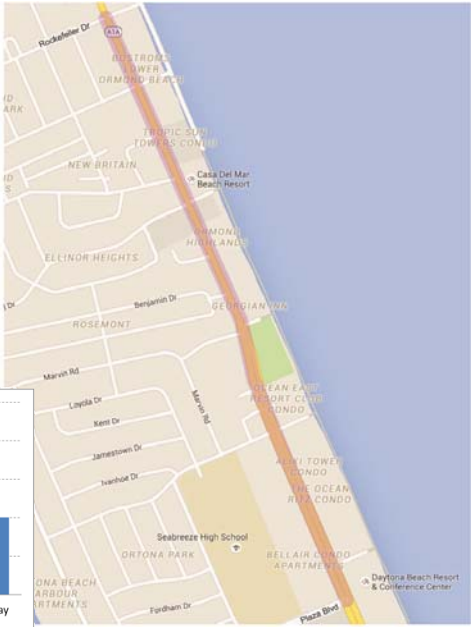
Plaza Blvd. to Rockefeller Dr. – Daytona Beach/Ormond Beach (1.20 miles)

- 16 pedestrian or bicycle-related crashes between 2009 and 2014
 - 8 ped, 8 bike
 - 15 injury and 1 PDO
- 4 pedestrians were not from the State of Florida

Crashes by Day of Week



Day of Week	PDO	Injury	Fatal	Total
Monday	0	3	0	3
Tuesday	0	2	0	2
Wednesday	0	2	0	2
Thursday	0	1	0	1
Friday	0	2	0	2
Saturday	1	3	0	4
Sunday	0	2	0	2



12

Focus Area D

Safety Field Review Observations



Five-Lane Cross Section

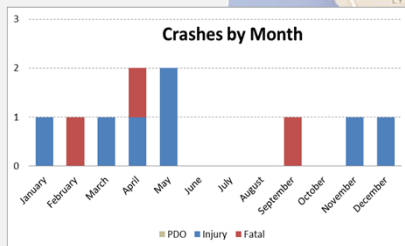
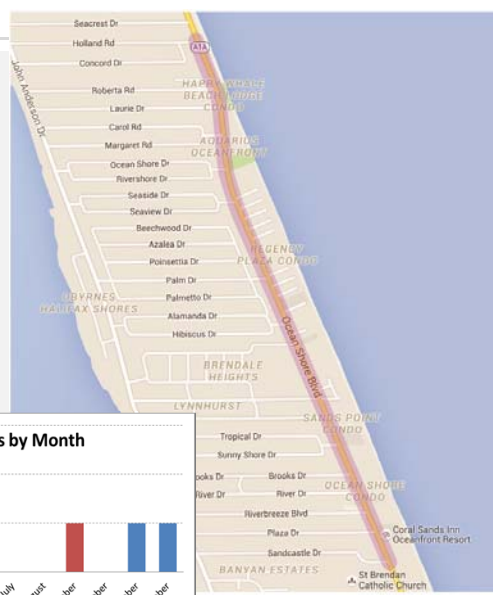


Lack of Bicycle Facilities

Focus Area E

Sandcastle Dr. to Holland Rd. – Ormond Beach/Ormond-by-the-Sea (1.55 miles)

- 10 pedestrian or bicycle-related crashes between 2009 and 2014
 - 6 ped, 4 bike
 - 3 fatal and 7 injury
- 3 pedestrians and 1 bicyclist were not from the State of Florida



 Focus Area E

Safety Field Review Observations



Limited Roadway Lighting Effectiveness

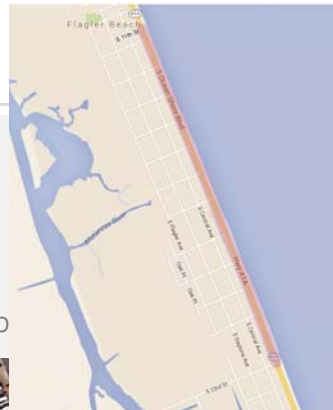


Driveway Density/Widths

 Focus Area G

**S 23rd St. to S 11th St. and Beverly Beach
Camptown RV Resort– Flagler Beach
(1.50 miles)**

- 10 pedestrian or bicycle-related crashes between 2009 and 2014
 - 6 ped, 4 bike
 - 2 fatal (1 at the RV resort), 7 injury, 1 PDO
- 5 of 6 pedestrian crashes occurred with the pedestrian crossing mid-block, with the vehicle having the right-of-way
- All 4 bicycle crashes occurred with the cyclist on the roadway, with the cyclist having the right-of-way



Minor Street
Pedestrian Facilities

 Focus Area G

Safety Field Review Observations




Lack of Bicycle Facilities



Mid-Block Crossings
Near Beach Access

17

NEXT STEPS



» Next Steps

- Finish draft reports
- Created systemic countermeasure matrix (will review in June presentations)
- Met with stakeholder group on April 20th to review systemic issues (will review in June presentations)
- Meeting with FDOT to discuss funding options for project implementation – May
- Final presentations and final report preparation – June

19

PROJECT CONTACT INFORMATION



R2C TPO PROJECT MANAGER:
Stephan C. Harris
Bicycle & Pedestrian Coordinator
2570 W. International Speedway Blvd.
Suite 100
Daytona Beach, FL 32114
Phone: 386.226.0422; Ext. 20428
sharris@r2ctpo.org



CONSULTANT PROJECT MANAGER:
Adam M. Burghdoff, P.E.
225 E. Robinson St.
Suite 450
Orlando, FL 32801
Phone: 407.540.0555
aburghdoff@kittelsohn.com