Bicycle and Pedestrian Safety Action Plan

for the Broward Metropolitan Planning Organization

Advocacy Team Meeting #2 September 20, 2016



Introductions

Project & Schedule Update

Field Review Findings

Guiding Themes

Action Items & Performance Measures Break Out Session

Action Items & Performance Measures Report Back

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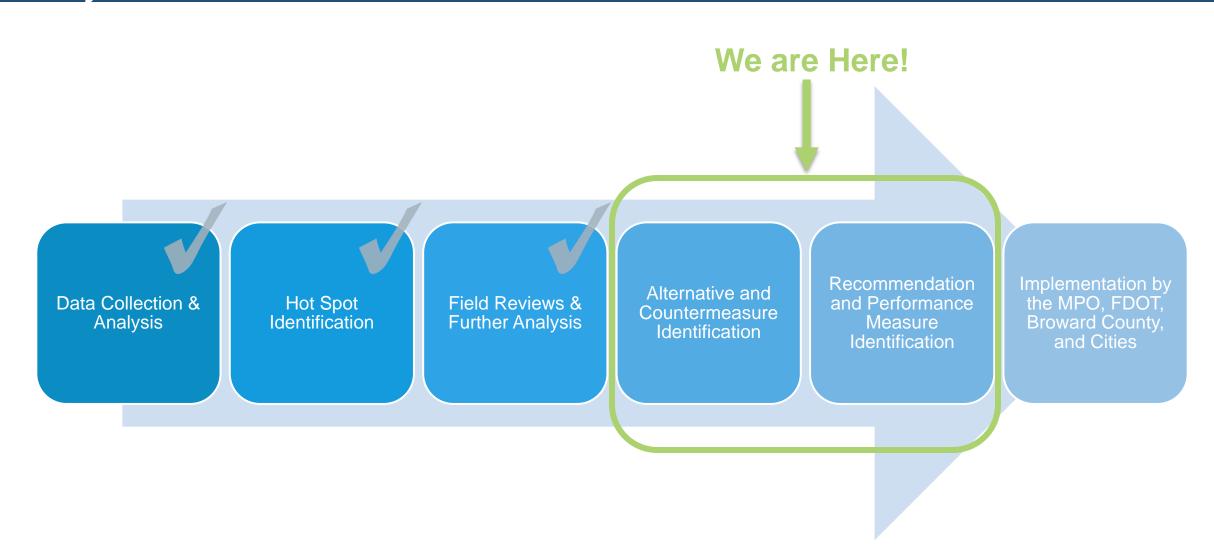
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THE DEMONSTRATION SITES WERE CHOSEN AS REPRESENTATIVE EXAMPLES OF CONDITIONS IN BROWARD COUNTY FOR USE IN IDENTIFYING SYSTEMIC ISSUES

Demonstration Sites and Types

Example Site Location

Hallandale Beach Blvd (NE 4th Ave to NE 26th Ave)

Equivalent Site Type

Beach Access Corridor (BAC)

Sunrise Blvd (NE 13th Ave to Middle River)

Urban Corridor (UC)

Broward Blvd at Andrews Ave

Urban Intersection (UI)

Oakland Park Blvd (NW 84th Ave to Atrium West)

Suburban Corridor (SC)

Oakland Park Blvd at SR 7



Samplings
intended to
represent all
municipalities
within the County

Type BAC

BEACH ACCESS CORRIDOR DEMONSTRATION SITE

Hallandale Beach Boulevard from NE 4th Avenue to NE 26th Avenue



STUDY AREA | 1.30 Miles



CRASH DATA - 2010 TO 2015



26 Pedestrian



62 Bicycle

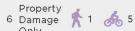












Peak Crash Time Periods



Involved Alcohol

and/or Drugs

Peak Crash Months

Occurred in January, June, & August

Peak Crash Days of the Week

% Occurred on Monday & Thursday





ROADWAY CHARACTERISTICS



The corridor has a three lanes in each direction. It has intermittent right- and left-turn lanes. It also has a heavily landscaped median and both pedestrian and vehicular lighting. The corridor has 5' - 7' sidewalks and 4' - 5' marked bike lanes. The posted speed is 35 MPH. The land uses mainly consist of new and/or well kept auto-oriented shopping centers set behind large surface parking lots.

FIELD REVIEW OBSERVATIONS

Lighting Conditions

Occurred in Non-Daylight

- Narrow Bike Lanes
- Bicyclists Riding on Sidewalks
- Objects Blocking Sidewalks
- Frequent Driveways
- Poorly Marked Driveway Crossings
- Faded Pavement Markings
- ADA Noncompliant Sidewalks and Ramps
- Missing Crosswalks
- Lack of Bicycle Markings at Conflict Areas
- Skewed Intersection Geometry
- Poor Drainage
- Out of Date Pedestrian Signal Signage
- · Obstructed Views at Crosswalks
- Long Signal Times













Type UC

URBAN CORRIDOR DEMONSTRATION SITE

Sunrise Boulevard from NE 13th Avenue to Middle River



STUDY AREA | 1 Mile



CRASH DATA - 2010 TO 2015



26 Pedestrian



A 19 Bicycle





Peak Crash

Time Periods





Peak Crash Months

> Occurred in April, June, &

Peak Crash Days of the Week

> Occurred on 52% Tuesday, Friday, and Saturday



ROADWAY CHARACTERISTICS



The corridor has a three lanes in each direction. It has intermittent right- and left-turn lanes. It also has median with intermittent landscaping, cobra style vehicular lighting, and dynamic message signs. The corridor has 5' - 7' sidewalks and no marked bike lanes or paved shoulders. The posted speed is 35 MPH. The land uses are redeveloping; new buildings front the street while older buildings and shopping centers are set behind large surface parking lots.

FIELD REVIEW OBSERVATIONS

Lighting Conditions

Occurred in Non-Daylight

- No Bike Lanes
- Bicyclists Riding on Sidewalks
- Objects Blocking Sidewalks
- Narrow Sidewalks
- ADA Noncompliant Sidewalks and Ramps
- Missing Crosswalks
- Lack of Crossing Opportunities
- Illegal Mid-Block Crossings
- Frequent Driveways
- Poorly Marked Driveway Crossings
- Inattentive Drivers (Especially at Driveways and Intersections)
- Vehicles Blocking Crosswalks
- Lack of Shade/Shelter
- · Lack of Bicycle Markings at Conflict Areas
- Poor Drainage
- Too Much/Poor Signage
- Long Signal Times



Involved Alcohol

and/or Drugs











Type

URBAN INTERSECTION DEMONSTRATION SITE

Broward Boulevard at Andrews Avenue



STUDY AREA | Intersection Study



ROADWAY CHARACTERISTICS



Broward Boulevard has three lanes in each direction and Andrews Avenue has two lanes in each direction. Both roads are divided with intermittent right- and left-turn lanes. At the intersection, each leg has left turn lanes. The roads have cement or lightly vegetated medians and cobra style vehicular lighting. The corridor has 6' or wider sidewalks and no marked bike lanes, although Broward Boulevard has paved shoulders that could potentially be widened and converted into bike lanes in the future. The intersection is located in the most urban part of Fort Lauderdale and is surrounded by high rise. mixed use buildings arranged in a generally walkable manner.

CRASH DATA - 2010 TO 2015

33 Pedestrian



A 22 Bicycle











Peak Crash

Time Periods

Involved Alcohol

and/or Drugs

Peak Crash Months

> 35% Occurred in March & November

Peak Crash Days of the Week

Occurred on 56% Tuesday, Friday, and Saturday



FIELD REVIEW OBSERVATIONS

Lighting Conditions

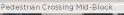
- Illegal Mid-Block Crossings
- Inattentive Drivers (Especially at Driveways and Intersections)

Occurred in Non-Daylight

- Vehicles Blocking Crosswalks
- Speeding/Aggressive Driving
- ADA Noncompliant Sidewalks and Ramps
- No Bike Lanes
- Missing/Faded Crosswalks
- Lack of Crossing Opportunities
- Objects Blocking Sidewalks
- Broken/Out of Date Pedestrian Signage and Signals
- Poor Pedestrian Access to Adjacent Development
- Wide Intersection/Excessive Pavement/Wide Turn Radius
- Lack of Bicycle Markings at Conflict Areas
- Long Signal Times
- Poor lighting













Vehicle Parked on Sidewalk



Type SC

SUBURBAN CORRIDOR DEMONSTRATION SITE

Oakland Park Boulevard from NW 84th Avenue to Atrium West



STUDY AREA | 1 Mile



CRASH DATA - 2010 TO 2015



28 Pedestrian

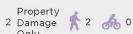


9 Bicycle









Occurred in Non-Daylight



Peak Crash

Time Periods

Peak Crash Months

> 30% Occurred in June & December

Peak Crash Days of the Week

Occurred on 46% Thursday & Friday 27%



ROADWAY CHARACTERISTICS



The corridor has a three lanes in each direction. It has intermittent right- and left-turn lanes. There are access roads in some areas as well. It also has median with intermittent landscaping. The corridor has 5' - 6' sidewalks separated from the roadway; and while there are no marked bike lanes, it does have paved shoulders that could potentially be widened and converted into bike lanes in the future. The posted speed is 45 MPH. The land uses generally consist of auto-oriented shopping centers and big box retail set behind large surface parking lots.

FIELD REVIEW OBSERVATIONS

Lighting Conditions

- Illegal Mid-Block Crossings
- Inattentive Drivers (Especially at Driveways and Intersections)
- Vehicles Blocking Crosswalks
- Speeding/Aggressive Driving
- ADA Noncompliant Sidewalks and Ramps
- No Bike Lanes
- Missing/Faded Crosswalks
- Lack of Crossing Opportunities
- Objects Blocking Sidewalks
- Broken/Out of Date Pedestrian Signage and Signals
- Frequent Driveways
- Poorly Marked Driveway Crossinas
- Wide Intersection/Excessive Pavement
- Lack of Bicycle Markings at Conflict Areas
- Long Signal Times
- Poor lighting



Involved Alcohol

and/or Drugs











Type

SUBURBAN INTERSECTION DEMONSTRATION SITE

Oakland Park Boulevard at SR 7



STUDY AREA Intersection Study





Oakland Park Boulevard and SR 7 are each 6 lane, divided roads with intermittent right- and left-turn lanes. At the intersection, each leg has dual left turn lanes and right turn lanes. The roads have cement or lightly vegetated medians and cobra style vehicular lighting. The corridor has 6' sidewalks and no marked bike lanes, although SR 7 has paved shoulders that could potentially be widened and converted into bike lanes in the future. The intersection is surrounded by large shopping centers with big box stores and out parcel development set behind expansive surface parking lots.

CRASH DATA - 2010 TO 2015



46 Pedestrian



37 Bicycle

49 Injury











Peak Crash

Time Periods



Peak Crash Months

> Occurred 35% in January, February, & August

Peak Crash Days of the Week

23% Occurred on Friday



FIELD REVIEW OBSERVATIONS

Lighting Conditions

Occurred in Non-Daylight

- Illegal Mid-Block Crossings
- Inattentive Drivers (Especially at Driveways and Intersections)
- Vehicles Blocking Crosswalks
- ADA Noncompliant Sidewalks and Ramps
- No Bike Lanes
- Bicyclists Riding on Sidewalks
- Lack of Crossing Opportunities
- Objects Blocking Sidewalks
- Narrow Sidewalks
- Frequent Driveways
- Poorly Marked Driveway Crossings
- Poor Pedestrian Access to Adjacent Development
- Lack of Shade/Shelter
- Lack of Bicycle Markings at Conflict Areas
- Long Signal Times
- Buses Bunching and Stopped in
- Broken/Out of Date Pedestrian Signage and Signals



Involved Alcohol

and/or Drugs









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Types of Plans

Vision



Inspirational document or statement that defines a desired future.

Master Plan



Identifies and defines the ultimate desired network of facilities and treatments to achieve the vision.

Action Plan



Identifies strategic institutional changes needed to achieve the vision and how those changes can be accomplished.

LRTP



Identifies and categorizes projects and programs by time frame and funding sources.

Corridor Study



Identifies context sensitive improvements and projects for a corridor.

Safety & Operational Study



Identifies design, operational, maintenance, and other implementable projects to improve a study area based on a specific safety or operational issue.

From Goals to Guiding Themes

A-Team Original Six Goals

Design roads for users of all ages and abilities

Identify and designate bicycle and pedestrian priority areas

Educate all road users on the rights and responsibilities of all modes

Ensure that transit and land use decisions support bicyclists and pedestrians

Build consensus and improve collaboration among partners

Increase enforcement of laws related to pedestrian and bicycle safety

Resulting Action Plan Themes

Set the Stage

Create Safe Streets

Prevent Aggressive Behavior

All Hands on Deck

Guiding Themes

Set the Stage

Enact transportation and land use plans and policies to better support multimodal transportation.

Create Safe Streets

Implement complete streets projects and evaluation measures that go beyond a focus on vehicles and prioritize walking, bicycling, and riding transit.

Prevent Aggressive Behavior

Enhance training of law enforcement officers on pedestrian and bicycle issues, conduct targeted enforcement, and take legal action.

All Hands on Deck

Coordinate decision makers and find and support advocates to move forward an agreed upon vision for pedestrian and bicycle safety.

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Breakout Group Activity: Action Items

Issue

Description of system wide issues either observed or seen through data.

Theme

Related guiding theme

Category

General category of issues

E's

Related 5 F's

Action Item

Description of system wide action items based on professional judgment, research, and national best practices

Lead Agency

Identified Lead Champions

Support Agencies

Identified supporting Champions

Breakout Group Activity: Performance Measures



Example
Dashboard
Seattle, WA

Breakout Group Activity

Group 1Create Safe Streets

Group 2Set the Stage

Group 3

Prevent Aggressive Behavior

& All Hands On Deck

45 Minutes!

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Action Items & Performance Measures Report Back

- 1. Summarize the A-team's feedback and incorporate into the overall BPSAP
- 2. Present to the MPO's Committees and Board on Nov. 16th and Dec. 8th
- 3. Prepare the draft BPSAP document
- 4. Hold final A-Team meeting to gather final thoughts and determine post BPSAP next steps in early 2017
- 5. Present to the MPO's Committees and Board in Spring 2017 for final adoption