Allwood Road (CR 602) Safety Improvements

NJTPA Local Safety Program (HSIP Funded) Project Sponsor: Passaic County

City of Clifton Passaic County

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Public Information Center June 26th, 2024



Meeting Agenda

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- Introduction
- Project Overview
- Corridor Design
- Road Diet Analysis
- Next Steps

Project Overview

Allwood Road (CR 602)

Styertowne
Shopping CenterBook CourtPassaic Ave.



Project Overview

Allwood Road (CR 6<u>02)</u>

Proposed Improvements

Bike Lane

Crosswalk Visibility Enhancement

Ped Refuge, RRFB and ADA Compliance

Road Diet with CTL

Lighting

Dedicated Right and Left Turn Lanes

Signal Optimization and Upgraded Equipment

Lighting



Pavement Friction Course





Impacts and Outcomes

*Reference FHWA-SA-21-038 for more information on potential crash reduction percentages. These reductions are averages and not guaranteed

Crash Reduction*

FHWA Safety Measure





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Crash Study

Section 1 (CLIFTON AVE TO HEPBURN RD) Milepost 0.31-Milepost 0.64

CRASH TYPE	<u>Allwood Road</u>	<u>Statewide</u> <u>Average</u>
Same Dir- Rear End	24% (14)	32%
Same Dir- Sideswipe*	ir- Sideswipe* 20% (12)	
Angle*	27% (16)	19%
Head On	0% (0)	3%
Parked Vehicle	3% (3)	6 %
Left Turn / U Turn*	17% (10)	4%
Fixed Object	3% (2)	10%
Pedestrian*	3% (2)	2%
Pedalcycle	0% (0)	1%
Other	2% (1)	10%

*Crash type higher than the Statewide average.

*Reference FHWA-SA-21-038 for more information on potential crash reduction percentages. These reductions are averages and not guaranteed



FHWA Proven Countermeasures





- LEGEND
- PROPOSED CURB EXTENSION WITH SIDEWALK
- PROPOSED PAVEMENT
 - RECONSTRUCTED SIDEWALK
 - SIGNALIZED INTERSECTION

PROPOSED BIKE LANE MARKINGS

- EXISTING BUS STOP
- EXISTING DRIVEWAY

Design Elements

- Upgrade Existing Traffic Signal
- Add WB left turn lane

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- Maintain two through lanes
- Revise signal timings

Section 1

EXISTING CROSS SECTION



PROPOSED CROSS SECTION



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CRASH STUDY

SECTION 2 (HEPBURN RD to BLOOMFIELD AVE) Milepost 0.65-Milepost 1.29

CRASH TYPE	Allwood Road	<u>Statewide</u> <u>Average</u>
Same Dir- Rear End	18% (8)	32%
Same Dir- Sideswipe*	20% (9)	13%
Angle*	34% (15)	19%
Head On	0% (0)	3%
Parked Vehicle*	11% (5)	6%
Left Turn / U Turn*	7% (3)	4%
Fixed Object	7% (3)	10%
Pedestrian	0% (0)	2%
Pedalcycle	0% (0)	1%
Other	2% (1)	10%

*Crash type higher than the Statewide average.

*Reference FHWA-SA-21-038 for more information on potential crash reduction percentages. These reductions are averages and not guaranteed

** Not a proven countermeasure



FHWA Proven Countermeasures

Section 2

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EXISTING CROSS SECTION



PROPOSED CROSS SECTION



* 3' buffer and 5' bike lane

Section 2

Market St Intersection



LEGEND

- PROPOSED BIKE LANE MARKINGS
 PROPOSED CURB EXTENSION WITH SIDEWALK
 - PROPOSED PAVEMENT
 - RECONSTRUCTED SIDEWALK
 - SIGNALIZED INTERSECTION
 - EXISTING BUS STOP
 - EXISTING DRIVEWAY

Design Elements

- Upgrade Existing Traffic Signal & replace median traffic signal poles
- Add EB & WB left turn lane
- Maintain two through lanes
- Revise signal timings

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Section 2

Bloomfield Ave

Design Elements

- Upgraded Striping
- Visible and clear directional signage
- Two Proposed Slip Ramps
- Safer Bike Ped Connectivity





Crash Study

Section 3 (BLOOMFIELD AVE to PASSAIC AVE) Milepost 1.30-Milepost 2.13

CRASH TYPE	<u>Allwood</u> <u>Road</u>	<u>Statewide</u> <u>Average</u>
Same Dir- Rear End	18% (18)	32%
Same Dir- Sideswipe*	20% (20)	13%
Angle*	40% (39)	19%
Head On	3% (3)	3%
Parked Vehicle	1% (1)	6%
Left Turn / U Turn*	7% (7)	4%
Fixed Object	4% (4)	10%
Pedestrian	0% (0)	2%
Pedalcycle*	1% (1)	1%
Other	5% (5)	10%
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*Crash type higher than the Statewide average.

*Reference FHWA-SA-21-038 for more information on potential crash reduction percentages. These reductions are averages and not guaranteed

** Not a proven countermeasure



FHWA Proven Countermeasures

Road Diet



Safety Benefits:

4-Lane to 3-Lane Road Diet Conversions

19-47% reduction in total crashes.¹



Section 3

EXISTING CROSS SECTION







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Section 3

Styertowne Shopping Center

Design Elements

- Upgrade Existing Traffic Signal & replace median traffic signal poles
- Add SB left turn lane
- Reduce NB Approach from 2 through lanes to 1







Section 3

Dwasline Road





PROPOSED PAVEMENT

PROPOSED BIKE LANE MARKINGS

PROPOSED CURB EXTENSION WITH SIDEWALK

RECONSTRUCTED SIDEWALK SIGNALIZED INTERSECTION EXISTING BUS STOP

EXISTING DRIVEWAY

Design Elements

- High Friction Surface Course Pavement Treatment (HFSC)
- New crosswalks with ped refuge
- Rectangular Rapid Flashing Beacon

Potentially up to 48% crash reduction*

Potentially up to 56% crash reduction*

Potentially up to 47% crash reduction and increase motorist yielding rates up to 98%* *Reference FHWA-SA-21-038 for more information on potential crash reduction percentages. These reductions are averages and not guaranteed



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Crash Study

Section 4 (BLOOMFIELD AVE to PASSAIC AVE) Milepost 2.14- Milepost 2.55

CRASH TYPE	<u>Allwood</u> <u>Road</u>	<u>Statewide</u> <u>Average</u>
Same Dir- Rear End*	35% (7)	32%
Same Dir- Sideswipe*	20% (4)	13%
Angle*	20% (4)	19%
Head On*	5% (1)	3%
Parked Vehicle*	10% (2)	6%
Left Turn / U Turn	0% (0)	4%
Fixed Object	0% (0)	10%
Pedestrian	0% (0)	2%
Pedalcycle	0% (0)	1%
Other	10% (2)	10%

*Crash type higher than the Statewide average.

*Reference FHWA-SA-21-038 for more information on potential crash reduction percentages. These reductions are averages and not guaranteed

** Not a proven countermeasure



FHWA Proven Countermeasures

Section 4

EXISTING CROSS SECTION



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Section 4

Passaic Ave

Design Elements

New Traffic Signal

Reconfigure approach lanes to optimize intersection

- Eastbound: exclusive left turn lane, through lane and right turn lane
- Westbound: exclusive left turn lane, shared through/right turn lane;
- Northbound: Left turn lane and shared through/right turn lane;
- Southbound: exclusive left turn lane, through lane, and right turn lane



PROPOSED CURB EXTENSION WITH SIDEWALK

RECONSTRUCTED SIDEWALH SIGNALIZED INTERSECTION EXISTING BUS STOP EXISTING DRIVEWAY

Section 4

West of Main Ave





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Future Level of Service Analysis

The capacity of the corridor will not be affected significantly by the proposed improvements based on traffic projections.



Eastbound

Rd

Allwood

Allwood Rd Westbound

Additional delay due to Dwasline Road Safety Measures and Passaic Ave Signal Upgrades

Additional delay due to extra Clifton Ave Signal Phase for Driveway

Cross Street	Level of Service		
	2040 No Build	2040 Build	
Clifton Ave	-	-	
Hepburn Rd/Zeim Rd	С	С	
Market St/Sussex Rd	В	В	
Bloomfield Rd. (Roundabout)	E	E	
Shopping Center	А	А	
Book Court	С	С	
Passaic Ave	В	С	
TOTAL:	С	С	
	Level of Service		
Cross Street	2040 No Build	2040 Build	
Passaic Ave	-	-	
Book Court	۸	^	
	A	A	
Book Court	C	C	
Book Court Bloomfield Rd. (Roundabout)	C F	C E	
Book Court Bloomfield Rd. (Roundabout) Market St/Sussex Rd	C F C	C C C	
Book Court Bloomfield Rd. (Roundabout) Market St/Sussex Rd Hepburn Rd/Zeim Rd	F C B	A C E C B	

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TOTAL:

Project Schedule & Next Steps

Public Information Center

June 2024

Complete Preliminary Engineering

Obtain Environmental Approval

July 2025

August 2024

Begin Final Design

Nov 2024

Construction Authorization

Nov 2026

Spring 2027

Spring 2029 Start Construction

Construction Complete

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Questions/Comments



Defining the Vision. Shaping the Future.

