



Atherton Street Improvement

Project Update
May 2, 2016



Project Location



Discussion Topics

- Project Update
 - Drainage Design
 - Gutter Adjustments
- Park Avenue Intersection
 - Improvements made
 - Improvements proposed
- Schedule



Project Overview

- The purpose of this project is to perform required maintenance and improve the drainage and pavement structure from just north of Aaron Drive to just south of Park Avenue.
- The project will include:
 - Replacing deteriorated pipes and inlets.
 - Pavement and drainage gutter improvements
 - Intersection and signal upgrades



May 2016	SR 3014 Atherton Street Section 152	
PROJECT INFORMATION		
<p>Project Need and Objective Perform required maintenance and improve the drainage network and pavement structure along SR 3014 Atherton Street from Aaron Drive to Park Avenue.</p>		
<p>Existing Problems and Deficiencies</p> <ul style="list-style-type: none"> - Existing Drainage Configuration presents Maintenance and Accessibility Issues - Poor Condition of Drainage Infrastructure - Roadway Flooding - Poor pavement conditions 	 	
<p>Proposed Improvements</p> <ul style="list-style-type: none"> - Replacement of deteriorated drainage pipe & inlets - Addition of 62 new inlets - Replacement of Big Hollow Culvert with new box culvert - Full Depth Bituminous Gutter (Ferguson Township) - Concrete Curb Gutter (State College Borough) - Provision of 10' wide (minimum) lanes throughout project - Pavement Mill and Overlay - ADA Curb Ramp Improvements 	 	
<p>Project Timeline</p> <ul style="list-style-type: none"> - Begin Final Design - Summer 2016 - Project Bid - August 2017 - Construction Start - Fall 2017 - Construction Completion - Fall 2018 	<p>Anticipated Project Cost</p> <ul style="list-style-type: none"> - Preliminary Construction Cost = \$10.2 M 	

Project Details

- Install 61 inlets
- Replacing storm drainage piping
- Reconstructing pavement from 100 feet south of West Mitchell Avenue to 100 feet south of Woodland Avenue
- Place drainage gutter to improve drainage performance and safety



Proposed widths

- Roadway Section;
 - 4 - 10 foot lanes
 - 1 - 8 foot pedestrian Island
 - 2 - 1 foot Gutter for Drainage
- Minimum curb to curb width:
 - For pedestrian areas = 50 feet
 - For intersections with turning lanes = 52 feet
- Pedestrian Islands will remain at W. Mitchell Ave, Woodland Drive and Arbor Way



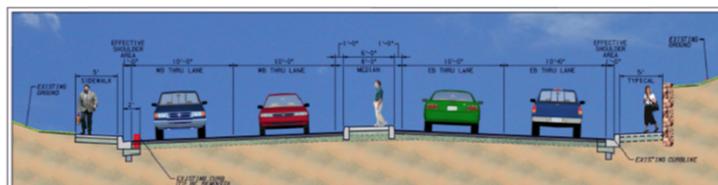
Proposed Roadway Options

Two separate sections within the Borough

- Rodeway Inn to Hillcrest Avenue
- Hillcrest Avenue to Park Avenue



Rodeway Inn to Hillcrest Avenue



**TYPICAL SECTION
2' GUTTER ADJUSTMENT ON WEST SIDE
RODEWAY INN TO HILLCREST AVENUE**



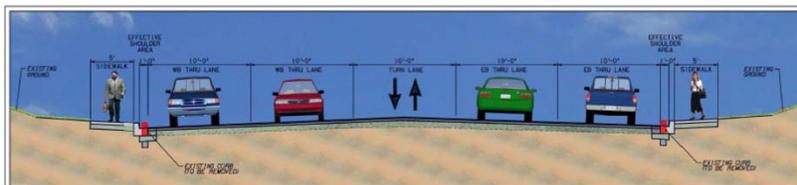
Rodeway Inn to Hillcrest Avenue

Impact avoidance for this section includes:

- Retaining walls and steps at residential properties
- Driveway grade adjustments
- Loss of parking for residential properties



Hillcrest Avenue to Park Avenue



**TYPICAL SECTION
1' GUTTER ADJUSTMENT ON EAST AND WEST SIDE
HILLCREST AVENUE TO PARK AVENUE**

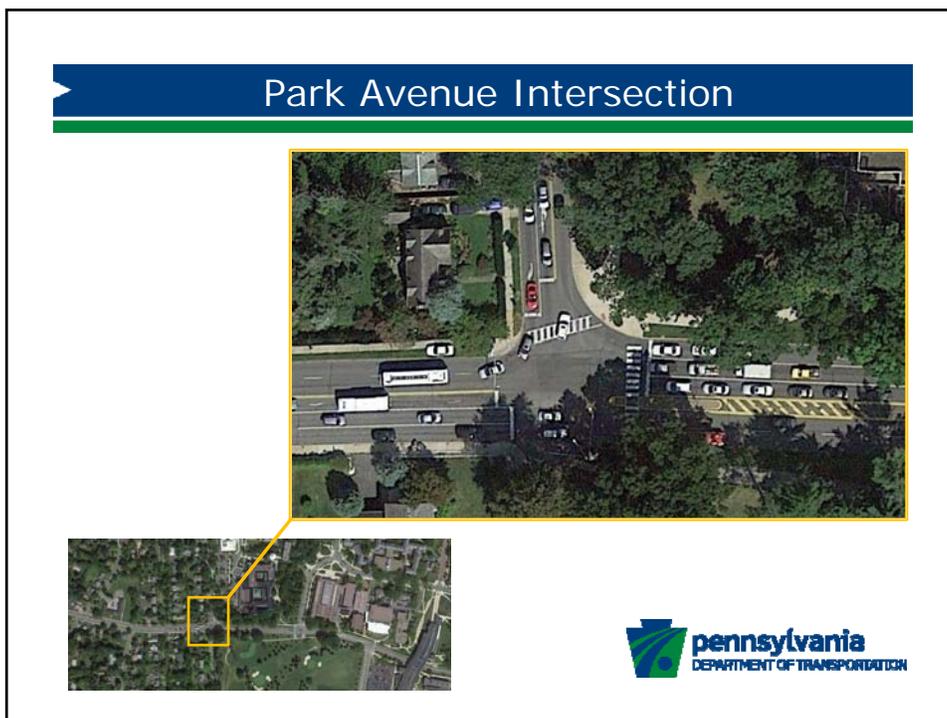
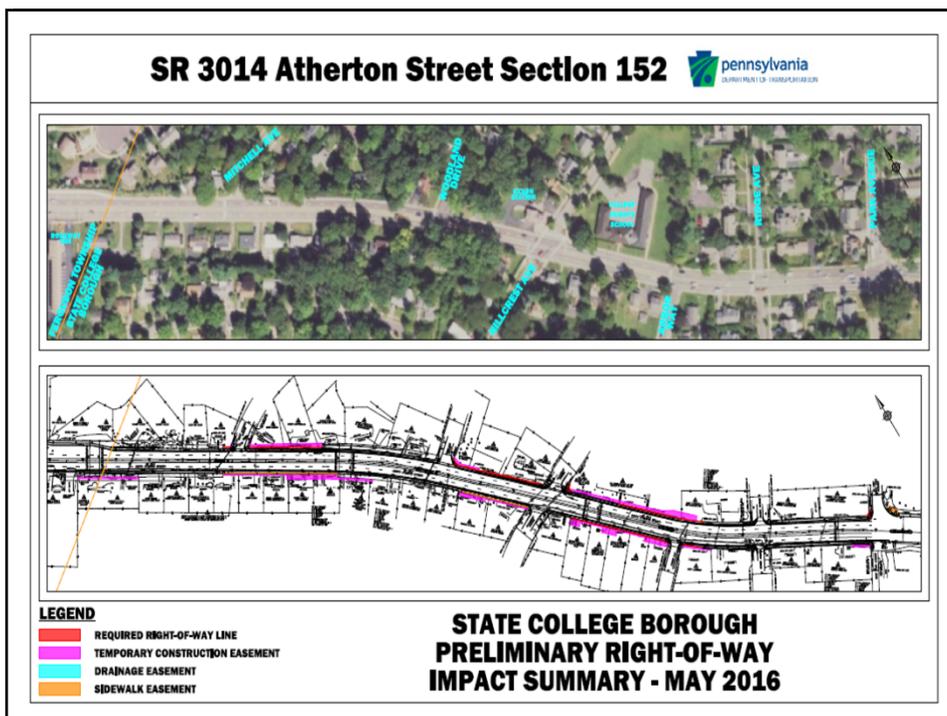


Hillcrest Avenue to Park Avenue

Impact avoidance for this section includes:

- Retaining walls and steps at residential properties
- Driveway grade adjustment
- Loss of parking for residential properties
- Cultural/ Historic resources





Park Avenue Intersection

- Four options were considered for the Park Avenue Intersection/ Signal upgrade
- After discussion with the Borough and College Heights working groups, the selected alternative provides the desired upgrades and minimize impacts which includes:
 - Dedicated signal for right turn movements from Atherton Street onto Park Avenue
 - No turn on Red signs
 - Pavement tracking for left turns from Park Avenue
 - Raised median for pedestrians Safety
 - Radius improvements
 - No decrease in LOS for traffic
 - No increase to width for pedestrians to cross
 - Increased time for pedestrian phase



Schedule

- The project is anticipated to start construction in the Fall of 2017 and be completed by the fall of 2018



▶ Atherton Street Early 1950's Construction

