

The Brandywine Valley Scenic Conservation Plan

2nd Meeting of the Conservation Committee February 10, 2010







Agenda / Meeting Purpose

- I. Overview presentation
 - Introduction
 - Where we are in the Project
 - Existing Conditions Report
 - Viewshed Analysis Report
- II. Committee comments and discussion
- III. Next steps

Introduction

Threats to the Byway:

- Chaotic development alien to the character of towns/landscapes
- Increase in unmanaged traffic
 - Inhibiting mobility of residents and visitors
 - Limiting modes of access (especially peds and bikes)
- Loss of this national treasure as a tourist asset

Initial Goals of the Plan

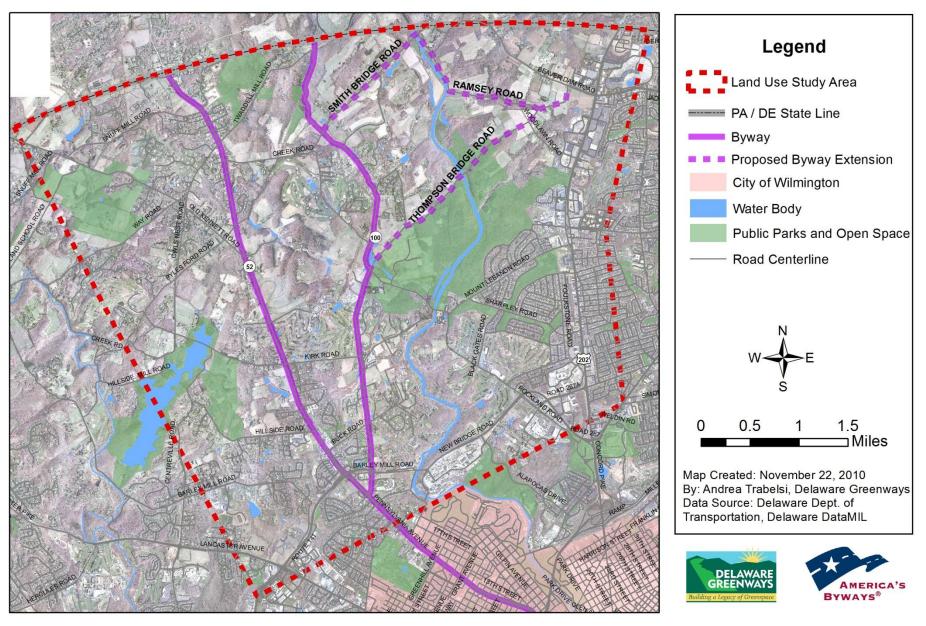
- 1. Maintain the character and experience of the Byway
- 2. Preserve land value
- 3. Provide safe, convenient access for residents, businesses, and visitors

Goal 3 of the CMP:

"to establish a **collaborative, interdisciplinary approach** to developing and implementing all future transportation projects along the byway, involving all stakeholders to ensure that transportation projects are in harmony with the byway communities; **to preserve and enhance environmental, scenic, aesthetic, and historic resources while enhancing safety and mobility**..."

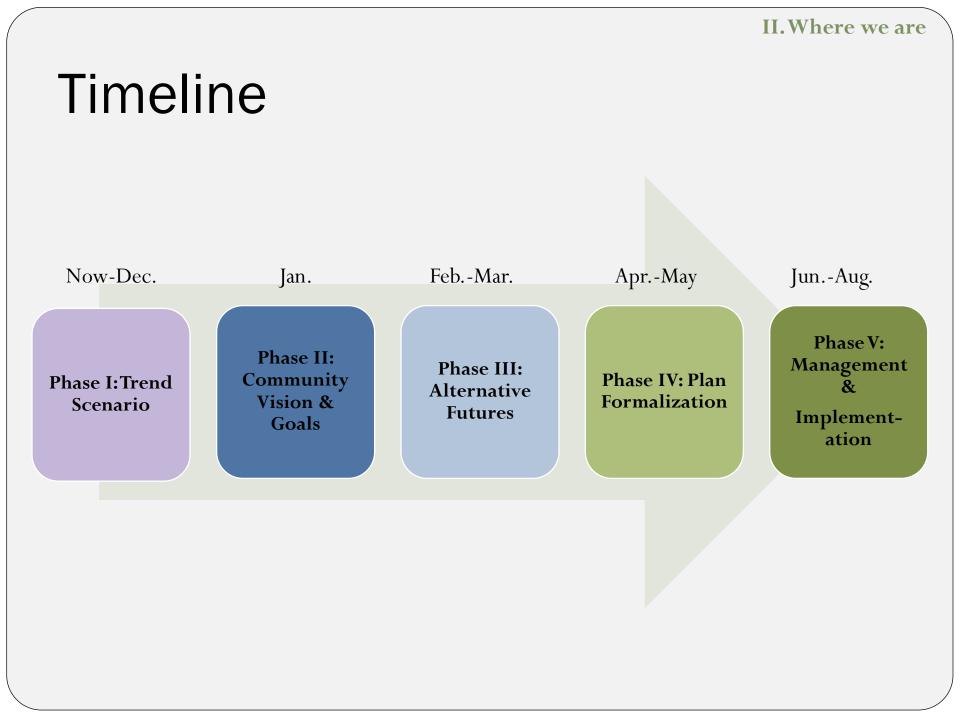
Land Use Study Area

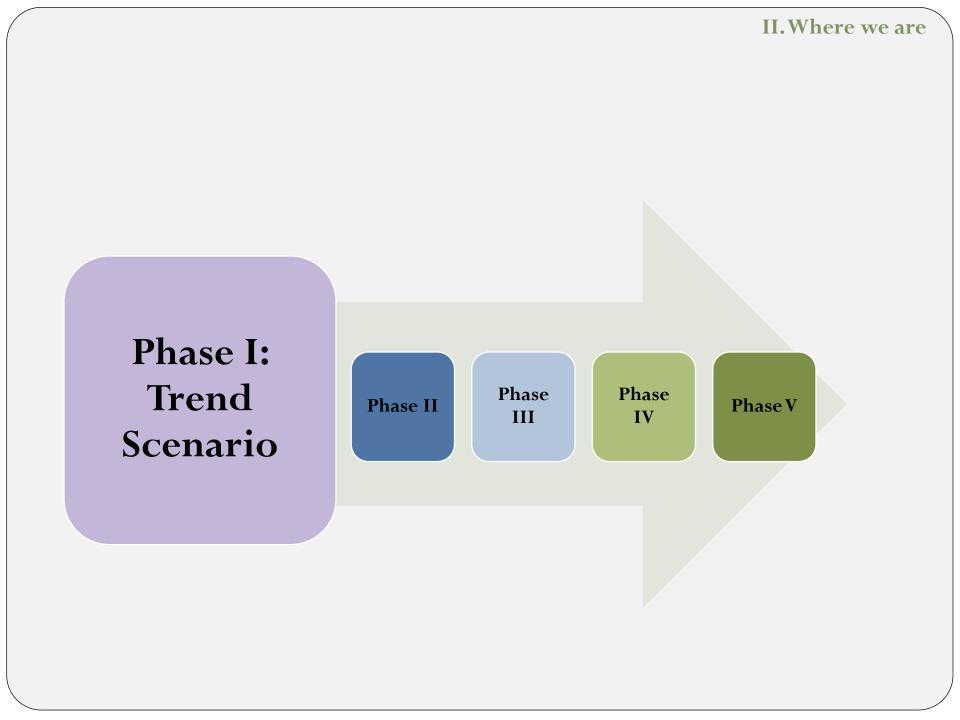
I. Introduction



Scenic Conservation Plan, Brandywine Valley National Scenic Byway

Where we are in the Project





Phase I

Develop the Trend Scenario

Answers the question: What will the future look like if current practices continue?



This Meeting

- ✓ Inventory of existing environmental, demographic and transportation conditions
- ✓ Inventory of visual environment
- \checkmark Identification of prime viewsheds and their threats

Next Meeting

• Analysis of how the study area is impacted under current regulatory and market trends

Topics Covered

- Land Use
 - Geography and Natural Environment
 - Historic and Current Population and Land Use
 - Protected Lands
 - Current Zoning
 - Infrastructure
 - Land Use Contexts

Topics Covered (continued)

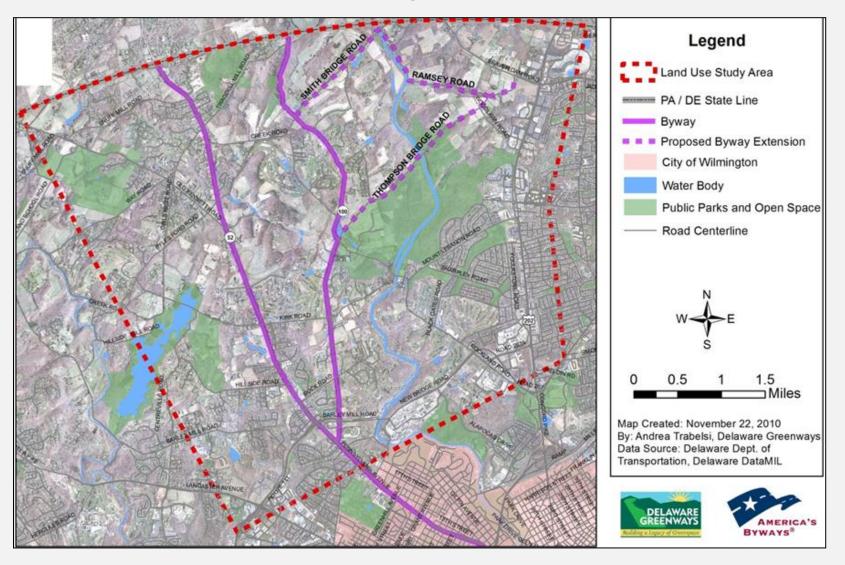
- Transportation
 - Physical Characteristics of the Roadways
 - Crash Analysis
 - Functional Classification
 - Traffic Volumes
 - Roadway Typology
 - Currently Planned Improvements
 - Non-Motorized Transportation
 - Public Transportation

Topics Covered (continued)

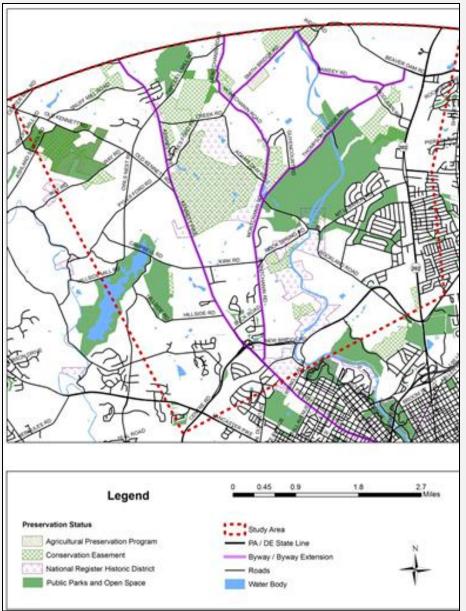
- Synthesis of Existing Key Issues
 - Linking Land Use and Transportation
 - Transportation Design Implications
 - Emerging Issues (at the end of the presentation)

Land Use

Land Use Study Area



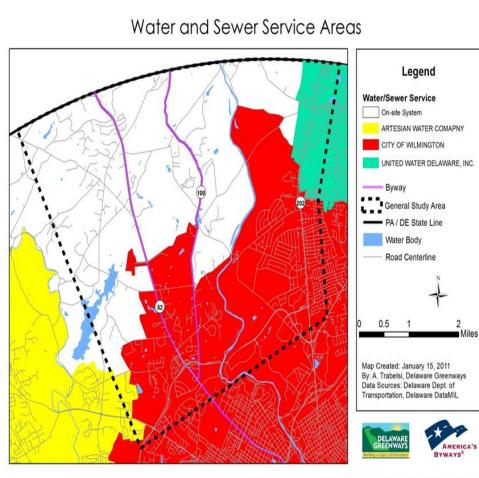
Protected Lands



Protection Status

Total Study Area	16,000 acres
Land Preserved by	1,900 acres
Conservation Easement	
Parks, other public open	4,400 acres
space, dedicated private or	
community owned open	
space	
Lands in the Agricultural	400 acres
Preservation Program	
Remaining unprotected lands	9,300 acres

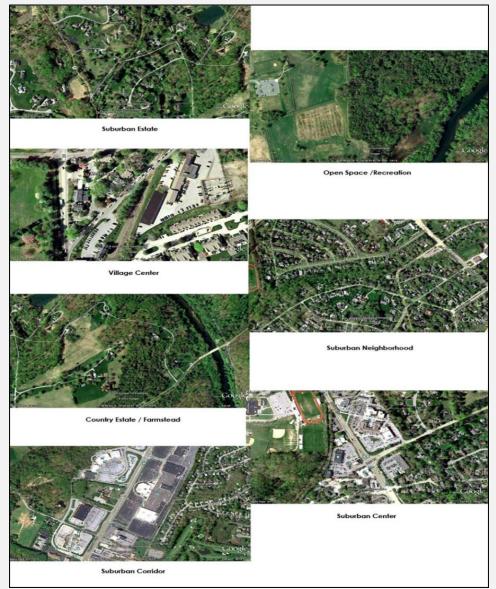
Infrastructure



Scenic Conservation Plan, Brandywine Valley National Scenic Byway

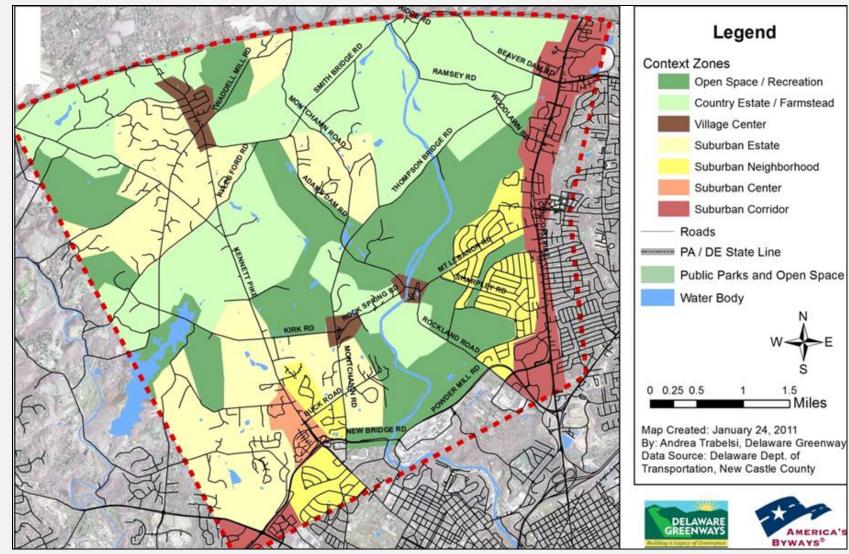
- Water and Sewer Service areas are generally coincident (shown as colored in map)
- Non-served areas use well water and on-site sewage.
- County uses non-served areas as a growth management tool.

Land Use Contexts



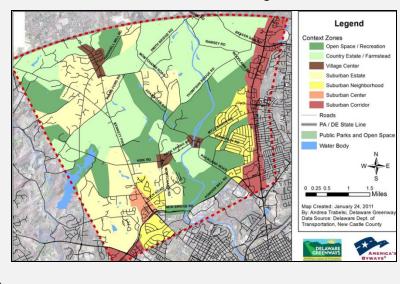
- Land Use Contexts:
 - Suburban Estate
 - Open Space / Recreation
 - Village Center
 - Suburban Neighborhood
 - Country Estate Farmstead
 - Suburban Center
 - Suburban Corridor

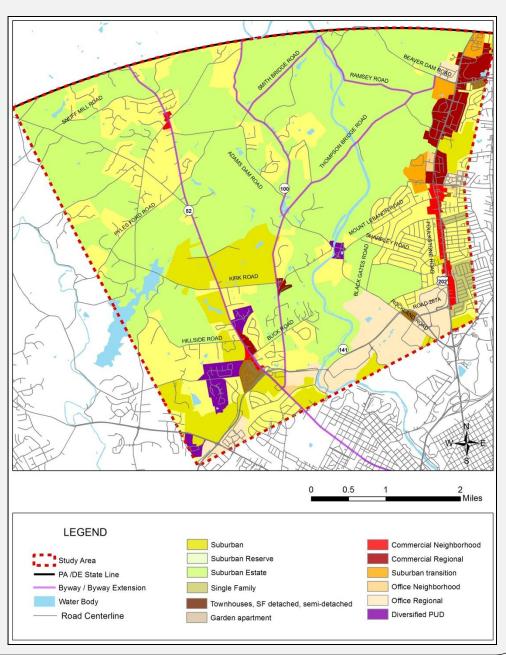
Existing Land Use Context Map



Zoning Map

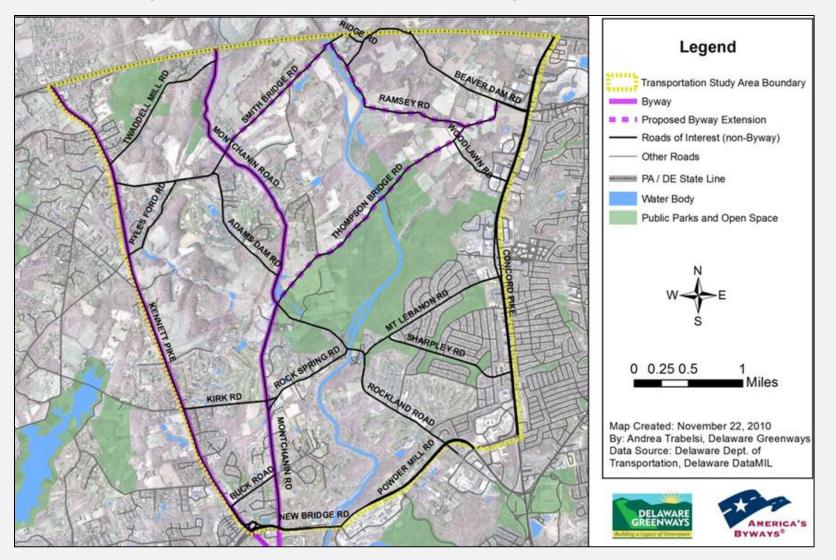
Context Zones (for comparison)



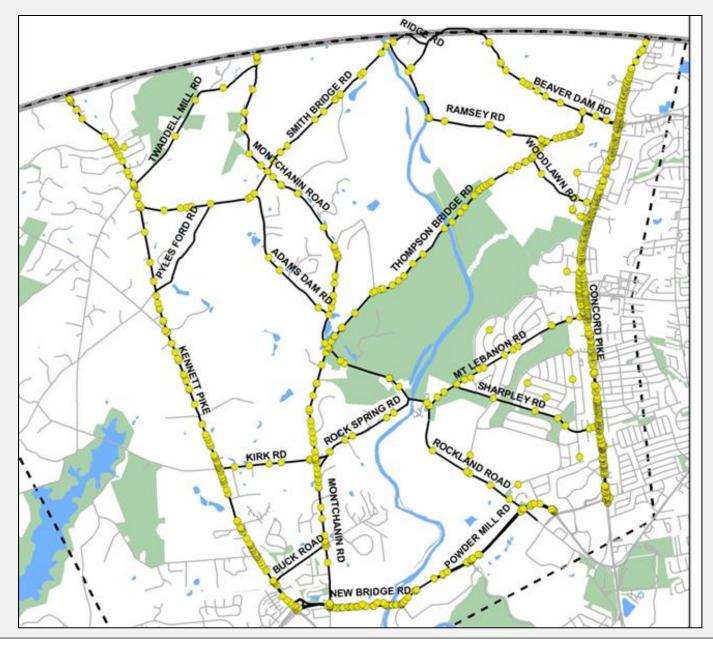


Transportation

Study Area Roadways



Study Area Crashes



Study Area Crashes

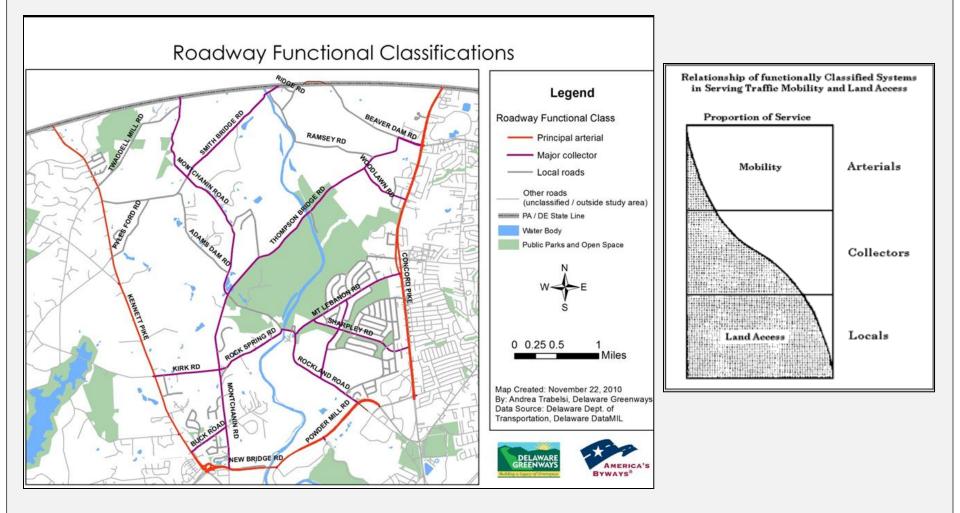
Table3.3-A: Crashes by Roadway

Roadway	Total Crashes	Injury Crashes	Fatalities Crashes	Pedestrian Crashes
Route 202	726	32	1	4
Route 52	178	10	1	1
Montchanin Road	114	4	0	0
Thompson Bridge Road	72	4	0	0
Beaver Valley Road	15	3	0	0
Route 141	51	4	2	0
Center Meeting Road	7	0	0	0
Mt Lebanon Road	22	0	0	0
Ramsey and Creek Roads	17	3	0	0
Adams Dam Road	7	1	0	0
Rockland Road	13	0	1	0
Kirk Road	5	1	0	0
Smith Bridge Road	13	1	0	0
Buck Road	0	0	0	0
Twaddle Mill Road	3	0	0	0
Totals	1243	63	5	5

Crash Facts

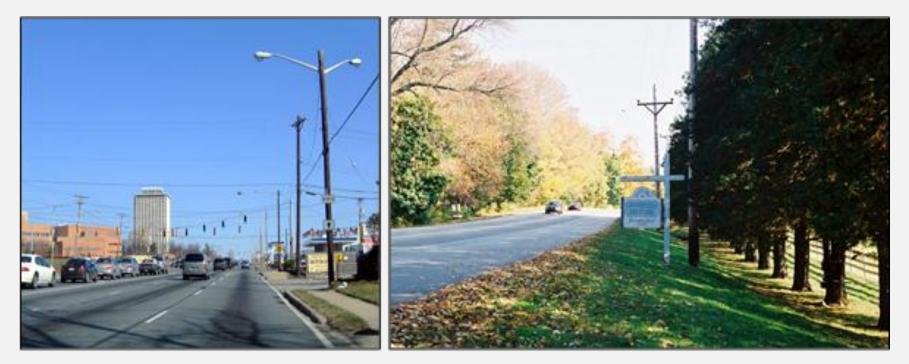
- Key Clusters: Rt. 52/82 Intersection, Rt. 92 Ramsey to Beaver Valley, Rt. 100 at Kirk and Rock Springs
- Crash Rates: Ramsey/Creek and BeaverValley: Four times higher than similar roadways.
- Day of Week: Most crashes occur on Friday; no other day is close
- Manner of Impact: Byway: 33%, Backroads: 56% are run off road crashes

Functional Classification



Problem with Functional Classification

Both of these Roadways are Principal Arterials Should improvement designs use the same design criteria?





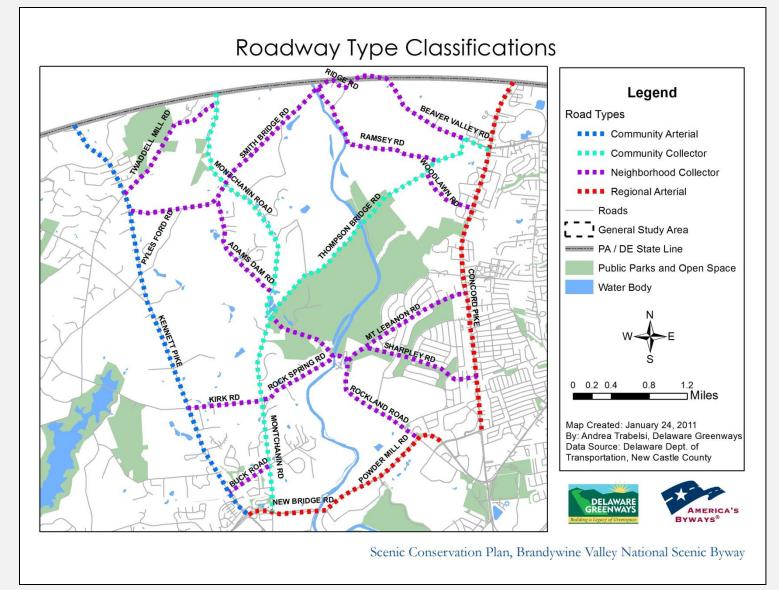
Route 52

Roadway Type

Roadway Class	Roadway Type	
Arterial	Regional	
Arterial	Community	
Collector	Community	
Collector	Neighborhood	
Local	Local	

- Roadway Type is based upon:
 - Type of trip served (through or local)
 - Adjacent land use
 - Enables context sensitive design
 - Has nothing to do with highway improvement funding

Study Area Roadway Types



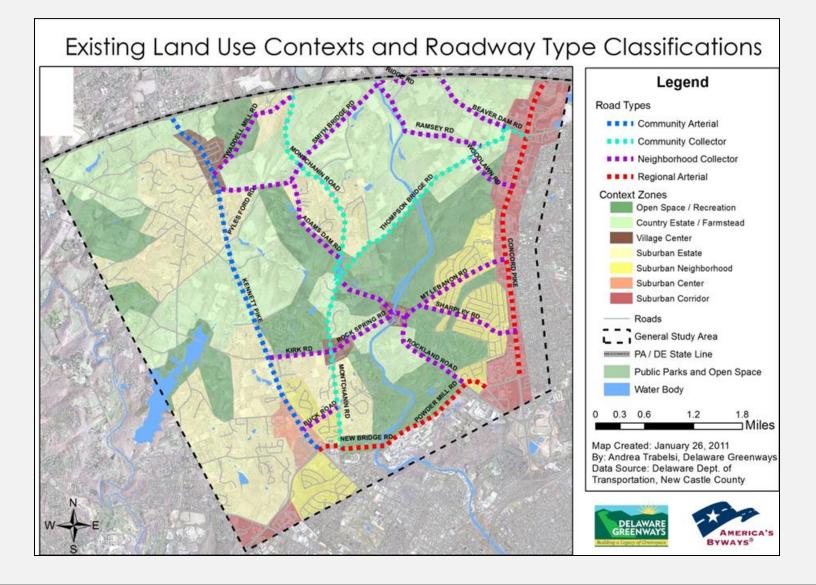
Road Name	Functional Class	Roadway Type	
US Route 202	Principal Arterial	Regional Arterial	
DE Route 52	Principal Arterial	Community Arterial	
DE Route 141	Principal Arterial	Regional Arterial	
DE Route 100	Major Collector	Community Collector	
DE Route 92	Major Collector	Community Collector	
Kirk Road	Major Collector	Neighborhood Collector	
Mt Lebanon Road	Major Collector	Neighborhood Collector	
Rockland Road	Major Collector	Neighborhood Collector	
Smithbridge Road	Major Collector	Neighborhood Collector	
Rock Spring Road	Major Collector	Neighborhood Collector	
Woodlawn Road	Major Collector	Neighborhood Collector	
Buck Road	Major Collector	Neighborhood Collector	
Sharpley Road	Major Collector	Neighborhood Collector	
Twaddell Mill Road	Local	Neighborhood Collector	
Adams Dam Road	Local	Neighborhood Collector	
Beaver Valley Road	Local	Neighborhood Collector	
Center Meeting Road	Local	Neighborhood Collector	
Creek Road	Local	Neighborhood Collector	
Ramsey Road	Local	Neighborhood Collector	
Note: All other roads in the study ar	ea are categorized as the "Local" roa	ad type.	

Table 3.6-B: Functional Classification and Roadway Type of Study Area Roadways

Synthesis of Key Existing

Issues

Linking Land Use and Transportation



Linking Land Use and Transportation

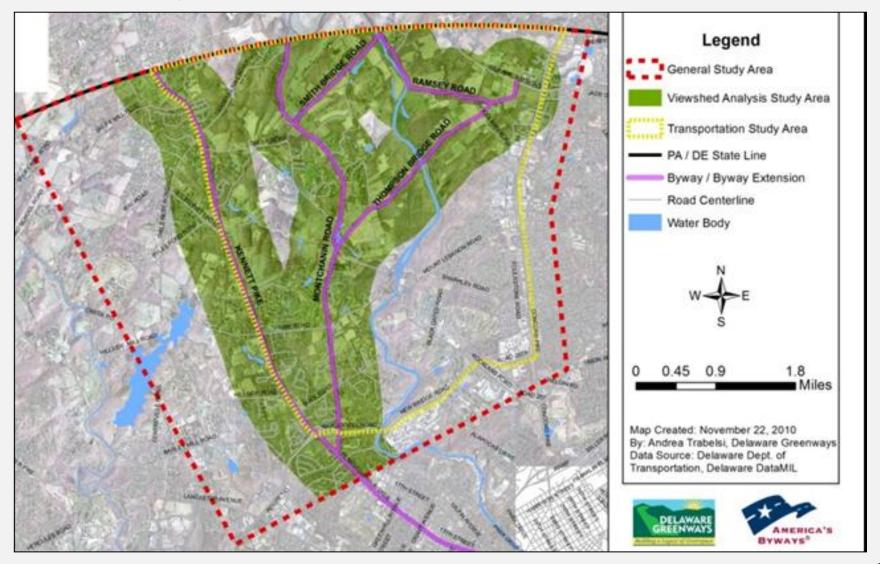
	Roadway Type				
Land Use Context District	Regional Arterial	Community Arterial	Community Collector	Neighborhood Collector	Local Roadway*
Open Space/Recreation	Х	Х	Х	Х	Х
Country Estate/Farmstead		Х	Х	Х	Х
Village Center		Х	Х	Х	Х
Suburban Estate		Х	Х	Х	Х
Suburban Neighborhood	Х		Х	Х	Х
Suburban Center		Х			Х
Suburban Corridor	Х			Х	Х
*All other roads shown in Figure 4.1-A, which are within the transportation study area are considered "Local" roads.					

Viewshed Analysis Report

Topics Covered

- Introduction
- Purpose and Methods
 - Viewshed Analysis—Key Component of the Scenic Conservation Plan
 - Previous Efforts and Supporting Resources
 - Study Area
 - Methodology
- Technical Identification of Viewsheds
 - Existing Conditions for KeyVisual Elements
 - Valuable Scenery, Vantage Points, and View Zones
 - Access
 - Protected vs. Unprotected
 - Community Preferences
- Conclusions

Study Area

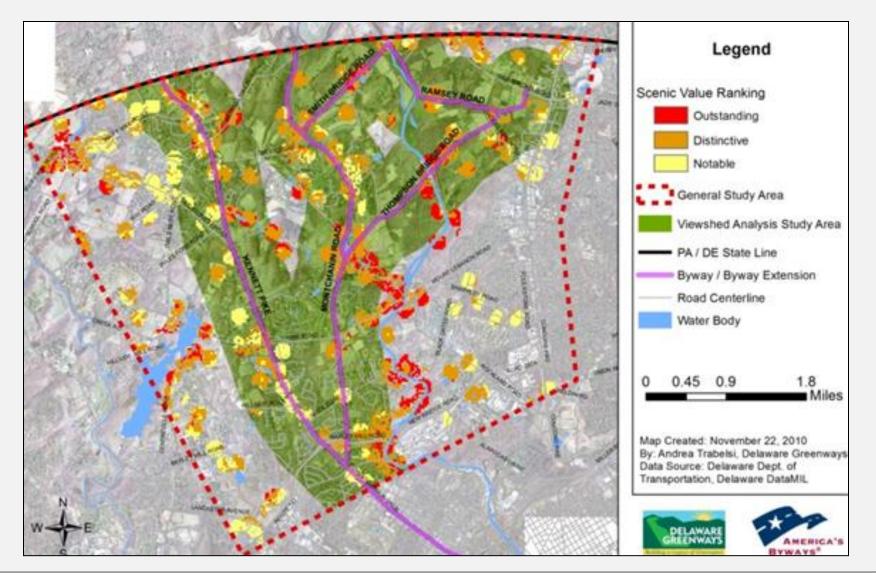


Methodology (Quantitative)

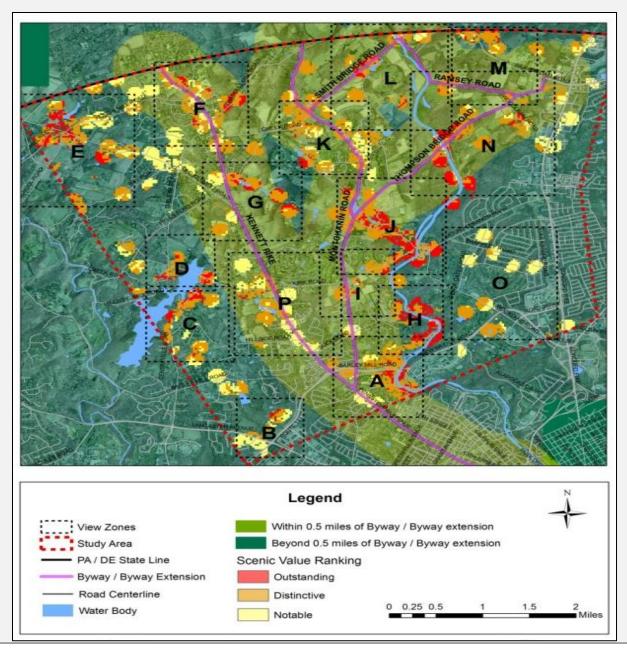
Landform	
Distinctive (3)	Predominantly undulating hills
Noteworthy (2)	Gentle slopes
Common (1)	Predominantly flat terrain
Vegetation	
Distinctive (3)	Predominantly open fields with mixed forest in the background
Noteworthy (2)	Large tracts of forest/vegetation in mid-ground
Common (1)	Scrub brush and non-distinct vegetation
Water	
Distinctive (3)	River/Creek/Lake predominant within foreground view
Noteworthy (2)	River/Creek/Lake in view or small pond in view
Common (1)	No water
Land Use	
Distinctive (3)	Agricultural land
Noteworthy (2)	Parkland, open space, and natural areas
Common (1)	Modern residential development and streetscapes
Cultural/Historic Character	
Distinctive (3)	Cultural/historic features dominate the view
Noteworthy (2)	Few cultural/historic features
Common (1)	Cultural/historic features are undetectable due to abundance of non-cultural/historic features in view
Views	
Distinctive (3)	Long/wide
Noteworthy (2)	Medium and/or narrow
Common (1)	Short
Composition	
Distinctive (3)	Significant unity and contrast
Noteworthy (2)	Some unity, contrast, and variety
Common (1)	Lack of unity, contrast, and variety

Table 2.4.A: Scenic Resources Ranking Criteria from Saratoga, NY study

Scenic Value Ranking (Quantitative)



View Zones



Viewshed Field Day



Group 1: James Willson, Councilman Bob Weiner, Jaynine Warner, Ellie Moroney



Group 2: Board Member Miguel Pena, Jack Hunt, Sally DeWeese, Jeff Greene



Group 3: L to R: Paul Morrill, Councilwoman Janet Kilpatrick, Winnie Li, Andrea Trabelsi, David Zylstra

- Highly valuable viewsheds of concern:
 - Portions of the Granogue estate
 - Biderman Golf Course
 - Woodlawn Trustees land
 - Ramsey Farm



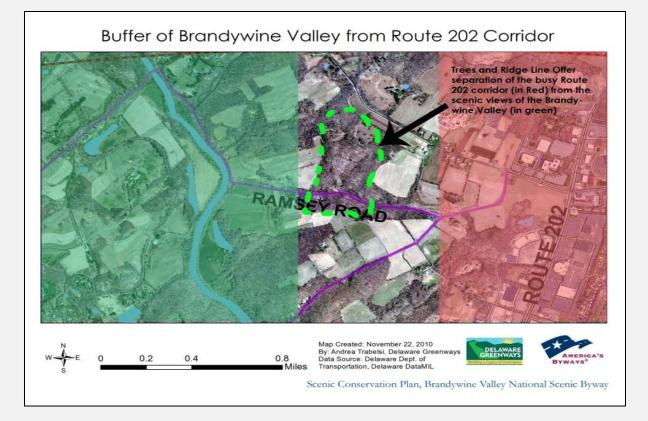
• Viewpoints identified in this study should be field verified and protected as part of any development plan.



• Additional field verification of other View Zones in the BVNSB study area should be undertaken as the study proceeds and thereafter including scenery along trails.



• Landscapes that buffer developed areas from valuable views help achieve sustainable development.



• The possibility of a Rail-with-Trail path along the tracks Wilmington Western Railroad that runs adjacent to Granogue should be explored.



 Explore the possibility of paving the Northern Delaware Greenway Trail spur between Ramsey Road and Thompson's Bridge Road



Caution: Some felt paving might detract from natural/rustic character of surroundings. May need a survey of users to assist in the decision.

• Design Guidelines Considerations:



Avoid unsightly 'jersey barriers' on bridges



Develop an improved grass shoulder



Use rustic guardrails instead of galvanized steel.



Continue use of boulders as borders

Emerging Issues

- Wastewater and water resources, public water and sewers (future environmental issues?)
- Large landowners (which ones will unexpectedly develop?)
- Pedestrian and bicycle access (encouraging bicycles and pedestrians to use windy roads?)
- Access to trails and scenic areas (seeing viewsheds from moving vehicles?)
- Traffic signing and signing by property owners (sign clutter, consistency)
- Development access and development layout (cul-de-sac developments)
- Context sensitive design manual (level of specificity?)
- Land development guidelines (what types/designs of developments are preferred?)

Comments



Discussion

Next Steps

THE THE WALKER STORES

Next Steps

- Develop the Trend Scenario:
 - Elements:
 - 1. Preparation of demographic projections
 - 2. Estimation of maximum number of landowner entitlements
 - 3. Estimation of entitlements needed to accommodate demographic projections
 - 4. Allocation of entitlement projections to most likely to be developed lands
 - 5. Run travel demand model
 - 6. Identification of problems and challenges
 - 7. Development of common vision, goals, and objectives
 - 8. Committee Meeting(s)
 - Public Presentation