

Stormwater Management & Transportation Scoping Study

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Bryan Osborne – Director of Public Works **Sarah Hadd** – Director of Planning & Zoning



Marshall Distel – Transportation Planner Eleni Churchill – Transportation Program Manager



Project Team – Consultants



Amy Macrellis – Stormwater Task Leader



Wayne Elliot, PE – Stormwater Technical Advisor



David Saladino, PE, AICP – Project Manager Evan Detrick, PE – Bike and Pedestrian Task Leader

Agenda

Introductions

- Project Overview David Saladino
- Project Context Bryan Osborne
- Stormwater Management Plan Amy Macrellis
- Lakeshore Drive/Blakely Road Intersection Overview David Saladino
- Bicycle/Pedestrian Overview Evan Detrick

Breakout Groups

- Stormwater Management Amy Macrellis, Wayne Elliot
- West Lakeshore Drive Bike & Pedestrian Improvements Evan Detrick
- Lakeshore and Blakely Intersection Improvements David Saladino
- Closing Discussion
 - Discussion Summary
 - Next Steps



Project Overview

Malletts Bay Initiative

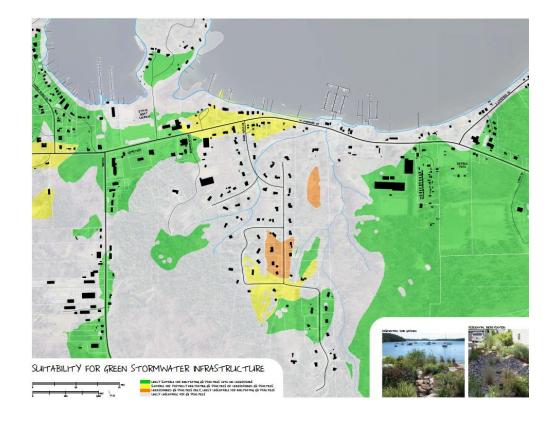
Three Scoping Reports

- Stormwater, Bicycle/Pedestrian, Intersection
- Synergies Between Projects
- Identify issues > develop & analyze alternatives > select preferred alternative

Schedule

- Kick-Off Meeting
- Evaluate Existing Conditions
- Local Concerns Meeting
- Alternatives Assessment
- Selection of Preferred Alternative
- Scoping Report

November November – December Tonight February-May May July-August



Project Context

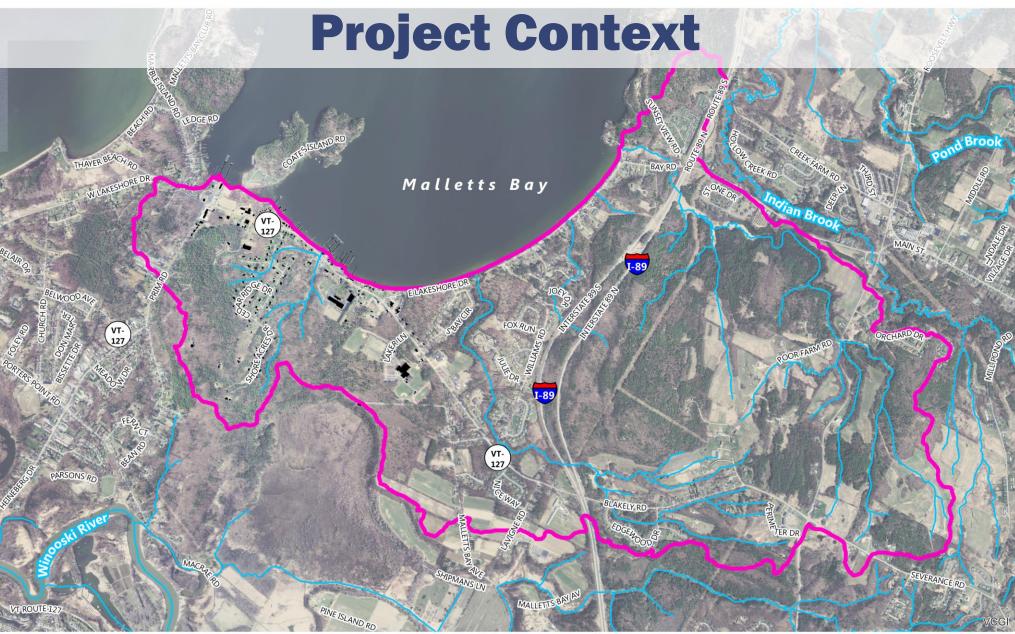
Overall Goals and Priorities

- Improved water quality
- Improved recreational, cultural, and educational opportunities for all ages
- Welcoming, small-scale, yet vibrant infill and redevelopment
- A safe and efficient transportation system for all users
- A four-season destination for both residents and tourists



Project Context

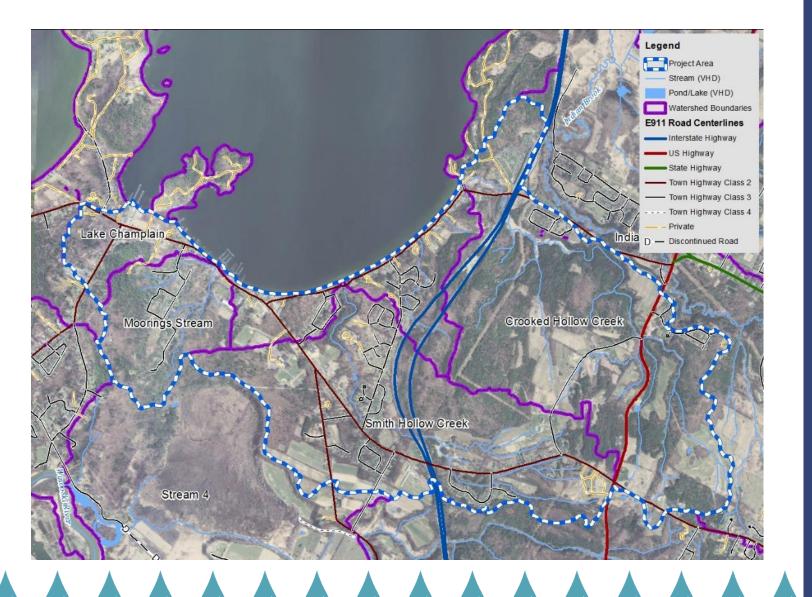
- Implementation Projects
 - Malletts Bay Stormwater System
 - Malletts Bay Sewer System
 - Re-Zoning to include Low Impact Development Standards
 - Community Center
 - Blakely Road/Laker Lane Intersection
 - Blakely Road/East Lakeshore Drive/West Lakeshore Drive Intersection
 - West Lakeshore Drive/Prim Road Intersection
 - West Lakeshore Drive Pedestrian Improvements
 - Route 127 By-Pass Road



Malletts Bay Stormwater Management System & Transportation Scoping | Colchester, Vermont

Stormwater Management

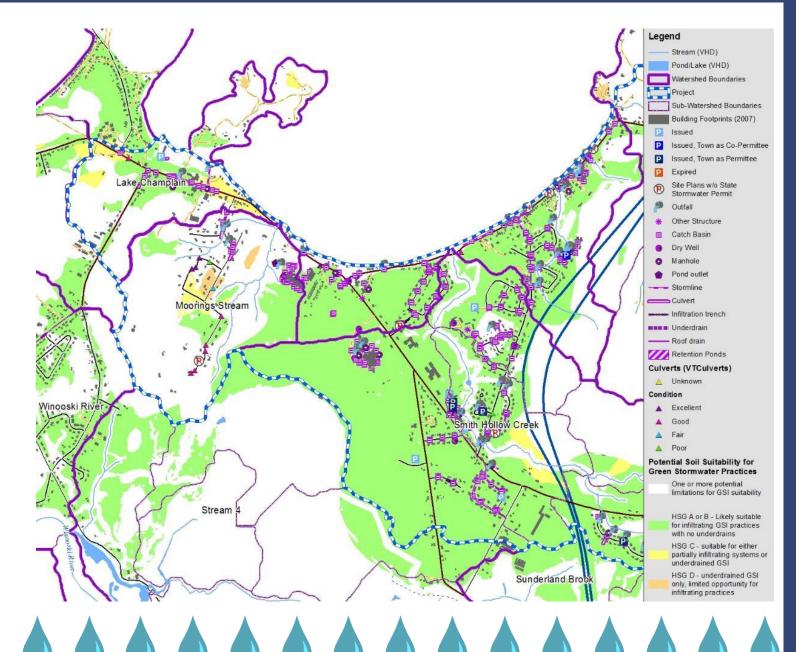
- Goal
 - Comprehensive runoff management system for Town-owned property
 - Including roadways along Lakeshore Drive and upland watershed areas
 - Coordinate with and leverage anticipated infrastructure projects to protect and enhance water quality



What We Know

- Locations of existing stormwater management infrastructure
- General locations of existing:
 - Drainage and erosion problems
 - Environmental constraints
- "Marching orders" for stormwater treatment standards

 Preference for "green" infrastructure in keeping with MBI outcomes



What We Need

What problems or opportunities might we be missing?

Alternatives must 'meet' or 'exceed' state stormwater standards for water quality.











What Can "Green" Look Like?

What do you want to see – in neighborhoods, next to streets or sidewalks, in cul-de-sacs?



Green street retrofit, pervious sidewalk and stormwate planters, Ohiopyle, PA

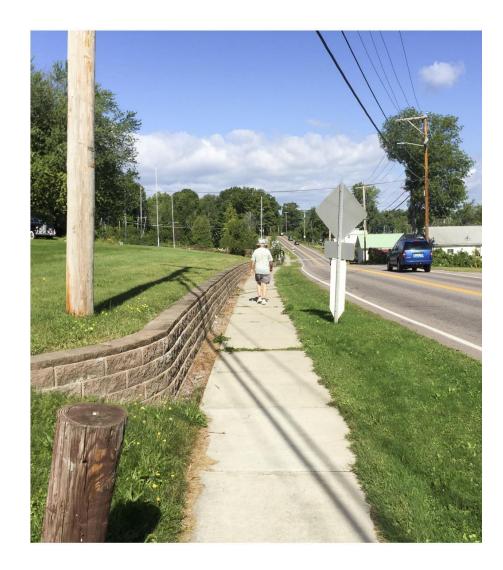






Goals

- Improve safety and mobility for bicyclists and pedestrians
- Accommodate road users of all ages and abilities
- Integrate sustainable stormwater infrastructure with design alternatives













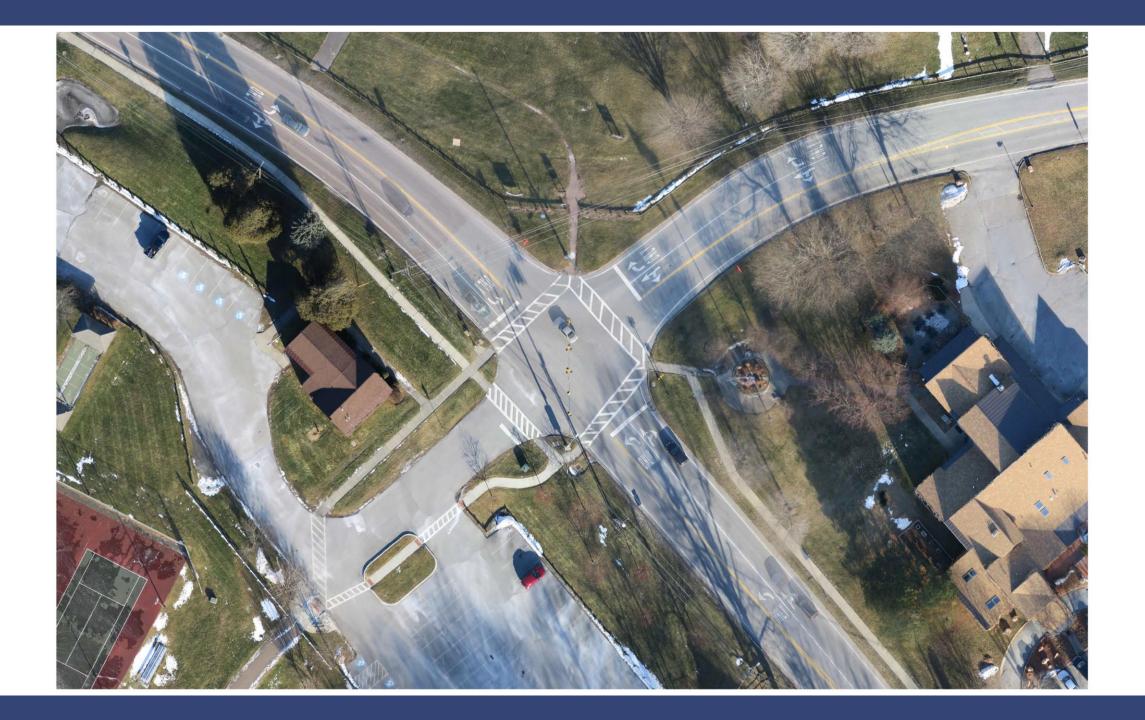


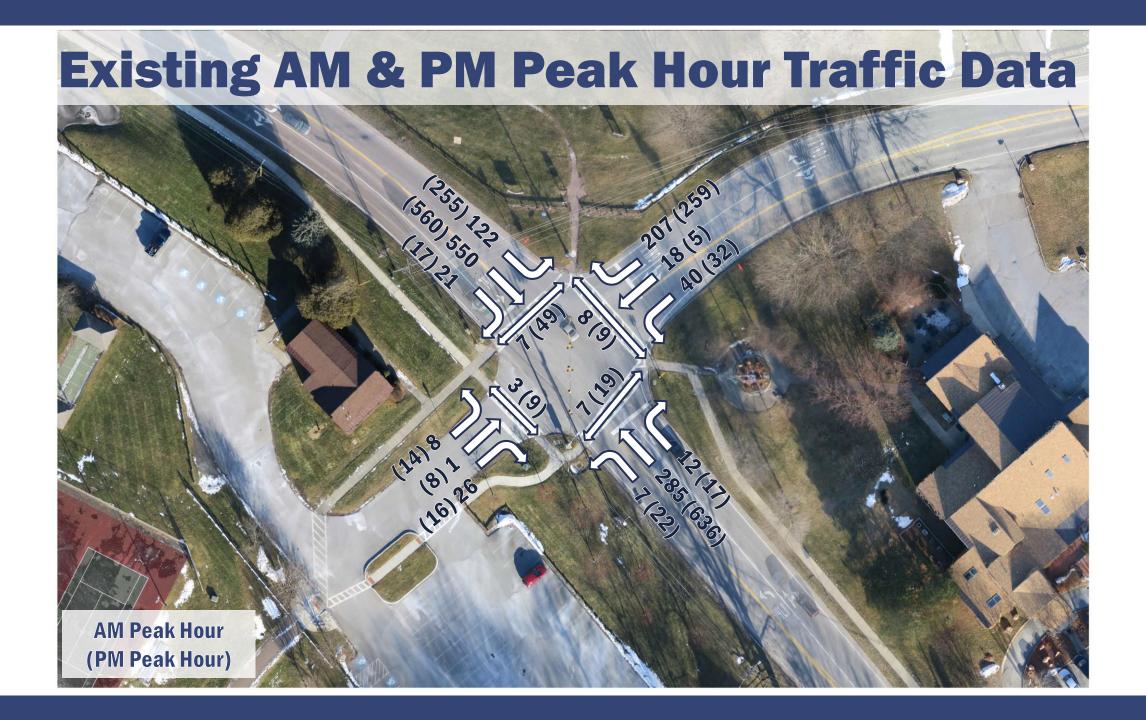
Lakeshore Drive and Blakely Road Intersection Improvements

• Goals

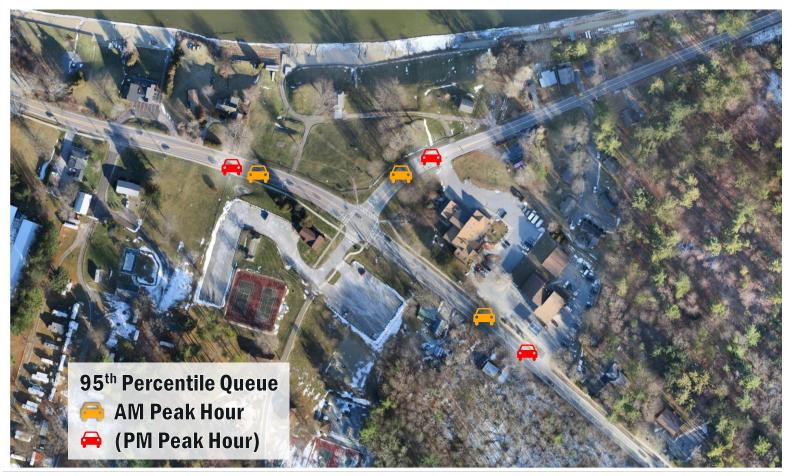
- Enhance operational efficiency / decrease congestion
- Increase safety for all modes
- Accommodate safe crossing for pedestrians and bicyclists
- Increase capacity







Existing Queues & Levels of Service



		2016 No Build		
Intersection	Peak Hour	v/c*	Delay**	LOS***
Blakely Rd at East and West Lakeshore Dr	Weekday AM	0.62	18	В
	Weekday PM	0.82	36	D

* Volume to capacity ratio

** Delay expressed in seconds per vehicle

*** Level of service

Critical Lane Movements -

- <u>Blakely Rd thru/right</u>: LOS E, v/c = 1
- <u>W. Lakeshore Dr left</u>: LOS D, v/c = 0.81

Lakeshore Drive and Blakely Road Crash Summary

• 2010-2014 Crash Data

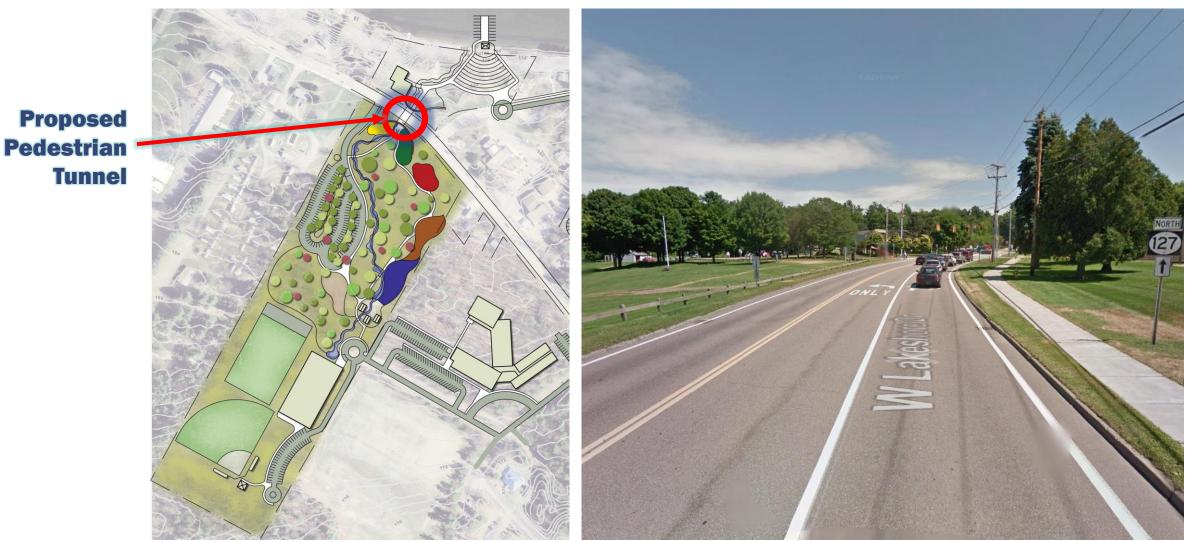
- VTrans High Crash Location (HCL)
- Ranked 105th HCL in the state
- 24 crashes in 5 years
 0 Fatalities, 3 Injuries

• 2011-2015 Crash Data

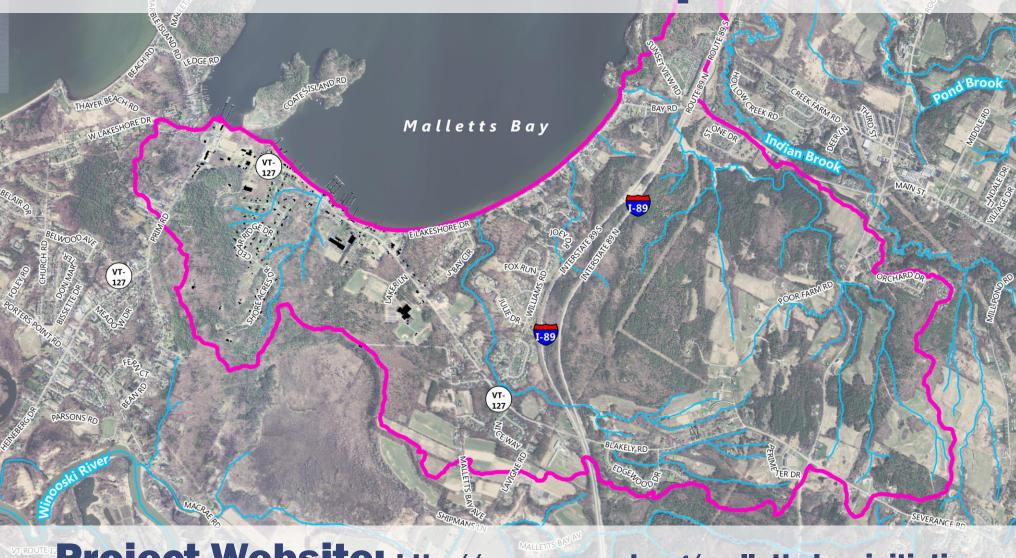
- 33 crashes in 5 years
 - $_{\odot}~76\%$ Rear End Crashes
 - $_{\odot}$ 12% Single Vehicle Crashes
 - No Cyclist or Pedestrian Crashes



Bayside Parks Master Plan

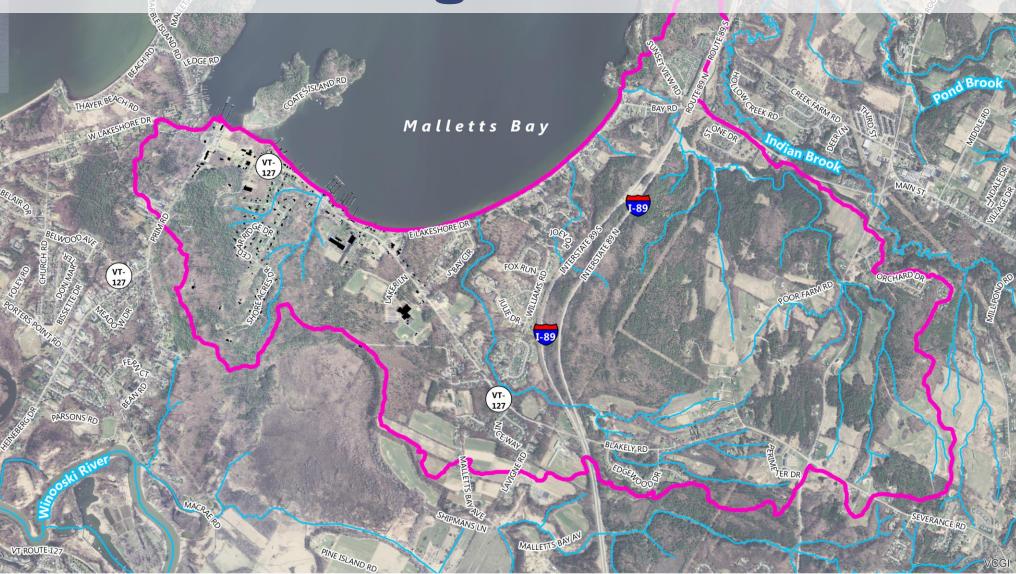


Break-out Groups



Project Website: http://www.ccrpcvt.org/malletts-bay-initiative

Closing Discussion



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Next Steps...

- Watershed Delineation & Develop Alternatives
- Public Input on Alternatives ~May 2017
- Identify Preferred Alternative
- Selectboard Approval ~July 2017



