

Wolfeboro 29615

NH Route 28 Improvements

Public Informational Meeting

August 24, 2023

Agenda

- Welcome and Introductions
- Project History and Purpose and Need
- Public Informational Meeting 1 Recap & Alternatives Evaluation
 - Corridor Alternatives
 - McManus Alternatives
 - Pickering Corner Alternatives
- Environmental Considerations & Evaluation
- Recommended Alternative
- Schedule & Next Steps
- Public Opinion Survey
- Questions & Discussion

Welcome and Introductions

- Stantec
 - Gerard Fortin, PE, Principal in Charge
 - David McNamara, PE, Project Manager
 - Tyler Gagnon, PE Project Engineer
- NHDOT
 - Jason Ayotte, PE, Project Manager
 - Kathleen Corliss, PE, Design Engineer
 - Sarah Healey, Design Engineer
 - Rebecca Martin, Environmental Coordinator

Project History

- 2010-2017 Corridor Study Sponsored by Town
- 2018 Preliminary Recommendations to NHDOT
- 2019 Develop Public Informational Plan & Begin Project Advisor Committee (PAC Meetings)
- 2021-2023 Alternatives Development & Public Outreach



Purpose and Need

The purpose of the project is to improve NH Route 28 between Pleasant Valley Road and NH Route 109 (Pickering Corner):

Pavement Condition; no major improvements have been made to NH Route 28 since the 1930s. As a result, the pavement is deteriorating at the edge of travel way, and maintenance is required routinely at the limits of the concrete slab constructed.

Drainage; the existing drainage systems and flat grading creates maintenance and water quality concerns. For example, flat grades creating safety concerns due to ponding and inadequate collection deteriorates sidewalks, adding maintenance responsibility, and degrades water quality.

Mobility; the existing pavement width of 24' is creating conflicts between cars, bicyclists and pedestrians because it is not wide enough to accommodate the demand for multiple modes of transportation in this corridor. NH Route 28 is a priority identified within the regional and Statewide Pedestrian and Bicycle Transportation Plans. The bicyclist stress and pedestrian conflicts were identified at the Corridor Study Public Information Meetings.

Safety; the existing condition levels of service and accessibility at intersections is poor. The safety concerns include speed through the corridor, as well as pedestrian conflicts at intersections and uncontrolled crossings concerns raised during the Corridor Study Public Information Meetings.

Project Development Process

Preliminary Design:

- Data Collection
- Engineering Analysis
- Develop Alternatives
- Select Alternative
- Public Hearing

Final Design:

- Final Engineering and Project Details
- Environmental Permitting
- Acquisition of property rights



Project Information & Website





Wolfeboro 29615

The purpose of the project is to improve the pavement condition, drainage and water quality, mobility, and safety of NH Route 28 between Pleasant Valley Road and the intersection of NH 28/109, known as Pickering Corner.

Contact:











Jason M. Ayotte, P.E.
(603) 271-3921 | Jason.M.Ayotte@dot.nh.gov

Available Files

- [Location Map](#) 
- [Route 28 Corridor Preliminary Project Planning Report](#) 
- [Project Roll Plan](#) 
- [Public Involvement Plan](#) 

Project Informational Meeting #1, February 16, 2023

Wolfeboro Town Hall

- [Presentation](#) 
- Public Opinion Survey - Available until April 1, 2023
- McManus/Pleasant Valley Intersection
 - [Alternatives](#) 
 - [Traffic Simulation](#)
- Pickering Corner – NH 28/NH 109 Intersection
 - [Alternatives](#) 
 - [Traffic Simulation](#)
- NH 28/South Main Street Corridor
 - [Pedestrian Crossing Plan](#) 
 - [Drainage & Water Quality](#) 
 - [Natural & Cultural Resources](#) 
- Additional Handouts
 - [SECTION 106 \(nh.gov\)](#) 
 - [Section 106 Handout](#) 
 - [Mini Roundabout Examples](#) 
 - [Mini-Roundabout Brochure, Courtesy Kentucky Transportation Cabinet](#) 



<https://www.dot.nh.gov/projects-plans-and-programs/project-center/wolfeboro-29615>

Public Informational Meeting Recap

February 16, 2023 Public Informational Meeting (PIM)

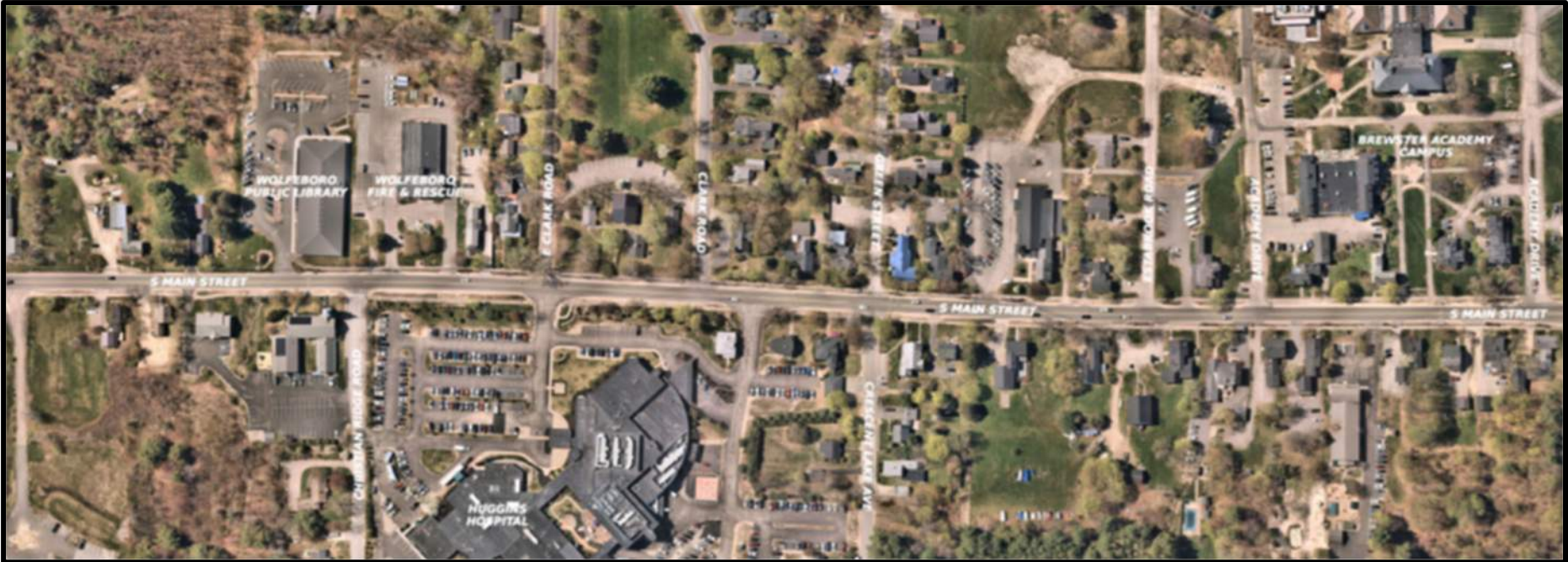
- Nearly 60 Attendees
- Four Stations
 - McManus/Pleasant Valley
 - Pickering
 - Corridor
 - Environmental/Stormwater

Robust Survey Response

- 82 Responses – Four separate surveys
- Ratings, preferences, open comments on project elements of each of the four breakouts.

Alternative Considerations

Project Corridor



Survey Results - Corridor

Primary Concerns

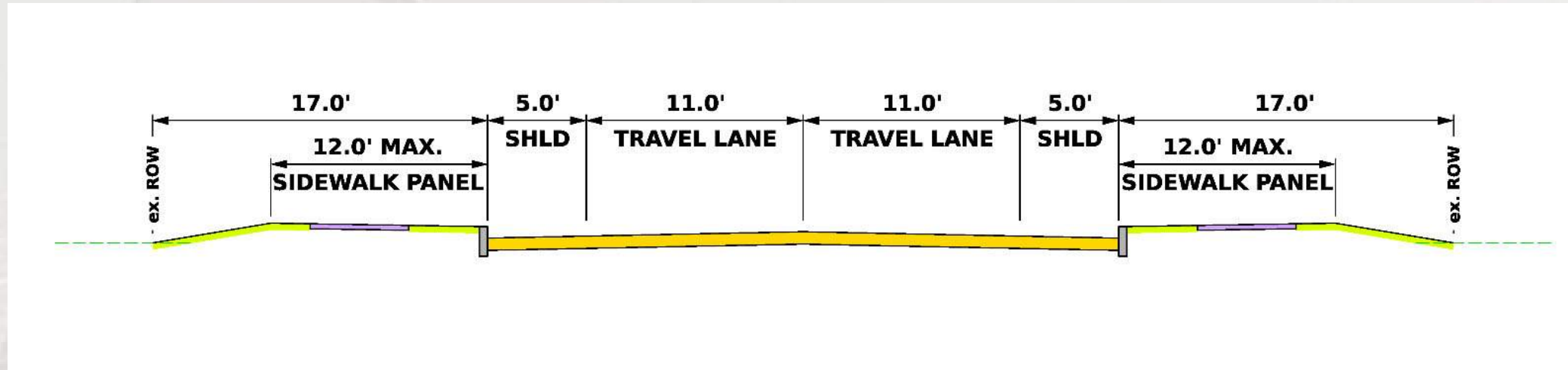
- Traffic Speeds
- Lack of Pedestrian Accommodations
- Pedestrian Crossings
 - Locations
 - Safety
- Lack of Bicycle Accommodations
- Golf Course Crossing

Preferred Sidewalk

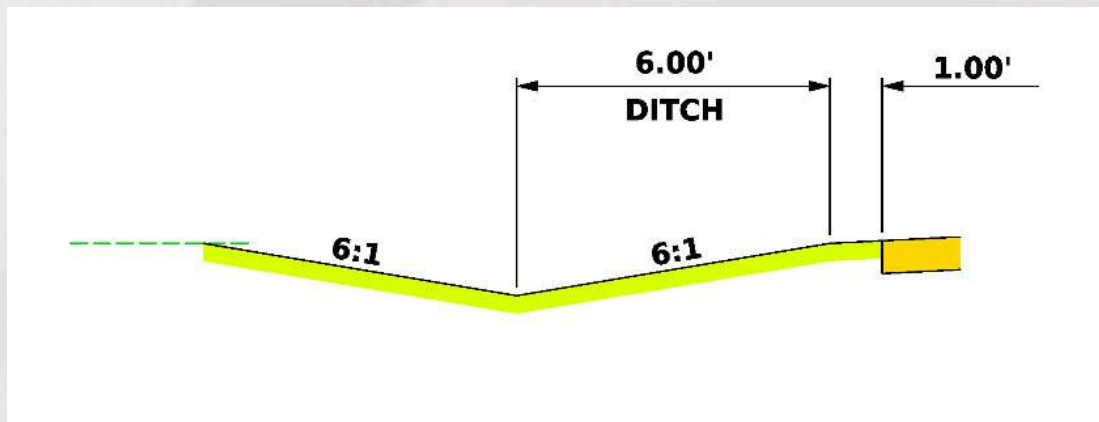
- 0' to 4' Panel
- Straight Path



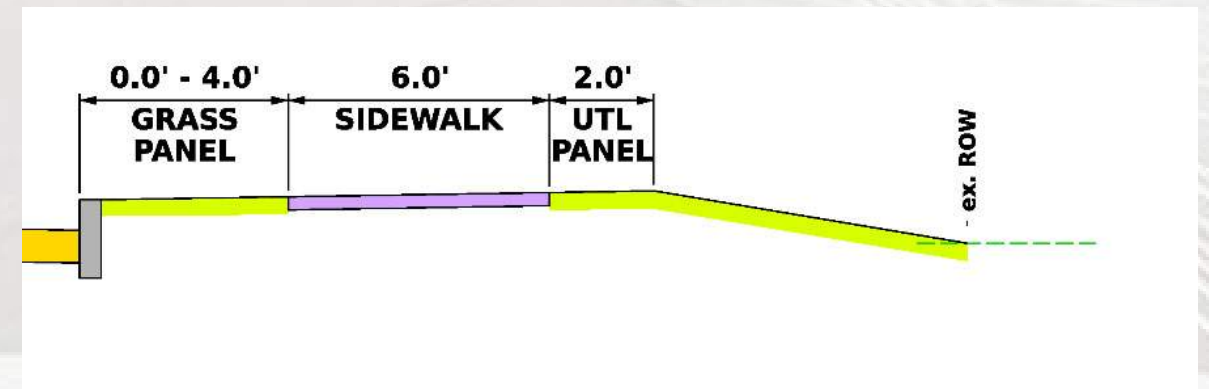
Corridor Base Typical Section



Full Section – 66' Right of Way



No Sidewalk



Sidewalk Panel

Alternative Considerations

Project Corridor



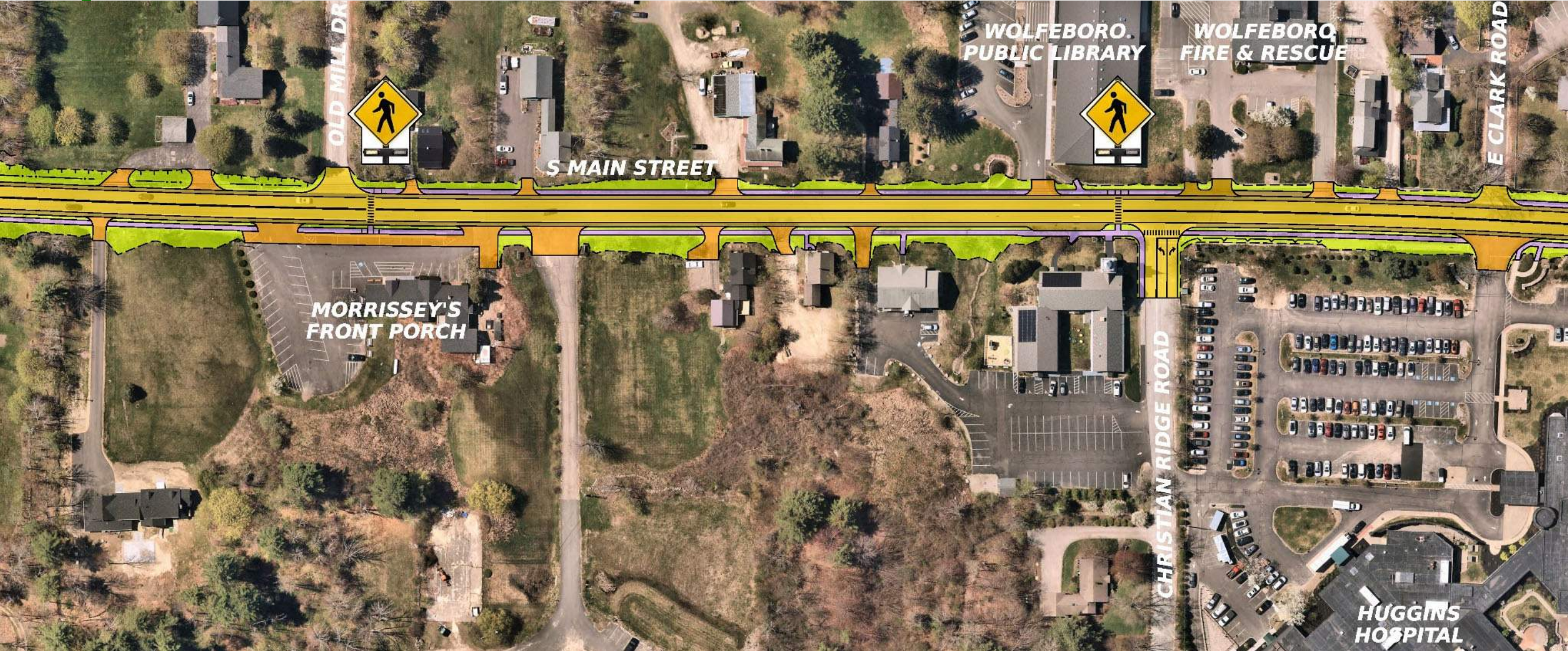
Alternative Considerations

Project Corridor



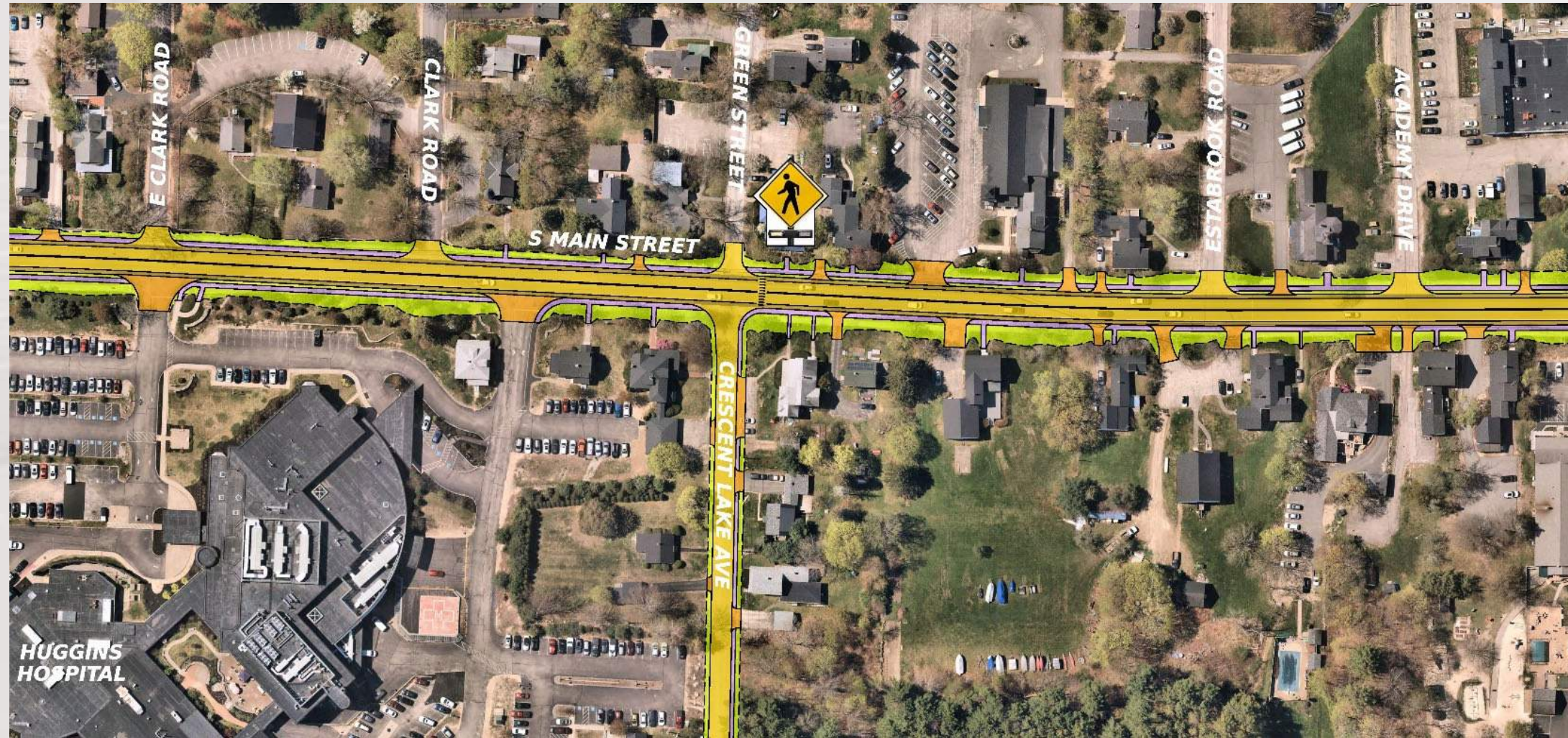
Alternative Considerations

Project Corridor



Alternative Considerations

Project Corridor



Match this sheet



Match this sheet

Alternative Considerations

Pleasant Valley Road/McManus Road



Alternative Considerations

Pleasant Valley Road/McManus Road (Existing and No-Build)



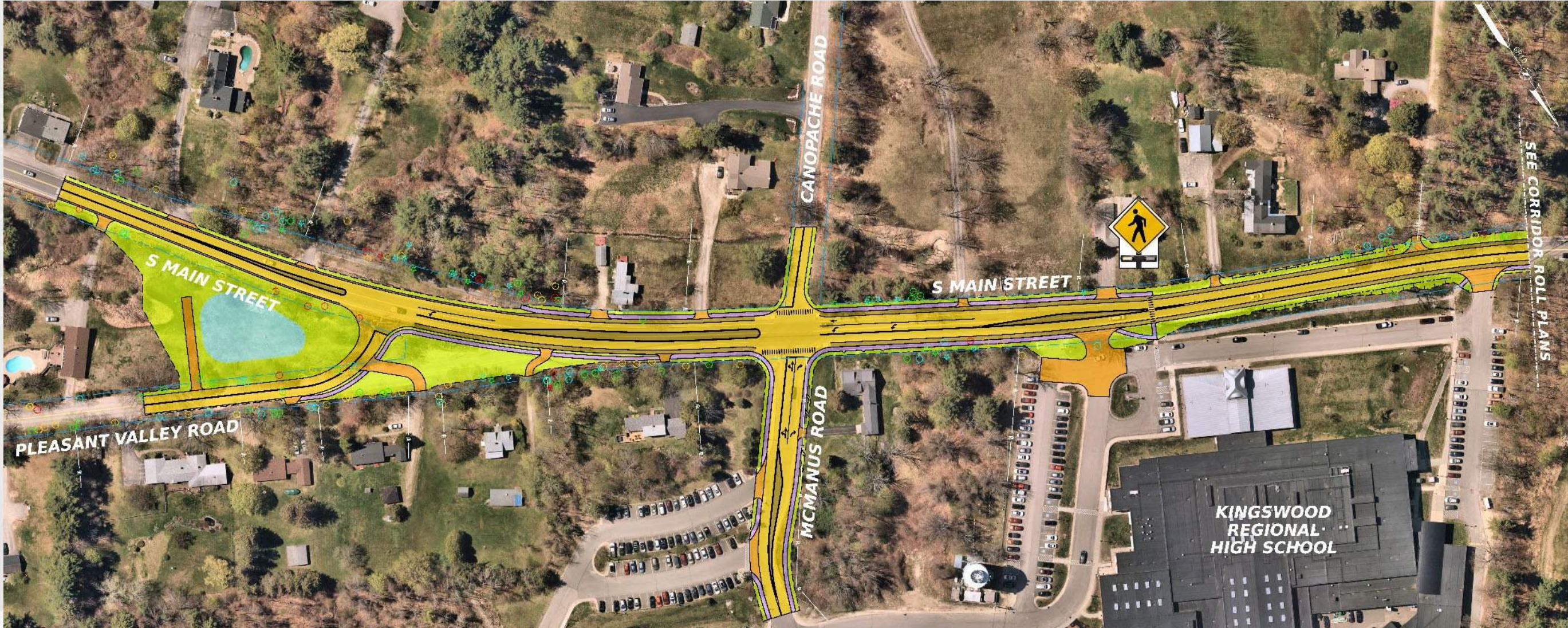
Alternative Considerations

Pleasant Valley Road/McManus Road – Minimum Build



Alternative Considerations

Pleasant Valley Road/McManus Road – Enhanced Striping



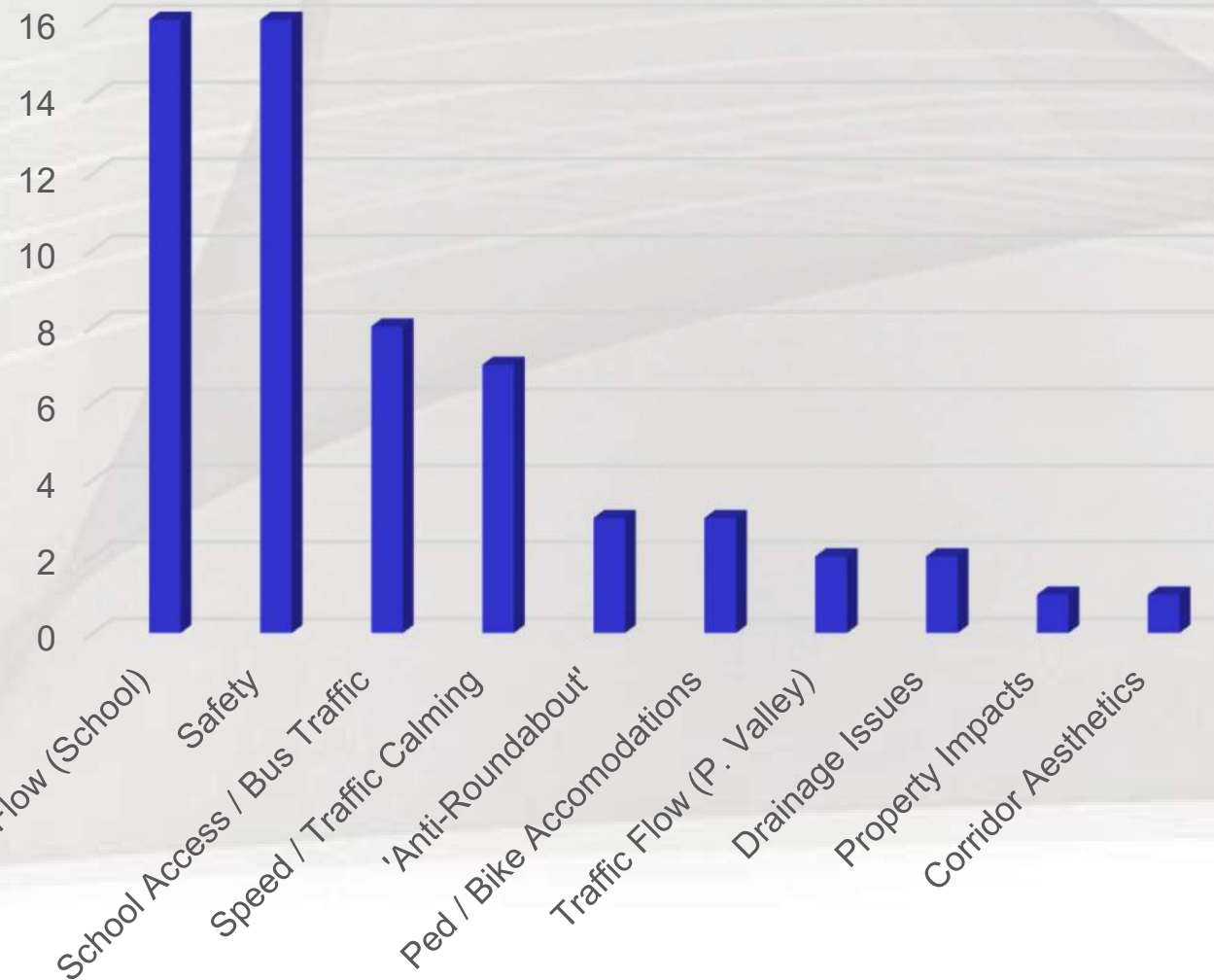
Alternative Considerations

Pleasant Valley Road/McManus Road – Compact Roundabout



Survey Results - McManus

Question 1 - Key Concerns



Preferred Alternative:

- 1 – Roundabout (20 votes)
- 2 – Enhanced Striping (16 votes)
- 3 – Minimal Build (9 votes)

Why Preferred:

- Traffic Calming
- Traffic Capacity
- Ped/Bike Accommodations
- Driver Clarity and Safety

Project Constraints

Layout:

- Maintain two lanes
- Maintain or increase sidewalks
- Improve bicycle facilities

Right of Way:

- Minimize impacts

Historic Resources:

- Identify and avoid
- Aesthetic treatments to enhance

Natural Resources:

- Existing Trees
- Water Quality
- Stormwater impacts
 - Icing
 - Erosion
 - Ponding

Landscaping:

- Maintain/Enhance

Alternative Rating

Criteria:

- Developed with help from PAC
- Considers Project Constraints
- Includes public responses from February PIM and Survey
- Ratings – Positive, Neutral, Negative
- Overall Score – Average of criteria

Rating Criteria – McManus

Criteria:	Pedestrian Safety	Survey Results	Property Impacts & ROW	Traffic Calming	Traffic Operations	Stormwater and Water Quality	Maintain Village Feel	Construction Costs	Overall
No Build	●		●	●	●	●	●	●	●
Minimum Build	●	●	●	●	●	●	●	●	●
Enhanced Striping	●	●	●	●	●	●	●	●	●
Enhanced Striping - All Stop	●		●	●	●	●	●	●	●
Compact Round-about	●	●	●	●	●	●	●	●	●

● - Negative ● - Neutral ● - Positive

Rating Results

Pleasant Valley Road/McManus Road

Compact Roundabout – Highest Rated

- Traffic calming at roundabout
- Improves pedestrian crossings
- Most efficient with traffic capacity
- Concerns with young drivers
- Right of Way impacts

Minimum Build – Acceptable

- Enhance pedestrian crossing with RRFB
- Minimal Right of Way impacts
- Minimize construction costs

Alternative Considerations

Compact Roundabout – Manchester, Vermont



Alternative Considerations

Pickering Corner



Alternative Considerations

Pickering Corner



Alternative Considerations

Pickering Corner – Minimum Build



Alternative Considerations

Pickering Corner – Enhanced Striping



Alternative Considerations

Pickering Corner – Signalized



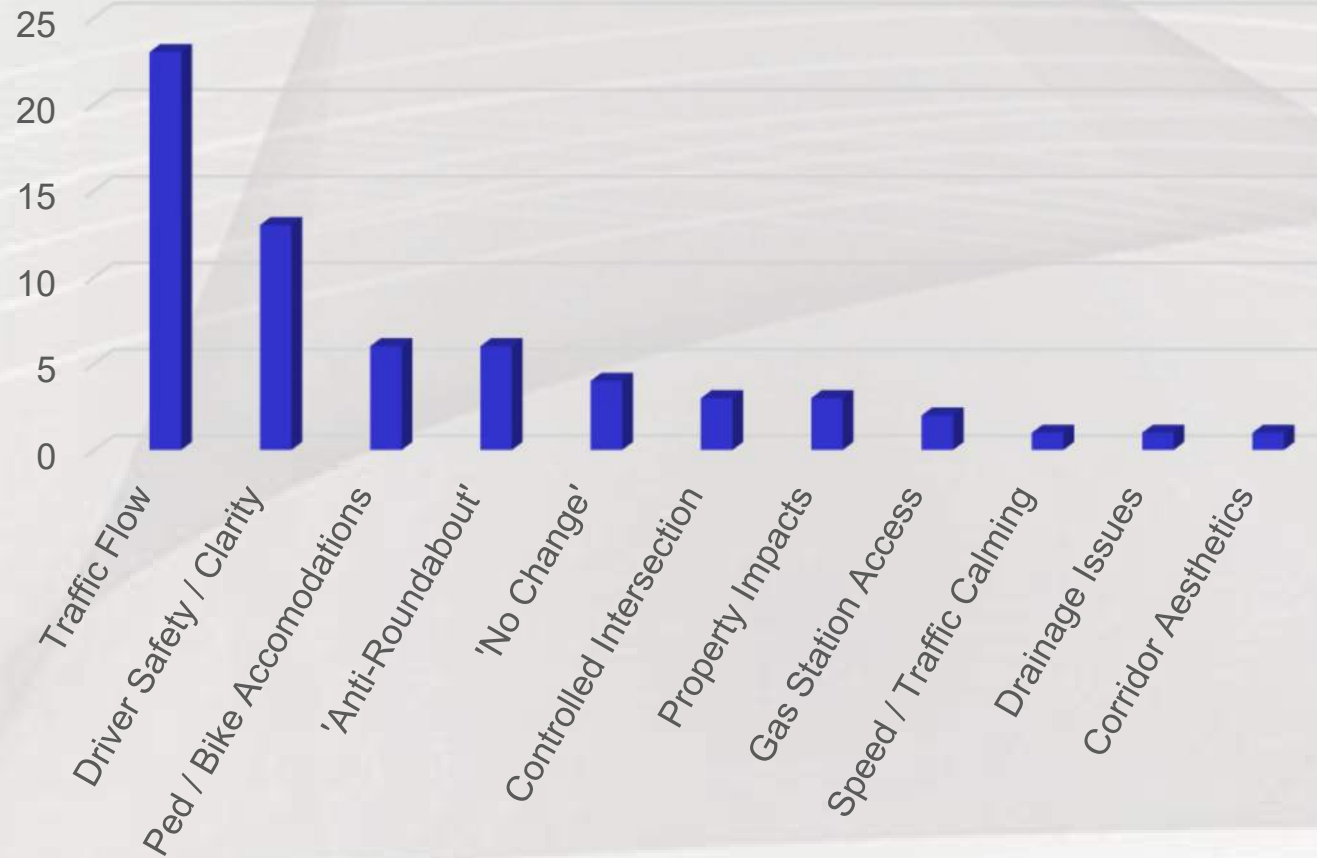
Alternative Considerations

Pickering Corner – Compact Roundabout



Survey Results – Pickering Corner

Question 1 - Key Concerns



Preferred Alternative:

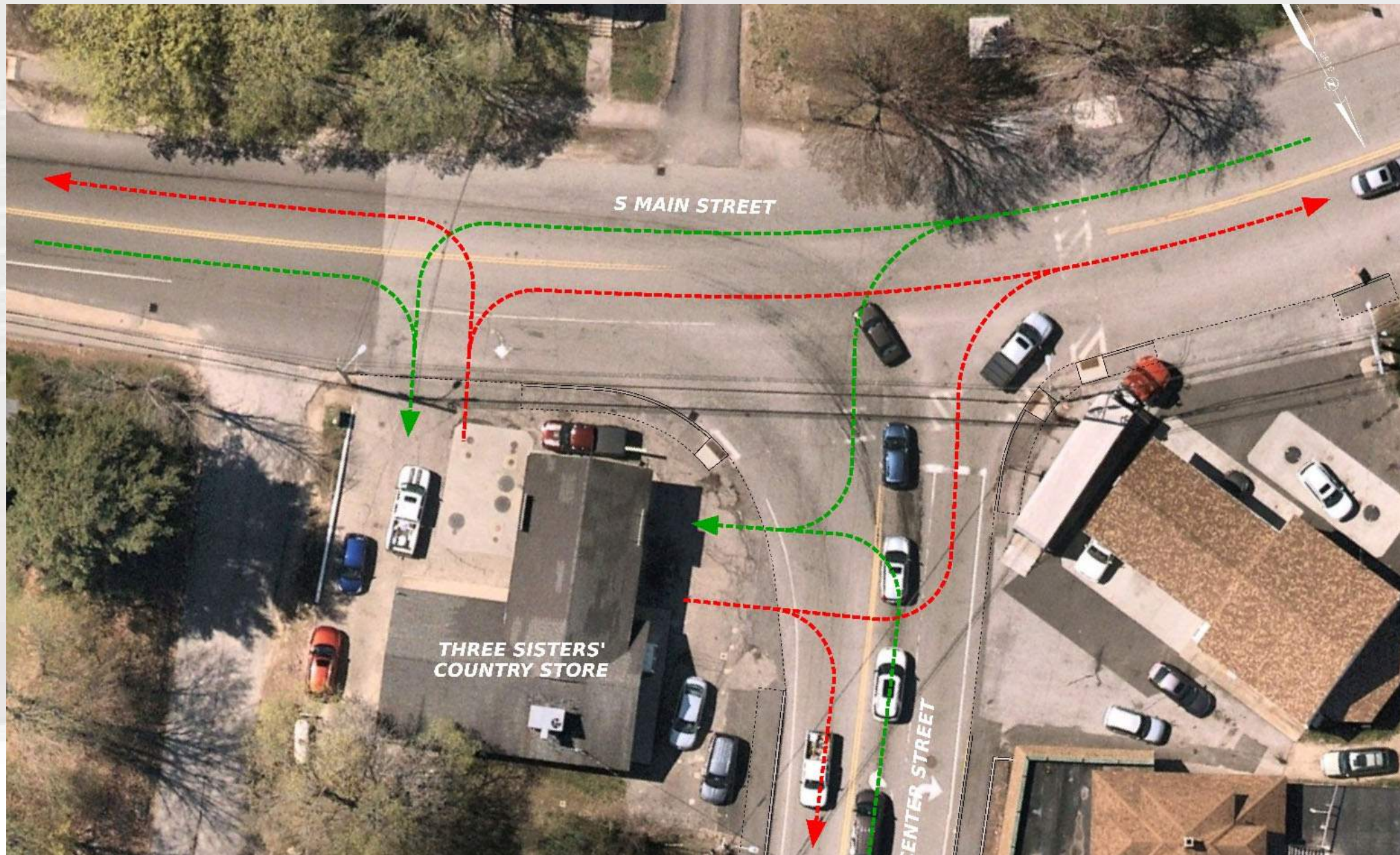
- 1 – Roundabout (20 votes)
- 2 – Signalization (11 votes)
- 3 – Enhanced Striping (9 votes)
- 4 – Minimal Build (6 votes)

Why Preferred:

- Traffic Capacity
- Traffic Calming
- Driver Clarity/Safety
- Landscaping
- Ped/Bike Accommodations

Alternative Considerations

Pickering Corner – Three Sister’s Site - Existing

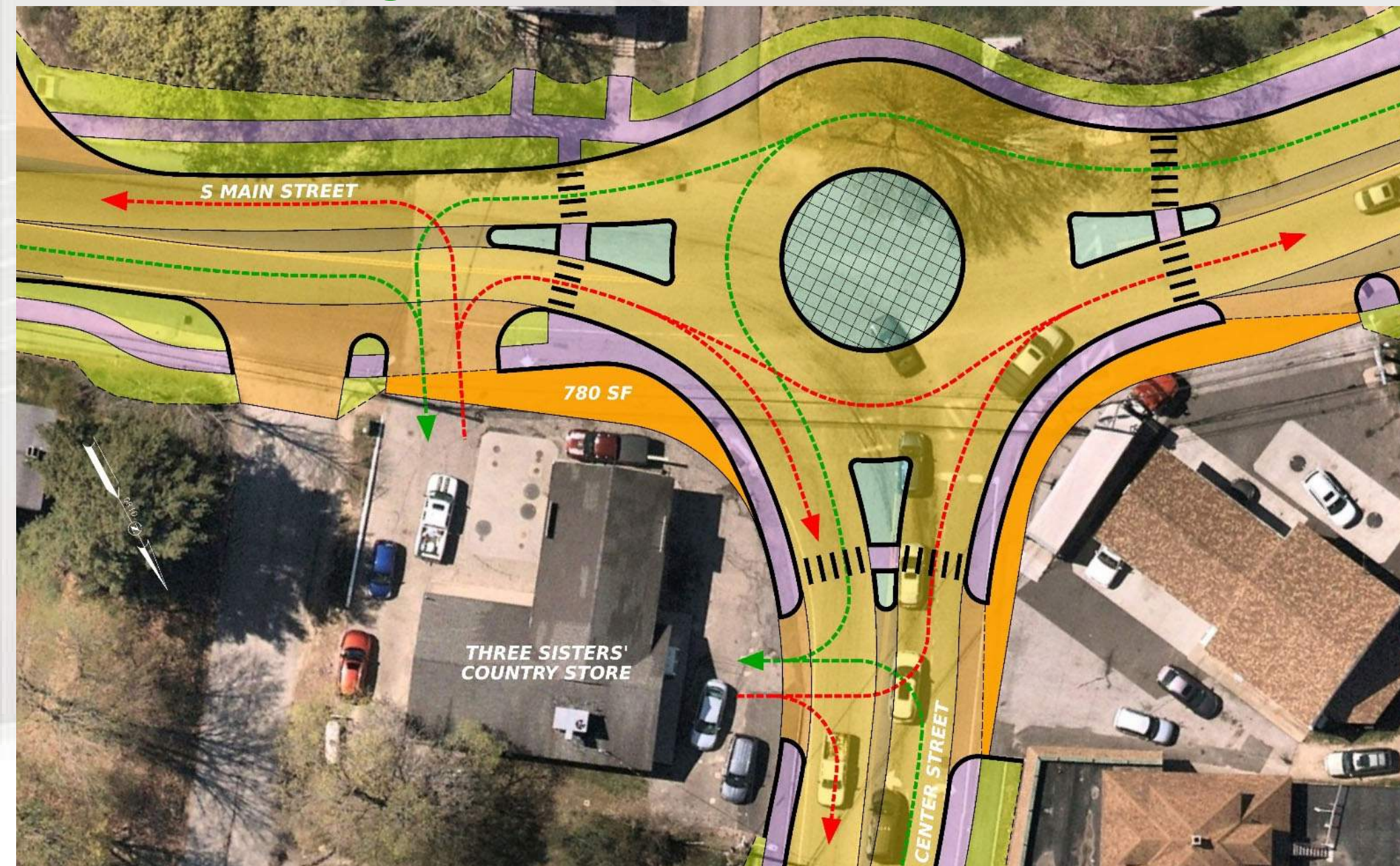


- Difficult left turns opposing traffic
- Open, undefined curb cuts
- Vehicles over sidewalk

Alternative Considerations

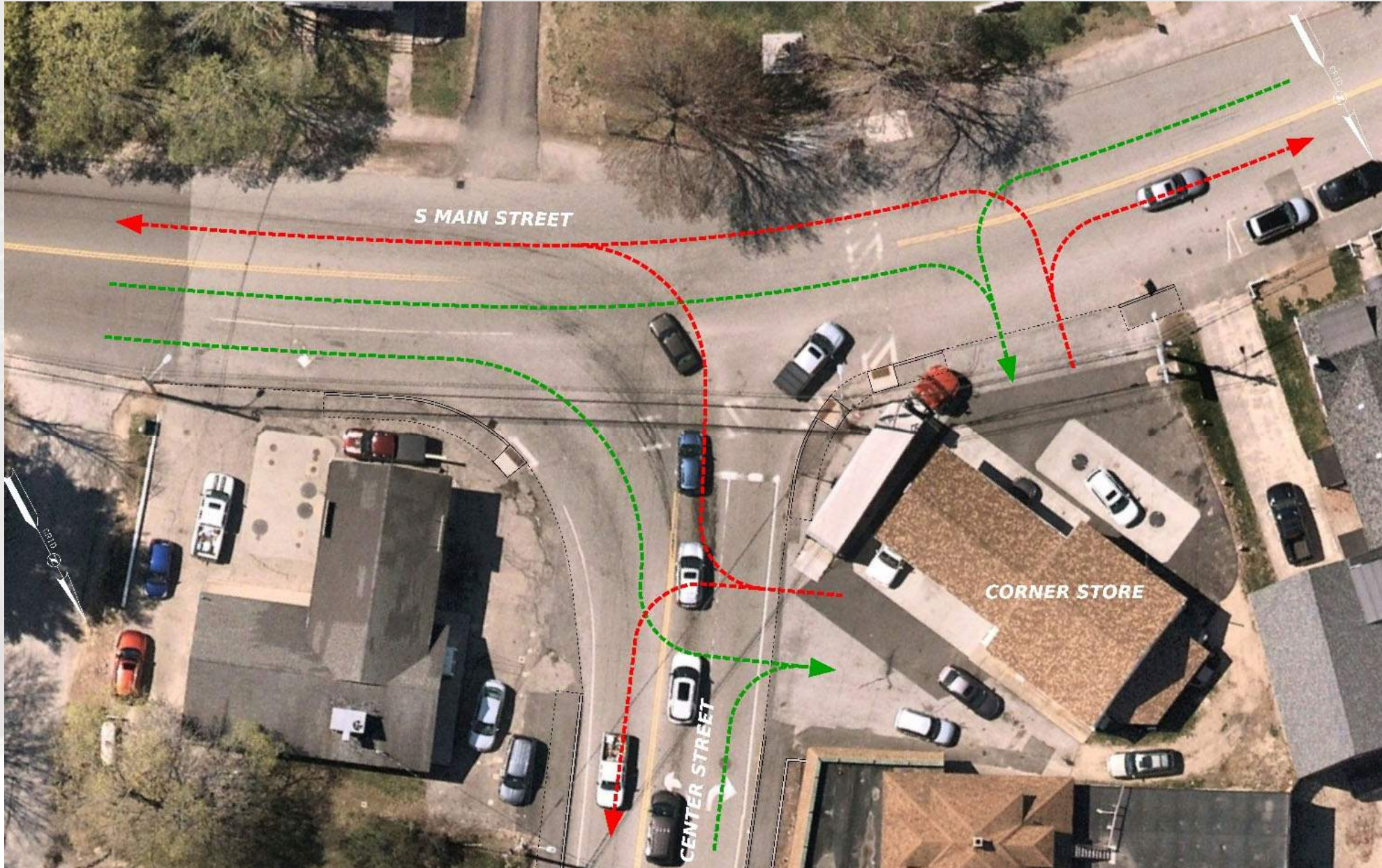
Pickering Corner – Three Sister’s Site – Compact Roundabout

- Full in/out access at both drives
- Additional 780 sf of space in parking area



Alternative Considerations

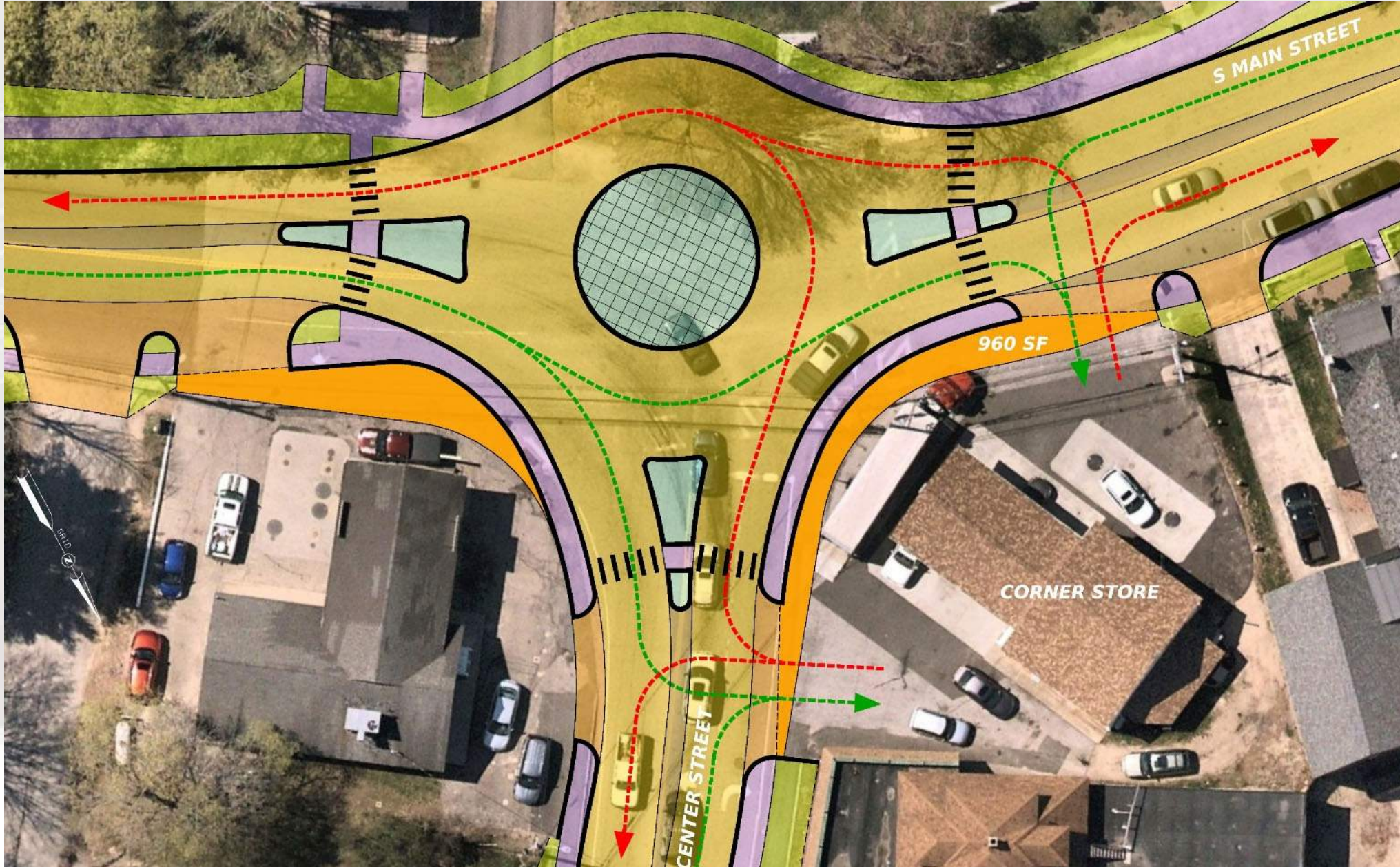
Pickering Corner – Corner Store Site - Existing



- Difficult left turns opposing traffic
- Open, undefined curb cuts
- Vehicles over sidewalk

Alternative Considerations

Pickering Corner – Corner Store Site – Compact Roundabout



- Full in/out access at both drives
- Additional 960 sf of space in parking area

Rating Criteria – Pickering Corner

Criteria:	Pedestrian Safety	Survey Results	Property Impacts & ROW	Traffic Calming	Traffic Operations	Stormwater and Water Quality	Maintain Village Feel	Construction Costs	Overall
No Build	●		●	●	●	●	●	●	●
Minimum Build	●	●	●	●	●	●	●	●	●
Enhanced Striping	●	●	●	●	●	●	●	●	●
Enhanced Striping - All Way Stop	●	●	●	●	●	●	●	●	●
Signalized	●	●	●	●	●	●	●	●	●
Compact Round-about	●	●	●	●	●	●	●	●	●

● - Negative ● - Neutral ● - Positive

Rating Results

Pickering Corner

Compact Roundabout – Highest Rated

- Traffic calming at roundabout
- Provides pedestrian crossings
- Most efficient with traffic capacity
- Improved safety and driver clarity
- Concerns with changes to gas station lots
- Brewster Academy impacts

Enhanced Striping – Acceptable

- Exclusive left turn
- No permanent changes to abutting gas stations
- Minimizes construction disruption
- Increases speeds
- Limits lefts out of Center Street

Minimum Build – Acceptable

- Left turn bypass
- No permanent changes to abutting properties
- Least disruptive construction
- Minimize construction costs

Environmental Considerations



Survey Results - Environmental

Question 2:

As part of the environmental review process, the project team will evaluate potential impacts to natural and cultural resources (historic or archaeological) within the project corridor. What specific concerns do you have regarding resources within the project area?

Question 3:

Please note any specific concerns you have regarding stormwater management, including runoff, puddles, erosion, and water quality issues?

Question 4:

Do you have any other environmental concerns along the corridor?

Common Response Themes:

Drainage

- Stormwater collection
 - Icing
 - Erosion
 - Ponding
- Water Quality

Historic

- Minimize/Avoid Impacts

Landscaping

- Maintain/Enhance

Natural Resources

- Wetland Delineation- Completed for the potential stormwater treatment areas
 - No vernal pools found in project area
- State Protected Species (NHB Check)- record present in project area, but no impacts expected
- Federally Listed Species-
 - NLEB (recently Reclassified as Endangered)
 - Tricolored Bat
 - USFWS has proposed to list as Endangered with a determination expected in fall 2023
 - Monarch Butterfly (Candidate)



Cultural- Above Ground

- National Register Eligible/Listed:
 - Clark House Museum Complex
 - Brewster Hall (Academic Building)
 - Pickering House
 - Huggins Hospital
 - Downtown Wolfeboro Historic District
- Project Area Form:
 - Recommendations for additional survey once alternatives narrowed (certain properties > 50 y.o. with integrity)

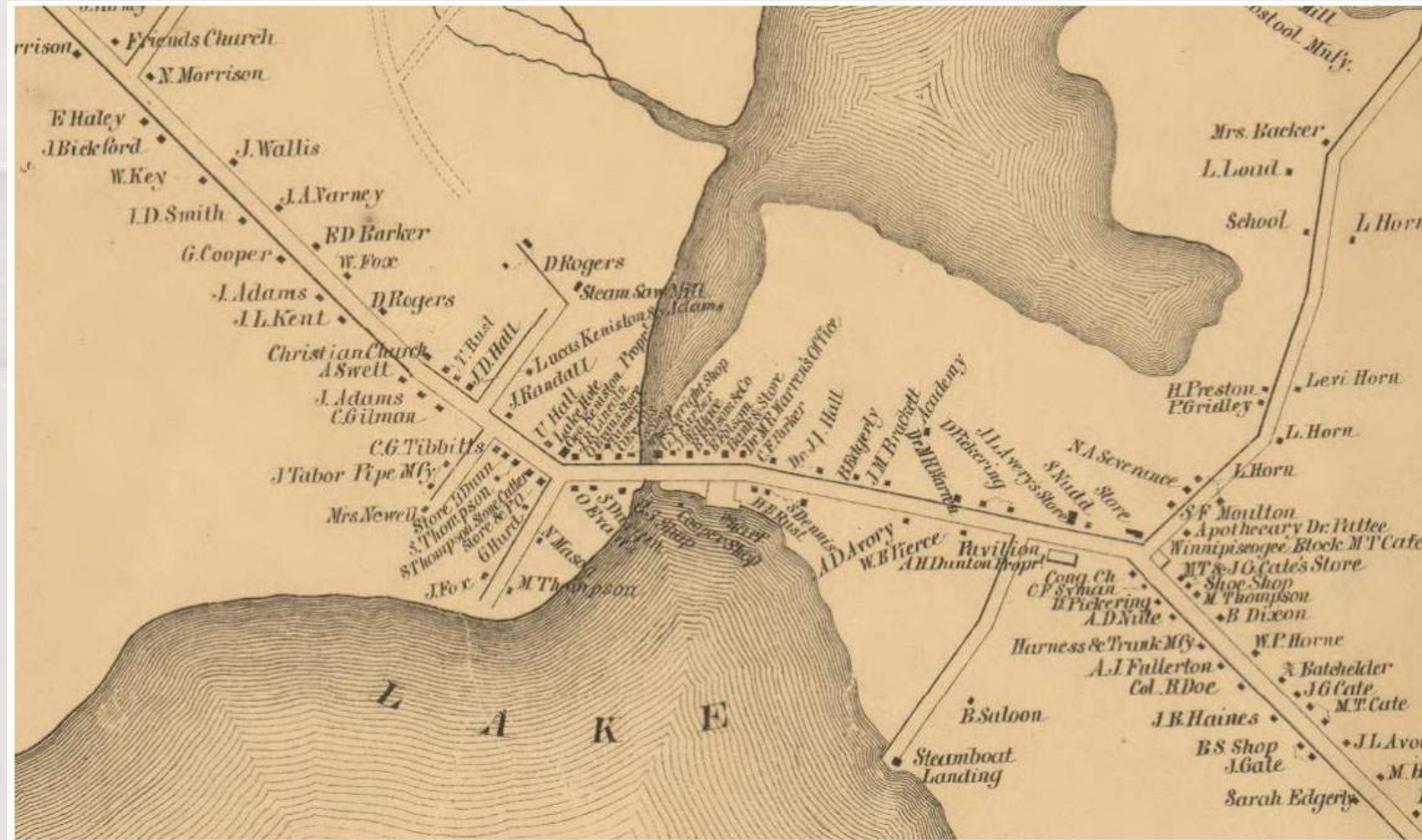


Figure 1
Detail, Map of Smith's Bridge Village, Wolfeboro, 1861

Cultural- Below Ground

- Phase IA Archaeological Sensitivity Assessment- completed
 - 22 Archeologically Sensitive Areas (ASAs) Identified
 - 39 Historic Yard Spaces- back and side yards of historic structures
- Phase IB Intensive Investigation- once area of potential impacts is set
 - Recommended within any portions of ASAs or Historic Yard Spaces where project proposes ground disturbance



Section of the Chester Price 1967 map of Historic Indian Trails showing the general location of the NH Route 28 Improvement Project (29615), Wolfeboro, Carroll County, New Hampshire. Note NH Route 28 generally corresponds to an Indigenous trail.

National Historic Preservation Act Section 106 – Consulting Parties

Interested persons or organizations may request **Consulting Party** status from FHWA:

Jamie Sikora
Environmental Program Manager
Federal Highway Administration
NH Division Office
53 Pleasant Street, Suite 200
Concord, NH 03301
Jamie.Sikora@fhwa.dot.gov




SECTION 106 CONSULTING PARTY PROCESS IN NEW HAMPSHIRE

In the National Historic Preservation Act (NHPA), Congress established a comprehensive program to preserve the historical and cultural foundations of the Nation as a living part of community life. Section 106 of NHPA is crucial to that program, because it requires consideration of historic preservation in the multitude of Federal actions that take place nationwide and throughout New Hampshire.

Section 106 requires Federal agencies to consider the effects of their actions on historic properties and provide the Advisory Council on Historic Preservation (ACHP) an opportunity to comment on Federal projects prior to implementation.

For more information on how you can become a consulting party contact:

Jamie Sikora
Environmental Program Manager
Federal Highway Administration
NH Division Office
53 Pleasant Street, Suite 200
Concord, NH 03301
Jamie.Sikora@fhwa dot.gov



Throughout Section 106 review, Federal agencies must consider the views of the public.

The New Hampshire Department of Transportation (NHDOT) actively seeks comments through a public participation process.

Most projects include one or more public informational meetings to inform the public and solicit input on the current status of each project as it evolves. Additional input from the general public can be obtained at the Public Hearing.

When cultural resources are located within a project area, NHDOT will ask at public meetings whether or not appropriate institutions and individuals would like to participate as consulting parties. Approved consulting parties also have the opportunity to provide input at regularly scheduled bi-monthly Cultural Resource Agency Coordination Meetings.

Who Are "Consulting Parties"?

The following parties are entitled to actively participate as consulting parties during Section 106 review:

- State Historic Preservation Officers
- Indian tribes
- Local governments
- Historical Societies
- Historical Commissions
- Property owners in the project area

Other individuals and organizations with a demonstrated interest in the project may participate in Section 106 review as consulting parties. "Due to the nature of their legal or economic relation to the undertaking or affected properties, or their concern with the undertaking's effects on historic properties."

The Federal Highway Administration will consider requests and decide who meets the criteria to become a consulting party.

Consulting parties are entitled to share your views, receive and review pertinent information, offer ideas, and consider possible solutions together with the Federal agency and other consulting parties.

Consultation does not mandate a specific outcome. It is the process of seeking consensus about how the effects on historic properties should be handled.



More Information:

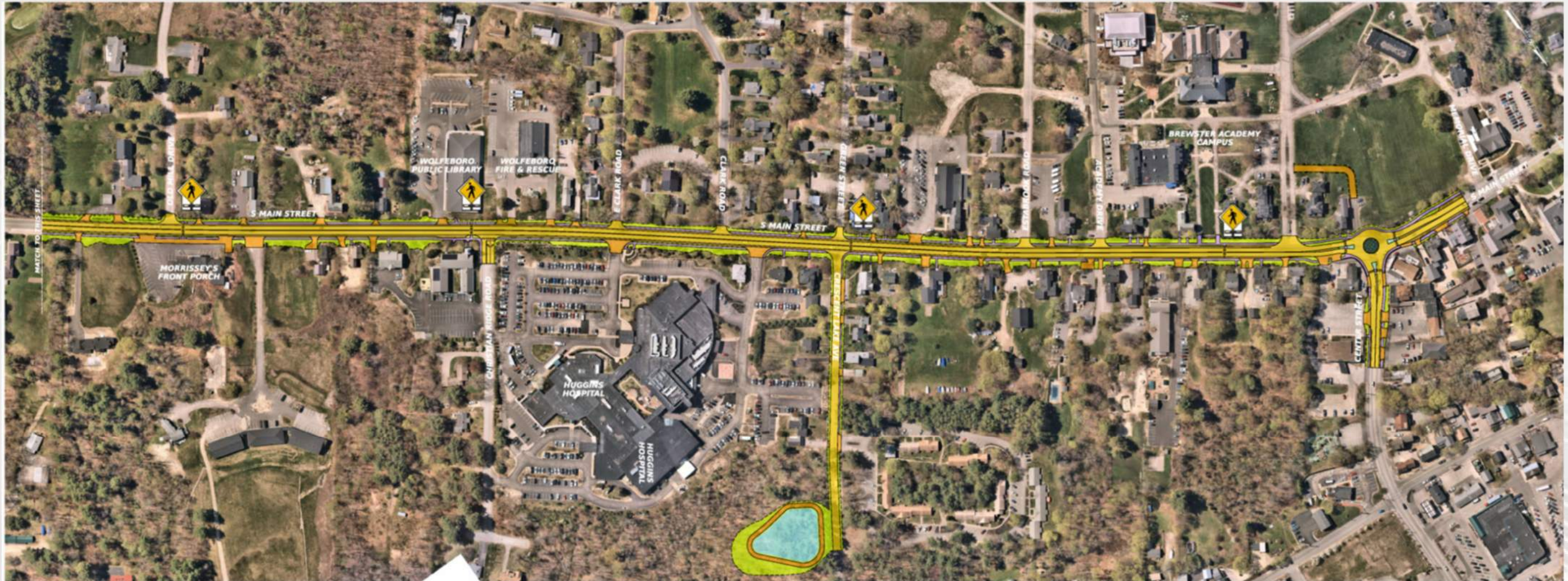
<https://www.nh.gov/dot/org/projectdevelopment/environment/units/program-management/cultural.htm>



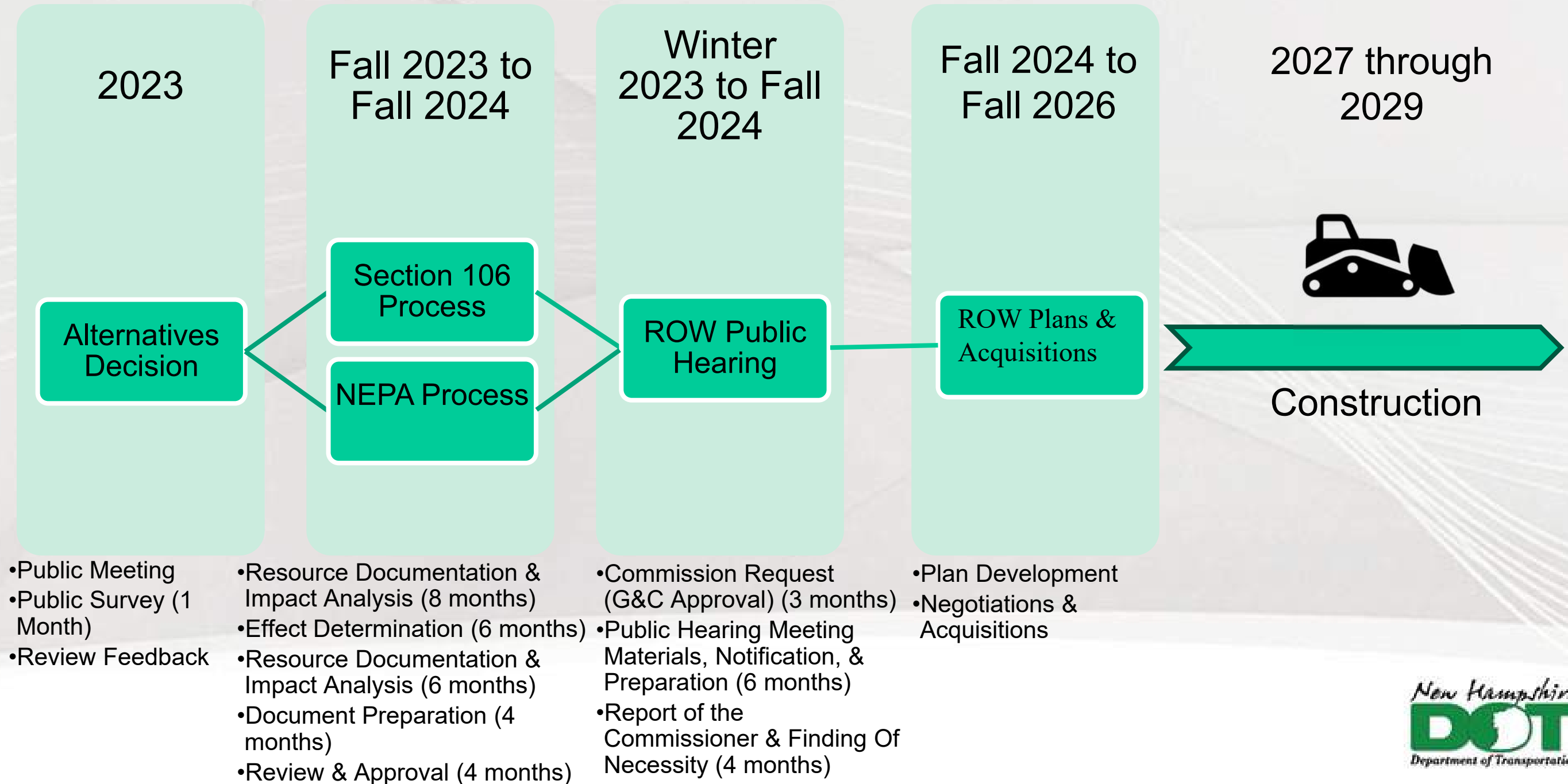
Recommended Alternative – 1 of 2



Recommended Alternative – 2 of 2



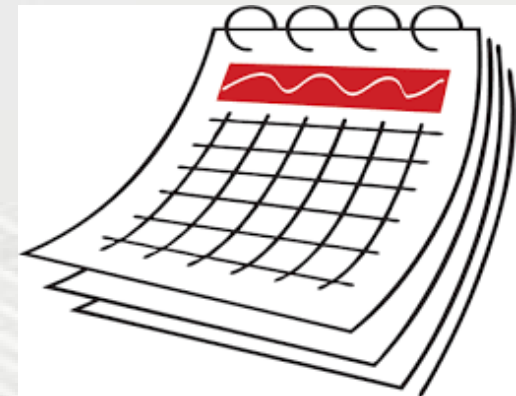
Schedule



Budget & Schedule

Construction Costs

- Construction Estimate: \$14.1 M (2023\$)
- TYP Budget: \$11.1 M (2023\$)
- Current Shortfall: \$ 3.0 M



Schedule

- 2nd Public Meeting: August 24, 2023
- Public Opinion Survey Complete: September 29, 2023
- Cultural Resources Coordination & Section 4(f): September, 2023 – September 2024
- Public Hearing: October, 2024
- Final NEPA & Approvals: August 2024 – December 2024
- ROW Plans & Negotiations: 2+ years
- Construction: Begin 2027

Survey

Closes September 29, 2023

Wolfeboro 29615 South Main Street (NH 28) Improvements

August 24, 2023

Public Informational Meeting Survey

Start now

English (United States)

Wolfeboro 29615 South Main
Street (NH 28) Improvements



Contact Information

Project Information: <https://www.dot.nh.gov/projects-plans-and-programs/project-center/wolfeboro-29615>

Jason Ayotte, PE,
NHDOT Project Manager
603-271-3921
Jason.M.Ayotte@dot.nh.gov

Rebecca Martin,
NHDOT Environmental Coordinator
603-271-6781
Rebecca.A.Martin@dot.nh.gov





- Questions?

Location: NH 28/109 Center Street Looking North