



# *Welcome!*

Improvements on Main Street (Route 113)  
Dunstable, MA  
Project No. 608603

## Design Public Hearing

June 17, 2017

6:30 PM

Dunstable Town Hall, Grand Hall (Main Floor)

# Introductions / Hearing Agenda

## ◆ Project Team

- MassDOT
  - Kim Sloan - Sr. Project Manager
  - Robin Giando - Right-of-Way
- BSC Group, Inc.
  - Eric Carlson, PE - Sr. Project Manager
  - Kellan Lewis, PE - Project Engineer

## ◆ Hearing Agenda

- Opening Remarks
- Design Presentation
- Q&A Session
- Closing Remarks

# Presentation Outline

- ◆ Project History
- ◆ Project Purpose & Goals
- ◆ Proposed Scope of Work
- ◆ Project Area/Limits
- ◆ Existing Conditions & Key Issues
- ◆ Proposed Improvements & Solutions
- ◆ Project Right-of-Way Requirements
- ◆ Construction Phase Expectations
- ◆ Next Steps/Project Schedule

# Project History

- ◆ Project Initiation - May 2015
- ◆ Conceptual Design/Public Outreach - May 2015 thru April 2016
  - Series of 6 Planning “Charrettes”
  - Project Purpose, Need, Goals and Objective Established
- ◆ MassDOT Project Review Committee - May 2016 thru August 2016
  - Determined Eligible for Federal Aide highway funding
  - Programmed for TIP Year: FFY 2021
- ◆ Preliminary Design - August 2016 thru April 2019
  - Prelim. Highway Design Plans
  - Prelim. ROW Plans
  - Utility Coordination
  - Design Exception Process
  - MassDOT Review/Approval

# Project Purpose & Goals

*“To improve safety and accessibility for all of the roadway corridor’s users while protecting, enhancing and reinforcing the corridor’s existing village character, rural landscape, and historic features.”*

- ◆ Improve Vehicular Safety and Travel
- ◆ Improve Bicycle Safety and Accommodation
- ◆ Improve Pedestrian Safety and Accessibility
- ◆ Improve Roadway Infrastructure
- ◆ Mitigate/Enhance Village Character

# Project Area / Limits



# Proposed Scope of Work

- ◆ Pavement Widening and Reconstruction
- ◆ Cement Concrete Sidewalk Construction
- ◆ ADA-Compliant Pedestrian Ramp Construction
- ◆ Granite Curbing/HMA Berm Installations
- ◆ Highway Culvert & Drainage System Improvements
- ◆ Highway Retaining Wall Reconstruction
- ◆ Highway Guard System Installations
- ◆ Pavement Marking & Signage Installations
- ◆ Landscape & Streetscape Amenities

# Existing Conditions & Key Issues



- ◆ Center of Activity
- ◆ Thru Traffic Dominates
- ◆ Poor Connectivity
- ◆ No Accessible Routes

## Town Center Area

# Existing Conditions & Key Issues



- ◆ Substandard Pedestrian Crossings on Main Street
  - Non-Compliant Crosswalks
  - Poorly Located
  - No Ped. Ramps or Sidewalks
  - No Advance Signage

**Town Center Area**

# Existing Conditions & Key Issues



- ◆ Awkward/Confusing Turning Movements

- ◆ Poorly Marked & Signed
- ◆ No Ped. Accommodations

**High Street Intersection**

# Existing Conditions & Key Issues



- ◆ Main Access to Town Hall
- ◆ No Ped. Accommodations

- ◆ Narrow Pavement Width

**Common Street Intersection**

# Existing Conditions & Key Issues



- ◆ Poorly Drained
- ◆ Narrow Shoulders

- ◆ No Ped. Accommodations
- ◆ No Bike Accommodations

**Main Street**

# Existing Conditions & Key Issues



- ◆ Poorly Drained
- ◆ Failing Pavements
- ◆ Narrow Shoulders

- ◆ No Ped. Accommodations
- ◆ No Bike Accommodations

**Main Street**

# Existing Conditions & Key Issues



- ◆ Poorly Drained
- ◆ Failing Pavements
- ◆ Narrow Shoulders

- ◆ No Ped. Accommodations
- ◆ No Bike Accommodations

**Main Street**

# Existing Conditions & Key Issues



◆ Upstream/Inlet View



◆ Downstream/Outlet View

**Highway Culvert**

# Existing Conditions & Key Issues



- ◆ Stone Slab Masonry
- ◆ Kinked Alignment

- ◆ Collapsing Inlet
- ◆ Structurally Deficient and Failing

**Highway Culvert**

# Existing Conditions & Key Issues



- ◆ Stacked Stone Masonry
- ◆ Retains Adjacent Roadway

- ◆ Structurally Deficient and Failing

## Highway Retaining Wall

# Existing Conditions & Key Issues



- ◆ Substandard Intersection  
Sight Distance to the East



- ◆ Restricted by Existing  
Cemetery Retaining Wall

## Westford Street Intersection

# Existing Conditions & Key Issues



**Historic Central Cemetery**

# Existing Conditions & Key Issues



- ◆ Cemented Stone Masonry Walls - Upper and Lower



- ◆ Tombs Accessed through Grass Slope

## Historic Central Cemetery

# Existing Conditions & Key Issues



- ◆ No Separation/Buffer from Travel Way



- ◆ Progressive Damage from Heavy Trucking Vibrations and Snow Plow Impacts

## Historic Central Cemetery

# Existing Conditions & Key Issues



- ◆ No Separation/Buffer from Travel Way



- ◆ Sight Distance Impeded by Utility Pole

**Historic Kendall Tavern**

# Summary - Existing Conditions & Key Issues

- ◆ Substandard Pedestrian & Bicycle Accommodation
- ◆ Intersection Safety Concerns
- ◆ Deteriorating Roadway Infrastructure
  - Roadway Pavements
  - Drainage Systems
  - Highway Guard Rail Systems
  - Pavement Markings & Signage
- ◆ Structurally Deficient Highway Culvert
- ◆ Structurally Deficient Highway Retaining Wall
- ◆ Historic Central Cemetery and Kendall Tavern Encroachment and Safety Concerns

# Proposed Improvements & Solutions



- ◆ Accessible Routes
  - ADA-Compliant
    - ◆ Sidewalks
    - ◆ Crosswalks
    - ◆ Ped. Ramps

## Town Center Area

# Proposed Improvements & Solutions

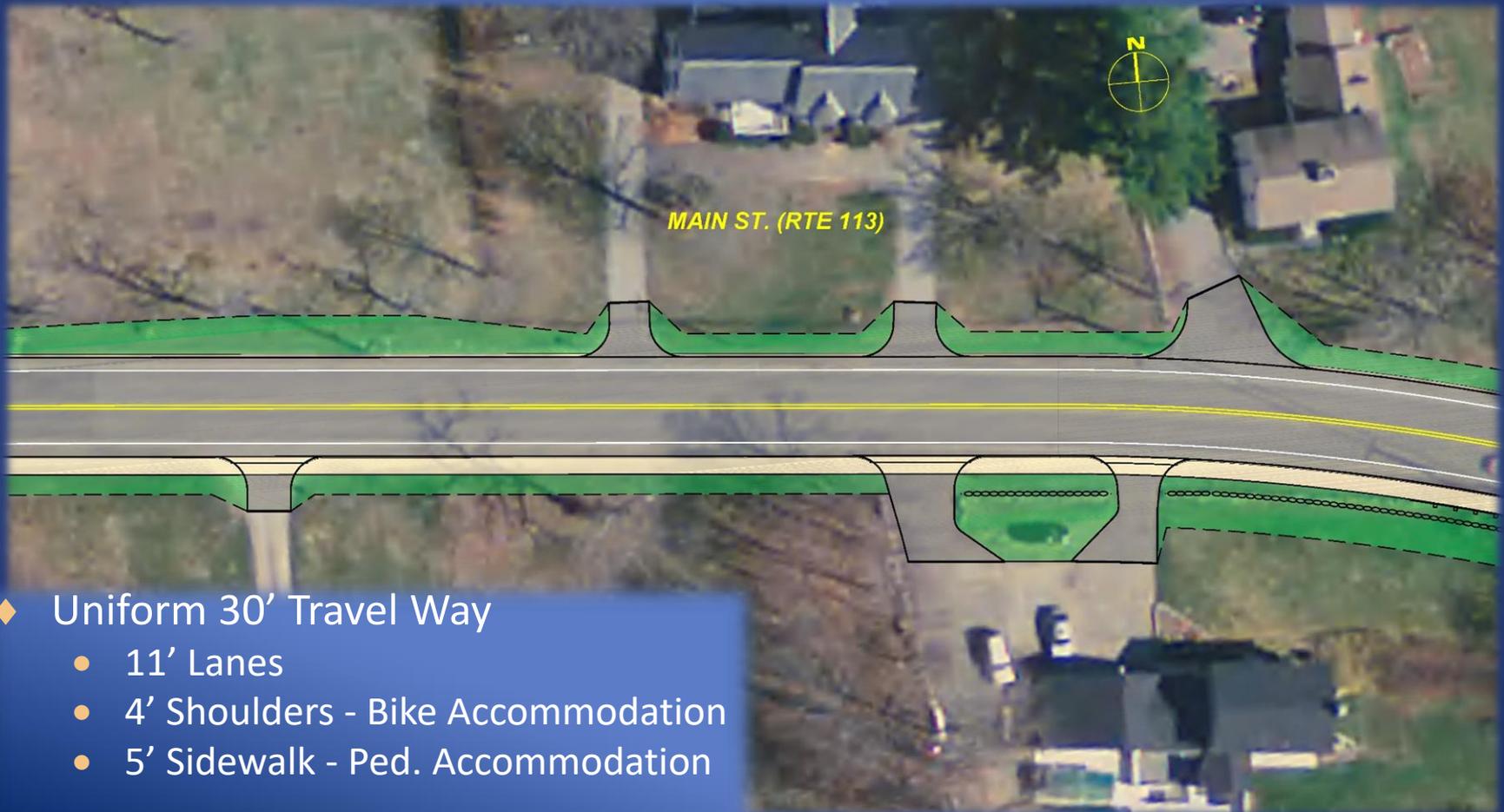
## ◆ Intersection Improvements

- Safety
- Approach
- Definition



**Town Center Area**

# Proposed Improvements & Solutions



- ◆ Uniform 30' Travel Way
  - 11' Lanes
  - 4' Shoulders - Bike Accommodation
  - 5' Sidewalk - Ped. Accommodation

**Main Street**

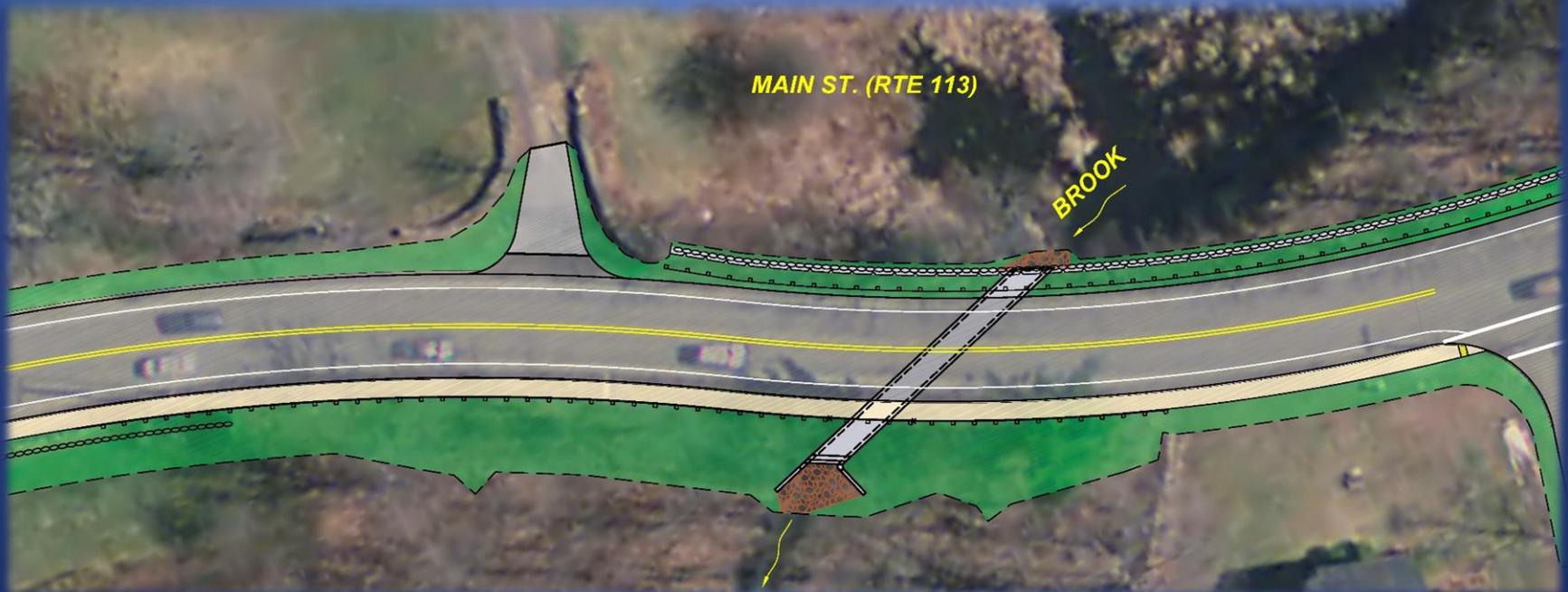
# Proposed Improvements & Solutions

## ◆ Roadway Infrastructure

- Pavement Reconstruction
- Culvert Replacement
- Retaining Wall Reconstruction
- Drainage System Improvements

## ◆ Utility Infrastructure

- Water Main Replacement
- Gas Main Replacement
- Utility Pole Relocations



**Main Street**

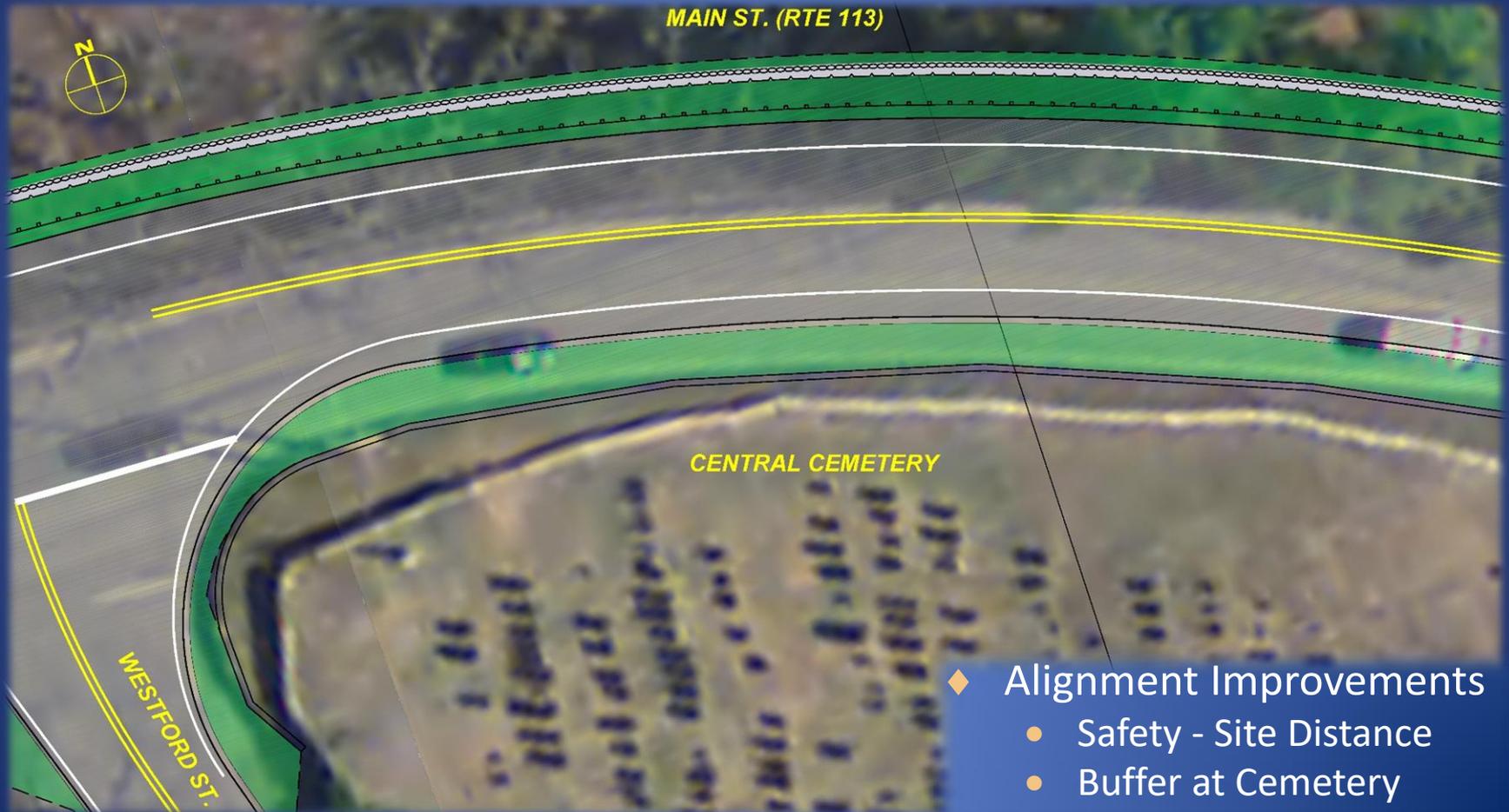
# Proposed Improvements & Solutions



- ◆ Intersection Improvements
  - Safety - Site Distance
  - Approach
  - Definition

**Main Street**

# Proposed Improvements & Solutions



**Main Street**

# Proposed Improvements & Solutions



- ◆ Alignment Improvements
  - Safety - Site Distance
  - Buffer at Cemetery
  - Buffer at Kendall Tavern

**Main Street**

# Proposed Improvements & Solutions

◆ Alignment Improvements

- Safety - Site Distance
- Buffer at Kendall Tavern



Main Street

# Proposed Improvements & Solutions



- ◆ Limit of Work
  - Transition to Meet MassDOT Project No. 606042 (Completed 2013)

**Main Street**

# Project Right-of-Way Requirements

- ◆ A Secure Right-of-Way
  - Temporary Construction Easements
  - Permanent Drainage/Utility Easements
  - Permanent Fee Acquisitions
- ◆ Right-of-Way Certificate

# Construction Phase Expectations

- ◆ Phased Work Zone Construction
- ◆ Two-Way Thru Traffic Maintained at All Times
- ◆ Abutter Access Maintained at All Times
- ◆ Intermittent Restrictions for Certain Work
- ◆ Construction Duration ~ 2 Full Construction Seasons

# Next Steps/Project Schedule

- ◆ Address Comments from Tonight's Hearing
- ◆ Prepare Final Design Documents
  - Final Design Plans/Specifications/Construction Cost Estimates
  - Final Right-of-Way Plans
- ◆ Obtain All Required Permits & Approvals
- ◆ Secure Right-of-Way Certificate
- ◆ Advertise Construction Contract ~ October 2020
- ◆ Issue Construction Contract Notice to Proceed ~ April 2021



*Thank You!*

and

**Q&A**

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