



Complete Streets Prioritization Plan: Improving Safety and Accommodating All Users

ORLEANS, MASSACHUSETTS

BACKGROUND

The Town of Orleans has agreed to join MassDOT's Complete Streets program to provide streets that address the mobility needs of all users – pedestrians, cyclists, drivers, persons with disabilities, and transit riders – making streets safer, sustainable, and more accessible to a wide variety of people. Providing safer, more accessible and comfortable means of travel between home, school, work, recreation and retail destination helps promote a more livable community.

The project team will review all streets in Orleans and collect the needed data. Automatic Traffic Recorder (ATR) counts as well as Turning Movement Counts (TMCs) will be collected. High traffic volumes, particularly in the summer months, has caused congestion and crashes along some of the main routes, such as Route 6.

The study will rely on public participation to better understand how street design can impact the quality of life in Orleans neighborhoods. The Cape Cod Commission will meet with stakeholders and interested members of the public to facilitate the project direction, develop alternatives and a list of priority projects to improve Orleans streets.

STUDY OBJECTIVES

The purpose of this study is to explore transportation improvement alternatives that will reduce conflicts, improve traffic flow and incorporate multi-modal transportation options in Orleans while furthering the creation of vibrant, pedestrian and bicycle oriented mixed-use centers



throughout the town. The safe accommodation of pedestrians and bicycles has been previously identified by the Cape Cod Commission as critical to achieving the goals of the town to create nodes of mixed-use development.

The study aims to establish a preferred roadway redesign which addresses multi-modal transportation improvements, including pedestrian and bicycle connectivity. The study will make recommendations for roadway changes that accommodate projected traffic volumes while accommodating all users of the roadway. This evaluation of preferred alternatives will result in a Prioritization Plan for the Town of Orleans.

TASK 1: PROJECT INITIATION

The Cape Cod Commission will conduct an initial site(s) visit and kickoff meeting for the project with the DPW Director and invited participants.

The Cape Cod Commission will gather information regarding previous ATR counts and TMCs within the study area. The kickoff meeting will also be held to record ideas and input. During this meeting the Cape Cod Commission staff will determine stakeholders, agencies, and organizations to contact, to set strategies for working with the community, and to assist in preparing the public involvement portion of the project.

Deliverables

- Electronic copies of meeting notes

TASK 1A: DATA COLLECTION/MAPPING

The Cape Cod Commission will inventory existing ATR counts and TMCs in Orleans and analyze these patterns. The MassDOT Project Intake Tool (MAPIT) will be used for data collection and mapping. Additionally, existing studies from local and regional planning initiatives will be reviewed. The inventory and analysis will include the following:

- Roadway congestion
- Parking availability



- Existing Right-of-Way (ROW) issues
- Pavement and markings conditions
- Bicycle/pedestrian usage
- Capital investment plans
- Network gap analyses (bicycle, pedestrian & transit)
- Roadway maintenance plans
- Pavement management systems
- Private development projects
- ADA assessments
- Bicycle & pedestrian assessments
- Roadway safety audits

Deliverables

- Inventory of existing roadways and facilities
- Maps of existing roadways and facilities
- Summary of existing plans and related studies

TASK 1B: ON-SITE RECONNAISSANCE

The Cape Cod Commission will visit the existing facilities in Orleans while evaluating and photographing ground-level conditions.

TASK 2: PUBLIC INFORMATIONAL MEETING

The Cape Cod Commission will conduct a public informational meeting. The Commission staff will provide meeting materials, including sign-in sheets, and comment forms. Cape Cod Commission staff representatives at the meeting will include at least two key personnel knowledgeable of the project. The Town of Orleans will secure the locations, dates, times, and advertising for the meetings.

Deliverables

- Cape Cod Commission staff will provide a draft and final meeting summary of all comments received

TASK 2A: OPPORTUNITIES AND CONSTRAINTS



As part of a public kickoff meeting, develop opportunities and constraints throughout Orleans and identify areas for detailed study.

TASK 3: CONCEPTUAL DESIGN

Develop conceptual design plans that demonstrate Complete Streets initiatives. Cape Cod Commission will meet with stakeholders and review data to determine areas of major concern and identify potential solutions for these areas.

Deliverables

- Conceptual design plans

TASK 4: TECHNICAL REVIEW

Peer review conceptual designs by other CCC transportation/planning staff and incorporate revisions for final presentation and public participation meeting.

TASK 5: PUBLIC PARTICIPATION

Cape Cod Commission will hold a public participation meeting to showcase the conceptual design plans and receive feedback from citizens.

Deliverables

- Cape Cod Commission staff will provide a draft and final meeting summary of all comments received

TASK 6: FINAL REPORT AND PRIORITIZATION PLAN

A Final Report and Prioritization Plan will be developed to identify projects (crosswalks, shoulder work, pedestrian signals, sharrows, etc.) that incorporate Complete Streets elements, then each project will be ranked based on their ability to address defined issues/needs. It is



expected that MassDOT review will require at least one revision to the plan. A minimum of 15 potential projects will be included, intended to focus on the following needs:

- Safety: Addresses high crash locations, reduces vehicular speeds, etc.
- ADA accessibility: wheelchair ramps added, etc.
- Pedestrian safety or mobility: New/improved crosswalks, sidewalks/paths, pedestrian signals, etc.
- Bicycle safety or mobility: New bike lanes, wider shoulders, signal accommodation, bicycle parking, etc.
- Transit operations and access: Enhanced stop amenities, queue jump lanes, stop consolidation, etc.
- Vehicular operations
- Freight operations

The Prioritization Plan will include:

- Preparation of preliminary project estimates to assist with programming construction funds
- Preparation of estimated construction duration/schedules to assist with identifying projects that can meet fiscal year deadlines

Deliverables

- Final Report
- Prioritization Plan

BUDGET

Cost to provide services outlined in this scope of work: \$25,000

This project is funded through the MassDOT Complete Streets Program. The Cape Cod Commission will assist in the preparation of state contracting documents. Contracting documents and the final prioritization plan will be submitted to MassDOT by Town staff.



DESIRED TIMELINE 2019-2020

Tasks	Aug. 2019	Sep. 2019	Oct. 2019	Nov. 2019	Dec. 2020	Jan. 2020	Feb. 2020	Mar. 2020	Apr. 2020	May 2020	Jun. 2020	Jul. 2020
Task 1: Project Initiation												
Task 1a: Data Collection/Mapping												
Task 1b: On-Site Reconnaissance												
Task 2: Public Informational Meeting												
Task 2a: Opportunities and Constraints												
Task 3: Conceptual Design(s)												
Task 4: Technical Review												
Task 5: Public Participation												
Task 6: Final Report and Prioritization Plan, MassDOT Review & Revisions as Needed												

CCC STAFF CONTACTS

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