

Kittery Route 1 Corridor Feasibility Study Scope of Services

Introduction

The Town of Kittery in collaboration with the Maine Department of Transportation (MaineDOT) and KACTS is undertaking a Route 1 corridor study. Route 1 in Kittery is a Highway Corridor Priority 2. The study's purpose is as follows:

- (1) **Better align the transportation corridor along Route 1 Mall Road with desired redevelopment: a mixed-use residential village between Ox Point Drive and Haley Road.** This will include but not be limited to a road diet analysis, intersection improvements and active transportation recommendations and
- (2) Identify short-term safety improvements associated with pedestrian crossing needs north of Haley Road and evaluate long-term corridor conceptual improvements such alternatives that provide safe access as well as bicycle and pedestrian accommodations north of Haley Road. This will include but not be limited to a center turn lane and sidewalk(s).

This study will identify transportation improvements to improve safety, compliment future land use goals and better accommodate access for all transportation users. The study will not only consider highway safety and mobility but also emphasize improvements for active transportation and transit.

Study Area

Route 1 in Kittery extending from Ox Point Drive to York Town Line. The section of Route 1 between Ox Point Drive and Haley Road is anticipated to be the primary focus of modeling different transportation alternatives and conceptual renderings of future land use. The section of Route 1 between Haley Road and York Town Line is anticipated to show concepts of potential highway safety and accessibility improvements.

Scope of Work

The feasibility study will identify deficiencies for all transportation modes utilizing Route 1 in the study area and recommend an improvement plan that could be phased over several years. It will collect existing data and conduct an analysis of potential strategies to improve safety, accessibility along the corridor without substantial widening of Route 1 such as adding through lanes. MaineDOT will provide some recent traffic information on the corridor including crash history and turning movement counts. **The study will also evaluate local land use plans and policies to provide up to five conceptual renderings of Route 1 adjacent land use in the future.** Study recommendations are expected to consider but not be limited to changes to lane configurations such as a Road Diet, intersection improvements and/or traffic signal modifications, access management, traffic demand management, transit and active transportation.

Task 1 – Project Kick-Off Meeting

The consultant team will meet with the study team including representatives from the Town of Kittery and MaineDOT under a collaborative planning process as follows:

- **Identify and understand local issues**
- Identify and understand relevant state and federal regulatory requirements

- Finalize scope of work
- Identify previous related study efforts and available data
- Identify traffic data that will need to be collected
- Identify baseline environmental data that will need to be collected
- Identify existing and future Active Transportation uses and concerns
- Identify existing transit on the corridor and discuss future opportunities
- Prepare preliminary study purpose and need

Task 2 – Review Available Data

The consultant team will review available information provided by the Town of Kittery and MaineDOT. These will include, but not be limited to, the following:

- Kittery Comprehensive Plan: <https://www.kitteryme.gov/kittery-2015-2025-comprehensive-plan>
- Kittery Pedestrian & Bicycle Master Plan: <https://www.kitteryme.gov/projects/news/bicycle-and-pedestrian-master-plan>
- Kittery Flood Resiliency Summary: <https://www.kitteryme.gov/climate-adaptation-committee/files/flood-resiliency-checklist-summary-and-recommendation-report>
- Kittery CIP: https://www.kitteryme.gov/sites/g/files/vyhlif3316/f/uploads/fy23_cip_book_final.pdf
- Recent MaineDOT traffic counts, including counts at least at signalized intersections scheduled summer 2022 and crash summaries for the Study Area
- Available land use and economic development information that could affect transportation in the study area provided by the town of Kittery.
- Other relevant reports, studies, and policies
- Collect additional traffic data as required

Task 3 – Assessment of Current Conditions

The consultant team will evaluate the existing and recent historic performance of traffic in the study area based on traditional forecasting and growth models. The assessment will include but not be limited to:

- Analysis of current traffic conditions of the study area. The analysis will include traffic patterns, capacity, speeds, and crash experience
- Identification of bicycle and pedestrian deficiencies in the study area.
- Identification of transportation vulnerable users and equity concerns.
- Review analyses with team members and discuss possible recommendations and additional alternatives to be considered.
- Review Maine’s Climate Council Plan for any implications regarding Route 1 in Kittery.

Task 4 Assessment of Future Scenarios

The consultant team will evaluate future traffic volume based on traditional growth forecasts and taking into account known development and land use changes underway. It will include:

- A 2045 forecast of traffic volumes in the study area, based on historical traffic data and available MaineDOT traffic forecasts. Forecasts should show differences as applicable if the study area continues to primarily function as retail development and changes in traffic should the area predominantly become mixed-used residential.
- Analysis of future traffic volume conditions of the study area. Analysis of alternatives under future existing conditions to prevent or minimize loss of service. The analysis will include predicted change in mobility and crash rates.
- Analysis of existing and recommended access management changes
- Review of possible changes to the lane configurations including a Road Diet
- Review of possible traffic signal modifications and implementation of traffic demand management
- Analysis of impacts to bicycle and pedestrian facilities
- Analysis of transit opportunities
- Analysis of Smart city concepts
- Discussion of implications for Route 1 in Kittery related to climate change
- Review analyses with team members and discuss possible recommendations and additional alternatives to be considered

Task 5 Develop Preliminary Recommendations

Based on the analysis of alternatives determined in Task 4, the consultants will develop recommendations based on effectiveness of meeting the study area transportation needs. These recommendations may include low-cost improvements, a recommended roadway cross-section or cross-sections to improve the consistency of the study area corridor for its users, and other roadside or off-road improvement recommendations.

- Develop recommendations for all transportation modes based on effectiveness and viability from a regulatory perspective. Measurements for effectiveness will include benefits to active transportation, safety, mobility, cost and practicality of implementation, and ability to meet the purpose and need. While this study may include features such as traffic calming, road diet, etc., that reduce mobility, the recommendations should still discuss Level of Service and attempt to maintain acceptable LOS service levels.
- The recommendations will include a discussion of the potential and degree of effort associated with environmental analysis, secondary, cumulative impacts, etc., including anticipated future costs of remaining planning, design and construction phases.
- Develop cost estimates for recommendations (including construction and potential right-of-way costs).
- Develop a recommendation for phasing of implementation.
- Develop a draft report containing the analysis of existing and future conditions, alternatives analysis, and recommendations, including a matrix summarizing recommendations along with an appendix of traffic and crash data.
- Develop basic conceptual renderings of recommended alternatives on aerial photography.

- The recommendations will also show up to five conceptual renderings of Route 1 adjacent land use in the future as a mixed-use residential village.

Task 6 Public and Agency Feedback

The effort will include at least four study team meetings including Task 1 with representatives from the Town of Kittery, SMPDC and MaineDOT. At least one study team meeting will include up to a day long site visit and safety audit. The study is also anticipated to include a total of three public meetings which may be standalone study public meetings or portions of Town Council meetings.

Task 7 – Draft and Final Report

The Tasks discussed above will be combined into a draft and final narrative report documenting the project. At a minimum the report will include an executive summary, narrative of the study process, a description of the various alternatives considered, documentation of the evaluation criteria, and illustrations of conceptual designs and cross sections for the preferred alternative. The final report will incorporate all applicable technical memorandums.