

Route 80 Corridor Transportation Planning Study

Joint Transportation Committee Meeting Item 7-C

October 2, 2025

Old Colony Metropolitan Planning Organization
FFY 2026 UPWP Task 3600



OLD COLONY
PLANNING COUNCIL

Route 80 Corridor Transportation Planning Study

Why:

1. Identified in High-priority Corridor Screening Assessment
2. Agreed and supported by the Town of Kingston and Plymouth for a Transportation Study
3. Programed under FFY 2026 UPWP #3600

Scope and Conditions:

Route 80 in the Towns of Kingston and Plymouth from Route 3A in Kingston to Carver Road in Plymouth

- Kingston: 5 mile
- Plymouth: 1.5 mile

Federal Road Functional Classification: Minor Arterial

Urban Type: Large urban area

Jurisdiction:

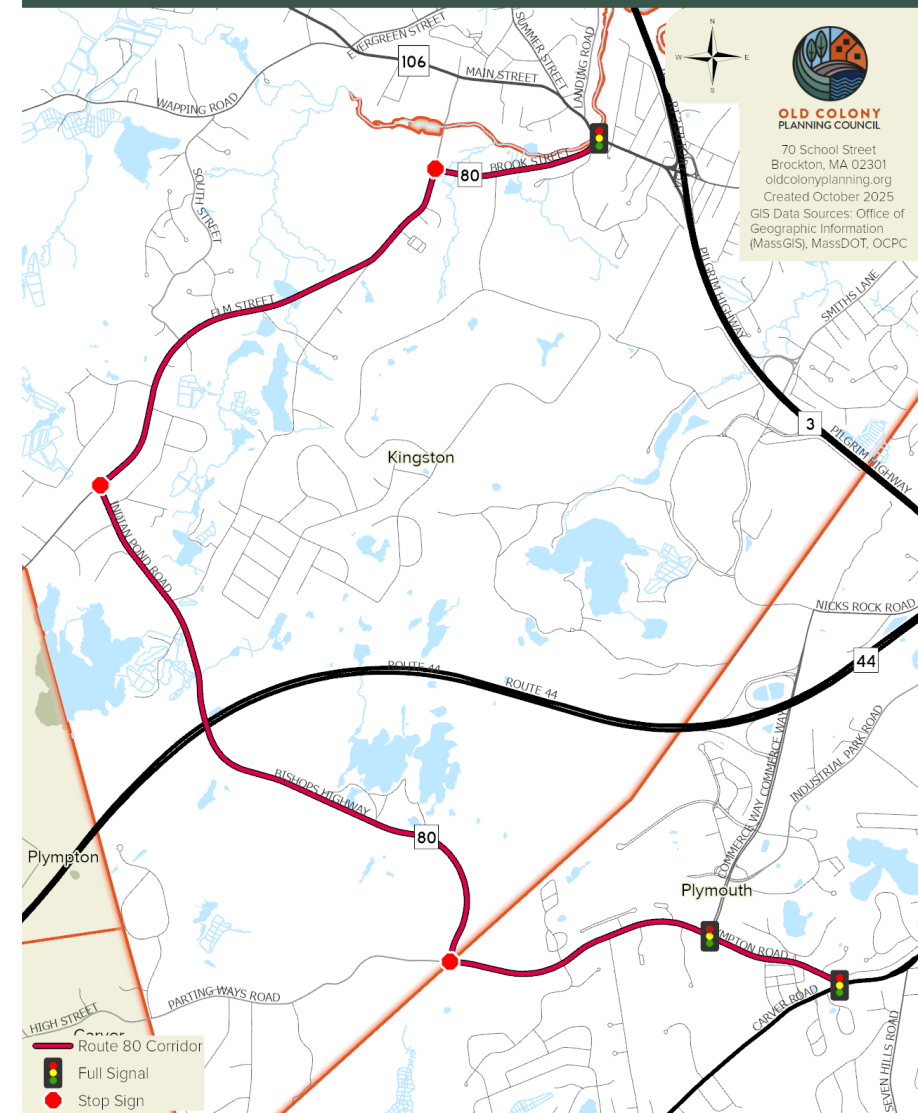
- Town of Kingston: 2.5 Miles
- MassDOT/State: 4 Miles

Speed Limit: 30MPH – 45MPH

Volume: range from 2,050 – 6,909 per day (Adjusted to 2018)

APPROXIMATELY
6.5 MILES
in centerline distance

Route 80 Corridor Study Area



PLANNING STUDY IN A NUTSHELL

FIRST HAND DATA AND INFORMATION COLLECTION



Field photos & recordings

available for problematic locations

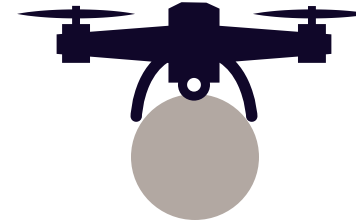


Field operation & safety observations

at all major intersections

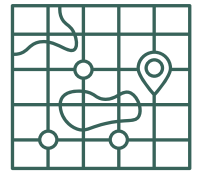


Dash Cam recorded
from both directions for
entire corridor



Locations

Drone Recording
Analysis deployed



GIS Mapping

TRAFFIC ANALYSIS



Capacity Analysis

- Synchro analysis
- AM and PM peak hour
- RITIS Data



Collision Analysis

- IMPACT Data
- Police Collision Reports



Future Analysis and Volume Adjustments

- Seasonal factors
- Annual growth rate by TDM and historical traffic count
- Added trips from approved planned, proposed development projects



Corridor Study Key Steps

Documentation of existing conditions

- ATR, TMC, intersection and corridor operation
- Data platforms research and field audits

Short-term and long-term improvements developments

- Multimodal modeling, simulation
- Evaluation of improvement alternatives

Prepare conclusions and recommendations

- Community and MassDOT/District 5 coordination
- Current and future programs, and fundings opportunities

Public and communities outreach

- Survey Monkey
- Meetings (Communities, stakeholders, MassDOT, regional partners and the public)



Turning Movement Counts Locations (Completed in September 2025)

Turning Movement Count Locations:

Location	Control	Town
1. Main Street (Route 3A) at Brook Street (Route 80)	Signal	Kingston
2. Brook Street (Route 80) at Second Brook Street	Stop Sign	Kingston
3. Brook Street (Route 80) at Country Club Way	Stop Sign	Kingston
4. Brook Street (Route 80) at Elm Street	Stop Sign	Kingston
5. Elm Street (Route 80) at Indian Pond Road	Stop Sign	Kingston
6. Elm Street (Route 80) at Millgate Road	Stop Sign	Kingston
7. Elm Street (Route 80) at South Street	Stop Sign	Kingston
8. Elm Street (Route 80) at Route 80 State Highway Bishops Highway at Elm Street	Stop Sign	Kingston
9. Bishops Highway State Highway (Route 80) at Indian Pond Road	Stop Sign	Kingston
10. Bishop Highway State Highway (Route 80) at Parting Ways Road	Stop Sign	Kingston/Plymouth line
11. Plympton Road (Route 80) at Kristin Road/Willow Bend Blvd.	Stop Sign	Plymouth
12. Plympton Road at Charlotte Drive	Stop Sign	Plymouth
13. Plympton Road (Route 80) at Commerce Way	Signal	Plymouth
14. Plympton Road (Route 80) at Carver Road	Signal	Plymouth

Automatic Traffic Recorder Counts Locations (Scheduled for October 2025)

	Location	Town
1	Brook Street (Route 80) east of Country Club Way	Kingston
2	Elm Street (Route 80) east of Indian Pond Road	Kingston
3	Elm Street (Route 80) east of South Street	Kingston
4	Elm Street west of Route 80 State Highway (Indian Pond Road-Bishop Highway)	Kingston
5	Route 80 State Highway (Indian Pond Road-Bishop Highway) east of Elm Street (Route 80)	Kingston
6	Bishops Highway (Route 80) south of Indian Pond Road	Kingston
7	Bishops Highway (Route 80) north of Parting Ways Road	Kingston
8	Parting Ways Road west of Bishops Highway (Route 80)	Kingston
9	Plympton Road (Route 80) east of Bishops Highway (Route 80)	Plymouth
10	Plympton Road (Route 80) east of Commerce Way	Plymouth
11	Plympton Road (Route 80) east of Carver Road	Plymouth

Proposed Corridor Study Project Development Timeline

Tasks	Steps	Oct-25	Nov-25	Dec-26	Jan-26	Feb-26	Mar-26	Apr-26	May-26	Jun-26	Jul-26	Aug-26	Sep-26
Project Initiation	Initial interview with community, MassDOT and regional partners												
	Develop Scope of Work, plans for the studies												
	Review previous studies, plans and documents												
Public and Community Engagement	Formation of OCPC Study Team and Community Work Group												
	Initial stakeholders interview meeting												
	General public survey												
	Community, stakeholders meetings												
	JTC, or MPO project update meetings												
	Public Meetings												
Data Collection	ATR count, TMC count												
	Collect and review speed regulation, signal permit and timing plans												
	Road inventory studies, on-line and field audit												
	Multi-modal planning data collection												
	Environmental data collection												
Mapping and Data Analysis	Develop GIS base and operational data maps												
	Capacity analysis (LOS, delay and air quality)												
	Safety analysis (collision cause and countermeasures)												
	Multi-modal planning analysis (bicycling, walking, transit, etc.)												
Existing Condition Assessment	Intersection operational evaluation												
	Corridor planning and operational evaluation												
	Transportation safe system analysis												
	Climate change and environmental review												
Future Projection and Assessment	Estimate background traffic growth and conditions												
	Compile site specific land use and road development plans												
	Identify future deficiencies												
Plan Design Alternatives Assessment	Alternatives analysis and comparison												
	Development recommendations												
Draft Report	Circulate draft report for review												
	Solicit comments and suggestions for updating draft report												
	Provide project development coordination in various funding resources												
Final Report	Circulate the final report												
	Final Document and archive												

*The Project Development Timeline provides estimated time for completion of each task. Use as a reference.





OLD COLONY
PLANNING COUNCIL

www.oldcolonyplanning.org

QUESTIONS / COMMENTS?

William McNulty, PTP

Principal Transportation Planner
Study Project Manager
E-mail Address: wmcnulty@ocpcrpa.org

GUOQIANG LI, PTP, RSP1

Principal Transportation Planner
Study Project Manager
E-mail Address: gli@ocpcrpa.org