ROUTE 80 PLYMOUTH Corridor Study

Public Meeting

Draft Findings and Recommendations

May 21, 2026

OLD COLONY PLANNING COUNCIL

Old Colony Metropolitan Planning Organization (MPO)

FFY 2026 UPWP Task 3600

WHO WE ARE

OCPC serves as the planning staff for the Old Colony Metropolitan Planning Organization (MPO).

Serves the Old Colony region and is advised by the Join Transportation Committee (JTC).

Responsible for prioritizing transportation initiatives and producing the Transportation Impovement Plan (TIP).

OLD COLONY
METROPOLITAN
PLANNING ORGANIZATION

WHY THIS STUDY?

Assess traffic conditions and transportation concerns and needs on the Route 80 in Kingston and Plymouth.

Funded through the FFY 2026 Unified Planning Work Program (UPWP) under contract with the Massachusetts Department of Transportation (MassDOT).
Project # 3600

AGENDA

Introduction

Route 80 Corridor Study

Overview

Process and Methodologies

- Public outreach
- Agencies coordination
- Data Collection and Technical Analysis
- Draft report and documentation

Preliminary Findings and Suggestions

- Key Intersections
- Corridor Wide

Next steps

Q&A

SCOPE & PURPOSE

ROUTE 80 CORRIDOR

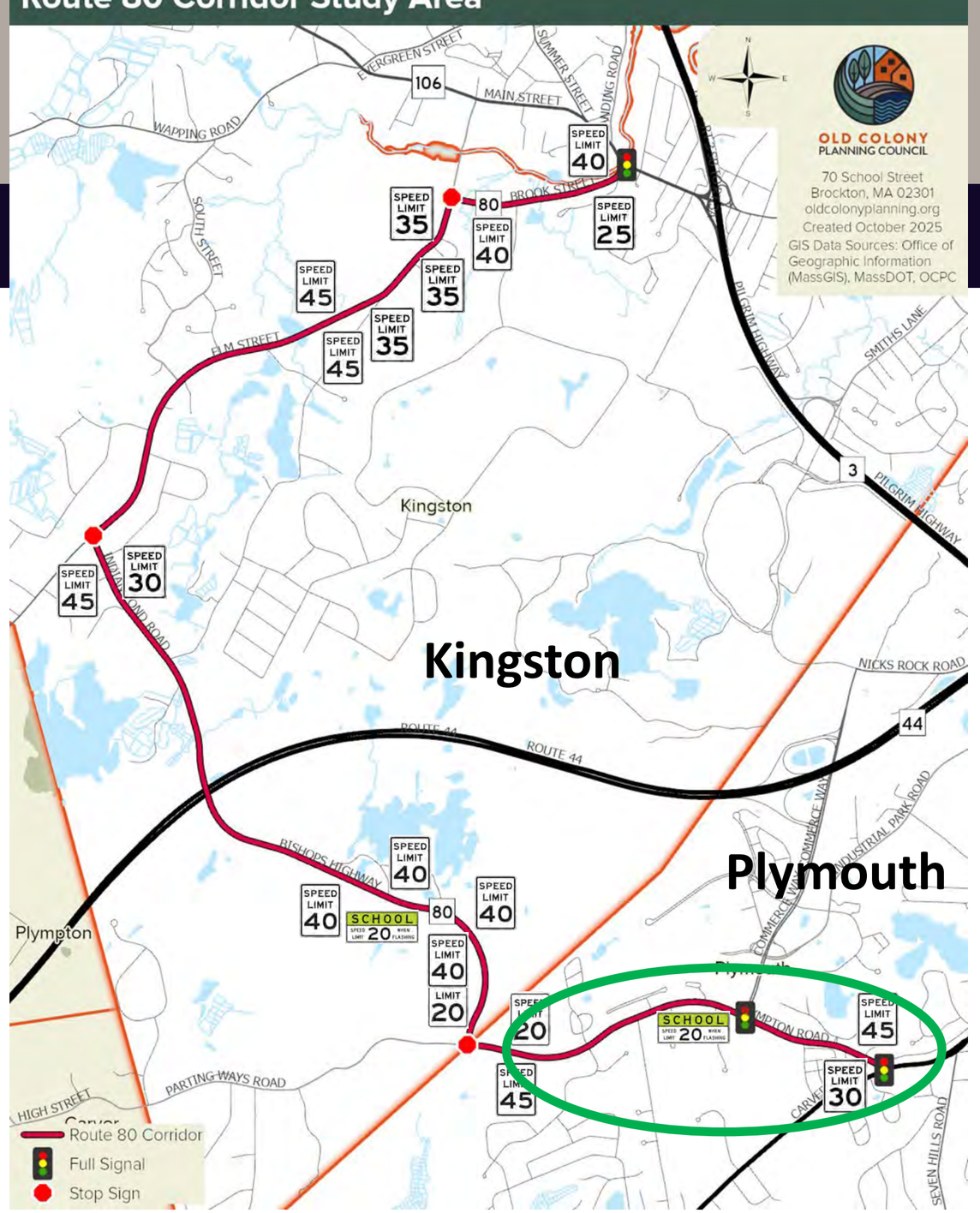
JURISDICTION

APPROXIMATELY
6.5 MILES

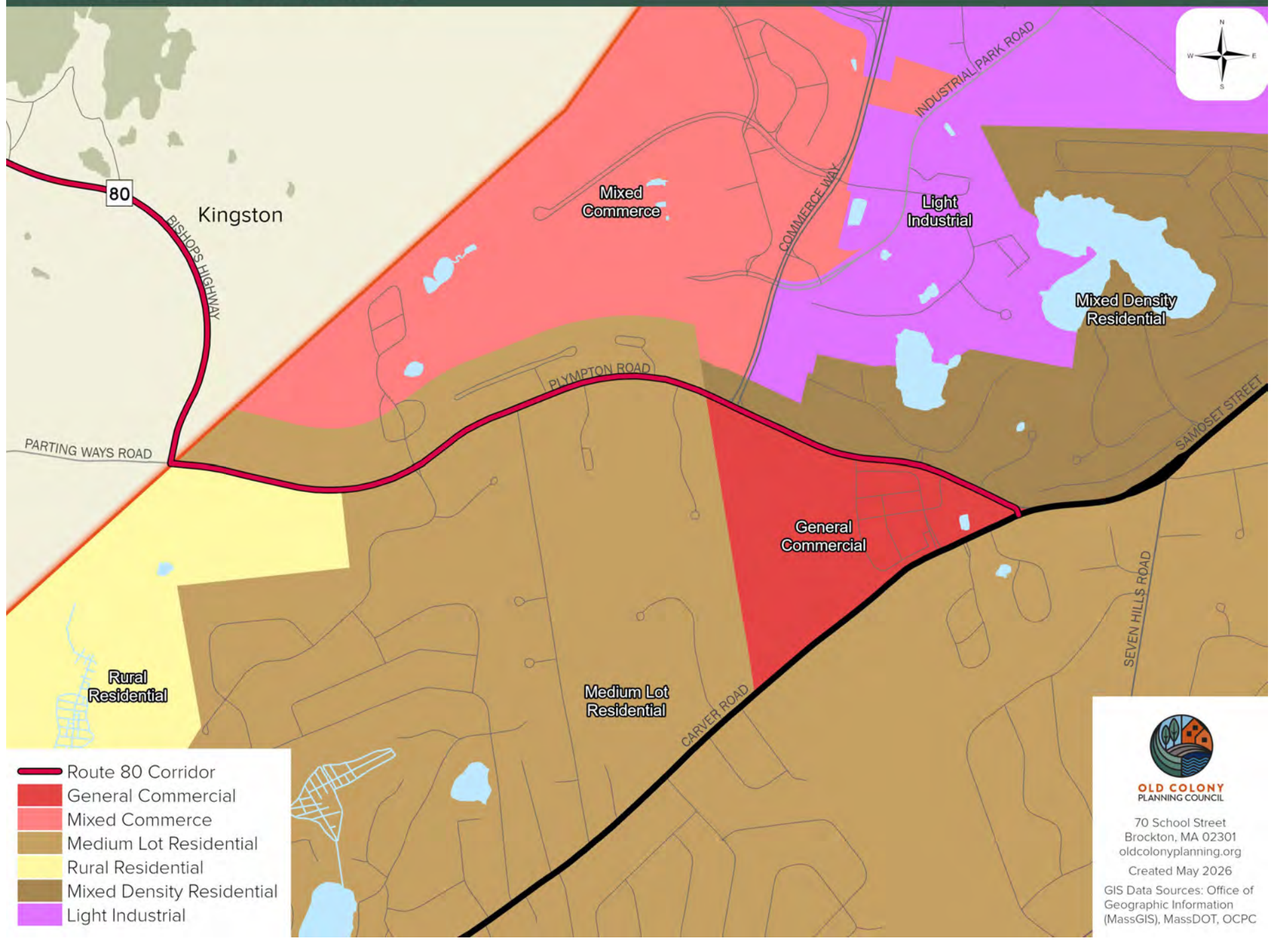
- **Kingston** : 5 miles
- **Plymouth:** 1.5miles
- **2.5 Miles** under Town of Kingston
- **4 Miles** MassDOT owned (*South*)
- **3** traffic signals (Kingston: 1; Plymouth: 2)
- **Multiple** Major stopped control intersections

ROAD OPERATION

- Urban minor arterial
- 2 lane road
- Posted Speed Limit:
  - School Zone of 20 MPH, 30 MPH, 45 MPH (*including School Zone, Special Speed Regulation*)



Route 80 Corridor Study Zoning

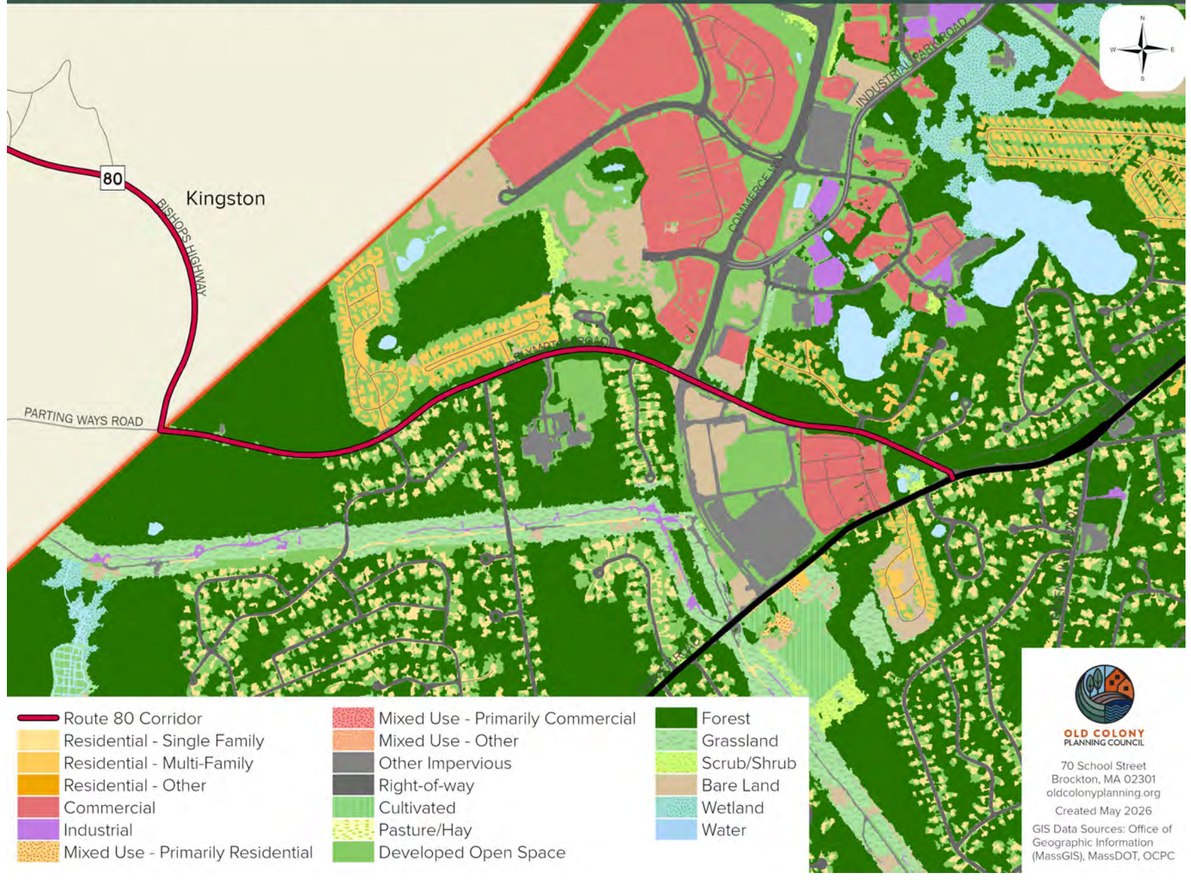


OLD COLONY PLANNING COUNCIL
70 School Street
Brockton, MA 02301
oldcolonyplanning.org

Created May 2026

GIS Data Sources: Office of Geographic Information (MassGIS), MassDOT, OCPC

Route 80 Corridor Study Land Use



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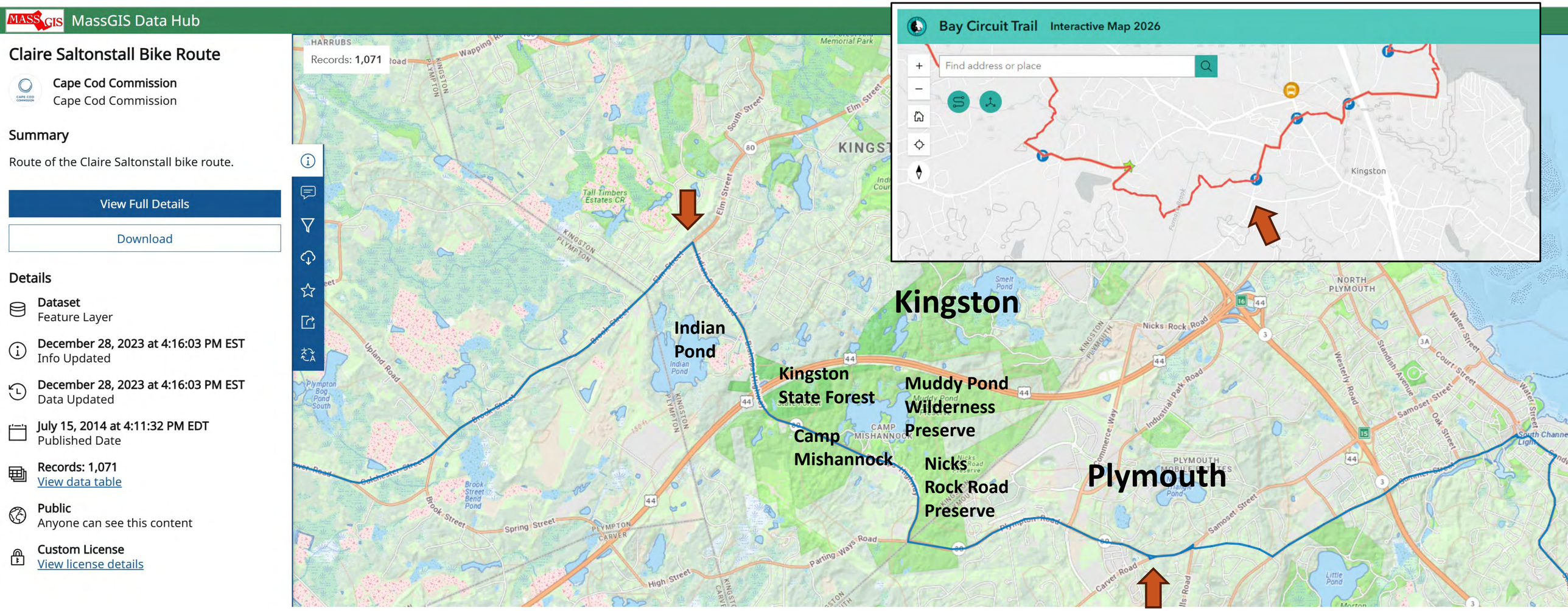
Claire Saltonstall Bike Route and Bay Circuit Trail



Volume and Speed

Turning Movement Counts Locations (Completed in September 2025)

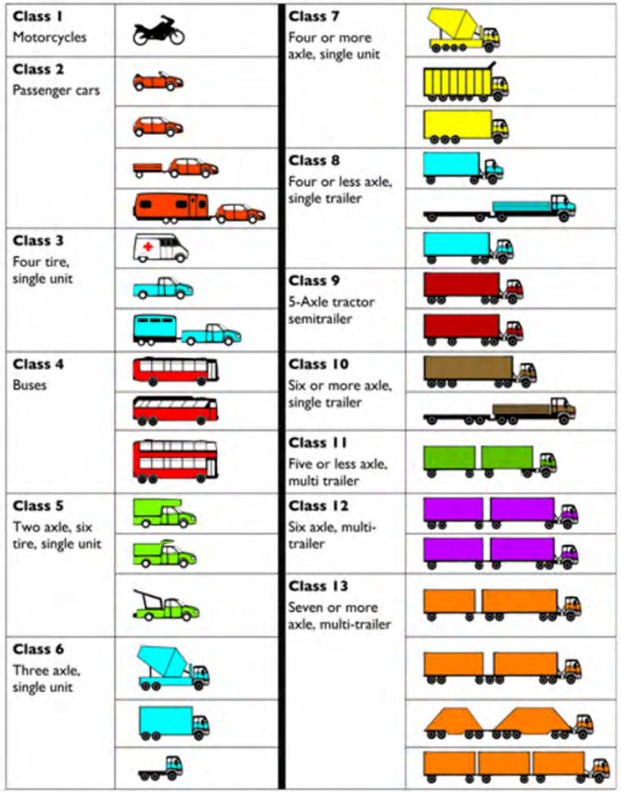
			Daily Volume*		85%tile	
	Location	Town	Weekday Peak	Weekend	Weekday	Weekend
1	Brook Street (Route 80) east of Country Club Way	Kingston	5531	4952	43	43
2	Elm Street (Route 80) east of Indian Pond Road	Kingston	4501	3855	44	45
3	Elm Street (Route 80) east of South Street	Kingston	4319	3950	43	43
4	Elm Street west of Route 80 State Highway (Indian Pond Road)	Kingston	3252	3132	47	48
5	Indian Pond Rd South of Elm St	Kingston	2941	2411	42	43
6	Bishops Highway (Route 80) south of Indian Pond Road	Kingston	3185	2641	50	51
7	Bishops Highway (Route 80) north of Parting Ways Road	Kingston	3652	2665	41	42
8	Patingways West of Bishops Hwy	Kingston	2845	2664	42	42
9	Plympton (Route 80) East of Bishops Hwy	Plymouth	5570	4929	43	44
10	Plympton Road (Route 80) west of Commerce Way	Plymouth	7072	6350	45	46
11	Plympton Road (Route 80) west of Carver Road	Plymouth	11730	11059	43	44
*	Data collected in the week of September 15, Wednesday, Thursday, Weekend Saturday and Sunday					
**	Including school buses(FHWA class 4+)					

Multi-modal Traffic Volume

				AM Peak (two hour)				PM Peak (four hour)			
	Location*	Type	Community	Car	Truck	Bicycle	Pedestrian	Car	Truck	Bicycle	Pedestrian
1	Main Street (Route 3A) at Brook Street (Route 80)	Signal	Kingston	3217	103	5	2	7461	105	14	0
2	Brook Street (Route 80) at Second Brook Street	Stop Sign	Kingston	1028	32	0	0	2199	35	4	0
3	Brook Street (Route 80) at Country Club Way	Stop Sign	Kingston	927	25	0	0	2025	26	5	0
4	Brook Street (Route 80) at Elm Street	Stop Sign	Kingston	992	27	0	0	2333	30	1	2
5	Elm Street (Route 80) at Indian Pond Road	Stop Sign	Kingston	805	19	0	0	1912	31	2	1
6	Elm Street (Route 80) at Millgate Road	Stop Sign	Kingston	653	17	0	0	1535	21	1	0
7	Elm Street (Route 80 at South Street	Stop Sign	Kingston	816	20	0	0	1937	43	1	0
8	Elm St at Indian Pond Rd	Stop Sign	Kingston	823	18	0	0	1944	23	1	0
9	Bishops Highway State Highway (Route 80) at Indian Pond Road	Stop Sign	Kingston	539	10	0	0	1318	16	1	1
10	Bishop Highway State Highway (Route 80) at Parting Ways Road	Stop Sign	Kingston	839	10	0	0	2089	24	5	0
11	Plympton Road (Route 80) at Kristin Road/Willow Bend Blvd	Stop Sign	Plymouth	940	14	0	0	2518	22	7	0
12	Plympton Road at Charlotte Drive	Stop Sign	Plymouth	954	12	0	0	2560	13	4	1
13	Plympton Rd (Route 80) at Sterling Blvd	Stop Sign	Plymouth	804	13	0	0	2224	12	0	1
14	Plympton Rd (Route 80) at West Elementary School	Stop Sign	Plymouth	991	23	0	0	2393	22	0	1
15	Plympton Road (Route 80) at Commerce Way	Signal	Plymouth	2927	77	0	3	9149	109	10	0
16	Plympton Road (Route 80) at Carver Road	Signal	Plymouth	2234	58	2	0	7093	67	11	0

Truck Percentage

			Truck %**	
	Location	Town	Weekday	Weekend
	Brook Street (Route 80) east of Country Club Way	Kingston	16.7%	15.7%
2	Elm Street (Route 80) east of Indian Pond Road	Kingston	11.3%	8.8%
3	Elm Street (Route 80) east of South Street	Kingston	10.2%	7.9%
4	Elm Street west of Route 80 State Highway (Indian Pond Road)	Kingston	15.8%	12.8%
5	Indian Pond Rd South of Elm St	Kingston	12.6%	11.3%
6	Bishops Highway (Route 80) south of Indian Pond Road	Kingston	14.1%	11.6%
7	Bishops Highway (Route 80) north of Parting Ways Road	Kingston	7.8%	5.8%
8	Patingways West of Bishops Hwy	Kingston	8.0%	6.4%
9	Plympton (Route 80) East of Bishops Hwy	Plymouth	10.4%	7.9%
10	Plympton Road (Route 80) west of Commerce Way	Plymouth	12.9%	10.9%
11	Plympton Road (Route 80) west of Carver Road	Plymouth	10.4%	10.3%



Corridor Study Survey Summary

Overall: 153 Responses

Languages Offered: English and Portuguese

Promoted to: Communities and agencies websites, OCPC newsletter, websites, social medias

Plymouth

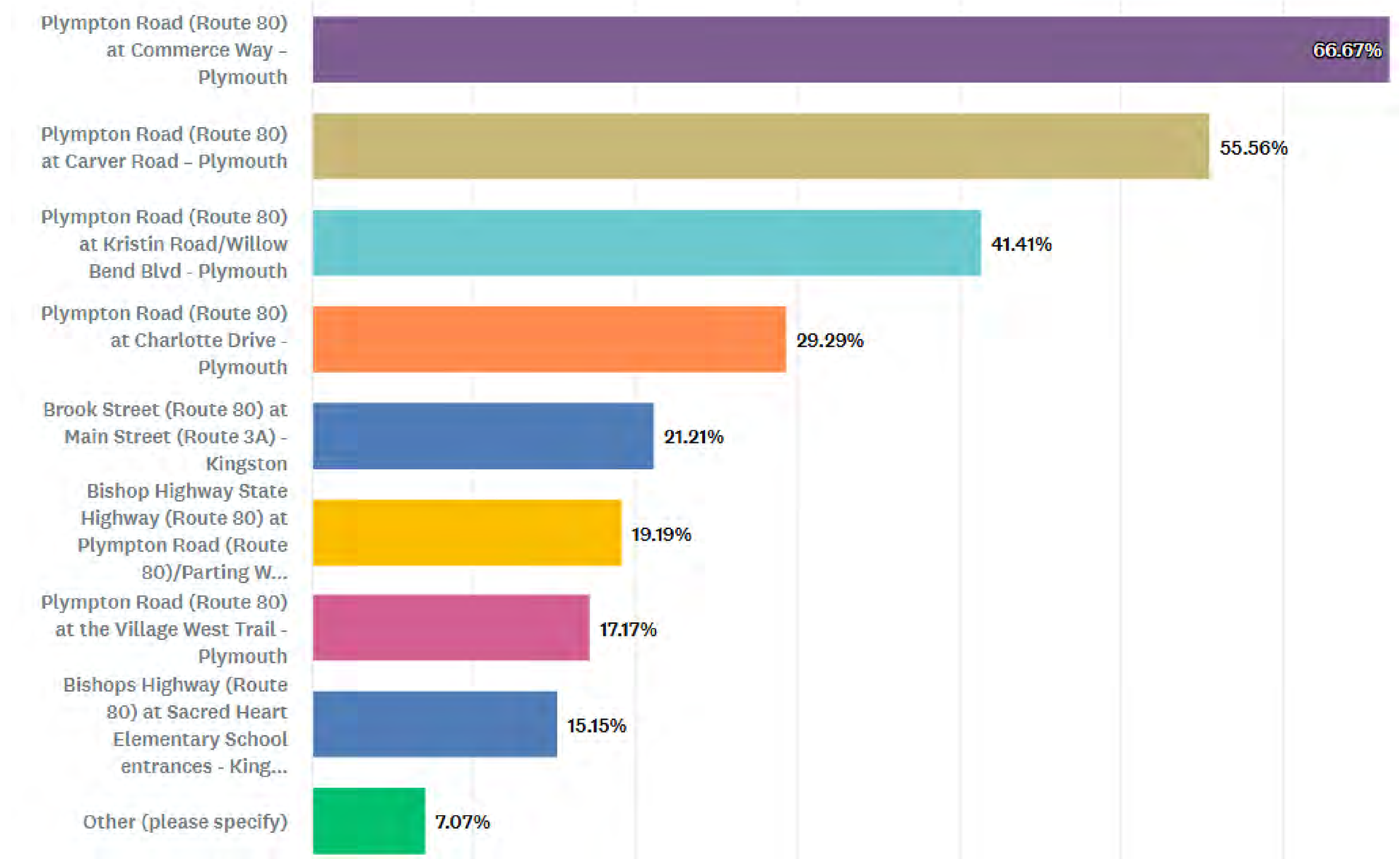
Primary modes of transportation(104 responses):
- Car: 90.4% (single 55.77%)
- Walking: 0.96%

Secondary modes of transportation(95 responses):
- Cars: 73.68% (single 41.05%)
- Walking: 26.32
- Bicycling: 8.42%
- Ride-sharing: 3.16%
- Motorcycle: 2.11%

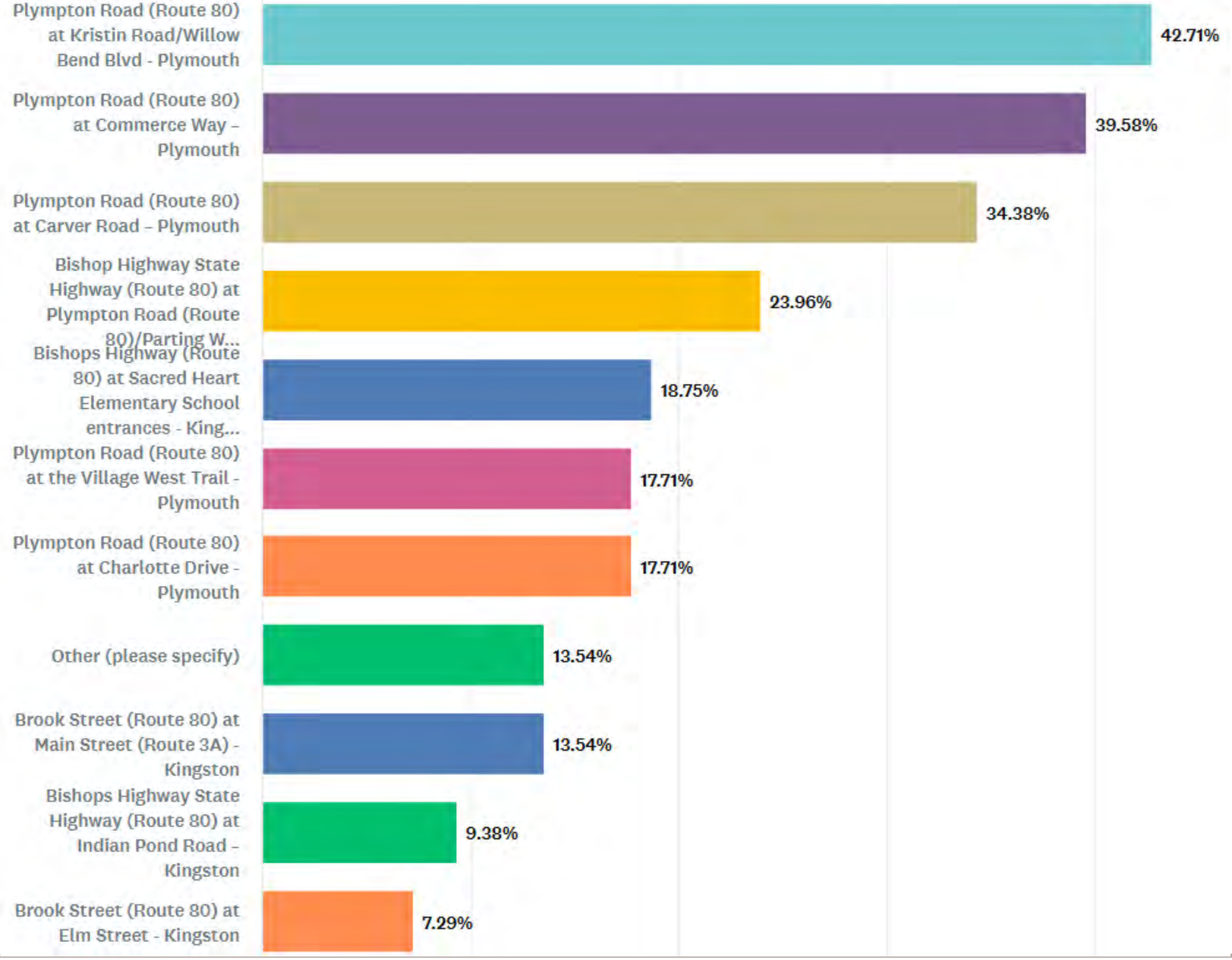
Primary purposes of trips(104 responses):
- Shopping: 37.5%
- Commute: 23.08%
- Social visit: 12.5%
- Medical appointment: 8.65%
- Recreational: 6.73%

Regularly looking for alternative routes to avoid congestion on Route 80 (101 responses)
- Yes: 17.82%
- No: 82.18%

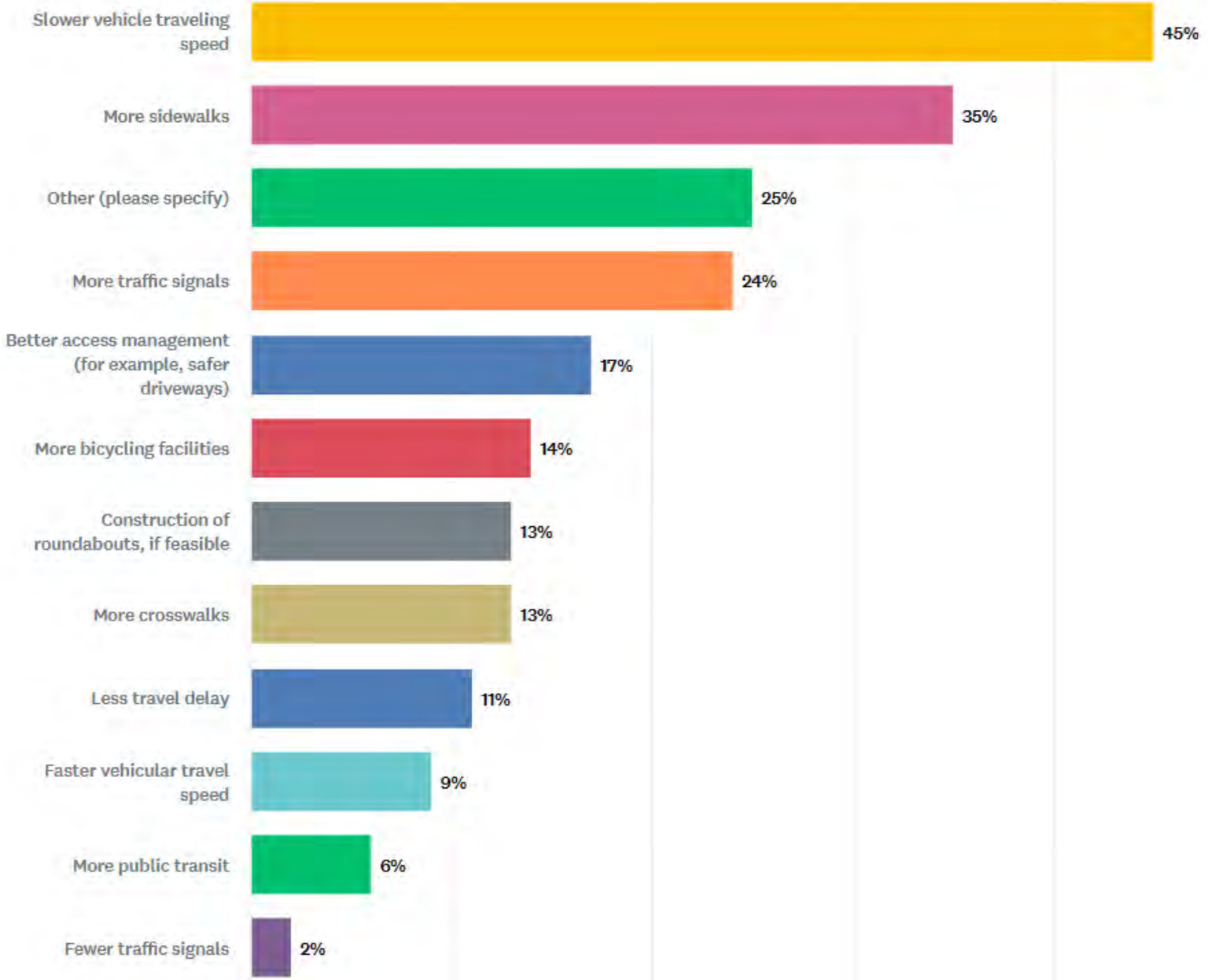
Plymouth Surveys Most Congested Location (99 Responses)



Plymouth Surveys Locations required safety improvements (96 responses)



What infrastructure investments you like to see in the future (100 responses)



What future land development would you like to see (93 responses)

NO MORE LAND DEVELOPMENT: 41.93%

INCREASE RESIDENTIAL USE DEVELOPMENT: 22.58%

MIXED-USED DEVELOPMENT: 24.73%

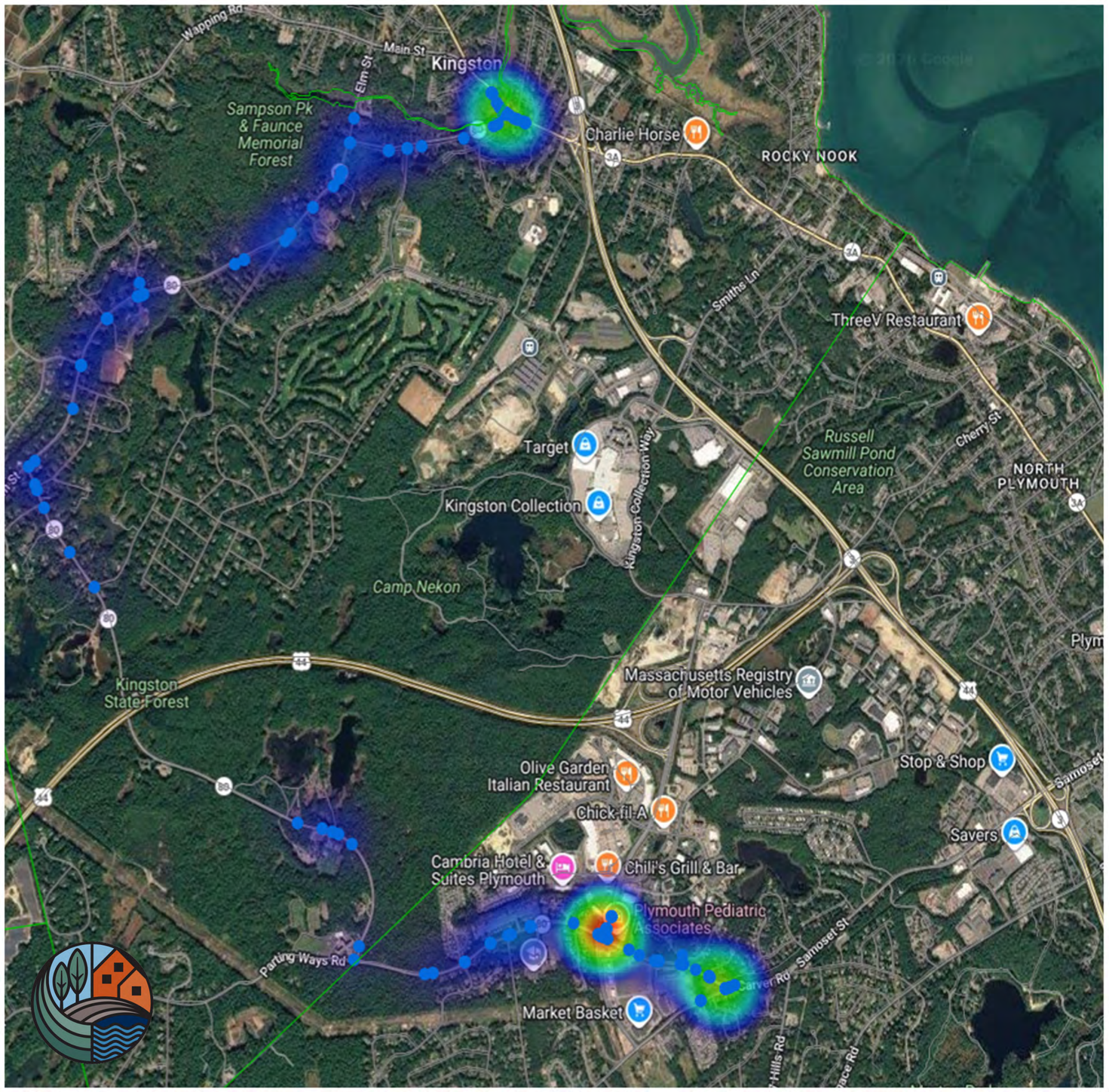
INCREASE COMMERCIAL DEVELOPMENT DENSITY: 10.75%

INCREASE BUSINESS DEVELOPMENT DENSITY: 8.6 %

TRANSIT-ORIENTED DEVELOPMENT: 6.45%

Preferred bicycling facilities for Route 80 (80 responses)

- Off-road multi-use path: 52.5%
- Off-road trail: 45%
- Separate bike lane: 26.25%
- Other: 13.75%
  - No bicycling:11.25%



Traffic Collisions Heat Map

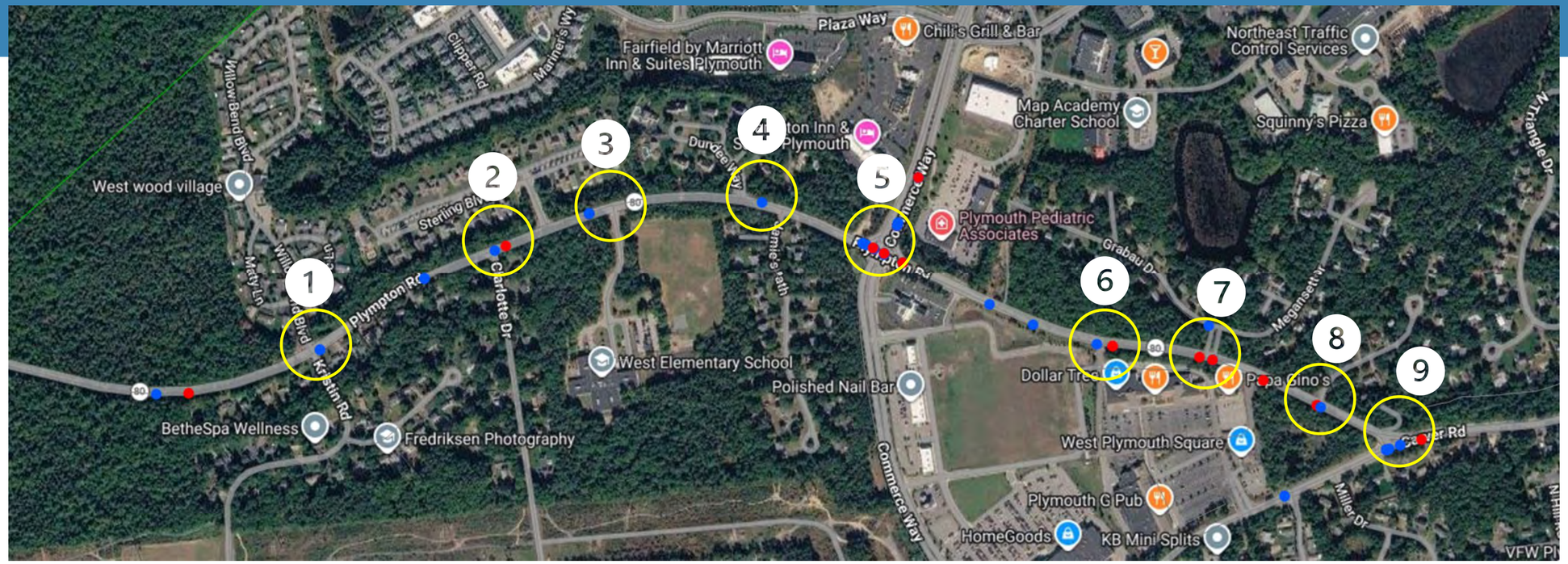
- Approximately 500 feet from Route 80 centerline for 5 full years (2021, 2022, 2023, 2024, and 2025)

- Total: 164

- Types of Collisions:
  - Single vehicle: 60
  - Rear-end:42
  - Angle: 32
  - Sideswipe: 25

- Severity:
  - Injury: 47
  - PDO: 117

Plymouth Route 80 Corridor Key Intersections Collision Summary



	Location	Type	Community	Jurisdiction	2021-2025 Collision Frequency*	Int Volume	Crash Rate	Angle	Rear-end	Head-on	Sideswipe, SD	Sideswipe, OD	Single Vehicle	Injury	PDO
1	Plympton Road (Route 80) at Willow Bend Blvd/Kristin Road	Stop	Plymouth	State	2	679	0.16	-	1	1	-	-	-	-	2
2	Plympton Road at Charlotte Drive	Stop	Plymouth	State	2	714	0.15	-	1	0	-	-	1	1	1
3	Plympton Rd (Route 80) at West Elementary School	Stop	Plymouth	State	5	707	0.39	-	1	0	-	-	4	1	4
4	Plympton Rd(Route 80) at Dundeeway/Jamie's path	Stop	Plymouth	State	1	-	-	-	-	-	-	-	1	-	1
5	Plympton Road (Route 80) at Commerce Way	Signal	Plymouth	State	37	2476	0.82	15	8	1	5	2	5	11	26
6	West Plymouth Square Mall entrances (2)	Stop	Plymouth	State	4	-	-	1	2	1	-	-	-	3	1
7	Route 80 at Megansett Dr	Stop	Plymouth	State	3	1156	0.14	1	2	-	-	-	-	2	1
8	Route 80 at Village West Trail	Stop	Plymouth	State	4	-	-	-	2	-	-	1	1	3	1
9	Plympton Road (Route 80) at Carver Road	Signal	Plymouth	State	19	1982	0.53	3	5	-	2	-	9	3	16

Accurate Traffic Count data collected during September 9 2026 , except Megansett collected in May 2026

2021-2025 five full years collisions data from IMPACT portal

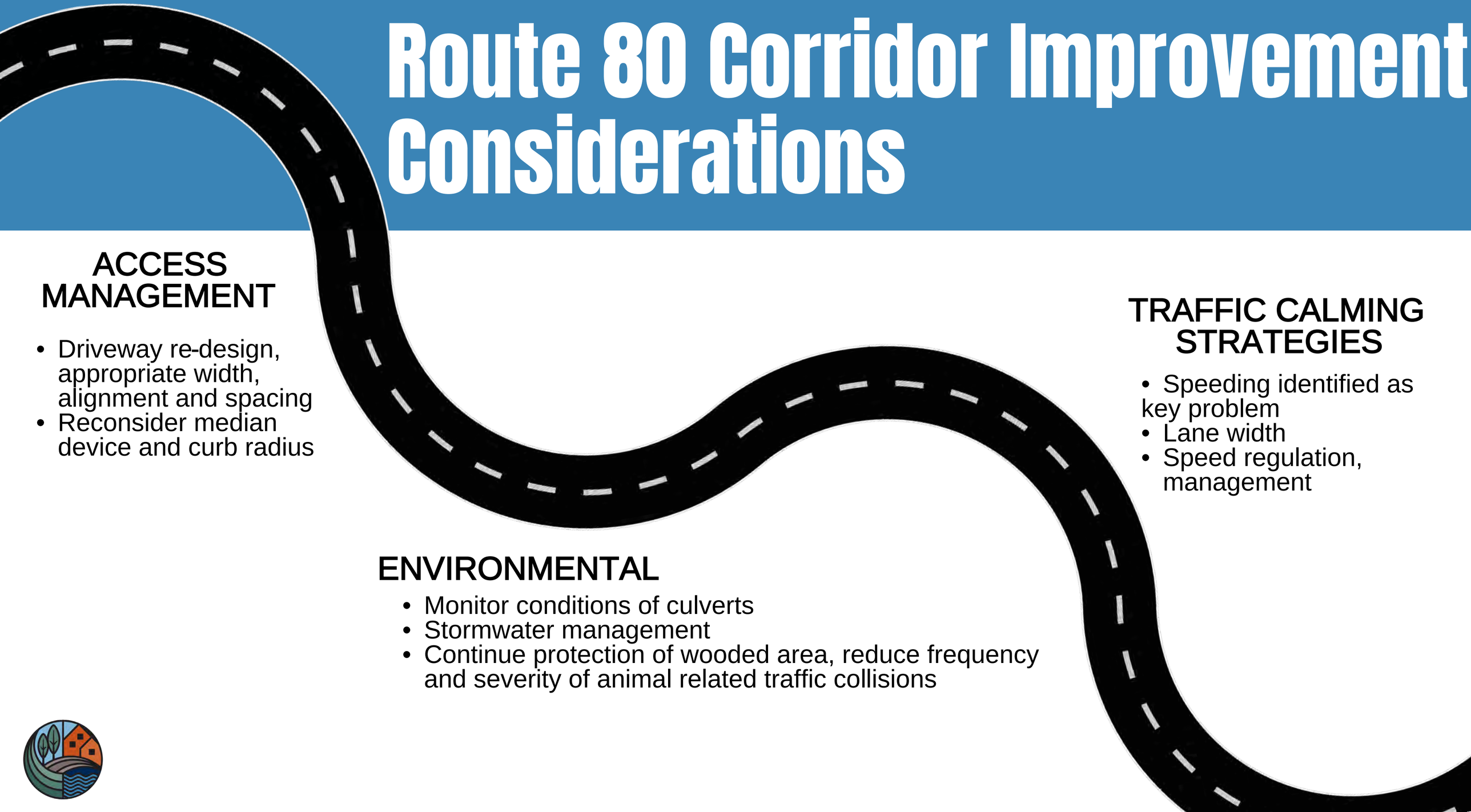
PM peak hour exterploated to ADT and applied peak hour 10% daily volume for average ADT

$$R = \frac{A \times 1{,}000{,}000}{V * 365}$$

AVERAGE CRASH RATE:

Massachusetts		District 5	
Signal:	Unsignalized:	Signal:	Unsignalized:
0.78	0.57	0.75	0.57

Route 80 Corridor Improvement Considerations



ACCESS MANAGEMENT

- Driveway re-design, appropriate width, alignment and spacing
- Reconsider median device and curb radius

TRAFFIC CALMING STRATEGIES

- Speeding identified as key problem
- Lane width
- Speed regulation, management

ENVIRONMENTAL

- Monitor conditions of culverts
- Stormwater management
- Continue protection of wooded area, reduce frequency and severity of animal related traffic collisions

Route 80 Corridor Improvement Considerations

ROADWAY MAINTENANCE

- Enhance pavement marking, update & traffic signages
- Reconstruct damaged sidewalk or damaged road surface
- Resurfacing for the segments

INTERSECTIONS & SEGMENT CAPACITY

- Evaluate intersections turning capacity improvement
- Cross section layout

EVALUATION OF HEAVY VEHICLE EXCLUSION OR RESTRICTION IN THE AREA

- The residential and focused area

CONTINUOUS & SAFE BICYCLING/PEDESTRIAN NETWORK SYSTEM

- Improve sidewalk connection, improve pedestrian safety
- RRFBs, HAWK signals if warranted
- Multiple use path, separated bicycle lanes
- Connect bicycling destinations
- ADA compliance

Next Steps

Virtual Public Meetings

- Registration required for all
- Plymouth Route 80 Corridor Study, 6:30-7:30 PM, May 21, 2026
- Kingston Route 80 Corridor Study, 6:30-7:30 PM, May 28, 2026

Draft Report – August 2026

- Peer review, agencies review
- Verify and finalize transportation analysis
- Documentation, summary and maps
- Further traffic and safety warrants evaluation

Follow-Up Activities

- Optional meetings and stakeholder coordination
- Road Safety Audit as needed (RSA) if needed
- Review of final report findings and recommendations

Final Report – September 30, 2026

OLD COLONY
PLANNING COUNCIL

QUESTIONS

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https://oldcolonyplanning.org/transportation/rt80corridor/