

Cape Cod Regional Transportation Plan Subcommittee

April 14, 2023 | 10:00 AM

THANK YOU FOR JOINING THIS VIRTUAL MEETING
Please review the notes below while you wait for the meeting to begin

The meeting will be held virtually, with all members of the Cape Cod Joint Transportation Committee Regional Transportation Plan Subcommittee participating remotely, pursuant to applicable law. If anyone is having a technical issue, use either the chat box on your screen or call (508) 362 – 3828 and staff will assist you.

Participants wishing to speak should click the “Raise Hand” icon on the lower toolbar to notify the chair. Telephone participants should press *9 to indicate that they wish to speak. All participants will be muted until they are recognized by the chair.

This meeting is being recorded for purpose of creating minutes.



*** 1. Call to Order**

2. Roll call
3. Public Comment
4. Potential approval of Meeting Minutes
5. 2024 RTP
6. Future Meeting Dates
7. New Business
8. Adjourn

1. CALL TO ORDER

After calling the meeting to order, the chair will ask staff to read a series of procedural meeting announcements.

Meeting Announcements

* 1. Call to Order

2. Roll call
3. Public Comment
4. Potential approval of Meeting Minutes
5. 2024 RTP
6. Future Meeting Dates
7. New Business
8. Adjourn

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- This meeting is being recorded for purpose of creating minutes.
- If anyone is having a technical issue, use either the chat box on your screen or call (508) 362 – 3828 and staff will assist you.
- Participants wishing to speak should click the “Raise Hand” icon on the lower toolbar to notify the chair. Telephone participants should press *9 to indicate that they wish to speak and *6 to unmute themselves.

1. Call to Order

* 2. Roll call

3. Public Comment

4. Potential approval of
Meeting Minutes

5. 2024 RTP

6. Future Meeting Dates

7. New Business

8. Adjourn

2. ROLL CALL

The Chair will take roll call to identify voting members who will be participating remotely and confirm a quorum is present.

1. Call to Order

* 2. Roll call

3. Public Comment

4. Potential approval of
Meeting Minutes

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Roll Call

RTP Subcommittee Members:

Jay Norton, Wellfleet

Griffin Ryder, Brewster

Tom Andrade, Dennis

Paul Tilton, Sandwich

Griffin Beaudoin, Barnstable

1. Call to Order

2. Roll call

*** 3. Public Comment**

4. Potential approval of Meeting Minutes

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3. PUBLIC COMMENT

- Participants wishing to speak should click “Participants” icon on the lower toolbar and then click “Raise Hand” in the dialog box to notify the chair. Telephone participants should press *9 to indicate that they wish to speak.
- We ask that members of the public who wish to provide comment identify themselves by first and last name and affiliation for the public record and then provide their comment.
- The chat space is reserved for questions regarding technical difficulties.

1. Call to Order
2. Roll call
3. Public Comment

*** 4. Potential approval of Meeting Minutes**

5. 2024 RTP
6. Future Meeting Dates
7. New Business
8. Adjourn

If anyone is having a technical issue, use either the chat box on your screen or call (508) 362 – 3828 and staff will assist you.

3 . POTENTIAL APPROVAL OF PRIOR MEETING MINUTES

Meetings minutes from January 13, 2023

POTENTIAL ROLL CALL VOTE

1. Call to Order
2. Roll call
3. Public Comment
4. Potential approval of Meeting Minutes

*** 5. 2024 RTP**

6. Future Meeting Dates
7. New Business
8. Adjourn

4. 2024 Regional Transportation Plan (RTP)

The Regional Transportation Plan (RTP) establishes long-range vision and goals, and identifies major projects, studies, and programs for transportation on Cape Cod for the years 2024 through 2050. Committee members will discuss the universe of projects under consideration for inclusion in the 2024 Regional Transportation Plan.

Cape Cod Regional Transportation Plan

- **Long Range Transportation Plan (20-25 years)**
- **Includes all modes**
- **Establishes the regional vision**
- **Prioritizes infrastructure projects within available funding**
- **Last updated in 2019**



2024 Regional Transportation Plan Draft Development Schedule

Preliminary RTP Development

Summer 2022 – January 2023

Listening Sessions and Survey

February

RTP Development Discussions

February/March/April

Draft Document Released

May 2023

21-Day Public Comment Period
with Outreach Events

May – June

Potential Approval

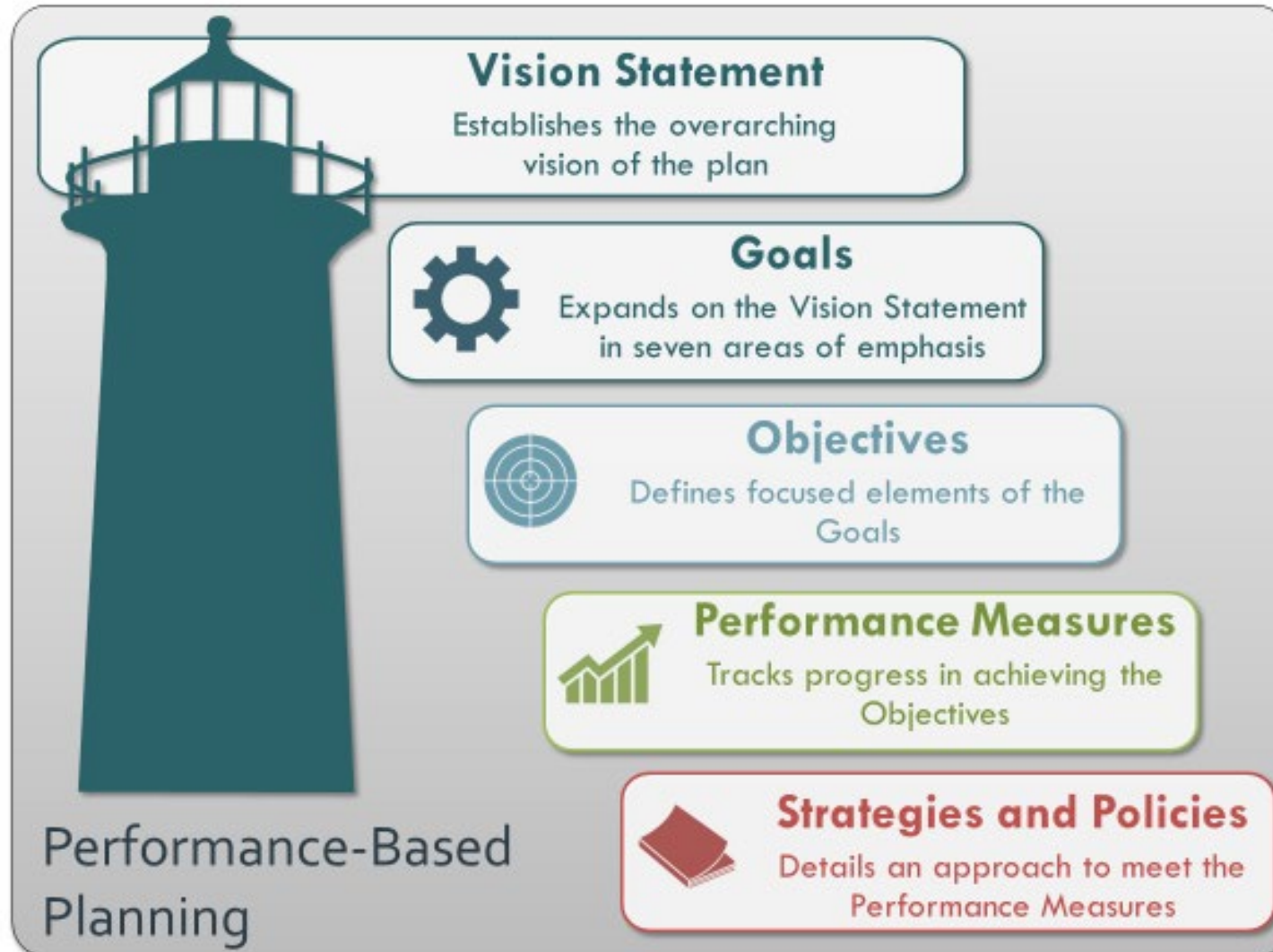
June 2023

RTP Subcommittee Meetings

- **Meeting 1**: Provide feedback on draft vision, goals, and objectives
 - Draft “Universe of Projects” distributed
- **Meeting 2**: Provide feedback “Universe of Projects” and project evaluation approach
 - Financial guidance distributed
 - Draft project ranking distributed
- **Meeting 3/4**: Review project ranking and develop draft project list
- Report back to the CCJTC



RTP Outline



2024 Regional Transportation Plan DRAFT Vision Statement

Vision Statement:

“The Cape Cod Metropolitan Planning Organization, informed by public input, envisions a multi-modal transportation system that supports the environmental and economic vitality of the region through infrastructure investment that focuses on safety, livability, sustainability, resiliency, equity, and preservation of the character that makes our special place special.”

2024 RTP GOALS AND OBJECTIVES



Safety



Environmental and Sustainability



Livability and Economic Vitality



Multimodal Options/Healthy Transportation



Congestion Reduction



System Preservation



Freight Mobility

EQUITY

Universe of Projects

2020 RTP Assumptions:

- Projects were limited to \$10⁺ million
- Smaller bundled in “other TIP projects” (i.e. Route 28 Multimodal Improvements)
- Some projects under \$10 million included if potential benefits were commensurate with these larger scale projects (i.e. Scenic Highway)

2020 RTP Highway Regional Target Projects

- TIP Projects (i.e. Route 151)
- Rail Trail Extensions
- Route 6 Outer Cape Safety & Multimodal
- Route 28 Multimodal Improvements
- Canal Area
- Route 6 (Mid-Cape Highway) Interchange and Ramp Improvements
- Hyannis Access Phase II (Yarmouth Road)

2020 RTP Priority Projects & Programs – Highway Discretionary Funding

YEARS OF FUNDING	PROJECT / PROGRAM	2020 TOTAL ESTIMATED COST	TOTAL-YEAR OF EXPENDITURE (YOE) ESTIMATED COST
2020-2024	Mashpee 151	\$15,000,000	\$16,224,000
	Route 28 Multimodal Improvements	\$13,000,000	\$14,060,800
	Rail Trail Extensions (Mid- and Upper-Cape) ¹		[\$16,780,305]
	Scenic Highway Median Barrier	\$10,000,000	\$10,816,000
	Programs		\$15,794,330
	Subtotal Funding		\$56,895,130
2025-2029	Rail Trail Extensions (Outer Cape)	\$20,000,000	\$26,318,636
	Hyannis Access Phase II (Yarmouth Road Corridor)	\$12,000,000	\$15,791,181
	Scenic Highway/Rte. 25 Connector Ramp	\$7,000,000	\$9,211,522
	Route 6 Exit 1C Relocation ²		[\$51,000,000]
	Route 6 Eastbound Additional Travel Lane to Exit 2 ²		[\$48,000,000]
	Sagamore Bridge Approach ^{2,3}		[\$64,000,000]
	Bourne Bridge Approach ^{2,3}		[\$84,000,000]
	Programs		\$13,909,528
	Subtotal Funding		\$65,230,867
2030-2034	Route 6 Outer Cape Safety & Multimodal Improvements	\$17,000,000	\$27,217,548
	Rail Trail Extensions (Mid- and Upper-Cape) remainder	\$19,000,000	\$30,419,612
	Route 28 Multimodal Improvements	\$7,000,000	\$11,207,226
	Belmont Circle Reconstruction ²		[\$23,000,000]
	Bourne Rotary Reconstruction (Interchange) ²		[\$87,000,000]
	Programs		\$11,250,671
	Subtotal Funding		\$80,095,056
2035-2039	Interchange Improvements Route 6 – priority locations	\$20,000,000	\$38,958,010
	Bike Path Connectors to town centers	\$10,000,000	\$19,479,005
	Programs		\$30,336,402
	Subtotal Funding		\$88,773,417
2040	Programs		\$18,881,933
	Subtotal Funding		\$18,881,933
2020 - 2040 Total			\$309,876,403

¹ Projects funded in the *Federal Fiscal Year Cape Cod 2020-2024 Transportation Improvement Program* through a combination of state and federal sources outside of the regional target. Includes the Yarmouth-Barnstable Cape Cod Rail Trail extension, the Sandwich Shared Use Path along Service Road, and Phase I of the Bourne Rail Trail.

² Projects recommended in the *Summer 2019 DRAFT MassDOT Cape Cod Canal Transportation Study*. Projects to be funded through a combination of state and federal sources outside of the regional target.

³ Contingent upon United States Army Corps of Engineers' *Major Rehabilitation Evaluation Report* recommending replacement of the Bourne and Sagamore Bridges.

Status of 2020 RTP Regional Priority Projects Completed or Currently funded in the TIP

FFY	Project	Funding Status
2020-2024	Mashpee Route 151	Phase I funded (2021); Phase II [2024 TIP]
	Route 28 Multimodal Improvements	Route 28 at Yarmouth Road funded (2019) Orleans, Route 28 at Quanset Road/Route 39 funded (2022) Harwich, Rt 28 Sidewalk [2024 TIP] Dennis/Harwich, Rt 28 Reconstruction [2024 TIP] Bass River Bridge & Rt 28 at N. Main St Intersection [2024 TIP - statewide] Chatham, Route 28 at Crowell Rd [2027TIP] Dennis, Route 28 Streetscape [2027 TIP]
	Scenic Highway Median Barrier	MassDOT advancing [2025 statewide TIP]
2025-2029	Rail Trail Extensions (Mid and Upper Cape)	Sandwich, Shared Use Path funded (2022) Yarmouth-Barnstable, CCRT Extension [2024 TIP - statewide] Bourne, Rail Trail (Phase 1) [2025 TIP - statewide]
	Hyannis Access Phase II (Yarmouth Road)	
	Route 25 Connector Ramp	Included within Canal Program
2030-2034	Route 6 Outer Cape Safety & Multimodal Improvements	Route 6 Wellfleet funded (2023) Route 6 Truro/Provincetown [2026 TIP - statewide]
	Rail Trail Extensions (Mid and Upper Cape) remaining segments	
	Route 28 Multimodal Improvements	
2035-2039	Route 6 Interchange Improvements	Potentially addressed in Barnstable, Route 6 Resurfacing [2026 TIP - statewide]

Status of 2020 RTP Regional Priority Projects PRC Approved* but Currently Unfunded

RTP Project Description	PRC-approved TIP Project*
Route 28 Multimodal Improvements	Yarmouth, Rt 28 Corridor Improvements Falmouth, Rt 28 Corridor Improvements Barnstable, Airport Rotary Retrofit Mashpee, Mashpee Rotary Retrofit Barnstable, Rt 28 from Lincoln to Garden Barnstable, Rt 28 at Santuit-Newtown
Rail Trail Extensions (Mid and Upper Cape)	Falmouth/Bourne, Shining Sea Bikeway Ext. Bourne Rail Trail Phase 2
Rail Trail Extensions (Outer Cape)	Truro/Wellfleet, Rt 6 Shared Use Path
Route 6 Outer Cape Safety & Multimodal Improvements	Eastham/Orleans, Rotary Wellfleet, Rt 6 at School St/Lawrence Rd
Other	Barnstable, Rt 6A Sidewalks Barnstable, Rt 132 Corridor Improvements Falmouth, Route 151 at Route 28A

*As of April 2023

Draft Approach to Developing 2024 RTP Projects & Programs – Highway Discretionary Funding

- Develop a draft Universe of Projects
- Discussion of draft vision, goals, and objections
- Discussion of available funding

- For Highway Discretionary Funding, focus on projects over \$20 million
- Include relevant projects in the 2024-28 TIP in the first timeband
- Review and rescore projects that were included in the 2020 RTP
- Consider project score, equity, and GHG emissions impacts along with factors such as readiness, community support, and co-benefits to other regional priorities
- Review potential funding scenario – add additional projects if feasible
- Develop priorities of projects under \$20 million

- Review list of Highway Discretionary Funding in the context of all RTP investments including statewide highway funding and transit funding

2024 RTP Regional Priority Projects*

FFY	Target	Allocated (YOE)	Project	Funding Status
2024-2028	\$74.4 M	\$20.8 M	Mashpee Route 151	Phase II [2024 TIP]
		\$40.2 M	Route 28 Multimodal Improvements	Harwich, Rt 28 Sidewalk [2024 TIP] Dennis/Harwich, Rt 28 Reconstruction [2025 TIP] Chatham, Route 28 at Crowell Rd [2027 TIP] Dennis, Route 28 Streetscape [2027 TIP] Yarmouth, Route 28 Corridor [2028 TIP]
		\$13.4 M	Provincetown, Shank Painter Road and Route 6 Improvements	[2025 TIP]
2029-2033	\$88.9 M			
2034-2038	\$98.2 M			
2039-2043	\$108.6 M			
2044	\$23.0 M			

*Based on draft FFY2024-28 TIP Recommendations

2024 RTP Regional Priority Projects

Years of Funding	Project / Program	2024 Total Estimated Cost	Total Year Of Expenditure (YOE) Estimated Cost
2024-2028	Mashpee 151*		\$20,800,000
	Route 28 Multimodal Improvements		\$40,200,000
	Route 6 Outer Cape Improvements (Provincetown, Shank Painter Road and Route 6)		\$13,400,000
	Remaining Funds		\$36,354
	Subtotal Funding		\$74,436,354
2029-2033			
	Subtotal Funding		\$88,895,177
2034-2038			
	Subtotal Funding		\$98,248,464
2039-2043			
	Subtotal Funding		\$108,613,816
2044			
	Subtotal Funding		\$22,983,599
2024 - 2044 Total			\$393,177,409

*The only regional priority project >\$20 M that is required to be included. Other projects funded from statewide funding programs, like the Route 28 Bass River Bridge project, will be identified elsewhere.

DRAFT Project Evaluation Process For 2024 RTP

Evaluation by Goal + Subcommittee Feed → Highway Regional Target Projects

Initial Weight	Goal
10	Safety
15	Environmental and Sustainability
15	Livability and Economic Vitality
15	Multimodal Options/ Healthy Transportation
15	Congestion Reduction
20	System Preservation
10	Freight Mobility

Score	Relationship to MPO Goal
5	Strongly supports goal; highest level of positive impact
4	Strongly supports goal; high level of positive impact
3	Strongly supports goal; moderate positive impact
2	Supports goal; moderate positive impact
1	Supports goal; minor positive impact
0	Not applicable
-5	Overall adverse impact

DRAFT Evaluation of Priority Projects from 2020 RTP

Project	Safety	Environment and Sustainability	Livability and Economic Vitality	Multimodal/Healthy Transportation	Congestion Reduction	System Preservation	Freight Mobility	Total	Title VI Population*	Nature of Impact on Title VI Population*	Anticipated GHG Emissions Impact
Rte 28 Multimodal Improvements	10	6	15	15	6	16	8	76	I, M, LEP	Improved bicycle/pedestrian access, safety, traffic flow	Quantified Decrease in Emissions from Bicycle and Pedestrian Infrastructure
Hyannis Access Improvements (Route 132 and Yarmouth Road)	8	6	12	12	9	16	8	71	I, M, LEP	Improved bicycle/pedestrian access, safety	Qualitative Decrease in Emissions
Route 6 Improvements Outer Cape Improvements	8	6	9	15	3	12	6	59	I, LEP	Improved bicycle/pedestrian access, safety, traffic flow	Qualitative Decrease in Emissions
Mashpee Route 151 (Phase II)	8	3	9	9	6	12	6	53	M	Improved bicycle/pedestrian access, safety	Qualitative Decrease in Emissions
Rail Trail Extensions (Mid-Cape)	6	6	6	15	6	12	0	51	I, M, LEP	Improved bicycle/pedestrian access, safety	Qualitative Decrease in Emissions
Rail Trail Extensions (Upper Cape)	6	6	6	15	6	12	0	51	I	Improved bicycle/pedestrian access, safety	Qualitative Decrease in Emissions
Rail Trail Extensions (Outer Cape)	6	6	6	15	6	12	0	51	I	Improved bicycle/pedestrian access, safety	Qualitative Decrease in Emissions
Route 6 Interchange Improvements	10	0	3	0	3	16	4	36	M, I	Improved safety	Qualitative Decrease in Emissions

Maximum Possible

10 15 15 15 15 20 10 100

Draft for CCJTC RTP Subcommittee Review

*Title VI Population Affected I=Income M=Minority LEP=Limited English Proficiency

DRAFT Evaluation of Priority Projects from 2020 RTP (with updated scoring)

Project	Safety	Environment and Sustainability	Livability and Economic Vitality	Multimodal/Healthy Transportation	Congestion Reduction	System Preservation	Freight Mobility	Total	Title VI Population*	Nature of Impact on Title VI Population*	Anticipated GHG Emissions Impact
Rte 28 Multimodal Improvements	20	6	15	15	6	8	8	78	I, M, LEP	Improved bicycle/pedestrian access, safety, traffic flow	Quantified Decrease in Emissions from Bicycle and Pedestrian Infrastructure
Hyannis Access Improvements (Route 132 and Yarmouth Road)	16	6	12	12	9	8	8	71	I, M, LEP	Improved bicycle/pedestrian access, safety	Qualitative Decrease in Emissions
Route 6 Improvements Outer Cape Improvements	16	6	9	15	3	6	6	61	I, LEP	Improved bicycle/pedestrian access, safety, traffic flow	Qualitative Decrease in Emissions
Mashpee Route 151 (Phase II)	16	3	9	9	6	6	6	55	M	Improved bicycle/pedestrian access, safety	Qualitative Decrease in Emissions
Rail Trail Extensions (Mid-Cape)	12	6	6	15	6	6	0	51	I, M, LEP	Improved bicycle/pedestrian access, safety	Qualitative Decrease in Emissions
Rail Trail Extensions (Upper Cape)	12	6	6	15	6	6	0	51	I	Improved bicycle/pedestrian access, safety	Qualitative Decrease in Emissions
Rail Trail Extensions (Outer Cape)	12	6	6	15	6	6	0	51	I	Improved bicycle/pedestrian access, safety	Qualitative Decrease in Emissions
Route 6 Interchange Improvements	20	0	3	0	3	8	4	38	M, I	Improved safety	Qualitative Decrease in Emissions

Maximum Possible

20

15

15

15

15

10

10

100

Draft for CCJTC RTP Subcommittee Review

*Title VI Population Affected I=Income M=Minority LEP=Limited English Proficiency

2024 RTP Regional Priority Projects (for discussion)

Years of Funding	Project / Program	2024 Total Estimated Cost	Total Year Of Expenditure (YOE) Estimated Cost
2024-2028	Mashpee 151		\$20,800,000
	Route 28 Multimodal Improvements		\$40,200,000
	Route 6 Outer Cape Improvements (Provincetown, Shank Painter Road and Route 6)		\$13,400,000
	Various Projects <\$20M		\$36,354
	Subtotal Funding		\$74,436,354
2029-2033	Route 28 Multimodal Improvements	\$20,000,000	\$26,318,636
	Rail Trail Extensions (Upper- and Outer- Cape)	\$15,000,000	\$19,738,977
	Route 6 Safety Improvements (Outer Cape)	\$20,000,000	\$26,318,636
	Various Projects <\$20M		\$16,518,929
	Subtotal Funding		\$88,895,177
2034-2038	Route 28 Multimodal Improvements	\$20,000,000	\$32,020,644
	Rail Trail Extensions (Uppper Cape)	\$20,000,000	\$32,020,644
	Route 6 Safety Improvements (Interchange Improvements)	\$19,000,000	\$30,419,612
	Various Projects <\$20M		\$3,787,563
	Subtotal Funding		\$98,248,464
2039-2043	Hyannis Area Improvements (Route 132 and Yarmouth Road)	\$30,000,000	\$58,437,015
	Rail Trail Extensions (Mid-Cape)	\$20,000,000	\$38,958,010
	Various Projects <\$20M		\$11,218,791
	Subtotal Funding		\$108,613,816
2044	Various Projects <\$20M		\$22,983,599
	Subtotal Funding		\$22,983,599
2024 - 2044 Total			\$393,177,409

Priorities for Various Projects <\$20 M

% Safety

% Bicycle/Pedestrian

% Roadway & bridge maintenance

% Congestion/Air Quality

% Climate Change Adaptation & Mitigation

% Technology

1. Call to Order
2. Roll call
3. Public Comment
4. Potential approval of Meeting Minutes
5. 2024 RTP

*** 6. Future Meeting Dates**

7. New Business
8. Adjourn

5. FUTURE MEETING DATES

Committee members may determine future subcommittee meeting dates.

1. Call to Order
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- * 7. New Business**
8. Adjourn

6. NEW BUSINESS

Topics not reasonably anticipated by the Chair more than 48 hours before the meeting.

1. Call to Order
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*** 8. Adjourn**

7. ADJOURN

RTP Subcommittee Members:

Jay Norton, Wellfleet
Griffin Ryder, Brewster
Tom Andrade, Dennis
Paul Tilton, Sandwich

Griffin Beaudoin, Barnstable