

PROJECT PRIORITIZATION

FOR THE STATE TEN YEAR PLAN

TWO PARTS TO ADDRESS

- *COMMENTS ON DRAFT TEN YEAR PLAN, POLICIES, AND OTHER RELATED ISSUES*
- *MPO RECOMMENDATIONS FOR PRIORITY PROJECTS*

PROJECT SPECIFIC COMMENTS

- *NEWFIELDS-NEWMARKET 28393 (NH 108 OVER B&M RR) BRIDGE REHABILITATIONS*
- *EPPING 29608 (NH 125 FROM NH 27 TO NH 87) & 40643 (SIGNAL COORDINATION ON NH 125)*
- *EPPING 29608 (NH 125 FROM NH 27 TO NH 87)*
- *GENERAL SULLIVAN BRIDGE (NEWINGTON-DOVER 11238S)*
- *PORTSMOUTH 40644 MAPLEWOOD AVENUE RAILROAD CROSSING UPGRADE*
- *CORRIDOR STUDIES*

POLICY & FUNDING COMMENTS

- *OVERALL FUNDING LEVELS TOO LOW*
- *HSIP/CMAQ/TAP – APPRECIATE COMMITMENT TO MAINTAINING FUNDING IN THESE PROGRAMS*
- *CMAQ FOR INTERCITY BUSES (40284) – FTA 5307 FOR BOSTON URBANIZED AREA IS A BETTER FIT.*
- *SUPPORT THE DOWNEASTER TRAIN SERVICE*
- *A BALANCED APPROACH TO IMPROVING THE TRANSPORTATION SYSTEM*

ADDRESSING FUTURE SYSTEM NEEDS

- *MORE COMPLETE NEEDS ASSESSMENT TO ADDRESS CHANGING TRANSPORTATION NEEDS*
- *A COMPLETE STREETS APPROACH*
- *ACCOUNT FOR INCREASED RISK FROM COASTAL FLOODING IN PROJECT DESIGN*

Projects Being Considered for the Ten Year Plan

Rank	Project #	CityTown	Roads	Scope of Work		Estimated Total Cost	Inflated 2028 Cost
1	6001023	New Castle-Rye	NH 1A/1B	Shoulders on NH 1A in Rye from Seavey Creek Bridge to the south end of Odiorne Point State Park & NH 1B from NH1A to the Bridge. Sidewalks on NH1B From Wild Rose Lane to Beach Hill Road, & shoulders Wild Rose Lane to USCG Station. Assumes working within existing ROW. NHDOT Highway Design indicates cost assumptions are reasonable.	PE	\$ 508,500	
					ROW	\$ 57,500	
					CON	\$ 1,412,500	
					Total	\$ 1,978,500	\$ 2,799,532
2	6197005	Hampton	NH 101/ US 1	NH 101/ US 1 interchange reconfiguration as per the outcome of the feasibility study. Costs based on McFarland-Johnson estimates from 2013 feasibility study. NHDOT Highway Design indicates cost assumptions are reasonable.	PE	\$ 500,000	
					ROW	\$ 1,000,000	
					CON	\$ 3,900,000	
					Total	\$ 5,400,000	\$ 7,640,875
3	6345011	North Hampton	US 1	Capacity improvements at Intersection of US 1 and Atlantic Avenue (NH 111) including safety improvements for bicycle and pedestrian access. Assumes addition of SB through lane, shoulders, and sidewalks. New signal required. Costs shown provided by NHDOT Highway Design Bureau and are based on recent bids for projects with similar scopes.	PE	\$ 400,000	
					ROW	\$ 500,000	
					CON	\$ 1,500,000	
					Total	\$ 2,400,000	\$ 3,395,944
5	6409004	Seabrook	US 1	Capacity improvements on US 1 between New Zealand Road and the Hampton Falls Town Line. Cost of a 5-lane cross section (recommended by NHDOT) is shown. Cost is based on bids for project Seabrook 16444 (Widening from NH 107 to Railroad Ave). Seabrook has an estimated \$1,000,000 in matching funds for project from developer exactions.	PE	\$ 750,000	
					ROW	\$ 500,000	
					CON	\$ 5,000,000	
					Total	\$ 6,250,000	\$ 8,843,605
8	6431003	Stratham	NH 108	NH 108 / Bunker Hill Avenue: Signalization And Turn Lanes And Intersection Realignment. Assumes added lane on Bunker Hill Avenue and right-turn lane on NH 108. . Potential historic property adjacent to intersection may limit expansion of roadway. NHDOT Highway Design Bureau provided updated cost estimates based on similar projects.	PE	\$ 200,000	
					ROW	\$ 100,000	
					CON	\$ 600,000	
					Total	\$ 900,000	\$ 1,273,479
10	6195001	Hampstead	NH 121	Improve The Intersection Of NH 121/ Derry Rd/ Depot Rd In Hampstead. Possible signal or roundabout at this location. NHDOT provided updated cost estimates based on similar projects.	PE	\$ 300,000	
					ROW	\$ 200,000	
					CON	\$ 1,200,000	
					Total	\$ 1,700,000	\$ 2,405,461
Total Costs						\$ 18,628,500	\$ 26,358,896

STAFF RECOMMENDATION

- *RECOMMEND DISCUSSED SET OF PROJECT SPECIFIC, POLICY, AND TRANSPORTATION PLANNING COMMENTS TO BE SUBMITTED TO NHDOT AND GACIT.*

PRIORITY PROJECTS

- *NEW CASTLE-RYE NH 1A/1B (RANK #1)* – SHOULDERS ON NH 1A IN RYE FROM SEAVEY CREEK BRIDGE TO THE SOUTH END OF ODIORNE POINT STATE PARK & NH 1B FROM NH1A TO THE BRIDGE. SIDEWALKS ON NH1B FROM WILD ROSE LANE TO BEACH HILL ROAD, & SHOULDERS WILD ROSE LANE TO USCG STATION. TOTAL INFLATED COST = *\$2,799,532*
- *STRATHAM NH 108/BUNKER HILL AVENUE (RANK #8)* – SIGNALIZATION AND TURN LANES AND INTERSECTION REALIGNMENT. TOTAL INFLATED COST = *\$1,273,479*
- *HAMPSTEAD NH 121/DEPOT RD/DERRY RD (RANK #10)* – IMPROVE [SIGNALIZE] THE INTERSECTION OF NH 121/ DERRY RD/ DEPOT RD IN HAMPSTEAD, TOTAL INFLATED COST = *\$2,405,461*

PURPOSE OF THIS EXERCISE

- To identify the transportation improvement needs in the RPC region – particularly highway & bridge projects.
- Prioritize those needs according to agreed upon selection criteria
- Recommend highway improvement projects to be added to the last two years of the State Ten Year Plan

PROJECT SELECTION CRITERIA

Criterion	Weight
Congestion	10.36%
Freight Mobility	5.16%
Alternative Modes	13.87%
Traffic Volume	8.47%
Facility Importance	6.9%
Safety Measures	16.96%
Safety Performance	6.06%
Service Life	3.79%
Bridge Condition	9.67%
Regional Support	18.8%

- Criteria established by NHDOT and the 9 Regional Planning Commissions
- Weight for each criterion set by the TAC
- Projects scored by RPC staff
- Prioritized list approved by TAC and Policy

TEN YEAR PLAN BUDGET TARGET GUIDANCE

Expected Annual Federal Funding	\$150,000,000
Debt Service	- \$17,000,000
Preservation and Maintenance	- \$70,000,000
Mandated Programs	- \$28,000,000
PE and ROW	- \$10,000,000
Available to RPCs Annually	\$25,000,000
Total New Programming for RPCs	\$50,000,000
RPC Target Share of Funding (14.7%)	\$6,643,663

RPC Target is intended to be guidance and not a hard upper limit of funding

TOP 10 PROJECT PRIORITIES AS SUBMITTED

Table 1: Prioritized Additions to the State Ten Year Plan

Rank	Project #	CityTown	Roads	Scope of Work	Score	Estimated Total Cost
1	6001023	New Castle-Rye	NH 1A/1B	Shoulders on NH 1A in Rye from Seavey Creek Bridge to the south end of Odiorne Point State Park & NH 1B from NH1A to the Bridge. Sidewalks on NH1B From Wild Rose Lane to Beach Hill Road, & shoulders Wild Rose Lane to USCG Station.	0.590	\$ 1,978,500
2	6197005	Hampton	NH 101/ US 1	NH 101/ US 1 interchange reconfiguration as per the outcome of the feasibility study	0.565	\$ 5,400,000
3	6345011	North Hampton	US 1	Capacity improvements at Intersection of US 1 and Atlantic Avenue (NH 111) including safety improvements for bicycle and pedestrian access	0.563	\$ 744,000
4	6409007	Seabrook	East Coast Greenway	Construct multiple use pathway on State owned portion of B&M railroad from Mass state line to Seabrook Station. East Coast Greenway.	0.540	\$ 918,000
5	6409004	Seabrook	US 1	Capacity improvements on US 1 between New Zealand Road and the Hampton Falls Town Line.	0.536	\$ 1,552,500
6	6197012	Hampton	Winnacunnet Rd (NH 101E) & High Street (NH 27)	The reconstruction of Winnacunnet Road as a "Complete Street" . New sidewalks along both sides of the roadway, travel way and shoulder delineation, new signage, markings & crossings. New Sidewalk construction of the "missing" link between Tobey Road and Five Corners within the existing ROW	0.519	\$ 900,000
7	6001018	Seabrook-Hampton	NH 1A	Route 1A Evacuation ITS Improvements: Deployment of Route 1A contra-flow signage, VMS, surveillance, and communications upgrades. From Regional ITS Architecture	0.497	\$ 2,139,000
8	6431003	Stratham	NH 108	NH 108 / Bunker Hill Avenue: Signalization And Turn Lanes And Intersection Realignment. Source: 1999-2020 LRP	0.492	\$ 565,200
9	6345006	North Hampton	US 1	Realign the southern intersection of US 1 and North Road to the south, widen to 5 lanes at the intersection and install a traffic signal. From US 1 Corridor Study.	0.483	\$ 2,645,000
10	6195001	Hampstead	NH 121	Improve The Intersection Of NH 121/ Derry Rd/ Depot Rd In Hampstead	0.481	\$ 300,000
					Total Costs	\$ 17,142,200

TIMELINE

- **May 2, 2017** – Prioritized project list submitted
- **August 15** – Staff met with NHDOT and priorities #1 & #2 were recommend to be funded based on budget.
- **August 17** – NHDOT publishes recommended projects list that only includes priority #2.
 - **Inflation pushes the cost well beyond budget target (\$10.4 million).**

Rank	Project #	CityTown	Roads	Scope of Work	Score	Estimated Total Cost	Inflated Total Cost
1	6001023	New Castle-Rye	NH 1A/1B	Shoulders on NH 1A in Rye from Seavey Creek Bridge to the south end of Odiome Point State Park & NH 1B from NH1A to the Bridge. Sidewalks on NH1B From Wild Rose Lane to Beach Hill Road, & soulders Wild Rose Lane to USCG Station.	0.590	\$ 1,978,500	\$ 2,799,532
2	6197005	Hampton	NH 101/ US 1	NH 101/ US 1 interchange reconfiguration as per the outcome of the feasibility study	0.565	\$ 5,400,000	\$ 7,640,875

TIMELINE

- August 17 – Staff contacts TAC & Policy for input on NHDOT's proposal and an alternate scenario
- August 23 – Draft Ten Year Plan presented to GACIT
- August 24 – MPO TAC endorses alternate project funding scenario that would place priorities #1, 3, 5, 8, & 10 into the Ten Year Plan.
- DOT seems supportive but requested that changes be addressed to GACIT directly.

RECOMMENDATION

- Submit a recommendation to GACIT and NHDOT that the Hampton US 1/NH 101 Interchange project (priority #2) be removed from the plan and replaced with:
 - (1)New Castle/Rye – NH1A/1B Shoulders and Sidewalks
 - (3)North Hampton – US 1/NH 111/Atlantic Avenue Intersection capacity and safety improvements
 - (5)Seabrook – US 1 New Zealand Road to Hampton Falls town line capacity expansion
 - (8)Stratham – NH 108/Bunker Hill Avenue signalization
 - (10)Hampstead – NH 121/Derry Rd/Depot Rd signalization

PROJECT FUNDING ALTERNATIVES

Rank	Project #	CityTown	Roads	Scope of Work	Score	Estimated Total Cost	Inflated Total Cost	Scenario 1 Cost	Scenario 2 Cost
1	6001023	New Castle-Rye	NH 1A/1B	Shoulders on NH 1A in Rye from Seavey Creek Bridge to the south end of Odiorne Point State Park & NH 1B from NH1A to the Bridge. Sidewalks on NH1B From Wild Rose Lane to Beach Hill Road, & shoulders Wild Rose Lane to USCG Station.	0.590	\$ 1,978,500	\$ 2,799,532		\$ 2,799,532
2	6197005	Hampton	NH 101/ US 1	NH 101/ US 1 interchange reconfiguration as per the outcome of the feasibility study	0.565	\$ 5,400,000	\$ 7,640,875	\$ 7,640,875	
3	6345011	North Hampton	US 1	Capacity improvements at Intersection of US 1 and Atlantic Avenue (NH 111) including safety improvements for bicycle and pedestrian access	0.563	\$ 744,000	\$ 1,052,743		\$ 1,052,743
4	6409007	Seabrook	East Coast Greenway	Construct multiple use pathway on State owned portion of B&M railroad from Mass state line to Seabrook Station. East Coast Greenway.	0.540	\$ 918,000	\$ 1,298,949		
5	6409004	Seabrook	US 1	Capacity improvements on US 1 between New Zealand Road and the Hampton Falls Town Line.	0.536	\$ 1,552,500	\$ 2,196,752		\$ 2,196,752
6	6197012	Hampton	Winnacunnet Rd (NH 101E) & High Street (NH 27)	The reconstruction of Winnacunnet Road as a "Complete Street" . New sidewalks along both sides of the roadway, travel way and shoulder delineation, new signage, markings & crossings. New Sidewalk construction of the "missing" link between Tobey Road and Five Corners within the existing ROW	0.519	\$ 900,000	\$ 1,273,479		
7	6001018	Seabrook-Hampton	NH 1A	Route 1A Evacuation ITS Improvements: Deployment of Route 1A contra-flow signage, VMS, surveillance, and communications upgrades. From Regional ITS Architecture	0.497	\$ 2,139,000	\$ 3,026,635		
8	6431003	Stratham	NH 108	NH 108 / Bunker Hill Avenue: Signalization And Turn Lanes And Intersection Realignment. Source: 1999-2020 LRP	0.492	\$ 565,200	\$ 799,745		\$ 799,745
9	6345006	North Hampton	US 1	Realign the southern intersection of US 1 and North Road to the south, widen to 5 lanes at the intersection and install a traffic signal. From US 1 Corridor Study.	0.483	\$ 2,645,000	\$ 3,742,614		
10	6195001	Hampstead	NH 121	Improve The Intersection Of NH 121/ Derry Rd/ Depot Rd In Hampstead	0.481	\$ 300,000	\$ 424,493		\$ 424,493
					Total Costs	\$ 17,142,200	\$ 24,255,816	\$ 7,640,875	\$ 7,273,264

REGIONAL GACIT HEARINGS

- Londonderry Town Office – 9/14/2017 (Councilor Pappas)
- Kingston Library – 9/18/2017 (Councilor Prescott)
- Dover City Hall – 9/28/2017 (Councilor Volinsky)
- Newmarket Town Hall – 10/12/2017 (Councilor Prescott)
- Hampton Seashell – 10/16/2017 (Councilor Prescott)