

Project Solicitation and Prioritization

State Ten year plan & MPO Long Range Transportation Plan

Ten Year Plan Guidance From NH DOT

- Adding CON phase to the last two years of the Ten Year Plan
- Target funding for the region is **\$8,055,824**
- **Costs must include inflation at 2.8% per year and 10% indirect costs**
- All RPCs and DOT will use a **common set of project selection criteria**
- Projects must undergo **engineering/cost review** prior to being reviewed by NHDOT. **Can submit projects up to budget target +2 for review.**
- Once final priorities are set, selected MPO projects will be **added to the draft Ten Year Plan as presented**
 - Projects must still go through GACIT process

Process Timeline

- Candidate Projects *due* to NHDOT **November 11, 2022** for engineering/estimate review.
- Finalized prioritized list to NHDOT *due* by **March 31, 2023**
- DOT Required by statute to produce a draft plan by **July 1, 2023**

	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
Solicit Projects												
Project Dev & Classification												
Set Project Selection Process		TAC										
Criteria Weighting Process			TAC									
Short List for Engineering Review				TAC								
Scope & Cost Estimate Development					ENG	ENG	ENG					
Candidate Project List							TAC	POL				
NHDOT for Eng. Review												
Finalize list of Priorities											TAC	POL

Projects for Scope and Cost Estimate

RPC Project Number	City/ Town	Roads	Score	Pavement/ Bridge Condition	Congested Area in CMP?	Higher Crash Location?	Vulnerable to SLR?	Critical link in LTS Study?	Priority in Sidewalk Analysis	Category Rank	Overall Rank
6379021	Portsmouth	US Route 1 Bypass Traffic Circle	59.89	Fair	Yes	Yes	No	No	Low	1	1
6197023	Hampton	High Street (NH 27)	54.30	Poor	Yes	No	Yes	Yes	Mod	1	3
6431001	Stratham	NH 108/NH 33	49.39	Fair	No	Yes	No	No	Low	3	6
6001028	Hampton-Hampton Falls	US Route 1	48.14	Good	No	No	Yes	No	Low	5	8
6197015	Hampton	Ashworth Ave	46.11	Poor	No	Yes	Yes	No	Mod	5	10
6379005	Portsmouth	Maplewood Ave	45.45	Red List Bridge	Yes	No	Yes	Yes	Low	1	11
6383001	Raymond	NH 102/ Blueberry Hill Road	40.19	Good	No	Yes	No	No	Low	5	13
6431007	Stratham	NH 33	38.39	Good	No	No	No	Yes	Low	7	15

Maplewood Avenue Culvert - Portsmouth

- Replace culvert (red list) in poor condition that is susceptible to sea-level rise
- Replace culvert with 100' single span bridge
- Typical section to tie into City streetscape (54' wide)
- Reconstruction of sea wall is necessary
- Sewer and water main replacement are included
- Utility relocation underground is included



Categories	Estimated Cost
Major Items	\$4,756,500
Miscellaneous Items	\$3,025,000
Drainage Items	\$25,000
Traffic Control	\$50,000
Erosion & Sediment Control	\$7,500
Additional Items	\$0
Mobilization & Contingencies	\$786,400
Construction Engineering	\$995,000
Design Engineering	\$1,194,000
Mitigation	\$25,000
Right-of-Way	\$30,000
Base Total	\$12,200,576
Inflation (11 Years)	\$4,319,424
Inflated Total	\$16,520,000

NH 102 at Blueberry Hill Road - Raymond

- The site is the location of several serious crashes due to limited sight distance. Scope will reduce crest on NH 102 & realign intersection with Blueberry Hill Rd.
- 500' of full-depth reconstruction on NH 102
- Lower NH 102 2 feet at crest, average 1 foot decrease on slope.
- 120 feet of reconstruction on Blueberry Hill Road
- Minor ROW anticipated at intersection & no anticipated environmental impacts



Categories	Estimated Cost
Major Items	\$188,983
Miscellaneous Items	\$18,898
Drainage Items	\$10,394
Traffic Control	\$98,065
Erosion & Sediment Control	\$10,394
Additional Items	\$15,000
Mobilization & Contingencies	\$34,173
Construction Engineering	\$44,000
Design Engineering	\$66,000
Mitigation	\$0
Right-of-Way	\$15,000
Base Total	\$561,226
Inflation (11 Years)	\$198,774
Inflated Total	\$760,000

High Street - Hampton

- Raising High Street to address inundation from sea-level rise and storm surge
- 3 foot profile increase for 1200 feet
- Reconstruct driveways to match with roadway
- Address drainage issues caused by roadway higher than driveways
- Expected wetland impacts on eastbound shoulder.



Categories	Estimated Cost
Major Items	\$871,566
Miscellaneous Items	\$87,157
Drainage Items	\$191,744
Traffic Control	\$207,625
Erosion & Sediment Control	\$57,523
Additional Items	\$80,000
Mobilization & Contingencies	\$149,562
Construction Engineering	\$190,000
Design Engineering	\$285,000
Mitigation	\$33,000
Right-of-Way	\$65,000
Base Total	\$2,473,976
Inflation (11 Years)	\$876,024
Inflated Total	\$3,350,000

Portsmouth Traffic Circle - Portsmouth

- Replace existing traffic circle on US 1 Bypass with 2-lane modern roundabout
- Based on design from 2000 Traffic Circle Feasibility Study by NHDOT
- Much of the construction will occur within the existing center island of the traffic circle
- No expected environmental impacts



Categories	Estimated Cost
Major Items	\$2,760,464
Miscellaneous Items	\$220,837
Drainage Items	\$357,756
Traffic Control	\$273,900
Erosion & Sediment Control	\$107,327
Additional Items	\$190,000
Mobilization & Contingencies	\$391,028
Construction Engineering	\$495,000
Design Engineering	\$743,000
Mitigation	\$0
Right-of-Way	\$0
Base Total	\$6,193,550
Inflation (11 Years)	\$2,196,450
Inflated Total	\$8,390,000

US 1 through Hampton-Seabrook Estuary

- Combination of bridging and raising the roadway to offset inundation from sea-level rise and storm surge
- Lengthen existing bridge and add a 1200' bridge
- Raise profile 4 feet along 840 feet of road
- Expected environmental impacts in adjacent estuary
- This is possibly the most expensive option available for this location



Categories	Estimated Cost
Major Items	\$1,423,909
Miscellaneous Items	\$142,391
Drainage Items	\$156,630
Traffic Control	\$424,050
Erosion & Sediment Control	\$46,989
Additional Items	\$41,030,000
Mobilization & Contingencies	\$4,322,397
Construction Engineering	\$5,468,000
Design Engineering	\$5,468,000
Mitigation	\$85,000
Right-of-Way	\$27,000
Base Total	\$65,729,814
Inflation (11 Years)	\$23,300,186
Inflated Total	\$89,030,000

NH 108 Bike/Ped - Stratham

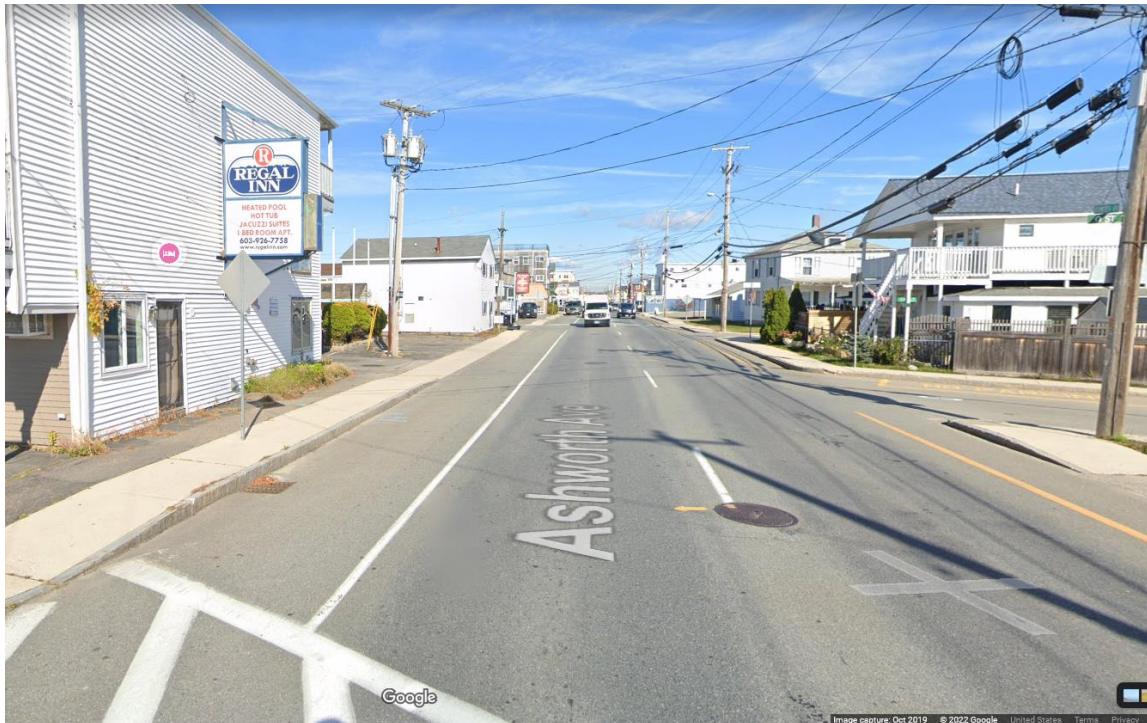
- NH 108 is a high volume and extremely wide roadway and this project will address the limited bike/ped accommodations, including crossings and connections.
- 3,050 feet of sidewalk along NH108 SB and 5,600 feet of sidepath along NH 108 NB
- Mid-block crossings at River Road, Raeder Drive, and at northern Sidewalk terminus (near Scamman Home and Garden)



Categories	Estimated Cost
Major Items	\$583,385
Miscellaneous Items	\$58,339
Drainage Items	\$128,345
Traffic Control	\$85,800
Erosion & Sediment Control	\$38,503
Additional Items	\$205,000
Mobilization & Contingencies	\$109,937
Construction Engineering	\$140,000
Design Engineering	\$210,000
Mitigation	\$0
Right-of-Way	\$50,000
Base Total	\$1,802,859
Inflation (11 Years)	\$637,141
Inflated Total	\$2,440,000

NH1A (Ashworth Ave) Complete Streets- Hampton

- Improve bicycle and pedestrian accommodations between Nudd Ave and Duston Ave
- 8' sidewalk on both sides and 5-6 foot bike lane
- 11' travel lanes (two lanes)
- 20 mid-block crossings with curb bump-outs
- Does not address sea-level rise or other flooding issues.



Categories	Estimated Cost
Major Items	\$1,520,338
Miscellaneous Items	\$106,424
Drainage Items	\$325,352
Traffic Control	\$214,500
Erosion & Sediment Control	\$48,803
Additional Items	\$80,000
Mobilization & Contingencies	\$229,542
Construction Engineering	\$291,000
Design Engineering	\$436,000
Mitigation	\$0
Right-of-Way	\$175,000
Base Total	\$3,808,694
Inflation (11 Years)	\$1,351,306
Inflated Total	\$5,160,000

NH 108/33 Stratham Circle Redesign - Stratham

- Reconfigure traffic circle into modern roundabout intersection
- Layout matches alignment from 2010 Statham Town Center District Study by GPI
- Requires culvert and dam replacements
- Dead end current NB section on southeast part of intersection



Categories	Estimated Cost
Major Items	\$2,756,875
Miscellaneous Items	\$275,688
Drainage Items	\$606,513
Traffic Control	\$460,000
Erosion & Sediment Control	\$181,954
Additional Items	\$1,210,000
Mobilization & Contingencies	\$553,153
Construction Engineering	\$700,000
Design Engineering	\$1,050,000
Mitigation	\$0
Right-of-Way	\$40,000
Base Total	\$8,879,962
Inflation (11 Years)	\$3,120,038
Inflated Total	\$12,000,000

Project Selection

- TAC will need to make recommendations to prioritize and fiscally constrain our list to send to NHDOT for their review.
 - Typically would constrain to \$8,055,824 + 2 projects
 - NHDOT has indicated that it is okay for us to submit all five projects that are under the budget target.
 - Still need to send a prioritized listing

Project Selection

	Draft Rank	Project	Est. Base Cost	Est. Inflated Cost
Submit for DOT Review	1	Portsmouth Traffic Circle (US1 Bypass)	\$6,193,550	\$8,390,000
	2	NH 102 at Blueberry Hill in Raymond	\$561,226	\$760,000
	3	Ashworth Avenue (NH 1A) in Hampton	\$3,808,694	\$5,160,000
	4	Portsmouth Avenue (NH 108) in Stratham	\$1,802,859	\$2,440,000
	5	High Street (NH 27) in Hampton	\$2,473,976	\$3,350,000
Subtotal			\$14,840,305	\$20,100,000
Submit for Info Only	6	Maplewood Avenue Culvert in Portsmouth	\$12,200,576	\$16,520,000
	7	Stratham Circle (NH 108/NH 33)	\$8,879,962	\$12,000,000
	8	US 1 in Hampton	\$65,729,814	\$89,030,000
Subtotal			\$86,810,352	\$117,550,000
Total			\$101,650,657	\$137,650,000

Project Selection

- TAC recommendations on priority list of projects to submit to NHDOT for scope and cost review.
- MPO will finalize list of projects to send to NHDOT at November 9, 2022 meeting.
- NHDOT will complete reviews in February and RPC will finalize Ten Year Plan recommendations by March 31, 2023

Congestion Mitigation & Air Quality Program (CMAQ)

Funding Round this fall – details still forthcoming

What is CMAQ

- Fund projects to help meet the requirements of the Clean Air Act (CAA) and its amendments. CMAQ supports projects that reduce mobile source emissions such as:
 - Diesel engine retrofits and other advanced truck technologies
 - Idle reduction
 - Congestion reduction and traffic flow improvements
 - Freight and intermodal
 - Transportation control measures
 - Transit improvements
 - Bicycle and pedestrian facilities and programs
 - Travel demand management
 - Public education and outreach activities
 - Transportation management associations
 - Carpooling and vanpooling
 - Carsharing
 - Extreme low temperature cold start program
 - Training
 - Inspection and maintenance programs
 - Alternative fuels and vehicles
 - Innovative projects

Guidance from NHDOT

- Funding will cover 4-year period.
- DOT is going to alternate CMAQ and TAP each Ten Year Plan cycle
- FY23-24 Funding Pool: **\$25-30 Million Federal Funding**
- Guidance is similar to 2019 round:
 - **Project sized between \$200,000 and 2,400,000 in federal funds \$3,000,000 total project cost.**
 - 20% non-federal match required
 - Letter of Intent required – **Due 11/4/22**
 - **Mandatory pre-application workshop in December, 2022**
- RPCs will be assisting with air quality analyses
- If your community is considering submitting, please reach out to RPC for consultation.