

# FFY 18-27 STIP Application Cover Sheet



## Portsmouth

Please complete this form and the project prioritization sheets on the following pages.

CONTACT	<b>Contact Information</b>
	Applicant Name: <u>Gary Crosby</u>
	Contact Person (if different): <u>Gary Crosby</u> Title: <u>Town Planner</u>
	Mailing Address: <u>Town Hall, 2200 East Main Road</u>
	City: <u>Portsmouth</u> Zip Code: <u>02871</u>
	Phone: <u>(401) 643-0332</u> Email: <u>gcrosby@portsmouthri.com</u>

CERTIFICATION	<b>Applicant Certification</b>
	 _____ Contact Person Signature Date <u>8/8/2017</u>

CHECKLIST	<b>Submittal Checklist</b>
	<input checked="" type="checkbox"/> 3 collated copies of complete STIP submittal package, including:
	<input checked="" type="checkbox"/> Project Prioritization cover sheet
	<input checked="" type="checkbox"/> New Project Application Form for each new or updated project
	<input checked="" type="checkbox"/> 2-page narrative on evaluation criteria
	<input checked="" type="checkbox"/> 8.5" x 11" PDF map of project location
	<input checked="" type="checkbox"/> Email a copy of complete STIP submittal package to <a href="mailto:Michael.DAlessandro@doa.ri.gov">Michael.DAlessandro@doa.ri.gov</a> or provide on a CD
	<input checked="" type="checkbox"/> Submit complete STIP submittal package to:
Rhode Island Statewide Planning Program ATTN: Michael D'Alessandro One Capitol Hill Providence, RI 02908	

**ALL APPLICATIONS ARE DUE BY 3:00PM ON FRIDAY AUGUST 11, 2017**

# Project Prioritization

## Portsmouth



PROJECT PRIORITIZATION	Priority	Earliest Funded Year RIDOT/RIPTA 18-27 Ten Year Plan	Project Name	STIP ID	Bridge Group
	Low	2018	Rt 24 (Rt 114 to Hummocks Ave)	1286	Non-Bridge
	High*	2022	Rt 114, West Main Rd (John Kesson to Mill Ln)	1360	Non-Bridge
	Medium	2023	Rt 114, West Main Rd (Rt 24 to Turnpike Ave)	1376	Non-Bridge
	High	2023	Sprague St (East Main Rd to Bristol Ferry Rd/Turnpike Ave)	1377	Non-Bridge
	High	2018	Rt 138, East Main Rd & Park Ave (East Main - Turnpike Ave to Boyds Ln and Park Ave - Rt 138 to Norseman Drive)	1378	Non-Bridge
	High	2019	Rt 138, East Main Rd (Turnpike Ave to Hedley Ave)	1379	Non-Bridge
	High (1)	2021	Rt 138, East Main Rd (Hedly St to Middletown T/L)	1380	Non-Bridge
	Medium	2024	Aquidneck Island Bikeway - Melville Connector	5161	Non-Bridge
	Medium	2023	Mount Hope Bay Bicycle Improvements	5162	Non-Bridge
	High	2021	East Main Road Sidewalks	5164	Non-Bridge
	High	2018	Sprague Street Sidewalks	5166	Non-Bridge
	High	2022	Stone Bridge Rehabilitation Study - Island Park	5171	Non-Bridge
	Low	2018	Barker Bridge, RI 24 Ramp C at Ramp B	6409	Bridge Group 15
	Low	2018	Freeborn Street NB at RI 24 NB	6410	Bridge Group 15
	Low	2018	Freeborn Street SB at RI 24 SB	6411	Bridge Group 15
	Low	2018	Lawton Valley Bridge at RI 114 W Main Rd	6412	Bridge Group 15
	Low	2018	Lawton Valley Brook Bridge at RI 114 W Main Rd	6413	Bridge Group 15
	Low	2018	Mint Water Brook Culvert at RI 138 E Main Rd	6414	Bridge Group 15
	Low	2018	Motts Brook NB Bridge at RI 24 NB	6415	Bridge Group 15
Low	2018	Motts Brook SB Bridge, RI 24 SB & 114	6416	Bridge Group 15	
Low	2018	Sprague Street Bridge at RI 24	6417	Bridge Group 15	
High	2021	The Cove Bridge, Hummocks Point Rd at tidal inlet	6418	Bridge Group 44	
Medium	2027	Boyd Lane NB	6828	Bridge Group 81A	
Medium	2027	Boyd Lane SB	6829	Bridge Group 81A	

# Project Prioritization

## Portsmouth



<b>PROJECT PRIORITIZATION</b>	<b>Priority</b>	<b>Earliest Funded Year RIDOT/RIPTA 18-27 Ten Year Plan</b>	<b>Project Name</b>	<b>STIP ID</b>	<b>Bridge Group</b>
<b>PROJECT PRIORITIZATION</b>	Low	2027	Turnpike Ave NB	6830	Bridge Group 81A
	Low	2027	Turnpike Ave SB	6831	Bridge Group 81A
	Low	2018	Portsmouth Facility	7904	Non-Bridge
	Medium	2021	East Main Road Shared Use Path - Hedly St to Enterprise Drive	9005	Non-Bridge

# FFY 18-27 STIP Application/Project Priority Form



Portsmouth

## Newly Proposed Projects *(Please use an additional sheet if necessary)*

PROJECT PRIORITIZATION	Priority	Project Name	STIP ID
	High*	RT. 114, West Main Road (John Kesson to Mill Lane)	1360
	High	Roadway Drainage Improvements - Park Avenue (new considerations)	

# FFY 18-27 Project Application Form



## State Transportation Improvement Program

<b>CONTACT</b>	<b>Contact Information</b>
	Applicant Name <u>Gary Crosby</u>
	Contact Person (if different) _____ Title <u>Town Planner</u>
	Mailing Address <u>Town Hall, 2200 East Main Road</u>
	City <u>Portsmouth</u> Zip Code <u>02871</u>
Phone <u>(401) 643-0332</u> Email <u>gcrosby@portsmouthri.com</u>	

<b>PROJECT INFORMATION</b>	<b>Type of Project</b> <i>select all that apply</i>			
	<input type="checkbox"/> Bridge	<input checked="" type="checkbox"/> Pavement	<input type="checkbox"/> Drainage	<input type="checkbox"/> Planning
	<input checked="" type="checkbox"/> Traffic	<input type="checkbox"/> Transit	<input type="checkbox"/> Bicycle	<input type="checkbox"/> Pedestrian
	<input type="checkbox"/> Transportation Enhancement	<input type="checkbox"/> Other <u>Enter Other Project Type</u>		
	<b>Project Description</b>			
	Was this project previously submitted during the FFY17-25 STIP development process? <input checked="" type="radio"/> Yes / <input type="radio"/> No			
	<i>If you selected no, please continue to the "Current Project Title" Section</i>			
	<i>If you selected yes, please answer the following:</i>			
	What was the Project Title? <u>Rt. 114, West Main Rd. (John Kesson Lane to Mill Lane)</u>			
	What was the TIP ID# assigned to the project at that time (4-digit number)? <u>1360</u>			
Current Project Title <u>Rt. 114, West Main Road (John Kesson Lane to Mill Lane)</u>				
Location by Street Name <u>Rt. 114, West Main Road</u>				
Project Limits - From <u>John Kesson Lane (Middletown)</u> To <u>Mill Lane (Portsmouth)</u>				
<i>Please include an 8.5" x 11" map of the site, indicating project limits.</i>				
Provide a brief description of the proposed project:				
<p>Mill and overlay the asphalt surface, re-stripe and build the required ADA wheelchair ramp improvements (basic paving) - approximately 2.4 miles of roadway surface - Budgeted cost of \$3.2M.</p> <p>Intersection improvements to intersection of Union Street and RT. 114, West Main Road. Budgeted cost of \$1.0M. These costs to cover intersection construction and associated utility, storm water improvements and other ancillary costs associated with intersection improvements.</p>				

Describe need for proposed project:

Moving Ahead for Progress in the 21st Century (MAP-21), the two-year bill authorizing federal transportation programs, requires states to develop plans that specifically address how they will improve and sustain the conditions of roads and bridges on at least the National Highway System (NHS). Map-21 requires states to set targets for the physical condition of highways and bridges and develop asset management plans outlining how they will achieve and sustain those targets into the future. This project (STIP ID# 1360) is listed in the FFY 17-25 TIP and in this FFY 18-27 STIP as a result of RIDOT's asset management planning process in response to MAP-21. The need for this project is self-evident by virtue of the fact that it is listed herein.

This project is being resubmitted with reduced scope as a result of discussions between RIDOT and the Town of Portsmouth wherein the town expressed urgent need for the repaving to be done sooner than its 2022 completion date. It is the Town's hope that an acceptable reduction in scope (splitting out limited sidewalk replacement from the larger scope) will result in the roadway paving being completed sooner.

Describe anticipated municipal or state transportation network or economic development benefits:

Benefits to the state transportation network & economic development were factored in as part of RIDOT's asset management planning process and are self-evident by virtue of the fact that this project has been included and scheduled in the STIP.

Note: The required discussion regarding Evaluation Criteria has not been submitted as this is a re-scoping of an original project proposed by RIDOT, not a new project submitted by the Town. Presumably the evaluation criteria for the project were already factored into asset management decisions made by RIDOT.

Is the project consistent with the local Comprehensive Plan?  Yes  No

Has the project been the subject of a properly conducted municipal public hearing?  Yes  No

Is the project on the Federal Aid System?  Yes  No

Is the project on the National Highway System?  Yes  No

CRITERIA

**Evaluation Criteria**

Please address the following topics as they relate to the project. Refer to "An Overview of TIP Guiding Principles" for more information. Submission **must not exceed 2 pages**, single-spaced, 12-point font.

- |                         |                                   |
|-------------------------|-----------------------------------|
| 1. Mobility Benefits    | 5. Supports Local and State Goals |
| 2. Cost Effectiveness   | 6. Safety and Security            |
| 3. Economic Development | 7. Equity                         |
| 4. Environmental Impact |                                   |

PROJECT ESTIMATES

**Project Estimates**

	ROW	Study	Design	Construction	Total
Estimated Project Costs				\$ 4,200,000.00	\$ 4,200,000.00

Amount Requested through TIP Process \$ 4,200,000.00

Is there funding from other sources committed to this project?  Yes  No

Source	Amount
Total	\$ 0.00

Estimated date of construction \_\_\_\_\_

CERTIFICATION

**Municipal Applications**

I attest that the information provided on this application is true and accurate.



*11 AUG 2017*

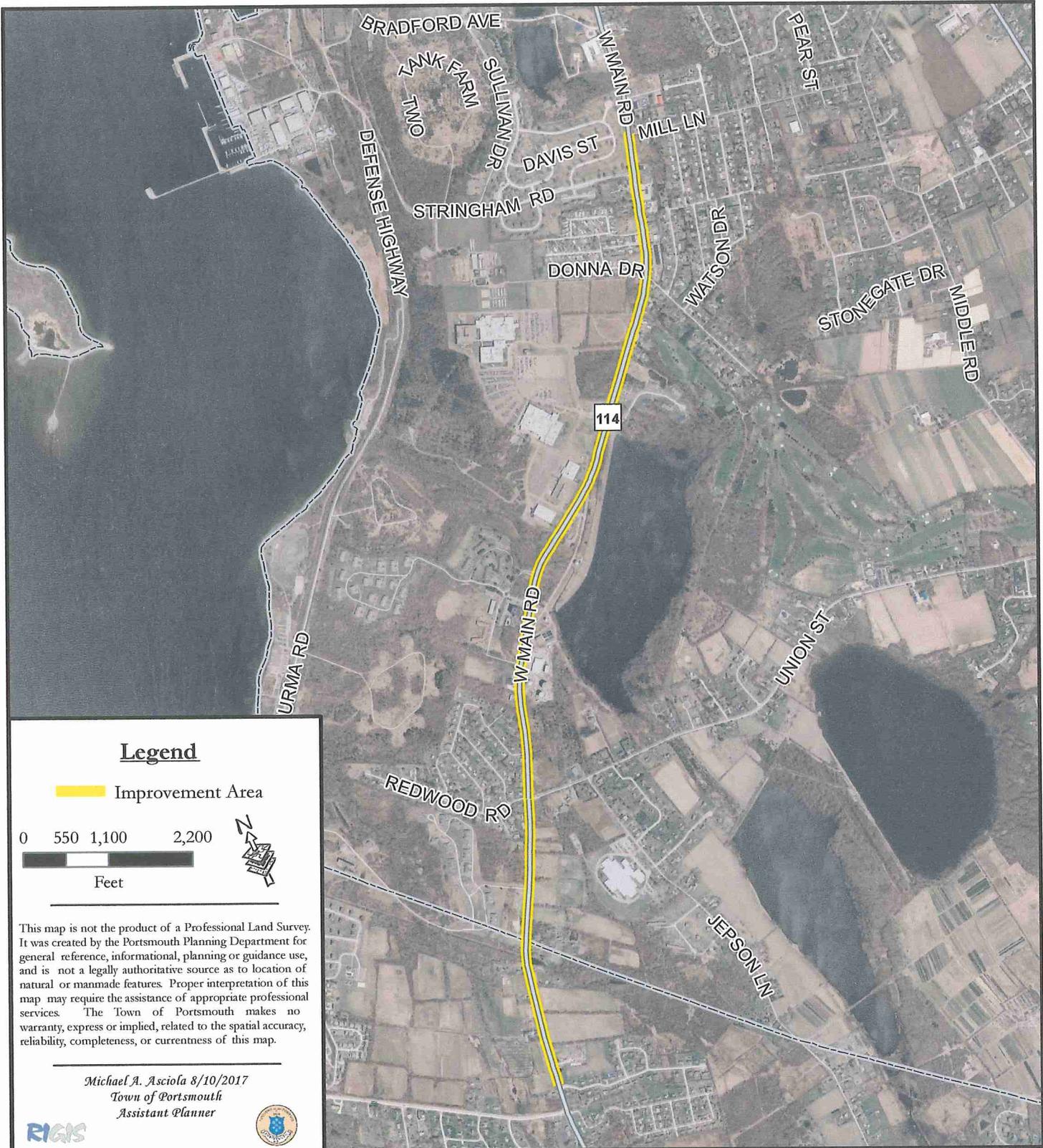
\_\_\_\_\_  
Chief Executive or Elected Municipal Official Signature      Date

**Non-Municipal Applications**

I attest that the municipality in which the project is located has been notified of the proposed project.

\_\_\_\_\_  
Chief Executive or Elected Municipal Official Signature      Date

**ALL APPLICATIONS ARE DUE BY 3:00PM ON FRIDAY, AUGUST 11, 2017**



**Legend**

 Improvement Area

0 550 1,100 2,200

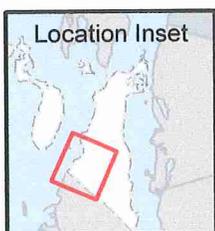


Feet



This map is not the product of a Professional Land Survey. It was created by the Portsmouth Planning Department for general reference, informational, planning or guidance use, and is not a legally authoritative source as to location of natural or manmade features. Proper interpretation of this map may require the assistance of appropriate professional services. The Town of Portsmouth makes no warranty, express or implied, related to the spatial accuracy, reliability, completeness, or currentness of this map.

Michael A. Asciola 8/10/2017  
 Town of Portsmouth  
 Assistant Planner



**Route 114 West Main Road (John Kesson Lane - Mill Lane)**  
**Basic Pavement Improvements**  
**New Project Application**  
**RI Transportation Improvement Program (STIP)**  
**Federal Fiscal Years 2018 - 2027**



# FFY 18-27 Project Application Form



## State Transportation Improvement Program

<b>CONTACT</b>	<b>Contact Information</b>
	Applicant Name <u>Gary Crosby</u>
	Contact Person (if different) _____ Title <u>Town Planner</u>
	Mailing Address <u>Town Hall, 2200 East Main Road</u>
	City <u>Portsmouth</u> Zip Code <u>02871</u>
Phone <u>(401) 643-0332</u> Email <u>gcrosby@portsmouthri.com</u>	

<b>PROJECT INFORMATION</b>	<b>Type of Project</b> <i>select all that apply</i>			
	<input type="checkbox"/> Bridge	<input type="checkbox"/> Pavement	<input checked="" type="checkbox"/> Drainage	<input type="checkbox"/> Planning
	<input type="checkbox"/> Traffic	<input type="checkbox"/> Transit	<input type="checkbox"/> Bicycle	<input type="checkbox"/> Pedestrian
	<input type="checkbox"/> Transportation Enhancement	<input type="checkbox"/> Other <u>Enter Other Project Type</u>		
	<b>Project Description</b>			
	Was this project previously submitted during the FFY17-25 STIP development process? <input checked="" type="radio"/> Yes / <input type="radio"/> No			
	<i>If you selected no, please continue to the "Current Project Title" Section</i>			
	<i>If you selected yes, please answer the following:</i>			
	What was the Project Title? <u>Roadway Drainage Improvements - Park Avenue</u>			
	What was the TIP ID# assigned to the project at that time (4-digit number)? _____			
Current Project Title <u>Roadway Drainage Improvements - Park Avenue</u>				
Location by Street Name <u>Park Avenue</u>				
Project Limits - From <u>Boyd's Lane</u> To <u>Island Avenue</u>				
<i>Please include an 8.5" x 11" map of the site, indicating project limits.</i>				
Provide a brief description of the proposed project:				
<p>This is a resubmission of a project submitted in the FFY 17-25 TIP requesting that a new set of circumstances be taken into consideration when evaluating this project.</p> <p>See attached.</p>				

Describe need for proposed project:

See attached.

Describe anticipated municipal or state transportation network or economic development benefits:

See attached.

Is the project consistent with the local Comprehensive Plan?  Yes  No

Has the project been the subject of a properly conducted municipal public hearing?  Yes  No

Is the project on the Federal Aid System?  Yes  No

Is the project on the National Highway System?  Yes  No

### Evaluation Criteria

Please address the following topics as they relate to the project. Refer to "An Overview of TIP Guiding Principles" for more information. Submission **must not exceed** 2 pages, single-spaced, 12-point font.

1. Mobility Benefits
2. Cost Effectiveness
3. Economic Development
4. Environmental Impact
5. Supports Local and State Goals
6. Safety and Security
7. Equity

### Project Estimates

	ROW	Study	Design	Construction	Total
Estimated Project Costs		\$ 75,000.00			\$ 75,000.00

Amount Requested through TIP Process **\$ 75,000.00**

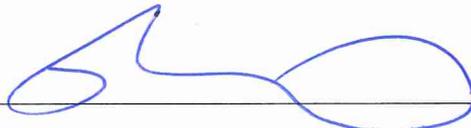
Is there funding from other sources committed to this project?  Yes  No

Source	Amount
Total	\$ 0.00

Estimated date of construction \_\_\_\_\_

### Municipal Applications

I attest that the information provided on this application is true and accurate.



11 AUG 2017

Chief Executive or Elected Municipal Official Signature Date

### Non-Municipal Applications

I attest that the municipality in which the project is located has been notified of the proposed project.

Chief Executive or Elected Municipal Official Signature Date

**ALL APPLICATIONS ARE DUE BY 3:00PM ON FRIDAY, AUGUST 11, 2017**

**Project Resubmittal**  
**State Transportation Improvement Program (STIP)**  
**Applicant: Town of Portsmouth**  
**Project Title: Roadway Drainage Improvements – Park Avenue**

**Project Information**

**Provide a brief description of the proposed project:**

This engineering study project is designed to address roadway drainage problems along a ½ mile section of Park Avenue in Island Park, Portsmouth, with particular attention to projected sea level rise in the coming decades. The study is designed in four phases. Phase one consists of the identification of the current area of flooding under varying conditions of tide heights, storm water runoff, storm surge and outfall discharge impairment due to beach sand deposition. This phase will also include a detailed engineering survey of the condition and functionality of the infrastructure in the study area, including the storm drain system, roadway/sidewalk surfaces and the seawall. Phase two will be to further define the varying conditions that produce surface flooding in the study area and to quantify the probabilities of occurrence of such flooding under current and near-future conditions. Phase three will re-define the flooded area and the probabilities of occurrence taking into account increments of sea level rise and the timeframes for such rise. Lastly, phase four of the study will recommend alternatives, strategies and engineered responses to the current and future predicament of surface flooding along Park Avenue in a strategic plan to include cost estimates, potential funding sources and timelines for implementation. The plan will also provide a detailed description of future flooding conditions and probabilities to be expected if the plan is not implemented.

**Describe the need for the proposed project:**

The flooding of Park Avenue to near impassability occurs on an all too regular basis, even under moderate rainfall and tide height conditions. The storm drain system, as it is currently configured simply does not function properly a high percentage of the time. This flooding, when it occurs, disrupts economic activity, emergency services and school bus routes to a neighborhood of 700+ homes and leaves a population of 1200 stranded with only one exit from the neighborhood in an emergency.

Recent town staff observation reveals that via back flooding of the outfall, a 4.8' high tide along Park Avenue brings the water level to approximately one inch below the top of two catch basin grates (i.e., the roadway surface). See the attached map for their location. This with no wave action and no storm water input. This scenario is simply the effect of the high tide pushing back into the storm drain system. A look at the NOAA tide chart for 2018 reveals that this scenario will occur at least one of the two high tides per day on **10** days the year. Any storm water input on top of this situation has nowhere to go but flood Park Avenue.

With a one foot sea level rise, which NOAA and the US Army Corp of Engineers predict will be achieved in years 2035/2040 respectively, a 3.8 foot high tide, which will duplicate the scenario described above, will occur at least one of the two high tides per day on **258** days during the year. In other words, in 20-25 years, which is the planning timeframe for the current update of the Portsmouth Comprehensive Community Plan, the high tide will be at street level or above on a portion of Park Avenue twice a day **70%** of the days of the year. (Note this is new data since the previous submission and a significant increase in the number of days with 3.8' or greater high tides.) And of course, the storm drains cease to function as a viable system way before the sea rises in the catch basin to roadway surface level. The need for corrective action cannot be overstated and this proposed roadway drainage improvements study is a solid first step.

**New set of circumstances to be taken into consideration when evaluating this project resubmission:**

Since this project was submitted in the FFY 17-25 STIP (and not selected for funding), NOAA, as acknowledged by CRMC, has published a Technical Report (NOS CO-OPS 083 – January 2017) which lends a new sense of urgency to this project proposal. The report projects that sea levels in the Northeast will rise at a significantly faster rate than the global average and gives a range of possible scenarios, from the low of 1 foot of sea level rise by 2100 to the worst-case scenario of 8.2 feet globally with an additional 0.98 feet to 3.28 feet for the New England region. This brings the maximum sea level rise in the Northeast to 11.5 feet by 2100. This is a significant upward revision of NOAA's previous prediction upon which the Town's previous project submission was based and should be considered a new set of circumstances in re-evaluation of this project resubmittal.

On June 14, 2017 the above described Park Avenue drainage situation, that which this project resubmittal is designed to address, was presented to the Rhode Island Executive Climate Change Coordinating Council (RIEC<sup>4</sup>) as part of a program titled “Building Resilience on Aquidneck Island.” The presentation was well received with some members of the Council indicating this was precisely the kind of local targeted project that is much needed not just here but in other locations around the state. While short of an outright endorsement, Portsmouth believes these favorable comments by the RIEC<sup>4</sup> constitute a new circumstance to be taken into consideration in re-evaluating this project resubmittal.

**Describe anticipated municipal or state transportation network or economic development benefits:**

Studying this infrastructure failure and developing engineering responses to the predicament will not so much provide anticipated benefits to the roadway network or to economic development in Portsmouth as it will be the first critical step in averting the potential loss of an entire neighborhood to the effects of sea level rise and the possible dislocation of 10% of Portsmouth’s population.

**Project Resubmittal**  
**State Transportation Improvement Program (STIP)**  
**Applicant: Town of Portsmouth**  
**Project Title: Roadway Drainage Improvements – Park Avenue**

**Evaluation Criteria**

Mobility Benefits –

- Project is the first step in ensuring the continuous passage of vehicle and pedestrian traffic along Park Avenue in future decades during times of high tide.
- Projects has a direct everyday effect on the future mobility of approximately 1200 residents.
- Without corrective action, Park Avenue may cease to function as Major Collector in the state and municipal highway system.
- Without corrective action connectivity in the state and municipal highway system will be reduced.

Cost Effectiveness –

- Cost of study now is trivial compared to potential impacts of flooding in future decades.
- Study will improve resilience to the impacts of climate change.
- Project implements a major section of the Town’s Natural Hazard Mitigation Plan.
- Outcomes of project will improve the efficiency of the storm drain system and local on-site water treatment systems in the study area.

Economic Development –

- Project has the potential to improve access to jobs, schools, business activity and residential neighborhoods.
- Project will improve access for tourist and recreational activity in the area.
- Project will preserve prior investment by the state and the municipality in infrastructure in the area.

#### Environmental Impact –

- Project enhances water quality by ensuring the functionality of storm water and wastewater systems in the study area during times of flooding due to high tides and potential sea level rise.
- Project protects access to important natural resources including the beaches, salt marshes and the waters of Narragansett Bay.

#### Supports Local and State Goals

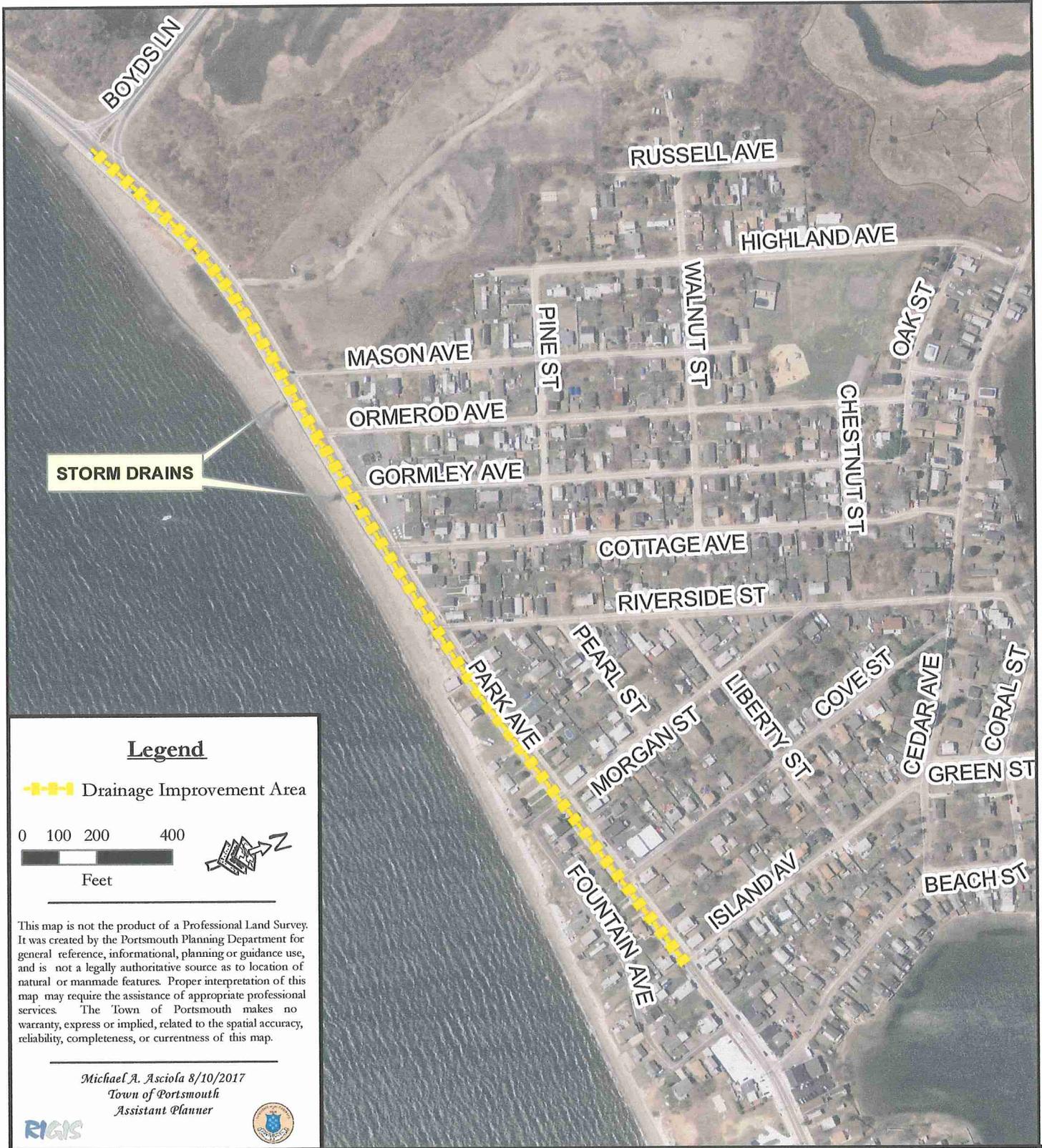
- The project implements specific actions of the Transportation, Natural Hazards and Climate Change, Economic Development and Services and Facilities Elements of the Portsmouth Comprehensive Community Plan.
- The project implements specific actions of the Portsmouth Natural Hazard Mitigation Plan.
- Project enjoys overwhelming public support and is given the highest priority in this STIP cycle by the Portsmouth Town Council.

#### Safety and Security –

- This project will improve not only everyday access to the Island Park neighborhood, but access to the neighborhood by emergency vehicles and state and local public works personnel.
- Project will work to preserve one of only two evacuation routes for Island Park.
- Project will increase both vehicle and pedestrian safety in the study area.

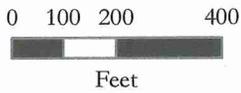
#### Equity –

- This project will work to ensure continued access to Island Park, one of few neighborhoods in Portsmouth affordable to middle and low income residents and a significant contributor to the housing diversity in the community.



**Legend**

Drainage Improvement Area



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Michael A. Asciola 8/10/2017  
 Town of Portsmouth  
 Assistant Planner



**Roadway Drainage Improvements - Park Avenue**

**Project Resubmittal  
 RI Transportation Improvement Program (STIP)  
 Federal Fiscal Years 2018 - 2027**

