

RIGIS, URI EDC

Sea Level Rise Scenarios Affecting Roads

Town of Jamestown

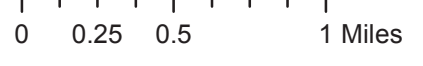
Map Created: 8/11/2016

Map Legend

NOTES:
The Sea Level Rise (SLR) Inundation modified bathtub model does not take into consideration future erosion or storm surge.

Includes Hillshade from USGS 2011 LiDAR

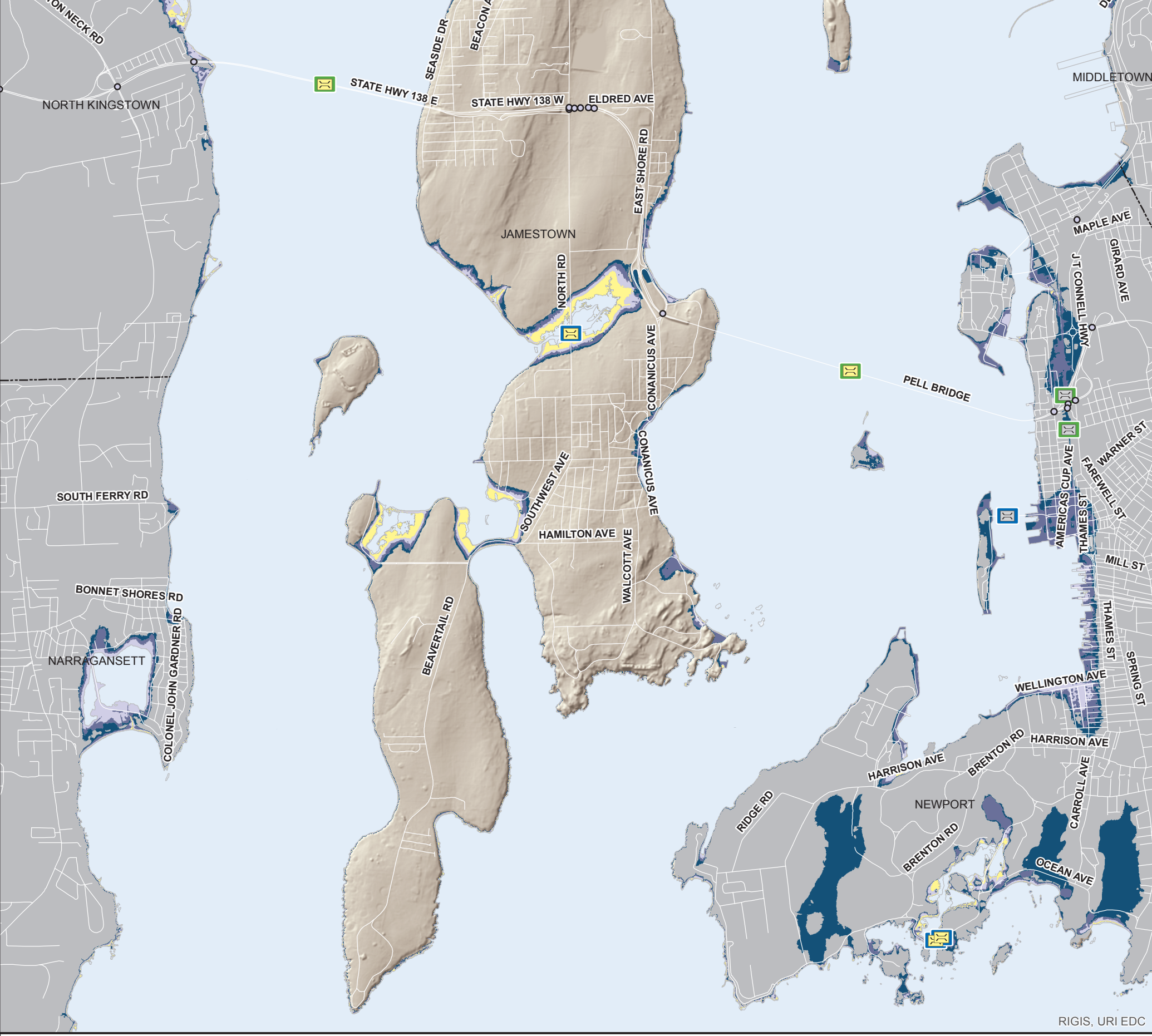
- Current Mean Higher High Water
- 1Ft Sea Level Rise
- 3Ft Sea Level Rise
- 5Ft Sea Level Rise
- 7Ft Sea Level Rise
- City and Town Boundaries
- Potentially Affected Roads
- Roads



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Relative Road Vulnerability to Sea Level Rise

Jamestown			Linear Feet of Road Inundated At:										
Muni Rank	State Rank	Road Name	1 Foot of SLR	3 Feet of SLR	5 Feet of SLR	7 Feet of SLR	Total Linear Feet	Hazard Score	Evacuation Route	Intermodal Facility	Functional Classification	System Score	Vulnerability Score
1	4	CONANICUS AVE			1,558	389	1,946	4.30	Yes	Yes	Minor Art.	3.66	7.96
2	6	NORTH RD		1,257	328	207	1,791	3.96	Yes	Yes	Minor Art.	3.80	7.76
3	100	EAST SHORE RD			529	1,349	1,878	2.06	Yes	No	Minor Art.	2.96	5.01
4	108	BEAVERTAIL RD			1,038	651	1,689	2.73	Yes	No	Major Coll.	2.20	4.93
5	163	FORT GETTY RD		332	658	405	1,395	2.84	Yes	No	Local	1.46	4.31
6	172	SEASIDE DR			830	608	1,438	2.65	Yes	No	Local	1.60	4.25
7	180	PELL BRIDGE	6	10	7	7	30	1.50	No	No	Freeways	2.70	4.20
8	181	STATE HWY 138 E	3	7	7	9	27	1.50	No	No	Freeways	2.70	4.20
9	182	STATE HWY 138 W	6	11	7	10	34	1.50	No	No	Freeways	2.70	4.20
10	287	RACQUET RD			574	145	719	3.10	No	No	Local	0.60	3.70
11	315	DUMPLING DR		593	130	101	823	2.94	No	No	Local	0.60	3.54
12	343	MAPLE AVE		749	191	219	1,158	2.79	No	No	Local	0.60	3.39
13	395	NARRAGANSETT AVE			262	36	299	1.50	Yes	No	Local	1.66	3.16
14	414	ON RAMP RI-138 E				637	637	1.50	No	Yes	Local	1.60	3.10
15	489	OFF RAMP CONANICUS AVE				439	439	1.50	No	No	Major Coll.	1.20	2.70
16	736	BAY VIEW DR				194	194	1.50	No	No	Local	0.60	2.10
17	737	EMERSON RD			106	81	186	1.50	No	No	Local	0.60	2.10
18	738	FERRY WHARF				96	96	1.50	No	No	Local	0.60	2.10
19	739	HAWTHORNE RD				11	11	1.50	No	No	Local	0.60	2.10
20	740	KNOWLES CT			56	73	128	1.50	No	No	Local	0.60	2.10
21	741	LONGFELLOW RD			125	85	210	1.50	No	No	Local	0.60	2.10
22	742	MARINE AVE		13	78	64	155	1.50	No	No	Local	0.60	2.10
23	743	PARK AVE			95	405	500	1.50	No	No	Local	0.60	2.10
24	744	SEAVIEW AVE				282	282	1.50	No	No	Local	0.60	2.10
25	745	SERVICE RD				519	519	1.50	No	No	Local	0.60	2.10
26	746	SPRING ST				15	15	1.50	No	No	Local	0.60	2.10
27	1,346	PIERCE AVE			106	95	201	1.50	No	No	Local	0.60	2.10
		TOTAL LINEAR FEET	16	2,971	6,579	7,035	16,601						



Sea Level Rise Scenarios Affecting Bridges

Town of Jamestown

Map Created: 8/11/2016

Map Legend

NOTES:
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 Includes Hillshade from USGS 2011 LiDAR

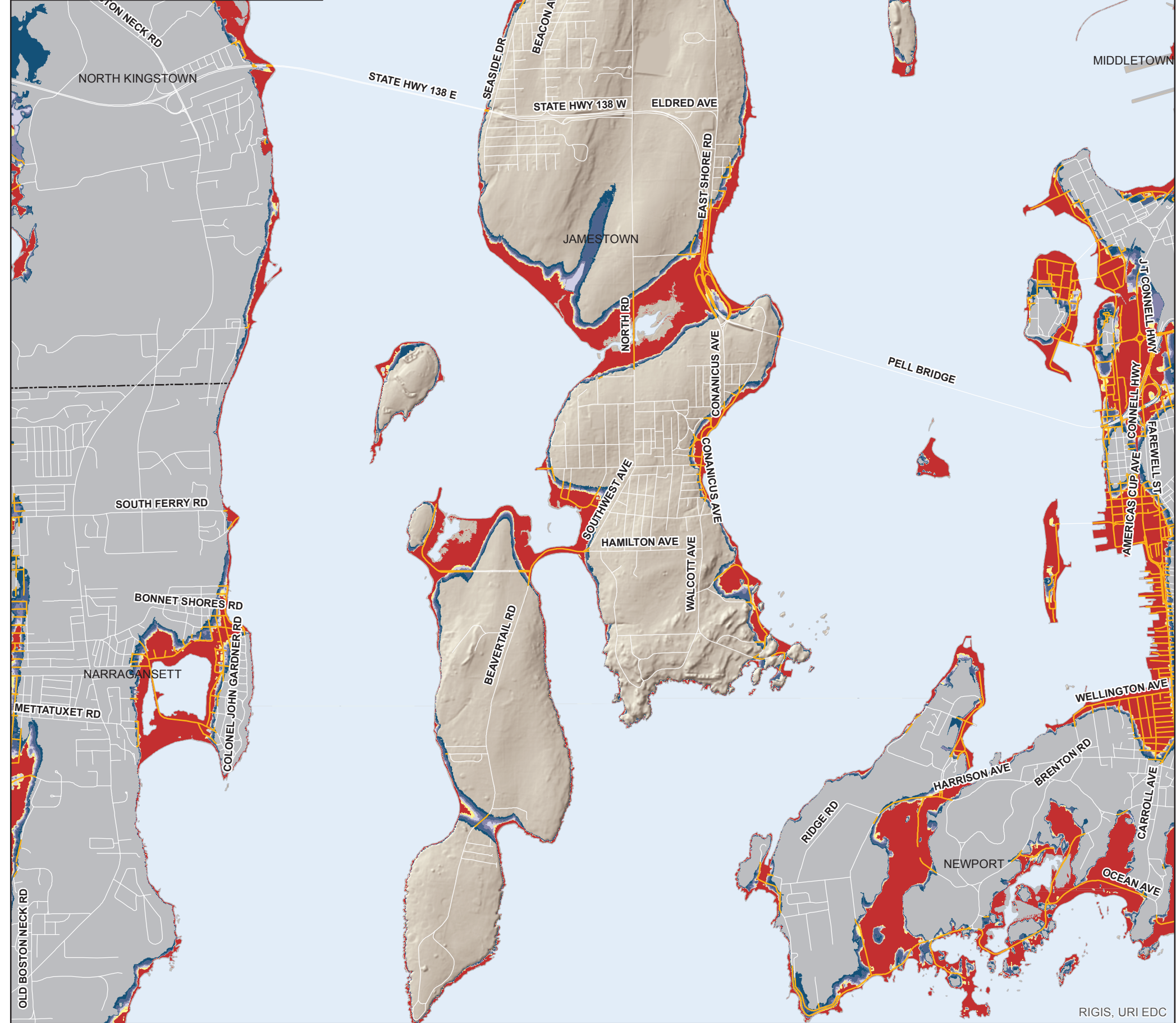
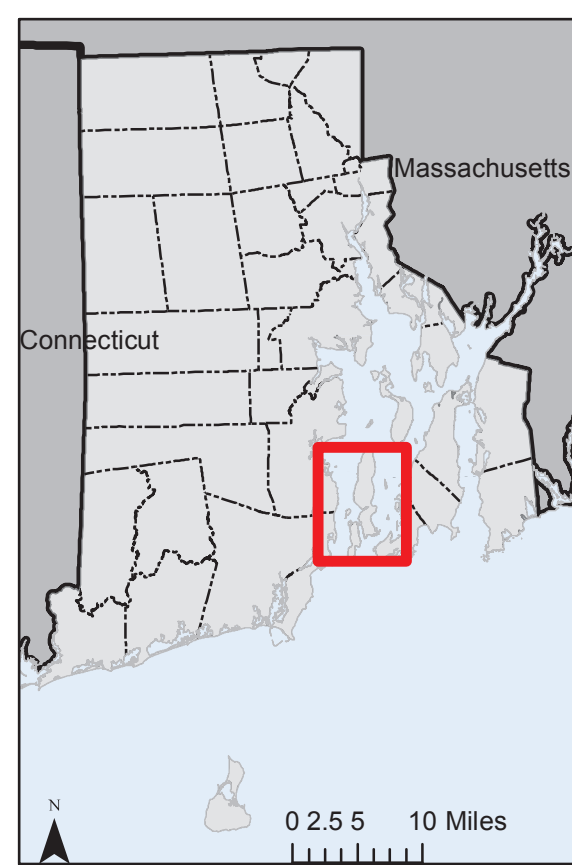
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- Bridge Accessible
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0 0.25 0.5 1 Miles

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Bridges Possibly Affected by Sea Level Rise in the Town of Jamestown

Mun. Rank	State Rank	Bridge Name	Facility Carried	Feature Intersected	Inches of Freeboard Relative to 7FtSLR	Terrain Crossed	Landing Access	Haz. Score	Intermodal Facility	Evacuation Route	AADT	Sys. Score	Vulnerability Score
1	4	Round Swamp	NORTH MAIN RD	TIDAL INLET	-11	Water	Problem	4.50	Yes	Yes	5,300	4.10	8.60
2	11	Newport Bridge Authority	RI 138	EAST PASSAGE NARR BAY	-84	MHHW	Access	3.00	Yes	Yes	20,010	5.00	8.00
3	25	Jamestown - Verrazzano	RI 138	WEST PASSAGE NARRA BAY	-84	MHHW	Access	3.00	Yes	No	33,533	4.00	7.00
4	31	Conanicut	EAST SHORE RD	BROOK	8	Water	Problem	4.10	No	Yes	1,100	2.50	6.60



100 Year Storm Surge Event Plus Sea Level Rise Scenarios Affecting Roads

Town of Jamestown

Map Created: 8/11/2016

Map Legend

NOTES:

The Sea Level Rise (SLR) Inundation modified bathtub model does not take into consideration future erosion or storm surge.

Includes Hillshade from USGS 2011 LiDAR

- Current Ponds & Mean Higher High Water
- 100-Year Storm Event
- 100-Year Plus 1 ft. of SLR
- 100-Year Plus 2 ft. of SLR
- 100-Year Plus 3 ft. of SLR
- 100-Year Plus 5 ft. of SLR
- 100-Year Plus 7 ft. of SLR
- City and Town Boundaries
- Potentially Affected Roads
- Roads

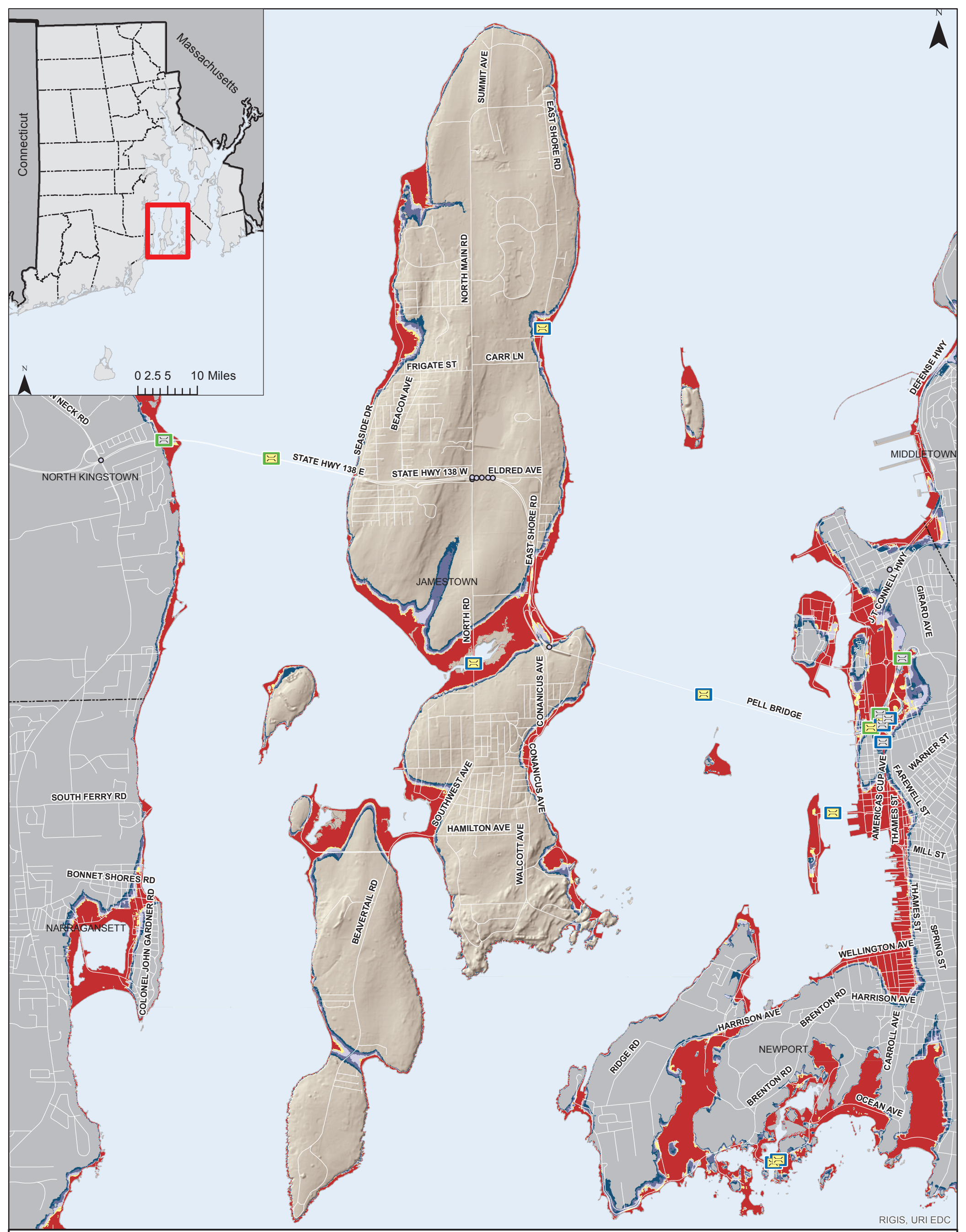
0 0.25 0.5 1 Miles



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Relative Road Vulnerability to 100-Year Storm Surge Event Plus Sea Level Rise														
Jamestown			Linear Feet Inundated During 100 Year Surge Event Plus:											
Muni. Rank	State Rank	NAME	No SLR	1 Foot of SLR	3 Feet of SLR	5 Feet of SLR	7 Feet of SLR	Total Linear Feet	Haz. Score	Evac. Route	Intermodal Facility	Functional Classification	Sys. Score	Vulnerability Score
1	10	STATE HWY 138 W	1,264	845	290	145	110	2,653	4.42	No	Yes	Freeways	4.12	8.54
2	15	NORTH RD	2,060	52	98	95	92	2,398	4.55	Yes	Yes	Minor Art.	3.80	8.35
3	30	CONANICUS AVE	2,720	133	227	62	59	3,201	4.71	Yes	Yes	Minor Art.	3.28	7.99
4	31	STATE HWY 138 E	1,112	937	381	175	115	2,719	4.32	No	Yes	Freeways	3.66	7.98
5	68	EAST SHORE RD	4,577	245	346	342	374	5,884	4.31	Yes	No	Minor Art.	2.88	7.19
6	81	JOHN C ELDRED PKWY		438	751	292	182	1,662	3.28	No	Yes	Freeways	3.69	6.97
7	146	ON RAMP RI-138 W	364	51				415	4.82	Yes	No	Local	1.48	6.30
8	147	NARRAGANSETT AVE	504	49	95	85	89	822	3.76	Yes	No	Minor Coll.	2.53	6.29
9	152	BEAVERTAIL RD	2,145	63	93	63	601	2,965	4.06	Yes	No	Major Coll.	2.19	6.25
10	154	SEASIDE DR	3,770	104	142	86	186	4,288	4.63	Yes	No	Local	1.60	6.23
11	157	ON RAMP RI-138 E	1,657	81	73	53	49	1,914	4.61	No	Yes	Local	1.60	6.21
12	193	OFF RAMP CONANICUS AVE	2,191	292	70	58	52	2,662	4.76	No	No	Major Coll.	1.20	5.96
13	502	FERRY WHARF	98					98	5.00	No	No	Local	0.60	5.60
14	503	PARK AVE	700					700	5.00	No	No	Local	0.60	5.60
15	1,036	SERVICE RD	1,928	39	44	42	35	2,088	4.76	No	No	Local	0.81	5.56
16	1,205	PELL BRIDGE	48	7	10	10	14	89	2.57	No	No	Freeways	2.70	5.27
17	1,316	SEAVIEW AVE	835	39	64	36	36	1,011	4.47	No	No	Local	0.60	5.07
18	1,330	MAPLE AVE	1,363	53	72	106	66	1,659	4.44	No	No	Local	0.60	5.04
19	1,453	FORT GETTY RD	2,439	237	585	1,170	731	5,162	3.74	Yes	No	Local	1.10	4.84
20	1,486	RACQUET RD	1,083	166	357	570	129	2,306	4.20	No	No	Local	0.60	4.80
21	1,533	SOUTHWEST AVE	22	24	55	59	55	216	1.93	Yes	No	Minor Art.	2.80	4.73
22	1,573	FREEBODY DR	401	63	52	44	33	593	4.08	No	No	Local	0.60	4.68
23	1,583	DUMPLING DR	1,167	133	152	66	256	1,774	4.06	No	No	Local	0.60	4.66
24	1,622	BAY VIEW DR	722	42	114	100	69	1,047	4.00	No	No	Local	0.60	4.60
25	1,638	LONGFELLOW RD	296	19	39	43	37	434	3.98	No	No	Local	0.60	4.58
26	1,697	WEEDEN LN	154	59	213	144	112	683	2.88	No	Yes	Local	1.60	4.48
27	1,795	CATAMARAN ST	175	66	94			334	3.72	No	No	Local	0.60	4.32
28	1,817	PIERCE AVE	306	37	47	76	56	522	3.69	No	No	Local	0.60	4.29
29	1,825	EMERSON RD	483	53	127	110	53	825	3.68	No	No	Local	0.60	4.28
30	1,832	WALCOTT AVE	17	17	31	31	27	123	2.06	Yes	No	Major Coll.	2.20	4.26
31	1,868	KNOWLES CT	240	26	53	56	50	425	3.60	No	No	Local	0.60	4.20
32	1,894	WRIGHT LN	216	30	62	49	39	396	3.55	No	No	Local	0.60	4.15
33	1,901	HAMILTON AVE	13	26	49	43	46	177	1.94	Yes	No	Major Coll.	2.20	4.14
34	1,909	MARINE AVE	268	33	67	73	53	493	3.53	No	No	Local	0.60	4.13
35	1,952	BAY VIEW DR N	30					30	3.50	No	No	Local	0.60	4.10
36	2,032	HAWTHORNE RD	160	106	172	111	63	613	3.40	No	No	Local	0.60	4.00
37	2,034	SPRING ST	212	31	73	52	57	425	3.39	No	No	Local	0.60	3.99
38	2,081	HOLMES CT			352	40		392	3.30	No	No	Local	0.60	3.90
39	2,108	BUCCANEER WAY	130	20	43	49	39	280	3.26	No	No	Local	0.60	3.86
40	2,117	FORT WETHERILL RD	293	44	97	349	318	1,101	2.51	Yes	No	Local	1.33	3.84
41	2,158	CHAMPLIN WAY	87	26	43	31	27	215	3.16	No	No	Local	0.60	3.76
42	2,219	FRIENDSHIP ST	57	10	23	23	20	133	3.01	No	No	Local	0.60	3.61
43	2,220	FRIGATE ST	42	13	33	33	43	163	2.01	Yes	No	Minor Coll.	1.60	3.61
44	2,302	NEWPORT ST		111	72	62	56	302	2.79	No	No	Local	0.60	3.39
45	2,367	DAVIS ST	50	17	43	36	36	182	2.65	No	No	Local	0.60	3.25
46	2,417	FLY JIB CT			215	55	42	312	2.52	No	No	Local	0.60	3.12
47	2,447	DORY ST	80	43	92	85	72	373	2.48	No	No	Local	0.60	3.08
48	2,474	NORTH BAY VIEW DR				519	645	1,164	2.39	No	No	Local	0.60	2.99
49	2,486	COULTER DR		108	171	112	62	452	2.33	No	No	Local	0.60	2.93
50	2,512	BROOK ST	42	16	30	30	36	153	2.26	No	No	Local	0.60	2.86
51	2,628	LINCOLN ST		24	26	23	23	97	2.01	No	No	Local	0.60	2.61
52	2,682	BAY TER	15	23	33	72	59	203	1.88	No	No	Local	0.60	2.48
53	2,696	PENNY RD		38	79	85	39	242	1.82	No	No	Local	0.60	2.42
54	2,707	BROAD ST	19	13	40	30	37	139	1.77	No	No	Local	0.60	2.37
55	2,741	BULOID AVE			44	43	52	139	1.50	No	No	Local	0.60	2.10
56	2,742	MERCY WEEDEN CT			133	140	286	559	1.50	No	No	Local	0.60	2.10
57	2,888	ALDEN RD					3	3	1.50	No	No	Local	0.60	2.10
58	2,889	B AVE					54	54	1.50	No	No	Local	0.60	2.10
59	2,890	BONNETT VIEW DR				8	53	61	1.50	No	No	Local	0.60	2.10
60	2,891	BOSTON AV					76	76	1.50	No	No	Local	0.60	2.10
61	2,892	DECATUR AVE				150	82	232	1.50	No	No	Local	0.60	2.10
62	2,893	FAIRVIEW ST					5	5	1.50	No	No	Local	0.60	2.10
63	2,894	MARCELLO DR					50	50	1.50	No	No	Local	0.60	2.10
64	2,895	SUMMIT AVE					34	34	1.50	No	No	Local	0.60	2.10
65	2,896	UMIAK AVE					65	65	1.50	No	No	Local	0.60	2.10
66	2,897	UNION ST		1	33	20	30	83	1.50	No	No	Local	0.60	2.10
67	2,898	WESTWIND DR					128	128	1.50	No	No	Local	0.60	2.10
68	2,899	WESTWOOD RD				157	216	373	1.50	No	No	Local	0.60	2.10
69	3,286	BARK AVE				46	95	142	1.50	No	No	Local	0.60	2.10
70	3,287	BRYER AVE			46	56	79	180	1.50	No	No	Local	0.60	2.10
		Total Linear Feet	36,556	5,105	6,700	6,649	6,707	61,716						



100 Year Storm Surge Event Plus Sea Level Rise Scenarios Affecting Bridges

Town of Jamestown

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- Freeboard Potentially Affected by Surge
- 100-Year Storm Event
- City and Town Boundaries
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0 0.25 0.5 1 Miles

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Relative Bridge Vulnerability to 100-Year Storm Surge Event Plus Sea Level Rise in the Town of Jamestown

Mun. Rank	State Rank	Bridge Name	Facility Carried	Feature Intersected	Inches of Freeboard Relative to 7FtSLR	Terrain Crossed	Landing Access	Haz. Score	Intermodal Facility	Evac. Route	AADT	Sys. Score	Vuln. Score
1	2	Newport Bridge Authority	RI 138	EAST PASSAGE NARR BAY	-216	MHHW	Problem	5.00	Yes	Yes	20,010	5.00	10.00
2	17	Round Swamp	NORTH MAIN RD	TIDAL INLET	-144	Water	Problem	4.50	Yes	Yes	5,300	3.80	8.30
3	42	Jamestown - Verrazzano	RI 138	WEST PASSAGE NARRA BAY	-216	MHHW	Access	3.00	Yes	No	33,533	4.00	7.00
4	65	Conanicut	EAST SHORE RD	BROOK	-132	Water	Problem	4.50	No	Yes	1,100	1.60	6.10