









# Sea Level Rise Scenarios Affecting Roads

Town of Tiverton

Map Created: 8/12/2016

**Map Legend**

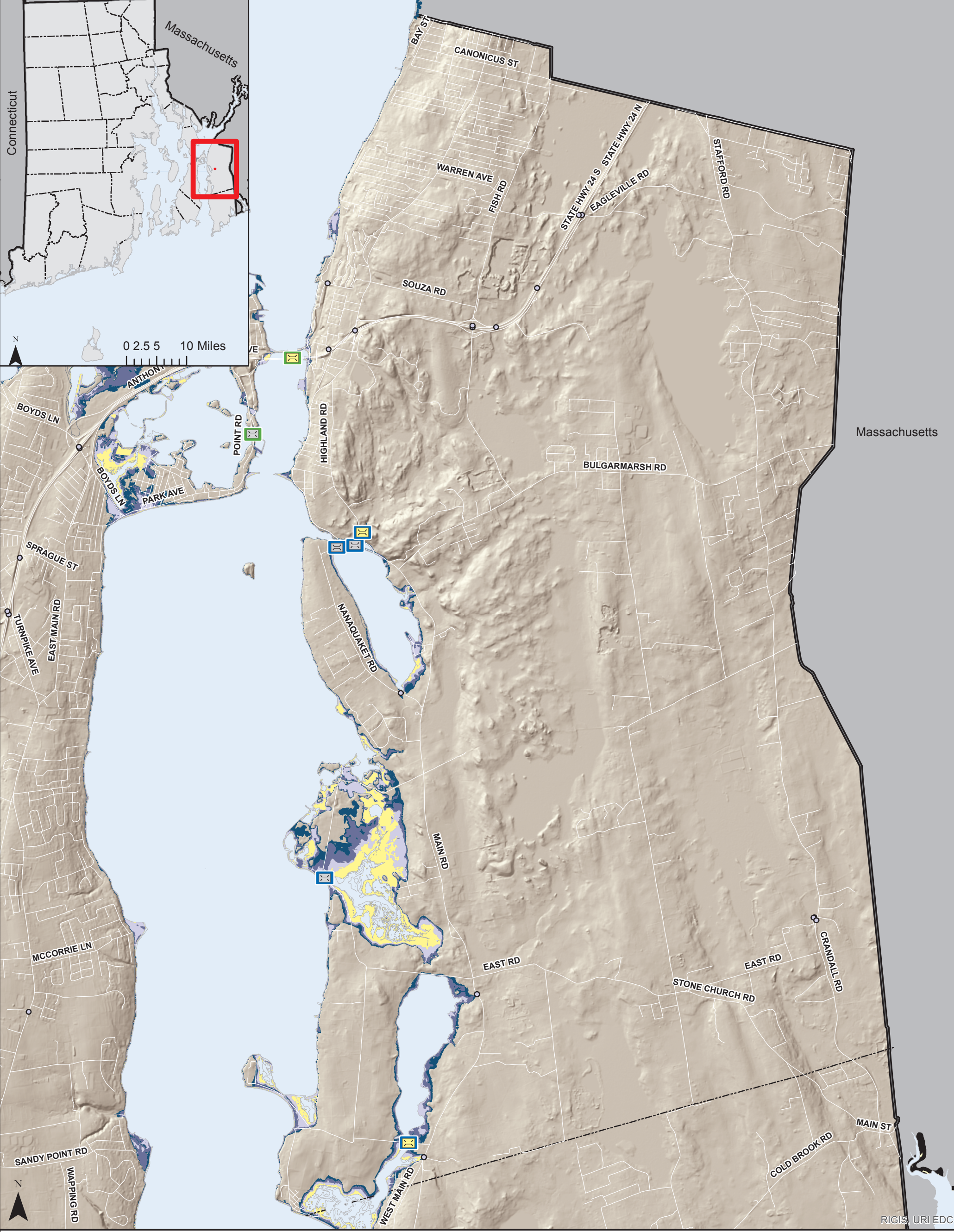
NOTES:  
 The Sea Level Rise (SLR) Inundation modified bathtub model does not take into consideration future erosion or storm surge.  
 Includes Hillshade from USGS 2011 LiDAR

-  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													
Tiverton			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	10	STATE HWY 24 S	308	217	138	20	683	3.72	No	Yes	Freeways	3.70	7.42
2	12	STATE HWY 24 N	279	233	168	10	690	3.59	No	Yes	Freeways	3.70	7.29
3	92	OLD MAIN RD		789	222	96	1,107	2.93	Yes	No	Major Coll.	2.20	5.13
4	126	RIVERSIDE DR		468	3,074	808	4,349	4.19	No	No	Local	0.60	4.79
5	220	THREE ROD WAY		1,368	1,685	487	3,540	3.41	No	No	Local	0.60	4.01
6	283	HIGHLAND RD				55	55	1.50	No	Yes	Major Coll.	2.20	3.70
7	291	MAIN RD		24	646	1,339	2,010	1.50	No	No	Minor Art.	2.16	3.66
8	332	BRIDGEPORT RD			158	363	521	1.50	No	Yes	Major Coll.	1.96	3.46
9	352	NANAQUAKET RD	5	13	84	181	283	1.50	No	Yes	Major Coll.	1.84	3.34
10	392	LAWRENCE CT		575	420	80	1,075	2.57	No	No	Local	0.60	3.17
11	467	SEAPOWET AVE	4	986	1,562	1,415	3,968	2.25	No	No	Local	0.60	2.85
12	476	NORTH GADSBY LN		148	226	88	461	2.14	No	No	Local	0.60	2.74
13	479	DELANOS RD		126	223	58	407	2.12	No	No	Local	0.60	2.72
14	545	POND BRIDGE RD	16	30	395	485	926	1.54	No	No	Local	0.60	2.14
15	562	QUAKER AVE			54	27	81	1.50	No	No	Local	0.60	2.10
16	563	WILLIAM ST		54	53	67	175	1.50	No	No	Local	0.60	2.10
17	1,074	ANTHONY WAY		64	105	49	219	1.50	No	No	Local	0.60	2.10
18	1,075	BRADLEY LN			199	6	205	1.50	No	No	Local	0.60	2.10
19	1,076	DRIFTWOOD DR			117	248	365	1.50	No	No	Local	0.60	2.10
20	1,077	EDMOND LN				76	76	1.50	No	No	Local	0.60	2.10
21	1,078	FARIA WAY		94	72	208	375	1.50	No	No	Local	0.60	2.10
22	1,079	FOGLAND RD		43	269	135	446	1.50	No	No	Local	0.60	2.10
23	1,080	HART ST				132	132	1.50	No	No	Local	0.60	2.10
24	1,081	HIGH HILL RD		1	102	64	167	1.50	No	No	Local	0.60	2.10
25	1,082	LENNY			85	22	107	1.50	No	No	Local	0.60	2.10
26	1,083	LENNY ST				80	80	1.50	No	No	Local	0.60	2.10
27	1,084	LITTLE HARBOR RD			13	43	55	1.50	No	No	Local	0.60	2.10
28	1,085	NECK RD			233	796	1,029	1.50	No	No	Local	0.60	2.10
29	1,086	ON RAMP RI-24 S	10	20	20	13	63	1.50	No	No	Local	0.60	2.10
30	1,087	POINTVIEW DR			113	95	208	1.50	No	No	Local	0.60	2.10
31	1,088	POPLAR ST				25	25	1.50	No	No	Local	0.60	2.10
32	1,089	PRESTON LN			12	374	386	1.50	No	No	Local	0.60	2.10
33	1,090	SHORE DR				341	341	1.50	No	No	Local	0.60	2.10
34	1,091	SUNDERLAND HTS				16	16	1.50	No	No	Local	0.60	2.10
35	1,092	TONY ST				13	13	1.50	No	No	Local	0.60	2.10
36	1,093	TWO ROD WAY		85	216	214	515	1.50	No	No	Local	0.60	2.10
37	1,094	WAMPANOG LN				49	49	1.50	No	No	Local	0.60	2.10
38	1,385	EVANS AVE			55	31	86	1.50	No	No	Local	0.60	2.10
39	1,386	EXIT 4			11	16	27	1.50	No	No	Local	0.60	2.10
TOTAL LINEAR FEET			623	5,338	10,731	8,626	25,320						



# Sea Level Rise Scenarios Affecting Bridges

Town of Tiverton

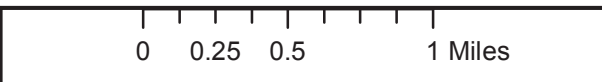
Map Created: 8/12/2016

**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

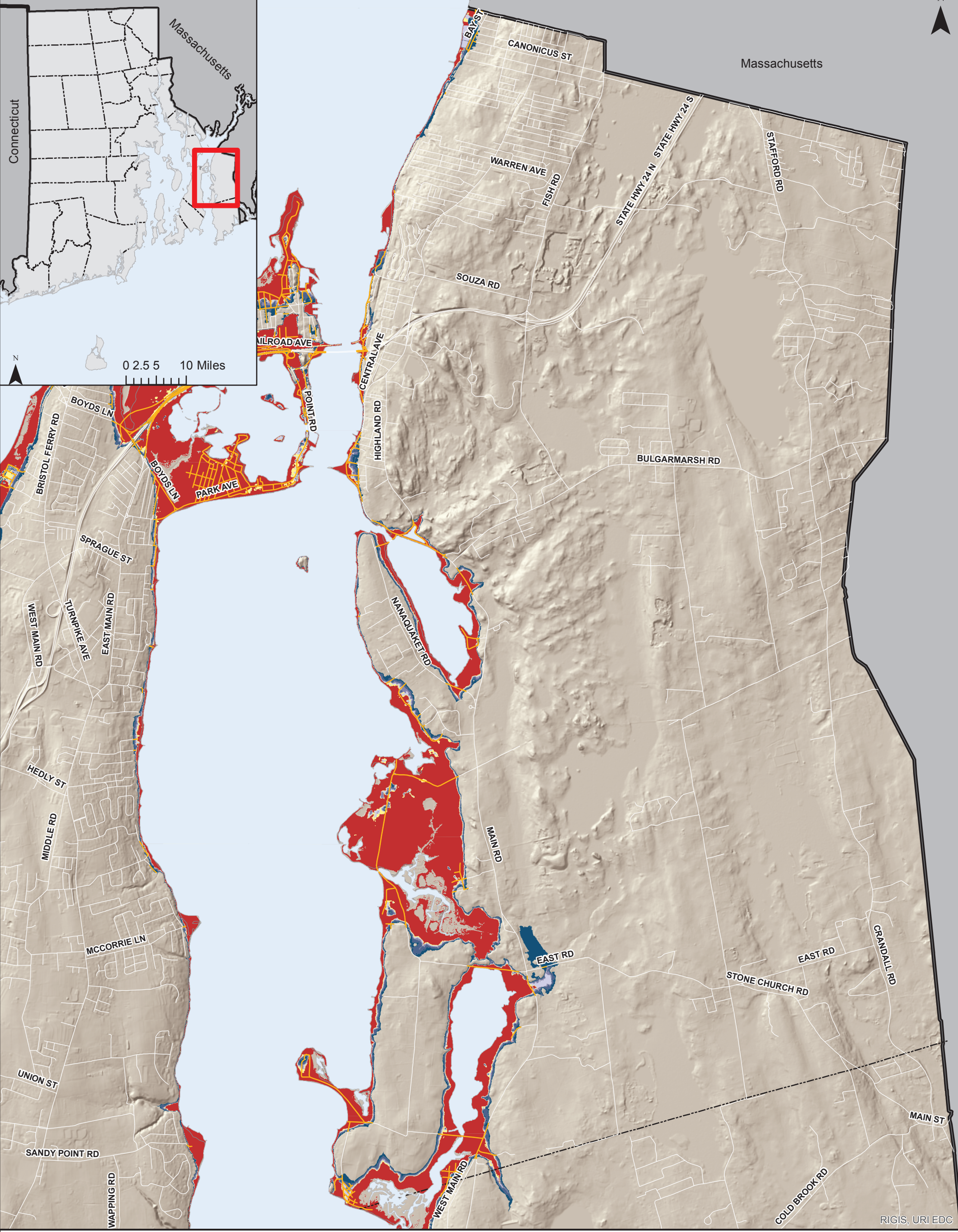
- Freeboard Potentially Affected by SLR
- Freeboard Unlikely to be Affected by SLR
- Not Exposed to SLR
- Bridge Accessible
- Possible Bridge Access Problem
- Current Mean Higher High Water
- 1ft Sea Level Rise
- 3ft Sea Level Rise
- 5ft Sea Level Rise
- 7ft Sea Level Rise
- City and Town Boundaries
- Roads



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

Mun. Rank	State Rank	Bridge Name	Facility Carried	Feature Intersected	Inches of Freeboard Relative to 7FtSLR	Terrain Crossed	Landing Access	Hazard Score	Intermodal Facility	Evacuation Route	AADT	System Score	Vulnerability Score
1	29	Sin & Flesh	OLD MAIN RD	SIN & FLESH BROOK	-24	Water	Problem	4.50	No	Yes	900	2.50	7.00
2	38	Nonquit Pond	POND BRIDGE RD	NONQUIT POND	-33	MHHW	Problem	5.00	No	No	500	1.50	6.50
3	64	Nannaquaket	NANNAQUAKET RD	NANNAQUAKET R	90	MHHW	Problem	3.00	Yes	No	822	2.50	5.50
4	65	Sapowet	SEAPOWET AV	TIDAL INLET	51	MHHW	Problem	3.00	Yes	No	480	2.50	5.50
5	67	Nannaquaket Pond	RI 77 MAIN RD	NANNAQUAKET POND	27	Water	Problem	3.30	No	No	6,868	2.10	5.40



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

Town of Tiverton

Map Created: 8/12/2016

**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

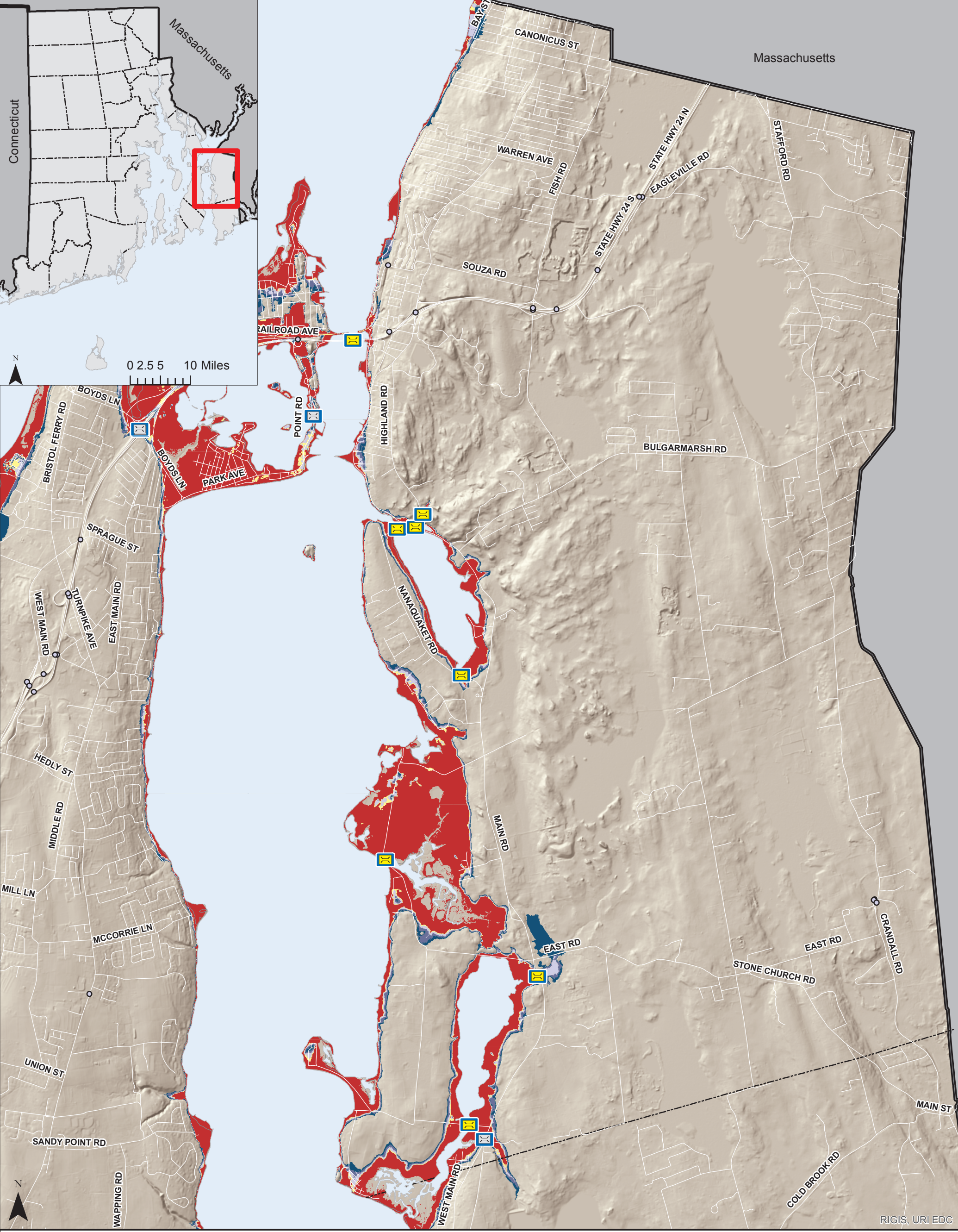
0 0.25 0.5 1 Miles

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Relative Road Vulnerability to 100-Year Storm Surge Event Plus Sea Level Rise														
Tiverton			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	40	STATE HWY 24 N	792	3	3	3		802	4.96	No	No	Freeways	2.70	7.66
2	47	STATE HWY 24 S	795	16	13	10	10	844	4.83	No	No	Freeways	2.70	7.53
3	75	HIGHLAND RD	1,364	13	27	27	20	1,452	4.77	Yes	No	Major Coll.	2.27	7.04
4	77	BRIDGEPORT RD	747					747	5.00	No	Yes	Major Coll.	2.03	7.03
5	113	HART ST	147					147	5.00	No	Yes	Local	1.60	6.60
6	114	THREE ROD WAY	3,602					3,602	5.00	No	Yes	Local	1.60	6.60
7	117	MAIN RD	6,007	662	1,305	1,052	936	9,962	4.32	No	No	Minor Art.	2.27	6.58
8	139	SEAPOWET AVE	7,791	316	646	222	169	9,144	4.74	No	Yes	Local	1.60	6.34
9	155	NANAQUAKET RD	1,143	71	137	133	153	1,638	4.02	No	Yes	Major Coll.	2.20	6.22
10	752	BARBARA ST	135					135	5.00	No	No	Local	0.60	5.60
11	753	BRADLEY LN	205					205	5.00	No	No	Local	0.60	5.60
12	754	DELANOS RD	407					407	5.00	No	No	Local	0.60	5.60
13	755	FRANCIS LN	258					258	5.00	No	No	Local	0.60	5.60
14	756	LENNY	107					107	5.00	No	No	Local	0.60	5.60
15	757	LENNY ST	138					138	5.00	No	No	Local	0.60	5.60
16	758	NORTH GADSBY LN	653					653	5.00	No	No	Local	0.60	5.60
17	759	PRESTON LN	445					445	5.00	No	No	Local	0.60	5.60
18	760	TWO ROD WAY	599					599	5.00	No	No	Local	0.60	5.60
19	1,046	RIVERSIDE DR	5,024	14	24	21	22	5,104	4.95	No	No	Local	0.60	5.55
20	1,060	PATSY ST	336	17				353	4.93	No	No	Local	0.60	5.53
21	1,081	DRIFTWOOD DR	1,165	141	39			1,344	4.90	No	No	Local	0.60	5.50
22	1,106	SHORE DR	833	91				924	4.85	No	No	Local	0.60	5.45
23	1,165	POINTVIEW DR	663	151	235	105	248	1,402	3.73	No	Yes	Local	1.60	5.33
24	1,224	POND BRIDGE RD	1,536	48	66	53	43	1,745	4.64	No	No	Local	0.60	5.24
25	1,230	WILLIAM ST	486	123	74			684	4.62	No	No	Local	0.60	5.22
26	1,309	BROOKSIDE DR	637	17	37	33	36	760	4.48	No	No	Local	0.60	5.08
27	1,367	FOGLAND RD	709	43	92	76	62	982	4.05	No	No	Local	0.92	4.97
28	1,375	TONY ST	159	157	237			553	4.36	No	No	Local	0.60	4.96
29	1,381	NECK RD	1,634	53	133	126	99	2,044	4.35	No	No	Local	0.60	4.95
30	1,410	LAWRENCE CT	1,210	21	141	205	26	1,602	4.30	No	No	Local	0.60	4.90
31	1,416	ON RAMP RI-24 S	87	3	7	7	5	108	4.29	No	No	Local	0.60	4.89
32	1,423	WAMPANOG LN	454	21	36	37	37	586	4.29	No	No	Local	0.60	4.89
33	1,427	WINNISIMET DR	1,951	496	389	431	94	3,360	4.28	No	No	Local	0.60	4.88
34	1,428	ANTHONY WAY	291	13	16	23	23	367	4.28	No	No	Local	0.60	4.88
35	1,581	EVANS AVE	154	9	16	16	14	210	4.07	No	No	Local	0.60	4.67
36	1,615	EDMOND LN	319	46	36	46	36	483	4.00	No	No	Local	0.60	4.60
37	1,647	QUAKER AVE	143	9	19	18	15	204	3.95	No	No	Local	0.60	4.55
38	1,657	FARIA WAY	516	36	148	71		771	3.94	No	No	Local	0.60	4.54
39	1,671	SESH DR	285	125	145	126		681	3.91	No	No	Local	0.60	4.51
40	1,707	HIGH HILL RD	650	116	215	149	116	1,245	3.86	No	No	Local	0.60	4.46
41	1,767	EXIT 4	65	5	10	10	10	100	3.77	No	No	Local	0.60	4.37
42	1,887	SUNDERLAND HTS	93	8	19	20	18	158	3.57	No	No	Local	0.60	4.17
43	2,109	NARRAGANSETT AVE	198	49	118	72	13	451	3.26	No	No	Local	0.60	3.86
44	2,112	POPLAR ST	65	10	16	7	31	129	3.25	No	No	Local	0.60	3.85
45	2,118	SCHOONER DR		10	229	567	87	893	3.24	No	No	Local	0.60	3.84
46	2,131	STATE AVE	143	13	37	50	50	295	3.20	No	No	Local	0.60	3.80
47	2,179	RONNIE ST	68	23	372	132		596	3.11	No	No	Local	0.60	3.71
48	2,215	BAY ST	165	29	551	842	979	2,567	2.83	No	No	Local	0.79	3.62
49	2,279	LITTLE HARBOR RD	141	13	58	69	82	362	2.86	No	No	Local	0.60	3.46
50	2,316	LAWTON AVE	172	58	156	94	94	574	2.75	No	No	Local	0.60	3.35
51	2,346	CANONICUS ST					121	121	1.50	No	No	Minor Art.	1.80	3.30
52	2,347	EAST RD					153	153	1.50	No	No	Minor Art.	1.80	3.30
53	2,389	PEACEFUL WAY	146	70	114	137	116	584	2.62	No	No	Local	0.60	3.22
54	2,403	SACHEM RD	61	16	42	49	62	231	2.57	No	No	Local	0.60	3.17
55	2,456	GADSBY LN	73	61	98	85	86	402	2.44	No	No	Local	0.60	3.04
56	2,518	HILLSIDE AVE	141	39	62	262	269	774	2.24	No	No	Local	0.60	2.84
57	2,541	OLD BULGARMARSH RD	12	21	24	21	21	99	2.17	No	No	Local	0.60	2.77
58	2,595	PECKHAM LN	24	61	69	102	40	296	2.08	No	No	Local	0.60	2.68
59	2,606	E SAKONNET	17	55	78	75	37	262	2.05	No	No	Local	0.60	2.65
60	2,624	SEACONNET AVE	6	36	56	30	13	141	2.01	No	No	Local	0.60	2.61
61	2,720	SOUTH AVE		15	40	40	40	137	1.73	No	No	Local	0.60	2.33
62	2,721	NORTH CT		41	177	101	53	371	1.72	No	No	Local	0.60	2.32
63	2,725	OLD MAIN RD		16	59	59	49	183	1.67	No	No	Local	0.60	2.27
64	3,072	BISMARCK AVE				89	14	103	1.50	No	No	Local	0.60	2.10
65	3,073	GRACE				147		147	1.50	No	No	Local	0.60	2.10
66	3,074	HILTON ST					51	51	1.50	No	No	Local	0.60	2.10
67	3,075	HOOPER ST					35	35	1.50	No	No	Local	0.60	2.10
68	3,076	HORIZON DR					55	55	1.50	No	No	Local	0.60	2.10
69	3,077	LAURA LN			7	25	18	50	1.50	No	No	Local	0.60	2.10
70	3,078	MIDDLE AVE				36	20	56	1.50	No	No	Local	0.60	2.10
71	3,079	SHIRLEY ST			72	252		324	1.50	No	No	Local	0.60	2.10

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
72	3,351	ARROWHEAD DR				29	72	102	1.50	No	No	Local	0.60	2.10
73	3,352	FOOTE ST				11	204	215	1.50	No	No	Local	0.60	2.10
74	3,353	LONG PASTURE WAY		13	44	40	242	340	1.50	No	No	Local	0.60	2.10
75	3,354	SILVER BAY RD			23	76	82	181	1.50	No	No	Local	0.60	2.10
Total Linear Feet			46,168	3,497	6,746	6,442	5,300	68,153						



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

Town of Tiverton

Map Created: 8/12/2016

**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

- Freeboard Potentially Affected by Surge
- Freeboard Unlikely to be Affected by Surge
- Bridge in Surge Area Protected by Hurricane Barrier
- Not Exposed to Surge
- access, 0
- problem, 0
- 100-Year Storm Event
- 100-Year Plus 1 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
- Roads

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 Tiverton

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	34	Tiverton Four Corners	RI 77 WEST MAIN RD	BORDEN BROOK	-47	Water	Problem	4.50	No	Yes	6,300	2.80	7.30
2	54	Nannaquaket	NANNAQUAKET RD	NANNAQUAKET R	-54	MHHW	Problem	5.00	Yes	No	822	1.60	6.60
3	55	Sapowet	SEAPOWET AV	TIDAL INLET	-93	MHHW	Problem	5.00	Yes	No	480	1.60	6.60
4	61	Nannaquaket Pond	RI 77 MAIN RD	NANNAQUAKET POND	-127	Water	Problem	4.50	No	No	6,868	1.80	6.30
5	70	Beattie	NANNAQUAKET ROAD	BEATTIE BROOK	-90	Water	Problem	4.50	Yes	No	600	1.60	6.10
6	71	Sin & Flesh	OLD MAIN RD	SIN & FLESH BROOK	-210	Water	Problem	4.50	No	Yes	900	1.60	6.10
7	87	Pachet Brook	RI 77 WEST MAIN RD	PACHET BROOK	22	Water	Problem	4.10	No	Yes	3,600	1.60	5.70
8	97	Nonquit Pond	POND BRIDGE RD	NONQUIT POND	-177	MHHW	Problem	5.00	No	No	500	0.60	5.60