

Sea Level Rise Scenarios Affecting Roads

Town of Charlestown

Map Created: 8/10/2016

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

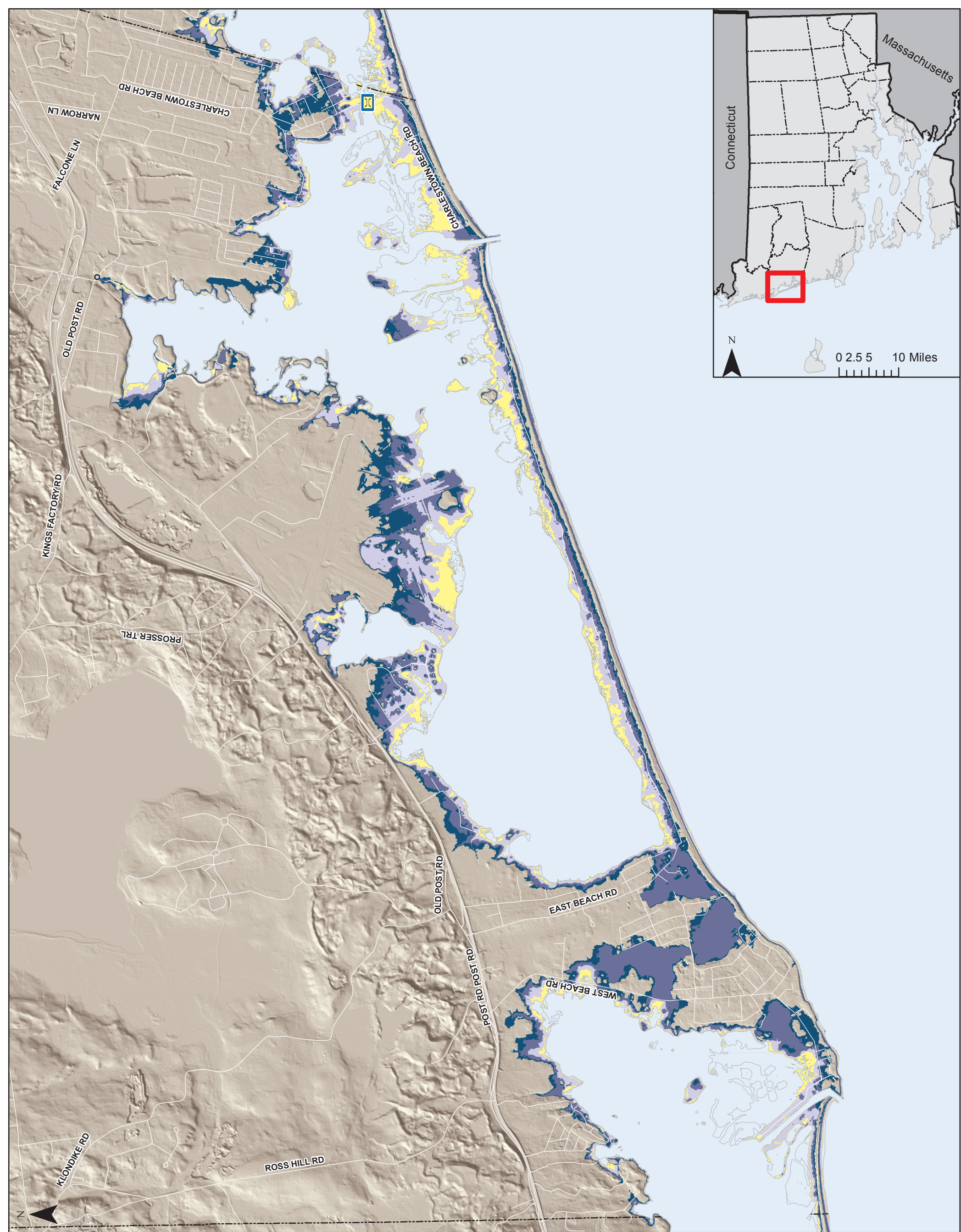
0 0.25 0.5 1 Miles



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Relative Road Vulnerability to Sea Level Rise													
Charlestown			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	Linear Feet	Hazard Score	Evacuation Route	Intermodal Facility	Functional Classification	System Score	Vulnerability Score
1	32	WEST BEACH RD	95	2,749	1,572	2,210	6,626	4.84	Yes	No	Minor Coll.	1.26	6.10
2	34	CHARLESTOWN BEACH RD	132	881	734	3,976	5,723	4.43	Yes	No	Major Coll.	1.58	6.01
3	52	COVE DR		1,053			1,053	5.00	No	No	Local	0.60	5.60
4	89	EAST BEACH RD		7,292	5,344	2,800	15,436	4.31	Yes	No	Local	0.85	5.16
5	105	WILDFLOWER RD	273	1,061	219	84	1,636	4.35	No	No	Local	0.60	4.95
6	217	FLORENCE RD	252	261	188	27	727	3.43	No	No	Local	0.60	4.03
7	219	GARDEN POND DR			563	24	587	3.42	No	No	Local	0.60	4.02
8	230	SEA LEA AVE			93	1,031	1,124	3.34	No	No	Local	0.60	3.94
9	236	POND SHORE DR		14	170	1,805	1,989	3.32	No	No	Local	0.60	3.92
10	253	5TH AVE		197	597	124	918	3.23	No	No	Local	0.60	3.83
11	263	MEADOW LN		53	1,401	213	1,667	3.18	No	No	Local	0.60	3.78
12	318	FOSTER DR		24	727	267	1,017	2.93	No	No	Local	0.60	3.53
13	327	WEST WILLOW LN	88	282	647	432	1,449	2.90	No	No	Local	0.60	3.50
14	328	SHIRLEY DR		103	701	367	1,171	2.87	No	No	Local	0.60	3.47
15	349	CLEARVIEW RD		603	337	25	965	2.75	No	No	Local	0.60	3.35
16	366	ARCHES RD		83	1,211	751	2,045	2.68	No	No	Local	0.60	3.28
17	367	SOUTHERN WAY	263	71	210	234	780	2.68	No	No	Local	0.60	3.28
18	371	NUTMEG LN	102	331	324	112	869	2.67	No	No	Local	0.60	3.27
19	372	POTTER RD		234	129	38	401	2.67	No	No	Local	0.60	3.27
20	388	SAFFORD DR		330	209	73	612	2.58	No	No	Local	0.60	3.18
21	411	BROWN HILL RD			52	151	202	1.50	Yes	No	Local	1.60	3.10
22	427	RAM ISLAND RD		26	711	722	1,458	2.47	No	No	Local	0.60	3.07
23	430	CRYSTAL CT		156	176		331	2.44	No	No	Local	0.60	3.04
24	437	WALL ST		238	93	200	531	2.40	No	No	Local	0.60	3.00
25	448	2ND ST		144	179	16	339	2.35	No	No	Local	0.60	2.95
26	456	FIRST ST		351	134	381	867	2.31	No	No	Local	0.60	2.91
27	462	4TH ST		128	60	137	325	2.29	No	No	Local	0.60	2.89
28	519	STARRETT DR		190	467	63	720	2.03	No	No	Local	0.60	2.63
29	675	3RD ST			338	366	703	1.50	No	No	Local	0.60	2.10
30	676	ALLENS COVE RD			86	358	443	1.50	No	No	Local	0.60	2.10
31	677	ASHAWAY COLONY LN				157	157	1.50	No	No	Local	0.60	2.10
32	678	ATLANTIC AVE				465	465	1.50	No	No	Local	0.60	2.10
33	679	BROOKSIDE DR			72	53	125	1.50	No	No	Local	0.60	2.10
34	680	BURDICK ST			115	160	275	1.50	No	No	Local	0.60	2.10
35	681	CEDAR RD				112	112	1.50	No	No	Local	0.60	2.10
36	682	COVE POINT RD E			11	21	33	1.50	No	No	Local	0.60	2.10
37	683	EAST BURDICK ST			20	460	480	1.50	No	No	Local	0.60	2.10
38	684	EAST CENTRAL AVE				108	108	1.50	No	No	Local	0.60	2.10
39	685	EAST SHORE DR		35	39	349	424	1.50	No	No	Local	0.60	2.10
40	686	HIGHLAND RD			69	327	396	1.50	No	No	Local	0.60	2.10
41	687	KILBURN ST				561	561	1.50	No	No	Local	0.60	2.10
42	688	LAGOON AVE				29	29	1.50	No	No	Local	0.60	2.10
43	689	LINCOLN RD				167	167	1.50	No	No	Local	0.60	2.10
44	690	MIDLAND RD				475	475	1.50	No	No	Local	0.60	2.10
45	691	NINIGRET AVE				303	303	1.50	No	No	Local	0.60	2.10
46	692	NORTH AVE			17	140	158	1.50	No	No	Local	0.60	2.10
47	693	OCEAN VIEW AVE			147	525	672	1.50	No	No	Local	0.60	2.10
48	694	OLD WEST BEACH RD			100	338	438	1.50	No	No	Local	0.60	2.10
49	695	OYSTER DR			12	35	47	1.50	No	No	Local	0.60	2.10
50	696	POWAGET AVE			389	83	472	1.50	No	No	Local	0.60	2.10
51	697	SAND TRL			23	906	929	1.50	No	No	Local	0.60	2.10
52	698	SEA BREEZE DR			46	60	106	1.50	No	No	Local	0.60	2.10
53	699	SHORE DR			336	476	812	1.50	No	No	Local	0.60	2.10
54	700	SOUTH BAYBERRY LN			306		306	1.50	No	No	Local	0.60	2.10
55	701	SOUTH NIAN TIC DR			22	77	98	1.50	No	No	Local	0.60	2.10
56	702	STUMPY POINT LN		7	63	256	326	1.50	No	No	Local	0.60	2.10
57	703	SUNSET DR				59	59	1.50	No	No	Local	0.60	2.10
58	704	SURFSIDE AVE				427	427	1.50	No	No	Local	0.60	2.10
59	705	TERN WAY		28	243	43	314	1.50	No	No	Local	0.60	2.10
60	706	TOCKWOTTEN COVE RD				230	230	1.50	No	No	Local	0.60	2.10
61	707	TOWN DOCK RD		13	24	37	75	1.50	No	No	Local	0.60	2.10
62	708	TRAYMORE ST				98	98	1.50	No	No	Local	0.60	2.10
63	709	UNNAMED_6				25	25	1.50	No	No	Local	0.60	2.10
64	710	UPLAND RD			369	285	655	1.50	No	No	Local	0.60	2.10
65	711	YEW RD			74	172	246	1.50	No	No	Local	0.60	2.10
66	1,334	DAVENTRY ST			141	185	326	1.50	No	No	Local	0.60	2.10
67	1,335	LOU AVE			57	76	133	1.50	No	No	Local	0.60	2.10
68	1,336	PEQUOT DR			161	528	689	1.50	No	No	Local	0.60	2.10
69	1,337	POND ST		66	75	220	360	1.50	No	No	Local	0.60	2.10
70	1,338	SANDPIPER LN			130	445	575	1.50	No	No	Local	0.60	2.10
71	1,339	SPORTSMAN RD			357	50	408	1.50	No	No	Local	0.60	2.10
72	1,340	WEST END RD		32	182	174	387	1.50	No	No	Local	0.60	2.10

Muni Rank	State Rank	Road Name	1 Foot of SLR	3 Feet of SLR	5 Feet of SLR	7 Feet of SLR	Linear Feet	Hazard Score	Evacuation Route	Intermodal Facility	Functional Classification	System Score	Vulnerability Score
		TOTAL LINEAR FEET	1,205	17,035	21,266	26,686	66,192						



Sea Level Rise Scenarios Affecting Bridges

Town of Charlestown

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

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

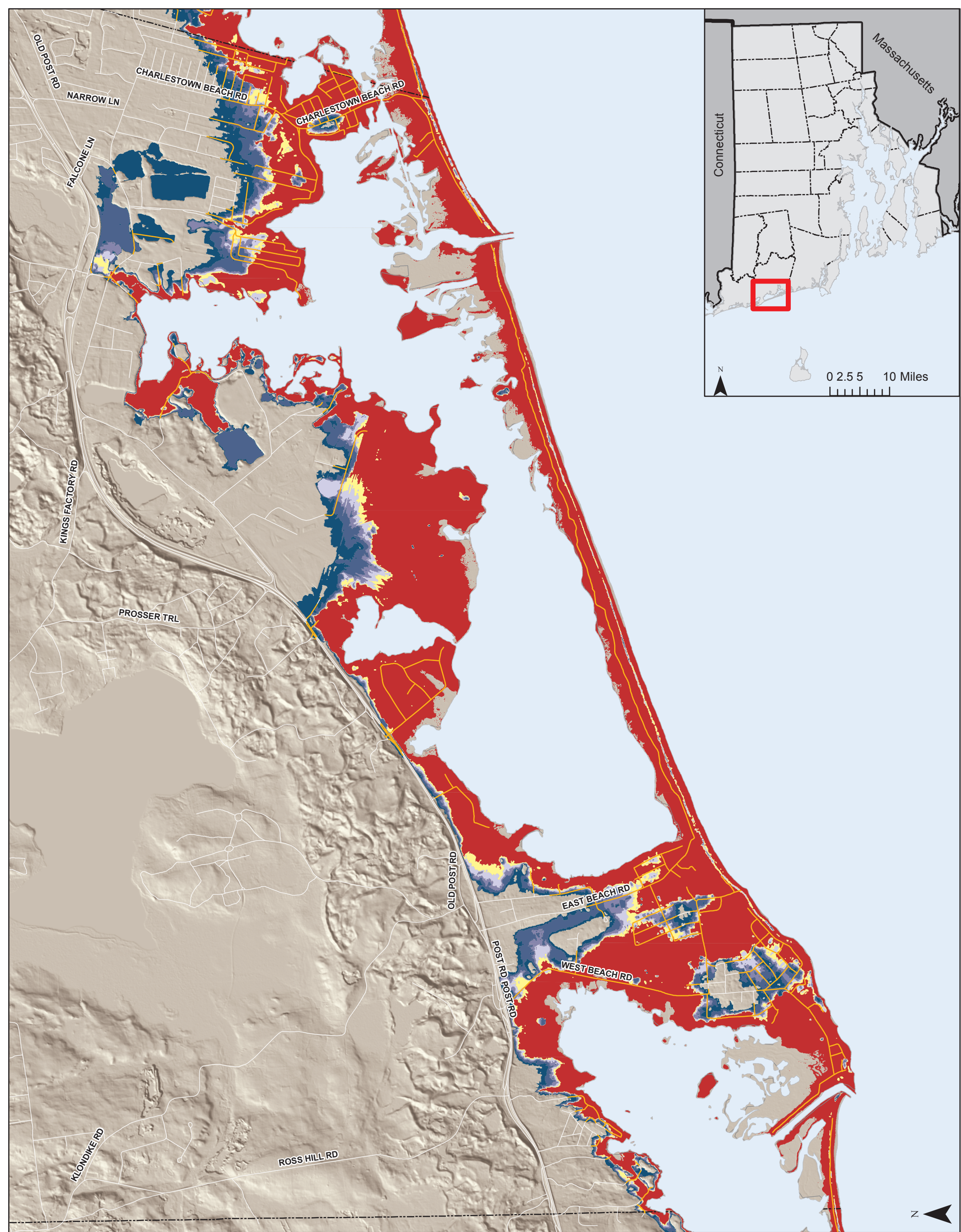
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Bridges Possibly Affected by Sea Level Rise in the Town of Charlestown

Mun. Rank	State Rank	Bridge Name	Facility Carried	Feature Intersected	Inches of Freeboard Relative to 7FtSLR	Terrain Crossed	Landing Access	Hazard Score	Intermodal Facility	Evac. Route	AADT	System Score	Vulnerability Score
1	15	Charlestown Beach Road	CHARLESTOWN BCH RD	PERRY CREEK	-24	MHHW	Problem	5.00	No	Yes	566	2.50	7.50



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

Town of Charlestown











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Includes Hillshade from USGS 2011 LiDAR

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

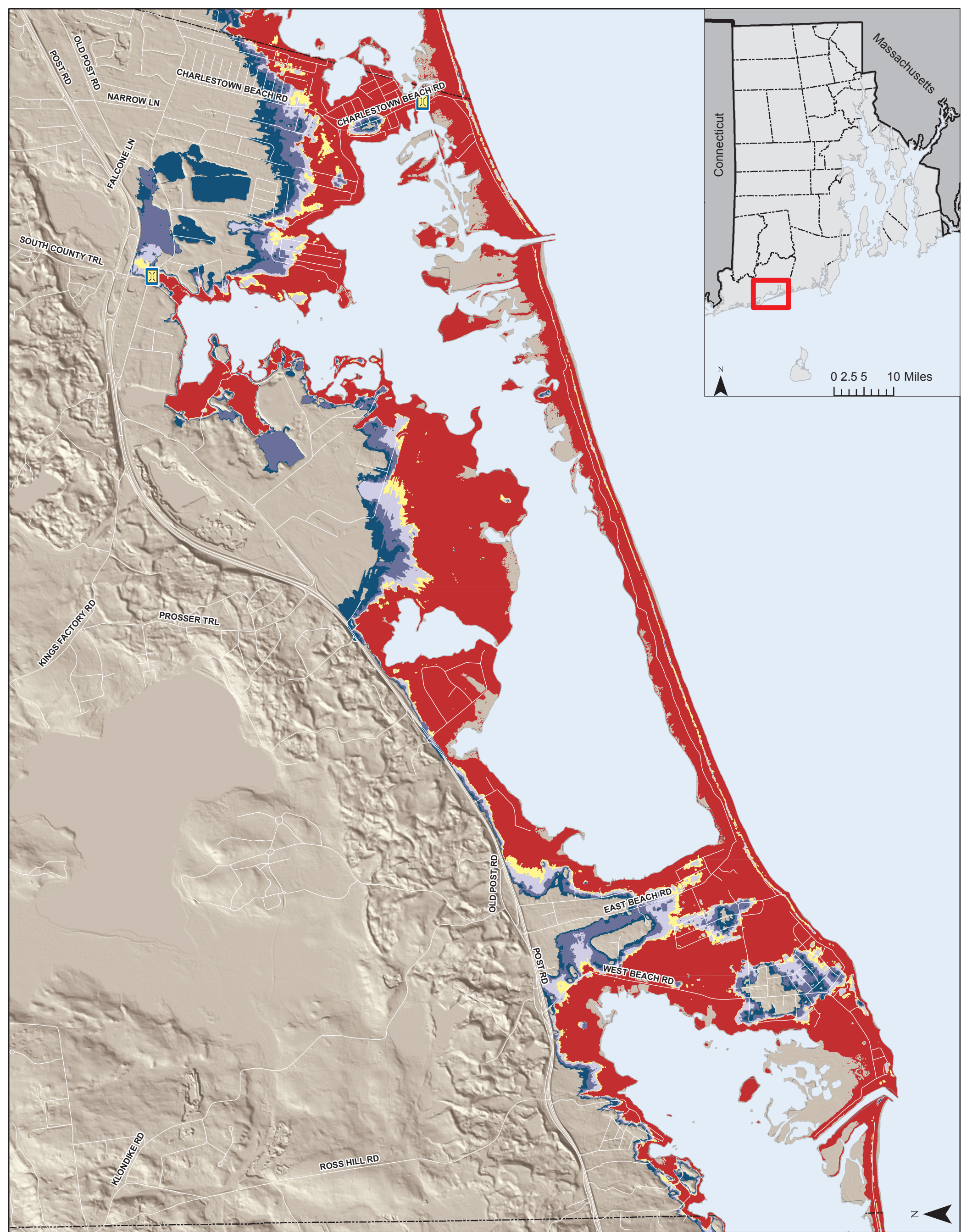
0 0.25 0.5 1 Miles



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Relative Road Vulnerability to 100-Year Storm Surge Event Plus Sea Level Rise														
Charlestown			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	112	BROWN HILL RD	331					331	5.00	Yes	No	Local	1.60	6.60
2	175	CHARLESTOWN BEACH RD	6,791	102	661	472	793	8,819	4.38	Yes	No	Major Coll.	1.78	6.16
3	184	WEST BEACH RD	8,590	371	902	832	377	11,071	4.65	Yes	No	Minor Coll.	1.40	6.05
4	227	EAST BEACH RD	18,066	444	587	612	157	19,865	4.87	No	No	Local	0.90	5.77
5	449	2ND ST	339					339	5.00	No	No	Local	0.60	5.60
6	450	3RD ST	790					790	5.00	No	No	Local	0.60	5.60
7	451	4TH ST	389					389	5.00	No	No	Local	0.60	5.60
8	452	5TH AVE	918					918	5.00	No	No	Local	0.60	5.60
9	453	ARCHES RD	2,045					2,045	5.00	No	No	Local	0.60	5.60
10	454	ASHAWAY COLONY LN	421	114				535	5.00	No	No	Local	0.60	5.60
11	455	ATLANTIC AVE	536					536	5.00	No	No	Local	0.60	5.60
12	456	BEECH RD	243					243	5.00	No	No	Local	0.60	5.60
13	457	BURDICK ST	495					495	5.00	No	No	Local	0.60	5.60
14	458	CLEARVIEW RD	965					965	5.00	No	No	Local	0.60	5.60
15	459	COVE DR	1,053					1,053	5.00	No	No	Local	0.60	5.60
16	460	CRYSTAL CT	331					331	5.00	No	No	Local	0.60	5.60
17	461	DOWD DR	618					618	5.00	No	No	Local	0.60	5.60
18	462	EAST CENTRAL AVE	673	207				880	5.00	No	No	Local	0.60	5.60
19	463	EAST SHORE DR	713					713	5.00	No	No	Local	0.60	5.60
20	464	FIRST ST	867					867	5.00	No	No	Local	0.60	5.60
21	465	FLORENCE RD	727					727	5.00	No	No	Local	0.60	5.60
22	466	FOSTER DR	1,234					1,234	5.00	No	No	Local	0.60	5.60
23	467	GARDEN POND DR	587					587	5.00	No	No	Local	0.60	5.60
24	468	MARSH DR	564					564	5.00	No	No	Local	0.60	5.60
25	469	NUTMEG LN	1,058					1,058	5.00	No	No	Local	0.60	5.60
26	470	PINE RD	203					203	5.00	No	No	Local	0.60	5.60
27	471	POTTER RD	401					401	5.00	No	No	Local	0.60	5.60
28	472	SAFFORD DR	612					612	5.00	No	No	Local	0.60	5.60
29	473	SANDPIPER LN	644					644	5.00	No	No	Local	0.60	5.60
30	474	SEA LEA AVE	1,124					1,124	5.00	No	No	Local	0.60	5.60
31	475	SHORE DR	1,042					1,042	5.00	No	No	Local	0.60	5.60
32	476	SOUTH BAYBERRY LN	306					306	5.00	No	No	Local	0.60	5.60
33	477	SPORTSMAN RD	408					408	5.00	No	No	Local	0.60	5.60
34	478	TERN WAY	314					314	5.00	No	No	Local	0.60	5.60
35	479	WALL ST	531					531	5.00	No	No	Local	0.60	5.60
36	480	WEST END RD	616					616	5.00	No	No	Local	0.60	5.60
37	481	WEST WILLOW LN	2,039					2,039	5.00	No	No	Local	0.60	5.60
38	482	YEW RD	246					246	5.00	No	No	Local	0.60	5.60
39	1,023	POWAGET AVE	882	471	5			1,357	4.99	No	No	Local	0.60	5.59
40	1,026	CROSS ST	563	2				565	4.99	No	No	Local	0.60	5.59
41	1,043	DAVENTRY ST	555	20				575	4.95	No	No	Local	0.60	5.55
42	1,047	SAND TRL	2,234	85				2,319	4.94	No	No	Local	0.60	5.54
43	1,198	SPRAY ST	246	65				311	4.69	No	No	Local	0.60	5.29
44	1,211	WILDFLOWER RD	1,759	65	38	98	32	1,992	4.66	No	No	Local	0.60	5.26
45	1,212	TRAYMORE ST	447	241	76			764	4.65	No	No	Local	0.60	5.25
46	1,214	MEADOW LN	1,858	53	94	60	35	2,099	4.65	No	No	Local	0.60	5.25
47	1,229	NORTH AVE	366	149	62			576	4.63	No	No	Local	0.60	5.23
48	1,242	STARRETT DR	998	367	485			1,850	4.61	No	No	Local	0.60	5.21
49	1,265	ARNOLDA ROUND RD	1,034	246	139	22	20	1,461	4.57	No	No	Local	0.60	5.17
50	1,311	POND ST	1,292	35	90	51	74	1,542	4.48	No	No	Local	0.60	5.08
51	1,331	KILBURN ST	691	42	65	55		853	4.43	No	No	Local	0.60	5.03
52	1,363	OCEAN VIEW AVE	1,121	495	47	98	207	1,968	4.37	No	No	Local	0.60	4.97
53	1,390	OVERLOOK AVE	758	379	233	200		1,569	4.33	No	No	Local	0.60	4.93
54	1,396	SURFSIDE AVE	2,131	19	244	380	42	2,817	4.32	No	No	Local	0.60	4.92
55	1,406	RAM ISLAND RD	2,017	92	200	146	226	2,682	4.31	No	No	Local	0.60	4.91
56	1,417	POND SHORE DR	2,411	217	1,199	539	171	4,537	4.29	No	No	Local	0.60	4.89
57	1,454	EAST BURDICK ST	540	19	43	61	40	703	4.24	No	No	Local	0.60	4.84
58	1,456	SHIRLEY DR	1,434	64	100	165	115	1,878	4.24	No	No	Local	0.60	4.84
59	1,465	ALLENS COVE RD	529	18	54	56	33	691	4.23	No	No	Local	0.60	4.83
60	1,466	SOUTHERN WAY	1,765	269	543	428		3,005	4.23	No	No	Local	0.60	4.83
61	1,496	UPPER HIGHLAND RD		551	570	21		1,141	4.19	No	No	Local	0.60	4.79
62	1,519	RICHARD ST		190	137			327	4.15	No	No	Local	0.60	4.75
63	1,545	TOCKWOTTEN COVE RD	1,130	204	409	158	200	2,101	4.11	No	No	Local	0.60	4.71
64	1,561	UPLAND RD	949	109	305	128	174	1,665	4.09	No	No	Local	0.60	4.69
65	1,565	SOUTH NIAN TIC DR	934	111	271	307		1,623	4.09	No	No	Local	0.60	4.69
66	1,659	POST RD				657	2,073	2,730	1.50	No	No	Principal Art.	3.03	4.53
67	1,687	MIDLAND RD	1,395	84	259	346	181	2,265	3.89	No	No	Local	0.60	4.49
68	1,700	SUNSET DR	1,085	126	694	204	260	2,369	3.87	No	No	Local	0.60	4.47
69	1,724	OLD WEST BEACH RD	662	23	42	137	149	1,013	3.83	No	No	Local	0.60	4.43
70	1,731	SEA BREEZE DR	1,264	286	433	338	326	2,648	3.82	No	No	Local	0.60	4.42
71	1,773	BUDDINGTON RD	172	52	455	36		716	3.76	No	No	Local	0.60	4.36
72	1,786	NINIGRET AVE	470	295	550	220	158	1,693	3.73	No	No	Local	0.60	4.33

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
73	1,788	HIGHLAND RD	641	110	107	322		1,180	3.73	No	No	Local	0.60	4.33
74	1,799	CEDAR RD	1,280	27	68	353	315	2,044	3.72	No	No	Local	0.60	4.32
75	1,808	TOWN DOCK RD	392	85	117	55	52	701	3.70	No	No	Local	0.60	4.30
76	1,811	CRAIG ST	133	17	27	551		727	3.70	No	No	Local	0.60	4.30
77	1,819	MARION DR	191	92	558	59		900	3.69	No	No	Local	0.60	4.29
78	1,826	BROOKSIDE DR	225	27	57	44	34	387	3.67	No	No	Local	0.60	4.27
79	1,830	LAGOON AVE	136	47	41	27	13	264	3.66	No	No	Local	0.60	4.26
80	1,835	PARK LN	306	74	692	810	1,090	2,973	3.65	No	No	Local	0.60	4.25
81	1,837	LINCOLN RD	282	26	44	49	82	483	3.65	No	No	Local	0.60	4.25
82	1,859	STUMPY POINT LN	378	15	25	32	174	624	3.62	No	No	Local	0.60	4.22
83	1,869	PEQUOT DR	984	125	292	207	444	2,051	3.60	No	No	Local	0.60	4.20
84	1,903	LOU AVE	351	60	93	78	79	661	3.54	No	No	Local	0.60	4.14
85	1,933	BLUEBERRY LN					1,113	1,113	3.50	No	No	Local	0.60	4.10
86	1,934	DALTON ST			463			463	3.50	No	No	Local	0.60	4.10
87	1,935	GENWOOD RD					1,085	1,085	3.50	No	No	Local	0.60	4.10
88	1,936	UNNAMED_6	25					25	3.50	No	No	Local	0.60	4.10
89	2,057	WELLS LN		222	221	56	56	556	3.34	No	No	Local	0.60	3.94
90	2,138	BRIARWOOD DR	262	43	59	69	158	591	3.20	No	No	Local	0.60	3.80
91	2,141	SHADY HARBOR DR	194	45	75	68	73	454	3.19	No	No	Local	0.60	3.79
92	2,241	BAYVIEW RD	117	36	49	53	72	328	2.97	No	No	Local	0.60	3.57
93	2,253	COVE POINT RD E	59	12	19	22	33	145	2.93	No	No	Local	0.60	3.53
94	2,276	COVE POINT RD W	65	129	179	105	176	654	2.86	No	No	Local	0.60	3.46
95	2,362	OYSTER DR	70	38	32	96	40	276	2.67	No	No	Local	0.60	3.27
96	2,381	LUCAS AVE			335	246	14	595	2.63	No	No	Local	0.60	3.23
97	2,406	CROSSPATCH RD				625	548	1,173	2.57	No	No	Local	0.60	3.17
98	2,449	OLD POST RD	98	63	110	345	610	1,226	1.88	No	No	Major Coll.	1.20	3.08
99	2,451	WEST WAY	114	82	118	140	134	588	2.46	No	No	Local	0.60	3.06
100	2,452	GRAYS POINT RD	109	30	125	108	89	461	2.46	No	No	Local	0.60	3.06
101	2,466	MOULTON PL	44	49	160	208		461	2.42	No	No	Local	0.60	3.02
102	2,476	WEST NIANTIC ST			317	309	92	719	2.38	No	No	Local	0.60	2.98
103	2,529	WARREN RD	9	96	100	42	26	272	2.20	No	No	Local	0.60	2.80
104	2,540	HAZEN ST		132	189	207	525	1,054	2.17	No	No	Local	0.60	2.77
105	2,542	NANCY LN			243	418		661	2.16	No	No	Local	0.60	2.76
106	2,565	CROSS MILL DR			32	40	275	347	1.50	No	No	Major Coll.	1.20	2.70
107	2,597	ARNOLD ST	17	18	30	27	31	122	2.07	No	No	Local	0.60	2.67
108	2,622	HILLCREST DR	18	28	31	48	54	180	2.01	No	No	Local	0.60	2.61
109	2,642	COBLEIGH ST	92	24	72	75	526	788	1.97	No	No	Local	0.60	2.57
110	2,651	ESSEX DR	10	73	76	106	103	368	1.95	No	No	Local	0.60	2.55
111	2,667	HOXIE AVE	96	54	146	294	463	1,054	1.92	No	No	Local	0.60	2.52
112	2,718	SOUTH ARNOLDA RD	34	38	123	308	110	613	1.73	No	No	Local	0.60	2.33
113	2,804	BAY ST			67	56	191	313	1.50	No	No	Local	0.60	2.10
114	2,805	BOULDER AVE				279	272	550	1.50	No	No	Local	0.60	2.10
115	2,806	CENTRAL ST				491	401	892	1.50	No	No	Local	0.60	2.10
116	2,807	EAST ARNOLDA DR					138	138	1.50	No	No	Local	0.60	2.10
117	2,808	EAST BAYVIEW RD				34	133	167	1.50	No	No	Local	0.60	2.10
118	2,809	EDGEWARE ST			27	63	98	188	1.50	No	No	Local	0.60	2.10
119	2,810	GRANDVIEW DR					52	52	1.50	No	No	Local	0.60	2.10
120	2,811	HENLEY ST					140	140	1.50	No	No	Local	0.60	2.10
121	2,812	HUNTERS HARBOR RD				407	379	785	1.50	No	No	Local	0.60	2.10
122	2,813	NINIGRET ENTRANCE RD					472	472	1.50	No	No	Local	0.60	2.10
123	2,814	NORTH NIANTIC DR					618	618	1.50	No	No	Local	0.60	2.10
124	2,815	PARADISE LN				148	262	410	1.50	No	No	Local	0.60	2.10
125	2,816	TAMANACO DR					151	151	1.50	No	No	Local	0.60	2.10
126	3,260	DUDLEY LN				151	47	198	1.50	No	No	Local	0.60	2.10
127	3,261	LAND HARBOR RD				136	47	183	1.50	No	No	Local	0.60	2.10
128	3,262	NEPTUNE AVE				477	499	976	1.50	No	No	Local	0.60	2.10
129	3,263	THOMAS ST			24	186	352	562	1.50	No	No	Local	0.60	2.10
		Total Linear Feet	98,255	8,598	15,534	15,856	18,784	157,027						



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

Town of Charlestown

Map Created: 8/10/2016

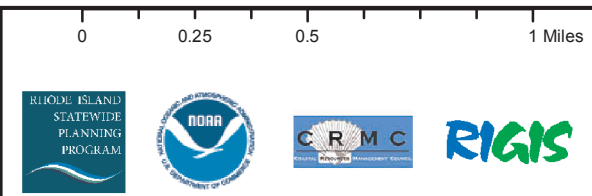
Map Legend

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 | 100-Year Storm Event | City and Town Boundaries |
| Freeboard Unlikely to be Affected by Surge | 100-Year Plus 1 ft. of SLR | Roads |
| Not Exposed to Surge | 100-Year Plus 3 ft. of SLR | |
| Bridge Accessible | 100-Year Plus 5 ft. of SLR | |
| Possible Bridge Access Problem | 100-Year Plus 7 ft. of SLR | |



Map Disclaimer: This map is not the product of a Professional Land Survey. It was created by RI Statewide Planning Program for general reference, informational, planning and 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. RI Statewide Planning Program makes no warranty, express or implied, related to the spatial accuracy, reliability, completeness, or currentness of this map.

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

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	52	Charlestown Beach Road	CHARLESTOWN BCH RD	PERRY CREEK	-144	MHHW	Problem	5.00	No	Yes	566	1.60	6.60
2	108	Cross Mills	US 1A OLD POST RD	MILL CANAL	-83	Water	Problem	4.50	No	No	2,500	0.60	5.10