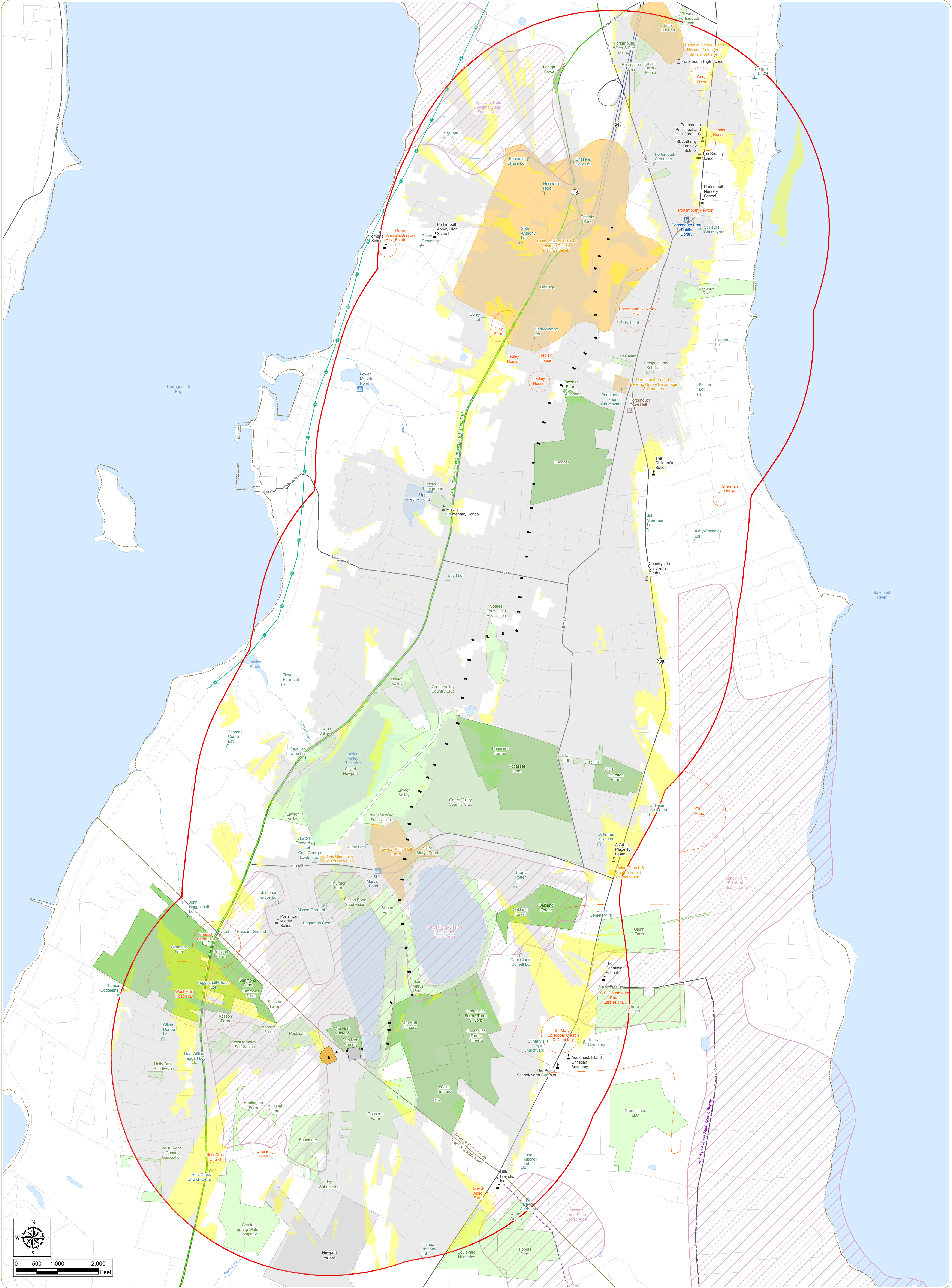


Appendix A

Viewshed/Sensitive Site Map
and
Sensitive Site Table



Aquidneck Island Reliability Project

Towns of Portsmouth and Middletown, Newport County, Rhode Island

Appendix A: Viewshed Analysis and Visually Sensitive Resources

























March 2015

Notes: 1. Basemap: ESRI StreetMap North America, 2008.
2. This is a color graphic. Reproduction in grayscale may misrepresent the data.




































- Proposed Pole Location
 - Proposed Jepson Substation
 - Existing Jepson Substation
 - Visual Study
 - Town Boundary
- Project Visibility Based on Topography and Vegetation


































 - Existing Visibility (Area that already has a View of Existing Transmission Structures)
 - Newly Visible Area (Area without View of Existing Transmission Structures)
- ⛪ Cemetery
 - 📖 Library
 - 🎓 School
 - 🏛️ Town Hall
 - 💧 Water
 - 🚲 Bike Path
 - State Scenic Byway
 - National Historic Trail
- 🌿 State Scenic
 - 🏡 Historic Site/District
 - 🏠 Historic Candidate Site
 - ✈️ Airport
 - 🌳 State Conservation Land
 - 🌳 Local Park/Conservation Land
 - 🏘️ City or Village



Visually Sensitive Resource	Location		VP Number ¹	Distance ²	Distance Zone	Project Visibility		
	Town	County				+ Visible	- Not Visible	+/- Partially Visible
				Miles from Nearest Structure	 Foreground  Midground  Background	Topographic Viewshed ³	Topographic & Vegetation Viewshed ³	Field Review ⁴
Properties listed on or eligible for inclusion in the National or State Register of Historic Places								
Washington-Rochambeau Revolutionary Route National Historic Trail	Portsmouth and Middletown	Newport	8, 10, 34, 37, 47, 101, 103, 108, 111, 112, 116	0.1		+/-	+/-	+/-
Lawton-Almy-Hall Farm	Portsmouth	Newport	95-99	0.0		+	+/-	+
Portsmouth Friends Meeting House/Parsonage & Cemetery	Portsmouth	Newport	22	0.2		+	+/-	+/-
Battle of Rhode Island Historic District Main Battlefield	Portsmouth	Newport	4-6, 11-15, 108	0.0		+/-	+/-	+/-
Oak Glen/Julia Ward Howe HS	Portsmouth	Newport		0.3		+/-	+/-	-
Battle of Rhode Island Historic District/Fort Butts & Butts Mill	Portsmouth	Newport	9	0.8		+/-	+/-	+/-
Union Church & Southernmost Schoolhouse	Portsmouth	Newport	55	0.9		+/-	+/-	-
<i>Historic Candidate Sites</i>								
Sherman House	Portsmouth	Newport		0.8		-	-	-
Chase House	Middletown	Newport	109	0.5		+	-	-
Hedley House	Portsmouth	Newport	20	0.1		+	+/-	+
Holy Cross Church	Middletown	Newport	111	0.7		+	+	-
Portsmouth-Newton H.D.	Portsmouth	Newport	3, 19	0.1		+/-	+/-	+/-
Cory Farm	Portsmouth	Newport	1	0.3		+/-	+/-	-
West Main Road H.D.	Middletown	Newport	115, 117	0.4		+/-	+/-	-
S.E. Portsmouth Rural Estates H.D.	Portsmouth	Newport	63, 66-70	0.5		+/-	+/-	+/-
St. Marys Episcopal Church & Cemetery	Portsmouth	Newport	67, 69, 70	0.6		+/-	+/-	+/-
Dennis House	Portsmouth	Newport	2	0.6		+/-	+/-	-
Prescott Farm H.D.	Portsmouth and Middletown	Newport	116	0.6		+/-	+/-	-
Green Animals/Brayton Estate	Portsmouth	Newport		0.9		+/-	-	-
Glen Road H.D.	Portsmouth	Newport		1.0		+/-	+/-	-
David Albro Farm	Middletown	Newport	72	0.8		+	+/-	-
State Parks								
None in Study Area								
National Wildlife Refuges and State Wildlife Management Areas								
None in Study Area								
National Natural Landmarks								
None in Study Area								
National Parks, Recreation Areas, Seashores and/or Forests								
None in Study Area								

Visually Sensitive Resource	Location		VP Number ¹	Distance ²	Distance Zone	Project Visibility		
	Town	County				+ Visible - Not Visible +/- Partially Visible		
				Miles from Nearest Structure	● Foreground ● Midground ● Background	Topographic Viewshed ³	Topographic & Vegetation Viewshed ³	Field Review ⁴
National or State Designated Wild, Scenic, or Recreational Rivers								
None in Study Area								
Sites, Areas, Lakes, Reservoirs or Highways Designated or Eligible as Scenic								
Marys Pond/Sission Pond State Scenic Area	Portsmouth and Middletown	Newport	61, 64, 87-89, 91, 92, 94, 110, 113-116, 133, 134, 144, 145	0.0	●	+/ -	+/ -	+
Hessians Hole Swamp State Scenic Area	Portsmouth	Newport		0.3	●	+/ -	+/ -	-
Sandy Point Rd. State Scenic Area	Portsmouth and Middletown	Newport	68	0.7	●	+/ -	+/ -	-
Paradise Avenue State Scenic Byway	Portsmouth and Middletown	Newport		0.8	●	+/ -	-	-
Mitchell Lane State Scenic Area	Portsmouth and Middletown	Newport		0.9	●	+/ -	+/ -	-
State Conservation Land								
Escobar Farm	Portsmouth	Newport	26	0.0	●	+	+/ -	+
Pocasset Farm	Portsmouth	Newport	56	0.0	●	+	+/ -	-
Van Hoff Nursery	Portsmouth	Newport	86, 124, 131, 132, 135-137	0.0	●	+	+/ -	+
Green End Farm / Three S. Corp.	Portsmouth	Newport		0.2	●	+	+/ -	+
Wicks Nursery	Portsmouth	Newport		0.2	●	+	+/ -	+
Oakland Forest	Portsmouth	Newport		0.4	●	+	+/ -	-
Simmons Farm	Middletown	Newport	115-117	0.3	●	+/ -	+/ -	-
Thurston Farm	Portsmouth	Newport	54	0.7	●	+/ -	+/ -	-
Lehigh Grove	Portsmouth	Newport		0.7	●	+/ -	+/ -	-
Locally Important Resources								
Transportation Corridors								
SR 24	Portsmouth	Newport	108	0.1	●	+/ -	+/ -	+/ -
SR 114	Portsmouth and Middletown	Newport	8, 10, 34, 37, 47, 101, 103, 108, 111, 112, 116	0.1	●	+/ -	+/ -	+/ -
SR 138	Portsmouth and Middletown	Newport	1, 2, 22, 24, 63, 68, 70-72	0.2	●	+/ -	+/ -	-
Recreation Resources								
Local Conservation Land, Parks, and Playgrounds								
Town of Portsmouth Green	Portsmouth	Newport		1.0	●	-	-	-
Peaceful Way Subdivision	Portsmouth	Newport		0.1	●	+	+/ -	+
Patriots Park	Portsmouth	Newport	108	0.1	●	+	+	+/ -
St. Mary's Pond Fishing Access	Portsmouth	Newport	94, 95	0.1	●	+	+	+
Prospect Lane Subdivision	Portsmouth	Newport		0.3	●	+	+	-
Upper Melville Pond Fishing Access	Portsmouth	Newport		0.4	●	+	+	-

Visually Sensitive Resource	Location		VP Number ¹	Distance ²	Distance Zone	Project Visibility		
	Town	County				+ Visible	- Not Visible	+/- Partially Visible
				Miles from Nearest Structure	 Foreground  Midground  Background	Topographic Viewshed ³	Topographic & Vegetation Viewshed ³	Field Review ⁴
West Meadow Subdivision	Middletown	Newport		0.4		+	+	-
Lilac Hill	Portsmouth	Newport		0.5		+	+	-
Recreation Area	Portsmouth	Newport		0.6		+	+	-
Fort Hill Farm / Menzi	Portsmouth	Newport		0.8		+	+	-
Portsmouth Water & Fire District	Portsmouth	Newport		0.8		+	+	-
Unity Drive Subdivision	Middletown	Newport		0.8		+	+	-
Huntington Farm	Middletown	Newport	110	0.4		+/-	-	-
Greenscape LLC	Portsmouth	Newport		1.0		+	-	-
Albro Woods	Middletown	Newport		0.9		-	-	-
Tibbets Farm	Middletown	Newport		1.0		-	-	-
Escobar	Portsmouth	Newport	26	0.0		+	+/-	+
Soares Farm - FLJ Acquisition	Portsmouth	Newport		0.0		+	+/-	+
Green Valley Country Club	Portsmouth	Newport	60, 62, 55	0.0		+	+/-	+/-
Pocasset Farms	Portsmouth	Newport	56	0.0		+	+/-	-
Saint Marys Pond	Portsmouth	Newport	96-98	0.0		+	+/-	+
Sisson Pond	Portsmouth and Middletown	Newport		0.0		+	+/-	+
Van Hoff Nursery	Portsmouth	Newport	86, 131, 132, 135-137, 124	0.0		+	+/-	+
DeCastro	Portsmouth	Newport	18	0.1		+	+/-	+
Cousens Farm	Portsmouth and Middletown	Newport		0.1		+	+/-	+
Green End Farm - Three S. Corp.	Portsmouth	Newport		0.2		+	+/-	+
Wicks Nursery	Portsmouth	Newport		0.2		+	+/-	+
Sanctuary	Middletown	Newport		0.2		+	+/-	-
Oakland Forest	Portsmouth	Newport		0.4		+	+/-	-
Prescott Farm	Middletown	Newport	116	0.4		+	-	-
Turnpike Avenue Playground	Portsmouth	Newport		0.3		+	+	-
Lawton Valley	Portsmouth	Newport	102, 104	0.0		+/-	+/-	+
City of Newport Conservation Land	Portsmouth	Newport	102, 103	0.1		+/-	+/-	+
Sisson Pond Subdivision	Portsmouth	Newport	91	0.1		+/-	+/-	+
Thurston Farm	Portsmouth	Newport		0.2		+/-	+/-	-
Heritage	Portsmouth	Newport		0.3		+/-	+/-	+/-
Sakonnet River	Portsmouth	Newport		0.4		+/-	+/-	-
Simmons Farm	Middletown	Newport	115-117	0.4		+/-	+/-	-
Crystal Spring Water Company	Middletown	Newport		0.6		+/-	+/-	-

Visually Sensitive Resource	Location		VP Number ¹	Distance ²	Distance Zone	Project Visibility		
	Town	County				+ Visible	- Not Visible	+/- Partially Visible
				Miles from Nearest Structure	 Foreground  Midground  Background	Topographic Viewshed ³	Topographic & Vegetation Viewshed ³	Field Review ⁴
Silvia	Portsmouth	Newport	54	0.7		+/-	+/-	-
Three S Field	Portsmouth	Newport		0.8		+/-	+/-	-
Lower Melville Pond Fishing Access	Portsmouth	Newport		0.8		+/-	-	-
Glenn Farm	Portsmouth	Newport	63	0.9		+/-	+/-	-
Boulevard Nurseries	Middletown	Newport		0.9		+/-	+/-	-
Butts Hill Fort	Portsmouth	Newport		0.9		+/-	+/-	-
West Ridge Condo Association	Middletown	Newport		0.9		+/-	+/-	-
Peckham	Middletown	Newport	113, 114	0.1		+	+/-	-
Kesson Farm	Middletown	Newport		0.3		+	+/-	-
Melville Playground	Portsmouth	Newport		0.4		+	+/-	-
Ivy Subdivision	Middletown	Newport		0.5		+	+/-	-
<i>Trails</i>								
Aquidneck Island Bike Path	Portsmouth	Newport		0.9		+/-	+/-	-
<i>Lakes and Rivers</i>								
Narragansett Bay	Portsmouth and Middletown	Newport		0.9		-	-	-
Lawtons Valley Reservoir	Portsmouth	Newport		0.2		+/-	+/-	+
Lawton Brook	Portsmouth	Newport		0.4		+/-	+/-	-
Sakonnet River	Portsmouth and Middletown	Newport		0.7		+/-	+/-	-
Melville Ponds	Portsmouth	Newport		0.8		+/-	-	-
Bailey Brook	Middletown	Newport		0.5		+	+/-	-
St Marys Pond Reservoir	Portsmouth	Newport		0.0		+	+/-	+
Sisson Pond	Portsmouth and Middletown	Newport		0.0		+	+/-	+
Schools and Colleges								
Portsmouth Middle School	Portsmouth	Newport		0.5		+	+	+/-
Portsmouth High School	Portsmouth	Newport		0.8		+	+	-
The Poplar School-North Campus	Portsmouth	Newport		0.7		+/-	-	-
Aquidneck Island Christian Academy	Portsmouth	Newport	70	0.7		+	-	-
Portsmouth Nursery School	Portsmouth	Newport		0.4		+/-	+/-	-
Melville Elementary School	Portsmouth	Newport		0.4		+/-	+/-	-
The Children's School	Portsmouth	Newport		0.5		+/-	+/-	-
Countryside Children's Center	Portsmouth	Newport		0.5		+/-	+/-	-
The Bradley School	Portsmouth	Newport	2	0.5		+/-	+/-	-
St. Anthony Bradley School	Portsmouth	Newport		0.5		+/-	+/-	-

Visually Sensitive Resource	Location		VP Number ¹	Distance ²	Distance Zone	Project Visibility		
	Town	County		Miles from Nearest Structure	<div><div>●</div> Foreground</div> <div><div>●</div> Midground</div> <div><div>●</div> Background</div>	+ Visible - Not Visible +/- Partially Visible		
						Topographic Viewshed ³	Topographic & Vegetation Viewshed ³	Field Review ⁴
Portsmouth Preschool and Child Care LLC	Portsmouth	Newport	2	0.5	●	+/-	+/-	-
Portsmouth Abbey High School	Portsmouth	Newport		0.7	●	+/-	+/-	-
The Pennfield School	Portsmouth	Newport		0.8	●	+/-	+/-	-
Little Friends, Inc.	Middletown	Newport		0.8	●	+/-	+/-	-
St. Philomena School	Portsmouth	Newport		0.9	●	+/-	+/-	-
A Great Place To Learn	Portsmouth	Newport		0.9	●	+	+	-
Cemeteries								
Portsmouth Friends Churchyard	Portsmouth	Newport	22	0.2	●	+	+	-
Portsmouth Cemetery	Portsmouth	Newport		0.3	●	+	+	-
St Paul's Churchyard	Portsmouth	Newport		0.4	●	+	+	-
St Mary's Epis. Churchyard	Portsmouth	Newport		0.6	●	+/-	+/-	+/-
Holy Cross Church Cem.	Middletown	Newport	111	0.7	●	+/-	+/-	-
Trinity Cemetery	Portsmouth	Newport	67	0.8	●	+/-	+/-	-
Priory Cemetery	Portsmouth	Newport		0.8	●	+/-	-	-
Union Cemetery	Portsmouth	Newport		0.9	●	+/-	+/-	+/-
Other Local Resources								
Portsmouth Town Hall	Portsmouth	Newport		0.3	●	+	+	-
Portsmouth Free Public Library	Portsmouth	Newport	3	0.3	●	+/-	+/-	-
Newport Airport	Middletown	Newport	81	0.6	●	+/-	+/-	+

¹ If no viewpoint (VP) number is indicated, no photo was obtained during fieldwork.

² For large areas and linear sites, approximate distance to the nearest transmission structure was measured from the respective area's closest point.

³ Yellow shading indicates that the viewshed analysis results showed an expanded area of transmission line visibility over existing conditions.

⁴ Analysis of potential project visibility during field review was based on visibility of the existing (to be rebuilt) transmission line, as well as assumptions regarding potential visibility of the rebuilt (taller) transmission line based on the extent of screening provided by topography, vegetation, buildings, and other structures or objects.