

G. Project Portfolio

During Phase 2, the consulting team worked with the CAT and community members to identify, plan, and prioritize a number of projects to increase the resiliency of the community. The identified projects address vulnerabilities identified in the RVA. In addition to infrastructure actions, policy based, and nature-based solutions were considered.

<i>Project Name</i>	<i>Relocate Pamlico County Middle School</i>	
Project Description	School has been flooded twice in 10-years. Each time damaged >50% tax value; no flood insurance for one incident. Ineligible for HMP and FMA. Tied for 3rd most vulnerable facility. Project is to redevelop the less vulnerable elementary school property to combine elementary and middle school.	
Natural/Nature-Based?	No	
Hazard(s) addressed by project	Flooding (rainfall/tidal/riverine)	
Type of Solution	Infrastructure	
Project Estimated Cost	Very High (\$500,000+)	The county estimates the total cost at around \$75M
Potential Implementation Funding Sources		
Projected Estimated Timeline	24+ months	
Priority Rating	High	
Project Map or Location	See Figure 15 for relocation site.	

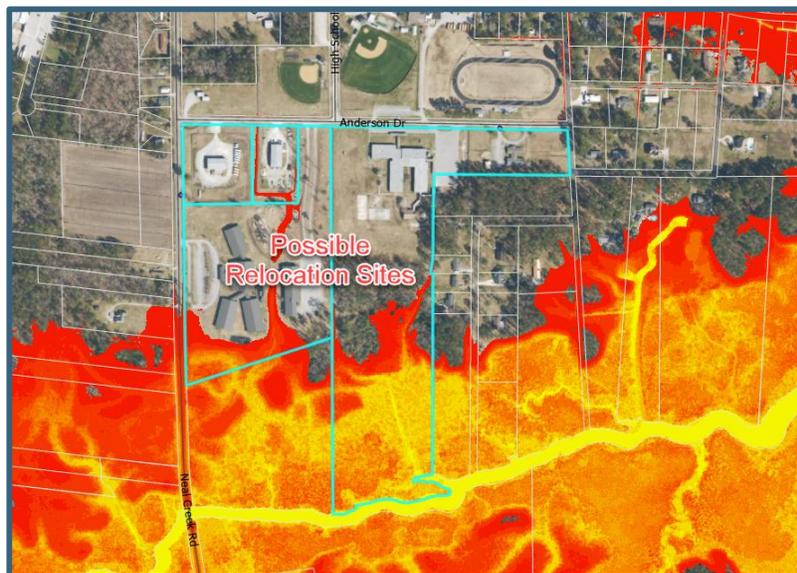


Figure 15: Elevation Map showing 100-year floodplain in relation to Middle School Relocation Sites

<i>Project Name</i>	<i>Undergrounding of Electric</i>	
Project Description	Move electrical service lines from aerial to underground. Power poles regularly lean or fall due to constant ground saturation.	
Natural/Nature-Based?	No	
Hazard(s) addressed by project	Flooding (rainfall/tidal/riverine)	Wind
Type of Solution	Infrastructure	
Project Estimated Cost	Very High (\$500,000+)	
Potential Implementation Funding Sources	FEMA Hazard Mitigation	
Projected Estimated Timeline	24+ months	
Priority Rating	High	
Project Map or Location	Power lines located along Highway 55 starting around Callison Road. Around 2.25 miles in length. See Figure 16 .	

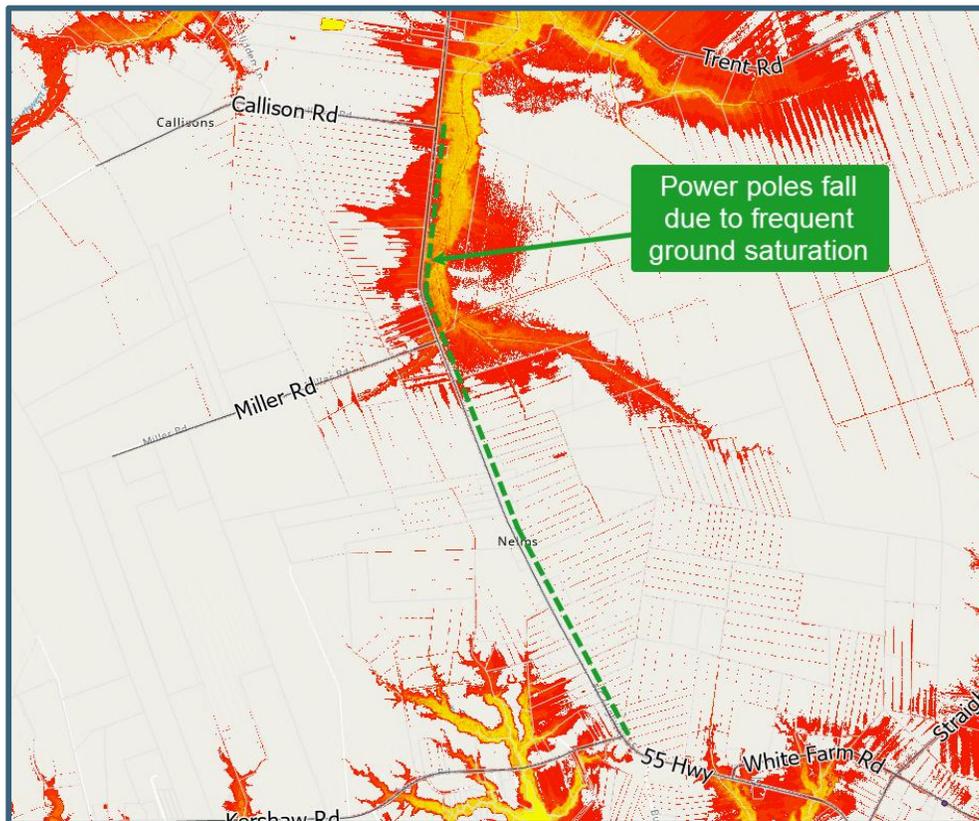


Figure 16: Proposed undergrounding of powerlines along Callison Road

<i>Project Name</i>	<i>Drainage, Ditch, and Tributary Dredging and Maintenance Program</i>	
Project Description	Develop long term financial model and maintenance schedule for drainage and conveyance system. Implement changes to County codes as necessary to enable easement acquisition and maintenance access.	
Natural/Nature-Based?	No	
Hazard(s) addressed by project	Flooding (rainfall/tidal/riverine)	
Type of Solution	Infrastructure	Plans and policies
Project Estimated Cost	Very High (\$500,000+)	High cost for perpetual maintenance.
Potential Implementation Funding Sources	None identified at this time	
Projected Estimated Timeline	24+ months	
Priority Rating	High	
Project Map or Location	Countywide	

<i>Project Name</i>	<i>Consolidation of Government Facilities for Reduced Vulnerability</i>	
Project Description	Program to study and implement consolidation of vulnerable critical government facilities to reduce overall vulnerability	
Natural/Nature-Based?	No	
Hazard(s) addressed by project	Flooding (rainfall/tidal/riverine)	
Type of Solution	Infrastructure	Plans and policies
Project Estimated Cost	Very High (\$500,000+)	Cost of study low compared to cost of actual consolidation activities.
Potential Implementation Funding Sources	None identified at this time	
Projected Estimated Timeline	24+ months	
Priority Rating	High	
Project Map or Location	Distributed across multiple County owned properties.	

<i>Project Name</i>	<i>Future Land Use Planning (LUP)</i>	
Project Description	Develop LUP to incorporate policies to improve resiliency. Overarching premise is to avoid new vulnerabilities, address existing vulnerabilities, and incorporate coastal hazards into vulnerability strategy	
Natural/Nature-Based?	No	
Hazard(s) addressed by project	Flooding, sea level rise, wind, and storm surge	
Type of Solution	Plans and policies	Ordinances
Project Estimated Cost	Medium (\$50,000-\$200,000)	
Potential Implementation Funding Sources		
Projected Estimated Timeline	6-12 months	
Priority Rating	Medium	
Project Map or Location	N/A	

<i>Project Name</i>	<i>Drainage Infrastructure Study</i>	
Project Description	Inventory major drainage culverts, rapid hydrologic / hydraulic capacity assessment, develop maintenance and upgrade program	
Natural/Nature-Based?	No	
Hazard(s) addressed by project	Flooding (rainfall)	Flooding (riverine)
Type of Solution	Plans and policies	
Project Estimated Cost	Medium (\$50,000-\$200,000)	
Potential Implementation Funding Sources		
Projected Estimated Timeline	12-24 months	
Priority Rating	Medium	
Project Map or Location	Countywide at various locations; major FEMA mapped crossings prioritized.	

<i>Project Name</i>	<i>Road Vulnerability Study</i>	
Project Description	Study to quantify vulnerability at major county roads based on criticality, frequency of flooding, duration of flooding. Prioritize vulnerable roads; comparative hydraulic; prioritization of road related resiliency initiatives; more competitive with DERPO funding.	
Natural/Nature-Based?	No	
Hazard(s) addressed by project	Flooding (rainfall/tidal/riverine)	
Type of Solution	Plans and policies	
Project Estimated Cost	Medium (\$50,000-\$200,000)	May be combined with Drainage Infrastructure Study for more cost effectiveness.
Potential Implementation Funding Sources		
Projected Estimated Timeline	6-12 months	
Priority Rating	Low	
Project Map or Location	Countywide at various locations; major FEMA mapped crossings prioritized.	

<i>Project Name</i>	<i>Living Shorelines</i>	
Project Description	Construct living shorelines to reduce erosion and dissipate wave energy along the coastline.	
Natural/Nature-Based?	Yes	
Hazard(s) addressed by project	Storm Surge	Wind
Type of Solution	Infrastructure	
Project Estimated Cost	Very High (\$500,000+)	
Potential Implementation Funding Sources	None identified at this time.	
Projected Estimated Timeline	24+ months	
Priority Rating	Low	
Project Map or Location	See Figure 17 , Figure 18 , and Figure 19 .	



Figure 17: Proposed Dawson's Creek Living Shoreline



Figure 18: Proposed River Road Bridge Abutments Living Shoreline



Figure 19: Proposed Wiggins Point Road Living Shoreline

<i>Project Name</i>	<i>Raise road to 100-yr floodplain elevation</i>	
Project Description	Raise road elevations to reduce frequency of overtopping.	
Natural/Nature-Based?	No	
Hazard(s) addressed by project	Flooding (rainfall/tidal/riverine)	Sea level rise
Type of Solution	Infrastructure	
Project Estimated Cost	Very High (\$500,000+)	
Potential Implementation Funding Sources	BRIC	
Projected Estimated Timeline	24+ months	
Priority Rating	High	
Project Map or Location	Roads on Figure 20 , Figure 21 , Figure 22 , Figure 23 shaded in yellow or red. Four areas: Goose Creek Island (7 miles) Florence/Whortonsville Road (9 miles), Callison Road (500 feet), New Ditch Farm Road (700 feet).	

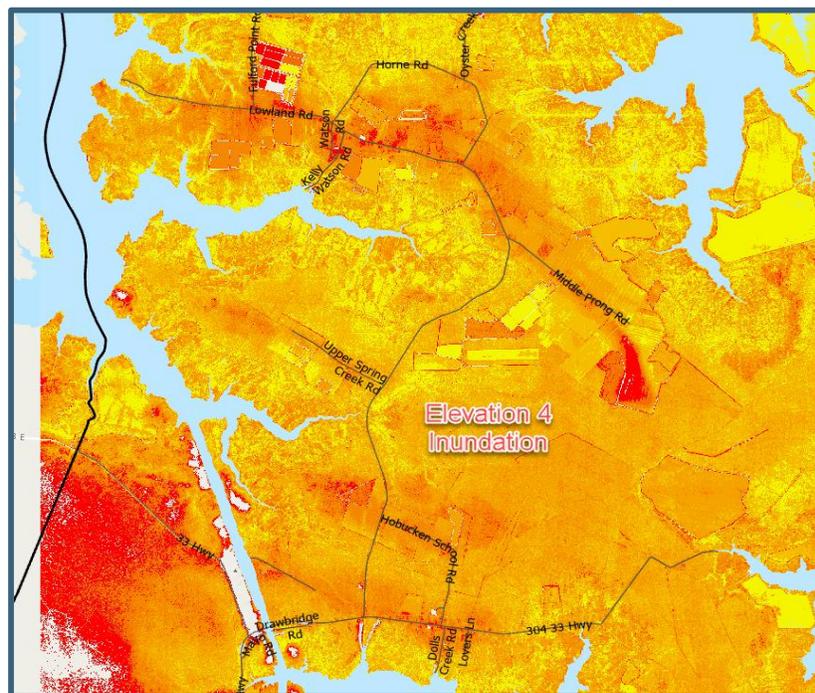


Figure 20: Goose Creek elevation map showing roads in the 100-year floodplain

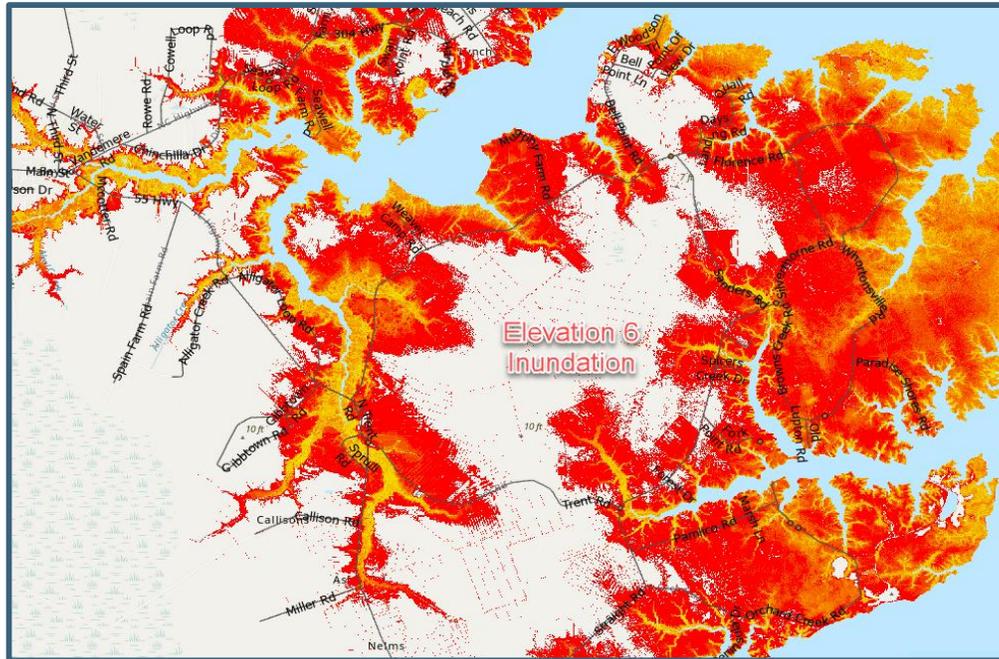


Figure 21: Florence/Whortonsville Road elevation map showing roads in the 100-year floodplain

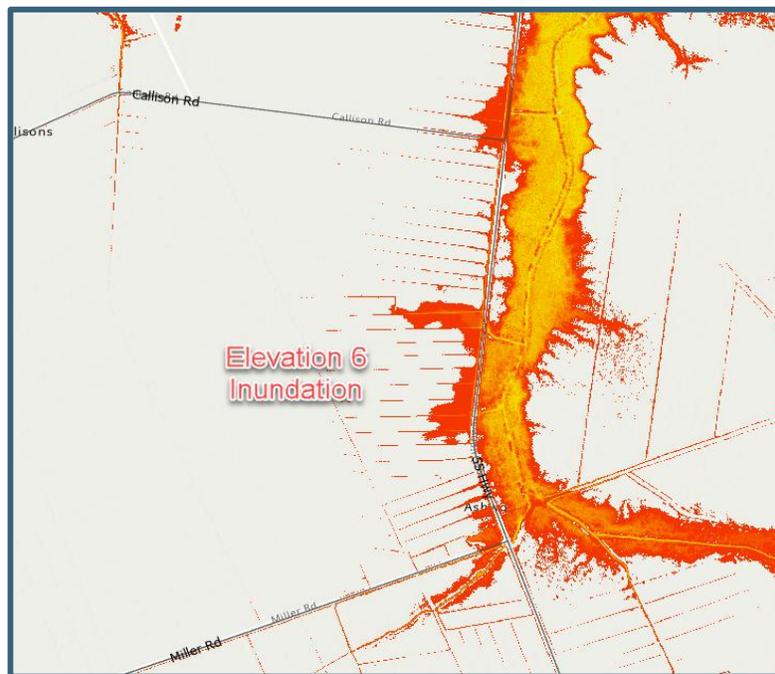


Figure 22: Callison Road elevation map showing sections in the 100-year floodplain

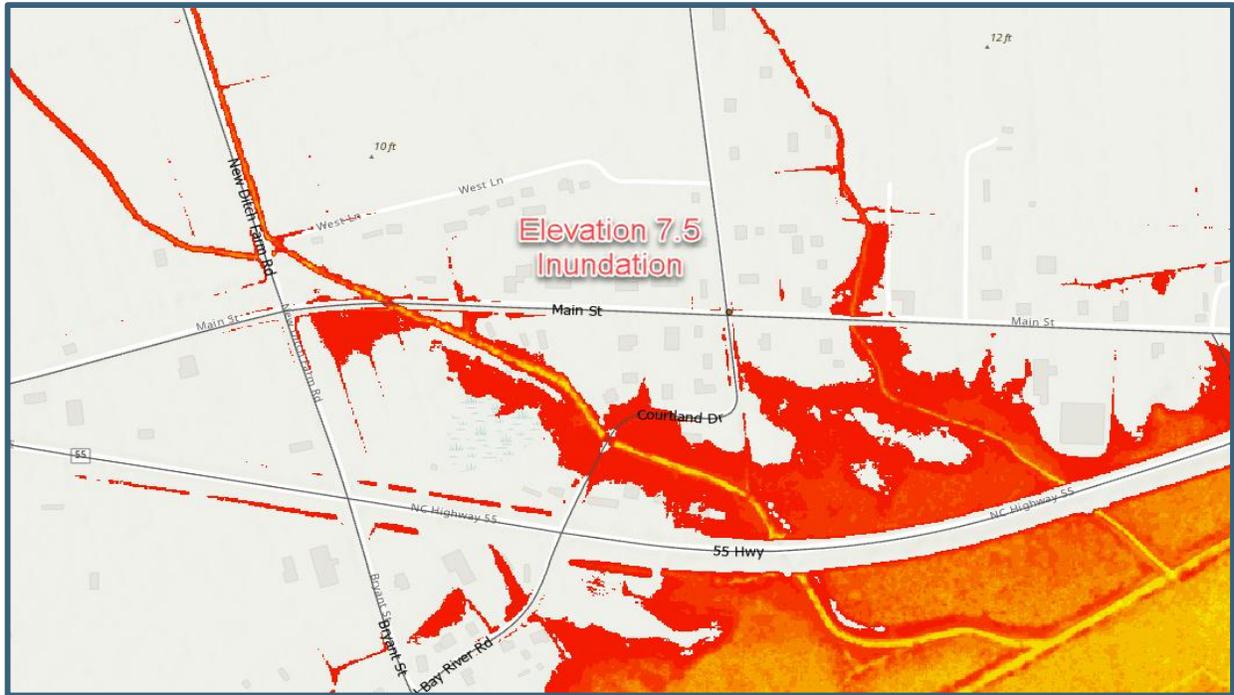


Figure 23: New Ditch Farm Road elevation map showing sections in the 100-year floodplain