

Prosperity Village Northwest Thoroughfare Extension



The National Environmental Policy Act (NEPA) requires consideration of environmental impacts to federally-funded projects. The NEPA process takes into account both environmental and economical issues in order to promote the best use of a community's land and resources. An Environmental Impacts Matrix has been developed to compare impacts of the viable alternatives for the Prosperity Village NW Thoroughfare Extension. This screening will assist in determining the corridor alternatives which are most viable and will be summarized in the Draft Environmental Assessment (EA). The matrix below includes data collected from field surveys and Geographic Information Systems (GIS) databases. Impact calculations were based on the proposed Right-of-Way boundaries.

Prosperity Village NW Thoroughfare Extension Environmental Impacts Matrix					
Potential Impact Category		Alternatives			
		1	2	4	8
Relocations ¹	Residences	15	9	8	8
	Businesses	0	0	0	0
Low-income or Minority Populations ²		0	8	7	8
Farmland ³ (acres)	Prime	13.4	13.5	13.7	13.6
	Statewide Importance	0.9	0.8	0.8	0.8
Wetlands (acres) ⁴		1.05	0.84	0.74	0.84
Intermittent Streams ⁴ (linear feet)		0	0	0	0
Perennial Streams ⁴ (linear feet)		64	64	64	64
Total Streams ⁴ (linear feet)		64	64	64	64
Stream Crossings ⁴		1	1	1	1
Floodplain ⁵ (acres)	100-year flood, Zone A, Zone AE, the floodway, and Zone X	0	0	0	0
Water Supply Critical Areas ⁶		0	0	0	0
Impaired Waters 303(d) Listing ⁶		0	0	0	0
Federally Protected Species ⁷		0	0	0	0
State Historic Preservation Office (SHPO) National Register Districts and National Register Points ⁸		0	0	0	0
Significant Archeological Sites ⁹		1	1	1	1
Section 4(f) Resources and Section 6(f) ¹⁰ (Publicly-owned parks and recreation lands, wildlife and water- fowl refuges, and historic sites)		0	0	0	0
Cemeteries ¹¹		0	0	0	0
Churches/Religious Facilities ¹¹		0	0	0	0
Schools ¹¹		0	0	0	0
Hazardous Materials Sites ¹²		0	0	0	0
Developmental Potential (Indirect Impacts)		High	High	High	High
Length in linear feet (miles) (<i>not including sub- division extensions</i>)		3,697 (0.70)	3,611 (0.68)	3,537 (0.67)	3,668 (0.69)
Right-of Way Area	Acres	14.9	14.8	14.8	14.8
	Parcels	49	31	25	28

- ¹ Mecklenburg County GIS (buildings shapefile)
- ² Community Characteristics Report (CCR) submitted by ARCADIS
- ³ Natural Resources Conservation Service (NRCS) GIS (Mecklenburg County Soil Survey)
- ⁴ Carolina Wetland Services Delineation
- ⁵ Mecklenburg County GIS (floodway shapefile)
- ⁶ NC Department and Natural Resources (NCDENR) Division of Water Quality (DWQ)
- ⁷ Carolina Wetland Services Protected Species Survey
- ⁸ SHPO GIS (National Register shapefiles) and from onsite historical and archeological surveys – No locations are eligible to be listed on the National Register.
- ⁹ TRC Environmental Archeological Survey Draft Report indicated a potential for unmarked graves within, south, and west of the marked cemetery boundaries.
- ¹⁰ Mecklenburg County GIS (parks shapefile)
- ¹¹ Mecklenburg County GIS (parcel_taxdata shapefile)
- ¹² NCDENR GIS (RUST_MRO & HW_Sites)