

Implementation Guide

Part II

Port II Implementation Guide

Introduction

Achieving the vision articulated in this plan will occur incrementally over time through the combined efforts of local/state government, private property owners, residents, developers and many others. This Implementation Guide is primarily a staff document that outlines specific steps that can be taken by various public and private bodies so that the future envisioned in this plan may be realized. These strategies are listed in the table that follows. The lead responsible agency and tentative time frame is also included. The strategies are numbered sequentially and correspond to the policies discussed in the Concept Plan. This allows staff to track progress of the plan's policies over time.

Some strategies are physical such as installing sidewalks and building new thoroughfare alignments like Carowinds Boulevard Extension. Other strategies involve continued enforcement of adopted City policies and regulations such as the Post Construction Controls Ordinance that deals with the effects of storm water runoff; still others consider policy or ordinance changes to accommodate new policy recommendations, such as a zoning ordinance change to allow for increased retail use in marinas.

These implementation strategies do not imply a specific public or private sector commitment. The Charlotte City Council will not be asked to adopt this implementation Guide. However, many of the strategies in this section will require future action by elected officials and will be presented to them for approval as needed on a case-bycase basis.

Finally, since conditions change over time, staff will periodically update this Implementation Guide to reflect changes and progress.

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Recommended Implementation Strategies

The number of each action corresponds to the policies beginning on page 12 of the Concept Plan.

Policy Number	Action Item	Project Type	Lead Agency	Time Frame
	Land Use & Communit	y Design		
1-20	Use land use and community design poli- cies to guide and evaluate development proposals.	Zoning	Planning	as devel- opment occurs
10a	Work with Planning GIS staff to modify the Centers, Corridors and Wedges boundary layer reflecting the changes adopted for the RiverGate Mixed-Use Ac- tivity Center, as indicated on Graphic 1.	Zoning	Planning	Within 1 month of Plan Adoption
11a	Work with Planning GIS staff to mod- ify the Center, Corridors and Wedges boundary layer reflecting the changes adopted for the Westinghouse Industrial Activity Center, as indicated on Graphic 2.	Zoning	Planning	Within 1 month of Plan Adoption
12a	Work with Planning GIS staff to modify the Centers, Corridors and Wedges boundary layer reflecting the changes adopted for the Whitehall / Ayrsley Mixed- Use Activity Center, as indicated on Graphic 3.	Zoning	Planning	Within 1 month of Plan Adoption
13a	Work with Planning GIS staff to mod- ify the Center, Corridors and Wedges boundary layer reflecting the changes adopted for the Sopton Road Industrial Activity Center, as indicated on Graphic 4.	Zoning	Planning	Within 1 month of Plan Adoption
14-20	Consider appropriate zoning ordinance revisions including those recommenda- tions in the Residential Design Standards (RDS), and the Heighs in Residential Districts (H.I.R.D.) stakeholder processes currently underway.	Zoning	Planning	Short (0-5 yr)

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Policy Number	Action Item	Project Type	Lead Agency	Time Frame
	Transportation and Str (see table on page 56 for estimated o		ovements)	
21	Upgrade Farm-to-Market Roads as shown on Map 4, farm-to-market up- grades include: -Choate Circle -Hamilton Road -Sandy Porter Road -Shopton Road and Shopton Road West -Sledge Road -Smith Road -Youngblood Road -Zoar Road	Transp.	CDOT / Planning	as devel- opment occurs and/ or as funding becomes available
22	 Extend Carowinds Blvd. from S. Tryon Street (NC 49) to Sam Neely and Winget Roads. Widen Carowinds Blvd. [2 to- 4 lanes] from S. Tryon Street (NC 49) to Choate Circle. Widen S. Tryon Street (NC 49) [4 to 6 lanes] from Arrowood Road to Steele Creek Road (NC 160) Widen Steele Creek Road (NC 160) [2 to 4 lanes] from Shopton Rd. West to State Line (S.C.) 	Transp.	CDOT / E&PM	as devel- opment occurs
23	Work with MPO staff to amend Thorough- fare Plan to reflect recommendation to re- align Choate Circle to South Tryon Street.	Transp.	CDOT / E&PM / Planning	Short (0-5 yr)
24	 Enhance the following intersections to improve traffic flow, area accessibility and safety; and further analyze their feasibility through the capital needs assessment process: -Carowinds Rd. at Choate Circle -Steele Creek Rd. at Brown Grier -Steele Creek Rd. (NC-160) at Sam Neely Rd. -Steele Creek Rd. (NC-160) at Sledge Rd. -Steele Creek Rd. (NC-160) at Westinghouse Blvd. -Steele Creek Rd. (NC-160) at I-485 -S. Tryon Street (NC-49) at Carowinds Blvd. -S. Tryon Street (NC-49) at Shopton Rd. -S. Tryon Street (NC-49) at Steele Creek Rd. (NC-160) -S. Tryon Street (NC-49) at Steele Creek Rd. (NC-160) -S. Tryon Street (NC-49) at Steele Creek Rd. (NC-160) -S. Tryon Street (NC-49) at Shopton Rd. -S. Tryon Street (NC-49) at Corsica Forest Dr. pending Choate Circle realignment -Westinghouse Blvd. at I-77 -S. Tryon (NC-49) at Grand Palisades 	Transp.	CDOT / E&PM / Planning	as funding becomes available and/or as devel- opment occurs
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Policy Number	Action Item	Project Type	Lead Agency	Time Frame
25	Work with petitioner in the rezoning process to request that key connector streets shown on Map 5, are provided as development occurs.	Transp.	CDOT / Planning	as devel- opment occurs
26	Work with petitioner in the rezoning pro- cess to facilitate cross-access and parral- lel connections along S. Tryon (NC-49).	Transp. / Zoning	CDOT / Planning	as devel- opment occurs
27	Work with MUMPO to review the major thoroughfare alignments of Carowinds Blvd. Extension and Youngblood Rd., and amend Thoroughfare Plan accordingly.	Trasp.	CDOT / Planning	Short (0-5 yr)
28	Construct new sidewalks along existing thoroughfares, refer to Maps 4 and 13.	Transp.	CDOT	as devel- opment occurs
29	Work with CDOT in identifiing areas in need of sidewalks within established resi- dential areas, and identify potential fund- ing sources to construct new sidwalks.	Transp.	CDOT	Short (0-5 yr) and on- going
30	Construct bicycle lanes along all thor- oughfares.	Transp.	CDOT	as devel- opment occurs
31	Complete Steele Creek Greenway	Transp.	Park & Rec / Planning	Long (>10 yrs)
32	Work with petitioners in the rezoning pro- cess to encourage bikeway connections to primary greenways.	Transp.	CDOT / Park & Rec / Planning	as devel- opment occurs
33	Work with petitioners in the rezoning process to develop a parrallel shared-use path or paved shoulders along Shopton Road West.	Transp.	CDOT / E&PM / Planning	as devel- opment occurs
34	Review expansion of transit to the plan area as part of CATS' next update to the 5-year Countywide Transit Services Plan.	Transp.	CATS / Planning	Medium (5-10 yr)

Policy Number	Action Item	Project Type	Lead Agency	Time Frame
	Infrastructure and Publi	c Facilities		
35-37	Continue to develop and maintain water and sewer systems needed to support the area's growth.	Utilities	CMU	Ongoing
35-37	Use land use and community design poli- cies, as well as information about existing and planned infrastructure to guide and evaluate development proposals.	Utilities	CMU	Ongoing
35-37	Replace Steele Creek pump station	Utilities	CMU	Medium (5-10 yr)
38-40	Develop Capps Community Park	Park	P&R	Medium (5-10 yr)
38-40	Develop Palisades Neighborhood Park	Park	P&R	Short (0-5 yr)
38-40	Develop Steele Creek, Walkers Branch, and Polk Ditch Greenways, as well as dedicate more areas for new greenways where possible.	Park	P&R	Ongoing
38-40	Work through the rezoning and subdivi- sion processes to support the devel- opment of public access points to the Catawba River, including boat ramps, picnic areas and public open space along the river.	Park	P&R	as devel- opment occurs
41-42	Construct Palisades Elementary School	Schools	CMS	Long (>10 yrs)
41-42	Construct middle school at Steele Creek Road site to serve southwest portion of the plan area	Schools	CMS	Long (>10 yrs)
41-42	Construct high school to serve southwest portion of the plan area.	Schools	CMS	Long (>10 yrs)
45	Construct regional library at the Shopton Road site	Public Facilities	PLCMC	Long (>10 yrs)
38-45	Work with civic infrastructure provid- ers such as libraries, parks and schools through the Joint Use Task Force (JUTF), to build facilities along major or minor thoroughfares in mixed-use areas, and seek new opportunities for joint use proj- ects.	Public Facilities	Planning / Police / Fire / Schools & Liba- rary	Ongoing

Policy Number	Action Item	Project Type	Lead Agency	Time Frame
	Environment			
46-50	Use the rezoning and subdivision process to implement land use and environmental policies.	Zoning	Planning	as devel- opment occurs
46-50	Continue to apply PCCO (Post Construc- tion Controls Ordinance) and other City regulations and policies that address the protection of environmentally sensitive areas that are impacted by storm water run-off.	Storm- water	E&PM	as devel- opment occurs
46-50	Limit the amount of land cleared, graded or compacted during the land develop- ment process to the maximum allowable built upon area, detailed in the watershed overlay zoning districts that apply	Land Develop- ment	E&PM	as devel- opment occurs
46-50	Continue to apply the City's Tree Or- dinance (and subsequent text amend- ments) in preserving the tree canopy, by ecouraging a 10% tree save requirement for residential sites and a 15% for com- merical sites	Zoning/ Tree Ord.	Plan- ning / E&PM	as devel- opment occurs
38-40; 46-50	Request easements and/or dedications during the land development process to expand the Greenways and passive open space.	Zoning/ Tree Ord.	Park & Rec./ Plan- ning / E&PM	as devel- opment occurs
48	Limit development in and around con- taminated sites to non-residential uses consistent with land use policies.	Zoning	Planning	as devel- opment occurs

Future Transportation Projects

See Map 5, Future Transportation Projects on following page.

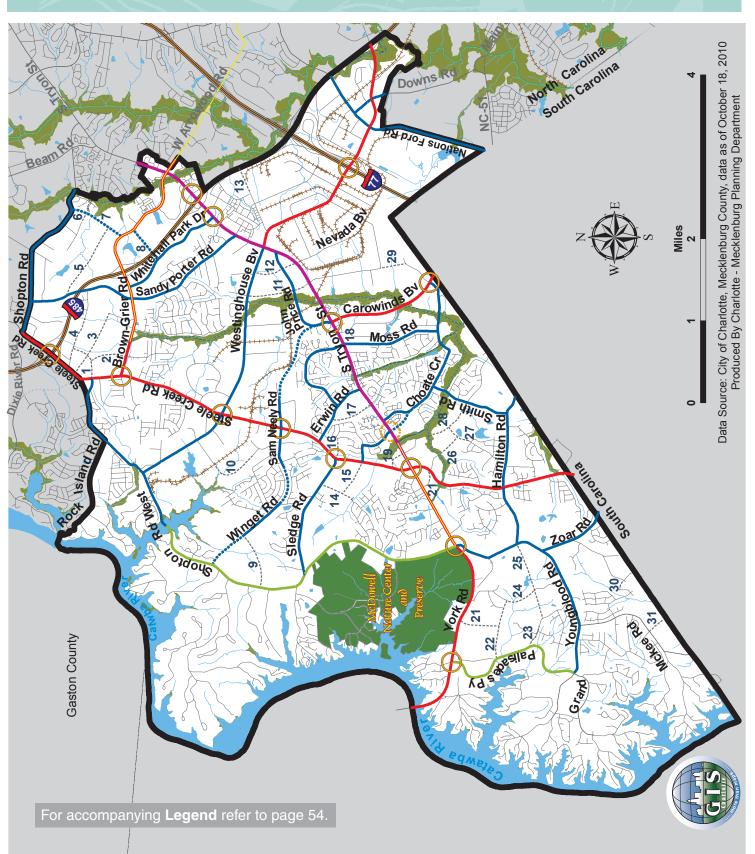
- 1. Extension of Shopton Road West across Steele Creek Road (NC 160) to new local street #4
- 2. New street between Brown-Grier Road at Cedar Hill Road and Shopton Road West Extension
- 3. Extension of Realigned Dixie River Road across Steele Creek Road (NC 160) to Gallant Lane
- 4. New street between Rigsby Road and Williams Glenn Road
- 5. New street between Sandy Porter Road and Arrowood Road inside Interstate 485
- 6. New street between Beaman Avenue and Blithe Low Place
- 7. New street between Shopton Road and Arrowood Road inside Interstate 485
- 8. New street between Arrowood Road and Whitehall Park Drive with bridge over Interstate 485 between Arrowood Road and South Tryon Street (NC 49)
- 9. New street between Shopton Road West and Winget Road
- 10. Extension of Means Court to Quality Drive
- 11. Extension of General Drive to Westinghouse Boulevard
- 12. Extension of Nevada Boulevard to Westinghouse Boulevard
- 13. New street between Pioneer Avenue and Arrowpoint Boulevard with bridge over Interstate 485 between South Tryon Street (NC 49) and Interstate 77
- 14. Extension of Waterlyn Drive to Sledge Road
- 15. New street between Waterlyn Drive Extension and Steele Creek Road (NC 160) at Huntington Meadow Lane
- 16. Extension of Swann Branch Drive to Steele Creek Road (NC 160) at Sledge Road
- 17. New Street between Erwin Road and South Tryon Street (NC 49) at Stephendale Drive
- The 2009 Feasibility Study recommends a connection between South Ridge Drive and Moss Road. The connection will be considered only if parcels located on the west side of Moss Road are redeveloped.
- 19. Extension of Rivergate Parkway across South Tryon Street (NC 49) to Steele Creek Road (NC 160)
- 20. New street between Steelecroft Parkway and Walker Branch Drive
- 21. New street between York Road (NC 49) and Grand Palisades Parkway
- 22. New street between Hickory View Lane Extension and Grand Palisades Parkway
- 23. Extension of Capps Road to Palisades Parkway
- 24. New street between Hickory View Lane and Shallow Pond Road
- 25. Extension of Hamilton Road to Capps Road
- 26. Extension of Walker Branch Drive to Superior Street Extension
- 27. Extension of Superior Street to Rivergate Parkway Extension
- 28. Extension of Rivergate Parkway to Smith Road
- 29. Extension of General Drive to Carowinds Boulevard via Catawba Trace
- 30. New street between Thomas Road and Kentucky Home Lane
- 31. New street between McKee Road and Tega Cay/Goldhill Road Connector



* In most cases, these new connectors will be requested through the land development process to support increased travel demand and to provide additional travel routes to area Activity Centers. *The locations of the proposed connector streets are conceptual. Alternative locations, consistent with the intent of the proposed network, will also be considered. Additional streets may also be identified to facilitate improved network and connectivity.*

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Steele Creek Area Plan Future Transportation Projects



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Steele Creek - Transportation Improvements & Costs

New Roads/Road Widenings

				Estimated	Funding	Under Current Funding when will this project be
Project	Limits	Existing	Proposed Improvement Cost (000)	Cost (000)	Responsibility	built?
Brown-Grier Road	Steele Creek Rd. to Sandy Porter Rd.	2 lane	Widening to 4 lanes	\$ 9,000	9,000 Charlotte	Beyond 2035
Carowinds Blvd.	S. Tryon St. (NC 49) to Choate Circle	2 lane	Widening to 4 lanes	\$ 12,000	12,000 Charlotte	Beyond 2035
Carowinds Blvd. Extension	S. Tryon St. to Shopton Rd. West	n/a	New 4-lane road	\$ 19,000	19,000 Charlotte	Beyond 2035
New bridge over I-485	Arrowood Rd. to Whitehall Park Dr.	n/a	New 2-lane bridge	\$ 12,600	12,600 Charlotte	Beyond 2035
S. Tryon Street (NC 49)	Arrowood Rd. to Steele Creek Rd. (NC 49)	4 lane	Widening to 6 lanes	\$ 50,000	50,000 Charlotte/NCDOT	Beyond 2035
Shopton Road West Extension	S. Tryon St. to Zoar Rd.	n/a	New 2-lane road	\$ 7,300	7,300 Charlotte	Beyond 2035
Steele Creek Road	I-485 to York Rd. (NC 49)	2 lane	Widening to 4 lanes	\$ 42,300 NCDOT	NCDOT	Beyond 2035
Steele Creek Road	York Rd. (NC 49) to South Carolina line	2 lane	Widening to 4 lanes	\$ 23.200 NCDO	NCDOT	Bevond 2035

Total

\$ 175,400

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nproveme
Road In
-Market
Farm-to

						Under Current
						Funding when will
				Estimated	Funding	this project be
Project	Limits	Existing	Proposed Improvement	Cost (000)	Responsibility	built?
Choate Circle	S. Tryon St. to Carowinds Blvd.	2 lane	FTM Upgrade	\$ 16,600	16,600 Charlotte	Beyond 2020
Erwin Road	Steele Creek Rd. to S. Tryon St.	2 lane	FTM Upgrade	\$ 6,400	6,400 Charlotte	Beyond 2020
Hamilton Road	Youngblood Rd. to Steele Creek Rd.	2 lane	FTM Upgrade	\$ 5,500	5,500 Charlotte	Beyond 2020
Hamilton Road	Steele Creek Rd. to SC line	2 lane	FTM Upgrade	\$ 8,600	8,600 Charlotte	Beyond 2020
Sandy Porter Road	Shopton Rd. to Brown-Grier Rd.	2 lane	FTM Upgrade	\$ 9,800	9,800 Charlotte	Beyond 2020
Sandy Porter Road	Brown-Grier Rd. to S. Tryon St.	2 lane	FTM Upgrade	\$ 11,600	11,600 Charlotte	Beyond 2020
Shopton Road	Steele Creek Rd. to S. Tryon St.	2 lane	FTM Upgrade	\$ 21,300	21,300 Charlotte	Beyond 2020
Shopton Road West	York Rd. (NC 49) to Sledge Rd.	2 lane	FTM Upgrade	\$ 15,700	15,700 Charlotte	Beyond 2020
Shopton Road West	Sledge Rd. to Winget Rd.	2 lane	FTM Upgrade	\$ 10,000	10,000 Charlotte	Beyond 2020
Shopton Road West	Winget Rd. to Westinghouse Blvd.	2 lane	FTM Upgrade	\$ 11,400	11,400 Charlotte	Beyond 2020
Shopton Road West	Westinghouse Blvd. to Steele Creek Rd.	2 lane	FTM Upgrade	\$ 11,200	11,200 Charlotte	Beyond 2020
Sledge Road	Shopton Rd. to Steele Creek Rd.	2 lane	FTM Upgrade	\$ 11,600	11,600 Charlotte	Beyond 2020
Smith Road	Choate Circle to Hamilton Rd.	2 lane	FTM Upgrade	\$ 7,400	7,400 Charlotte	Beyond 2020
Youngblood Road	Palisades Pkwy. to Zoar Rd.	2 lane	FTM Upgrade	\$ 12,200	12,200 Charlotte	Beyond 2020
Zoar Road	Youngblood Rd. to South Carolina line	2 lane	FTM Upgrade	\$ 6,700	6,700 Charlotte	Beyond 2020

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\$ 166,000

			Under Current Funding when will
		Estimated Funding	this project be
Project		Re	y built?
Beam Rd./Shopton Rd.		\$ 3,300 Charlotte	Beyond 2015
Sam Neely Rd./Steele Creek Rd.		\$ 6,100 Charlotte	Beyond 2015
Brown-Grier Rd./Steele Creek Rd.		\$ 2,500 Charlotte	Beyond 2015
Steele Creek Rd./Westinghouse Blvd.		\$ 5,000 Charlotte	Beyond 2015
Steele Creek Rd./York Rd.		\$ 5,000 Charlotte	Beyond 2015
Shopton Rd. West/York Rd.		\$ 5,000 Charlotte	Beyond 2015
Carowinds Blvd./S. Tryon St.		\$ 5,000 Charlotte	Beyond 2015
I-485/S. Tryon St.		\$ 5,000 Charlotte	Beyond 2015
I-77/Westinghouse Blvd.		\$ 5,000 Charlotte	Beyond 2015
S. Tryon St./Whitehall Park Dr.		\$ 5,000 Charlotte	Beyond 2015
Carowinds Blvd./Choate Circle		\$ 5,000 Charlotte	Beyond 2015
	Total	\$ 51,900	
	I otal Road, FIM and		

Source: 2035 Mecklenburg-Union Long Range Transportation Plan, 2011-15 Capital Investment Plan

\$ 393,300

Intersection Improvement Cost In FY10 dollars Source: 2035 Mecklenburg-Union Long-Range Transportation Plan, 2011-15 Charlotte Capital Investment Plan

cation of bridges and from the 2035 LRTP estimates only using using the unit costs 2008 dollars. These and planimetric info need to be widened to determine the loor replaced. It does items such as utility proved by MUMPO culverts that would relocations, right of in 2010 and are in that are necessary way and construction contingencies aerial information are planning level to make a project These estimates nclude costs for were developed document apwhole.