

Morrisville Transportation Projects Quarterly Report



Morrisville Planning Department
May 27, 2014

Transportation Improvements

Most Common Ways the Town secures transportation improvements:

1. Development
2. Grant Funding
 - Surface Transportation Program - Direct Allocation (STP-DA)
 - Community Development Block Grant (CDBG)
 - Congestion Mitigation Air Quality (CMAQ)
3. State Project/Funding (NCDOT)
4. Bonds/Town Funding
 - Most economical means of borrowing money for local governments
 - A vote of the public is required
 - Allows the Town to complete high impact projects



Status Report: Grants

FY11 STP-DA Grant Funding



Shiloh Greenway (North)

Design & Environmental: Complete

Construction: **Complete**

NC 54 Sidewalks

Design & Environmental: Complete

R/W Certification: Complete

Construction: **Complete**



Status Report: Grants

FY12 STP-DA Grant Funding

Shiloh Greenway (South)

Under construction



Morrisville-Carpenter Rd. Widening and Davis Drive Intersection Improvements

Under construction

Scheduled for
Completion July 2014



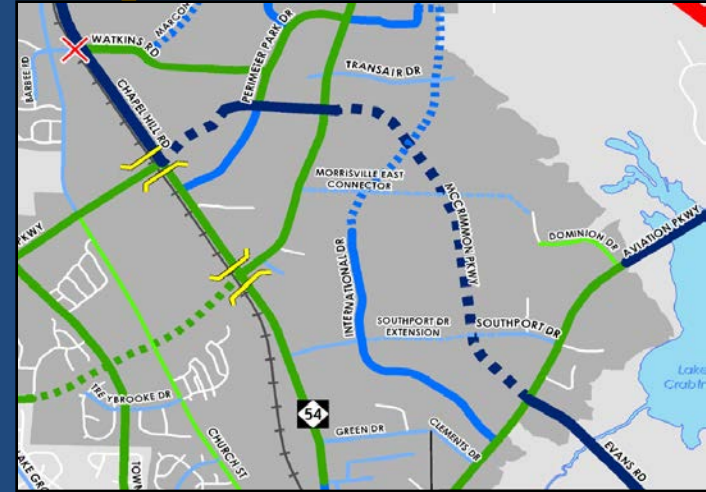
FY14 STP-DA Grant Funding



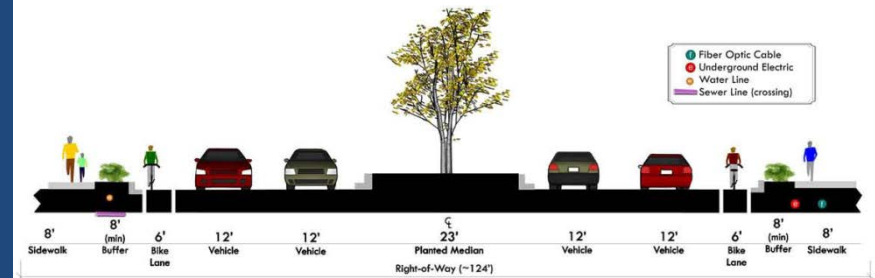
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Status Report: NC 54 Bypass – McCrimmon Parkway Extension

- Public Works is Project Lead
- Working on finalizing alignment, cross-section(s) and roadway network
- Transportation Plan amendment will be brought forward in Fall 2014 for cross-section and roadway network



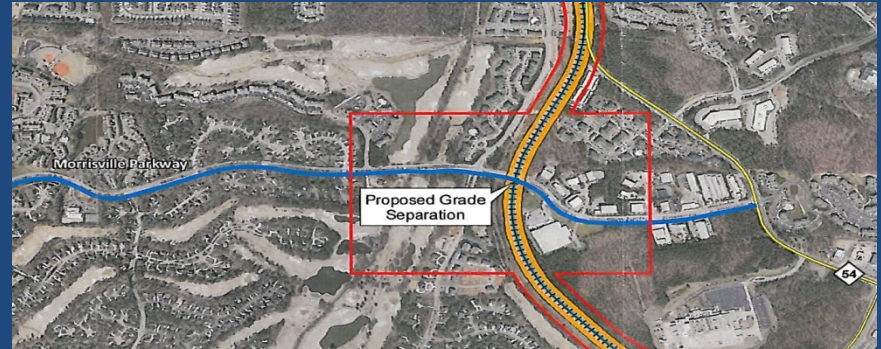
McCrimmon Parkway Extension, Evans Road and Morrisville East Connector



Status Report: State Projects

Morrisville Parkway Grade Separation

- Morrisville Parkway limited to 1 lane in both directions for next 4-6 weeks for waterline relocation
- Morrisville-Carpenter/Town Hall Dr. work not scheduled – at least 3-6 weeks away
- 6-9 Month Closure expected in 2015



Hopson Road Grade Separation

- New track being laid in corridor between McCrimmon Parkway and Hopson Road
- Church Street crossing expected to be closed 2015

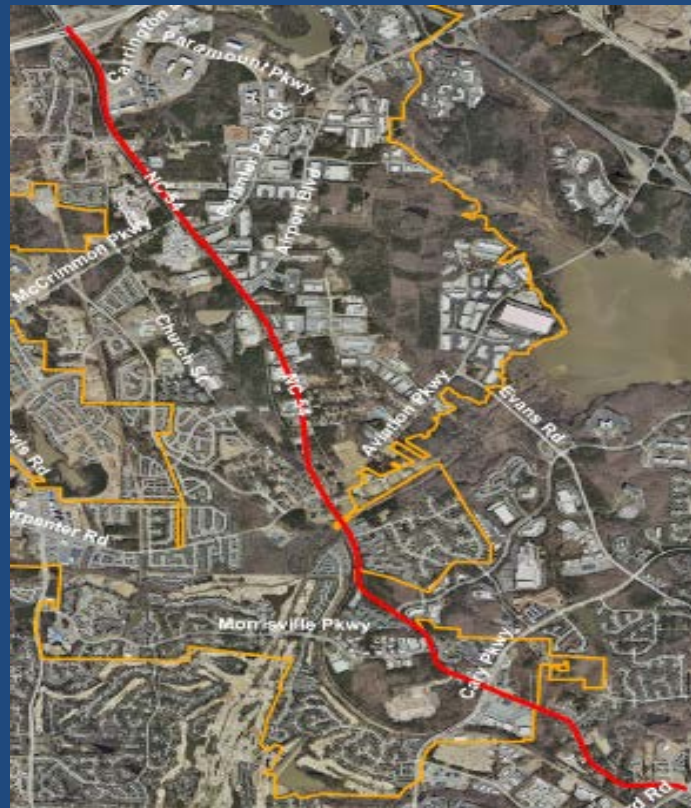
Status Report: Transportation Planning Projects/Studies

NC 54 Corridor Study

- Next Public Meeting Fall 2014
- Preliminary Designs, Cost and Impacts
- NCDOT currently revising traffic forecast – expected to be complete by summer

Triangle Parkway (NC 147) Extension “Hot Spot” Study

- Study Complete – Available on CAMPO website
 - <http://www.campo-nc.us/hotspots.html>



NCDOT Strategic Transportation Investment Legislation Implementation: SPOT 3.0 Process

- SPOT 3.0 is the Strategic Prioritization process used by NCDOT to quantitatively and qualitatively rank transportation projects submitted by NCDOT Divisions, MPOs and RPOs
- STI Legislation created 3 new “buckets” for transportation projects: Statewide, Regional and Division
- Initial scores for all projects in the SPOT database released May 14th
- Local priority point allocation period begins June 2nd (90 days)
 - CAMPO TAC scheduled to release local priority point allocation for 30 day public comment period June 18th
 - CAMPO TAC scheduled to approve local priority point allocation August 20th

SPOT 3.0 Outcomes – Potential Statewide Tier Projects

- Scores based on quantitative data – NCDOT Draft Statewide Program
- Revise Interchange at Aviation Parkway/I-40
 - Project will add new loop for entering westbound I-40 from Aviation Parkway
 - Preliminary Construction Schedule – FY 17
- Revise Interchange at Airport Boulevard/I-40
 - Project will convert existing interchange to Diverging Diamond Interchange
 - Preliminary Construction Schedule – FY20
- Multiple I-40 Widening Projects
- Complete construction of NC 540
- Reconstruction of RDU Runway
 - \$500,000 cost to the state; \$100M project cost



SPOT 3.0 Quantitative Scores – Regional Impact Category

- In this Category, quantitative scores make up 70% of the total score; local input makes up 30%
- Primarily Highway mode; some Rail & Public Transit projects
- Highest quantitative score in Region: 63.08
 - NC 54/Farrington Road Grade Separation – Durham Co.
- McCrimmon Parkway Grade Separation – 3rd Highest Score in Region: 52.47
- Two other projects that are competitive:
 - NC 54 widening from Perimeter Park Dr. to NC 540: 34.61
 - NC 54 widening from Weston Parkway to Perimeter Park Dr: 30.49

SPOT 3.0 Quantitative Scores – Division Needs Category

- In this Category, quantitative scores make up 50% of the total score; local input makes up 50%
- More multi-modal competition in Division Needs Category
 - Roadway, Public Transit, Bike/Pedestrian, Rail, Aviation
- Expected funds for Division 5 - \$70 million/10 Years
- Program more likely to include low-cost projects, such as bike/pedestrian and transit; some roadway
- Highest Score (out of 50 points): 45.00 – Bike/Ped project

Morrisville Project Scores – Division Needs Category

- Louis Stephens Road Construction (\$2.5M): 33.91
 - Construct 2 lane road from end of existing asphalt to Little Dr.
- Airport Blvd. Sidewalks (\$325,000/\$65,000 Match): 31.92
 - Fill in gaps in sidewalk network from McCrimmon Parkway to I40
- Aviation Parkway Widening [NC 54 to I40] (\$28.3M): 27.89
- Morrisville-Carpenter Rd Multi-Use Path (\$300,000): 25.33
 - Connect future greenway to existing sidewalks via 8' M/U path
- McCrimmon Parkway Widening (\$14.7M): 24.52
 - Widen and Extend Roadway from Airport Blvd. to Aviation Pkwy.

Morrisville Project Scores – Division Needs Category

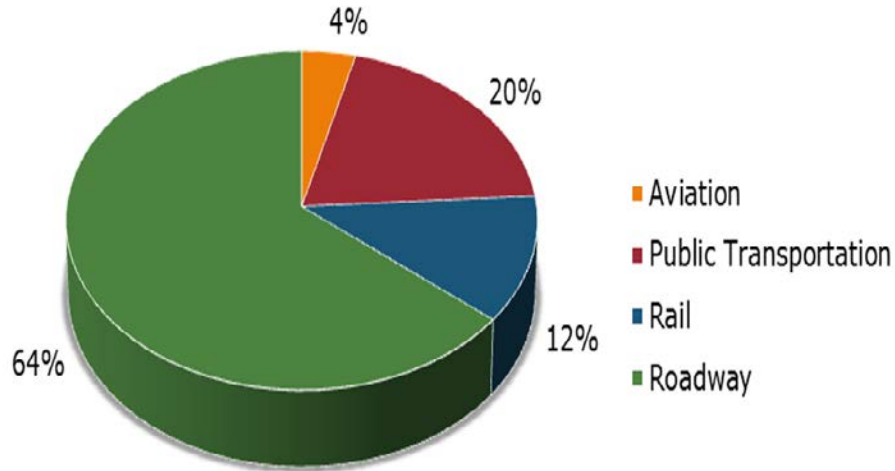
- Triangle Parkway Extension (\$49.8M): 24.26
 - Extend Triangle Parkway (NC 147) from NC 540 to McCrimmon
- Morrisville Parkway Bike Lanes (\$900,000): 21.42
 - Add bike lanes between NC 54 and Davis Drive; \$180,000 Match
- Church Street Sidewalks (1.72M): 20.12
 - Fill in sidewalk gaps on Church Street from Morrisville-Carpenter to Durham County line
- McCrimmon Parkway Widening (\$20.2M): 19.88
 - Widen McCrimmon Parkway from Davis to Airport Blvd
- Morrisville-Carpenter Road Widening [NC 54 to NC 55] (\$28.9M): 17.07

CAMPO Local Priority Point Allocation Process

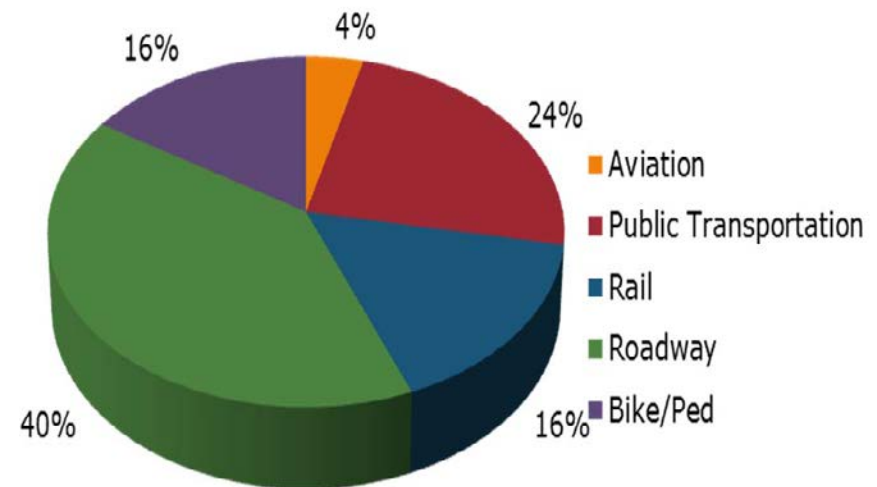
- CAMPO is allocated 2,500 local priority points each for Regional Impact and Division Needs categories
- CAMPO has developed the following policy for allocating local priority points:
 - Maximize Funding Potential
 - Allocate points to cascading projects on case-by-case basis – Written justification will be provided
 - Allocate points based on a target modal mix

CAMPO Target Modal Mixes

Regional Modal Mix



Division Modal Mix



Questions & Comments

Transportation Projects Quarterly Report – May 2014

Transportation Infrastructure Projects with Morrisville Financial Support

Year	Agency	Project	\$ Total	Estimated Cost	Town Share	%	Source	Status
FY10	Town	International Drive Repairs (Triangle Drive to dead end)	\$408,000	\$374,000	\$408,000	100%	Powell Bill & General Fund	Complete
FY11	STP-DA	NC 54 at NC 540 Multi-use Paths	\$122,500	\$122,500	\$24,500	20%	Parkland Payment in Lieu Funds	Complete
FY11	STP-DA	Shiloh Greenway North	\$507,237	\$507,237	\$101,447	20%	Parkland Payment in Lieu Funds	Complete
	Town	Shiloh Greenway North - Design	\$40,000	\$40,000	\$40,000	100%		
FY12	STP-DA	Shiloh Greenway South	\$360,525	\$360,525	\$144,210	40%	Parkland Payment in Lieu Funds	In Progress: Construction
	Town	Shiloh Greenway South - Design	\$54,000	\$54,000	\$54,000	100%		
FY12	STP-DA	Morrisville-Carpenter Road Widening and Davis Intersection Improvements	\$1,159,786	\$1,159,786	\$347,935	30%	Grace Park PIL & General Fund	In Progress: Construction
FY12	CDBG	Barbee Road/Fiona Circle Paving and Sidewalks	\$502,563	\$502,563	\$170,383	33%	Shiloh Grove Townhomes PIL	Construction Complete
FY12	Town	Morrisville-Carpenter/Town Hall Signal	\$140,000	\$140,000	\$140,000	100%	Bond Capital Project	Signal Installed 2/18/13
FY14	CAMPO -LAPP	Church Street Sidewalks – Town Center Walking Loop	\$157,000 (+ \$18,000)	\$109,900	\$47,100	30%	General Fund	In Progress: Design, R/W
FY13	CMAQ	Crabtree Creek Greenway	\$4.2M	\$443,154	\$110,788	20%	Parkland Payment in Lieu Funds	In Progress: Design
FY15	CMAQ			\$2,954,360	\$738,590	20%		
FY14	Town	NC 54 Bypass: McCrimmon Parkway Extension	\$1.2M	\$1.2M	\$1.2M	100%	General Fund/Bond Project	In Progress: Engineering/Design

NCDOT Projects:

- Kit Creek Road Extension (Complete)
- Triangle Parkway (Complete)
- Hopson Road Grade Separation (2012-2015)
- Traffic Signal at International/Aviation (Complete)
- Morrisville Parkway Grade Separation (2013-2016)

Major Privately Funded Transportation Improvements

- Town Hall Commons
 - Constructed Town Hall Drive
 - Improvements on McCrimmon Parkway
 - Signalization at McCrimmon Parkway and NC 54
 - Constructed Segment of Airport Boulevard
 - Extended Liberty Rose Drive to McCrimmon Parkway
 - Will install turn lanes at Church/McCrimmon intersection
- Perimeter Park PUD
 - Constructed Carrington Mill Boulevard
 - Widened NC 54
 - Signalization at Paramount/Perimeter and Paramount/Carrington Mill (2010)
- The Manor Village at Preston
 - Installed southbound right turn lane from NC 54 onto Cary Parkway
- Bethany Village and Grace Park
 - Widened Davis Drive
 - Intersection Improvements at Morrisville-Carpenter /Davis

Town of Cary Projects:

- Morrisville Parkway Extension to NC 55 (Open to Traffic)
 - Louis Stephens Drive (Delayed Indefinitely)
 - Sidewalk Installation on James Jackson Avenue (2012)
 - Sidewalk Installation on McCrimmon Parkway between Twin Lakes and Davis Drive (2012-2013)
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- Shiloh Crossing
 - Constructed Shiloh Glen Drive
 - Widened NC 54
 - Kitts Creek
 - Will install westbound right turn lane on McCrimmon Parkway at Church Street
 - Will install southbound right turn lane on Church Street at Kitt Creek Road in coordination with NCDOT Hopson Road Grade Separation project
 - Park West Village
 - Signalize entrances on NC 54, Morrisville Parkway and Cary Parkway
 - Intersection, Signal Timing and Pedestrian Improvements at NC 54/Cary Parkway
 - Install additional east and west-bound through lanes on NC 54

Potential Transportation Infrastructure Projects for Future Funding Consideration

Grant Source	Project Description	Total Cost	Town Share	%	Potential Source for Town Match	Timeline
Wake County CDBG	Cedar Fork Elementary Sidewalks	\$250,965	\$50,193	20%	Powell Bill	FY16
	Church Street Sidewalks-Ph. 2	\$283,668	\$56,734	20%	Powell Bill or Special Revenue Fund	FY18

Transportation Planning Projects with Morrisville Financial Support

Funding Source	Project Description	Total Cost	Town Share	%	Source for Town Match	Timeline
CAMPO UPWP	NC 54 Corridor Study	\$256,353	\$25,000	12.5%	FY12 General Fund Budget allocation to Planning Department	FY12-FY14
NC Sustainable Communities Trust Fund	McCrimmon TOD Market Reconnaissance	\$40,000	\$10,000	25%	FY12 General Fund Budget allocation to Planning Department	FY11-FY12

Other Potential Funding Sources

CAMPO Unified Planning Work Program (UPWP)	NCDOT Rail	NCDOT Spot Safety or Resurfacing Lists	Powell Bill
Town of Morrisville CIP MTIP/STIP Projects	NCDOT Safe Routes to School	Public Works Annual Sidewalk Improvements	Other grants as available

Acronyms

CAMPO	Capital Area MPO
CDBG	Community Development Block Grant
CMAQ	Congestion Mitigation Air Quality
STP-DA	Surface Transportation Program- Direct Allocation
UPWP	Unified Planning Work Program