### South Carolina



### **Planning Education Advisory Committee**

Committee Members:

Stephen G. Riley, Chairman Representing MASC Term Expires: 2017

Phillip L. Lindler Representing SCAC Term expires: 2019

Cliff Ellis Representing Clemson University Term expires: 2020

Christopher Witko Representing USC Term expires: 2020

Wayne Shuler Representing SCAPA Term expires: 2018 August 20, 2018

City of Rock Hill Janice E. Miller Historic Preservation Specialist 155 Johnston Street Rock Hill, SC 29731

Re: Applications for Accreditation of CE credits for New Program

Dear Ms. Miller:

On August 3, 2018, I received the program materials you submitted for "York County Transpiration Programs." Upon receipt of the materials, an email was sent to confirm receipt by all Committee members as well as a deadline set for comments.

Under the "no objection policy" adopted July 8, 2009, the request for accreditation of this program has been approved, and the signed "Notice of Decision" is attached. A formal after-the-fact approval will be handled as part of a Consent Agenda at the regular quarterly meeting of the Committee, scheduled at 10:00 a.m. on Tuesday, November 6, 2018.

Thank you for your efforts to help make this program a success.

Sincerely, Chen H/Riley

Stephen G. Riley, ICMA~CM Chairman

cc: Phillip Lindler, Cliff Ellis, Christopher Witko and Wayne Shuler

South Carolina Planning Education Advisory Committee (SCPEAC)

### **NOTICE OF DECISION**

Title of Program: <u>York County Transportation Programs</u>

### 11. The following action has been taken by the SCPEAC on this application:

ACCEPTED WITHOUT OBJECTION Date: <u>August 20, 2018</u>

REVIEWED BY FULL COMMITTEE Date: \_\_\_\_\_

- a) <u>X</u> ACCREDITED for: <u>90 min.</u> CE credits: <u>1.5</u>
- **b)** DENIED ACCREDITATION
- c) \_\_\_\_\_ RETURNED for more information

### 12. If accredited:

- a) Authorized Course No.: <u>2018-10</u>
- **b)** Date of accreditation: <u>08/20/2018</u>

Signature of SCPEAC Representative:

(Hopken H/Riley

For further information, contact Mr. Stephen G. Riley, Chairman, 843-341-4701 or <u>stever@hiltonheadislandsc.gov</u>

### LOCAL OFFICIAL'S CERTIFICATION OF NEED FOR CONTINUING EDUCATION PROGRAM

**NOTE:** The Planning Director of a jurisdiction, or the COG Director serving a jurisdiction, may certify to the SCPEAC that a particular continuing education program is appropriate to meet the needs of that jurisdiction.

This certification form, together with the required information referenced therein, shall be submitted to the Committee. **If no objections are raised** by a member of the SCPEAC within 10 working days of receipt, the continuing education program shall be considered accepted. If an objection is raised, a teleconference meeting shall be scheduled, with appropriate public notice, as soon as reasonably possible, to review the application.

Applications are due no later than 30 days prior to the first scheduled presentation of a program or class. The Committee will consider extenuating circumstances where the 30 day deadline cannot be met.

### 1. Certifying Official's Information:

a.	Name:	Bill Meyer			
b.	Title: Planning & Development Director				
c.	Jurisdic	tion for which cert	tification is being made: City of Rock Hill		
d.	Address	of Jurisdiction:	155 Johnston Street, PO Box 11706		
e.	City:	Rock Hill			
	Zip Coc	le 29731-17	06		
f.	Telepho	ne: 803-329-3	3879		
g.	Email:	bill.meyer@c	cityofrockhill.com		
h.	For CO	G Directors:			
	i. Nan	ne of COG:			
	ii. Address of COG:				
	iii. City	:			
	Zip Code:				
	iv. Telephone:				
	v. Ema				
In	formatic	on on Educationa	l Program:		
a.	Title of	Program: York	County Transportation Programs		
b.	Name of	f Organization that	t is providing or sponsoring the Program:		

i. Organization: City of Rock Hill

2.

- ii. Street Address: 155 Johnston Street
- iii. City: Rock Hill
  - State: SC

Zip Code: 29731

- iv. Contact Person: Janice E Miller
- v. Title: Historic Preservation Specialist
- vi. Telephone: 803-817-5129
- vii. Email: janice.miller@cityofrockhill.com
- c. Date(s) and Location(s) of Program:

### September 4, 2018 - City Hall, 155 Johnston Street, Rock Hill SC

d. Briefly describe the program and why it is relevant to your jurisdiction:

Overview of York County transportation programs, funding sources, new & existing bus systems, and community involvement in the transportation process.

### 3. Method of presentation (check all that apply. All sessions must have a Coordinator present):

a. Presentor(s) in room with participants	<b>U</b>
b. Live presentation via close circuit TV, video conferencing, or similar; Coordinator present	
c. Videotape or CD/DVD presentation; Facilitator present	
d. Webinar or similar; Coordinator present	

e. Other (describe)

### 4. Description of materials to be distributed (check/fill in all that apply):

a. Powerpoint handout:		number of slides:	15+(MPROVERS)
b. Other handouts:		total pages:	3
c. CD/DVD:			
d. Other (describe)			
e. None:			
5. When are materials distributed?			
a. Sent before the program:	Ξ,		
b. Handed out at the program:			
c. Other (describe)			

- 6. Required attachments (5 copies distributed as described below):
  - a. Course description and outline including estimated time per section

- b. Brochure, if available
- c. Course Presenter(s) and credentials (include brief resumes and qualifications)
- d. Copies of all handouts and course materials
- e. Evaluation Form and method of evaluation (each program must be evaluated)

### 7. Instruction Time:

a. Indicate the total minutes of instruction time: 90+ minutes

Note: Breaks, meals and introductions should not be counted. A reasonable period of Q and A should be included and counted.

#### 8. Local contact person (if other than Certifying Official):

a.	. Name:	
b.	. Title:	
c.	. Jurisdiction:	
d.	. Telephone:	
e.	. Email:	

### 9. Certification. By Submitting this application, the applicant agrees to:

- a. Allow in-person observation, without charge, of the Program by the SCPEAC Committee members. Any food, travel or lodging costs will be the responsibility of the Committee member(s).
- b. The Certifying Official acknowledges that its approval for this Program may be withdrawn for violations of the regulations or failure to comply with the agreements and representations contained herein and as may be required by the SCPEAC.
- c. I do hereby certify that this program satisfies the current continuing education needs of this community.

i. Name: Bill Meyer	
ii. Title: Planning & Development Director	
iii. Signature:	
iv. Date: 8/3/18	



### York County Transportation Programs Tuesday, September 4<sup>th</sup> 3 - 4:30PM

- Presenters: Chris Herrmann Transportation Planner Patrick Hamilton, P.E. – Program Manager, Pennies for Progress Clifton Goolsby, P. E. – City of Rock Hill Transportation Manager
  - I. Rock Hill-Fort Mill Area Transportation Study (RFATS) Chris Herrmann
    - A. History
    - B. Area Growth
    - C. Processes
    - D. Upcoming Projects
  - II. Pennies for Progress Patrick Hamilton
    - A. History
    - B. Processes
    - C. Past Projects
    - D. Current & Future Projects
  - III. City/Local Government Clifton Goolsby
    - A. History
    - B. Safety
    - C. Signal Systems/Timing
    - D. Access
  - IV. Questions/Answers

Chris Herrmann 193 Longsight Lane Rock Hill, SC 29730 (270) 871-1582

		Cherrmann1987@gmail.com				
Education	ration Centre College, Danville, KY Bachelor of Arts, Government Date of Graduation, May of 2010					
	Murray Masters o Date of C	State University, Murray, KY of Public Administration Graduation, December of 2014				
Experience	Rock Hi Transpor Manage Responsi Assisted	<b>Rock Hill, SC</b> May 2015-Present				
	Community and Development ServicesHopkinsville, KPlanner IApril 2012-MayManaged Conversion Project of Lackey Municipal Center to Hopkinsville Police DepartmentResponsible for various Planning and Zoning projects and researchUpdated the Hopkinsville-Christian County Comprehensive Plan					
	Commo News Dia Gathered Responsi Host of s	nwealth Broadcasting Company rector and wrote news material and broadcast newscast ble for programming and producing material ports talk show and color commentary for sporting events	Madisonville, KY March 2011-April 2012			
	Madisonville City HallMadisonville, KYInternJune 2010-JanuaryConcentrated on Open Records and Open Meetings ActJune 2010-JanuaryWrote various letters and works for Mayor Will CoxResponsible for filing					
Activities	Varsity Knights	Football, Centre College. 2006-2010. of Columbus, Christ the King Church. 2011-Present.				
Skills	Comput Maker, A	er: Microsoft Word, Microsoft Excel, PowerPoint, Adobe Photos apple I-Movie, Adobe Audition, One Media Touch, ArcGIS	shop, Bluehost, Windows Movie			
References						
	David Hooper	RFATS Administrator				
		Phone: (803)-326-3897				
	Cliff Goolsby	City of Rock Hill Transportation Manager				
		Phone: (803)-329-8722				
	Chris Covington	Planner II, Community and Development Services				
		Phone: (270)-498-9910				
	Will M. Cox	Former Mayor of Madisonville, KY				
		Phone: (270)-871-6127				
	Andy Frye	Head Football Coach of Centre College				
		Phone:(859)-238-5496				

### Patrick Hamilton, PE

Patrick Hamilton is a graduate of Clemson University with a Bachelor's Degree in Civil Engineering. He is a registered Professional Engineer in the state of South Carolina and has spent his career in the transportation field, working with SCDOT, York County, and in the private sector. He has worked on a variety of transportation projects, ranging from highway widenings, intersection improvements, gravel road paving, resurfacing, and residential/commercial site design, to name a few. Patrick is currently the Program Manager for York County's Pennies' for Progress Program.

### **Clifton Goolsby, P.E.**

2838 Oakhurst Drive • Rock Hill, SC 29732 • clifton.goolsby@gmail.com • 803-322-4590

### SUMMARY OF QUALIFICATIONS

#### Education

- MS in Civil Engineering (Transportation Engineering), Clemson University
- BS in Civil Engineering, Clemson University

#### History

- Professional Engineer (SC) since 2012.
- City of Rock Hill Transportation Manager for 6 months
- South Carolina Department of Transportation Engineer with 3 years 8 months as Associate Traffic Engineer in District 4 and 1 year 2 months as Assistant Resident Maintenance Engineer in York County.
- Kimley-Horn & Associates Analyst with 1 year in roadway design group.
- Clemson University Research Assistant/Teaching Assistant for 16 months.

### **Technical Skills**

- Experienced with Synchro, AutoCAD, Microstation, Auto Turn, and GIS software.
- Proficient with Microsoft Office including Word, Excel, PowerPoint and Access.

### **PROFESSIONAL ORGANIZATIONS**

• Member of Institute of Transportation Engineers - South Carolina Section.

### **PROFESSIONAL EXPERIENCE**

#### **City of Rock Hill, South Carolina**

Transportation Manager – Planning and Development Department

- Coordinate Traffic Commission to address citizen issues and concerns within the City of Rock Hill.
- Participate in regional planning as a representative for the City of Rock Hill on the RFATS Technical Team.
- Review proposed development plans with respect to transportation/access related topics.
- Conduct traffic operation studies including site reviews, collision history analyses, and traffic volumes counts.
- Oversee Transit Services for City of Rock Hill to ensure Federal Transit Authority requirements are met.

### **SCDOT, South Carolina**

Associate Traffic Engineer – District 4 (Chester, SC)

- Coordinated District 4 engineering review and response for traffic impact analyses and projects including, but not limited to, Pennies for Progress projects, LPA projects, and CMAQ projects.
- Participated in Rock Hill Traffic Commission and RFATS Technical Team to address concerns and develop SCDOT recommendations and responses.
- Conducted traffic operation studies including site reviews, collision history analyses, pedestrian and vehicle counts, speed studies.

### 2015 – Present

2010 - 2015

Clifton Goolsby

clifton.goolsby@gmail.com

- Prepared correspondence and reports to document study findings and convey recommendations.
- Applied SCDOT Engineering standards to identify and evaluate traffic control operations and safety problems and develop recommendations for improvements.
- Developed/Revised Signal Plans.

Assistant Resident Maintenance Engineer – (SCDOT) York County

- Assisted Resident Maintenance Engineer on projects and with daily operations (planning, organization, supervision, and inspection).
- Supervised the following crews
  - York County Chip Seal Crew used district-wide (7 counties)
  - York County Sign and Pavement Marking Crew
  - York County Ditching and Shoulder Crew
  - Western York County Section Crew
- Worked with Maintenance foremen in areas of planning, scheduling, and discipline.
- Represented SCDOT when meeting with the general public, contractor personnel, and city and county officials.
- Assisted in the planning for and supervision of inclement weather response.

#### Kimley-Horn and Associates, Inc., Charlotte, NC 2008 - 2009

Analyst - Roadway Design Group

- Worked in a team environment on civil engineering design projects with input throughout entire life cycle, including permitting and approval processes.
- Designed and drafted residential land and roadway development improvement plans.
- Created vertical and horizontal conceptual roadway designs.
- Presented project designs in the form of plan sets.
- Gained experience in construction phasing, traffic control, and erosion control.
- Analyzed existing drainage conditions, designed and sized closed drainage systems, culverts, driveway pipes, and ditches.
- Performed detailed estimates of project costs.

### **Clemson University, Clemson, SC**

Research/Teaching Assistant

- Helped with data collection in work zone speed study.
- Managed pedestrian safety project and created GIS database of pedestrian/vehicle accidents.
- Taught Geomatics Lab (GPS, GIS, and Surveying).

### **EDUCATION**

Master of Science in C	2006 - 2007	
Clemson University	Clemson, SC	
Emphasis in Transporte	tion Engineering	
GPA: 3.81		
Activities: Graduate Re	search/Teaching Assistant	
Bachalor of Science in	Civil Engineering	2002 - 2006

Bachelor of Science in Civil Engineering Clemson University Clemson, SC GPA: 3.34

### August 2006 - December 2007

2002 - 2006



# AGENDA

### What is RFATS?

## Why Does RFATS exist?

Key Work Products

Plans & Studies

Funding Sources

Area Transportation Projects

# WHAT IS RFATS?

# Metropolitan Planning Organization

- Transportation Planning Agency
- Metropolitan Areas (as defined by US Census)

## Urbanized Area

- Densely Developed Geographic Area
- Encompassing residential, commercial and other nonresidential urban uses / characteristics
- Population of 50,000 or greater
- In order to receive Federal transportation funding, an urbanized area must have an MPO

### **RFATS STUDY AREA**



## WHO IS THE MPO?



# **RANGE OF PLANNING AREAS**

Highways Social & Environmental Screening Congestion Management Air Quality Safety / Security Public Transit Freight Movement Bicycle / Pedestrian Financial Resources





# MPO PLANNING PROCESS



# AGENDA

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# **RFATS HISTORY**

- The first MPO in this region was established in the 1960's (RHATS)
- During the 1980's the Charlotte region experienced a massive growth boom
- In 1990, the urbanized population of RFATS was 86,000
- By 2000, the urbanized population of RFATS was 119,505
- The 2010 Census revealed the urbanized population of RFATS to be over 140,000
- The 2015 urbanized population of RFATS was roughly 240,000



Cherry Road, 1930



Main Street, 1960



Celanese Road, 1990's

# Cherry Road, 2018



## Main Street, 2018



## Celanese Road, 2018



## **AREA GROWTH**

Alert - ठें 85° ▲ Sign In   Subscribe	The Charlotte Observer	Alert Ö 86° ▲Sign In   Subscribe The Herald
😑 🛛 FULL MENU	NEWS SPORTS ARTS/CULTURE REAL ESTATE Q	FULLMENU NEWS SPORTS OBITUARIES CLASSIFIEDS Q



York County officials wonder if a specific housing study will help in its search for answers to issues in high residential growth areas like Fort Mill, Tega Cay and Lake Wylie. By Jeff Sochko

LATEST NEWS

# This Charlotte suburb is booming faster than any other US city



In just a year's span York County has the second highest growth rate in the state, at 3.3 percent. Only Horry County at 3.7 percent — the Myrtle Beach metro area is the second highest in the country — is higher. BEAU CABELL/THE TELEGRAPH

LATEST NEWS

### In a year, York and Lancaster counties grew like almost nobody else in the country.

# AREA GROWTH



Population and Dwelling Unit Projections By Districts								
Population (within RFATS)	2015	2025	% Difference 2015-2025	2035	% Difference 2025-2035	2045	% Difference 2035-2045	
Northern York County	57,571	87,249	52%	105,627	21%	108,840	3%	
Greater Rock Hill Region	122,597	143,008	17%	157,244	10%	178,336	13%	
Lake Wylie Region	22,743	34,592	52%	40,664	18%	45,163	11%	
Lancaster Panhandle	20,219	39,320	94%	44,470	13%	48,462	9%	
TOTAL	223,130	304,169	36%	348,005	14%	380,801	9%	
Population (outside RFATS)	2015	2025	% Difference 2015-2025	2035	% Difference 2025-2035	2045	% Difference 2035-2045	
Western York County	46,778	47,250	1%	47,727	1%	48,129	1%	
Lancaster Panhandle	1,842	3,497	90%	4,557	30%	5,482	20%	
TOTAL	48,620	50,747	4%	52,284	3%	53,611	3%	
Regional Total	271,750	354,916	31%	400,289	13%	434,412	9%	
Dwelling Units (within RFATS)	2015	2025	% Difference 2015-2025	2035	% Difference 2025-2035	2045	% Difference 2035-2045	
Northern York County	21,850	32,498	49%	39,310	21%	40,403	3%	
Greater Rock Hill Region	48,245	55,843	16%	61,087	9%	68,419	12%	
Lake Wylie Region	9,242	13,909	50%	16,201	16%	17,839	10%	
Lancaster Panhandle	8,966	16,843	88%	18,974	13%	20,618	9%	
TOTAL	88,303	119,093	35%	135,572	14%	147,279	9%	
			A/		N/ 5111		A/ 51//	
Dwelling Units (outside RFATS)	2015	2025	% Difference 2015-2025	2035	% Difference 2025-2035	2045	% Difference 2035-2045	
Western York County	17,644	17,824	1%	18,005	1%	18,160	1%	
Lancaster Panhandle	754	1,438	91%	1,873	30%	2,255	20%	
TOTAL	18,398	19,262	5%	19,878	3%	20,415	3%	
Regional Total	106,701	138,355	30%	155,450	12%	167,694	8%	

### 2015 Model

### 2045 Model





## **2045 Roadway Conditions**

### Vehicle Hours of Delay

2015: WHERE DRIVERS WILL SPEND

- Currently drivers spend about one-third of their time in congested conditions (LOS D or worse). Roughly 8% of that occurs on the Interstate, while 84% occurs on arterial roadways.
- By the year 2045, with no additional network improvements, drivers will continue to spend approximately 80% of their time in congested conditions along arterial roadways.





# AREA GROWTH

- The RFATS area is currently the fastest growing region in the state of South Carolina.
- Growth has an impact on the network
  - More people, driving more cars, wanting to get to more places, in a quicker pace
  - Sports tourism and festivals bring throusands of additional drivers to the area
- Traffic and congestion continues to increase
- Growth causes a need for roadway improvements, enhanced connectivity throughout the roadway network, and more ways to travel





How much money did the BMX championships bring to Rock Hill?

Taylor said the economic numbers are created by a series of in-depth surveys with consumers, digging into information such as food, lodging and transportation expenses.

The international event attracted nearly 20,000 people, while projected cumulative attendance for the week from multi-day admissions is estimated around 50,000-55,000, according to the PRT study.

Officials say around 3,700 riders from 48 countries flocked to Rock Hill for the championships.

Taylor says the event has broken BMX records.

A webcast of the challenge races July 23-28 broke viewership records with more than 500,000 views, making them the highest-viewed challenge races in BMX World Championships history.





is photo shows a rendering of the new \$8 million, 126,000-square-feet La-2-Boy distribution center that will be cated in the Riverwalk Business Park in Rock Hill. Contributed rendering

La-Z-Boy to open \$8M distribution center in Rock Hill's Riverwalk

- dthack hamgiber addenline com
- November 09, 2017 03:39 PM Updated November 13, 2017 07:06 PM YORK COUNTY — La-Z-Boy Southeast is expected to o
- facility in Rock Hill's Riverwalk Business Park by February 2018.
  - The facility would service La-Z-Boys's eight home furnishings and decor stores throughou Georgia South Carolina and North Carolina



# AGENDA

## What is RFATS?

## Why Does RFATS exist?

Key Work Products

Plans & Studies

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# **KEY WORK PRODUCTS**

Long Range Transportation Plan

Transportation Improvement Program

Transportation Conformity (Air Quality)

## **MPO Products**





# RFATS 2045 LONG RANGE TRANSPORTATION PLAN

- Goals, Objectives & Performance Measures
- Roadways
- Safety & Security
- Congestion Management Plan
- Freight Movement
- Public Transportation
- Bicycle & Pedestrian Network
- Aviation
- Environmental & Potential Impacts
- Financial Plan



## 2045 Long Range Transportation Plan Policy Highlights

## Roadways

- Continue to identify and address intersections that are major sources of delay along major corridors.
- Improve access management measures and design that help project mobility of high profile corridors.
- As local development occurs, preserve rightof-way for the new connecting streets recommended in the Collector Street Plan

## 2045 Long Range Transportation Plan Policy Highlights

- Bicycle and Pedestrian Network
  - Prioritize safety-focused improvements
  - Ensure facilities are incorporated in other projects
  - Emphasize connectivity
  - Pursue all forms of funding to make strategic improvements

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### **RFATS PLANS & STUDIES**

Collector Street Plan

Bicycle & Pedestrian Connectivity Plan

#### RFATS I-77 Corridor Analysis



### COLLECTOR STREET PLAN







Arterial street Commercial

-----

Collector street Public

### COLLECTOR STREET PLAN

- There are different layers in the roadway network
  - Arterial Roads (Celanese Road, Cherry Road, Dave Lyle Blvd)
    - Higher Volumes
    - Longer Trip Lengths
    - Interstate Access
  - Collector Roads (Twin Lakes Road, Mt Gallant Road, Ebenezer Road)
    - Lower Volume
    - Shorter Trips
  - Local Roads (Chamberside Drive, Piano Place, Fieldcrest Circle)
    - High Degree of Access
    - Lowest Level of Mobility



LOCa (tissue, meniscus)





# Collector (ligaments)



### COLLECTOR STREET PLAN



## COLLECTOR STREET PLAN

- Network Connectivity is a good thing
  - Lessens the reliance on the arterial roadways
    - Improves Short Trip Congestion
  - Reduces travel times
    - Improves Air Quality
  - More suitable for Mixed Use Developments
  - Improves Emergency
    Vehicle Response Times
  - Connects complimentary land uses



**RFATS Collector Street Plan** 

Rock Hill, SC



**RFATS Collector Street Plan** 

Rock Hill, SC

### **RFATS PLANS & STUDIES**

#### Collector Street Plan

Bicycle & Pedestrian Connectivity Plan

### RFATS I-77 Corridor Analysis



## BICYCLE & PEDESTRIAN CONNECTIVITY PLAN

- Bicycle and Pedestrian Infrastructure is a part of the transportation network
- RFATS has a multi-modal transportation network
- Desire to build upon successes and continue to enhance connectivity and improve safety







## BICYCLE AND PEDESTRIAN CONNECTIVITY PLAN



"There needs to be more driver awareness about cyclists and pedestrians. Two kids biking on my street have been hit by a car." -Nancy, RFATS resident

#### PRIORITY ROUTES NETWORK MAP

1.1

4. .



#### REGIONAL PEDESTRIAN VISION MAP







MILES



### **RFATS PLANS & STUDIES**

#### Collector Street Plan

#### Bicycle & Pedestrian Connectivity Plan

### RFATS I-77 Corridor Analysis



### **I-77 CORRIDOR ANALYSIS**



### AGENDA

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### SOURCES OF FUNDING

#### Federal Sources

- Guideshare Funding
- Congestion Mitigation & Air Quality (CMAQ) Funding
- Transportation Alternatives Program (TAP) Funding
- Federal Transit Association Funding
- SCDOT managed federal funds

#### State Sources

- State Infrastructure Bank
- State Mass Transit Fund
- Local Sources
  - Pennies for Progress
  - Private Investment



### AGENDA

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### AREA TRANSPORTATION PROJECTS



## RFATS CONTACT INFORMATION

David F. Hooper, AICP

- RFATS Administrator
- 803-326-3897
- <u>dhooper@rfatsmpo.org</u>
- Chris Herrmann
  - RFATS Transportation Planning Assistant
  - 803-326-2460

- <u>cherrmann@rfatsmpo.org</u>

# Questions







## Rock Hill Planning Session September 4, 2018









#### **Local Sales and Use Taxes**

- <u>Authority to the Counties</u> A county may approve one or more of the following local taxes local option, capital projects, such as constructing buildings, roads, bridges, water and/or sewer projects school district, or transportation tax, which provides funding for various transportation projects that involve highways, roads, streets, bridges, mass transit systems, greenbelts, and other transportation-related projects.
  - Administered by SCDOR These local sales and use tax taxes are imposed in addition to the State sales and use tax. These local taxes are collected and administered by the South Carolina Department of Revenue on the behalf of the counties. Items subject to a maximum sales and use tax (i.e. \$300 on motor vehicles) are exempt from the local sales and use taxes.
- **Requires a referendum** Voters may approve 1% local option sales and use tax and/or a local tax for capital projects or transportation. The question of implementing a local option, capital project or transportation tax is held during the month of November. If approved, the tax becomes effective May 1 following the election.

### **Capital Project Sales Tax Act**

#### Strict guidelines set for the program

- Time limits
- Projects must be listed in priority order on the referendum ballot
- Money collected must be spent on the approved projects
- Provided a specific formula for the creation of a 6-member citizen's based Commission to create the project list for the public's consideration
  - Population based
  - Intended to keep the overall politics out of the program
- The governing body only has full approval or full denial authority



York County Pennies for Progress



Oakridge Elementary School

435

Oakidge Rd

Oakridge Middle School 😋

1489

Bethel Volunteer Fire Department

Oakidge Rd

Hwy 557 Hwy 557

Lake Wylie Mini Storage

Hwy 557

Pennies Prog<sup>for</sup>ss

York County Pennies for Progress

HWY 557









York County Pennies for Progress





York County Pennies for Progress















#### Pennies Progress York County Pennies for Progress





#### **SC Highway 5 East**



### Pennies Progress York County Pennies for Progress





#### SC Highway 5 West








#### SC Highway 161









#### SC Highway 274



nd on





#### SC Highway 901







Pennies Progress York County Pennies for Progress

#### SC Highway 5 Bypass



**OVERHEAD UTILITIES & DEVELOPMENT ON RIGHT** 



#### SC Highway 160

















#### US 21 Bridge





#### US 21 Bridge





#### Mount Gallant





#### **Mount Gallant**





#### Fort Mill Southern Bypass





York County Pennies for Progress

#### Fort Mill Southern Bypass





Pennies Progress York County Pennies for Progress

#### Fort Mill Southern Bypass





York County Pennies for Progress

#### Hubert Graham Way





York County Pennies for Progress

#### Hubert Graham Way





#### Hubert Graham Way





2

H











#### SC 274/Pole Branch Road

#### 3.5 miles

Existing 2-lane roadway

SC 274: 5-lane urban highway with curbgutter, sidewalk, and shared use bike lanes

Pole Branch Road: 3-lane urban highway with curb-gutter, sidewalk, and shared use bike lanes

100% Plans submitted to SCDOT

Bid Fall 2017

#### Pennies Progress

### York County Pennies for Progress



#### US 21 North/SC Hwy. 51

Springfield Pkwy to SC 51, SC 51 to State Line

Existing 2-lane roadway

5-lane urban highway with curb-gutter, sidewalk, and shared use bike lanes

Designing 70% right of way plans

Planning to begin right-of-way acquisition by the end of this year

Construction anticipated for Fall 2019/Spring 2020





### York County Pennies for Progress

#### <u>SC 160 West</u>

- 5 lane widening from Gold Hill Road to North Carolina State Line

- Currently acquiring right of way
- Anticipate bidding the project in early/Spring 2018





### York County Pennies for Progress

#### <u>SC 160 East</u>

- 3 lane widening from FMSB to Lancaster County
- Finalizing Right of Way plans
- Right of way acquisition anticipated to begin by the end of the year









## York County Pennies for Progress



#### Creating the Project List

- Commission held community meetings all throughout the County to receive project requests.
- Commission received many citizen requests from the comment box at each meeting as well as the online request form
- Commission approved final list of projects in May 2017
- York County Council approved final list of projects on July 17, 2017
- The referendum was approved by the voters on November 7, 2017

### **Final Approved List**

Priority	Project	Cost
1	Pennies 3	\$60.00
	SC 557	
	SC 160 East	
	Riverview Road	
	Mount Gallant	
	SC 72	
2	Resurfacing w/ asphalt	\$50.00
3	Cel River	\$40.51
4	FMSB (I-77 to Railroad)	\$23.13
5	SC 557	\$25.52
6	Hubert Graham Ext.	\$2.83
7	SC 49/274/557	\$7.30
8	US 321/Kings Mountain	\$1.94
9	US 21/Springdale	\$6.82
10	Sutton Road Left Turns	\$3.00
11	Flint Hill St. Drainage	\$4.57
12	Celanese/US 21	\$1.59
13	US 21 Turn Lanes	\$1.03
14	Bate Harvey shoulder widening	\$2.95
15	US 21 (north)	\$35.88
16	**Neely Road	\$10.85
	Total	\$277.92

and the local

### York County Pennies for Progress



York Pennies 4 Proposed Projects

Pennies <sup>for</sup> Progress

Vork County









## York County Pennies for Progress



- Public Education
- BUDGETS!!!
  - Determining the appropriate budget in the beginning of the referendum is crucial to the life of the program
  - Risk Analysis with Monte Carlo Simulation


### **Addressing Cost and Schedule Concerns**

Usual Questions How much will it cost?

• How long will it take?

Why does it cost that much?Why does it take that long?

- Risk Identification
- Qualitative and Quantitative Risk Analysis
- Value Engineering &Mitigation Strategies
- Risk Monitoring & Control

Analysis Needs

# **Overview of Project Cost**

Base cost estimate serves as the basis against which cost risks and uncertainties are assessed Estimating is not an exact science:

- Cost estimate is only an approximation of the probable costs
- Composed of many elements that may not be completely or equally defined at the time the estimate is prepared

A numerical value of uncertainty is an estimate of the error or tolerance within the quantity or unit price of an item.

Level of uncertainty is directly related to its position in the project life cycle



#### **Project Cost**



**Project (Schedule)** 

### **Traditional Estimate Vs. Risk Based Estimate**



#### What is Monte Carlo?





in succession







York County Pennies for Progress





York County Pennies for Progress







# www.penniesforprogress.net Patrick Hamilton, PE Program Manager 803-818-5763

Statistics.





# Clifton Goolsby, P.E. Transportation Manager <u>Clifton.Goolsby@cityofrockhill.com</u> Phone # (803) 329-8722



# **Meeting Outline**

- I. Planning
  - I. Growth
  - II. Groups Involved/Funding
  - III. Planned Projects
- II. Engineering
  - I. Operational Efficiency
  - II. Safety



# **Reasons for Growth**

- Good Schools
- Low Taxes
- Lower Cost of Living
- Proximity to Charlotte



# **Traffic Related to Growth**





# Developments





# **Results of Growth**

#### \*Table of traffic volumes associated with population growth.



# **Existing Road Network**





### **Travel Areas**





# Projects in the I-77 Corridor

#### • County Projects along I-77



# Projects in the I-77 Corridor





- SCDOT: South Carolina Department of Transportation
- RFATS: Rock Hill Fort Mill Area Transportation Study
- Pennies for Progress
- York County
- Local Municipalities
  - Fort Mill
  - Tega Cay
  - Rock Hill



# **Completed CMAQ Project**





# **CMAQ Project in Construction**





# **Completed CMAQ Project**





# Upcoming CMAQ Project





### Future CMAQ Project





### Future CMAQ Project





- Mt. Gallant at Cherry
- I-77/US 21 South Interchange Improvements
- Celanese Improvements (per RFATS study)
- Signal Timing/Coordination
- Ebenezer @ Herlong
- Mt. Gallant @ Anderson
- Dave Lyle @ Springsteen/John Ross



#### • Pennies for Progress: Programs 1 – 3

Program	Referendum Passed	Tax Expired	Budget	Spent as of January 2016	Number of Projects
1	Nov-97	6 Years	\$190,307,450	\$189,754,776	14
2	Nov-03	7 Years	\$172,000,000	\$124,852,040	25
3	Aug-11	Apr-18	\$161,000,000	\$39,809,200	14

• Pennies for Progress (4): Estimated \$225M over 7 Years

- Sales Tax Commission has started its work
- In the listening phase
- Program developed later this year
- Finalized by early 2017



# **Old Projects**

• Ebinport Rd





# **Old Projects**

#### Eden Terrace – Bradley to Anderson



#### Ebenezer Road – Celanese to Frank Gaston



# **Potential New Projects**

• Manchester/Galleria Flyover





# **Potential PFP-4 Projects**

- 1. Ebinport Rd
- 2. Cel-River/Red River
- 3. Eden Terrace
- 4. I-77 Flyover
- 5. US 21/Springdale Interchange
- 6. Celanese Corridor Improvements
- 7. Mt. Gallant 5 Lanes

- 8. Ebenezer Rd
- 9. Main & Constitution & Black& Allen
- 10. India Hook Rd Widening
- 11. Paragon Way Connector
- 12. Twin Lakes Rd
- 13. Neely @ Rawlsville (SPH)
- 14. Crawford @ Neely
- 15. Neely Road



# **Efficiency: Traffic Signals**

\*Congestion along a corridor often is a result from intersections

- Traffic Signals: (Serves some traffic by delaying/stopping other traffic)
  Progression of an intersection
  - Need for a traffic signal
  - Need for left turn lanes



# **Progression of an Intersection**

#### 4 Phase Signal



#### 8 Phase Signal





# Left Turn Phases





# Movements: Celanese/Riverchase




# **Existing Celanese/Riverchase**



Celanese Rd

#### **Riverchase Blvd**







## **CMAQ Improvement Project**





# Future Celanse/Riverchase



Celanese Rd

#### **Riverchase Blvd**









- How safe are the existing conditions?
  - What are existing safety concerns?
  - What can be done to improve the safety concerns?
  - How bad are the existing conditions?
- How effective will changes improve safety?
  - What unsafe situations can be improved?
  - How effective will potential improvements be?
  - \*Will planned improvements be detrimental to safety?

















### \*Image of Improvement











### **Conflict Points**







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#### York County Transportation Programs Tuesday, September 4<sup>th</sup> 3 - 4:30PM

- Presenters: Chris Herrmann Transportation Planner Patrick Hamilton, P.E. – Program Manager, Pennies for Progress Clifton Goolsby, P. E. – City of Rock Hill Transportation Manager
  - I. Rock Hill-Fort Mill Area Transportation Study (RFATS) Chris Herrmann
    - A. History
    - B. Area Growth
    - C. Processes
    - D. Upcoming Projects
  - II. Pennies for Progress Patrick Hamilton
    - A. History
    - B. Processes
    - C. Past Projects
    - D. Current & Future Projects
  - III. City/Local Government Clifton Goolsby
    - A. History
    - B. Safety
    - C. Signal Systems/Timing
    - D. Access
  - IV. Questions/Answers