

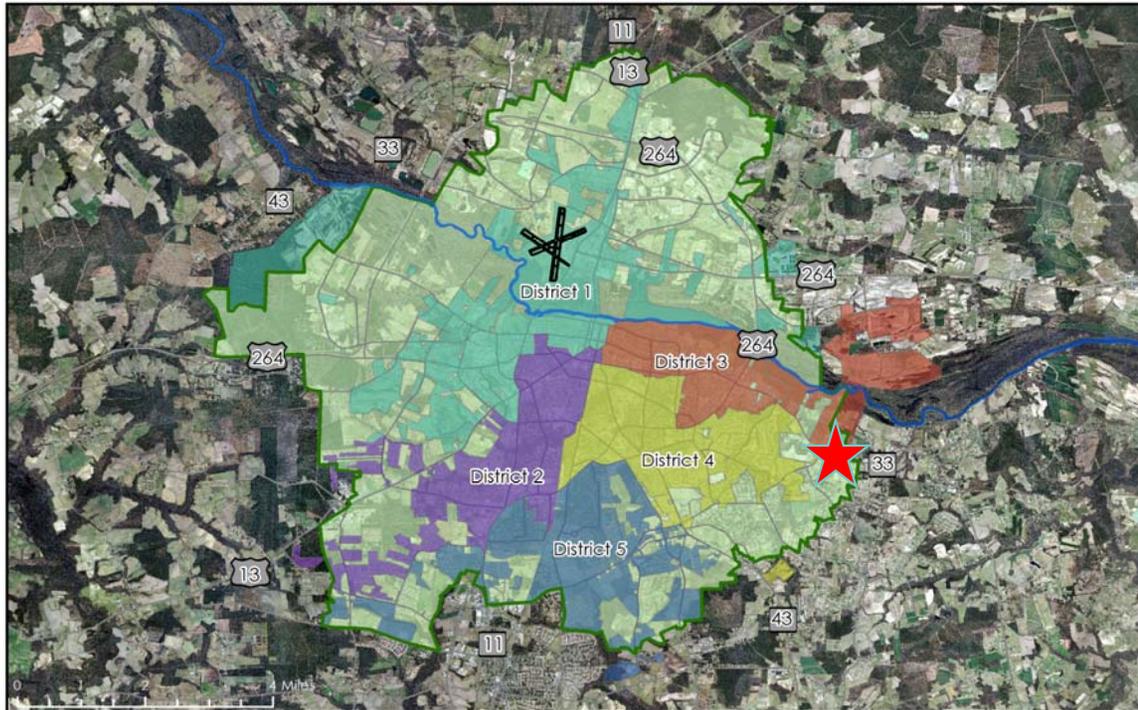
8.18.16  
**City Council Meeting**

## Item 2:

# Public Hearings

Ordinance to annex Parkside Bluffs,  
Section 2, Phase 1 involving 2.804 acres  
located near the northeast corner of the  
intersection of East 10<sup>th</sup> Street and  
Parkside Drive

## General Location Map



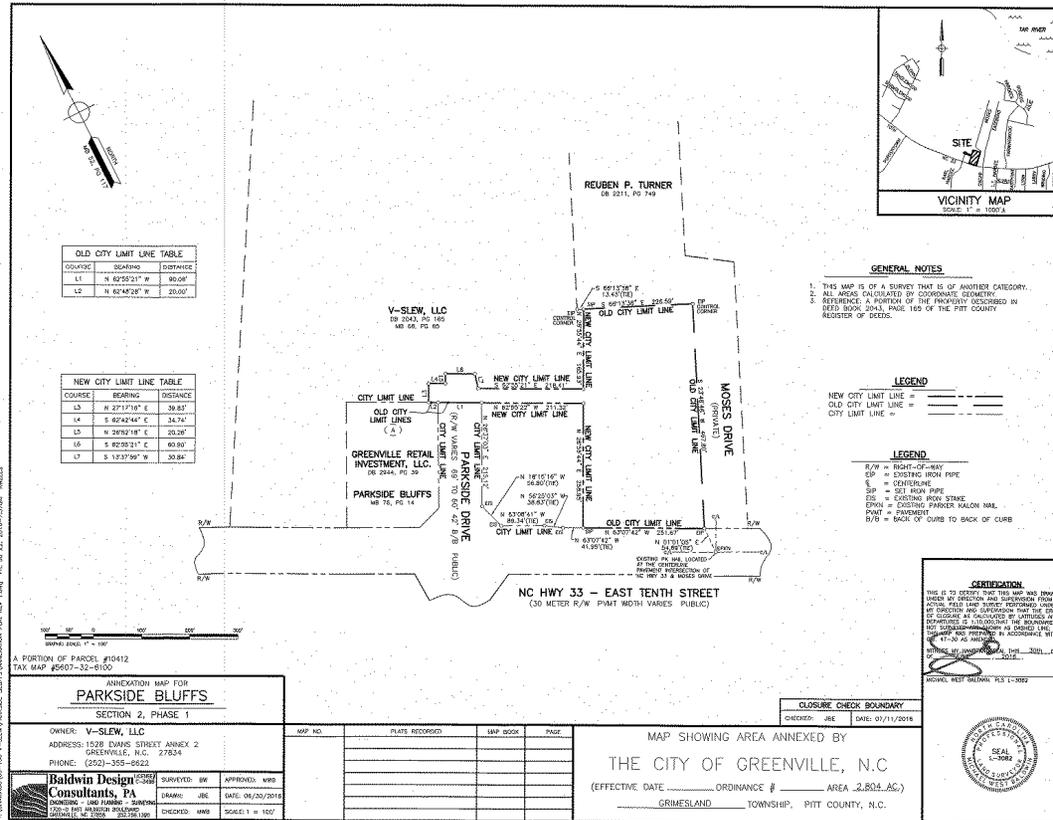
### Map Legend

- |   |  |  |
|---|--|--|
|  Greenville's ETJ              |  District 1 |  District 4 |
|  Pitt-Greenville Airport (PGV) |  District 2 |  District 5 |
|  Tar River                     |  District 3 |  |

## Aerial Map 2012



# Survey

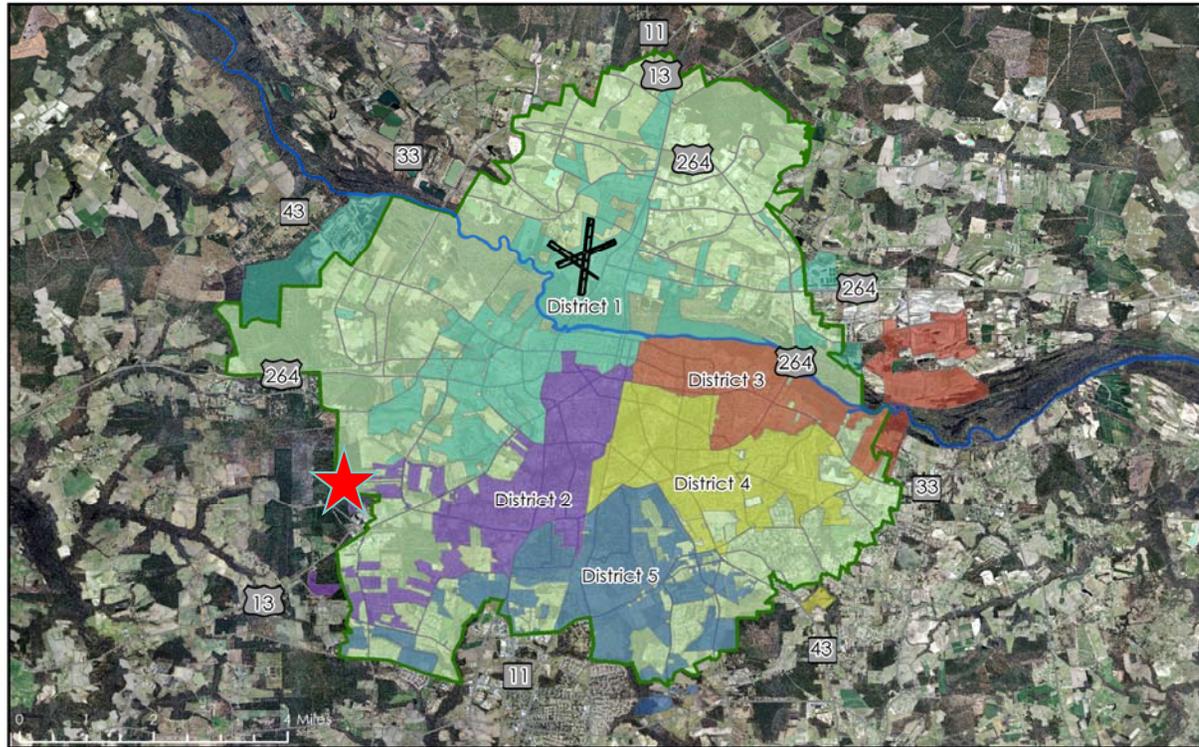


## Item 3:

# Public Hearings

Ordinance to annex Teakwood Green, Phase II involving 9.37 acres located at the termini of Presidio Lane and Teakwood Drive

## General Location Map



### Map Legend

 Greenville's ETJ	 District 1	 District 4
 Pitt-Greenville Airport (PGV)	 District 2	 District 5
 Tar River	 District 3	

## Aerial Map 2012



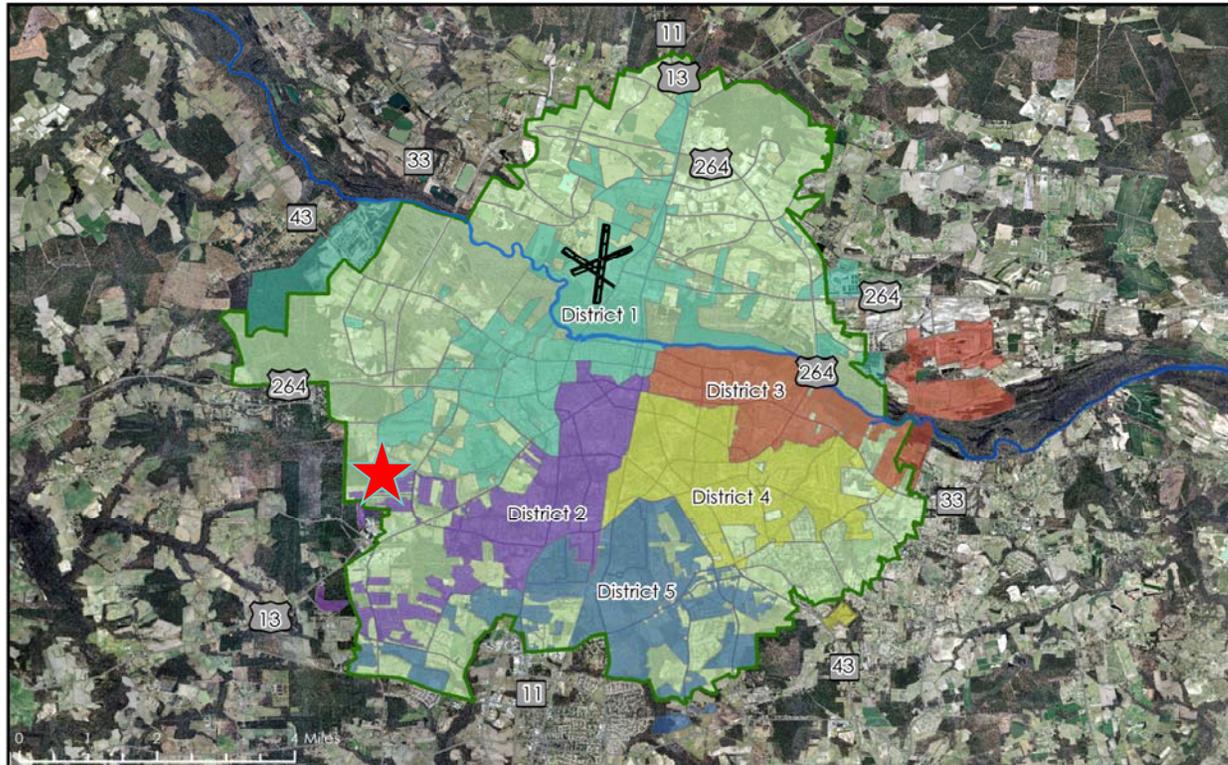


## Item 4:

# Public Hearings

Ordinance to annex Woodridge Corporate Park, Portion of Phase 2 involving 20.00 acres located at the current terminus of Woodridge Park Road

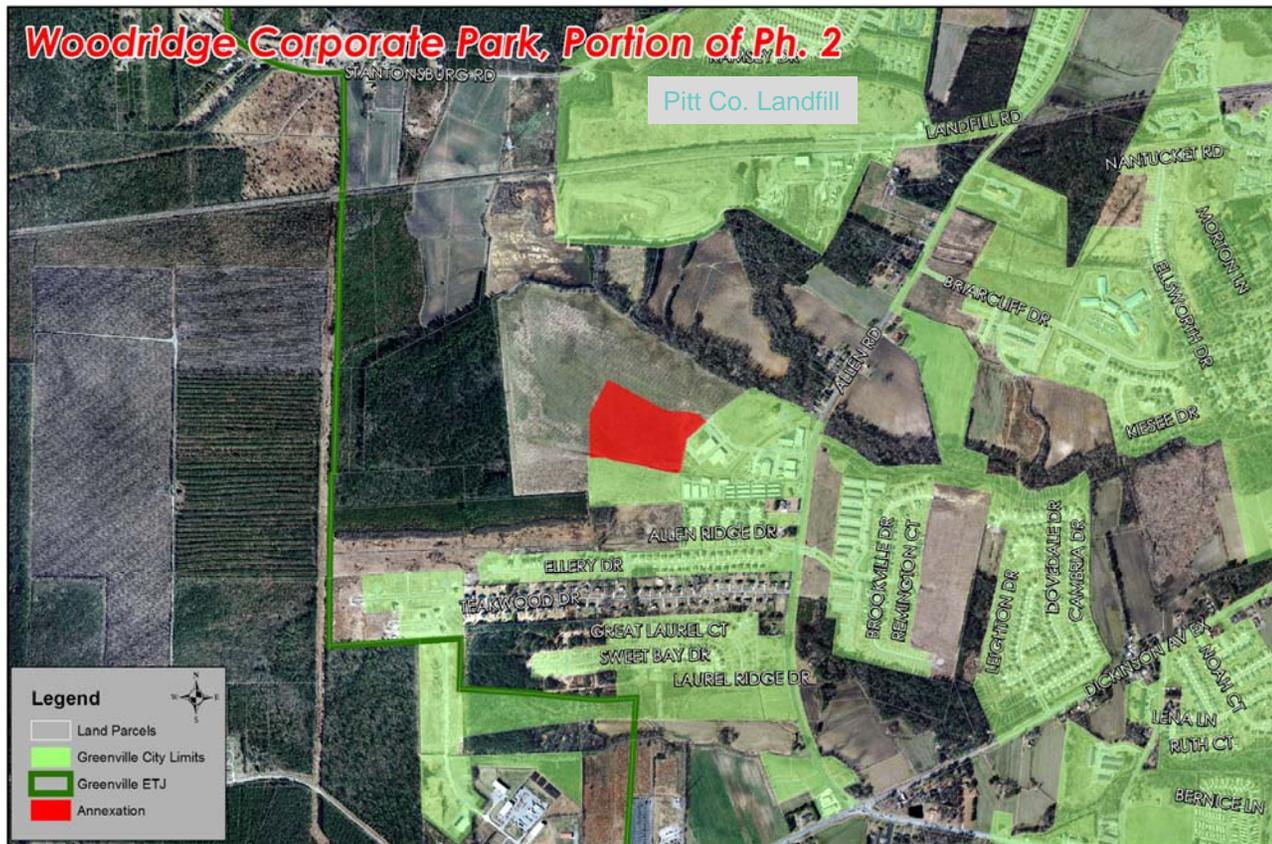
## General Location Map



**Map Legend**

- |   |  |  |
|---|--|--|
|  Greenville's ETJ              |  District 1 |  District 4 |
|  Pitt-Greenville Airport (PGV) |  District 2 |  District 5 |
|  Tar River                     |  District 3 |  |

## Aerial Map 2012



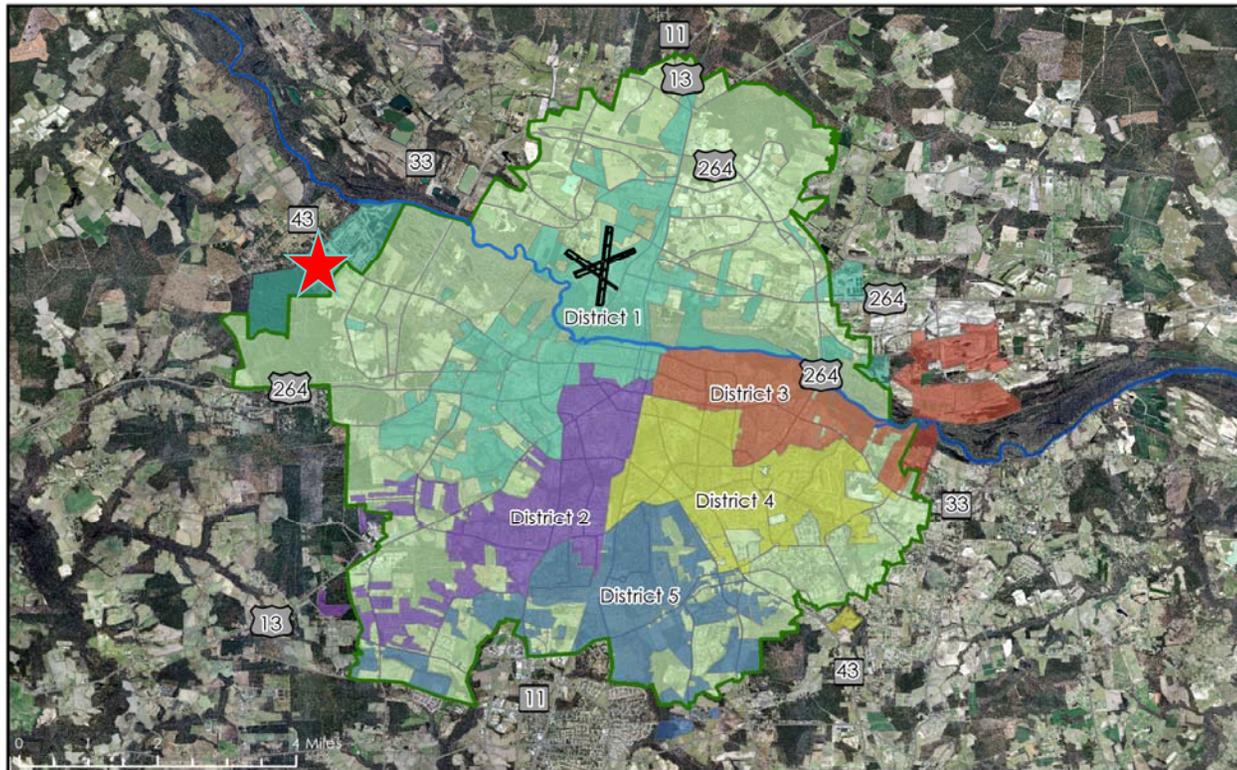


## Item 5:

# Public Hearings

Ordinance requested by Greenville Utilities Commission to rezone 83.15 acres located at the southwestern corner of the intersection of Martin Luther King, Jr. Highway and NC Highway 43 from RA20 (Residential-Agricultural) to CH (Heavy Commercial)

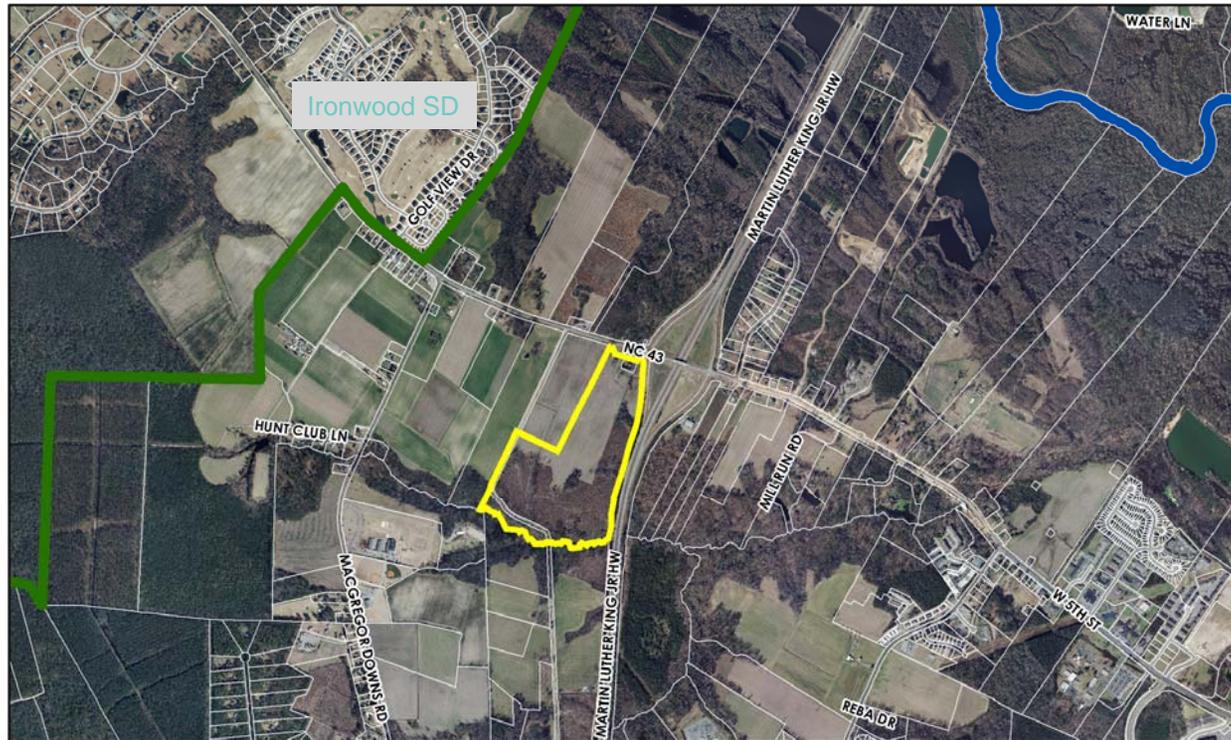
## General Location Map



**Map Legend**

 Greenville's ETJ	 District 1	 District 4
 Pitt-Greenville Airport (PGV)	 District 2	 District 5
 Tar River	 District 3	

## Aerial Map 2012



### Map Legend

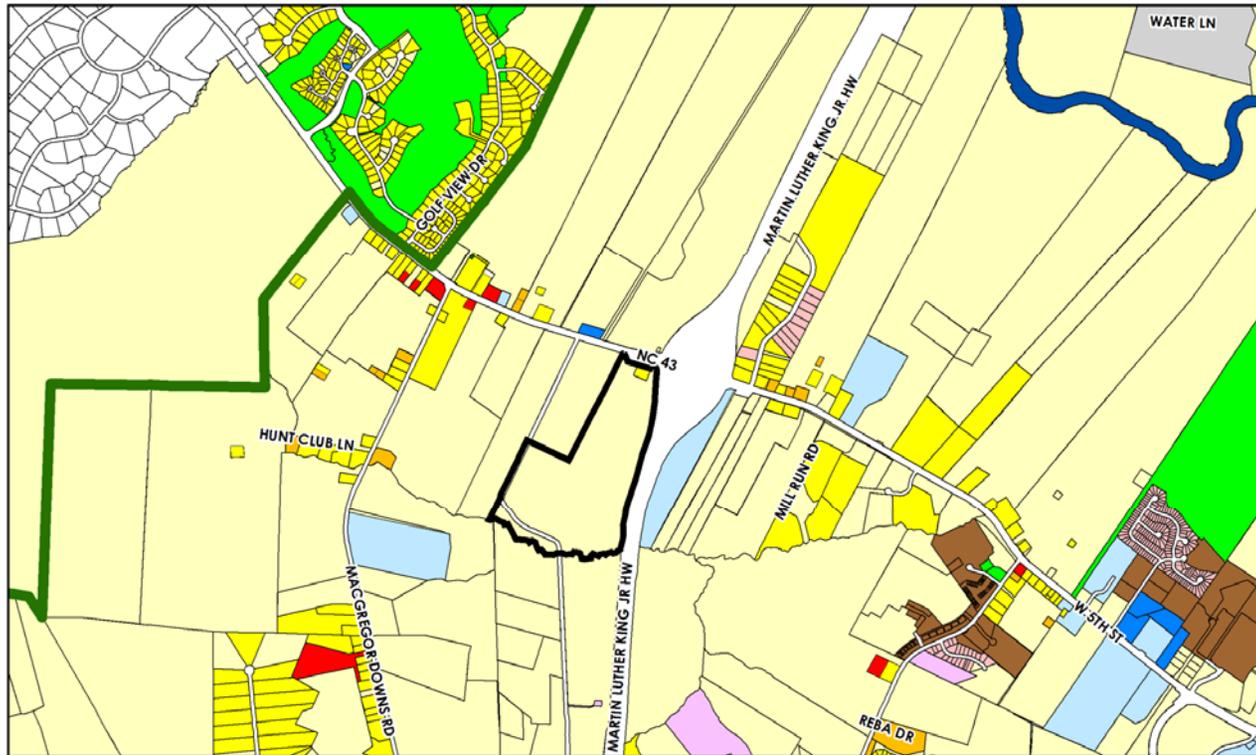
 Land Parcels  Rezoning Site



## NC HWY 43



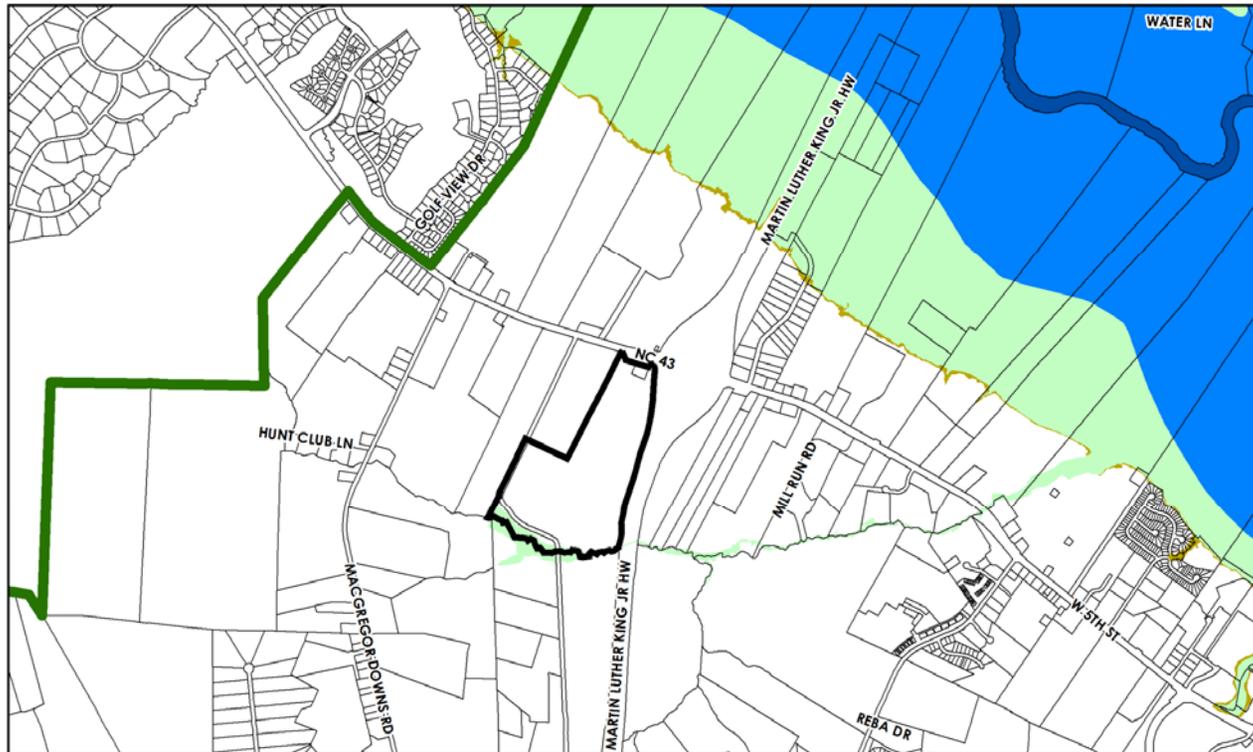
## Existing Land Use



Map Legend

 Land Parcels	 Cemetery	 Industrial	 Mobile Home	 Office	 Single Family
 Rezoning Site	 Commercial	 Institutional	 Mobile Home Park	 Public Parking	 Utility
	 Duplex	 Landfill	 Multi-Family	 Recreation	 Vacant

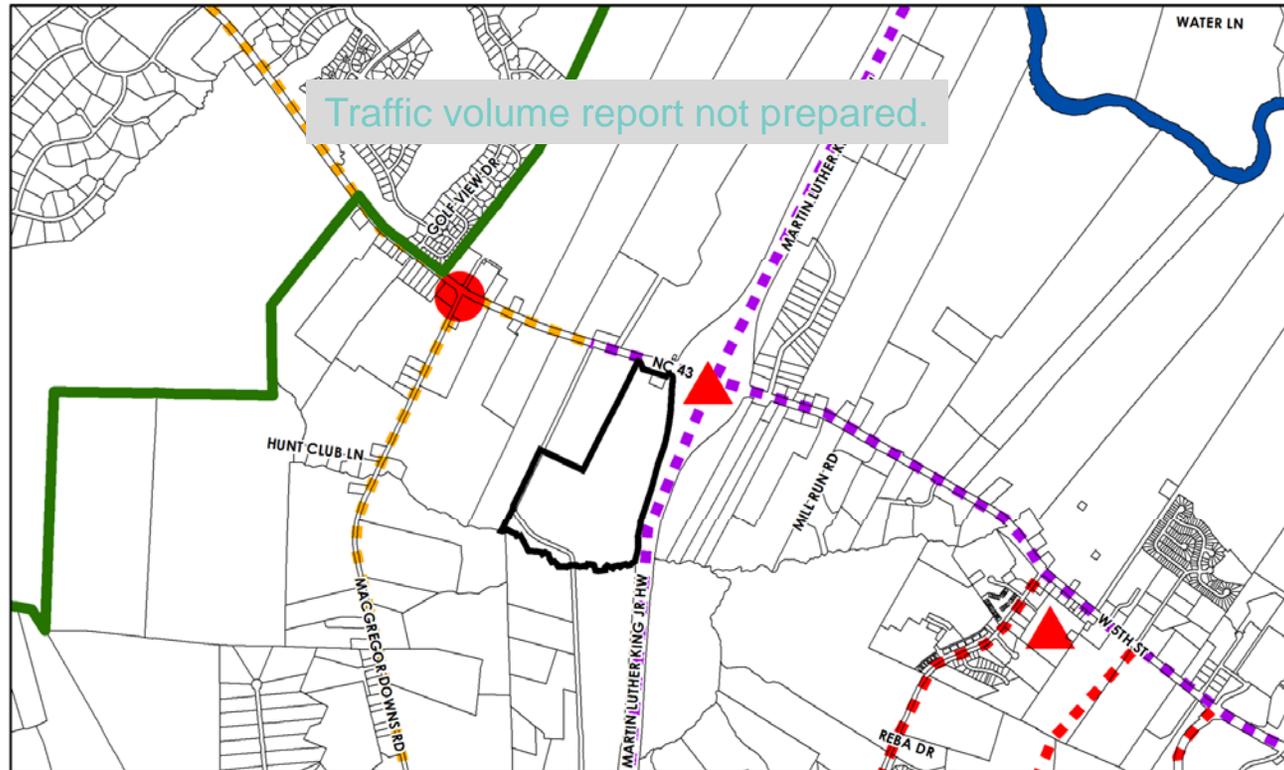
## Floodplain Map



### Legend

- |   |                           |   |             |   |                   |
|---|---------------------------|---|-------------|---|-------------------|
|  | Preliminary Plat Boundary |  | A = 100 yr  |  | AEFW = Floodway   |
|  | Land Parcels              |  | AE = 100 yr |  | SHADED X = 500 yr |

# Corridor and Focus Area



**Map Legend**

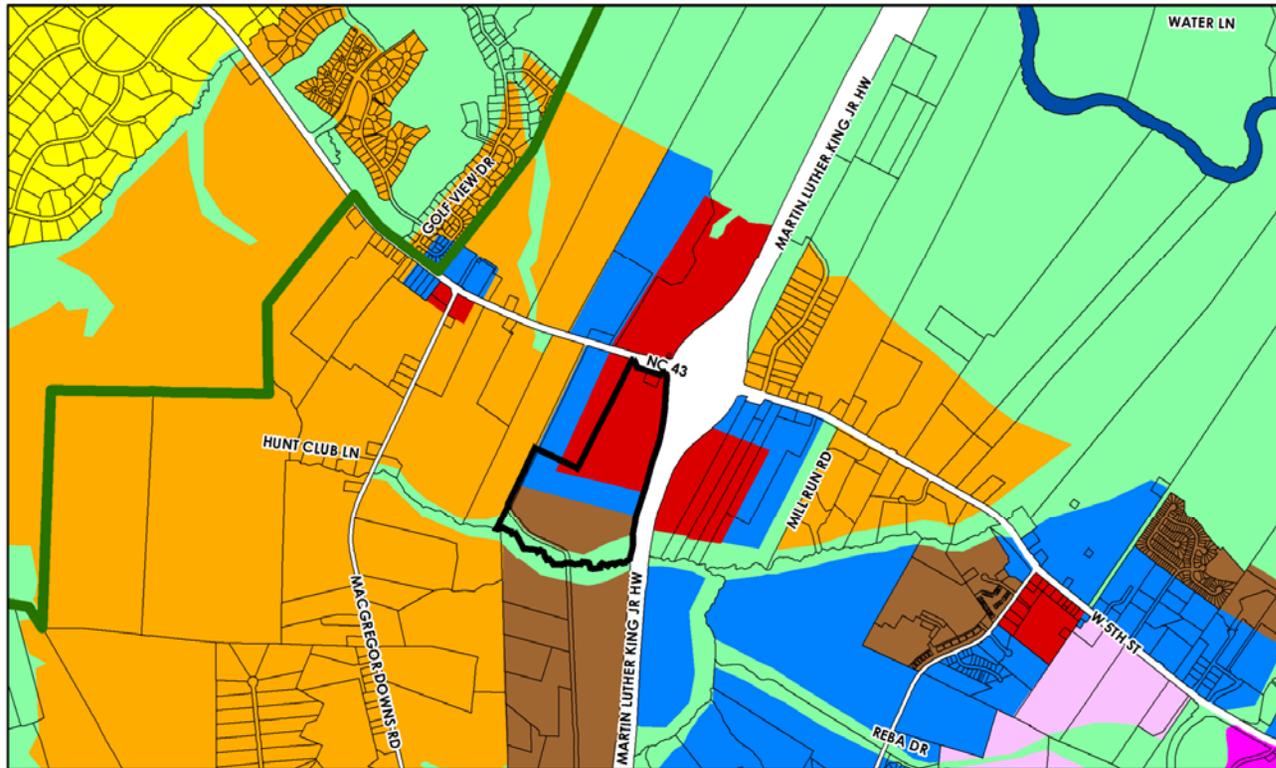
Land Parcels	Employment Education	Employment Medical	Neighborhood (20,000 to 40,000)	Gateway
Rezoning Site	Employment Industrial	Intermediate (50,000 to 150,000)	Regional (400,000 plus)	Residential
Community (175,000 to 350,000)				Connector

# Zoning Map



**Legend**

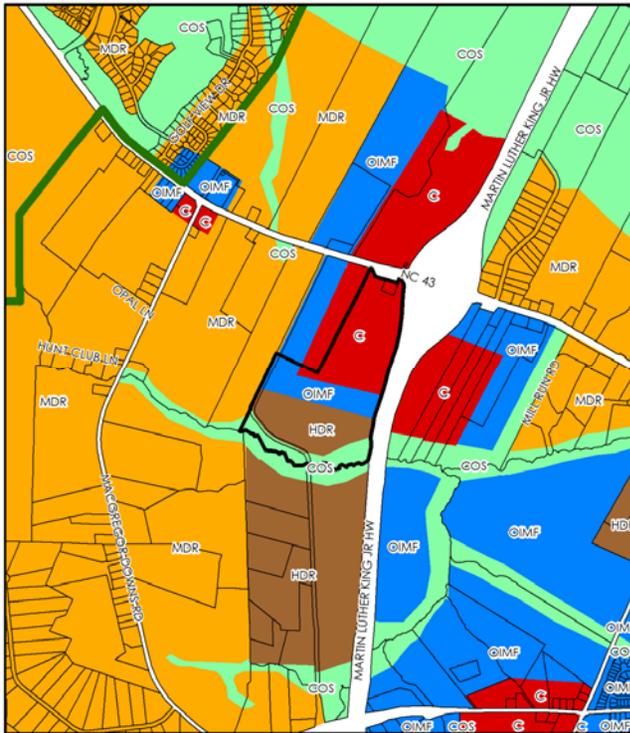

## Future Land Use Plan Map



**Map Legend**

	Land Parcels		Commercial		Medical Transition		High Density Residential		Very Low Density Residential
	Rezoning Site		Mixed Use / Office / Institutional		Office / Institutional / Medical		Medium Density Residential		Conservation / Open Space
	Industrial		Medical Core		Office / Institutional / Multi-Family		Low Density Residential		

## Future Land Use Plan/Zoning Maps



**Map Legend**

Land Parcels	Commercial	Medical Transition	High Density Residential	Very Low Density Residential
Rezoning Site	Mixed Use / Office / Institutional	Office / Institutional / Medical	Medium Density Residential	Conservation / Open Space
Industrial	Medical Core	Office / Institutional / Multi-Family	Low Density Residential	

**Legend**

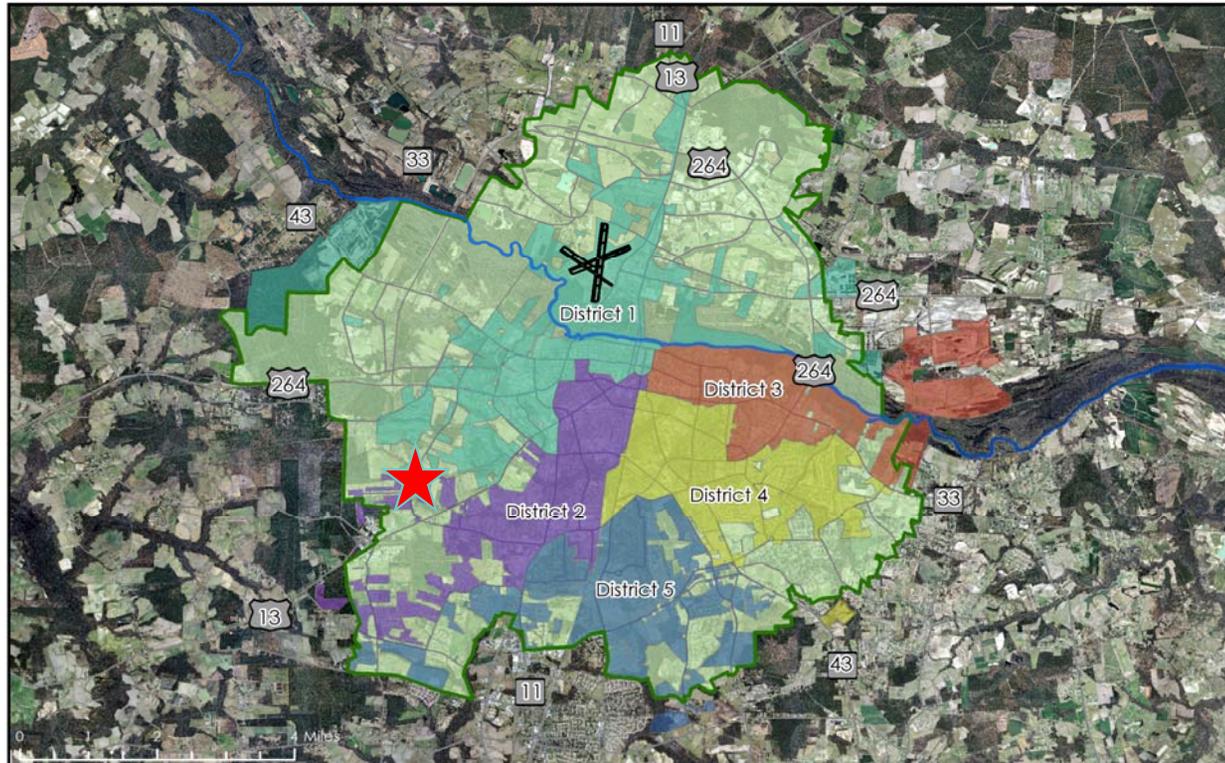
Land Parcels	CD	CH	MCH	MCG	I	PIU	MS	OR-UC	R6	R6A	R6A-CA	R6A-RU	R6B	R6B-MH	R6B-N	R6S	R9	R9S	R15S	PUD	MR	MRS	RA20
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## Item 6:

# Public Hearings

Ordinance requested by Happy Trails Farms, LLC to amend the Future Land Use Plan Map from office/institutional/multi-family (OIMF) and conservation/open space (COS) categories to a commercial (C) category containing 15.13+/- acres to amend the Horizons: Greenville's Community Plan Focus Area (or commercial node) Map designation for the property located near the southwestern corner of the intersection of Allen Road and Landfill Road from a "Neighborhood Focus Area" to a "Regional Focus Area"

## General Location Map



### Map Legend

 Greenville's ETJ	 District 1	 District 4
 Pitt-Greenville Airport (PGV)	 District 2	 District 5
 Tar River	 District 3	

## Aerial Map 2012



### Map Legend

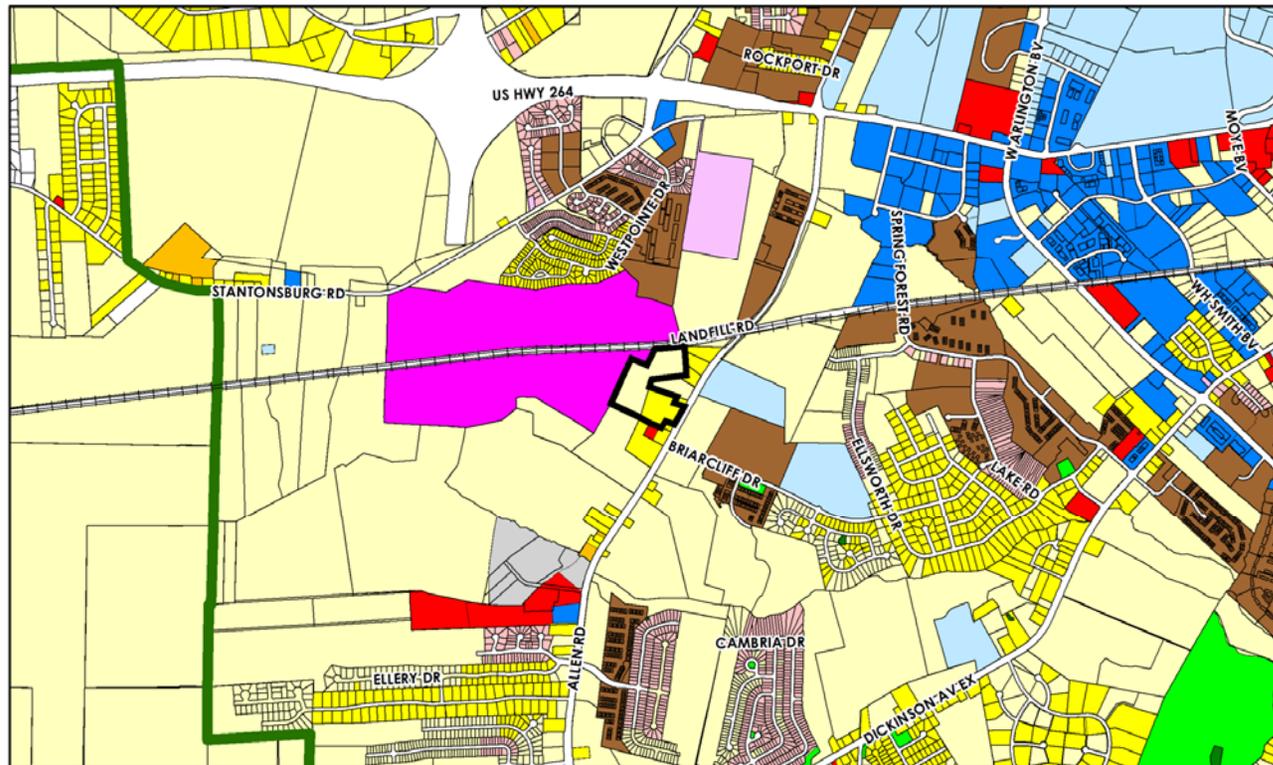
-  Land Parcels
-  Rezoning Site



## Allen Road



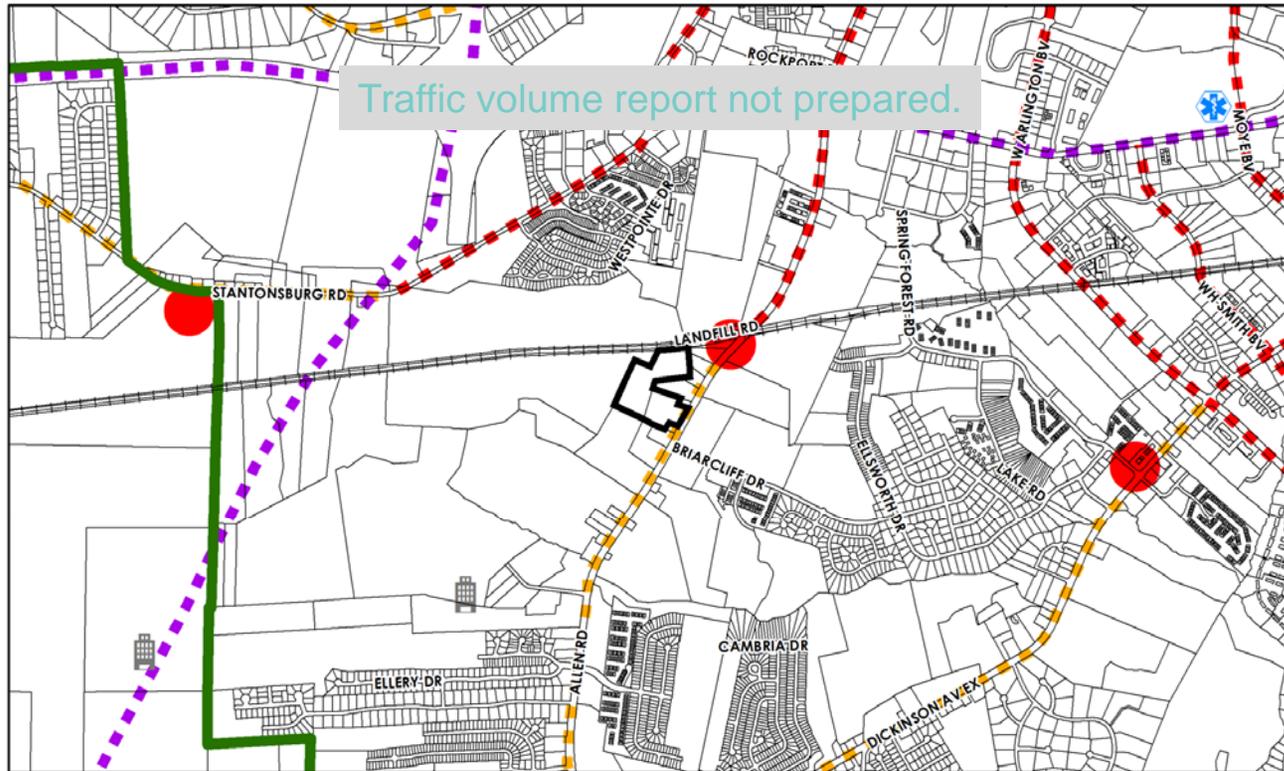
## Existing Land Use



**Map Legend**

 Land Parcels	 Cemetery	 Industrial	 Mobile Home	 Office	 Single Family
 Rezoning Site	 Commercial	 Institutional	 Mobile Home Park	 Public Parking	 Utility
	 Duplex	 Landfill	 Multi-Family	 Recreation	 Vacant

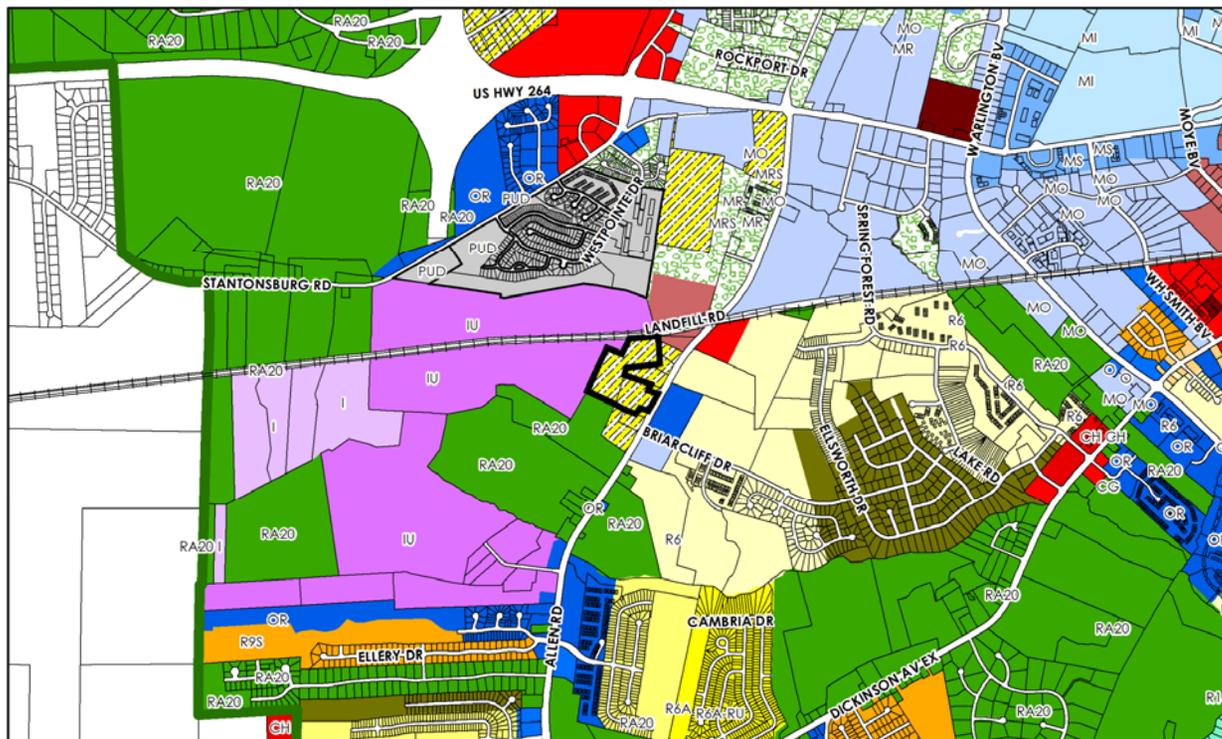
# Corridor and Focus Area



**Map Legend**

 Land Parcels	 Employment Education	 Employment Medical	 Neighborhood (20,000 to 40,000)	 Gateway
 Rezoning Site	 Employment Industrial	 Intermediate (50,000 to 150,000)	 Regional (400,000 plus)	 Residential
 Community (175,000 to 350,000)				 Connector

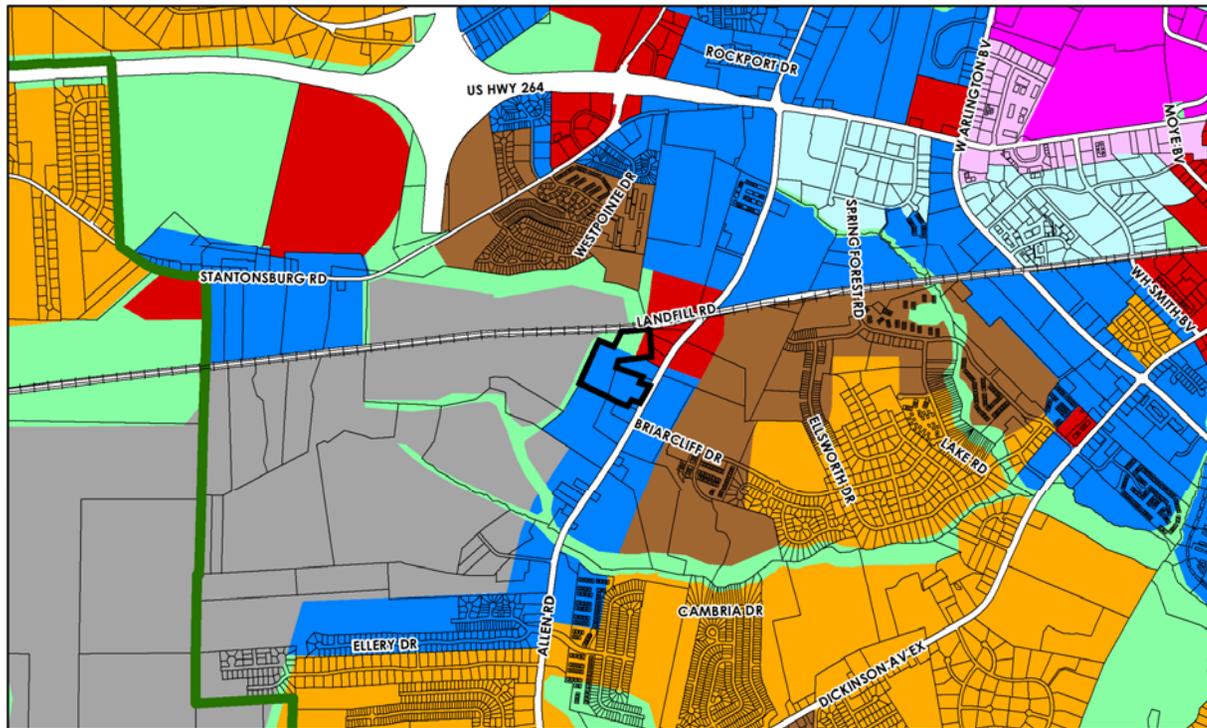
# Zoning Map



**Legend**

 Land Parcels	 CDF	 CN	 I	 MI	 O	 R6	 R6A-RU	 R6S	 R9S-CA	 MR
 Rezoning	 CG	 MCH	 IU	 MO	 OR	 R6A	 R6MH	 R9	 R15S	 MRS
 CD	 CH	 MCG	 PIU	 MS	 OR-UC	 R6A-CA	 R6N	 R9S	 PUD	 RA20

## Future Land Use Plan Map

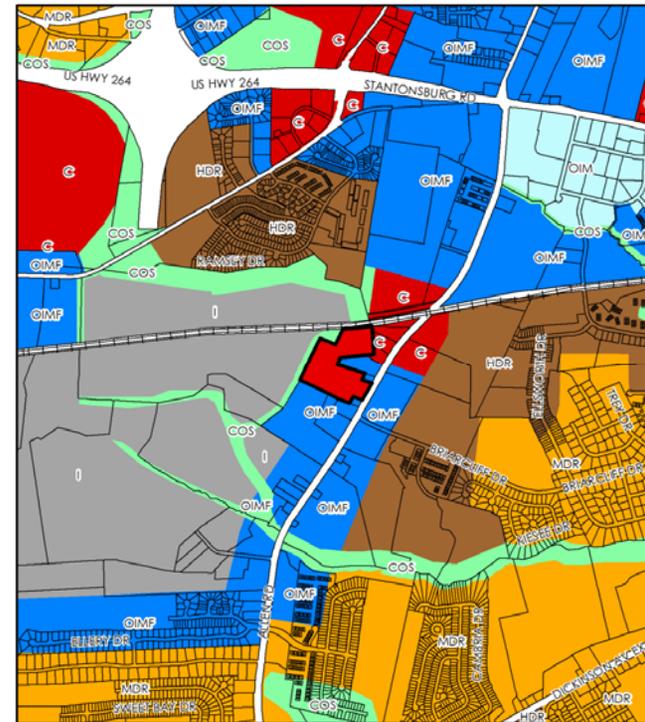
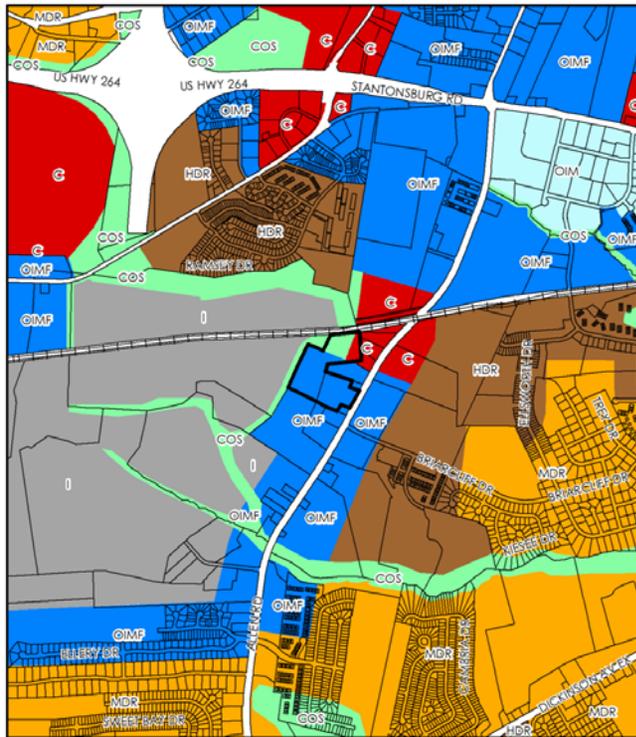


**Map Legend**

 Land Parcels	 Commercial	 Medical Transition	 High Density Residential	 Very Low Density Residential
 Rezoning Site	 Mixed Use / Office / Institutional	 Office / Institutional / Medical	 Medium Density Residential	 Conservation / Open Space
 Industrial	 Medical Core	 Office / Institutional / Multi-Family	 Low Density Residential	

## Future Land Use Plan Map Proposed

### Current



“Compatible with the comprehensive plan” if:

- Determined by Planning and Zoning Commission and City Council to be necessary as a result of changed conditions, in the local development pattern, street system, environment, or other major feature or plan which, impacts the site in a manner or to a degree not previously anticipated at the time of adoption of the current Future Land Use Plan Map; and
- Location support the intent and objective of the current FLUPM, Focus Area Map, and Transportation Corridor Map and other contextual considerations of the comprehensive plan; and
- Resulting anticipated land use is properly located with respect to existing and future adjoining and area uses and the proposed change is not anticipated to cause undue negative impacts on localized traffic, the natural environment or existing and future neighborhoods and businesses within and in proximity to the area of proposed amendment; and
- Amendment is anticipated to result in a desirable and sustainable land use pattern to an equal or greater degree than existed under the previous plan recommendation.

## Item 7:

# Public Hearings

Ordinance to amend the Subdivision Ordinance by adding advertisement requirements for preliminary plat reviews by the Planning and Zoning Commission

This text amendment application proposes to amend Title 9, Chapter 5, Article B, Section 9-5-46, by adding an advertisement requirement as follows:

(b). Before final action is taken by the Planning and Zoning Commission on a preliminary plat, notice that the preliminary plat will be reviewed at a meeting shall be published. The notice shall be given once a week for two successive weeks in a newspaper having general circulation in the area. The notice shall be published the first time not less than 8 days nor more than 25 days before the date of the meeting. In computing such period the day of publication is not to be included but the day of the meeting is to be included.

The proposed Subdivision Ordinance Text Amendment is in compliance with Horizons: Greenville's Community Plan 2004. Section 4 – Implementation Element, Administration:

Objective 1

**Establish effective citizen/public participation in the Greenville planning process.**

Strategy 1(a)

**Advertise all meetings of the Greenville Planning and Zoning Commission and Board of Adjustment through newspaper advertisements and public service announcements.**

## **Planning and Zoning Commission Recommendation, 7/19/16:**

The Planning and Zoning Commission unanimously approved a motion to recommend approval of the proposed text amendment.

Item 9:

## **Public Hearings**

Resolution requesting the Greenville Urban Area Metropolitan Planning Organization (MPO) to modify the Comprehensive Transportation Plan (CTP) Highway Map

CTP = Comprehensive Transportation Plan

Replaces what was previously known as the  
“Thoroughfare Plan”.

Long-range vision for transportation facilities.

Council to consider requesting the MPO to  
amend the CTP Highway Map for the following  
8 changes:

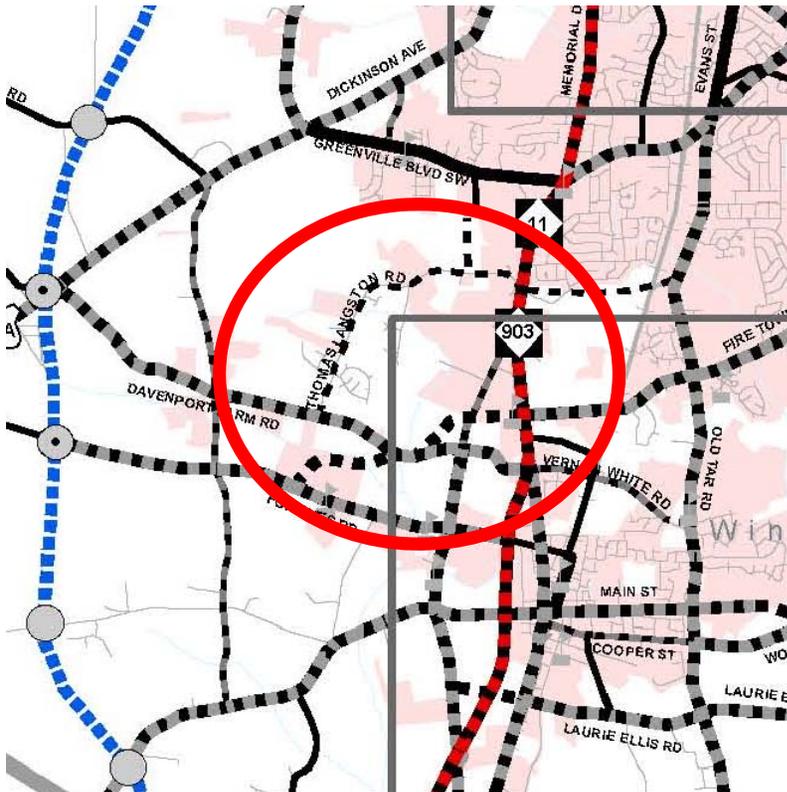
# W.H. Smith Blvd.

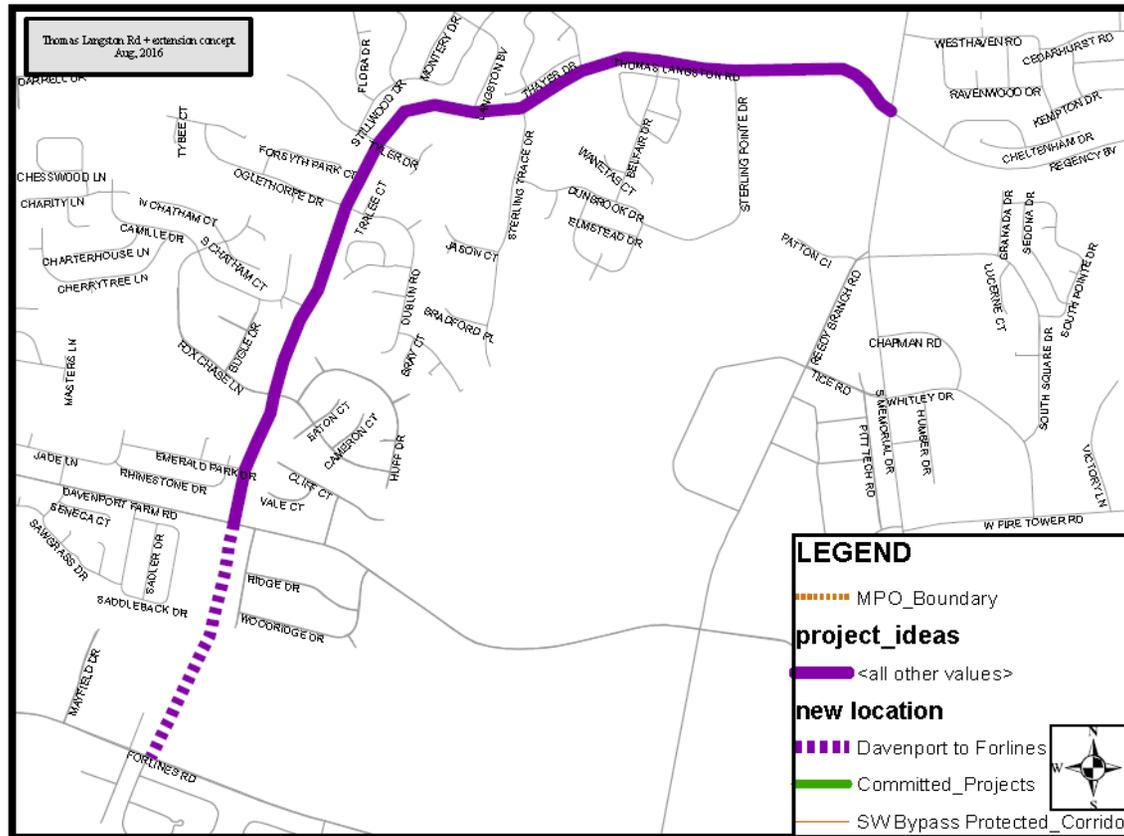


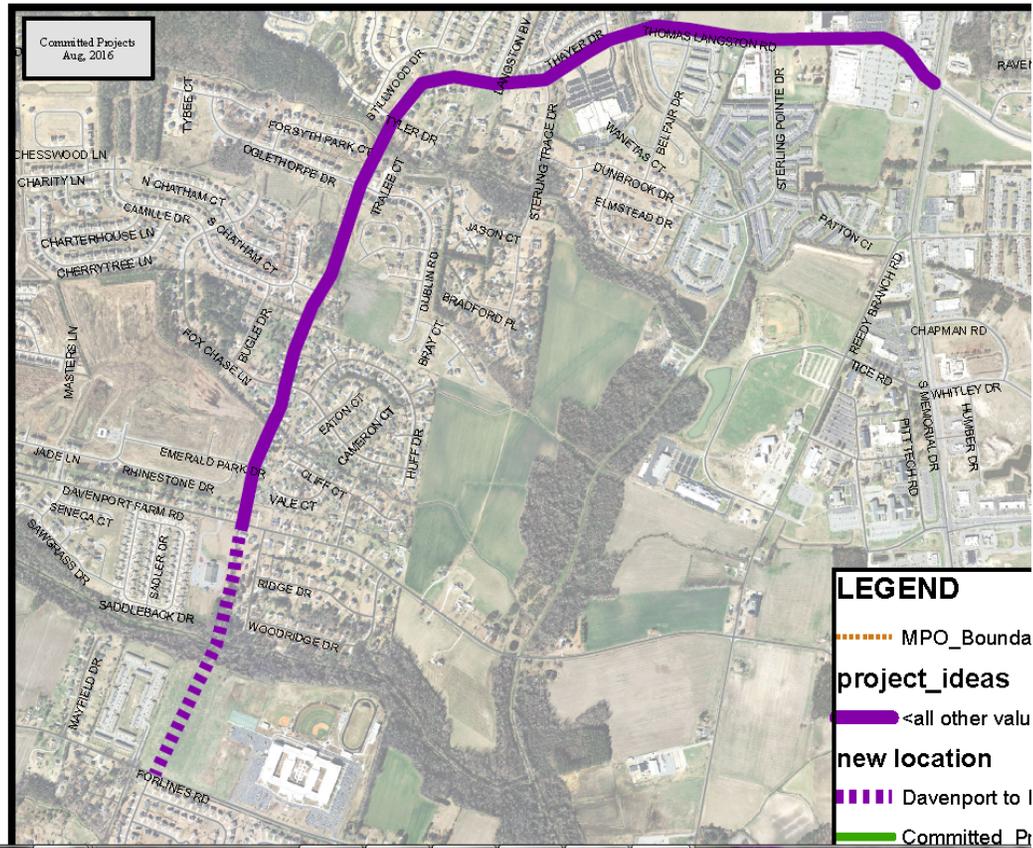




## 4. Thomas Langston Rd

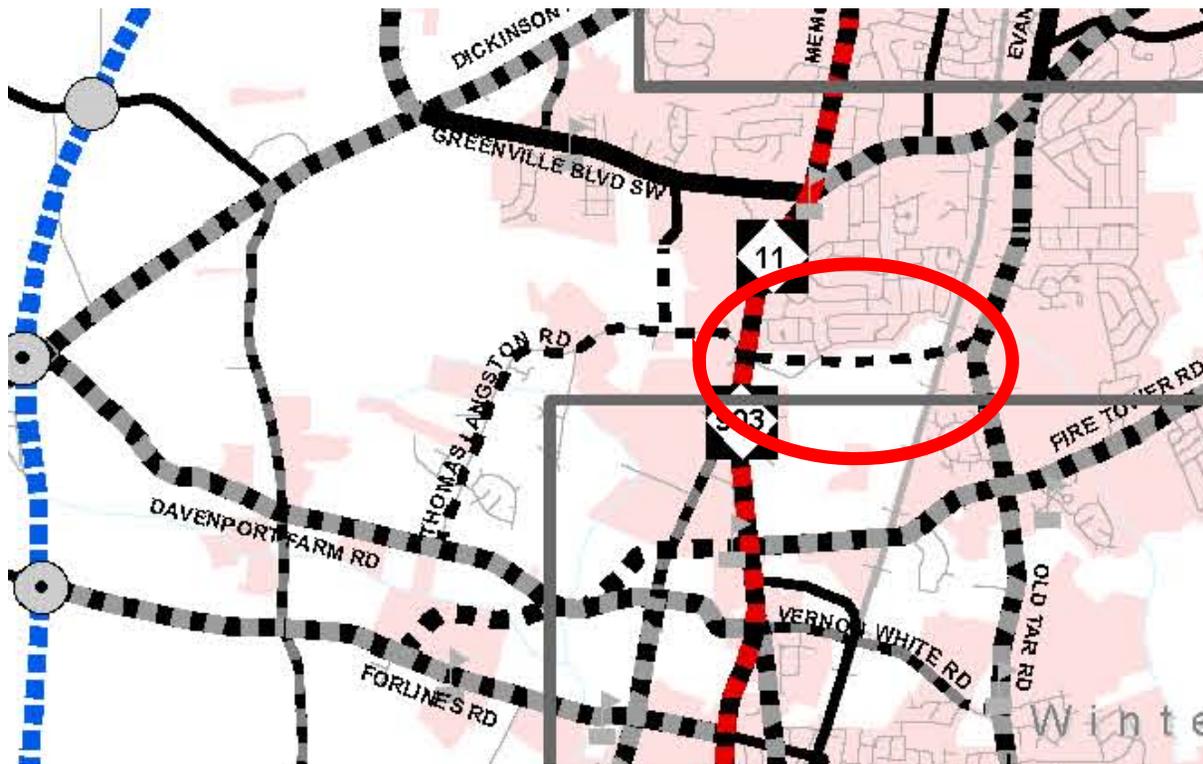




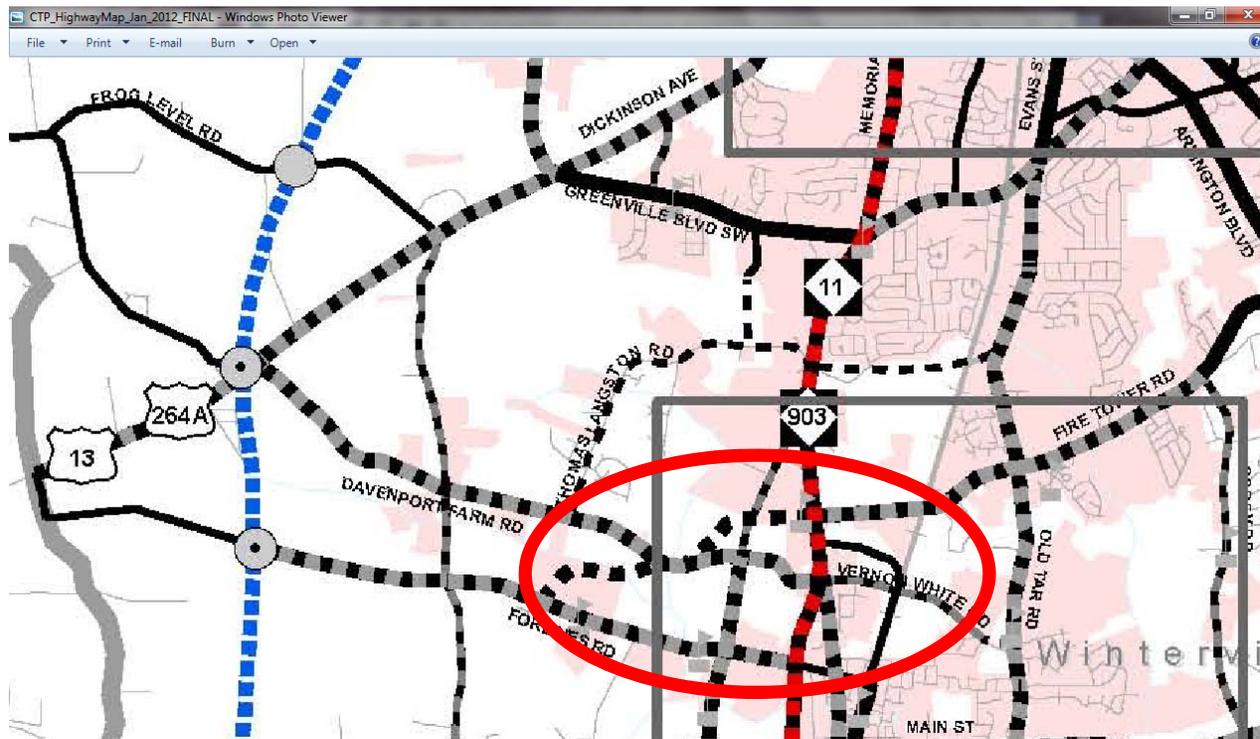


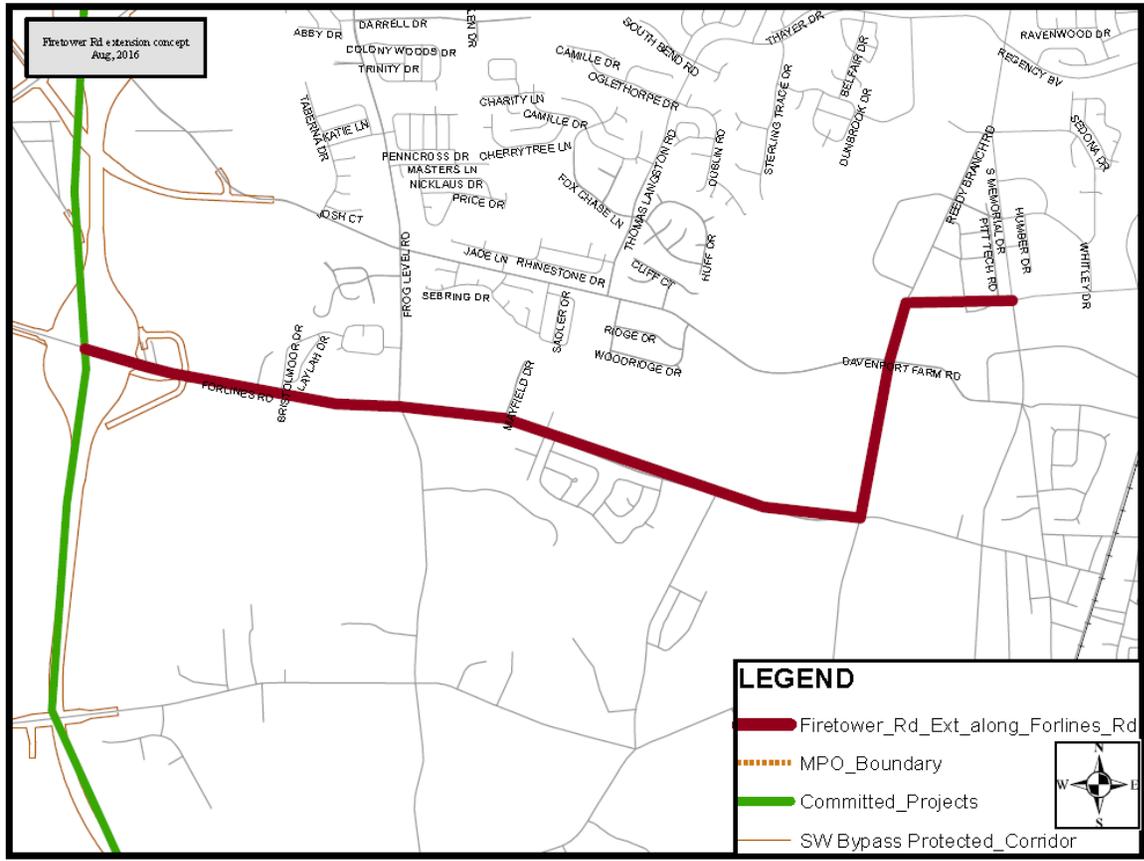


## 5. Regency Blvd

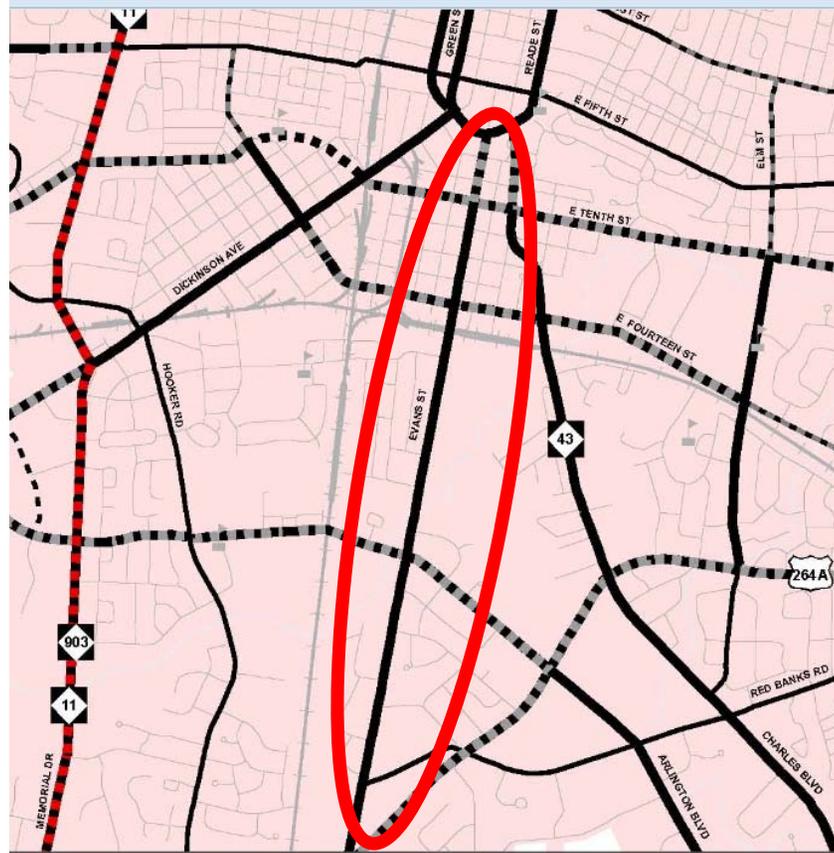


## 6. Firetower Rd extension

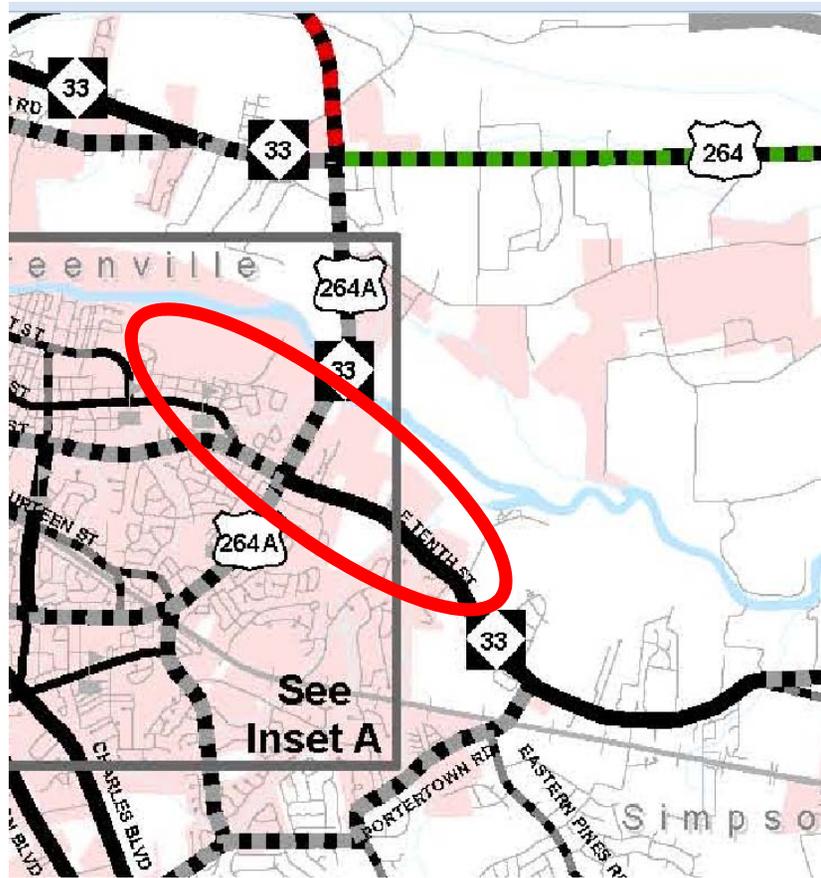




# 7. Evans St



# 8. NC 33



Item 10:  
**Presentation of the Citywide  
Streetlight Conversion to LED  
and Relationship to Crime  
Statistics**

## Presentation Outline:

- Background Information
- Cost Structure
- Previous Upgrades (since 2012)
- Upgrades in CRIA locations
- Pre/Post Crime Statistics in CRIA areas
- New LED conversions
- New LED installations

## Background Information:

- Streetlights located within ROW of City and State Roads and at City owned facilities.
- Approximately 7,000 street lights
- Operating Budget = \$1.56M
- Capital Budget = \$0.25M
- FY17 Allocation - \$1.81M

**Cost Structure:** Streetlights on City and State (and City facilities) roads are funded by City and GUC

**CITY**

Identifies Locations & Type

Responsible for 100% capital costs for new streetlight installation

Responsible for 50% operating costs

**Cost Structure:** Streetlights on City and State (and City facilities) roads are funded by City and GUC

**GUC**

Installs and Maintains Streetlights

Develops Cost Structure

Reimburses City 50% on Operating costs

## Cost Structure:

Light Type	Number of Lights	Unit Cost per Month	Annual Cost
250W Sodium	1384	\$18.59	\$308,742.72
250W Mercury	332	\$15.07	\$60,038.88
175W Mercury	1143	\$11.36	\$155,813.76
150W Sodium	3574	\$14.03	\$601,718.64
70W LED	143	\$23.08	\$39,605.28
110W LED	1	\$19.34	\$232.08
150W LED	389	\$21.25	\$99,195.00
210W LED	0	\$29.89	\$0.00
<b>TOTAL</b>	<b>6966</b>		

Rates above reflect GUC approved rates that went into effect July 1, 2016.

## High Pressure Sodium(HPS) vs LED



**Previous Upgrades:**

**2012 – 2014: Main Priority - CRIA HotSpot zones  
(Increase output of HPS)**

**2013 – Streetlight Ordinance revised to standardize with  
LED retrofits/installations**

**2014 – First LED installations in City**

**2014 – 2016: CRIA and Pedestrian Safety/Traffic Volume  
(Convert to LED)**

**PREVIOUS UPGRADES: (2012 – 2014) TO 250W HPS**

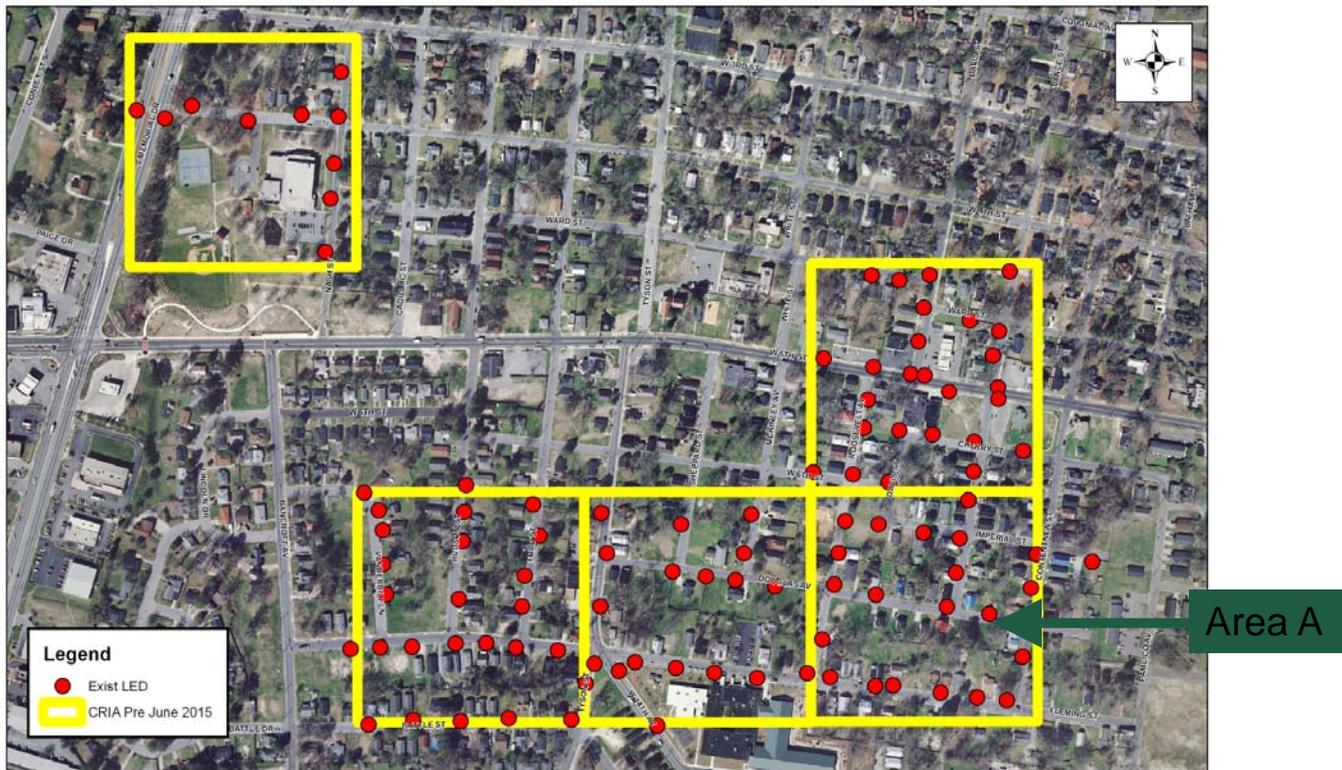
**CRIA, HotSpot and Other Lighting Upgrades**

<b>Date</b>	<b>Location</b>	<b>New</b>	<b>Upgrades</b>
2012	Hop Tyson Road Area		12
2013	Kristin & Peed Drive Areas	6	56
2013	Sedgefield/Concord Dr. Area	1	12
2013	Mosley Dr. Area	1	19
2013	Westpointe Area	2	48
2013	W. 5 <sup>th</sup> St. (Moye – Arlington)		7
2014	Greenfield Terrace		43
2014	Norris & Perkins Streets		5
		10	202
<b>Total 250W HPS (LED not yet available)</b>			<b>212</b>

## PREVIOUS UPGRADES: LED CONVERSIONS 2014 - 2016

Date	Location	New	Upgrades
2014	PP1 Area (West TRUNA)	5	30
2014	Merry Lane & Arlington	7	4
2015	TRUNA/Glen Arthur Area		155
2015	4th Street Grid		10
2015	West Greenville		85
2016	E 5th Street		43
2016	E 10th Street	2	29
Total Notable Additions/Conv.			370
Miscellaneous Conversions			163
<b>Total LED's Installed to Date</b>			<b>533</b>

## Upgrades in CRIA Locations - 2015



## PRE/POST W. GREENVILLE AREA A LED LIGHTING



## PRE/POST W. GREENVILLE AREA A LED LIGHTING

<b>LED Lighting Area A: Ward St to Battle St</b>					
<b>Time Period</b>	<b>A (1/1/15-6/30/15)</b>	<b>B (7/1/15-12/31/15)</b>	<b>C (1/1/16-6/30/16)</b>	<b>B to C % Change</b>	<b>A to C % Change</b>
<b>Violent Crimes</b>	<b>10</b>	<b>5</b>	<b>3</b>	<b>-40%</b>	<b>-70%</b>
<b>Property Crimes</b>	<b>10</b>	<b>6</b>	<b>4</b>	<b>-33%</b>	<b>-60%</b>
<b>Total Part 1</b>	<b>20</b>	<b>11</b>	<b>7</b>	<b>-36%</b>	<b>-65%</b>
<b>Shots Fired Calls</b>	<b>8</b>	<b>5</b>	<b>4</b>	<b>-20%</b>	<b>-50%</b>
<b>Suspicious Calls</b>	<b>146</b>	<b>75</b>	<b>59</b>	<b>-21%</b>	<b>-60%</b>

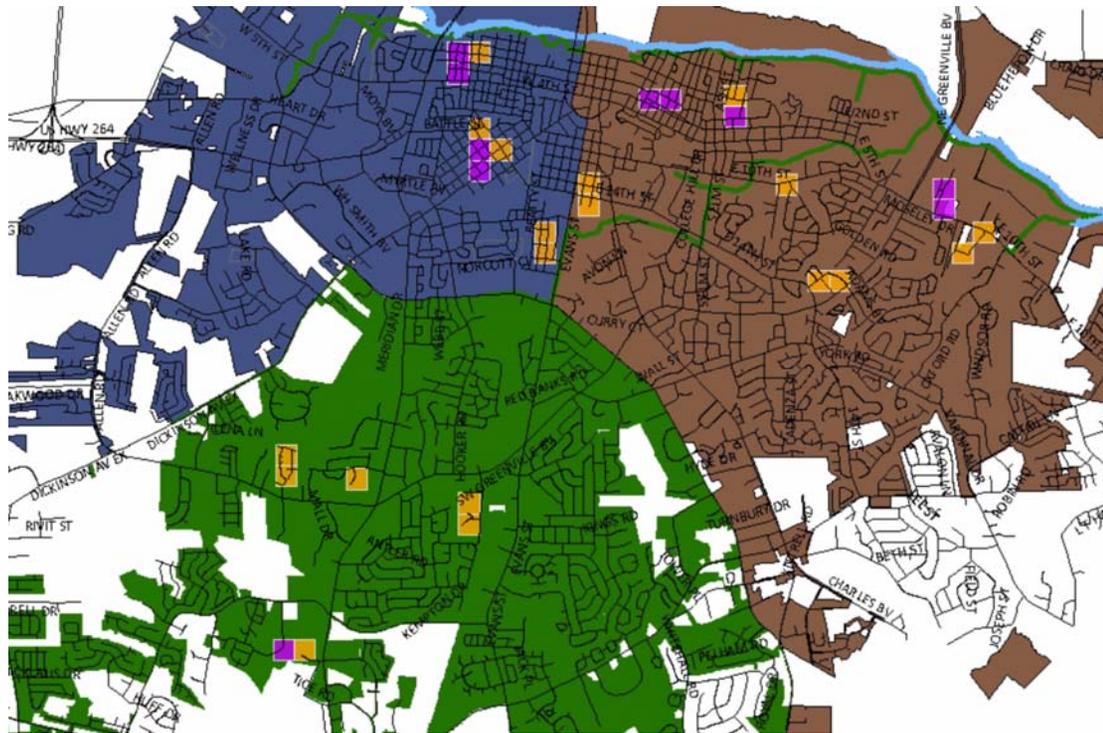
## EAST 5<sup>TH</sup> STREET/UNIVERSITY AREA LED INSTALLED 2015

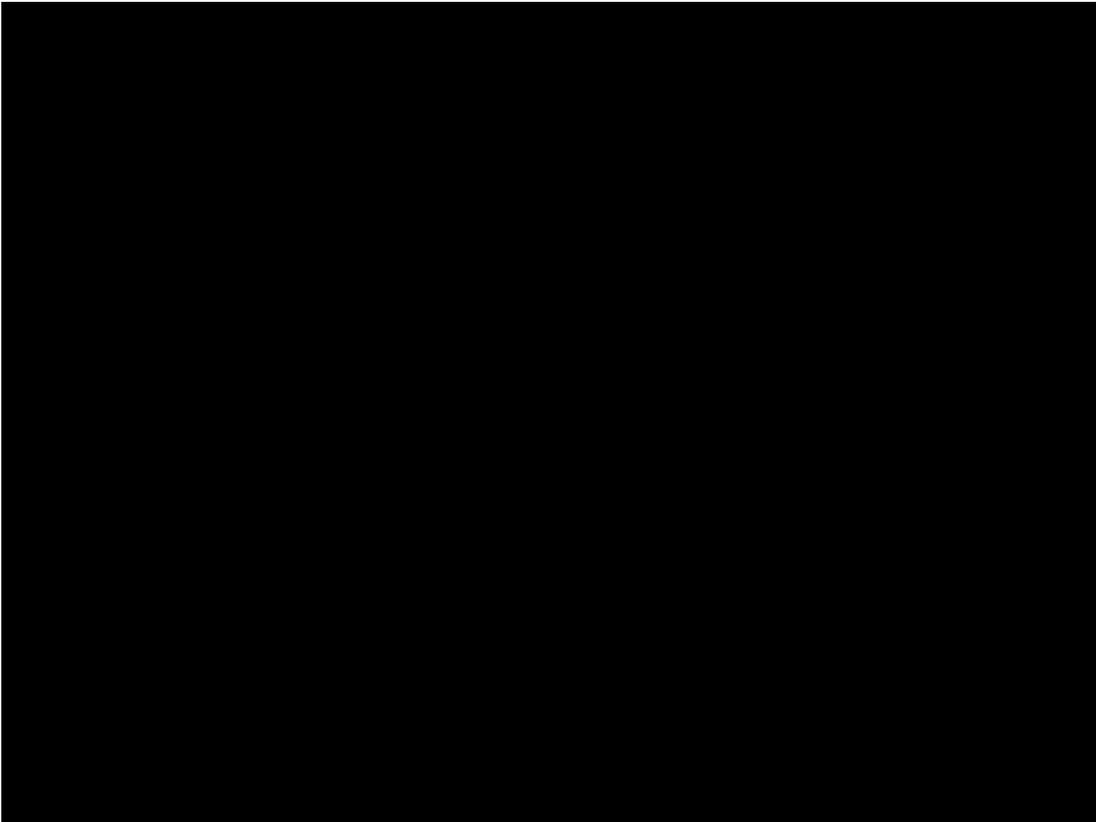


## PRE/POST EAST 5<sup>th</sup> ST. LED UPGRADE LIGHTING RESULTS

<b>E. 5<sup>TH</sup> ST. LED LIGHTING: READE CIR. TO S. ELM ST.</b>					
<b>Time Period</b>	<b>A (1/1/15- 6/30/15)</b>	<b>B (7/1/15- 12/31/15)</b>	<b>C (1/1/16- 6/30/16)</b>	<b>B to C % Change</b>	<b>A to C % Change</b>
<b>Violent Crimes</b>	2	3	1	-66%	-50%
<b>Property Crimes</b>	6	4	6	Up 2	0%
<b>Total Part 1</b>	8	7	7	0%	-13%
<b>Shots Fired Calls</b>	3	6	1	-83%	-66%
<b>Suspicious Calls</b>	10	24	16	-33%	60%

# New LED Conversions: July 2016 CRIA Locations



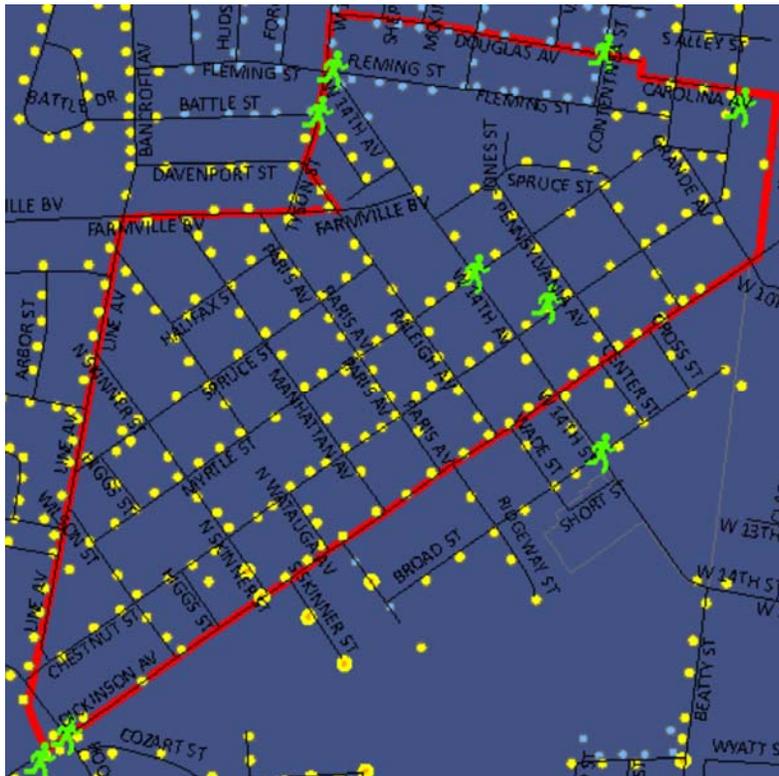


# HIGGS NEIGHBORHOOD

## HIGGS NEIGHBORHOOD

- **Main Crime Types** (Jan. - Jun. 2016):
  - Violent: Assaults and Robbery Property: Burglary
- **Main Calls for Service:**
  - Suspicious activity and Disturbances
- **Current Lighting:**
  - 2 Previous SV250 Upgrades
  - 29 Existing LEDs
  - 132 LED Upgrades
- **Pedestrian Crashes:**
  - 7 non-fatal (2013-2015)
- **Fatal Vehicle Crashes:** None

## HIGGS NEIGHBORHOOD



**Legend**

-  LED Upgrade
-  Existing LED
-  SV250 Previous Upgrade
-  Vehicle Crash Fatality
-  Pedestrian Fatality
-  Non-Fatal Pedestrian Crash

## WESTPOINTE NEIGHBORHOOD

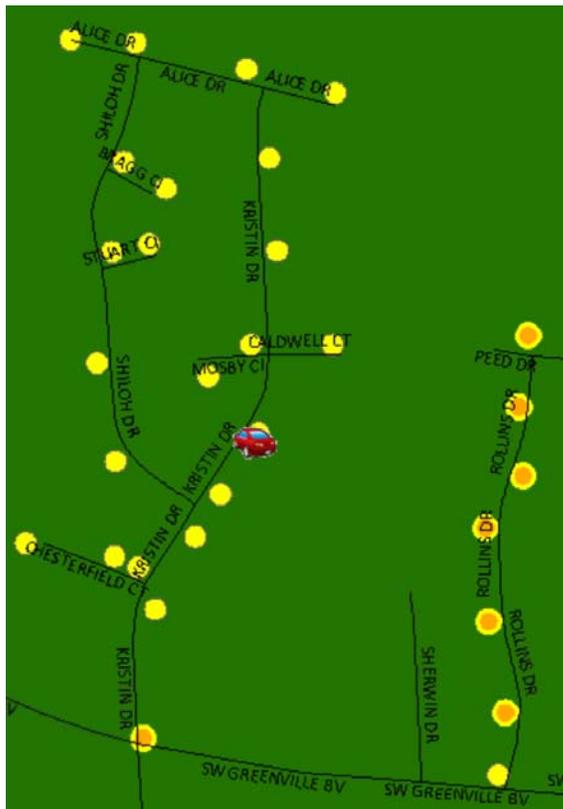
- **Main Crime Types Jan. – Jun. 2016:**
  - Property Crimes: Residential Burglary and Larceny
- **Main Calls for Service:**
  - Disturbances, Suspicious, and Domestic
- **Current Lighting:**
  - 47 Previous SV250 Upgrades
  - 107 LED Upgrades (Complete)
- **Pedestrian Crashes:**
  - 2 non-fatal (2013, 2015)
- **Fatal Vehicle Crashes:** None



## **KRISTIN DR. AREA**

- **Main Crime Types Jan.-Jun. 2016:**
  - Property: Residential Burglary
- **Main Calls for Service:**
  - Disturbances and Suspicious activity
- **Current Lighting:**
  - 7 Previous SV250 Upgrades
  - 23 LED Upgrades
- **Pedestrian Crashes:** None
- **Fatal Vehicle Crashes:** 1 (2011)

## KRISTIN DR. AREA



**Legend**

-  LED Upgrade
-  Existing LED
-  SV250 Previous Upgrade
-  Vehicle Crash Fatality
-  Pedestrian Fatality
-  Non-Fatal Pedestrian Crash

## RIVER BLUFF AREA

- **Main Crime Types** (Jan. – Jun. 2016):
  - Property: Residential Burglary and Larceny
- **Main Calls for Service:**
  - Disturbances, Suspicious activity, and Domestic
- **Current Lighting:**
  - 11 Previous SV250 Upgrades
  - 19 Existing LEDs
  - 12 LED Upgrades
- **Pedestrian Crashes:**
  - 1 fatality (2015)
  - 7 non-fatal (2013-2015)

## RIVER BLUFF AREA



### Legend

-  LED Upgrade
-  Existing LED
-  SV250 Previous Upgrade
-  Vehicle Crash Fatality
-  Pedestrian Fatality
-  Non-Fatal Pedestrian Crash

## LED CONVERSION - ONGOING

NEW LED STREET LIGHT CONVERSIONS	
Location	Upgrades
W. Greenville South of 10th St. Conn.	307
Westpointe Neighborhood (Completed)	107
Kristin Drive Area	64
W. Greenville North of 10th St. Conn.	366
Area East of SE Greenville Blvd	30
Stantonsburg Rd. - S. Mem. to Arlington Blvd.	12
<b>Total New LED Requests</b>	<b>858</b>

Upgrades will cause an **annual** increase of \$75k

## CITYWIDE LED UPGRADES



## **New Streetlight Installation:**

Typical Costs = \$1,000 - \$2,500 per installed streetlight (price varies based on available infrastructure)

100 new lights = \$100K - \$250K

Post Streetlight installation: Increased annual operational costs for 100 streetlights = \$25,500

## New Streetlight Installation - High Priority Roads Based on ADT & Accident Data:

Street	New Streetlights	ADT	Multiple Ped Accident	Unit Cost	Capital Cost	Annual Operating Cost
Stantonsburg – Memorial to Arlington	68	27,000	Y	\$2,200	\$102,000	\$17,340
Memorial Dr – Stantonsburg to Firetower	579	43,000	Y	\$1,966	\$1,138,560	\$147,645
Firetower at Charles to Portertown at 10 <sup>th</sup>	100	35,000	Y	\$1,035	\$103,500	\$25,500

Note: Firetower Rd expansion scheduled for 2020 (Charles to 10<sup>th</sup>)

## STANTONSBURG RD



## COSTS OF CONVERSION TO LED CITYWIDE

COST BASED UPON CURRENT GUC RATES (07/01/16)	
STREETLIGHT ANNUAL BUDGET	\$1,550,840
TOTAL NO. OF STREETLIGHTS	6,966
CURRENT LED FIXTURES	533
NET FIXTURES FOR CONVERSION	6,433
YEARLY INCREASE FOR TOTAL CONVERSION OF 6,433 FIXTURES	\$514,100

**Citywide Conversion of Streetlights from HPS to LED will increase Annual Streetlight Operating Costs by \$514,100**

Item 11:  
**Update on Intersection  
Pedestrian Safety Improvements**

# Overview

Summary of projects:

- Designed for pedestrian safety;
- Larger projects that have a pedestrian safety component.

# Previous Projects

Neighborhood Traffic Calming:

- Millbrook Street
- Kirkland Drive
- Kempton Drive
- Martinsborough Road

# Current Projects

10<sup>th</sup> Street Corridor Safety Improvements:

- Evans Street to Oxford Road
- 3-color traffic signal at Silver Maple (installed 7/8/16)
- 2 Rectangular Rapid Flashing Beacons (RRFB)
- Upgraded sidewalk and lighting
- Extended center raised median

# Current Projects (Cont.)

Greenville Intersection Pedestrian Improvements:

- 15 signalized intersections
- Upgrade or install pedestrian signal hardware
- Upgrade or install delineated crosswalks
- Upgrade or install sidewalks at targeted crossings

## Current Projects (Cont.)

Green Mill Run Greenway:

- Phase 2 – 1.2 mile multi-use facility
- Charles Blvd. to Evans Park (85% complete)

Crosswalk Investigations:

- Cotanche Street at 7<sup>th</sup> & 9<sup>th</sup> Streets
- Charles Boulevard at Ficklen & ECU track

## Current Projects (Cont.)

Safe Routes to Schools:

- East side of Memorial (Millbrook to Arlington)
- East side of Skinner to north side of Norris
- North side of 5<sup>th</sup> (Green Mill Run to Beech)

Status: Expected Bid Advertisement is Feb. 2017

# Current Projects (Cont.)

## Miscellaneous Accident Analyses:

- Staff reviews pedestrian related accidents
- Considers locations and trends
- Staff reviews crash statistics
- Currently calculating accident rates in high traffic corridors (such as Stantonsburg Rd. & Memorial Dr.)

## Current Projects (Cont.)

Sidewalk Installation (Transportation Bond):

- Installation of sidewalk (\$1.4 Million)

# Potential Projects

ADA Pedestrian Improvements Project:

- Potential project partnering with NCDOT
- Funded by Transportation Alternatives Program
- Targets 12 (State-owned) intersections within City Limits

# Potential Projects (Cont.)

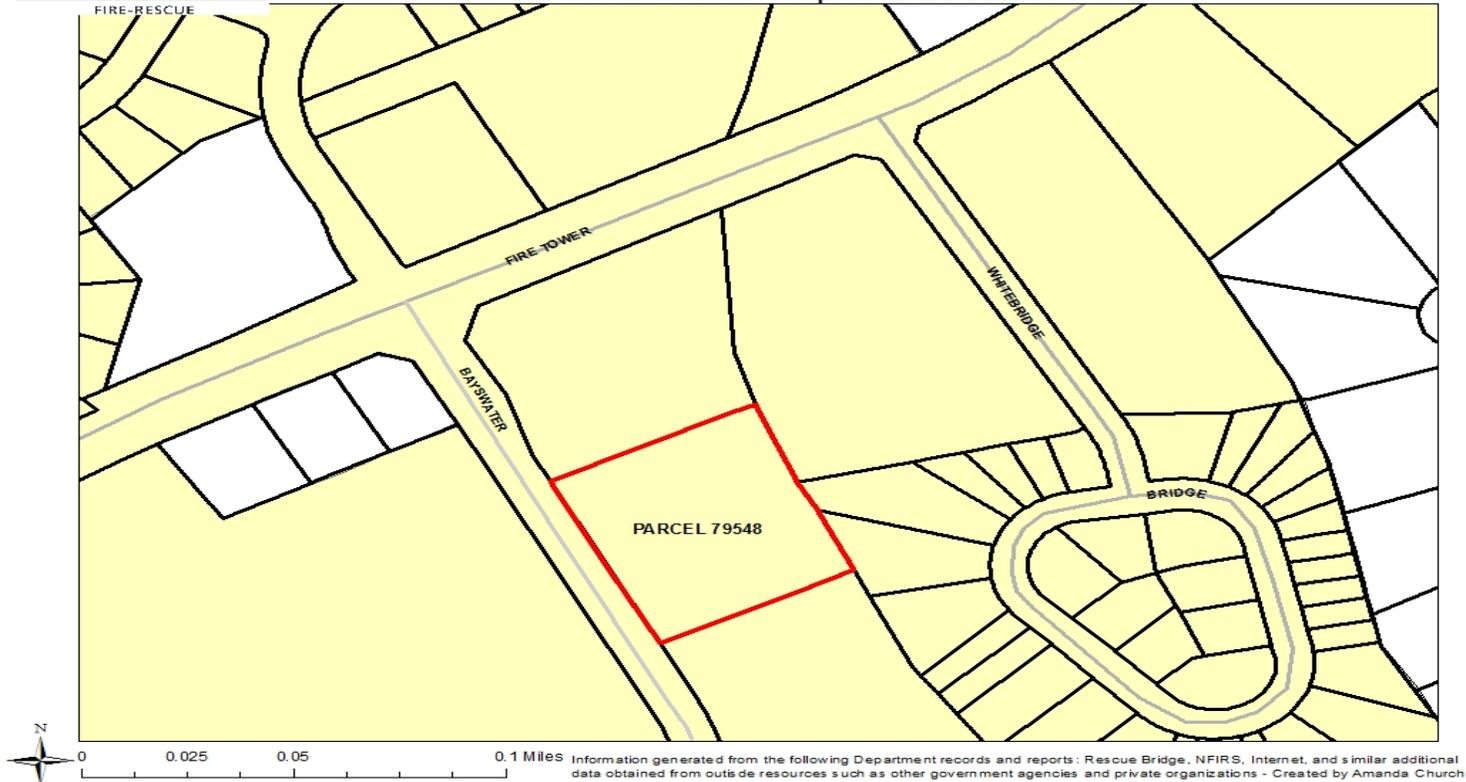
Neighborhood Traffic Calming:

- Jefferson Drive, White Hollow Drive
- Bent Creek Drive, St. Andrews Drive
- Chesapeake Place, Camille Drive
- Emerson Road, Wesley Road

Item 16:  
**Update on Fire Station in Fire  
Tower Road Area**

# Proposed Fire-Rescue Station 7

### Greenville Fire-Rescue Department Station Seven Proposed Location



<b>Future Fire Station Location January 1 to July 31, 2016</b>					
	<b>2014</b>	<b>2015</b>	<b>% Change</b>	<b>2016</b>	<b>3 Year % Change</b>
<b>January</b>	60	58	-3%	65	8%
<b>February</b>	41	58	41%	69	68%
<b>March</b>	44	47	7%	65	48%
<b>April</b>	59	66	12%	74	25%
<b>May</b>	52	73	40%	75	44%
<b>June</b>	56	78	39%	53	-5%
<b>July</b>	58	75	29%	91	57%
<b>Total</b>	<b>370</b>	<b>455</b>	<b>23%</b>	<b>492</b>	<b>33%</b>

Why is this important?

## **Option 1:** Constuction of complete Fire-Rescue station

- Estimated cost of 2.5-3 million
- Public/Private partnerships could be explored

## **Option 2:** Constuction of a partial Fire-Rescue station

- Estimated cost of 1.5- 2 Million
- Would initially consist of apparatus bay with some form of day room attached
- Additional site work would be needed to facilitate future expansion

## Employee costs

Fully staffed single apparatus station

- Will require six additional employees to fully staff
- \$59,422 per employee salary and benefits
- Approximate recurrent cost of \$356,532

## Future Deployment

- Comprehensive analysis to be completed
- Presentation of information and in depth discussion planned for City Council Planning Session