

1 - Work Session Agenda

Documents:

[1 - AGENDA.PDF](#)

2 - South Downtown Infrastructure Study

Documents:

[2 - SOUTH DOWNTOWN INFRASTRUCTURE STUDY.PDF](#)



CITY COUNCIL OF THE CITY OF GREENVILLE WORK SESSION MEETING

Monday, February 14, 2022 - 4:30 p.m.

Meeting Location: Greenville Convention Center, 1 Exposition Drive

The city of Greenville seeks input from citizens while adhering to public health and safety guidelines. All attendees at the location may be subject to a temperature screening. Masks are currently required in all city buildings and at city meetings, regardless of vaccination status.

Citizens may access the meeting at the following web address:

<https://www.greenvillesc.gov/1694/Online-Meetings>

CITY COUNCIL: Mayor Knox White; Councilmember Wil Brasington; Councilmember John DeWorken, Councilmember Dorothy Dowe, Councilmember Lillian Flemming; Councilmember Ken Gibson; Councilmember Russell Stall

CITY STAFF: City Manager John McDonough; Assistant City Attorney Leigh Paoletti; City Clerk Camilla G. Pitman

AGENDA

- | | | |
|-----------|--|------------------|
| 1. | Call to Order | 4:30 p.m. |
| 2. | South Downtown Infrastructure Study
<i>(Presented by Public Works Director Clint Link and
HDR Project Manager Graham Malone)</i> | 4:30 p.m. |
| 3. | Adjourn | 5:15 p.m. |



South Downtown Master Plan

Traffic and Infrastructure Assessment

Greenville City Council Briefing

February 14, 2022 | 4:30 p.m.

An aerial photograph of a city, likely Knoxville, Tennessee, showing a mix of urban development and green spaces. In the foreground, there are several large, modern buildings, including a prominent circular structure. A river flows through the city, and a bridge is visible. In the background, a range of mountains is visible under a clear blue sky with some light clouds.

Introduction

Graham Malone, P.E.

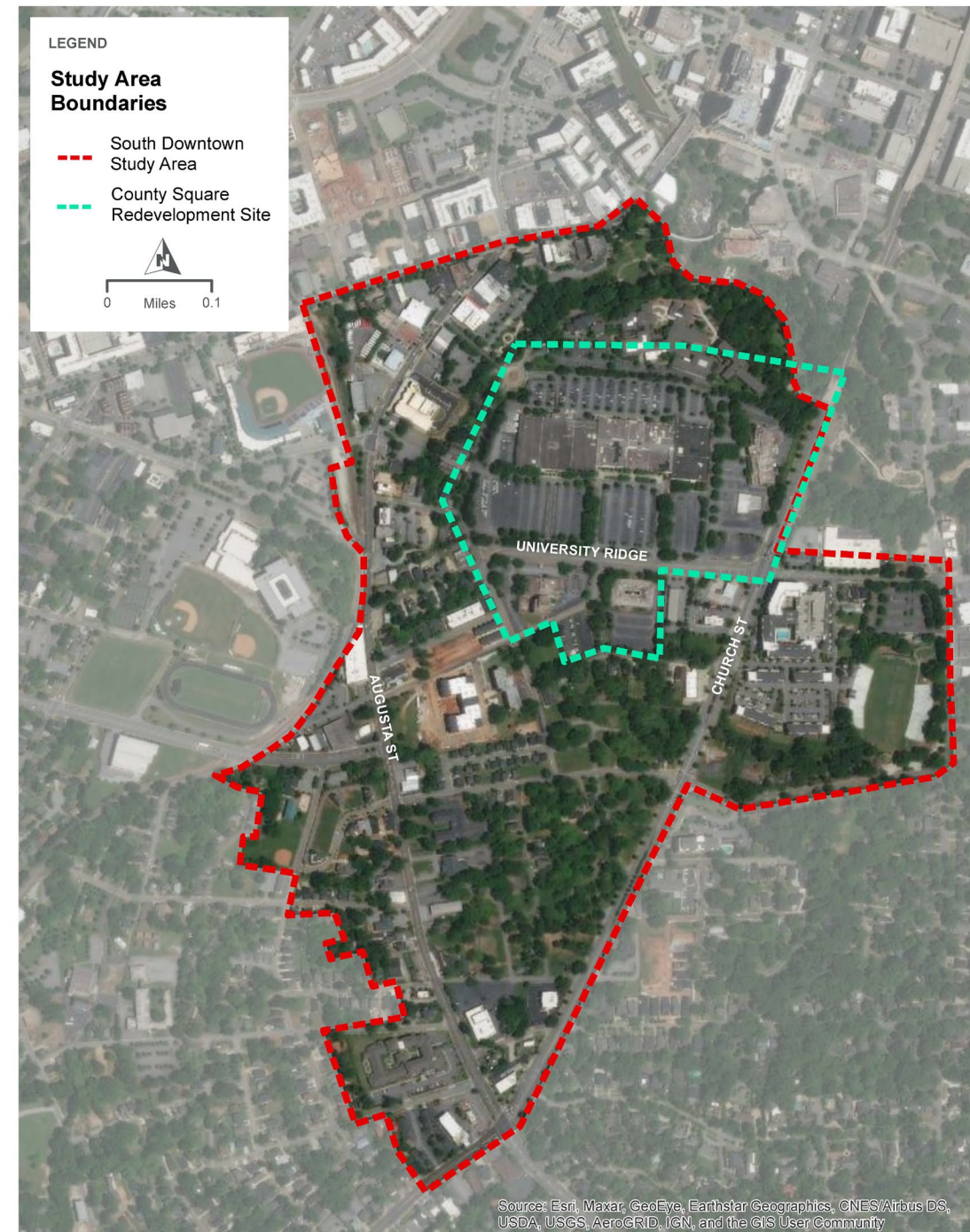
HDR Project Manager

Email: Graham.Malone@hdrinc.com

Phone: 843-414-3749

Meeting Topics

- Review of the Assessment Background and Scope
- Stakeholder Engagement Summary
- Roadway, Intersection, and Trail Recommendations
- Water/Wastewater Recommendations
- Stormwater Recommendations



Background

South Downtown Small Area Plan Objectives

- Integrate new Development and Infrastructure
- Focus on Neighborhood Access
- Increase Affordable Housing in Downtown
- Bike and Pedestrian Connections



Infrastructure Assessment Tasks

- Conduct Traffic Analysis with Build-out volumes
- Validate and incorporate recommended roadway treatments from Small Area Plan
- Review water and wastewater systems for existing or future capacity deficiencies
- Review stormwater system for existing or future capacity deficiencies
- Engage with community stakeholders

An aerial photograph of a city, likely Knoxville, Tennessee, featuring a river (the Tennessee River) winding through the urban landscape. The city is densely packed with various buildings, including modern high-rises and older brick structures. In the background, a range of mountains is visible under a clear blue sky. The entire image is overlaid with a semi-transparent teal filter.

Stakeholder/Community Engagement

Engagement Timeline

- May 17, 2021 – 1st Stakeholder Meeting
- Late Summer into Fall – Various Stakeholder coordination
- December 14, 2021 – 2nd Stakeholder Meeting

May

STAKEHOLDER MEETING #1

Aug

COUNTY SQUARE DEVELOPMENT TEAM

Sep

GHA & STONE PROPERTIES

Oct

COUNTY SQUARE DEVELOPMENT TEAM & GHA

Dec

STONE PROPERTIES

Dec

STAKEHOLDER MEETING #2

2nd Stakeholder Meeting

- Approximately 19 attendees
- Presentation of Draft Recommendations
- Q/A Session
- Board Stations
- Comment Cards



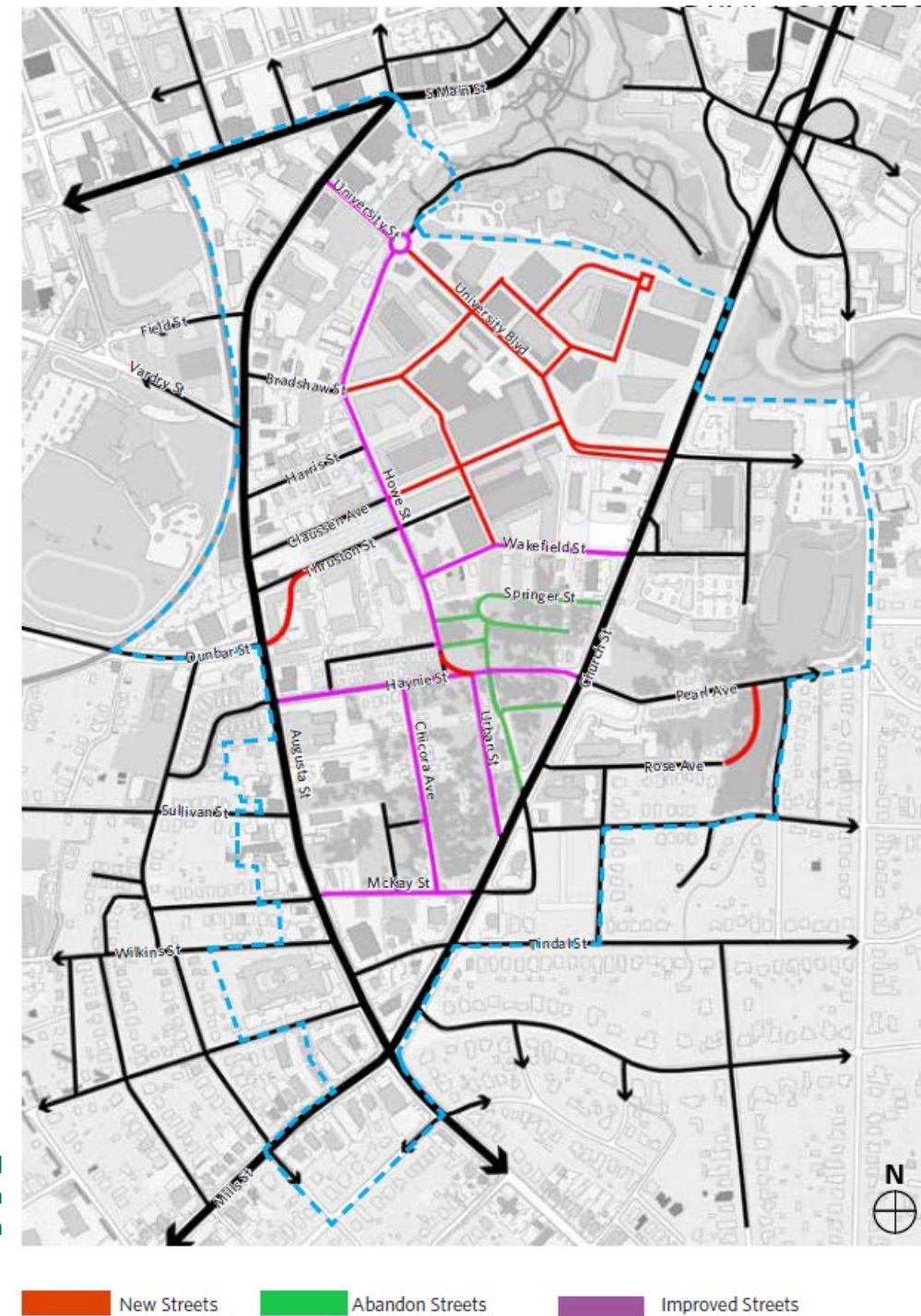


Roadway, Intersection, and Trail Recommendations

Roadway Assessment

- Used UDA's roadway plan and cross sections as a starting point
- Conducted traffic analysis to identify intersection projects
- Looked for opportunities to construct trails or improve stormwater system with parallel roadway projects

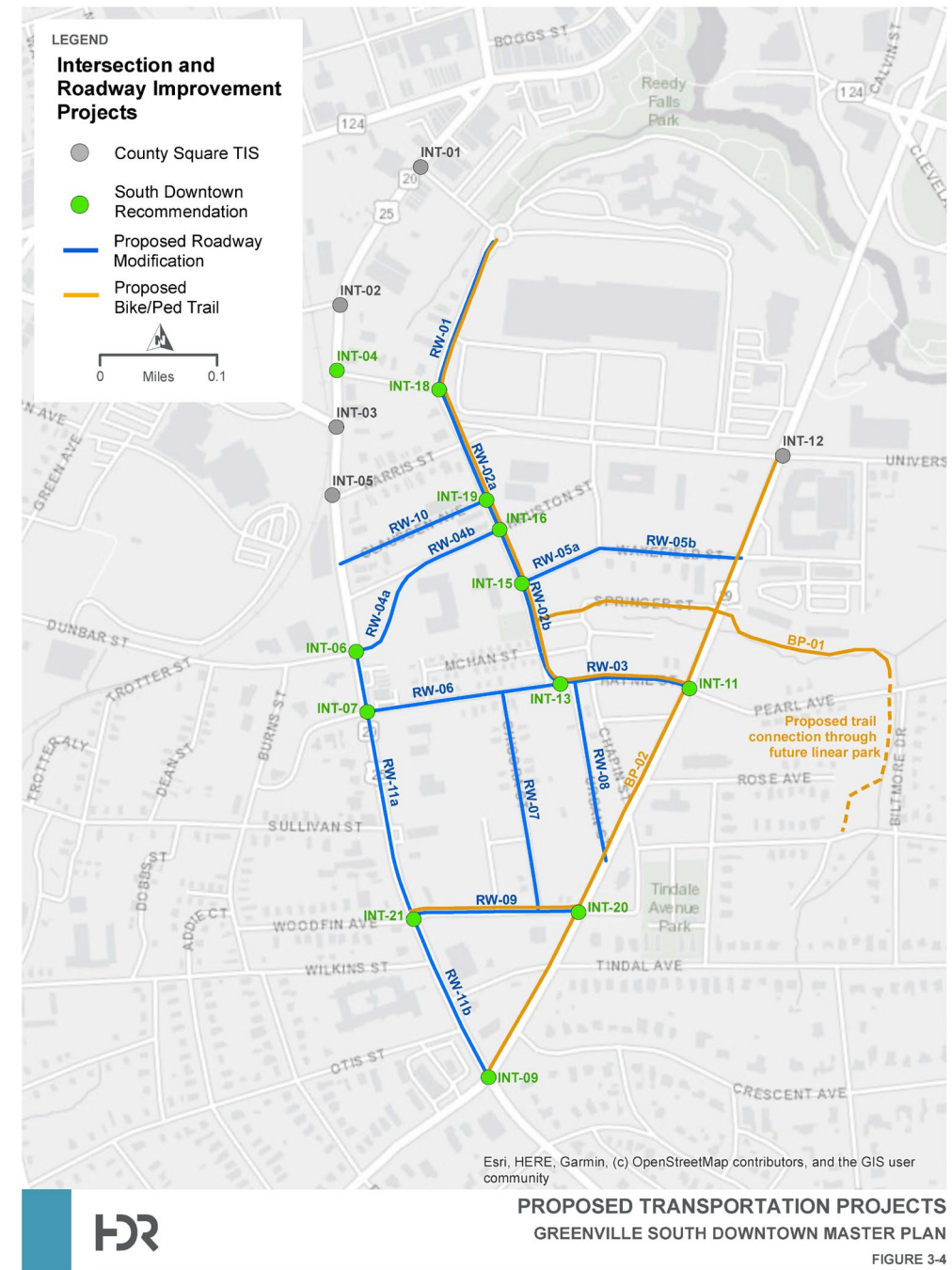
Figure produced by UDA and taken from the South Downtown Small Area Plan



Roadway, Intersection, and Pedestrian Recommendations

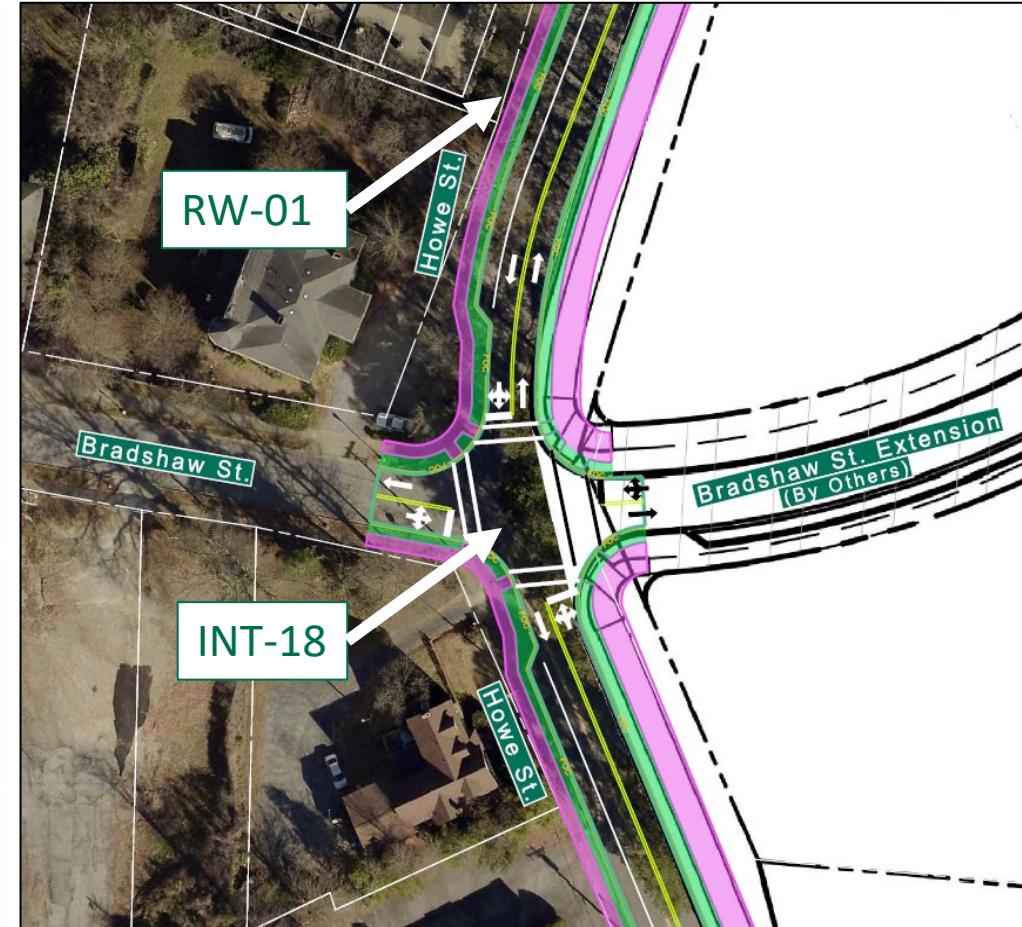
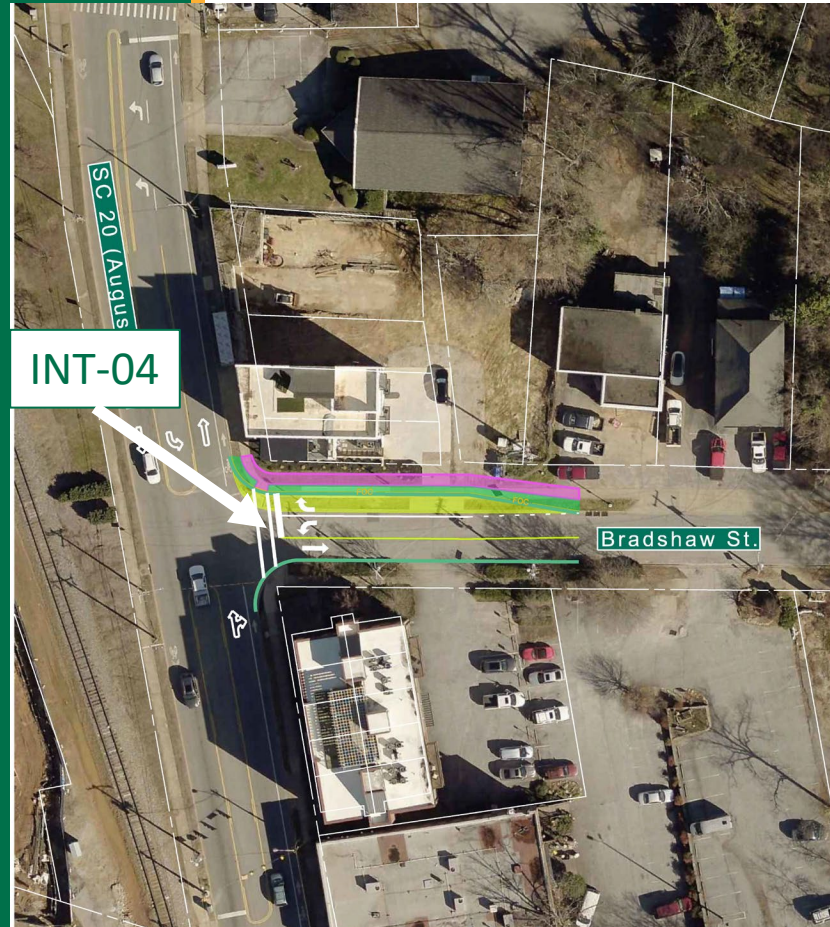
- 17 intersection projects
- 11 roadway + sidewalk projects
- 2 trail projects

*Note: map refers to Tindal Avenue Park, which is no longer present



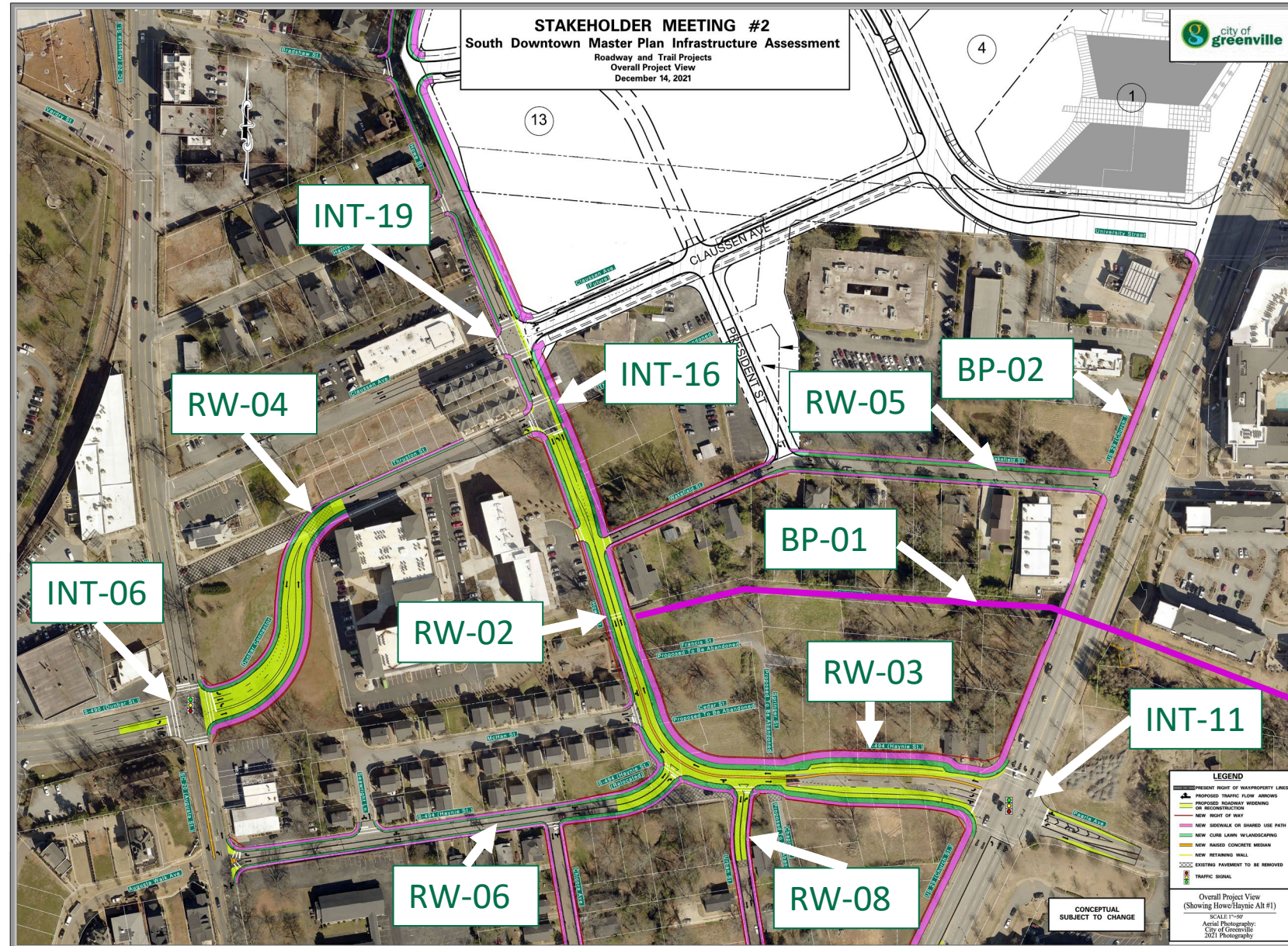
Roadway, Intersection, and Pedestrian Recommendations

- Bradshaw St
- Howe St North



Roadway, Intersection, and Pedestrian Recommendations

- Road network shown for County Square site based on October 2021 layout
- Primary access routes to/from County Square are University Ridge, Claussen Street and Bradshaw Street
- Proposed Dunbar Connector provides the preferred east-west connection across South Downtown
- Proposed path connections from County Square and Falls Park along Howe Street and Church Street





Dunbar St/Augusta St to Church St Connection

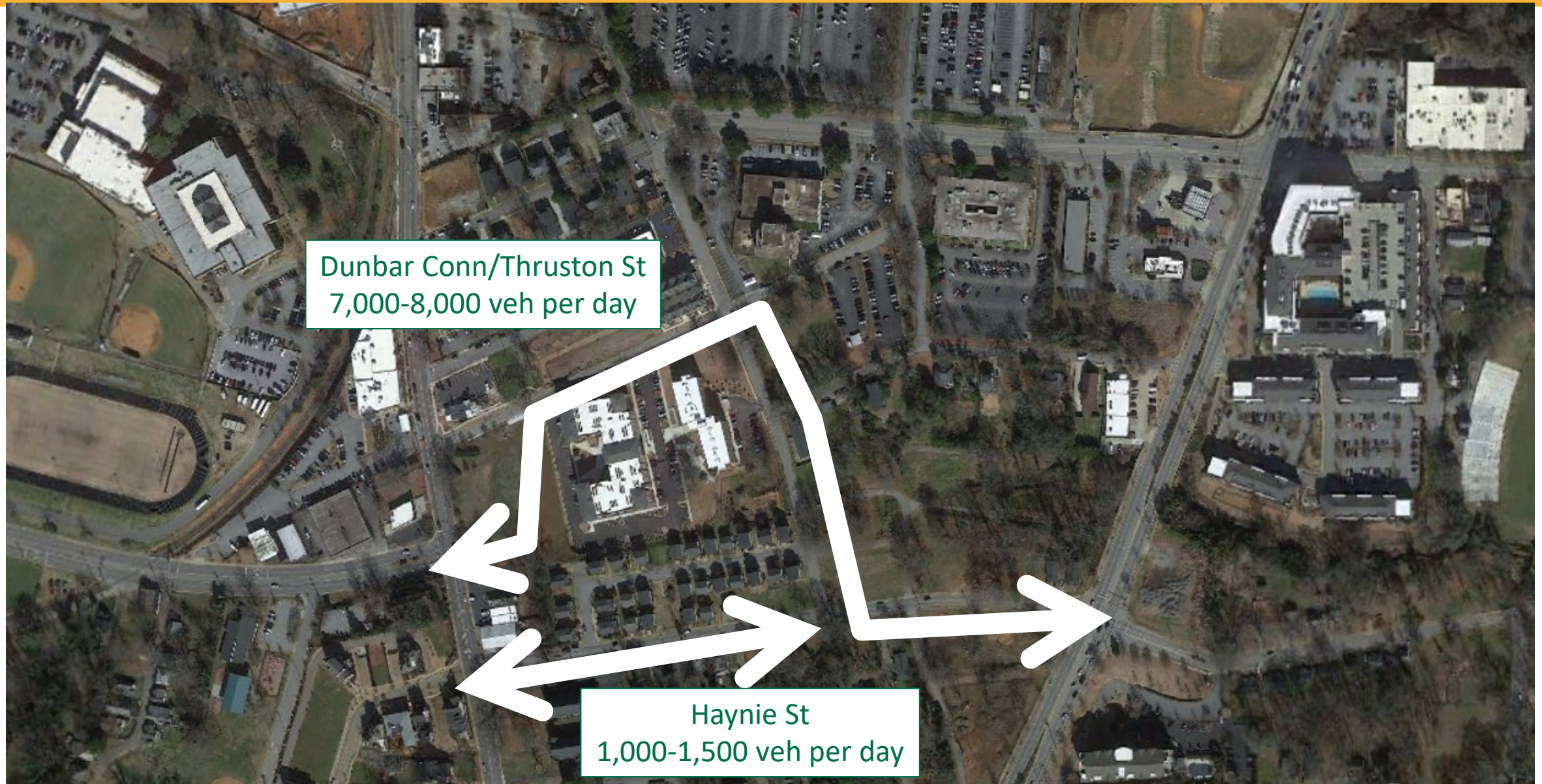
- Note that this concept is in planning stages and could vary as design progresses
- City, County, and various stakeholders are still coordinating, and concept is subject to change

Haynie Street 2019 Two-Way Traffic Volume



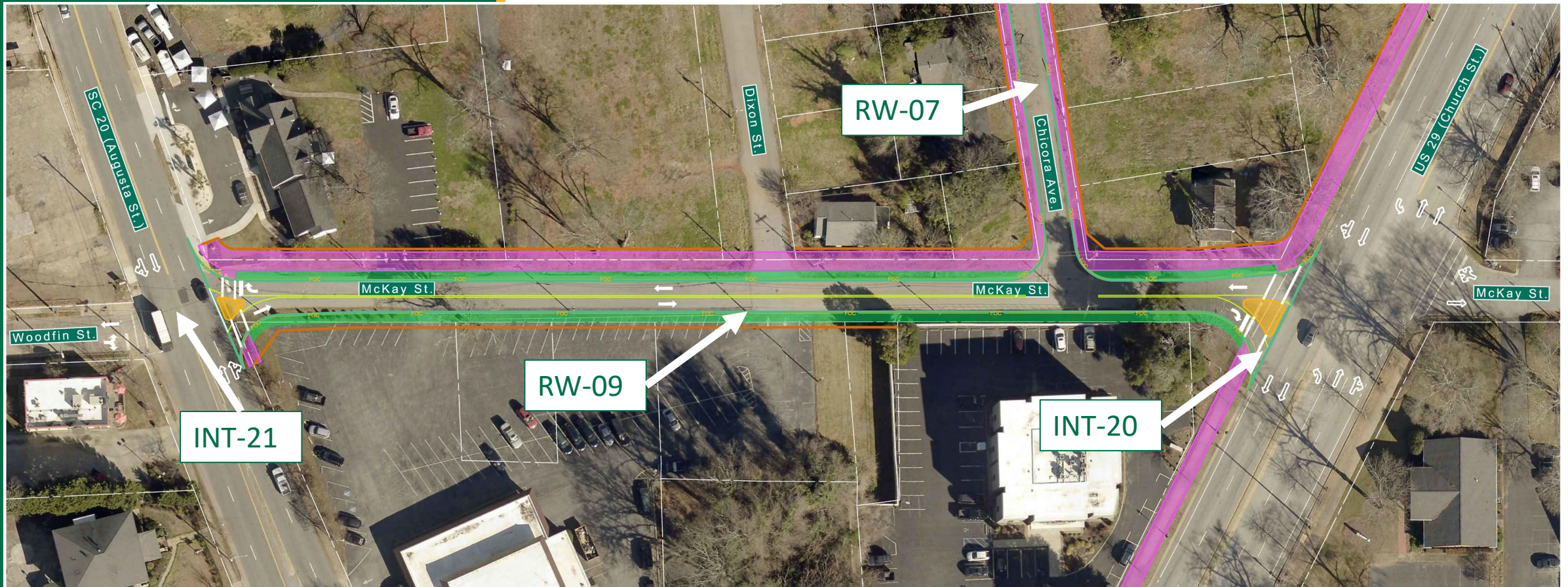
Haynie Street

2033 Traffic Volume Projections at Build Out



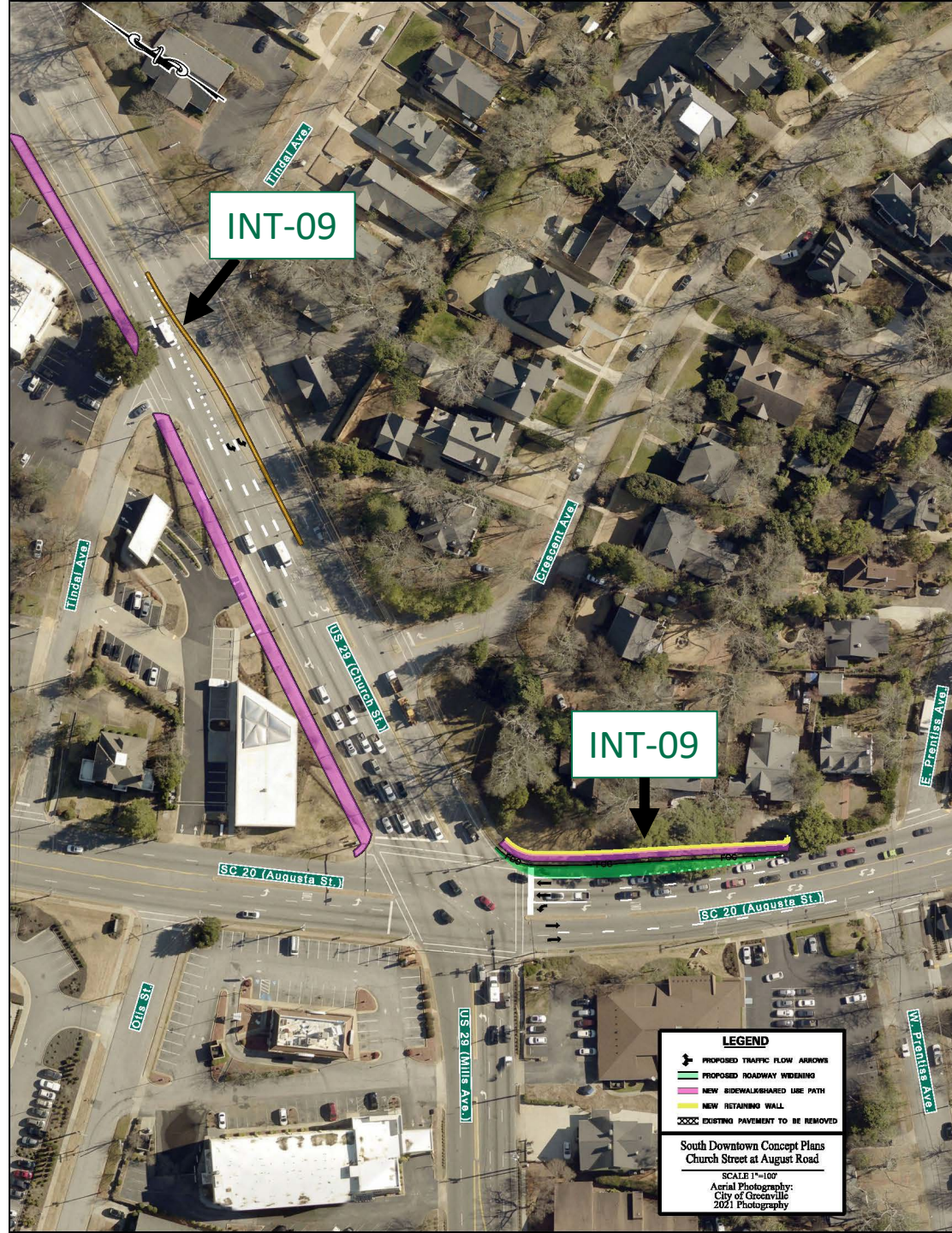
Roadway, Intersection, and Pedestrian Recommendations

- McKay St
- Chicora Ave



Church St at Augusta St (INT-09)

- Implement lengthening of dual SBL turn lanes
- Construct 10-12' shared-use path on west side of Church St
- Construct 100' Northwestbound right turn lane with retaining wall





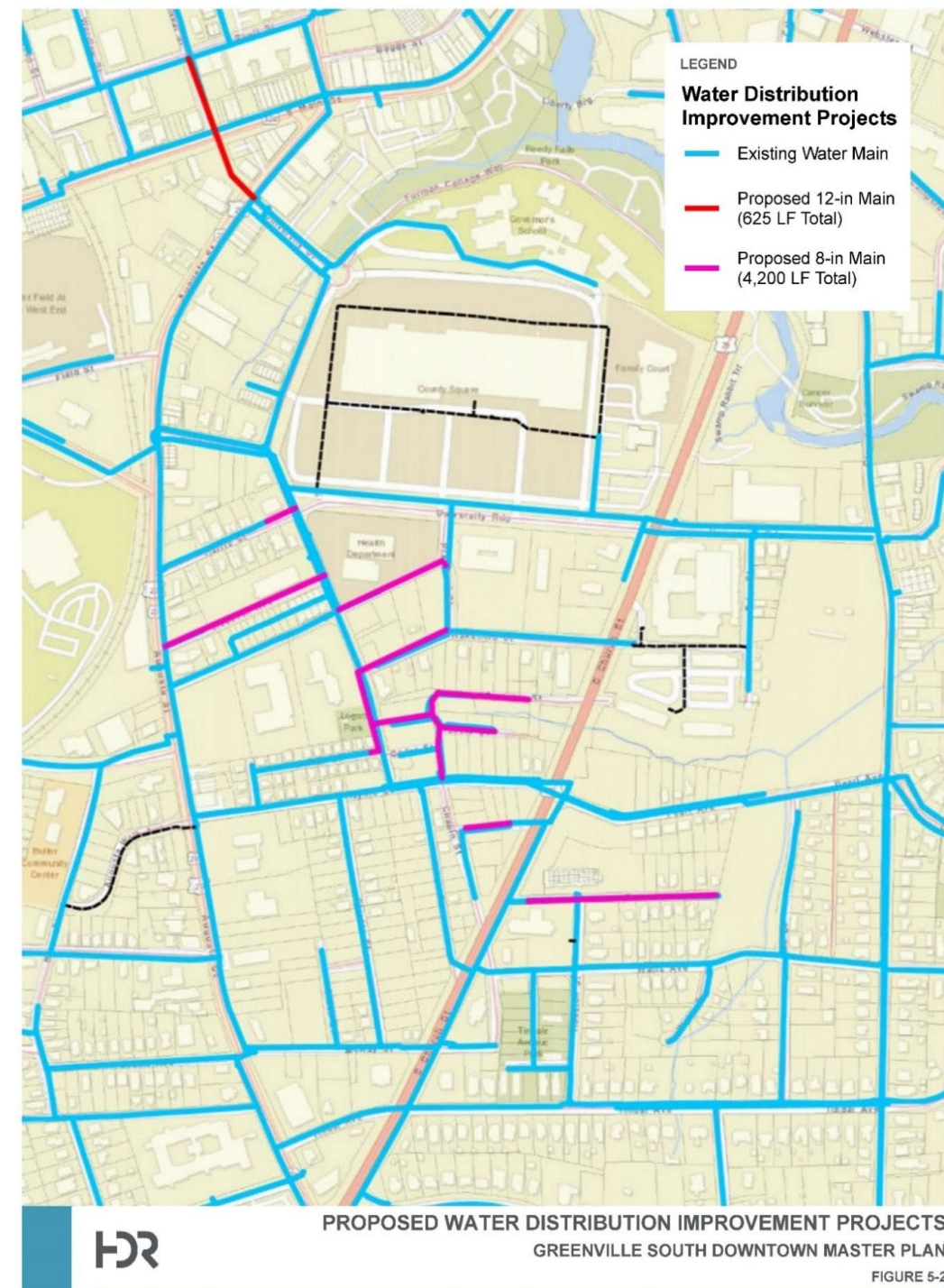
Water/Wastewater Recommendations

Potable Water System

- Modeled in partnership with Greenville Water
- Recommendations are conceptual and may be applied differently from this modeling exercise as development requests are received

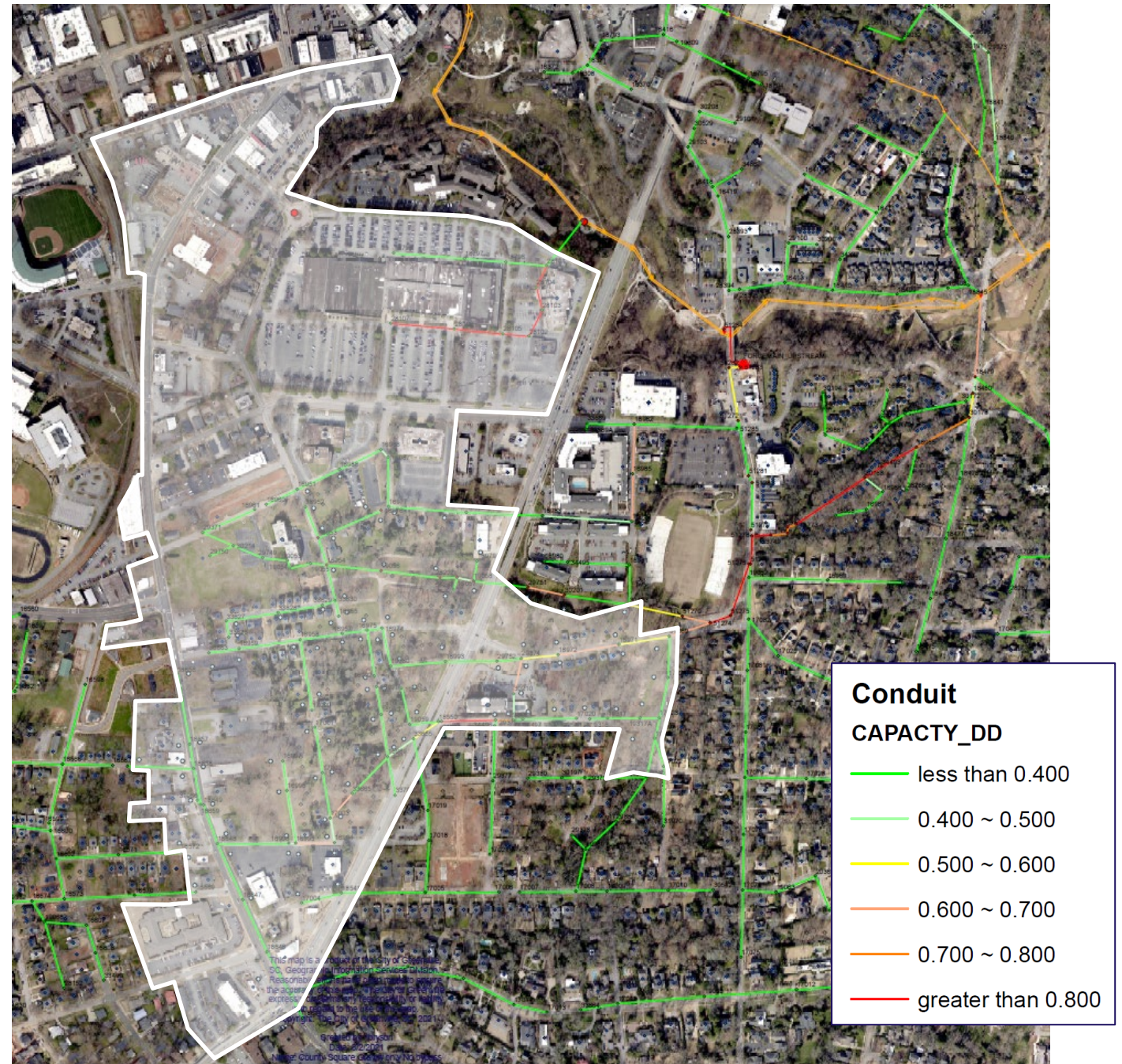
*Note: map refers to Tindal Avenue Park, which is no longer present

Project	Description
Small diameter water main replacements and extensions	Approximately 4,200 LF total of new 8-inch ductile iron water line to create localized loops, provide redundancy, improve pressures and fire flows, and replace existing 6-inch lines with the current 8-inch standard where applicable.
Rhett to Augusta water main extension	Approximately 625 LF total of new 12-inch ductile iron water line between the existing 16-inch main on Rhett Street to Augusta Street at northwest corner of the County Square Redevelopment area.



Sanitary Sewer Collection System Improvements

- Minimal sewer deficiencies within the project area – generally along the Pearl Avenue corridor
- Downstream deficiencies east of project area - where collection system outfalls to the north via Cleveland Street and McDaniel Avenue
- Additional study is required to identify a preferred solution.



Sanitary Sewer Collection System Scenarios

- Several scenarios are available to address capacity deficiencies
- #1: Replace and upsize system along Pearl Ave, through Knoxbury Terrace area, and across McDaniel St Bridge
- #2: New pump station with force main along Church St to County Square system
- #3: Expansion of existing Cleveland St PS and upstream system
- #4: New pump station in the vicinity of McDaniel St bridge to force flow into ReWa interceptor
- #5: A combination of various scenarios

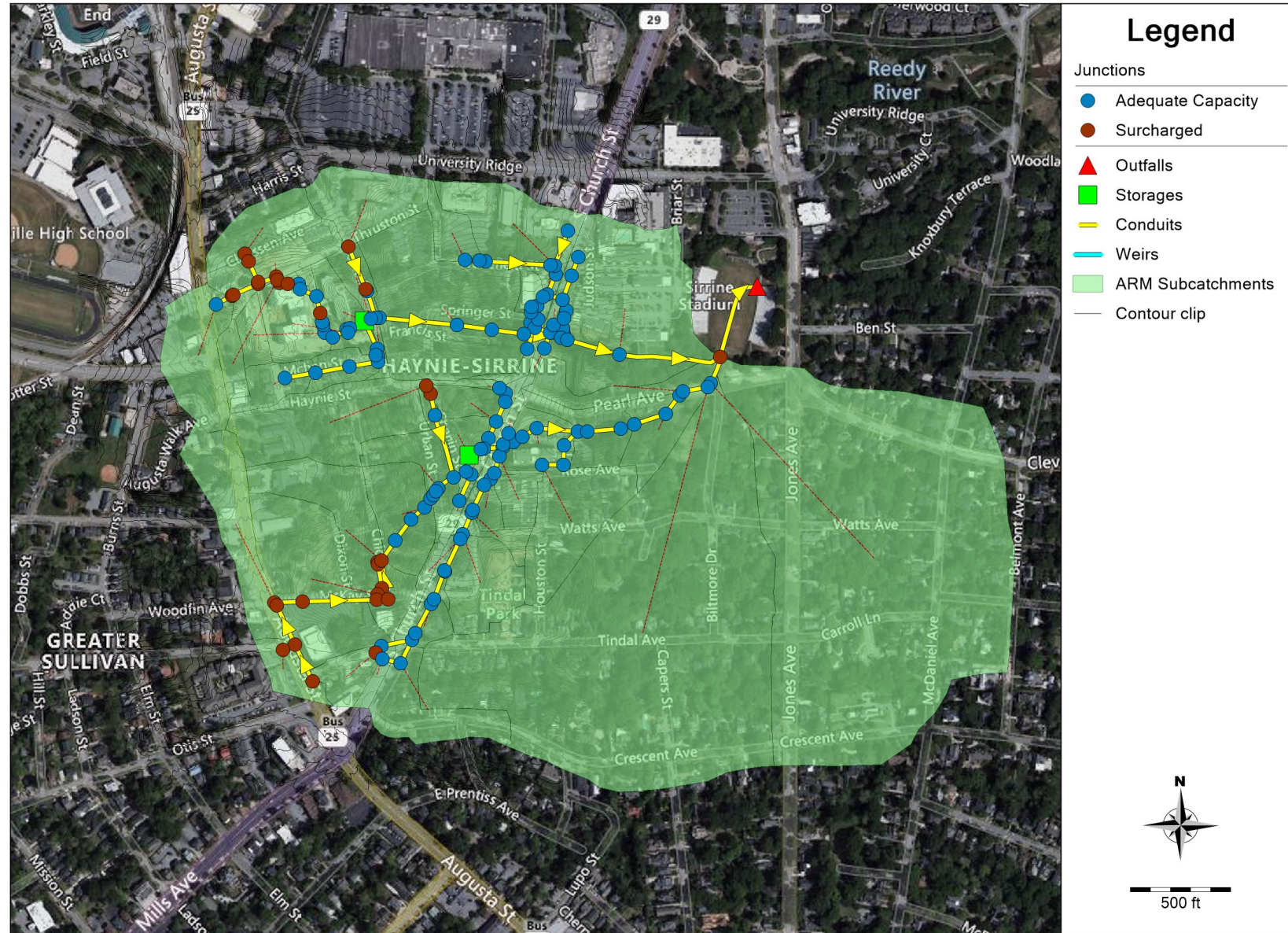


An aerial photograph of a city, likely Knoxville, Tennessee, featuring a river (the Tennessee River) winding through the urban landscape. The city is densely packed with various buildings, including modern high-rises and older brick structures. In the background, a range of mountains is visible under a clear blue sky with some light clouds. The entire image has a semi-transparent teal overlay.

Stormwater Recommendations

Stormwater Collection and Conveyance Improvements

- Most undersized pipes are within the upstream limits of the storm drainage system and roadway projects may overlap
- Several areas west of Church St are low and may retain runoff
 - Management of these areas will be needed to avoid increasing runoff rates
- Pipes can be upsized without adversely impacting the downstream system (i.e., Sirrine Stadium)

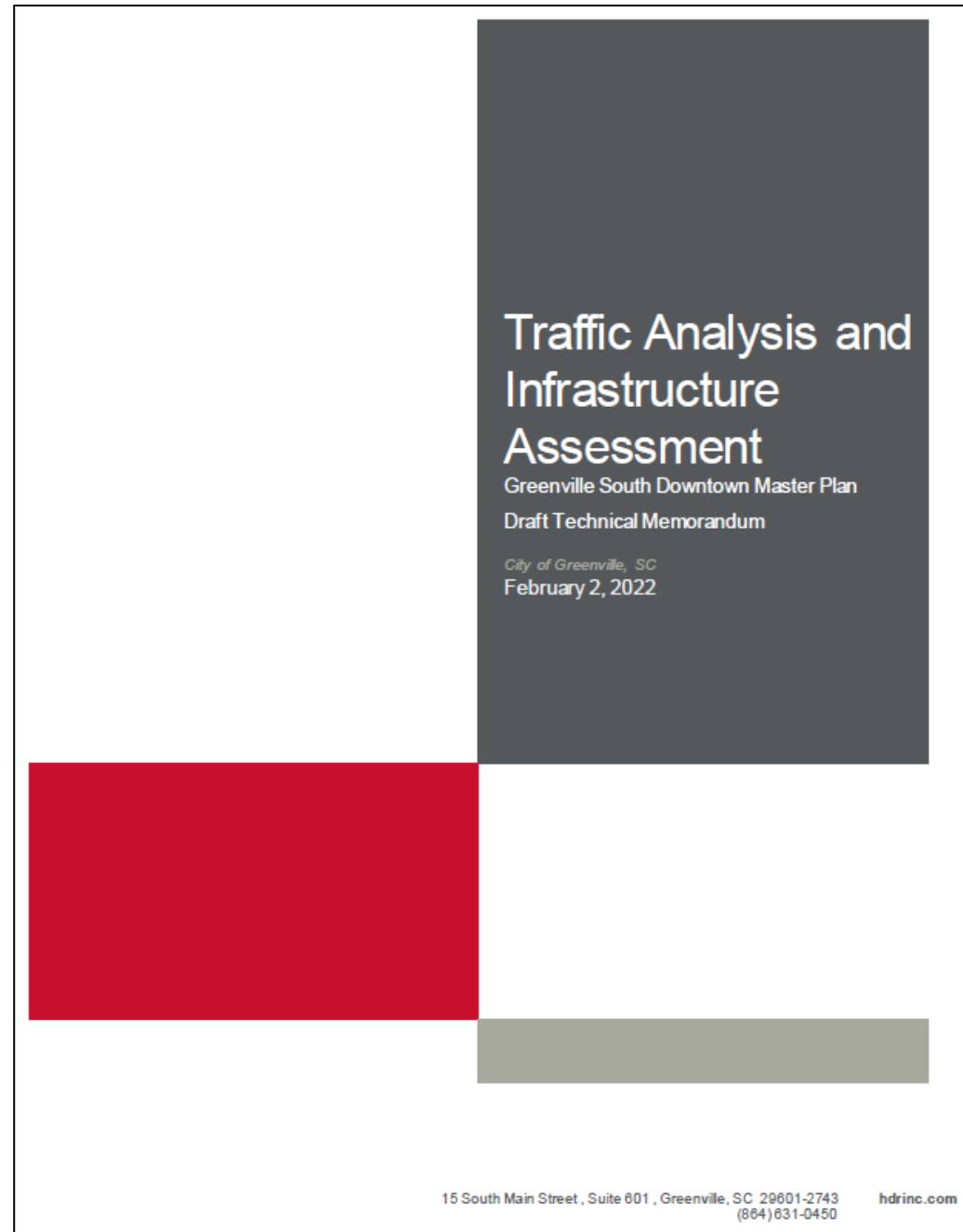


Next Steps

An aerial photograph of a city, likely Nashville, Tennessee, featuring a river (the Cumberland River) winding through the urban landscape. The city is densely packed with various buildings, including modern high-rises and older brick structures. In the background, a range of mountains is visible under a clear blue sky. The text "Next Steps" is overlaid in a large, white, sans-serif font on the left side of the image.

Next Steps

- Finalize Planning-Level Cost Estimates
- Finalize the Traffic Analysis and Infrastructure Assessment Report
- Formally adopt the South Downtown Small Area Plan



Questions and Comments

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