

**RESOLUTION NO. 2014-50**

**A RESOLUTION TO APPROVE THE PRELIMINARY DESIGN OF THE 100-BLOCK BATTLE AVENUE DRAINAGE IMPROVEMENTS PROJECT AND AUTHORIZE STAFF TO COMPLETE RIGHT-OF-WAY ACQUISITION, FINAL DESIGN AND CONSTRUCTION**

**WHEREAS**, on July 24, 2012, the Board of Mayor and Aldermen (BOMA) approved a professional services agreement with Neel-Schaffer, Inc. (COF Contract 2012-0114) for the Battle Avenue Drainage Improvements Project; and

**WHEREAS**, the original scope of the Battle Avenue Drainage Improvements Project was to study the localized flooding impacts for two different drainage basins, near the 100 and 400 blocks of Battle Avenue; and

**WHEREAS**, upon completion of this study, the 100 block of Battle Avenue was separated into its own drainage improvements project to help control the flooding impacts to the area; and

**WHEREAS**, on November 26, 2013, the BOMA formally approved a professional services agreement with Neel-Schaffer, Inc. (COF Contract 2013-0180) for the 100-Block Battle Avenue Drainage Improvements Design; and

**WHEREAS**, the improvements to the 100 block of Battle Avenue include creating a City-owned and-maintained regional detention pond located between 107 Battle Avenue and 101 Fairground Street, a stormwater sewer system extending from across Battle Avenue at 114 Battle Avenue to the rears of 113 and 115 Battle Avenue, re-grading the City owned alley located between Battle Avenue and Fairground Street, and re-grading the rearmost properties located at 109, 111, 113, and 115 Battle Avenue; and

**WHEREAS**, the creation of a City owned regional detention pond will include the purchase and expansion of the existing privately owned detention pond located at 110 Fairground Street and require the purchase of the rearmost property located at 107 Battle Avenue; and

**WHEREAS**, the City owned regional detention pond will include a design for a 100-year storm event, a new pump system, an expanded pond depth of 15'-17' deep, "decorative" protection fencing and landscaping to reduce the visual impact to the area, and the re-routing of the detention pond discharge directly to an existing stormwater sewer system in Fairground Street and Columbia Avenue; and

**WHEREAS**, drainage easements prohibiting the build out or re-grading will be placed upon the rear most areas on the properties located at 109, 111, 113, and 115 Battle Avenue to protect the integrity of the 100-year drainage improvements design; and

**WHEREAS**, the Capital Investment Committee approved (4-0) moving forward with the 100-Block Battle Avenue Design per the design presentation on May 28, 2014, and detailed above; and

**WHEREAS**, on August 8, 2014, a neighborhood survey letter and questionnaire was sent out to gather resident and property owner input for the project; and

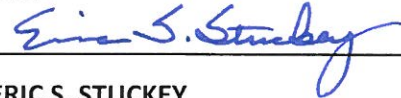
**WHEREAS**, the survey letter and questionnaire responses showed overall positive feedback for the project, with eleven (11) residents FOR the project, one (1) resident POSSIBLY FOR the project, and one (1) resident AGAINST the project; and

**WHEREAS**, the BOMA believes it is in the best interest of the citizens of the City of Franklin to move forward with the project.

**NOW THEREFORE, BE IT RESOLVED** by the Board of Mayor and Aldermen of the City of Franklin, Tennessee, that the 100-Block Battle Avenue Drainage Improvement Project, as described above, be authorized for final design, right-of-way acquisition and construction with a budget amount of One Million Two Hundred Thousand Dollars (\$1,200,000).

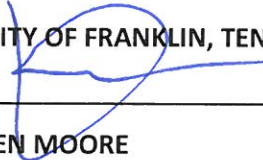
**IT IS SO RESOLVED AND DONE** on this 9<sup>th</sup> day of December, 2014

ATTEST:

By: 

ERIC S. STUCKEY  
City Administrator

CITY OF FRANKLIN, TENNESSEE

By: 

DR. KEN MOORE  
Mayor

Approved as to Form

By: 

Kristen L. Corn, Staff Attorney



August 8, 2014

HISTORIC  
FRANKLIN  
TENNESSEE

Exhibit A  
Resolution 2014-50 Memo  
Page 1 of 5

100-Block Battle Avenue Drainage Improvements Project Questionnaire:  
(Please review the attached letter and exhibits for project information)

The proposed design includes the following:

- Regarding of the public alley as shown on Exhibit C
- Installation of underground stormwater infrastructure as shown on Exhibit C
- Construction of 15'-20' depth detention facility as shown on Exhibit C
- Construction of a Stormwater pump station
- Construction of an access roadway as shown on Exhibit C
- Construction of a chain link fence with barbed wire around the pond to ensure the protection of the general public, and a wooden fence will be used to block the view of the detention pond
- Installation of landscaping around the detention facility and behind residential properties to provide a visual barrier and natural screen the pond/fence from adjacent residents

In an effort to obtain as much public feedback as possible we are asking that you complete the questionnaire below and return it to the City of Franklin Engineering Department prior to August 20, 2014.

1. What is your Address and Contact Information? Are you the Owner or Tenant?
  
2. The current proposal is to remove the existing vegetation and plant new trees on private property (See Exhibit C). Is this acceptable to you as a property owner adjacent to the project?  
 Yes                       No  
Comments:
  
3. The current proposal is to provide a visual barrier and natural screen around the pond/fence. Is this acceptable to you as a property owner?  
 Yes                       No  
Comments:
  
4. Are you in favor in moving forward with the proposed design as shown in Exhibit C?  
 Yes                       No  
Comments:



5. The current proposal provides 100 year flood protection to all properties. However, a portion of the lots on Battle Ave will still experience ponding water in the yards for up to a 48 hour period during major storm events. Is this acceptable to you as a property owner?

Yes  No

Comments:

6. If your property is impacted by flooding, would you rather participate in a voluntary home buyout program?

Yes  No  Does not apply

Comments:

**100-Block Battle Avenue Survey Letter Questions and Responses - 09-09-14**

1. What is your Address and Contact Information? Are you the Owner or Tenant?	2. The current proposal is to remove the existing vegetation and plant new trees on private property (See Exhibit C). Is this acceptable to you as a property owner adjacent to the project?	3. The current proposal is to provide a visual barrier and natural screen around the pond/fence. Is this acceptable to you as a property owner?	4. Are you in favor in moving forward with the proposed design as shown in Exhibit C?	5. The current proposal provides 100 year flood protection to all properties. However, a portion of the lots on Battle Ave will still experience ponding water in the yards for up to a 48 hour period during major storm events. Is this acceptable to you as a property owner?	6. If your property is impacted by flooding, would you rather participate in a voluntary home buyout program?	Summary - For or Against the Project
107 Battle Ave (Pond Expansion Parcel)	no	no	no	no	N/A	AGAINST
109 Battle Ave	yes	yes	yes	yes	no	FOR
110 Battle Ave	yes	yes	yes	yes	N/A	FOR
111 Battle Ave	yes	yes	yes	yes	yes	FOR
113 Battle Ave	yes	yes	yes	yes	no	FOR
114 Battle Ave	yes	yes	yes	yes	N/A	FOR
115 Battle Ave	yes	yes	yes	Didn't answer	Didn't Answer	FOR
117 Battle Ave	N/A	yes	yes	N/A	N/A	FOR
119 Battle Ave	yes	yes	yes	yes	N/A	FOR
110 Fairground St (Storage Units)	Possibly	Possibly	Possibly	no	N/A	Possibly FOR
120 Fairground St	yes	yes	yes	Didn't answer	Didn't answer	FOR
1404 Columbia Ave	yes	yes	yes	yes	N/A	FOR
1416 Columbia Ave	yes	yes	yes	yes	N/A	FOR
<b>TOTAL FOR the Project</b>						<b>11</b>
<b>TOTAL Possibly FOR the Project</b>						<b>1</b>
<b>TOTAL Against the Project</b>						<b>1</b>





HISTORIC  
FRANKLIN  
TENNESSEE

Exhibit A  
Resolution 2014-50 Memo  
Page 4 of 5

August 8, 2014

Dear Resident,

**Please fill out and return the attached questionnaire regarding the following information:**

The City is in the process of moving forward with a drainage improvements project for the 100-Block of Battle Avenue. Residential areas adjacent to Battle Avenue in the vicinity of Academy Street have experienced flooding and drainage issues for many years. The properties we specifically looked at in your area include 109, 111, 113, 114, and 115 Battle Avenue. We know these properties were significantly affected during the May 2010 Flood. The City is also aware of the ongoing flooding issues in the area. Because of this, the 100-Block Battle Avenue Drainage Improvements Project was created in 2013. We have a viable design solution to improve the flooding impacts to the area. This design is nearing completion, and we hope to continue moving forward towards easement acquisition later this summer. But...

The City's Engineering Department presented the preliminary design to our Capital Investment Committee (CIC) / Board of Mayor and Aldermen (BOMA) on Wednesday, May 28, 2014. At this meeting, concerns about project impacts to the residents were brought up. Because of this, we are wanting to gather resident opinions on how this project moves forward.

I have included with this letter:

- Project information below;
- Attached exhibits for your review;
- **A questionnaire that can be filled out and returned.**

**Project Background Information**

For years there have been properties in the Battle Avenue area that have experienced localized flooding, adjacent to Academy Street. During the May 2010 flood, approximately 5 properties reported damage. A professional service agreement (COF Contract No. 2012-0144) with Neel-Schaffer, Inc. was approved on July 24, 2012, for the Battle Avenue Drainage Study. It included the development of a hydrologic and hydraulic model to determine existing conditions, flows and elevations, the development of alternative options to improve the localized flooding for the 100-Block. On November 26, 2013, BOMA approved a professional services agreement with Neel-Schaffer, Inc. for the final design of the 100-Block of Battle Avenue (COF Contract No. 2013-0180).

The 100-Block Battle Avenue project incorporates the following items in its design:

- Expansion of Existing Detention Basin –  
There is one significant man-made detention basin, within the 100-Block of Battle Avenue, for a self-storage facility located at 110 Fairground Street. The existing basin does not have an outlet or outlet control structure. Storm water runoff stored in the existing basin is pumped to an existing storm sewer system at the intersection of Fairground Street and Columbia Avenue. The pump station includes one primary pump without an auxiliary or emergency pump. If the primary pump fails for any reason, it is possible the detention basin would overflow into the adjacent low area to the north. The recommended alternative for improving drainage and flooding within the 100 block area of Battle Avenue includes expansion of the existing pond approximately 100 feet to the north which increases available storage to contain storm water runoff. With the pond expanded, an auxiliary pump would be installed and



drawdown after a rainfall event be regulated to ensure that capacity of the existing storm water system where the water is pumped is not exceeded. The expanded detention pond would be placed on an isolated parcel of land located behind 1408 Columbia Avenue and 107 Battle Avenue. See EXHIBIT A.

- EXHIBIT B shows the extent of existing flooding within the 100 block of Battle Avenue and improvement to existing flooding resulting from implementation of the current design. Additional storage volume of the expanded detention basin would provide enough volume to reduce flooding and drainage issues at all five residences in the 100-Block of Battle Avenue during the 100-year storm event. Any storm event larger than a 100-year storm, like the May 2010 Flood, may still have some flooding impacts to properties in the area. This is mainly because of the downstream storm water system, and its capacity constraints.
- Stormwater area drains will be installed at the low points near 113 and 114 Battle Avenue to eliminate the roadway ponding / hydroplaning concern. This system will be piped between 113 and 115 Battle Avenue to the City owned alley behind these properties. The Stormwater will then continue being piped along the alley to the expanded detention pond. See EXHIBITS B and C.
- The backyards of 109 through 115 will be slightly re-graded so stormwater ponding can drain towards the City alley. A new swale will be created in the alley that will properly convey the backyard stormwater to the expanded detention pond. To properly install this system, some existing trees and landscaping will be removed and replaced with new landscaping. See EXHIBIT B and C.

Property Acquisition will encompass multiple drainage easements and temporary construction easements. The City hopes these will be donated because of the improvements we are making to their properties.

Also, a second project alternative was discussed in prior meetings that included a complete roadway storm water infrastructure system which would eliminate the need for a detention pond. This alternative was estimated at \$2.7 Million, so it was deemed too expensive.

**Again, please fill out and return the attached questionnaire using the postage paid envelope.** Or, feel free to email ([william.banks@franklintn.gov](mailto:william.banks@franklintn.gov)) or fax (615-791-3293) the questionnaire to me. You can also contact me at 550-6677.

Very sincerely,

William Banks  
Project Manager  
City of Franklin, TN  
Engineering Department  
109 3<sup>rd</sup> Avenue South  
P.O. Box 305  
Franklin, TN 37065



**Exhibit A**  
**100-Block Battle Ave Design**  
**Update**



**POND EXPANSION**  
107 Battle Ave.  
Parcel ID: 078J G 02101 000090780

**Legend**

	Pond Expansion
	Proposed Detention Basin
	Parcels

**CITY OF FRANKLIN**  
**BATTLE AVENUE DRAINAGE DESIGN**  
**100 BLOCK**

**NEEL-SCHAFFER**  
*Solutions you can build upon*

<b>RECOMMENDED</b> <b>ALTERNATIVE</b>
<b>EXHIBIT</b>



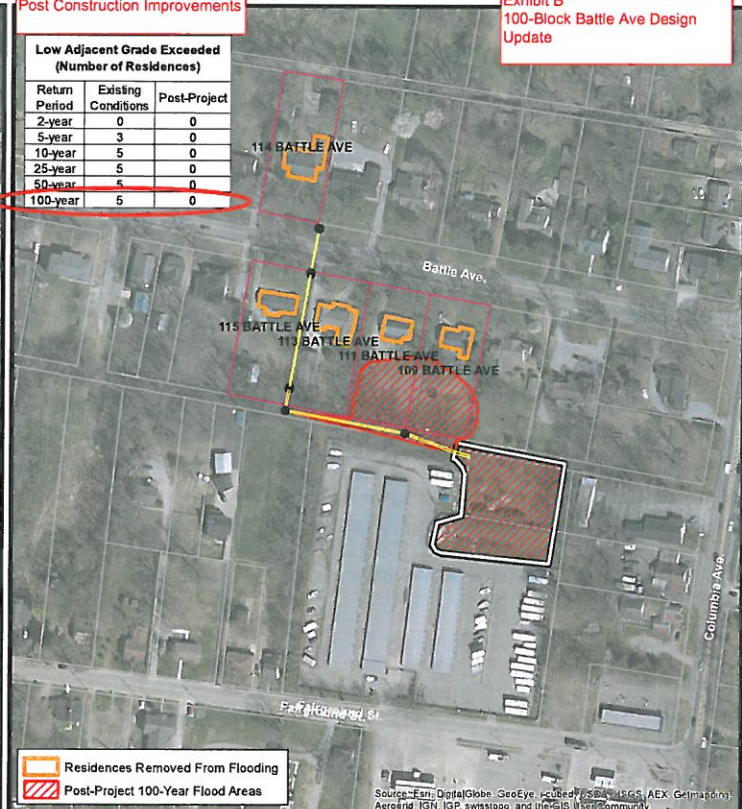
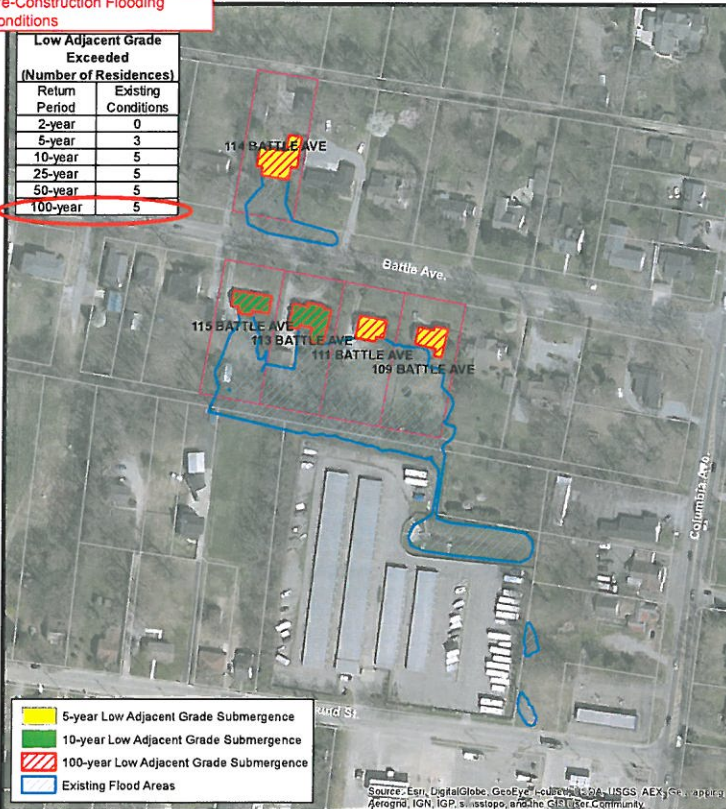
**Pre-Construction Flooding Conditions**

**Post Construction Improvements**

**Exhibit B  
100-Block Battle Ave Design Update**

Low Adjacent Grade Exceeded (Number of Residences)	
Return Period	Existing Conditions
2-year	0
5-year	3
10-year	5
25-year	5
50-year	5
100-year	5

Low Adjacent Grade Exceeded (Number of Residences)		
Return Period	Existing Conditions	Post-Project
2-year	0	0
5-year	3	0
10-year	5	0
25-year	5	0
50-year	5	0
100-year	5	0



**Legend**

- Parcels
- Areas of Interest
- Post-Project 100-Year Flood Areas
- Proposed Detention Pond Expansion
- Proposed Manholes/Area Drains
- Proposed Pipes
- Residences Removed From Flooding

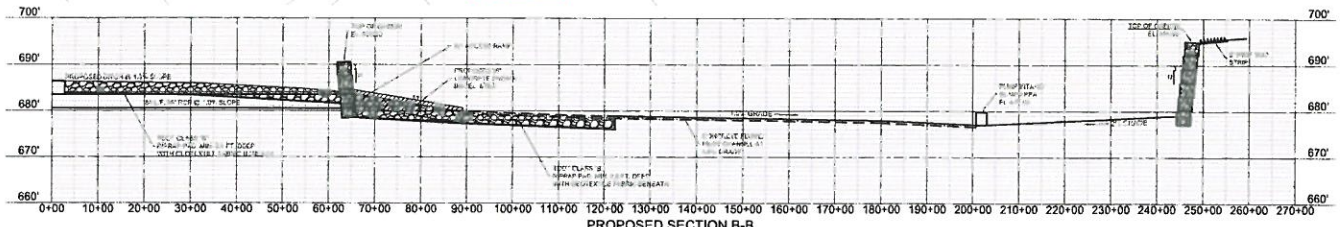
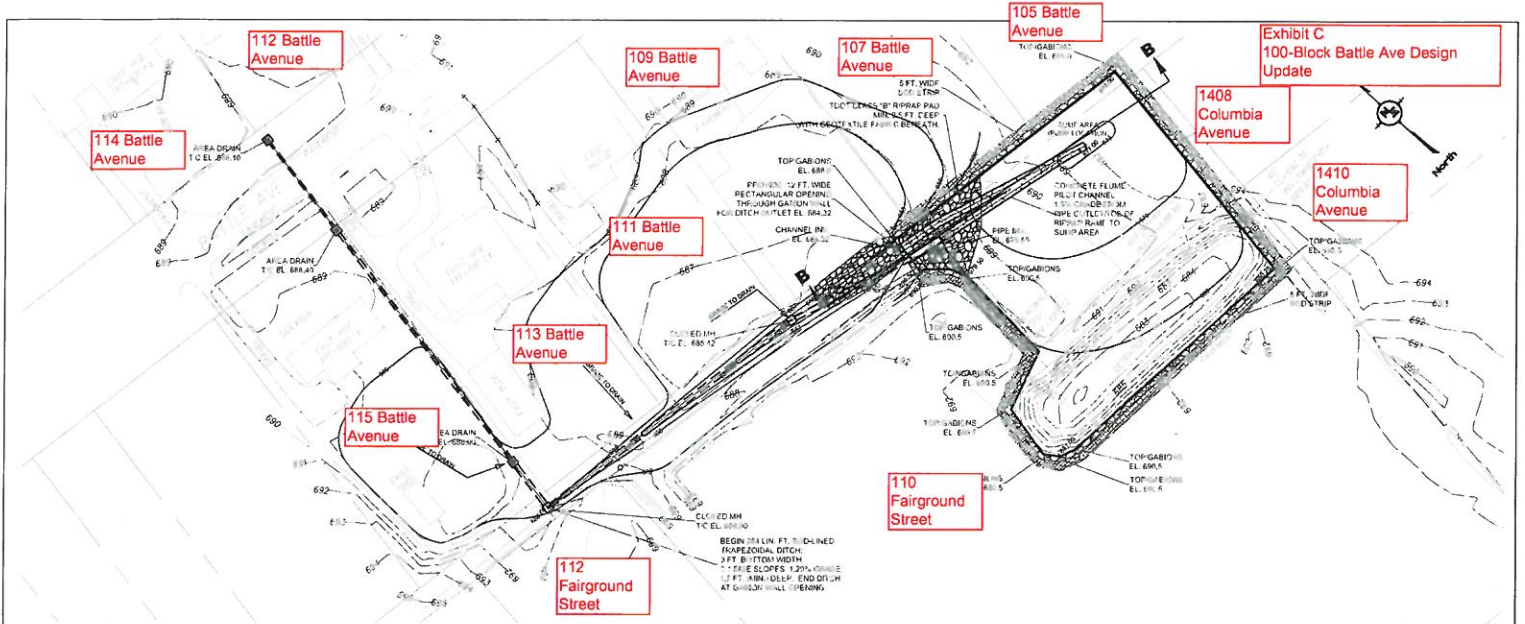
**CITY OF FRANKLIN**  
**PROPOSED BATTLE AVENUE DRAINAGE IMPROVEMENTS**  
**100 BLOCK**

**NEEL-SCHAFFER**  
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**RECOMMENDED ALTERNATIVE**  
**LOW ADJACENT**  
**GRADE EXCEEDANCE**

**EXHIBIT B**



PROPOSED SECTION B-B  
SCALE: 1" = 10' HORIZ.  
1" = 10' VERT.

REVISIONS			DRAWING INFORMATION		
NO.	DATE	BY	DESCRIPTION	AS PROJECTED	DATE

CITY OF FRANKLIN, TENNESSEE  
100 BLOCK BATTLE AVENUE  
DRAINAGE IMPROVEMENTS

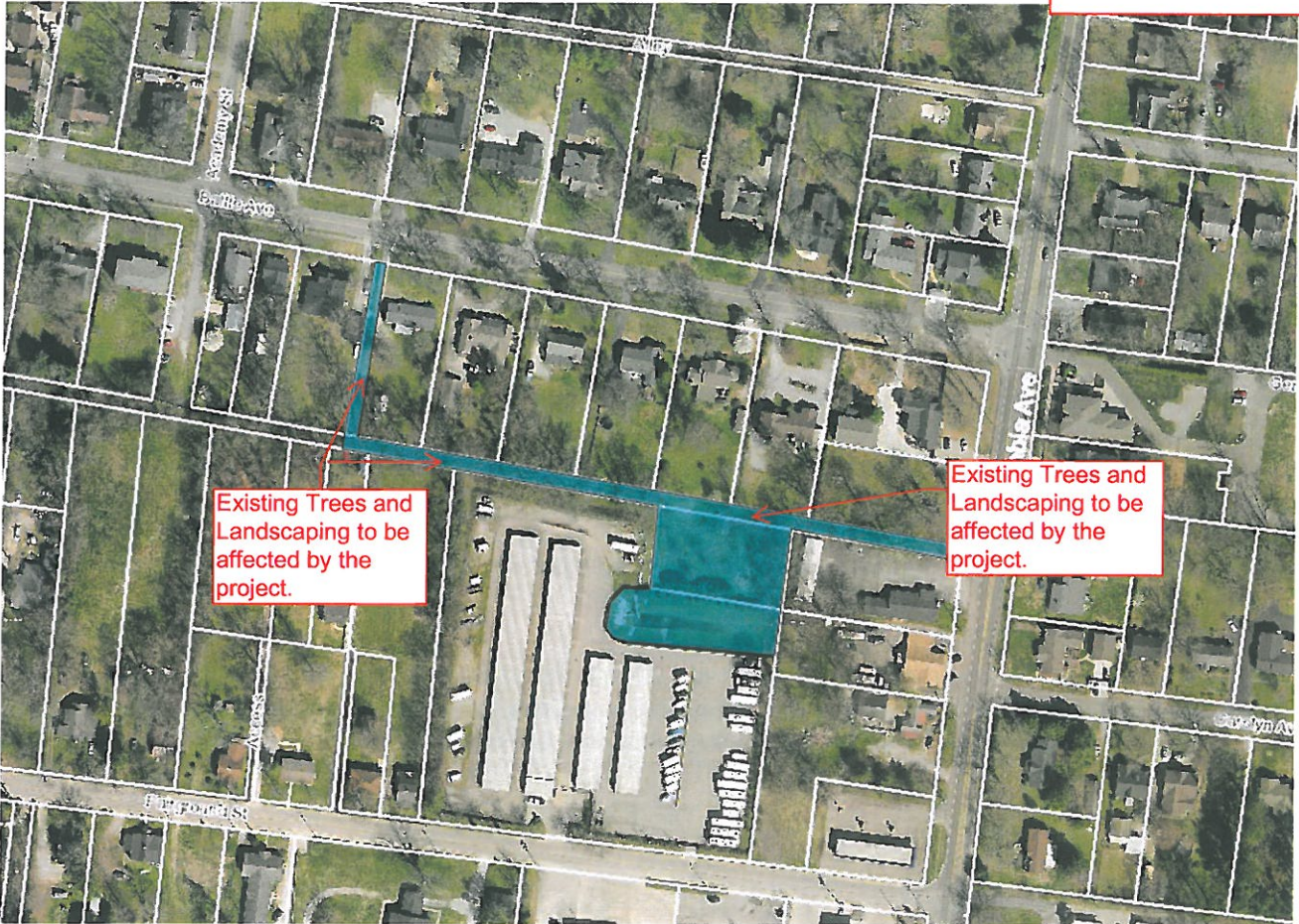
**NEEL-SCHAFFER**  
Solutions you can build upon

210 2ND AVENUE NORTH, SUITE 800  
BIRMINGHAM, TN 38203  
PH: 688-8400 F: 688-1484

RECOMMENDED ALTERNATIVE PLAN & PROFILE	
WORKING NUMBER	DRAWING NUMBER
	1 of 1



Exhibit D  
100-Block Battle Ave Design  
Update



Existing Trees and Landscaping to be affected by the project.

Existing Trees and Landscaping to be affected by the project.