

CAPITAL IMPROVEMENT PLAN

***for* FY 2019-2028**

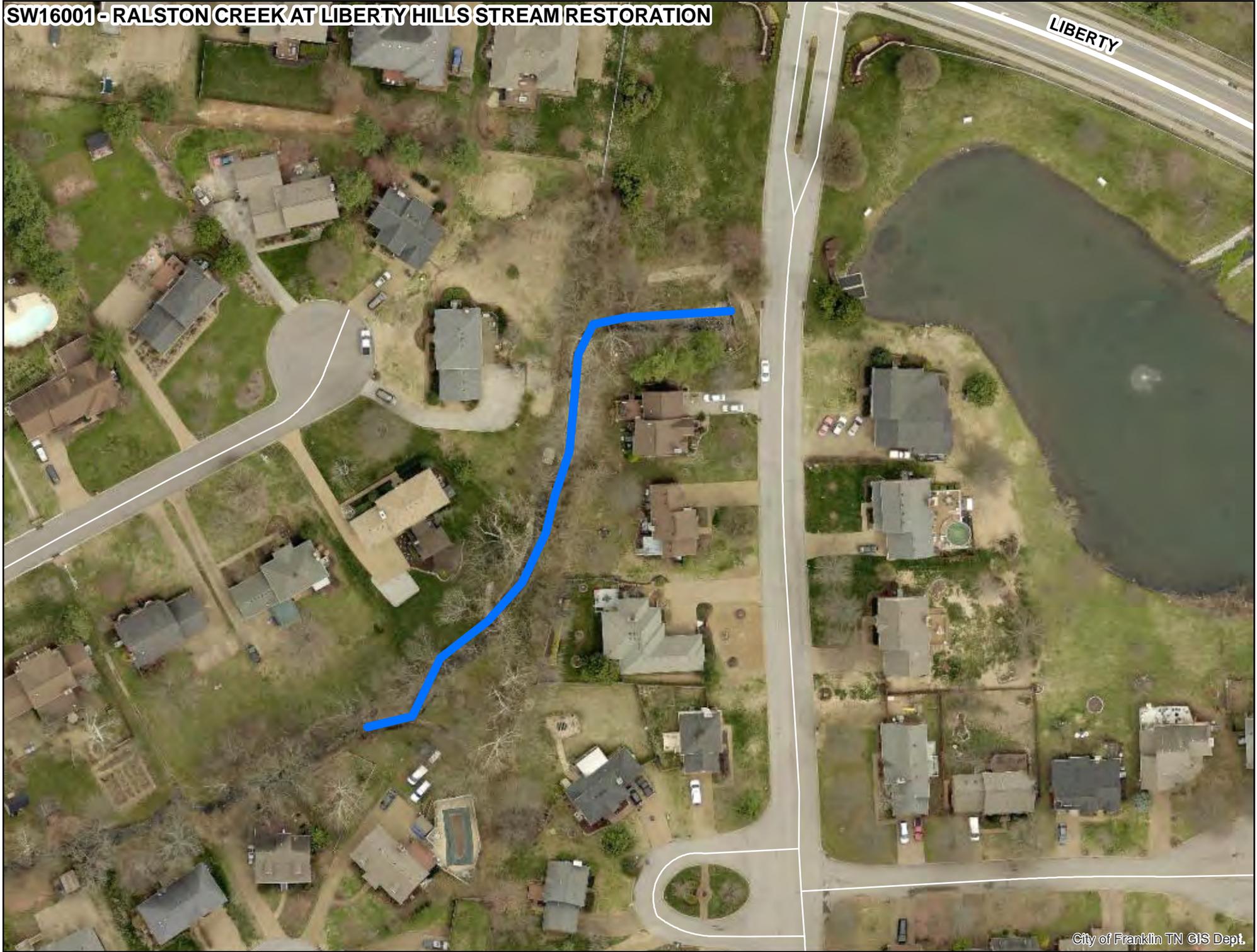
Project Sheets – Stormwater

City of Franklin, Tennessee
CIP FY2019-2028
FY 19 thru FY 28

PROJECTS BY CATEGORY

Category	#	Priority	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
Stormwater													
Ralston Creek at Liberty Hills Stream Restoration	SW16001	2	50,000	300,000									350,000
Parkview Drainage Project	SW16002	1					120,000	450,000	1,680,000				2,250,000
100 Block Battle Avenue Drainage Improvements	SW16003	2	1,500,000	350,000									1,850,000
Figuers Drive Area Drainage Improvements	SW16004	1				150,000	400,000	1,296,000					1,846,000
Jordan Branch (Cool Springs E) Stream Restoration	SW16005	4	760,000										760,000
Maplewood Stormwater Project	SW16007	4	500,000	30,000									530,000
Carrton Ln Bridge Replacement	SW16008	4	300,000										300,000
Carlisle HOA Culvert Project	SW19001	3	35,000	500,000									535,000
Fairground Drainage Improvements	SW19002	1			100,000	1,500,000							1,600,000
USACE - Home Raising Project	SW19003	2	200,000	2,500,000									2,700,000
West Main Bridge Widening Project	SW19004	3			60,000	395,000							455,000
Stormwater Total			3,345,000	3,680,000	160,000	2,045,000	520,000	1,746,000	1,680,000				13,176,000
GRAND TOTAL			3,345,000	3,680,000	160,000	2,045,000	520,000	1,746,000	1,680,000				13,176,000

SW16001 - RALSTON CREEK AT LIBERTY HILLS STREAM RESTORATION



LIBERTY

Project # SW16001
Project Name Ralston Creek at Liberty Hills Stream Restoration

Department Stormwater
Contact Engineering Director
Type Improvement
Useful Life 20+
Category Stormwater
Priority 2 Star Project
Status Funding Obligated

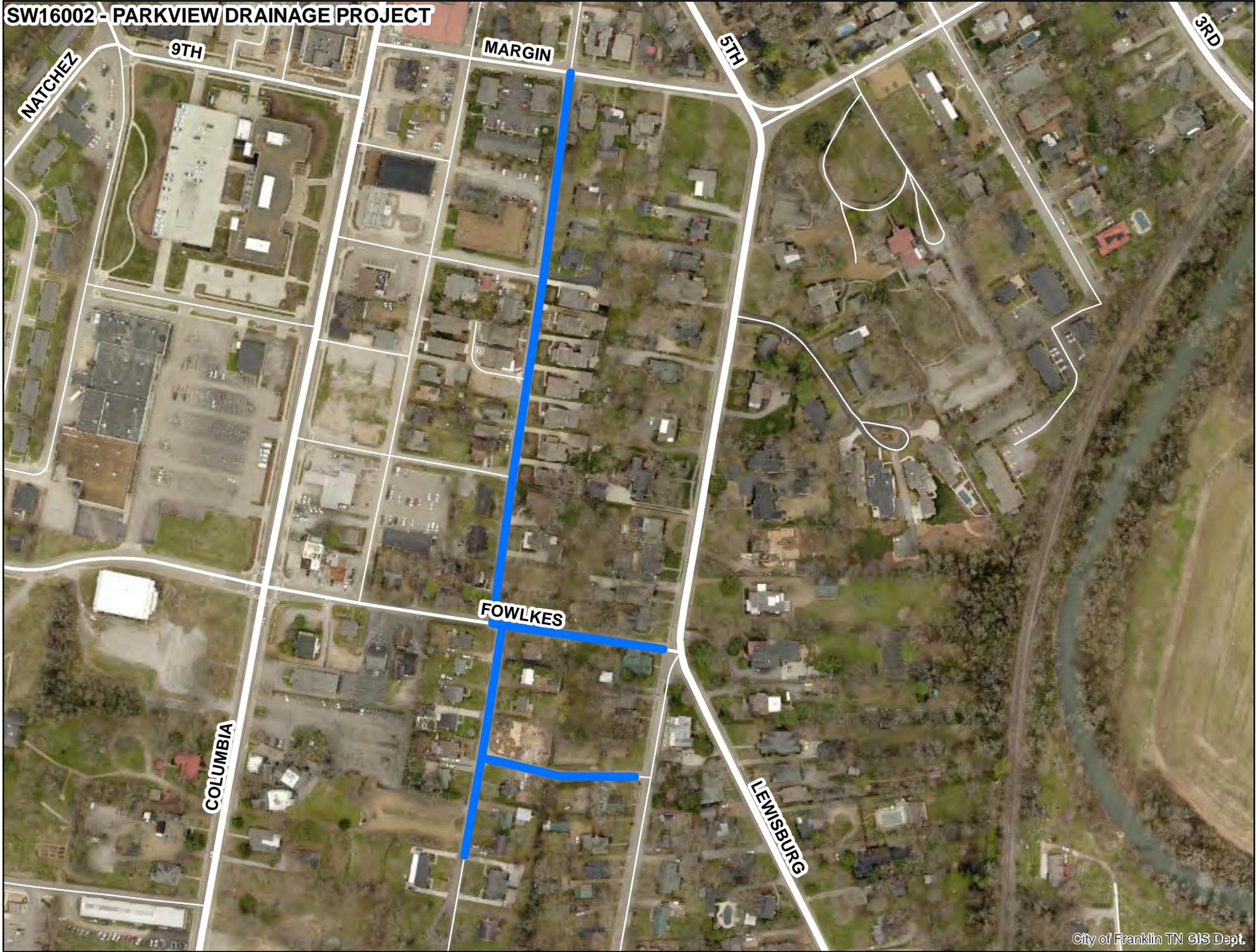
Description	Total Cost \$498,400
Stream and Bank Stabilization project on Ralston Creek at Liberty Hills Subdivision.	

Justification
The City has received a number of complaints from residents in the Royal Oaks Subdivision regarding flooding due to storm water from Ralston Creek overtopping the stream banks. There are also certain areas along Ralston Creek that are experiencing bank failure, some of which the City has attempted to temporarily address until a permanent solution can be determined and installed. The property located 3009 Liberty Hills Drive has lost a significant portion of their back yard and is no experiencing structural cracks within their home.

Prior	Expenditures	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
148,400	ROW and Easements	50,000										50,000
Total	Construction Engineering / Inspection		50,000									50,000
	Construction		250,000									250,000
	Total	50,000	300,000									350,000

Prior	Funding Sources	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
148,400	Stormwater	50,000	300,000									350,000
Total	Total	50,000	300,000									350,000

SW16002 - PARKVIEW DRAINAGE PROJECT



Project # SW16002
Project Name Parkview Drainage Project

Department Stormwater
Contact Engineering Director
Type New
Useful Life 20+
Category Stormwater
Priority 1 Star Project
Status Pending

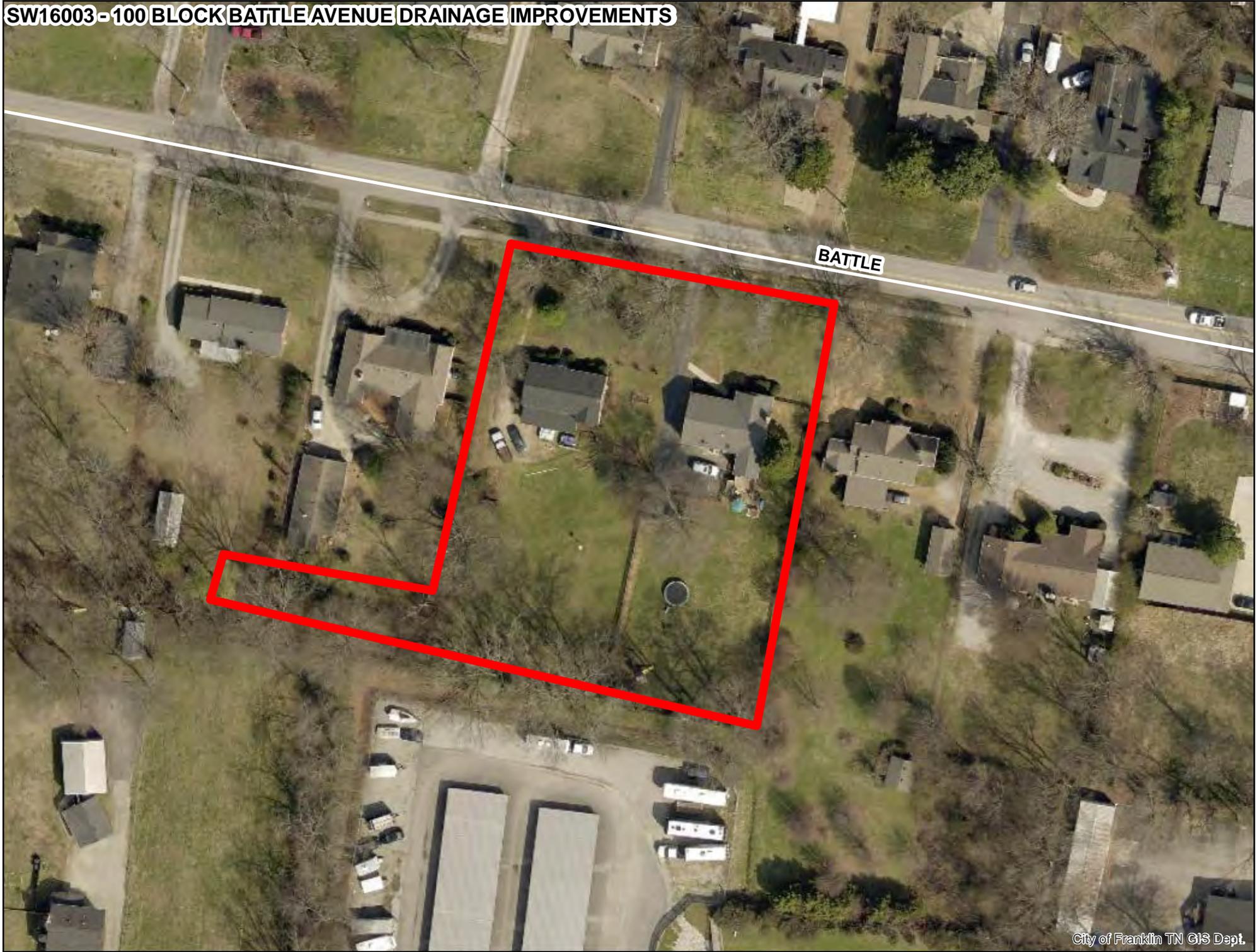
Description	Total Cost \$2,250,000
Install drainage infrastructure in the area of Parkview Drive.	

Justification
The existing stormwater system mainly consists of a series of intermittent roadside ditches and culverts. This area has been a problem since the early 90's with no substantial improvements. The roadways lack drainage infrastructure. This infrastructure is needed to help protect against localized flooding during heavy rain events. The installation of stormwater infrastructure in the older areas of town should be completed when the Water and Santuary sewer is rehabilitated.

Expenditures	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
Design/Planning (Professional Services)					120,000						120,000
ROW and Easements						450,000					450,000
Construction Engineering / Inspection							180,000				180,000
Construction							1,500,000				1,500,000
Total					120,000	450,000	1,680,000				2,250,000

Funding Sources	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
Stormwater					120,000	450,000	1,680,000				2,250,000
Total					120,000	450,000	1,680,000				2,250,000

SW16003 - 100 BLOCK BATTLE AVENUE DRAINAGE IMPROVEMENTS



Project # SW16003
Project Name 100 Block Battle Avenue Drainage Improvements

Department Stormwater
Contact Engineering Director
Type Improvement
Useful Life 20+
Category Stormwater
Priority 2 Star Project
Status Funding Obligated

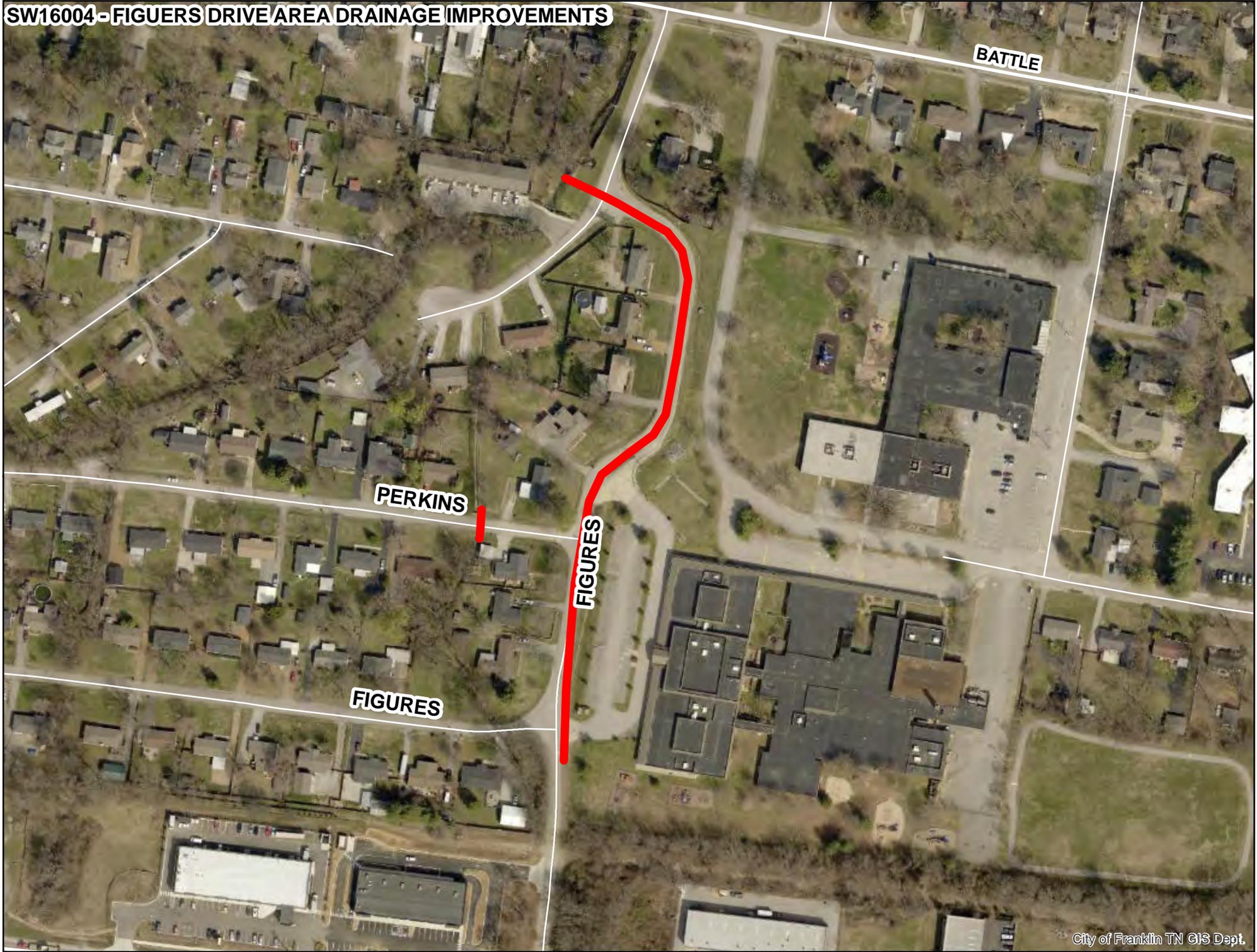
Description	Total Cost \$2,087,700
This project includes the construction of a regional detention pond located between 107 Battle Avenue and 101 Fairground Street. This project will include a design for a 100-year storm event and a new stormwater pump station.	

Justification
For years there have been properties in the Battle Avenue area that have experienced localized flooding. 5 properties reported damage during the May 2010 Flood. 3 of the properties had water in the crawl space to the floor framing and t properties had 1-3' of standing water in their finished basement. The impacted properties include 109, 111, 113, 114 and 117 Battle Ave.

Prior	Expenditures	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
237,700	ROW and Easements	1,500,000										1,500,000
Total	Construction Engineering / Inspection		20,000									20,000
	Construction		330,000									330,000
	Total	1,500,000	350,000									1,850,000

Prior	Funding Sources	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
237,700	Stormwater	1,500,000	350,000									1,850,000
Total	Total	1,500,000	350,000									1,850,000

SW16004 - FIGUERS DRIVE AREA DRAINAGE IMPROVEMENTS



Project # SW16004
Project Name Figuers Drive Area Drainage Improvements

Department Stormwater
Contact Engineering Director
Type New
Useful Life 20+
Category Stormwater
Priority 1 Star Project
Status Pending

Total Cost \$2,083,700

Description

This project includes the installation and upgrade of existing stormwater infrastructure in the Figuers Drive Area to include: Channel improvements from Alicia Drive to Figuers Drive; Culver upgrades at Perkins Drive and Figuers Drive, Diversion Storm Sewer from Figuers Dr. to Perkins Dr, Concrete Channel from Perkins Dr. to Alicia Dr and 6x3 RCB at Alicia Dr.

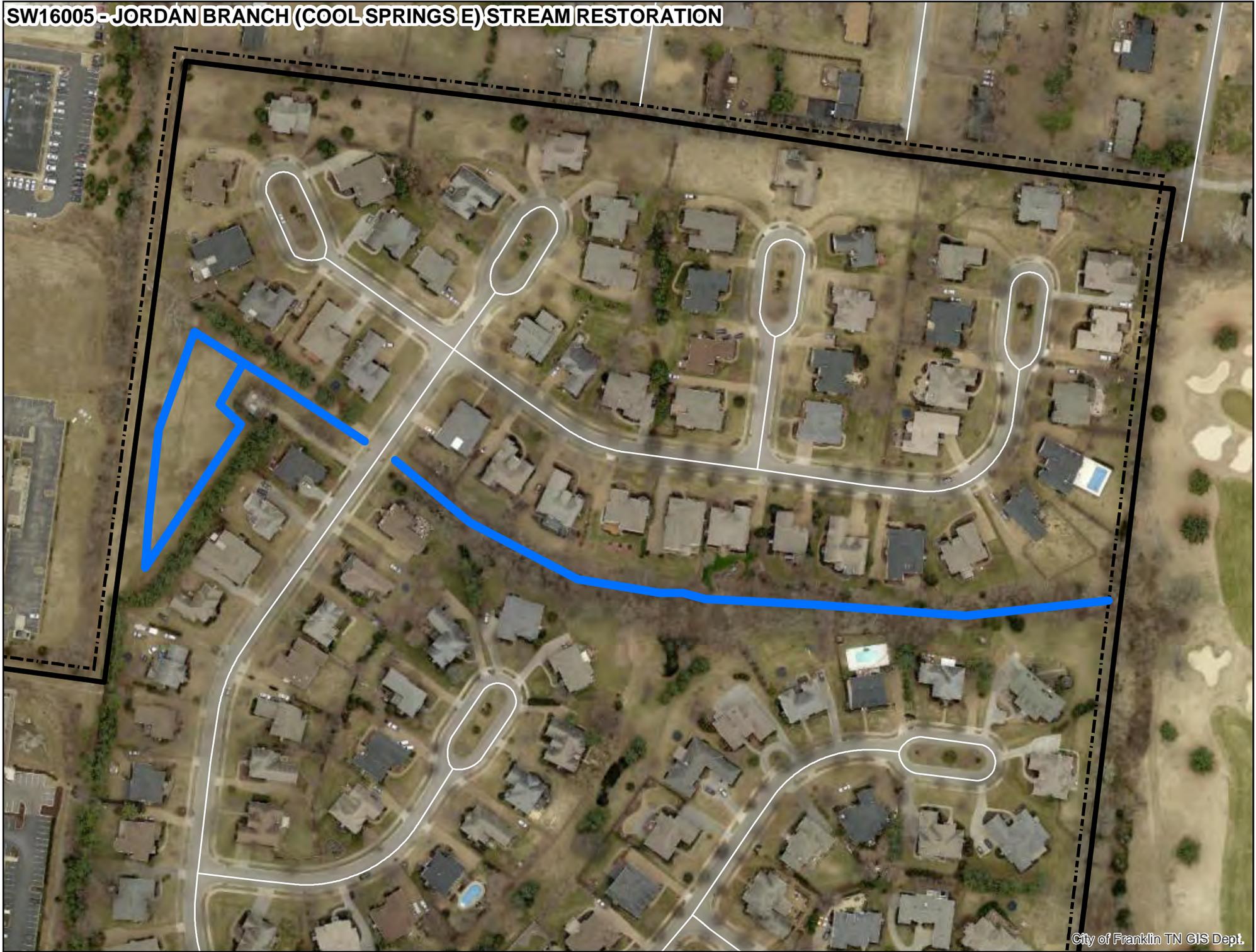
Justification

The City has received a number of recent complaints from residents in the Figuers Drive area. Large rain events can cause flooding on the roadway and impact around 5 residential structures. Numerous other properties nad roadways are impacted by nuisance flooding problems associated with lack of infrastructure in the area.

Prior	Expenditures	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
237,700	Design/Planning (Professional Services)				150,000							150,000
Total	ROW and Easements					400,000						400,000
	Construction Engineering / Inspection						96,000					96,000
	Construction						1,200,000					1,200,000
	Total				150,000	400,000	1,296,000					1,846,000

Prior	Funding Sources	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
237,700	Stormwater				150,000	400,000	1,296,000					1,846,000
Total	Total				150,000	400,000	1,296,000					1,846,000

SW16005 - JORDAN BRANCH (COOL SPRINGS E) STREAM RESTORATION



Project #	SW16005
Project Name	Jordan Branch (Cool Springs E) Stream Restoration

Department Stormwater
Contact Engineering Director
Type Improvement
Useful Life 20+
Category Stormwater
Priority 4 Star Project
Status Funding Obligated

Total Cost \$1,018,795

Description

Restore and stabilize banks along Jordan Branch within The Meadow Subdivision located off of Bakers Bridge Avenue.

Justification

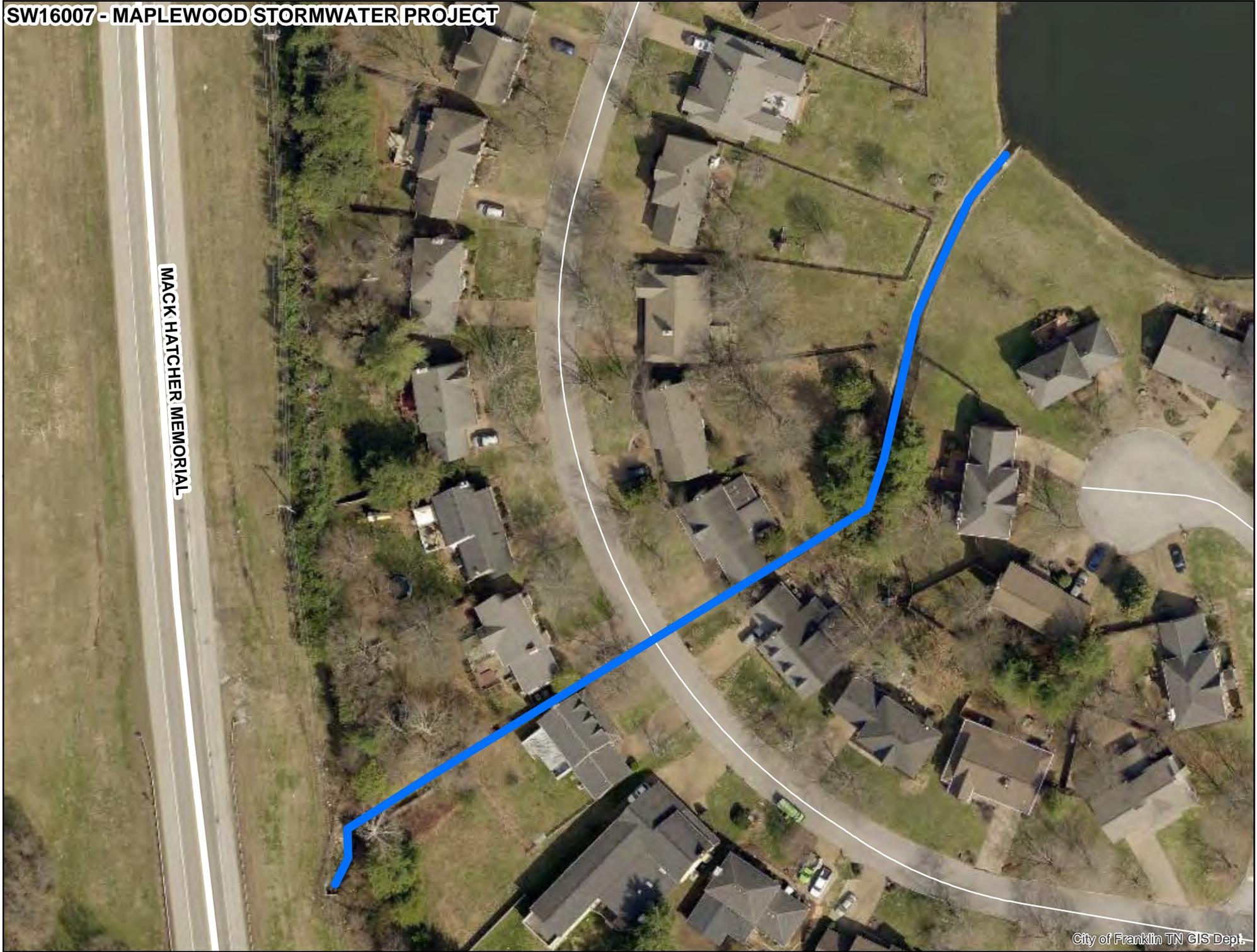
The City of Franklin has had complaints for several years regarding erosion of Jordan Branch/Spencer Creek which flows behind several houses before flowing under Cliffe Run in The Meadow Subdivision located off of Bakers Bridge Avenue. Jordan Branch is severely entrenched with eroding and undercut banks. The trees are in danger of falling and could possibly fall on or very near the 18 homes bordering Jordan Branch. Relatively large portions of backyards are likely going to be "uprooted" when the trees fall. Stormwater channels designed to convey flow from the subdivision to the stream are "head-cutting" which is also contributing to the loss of backyards in the form of eroding channels between lots.

Prior	Expenditures	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
258,795	Construction Engineering / Inspection	60,000										60,000
Total	Construction	700,000										700,000
	Total	760,000										760,000

Prior	Funding Sources	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
258,795	Stormwater	760,000										760,000
Total	Total	760,000										760,000

SW16007 - MAPLEWOOD STORMWATER PROJECT

MACK HATCHER MEMORIAL



Project # SW16007 Project Name Maplewood Stormwater Project
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Department Stormwater
Contact Engineering Director
Type Improvement
Useful Life 20+
Category Stormwater
Priority 4 Star Project
Status Pending

Description	Total Cost \$560,640
Replace failing 72" CMP within the Maplewood Subdivision.	

Justification
72" CMP is failing and is adjacent to homes and under the roadway and numerous utilities.

Prior	Expenditures	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
30,640	Construction Engineering / Inspection		30,000									30,000
Total	Construction	500,000										500,000
	Total	500,000	30,000									530,000

Prior	Funding Sources	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
30,640	Stormwater	500,000	30,000									530,000
Total	Total	500,000	30,000									530,000

SW16008 - CARNTON LN BRIDGE REPLACEMENT



Project # SW16008 Project Name Carnton Ln Bridge Replacement

Department Stormwater
Contact Engineering Director
Type Improvement
Useful Life 20+
Category Stormwater
Priority 4 Star Project
Status Funding Obligated

Description Replace CMP bridge located in the Carton Subdivision.	Total Cost \$346,049
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Justification CMP bridge is currently failing and needs to be replaced.

Prior	Expenditures	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
46,049	Construction	300,000										300,000
Total	Total	300,000										300,000

Prior	Funding Sources	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
46,049	Stormwater	300,000										300,000
Total	Total	300,000										300,000

SW19001 - CARLISLE HOA CULVERT PROJECT



NEW HWY 96

DOWNNS

Project # SW19001
Project Name Carlisle HOA Culvert Project

Department Stormwater
Contact Engineering Director
Type Improvement
Useful Life 20+
Category Stormwater
Priority 3 Star Project
Status Active

Total Cost \$553,500

Description

An existing channel between the Carlisle Subdivision and Founders Point Subdivision has created localized flooding within the Carlisle Subdivision. This project involves piping in the wet weather conveyance located between the Carlisle HOA and Founders Pointe HOA.

Justification

A study completed in 2018 shows that multiple properties are impacted by the 100 yr storm event. One of the properties located in the Carlisle HOA has been flooded at least 3 times since the Carlisle HOA was developed.

Prior	Expenditures	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
18,500	Design/Planning (Professional Services)	35,000										35,000
Total	ROW and Easements		100,000									100,000
	Construction		400,000									400,000
	Total	35,000	500,000									535,000

Prior	Funding Sources	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
18,500	Stormwater	35,000	500,000									535,000
Total	Total	35,000	500,000									535,000

SW19002 - FAIRGROUND DRAINAGE IMPROVEMENTS



COLUMBIA

DOWNS

Project # SW19002 Project Name Fairground Drainage Improvements
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Department Stormwater
Contact Engineering Director
Type Unassigned
Useful Life 20+
Category Stormwater
Priority 1 Star Project
Status Pending

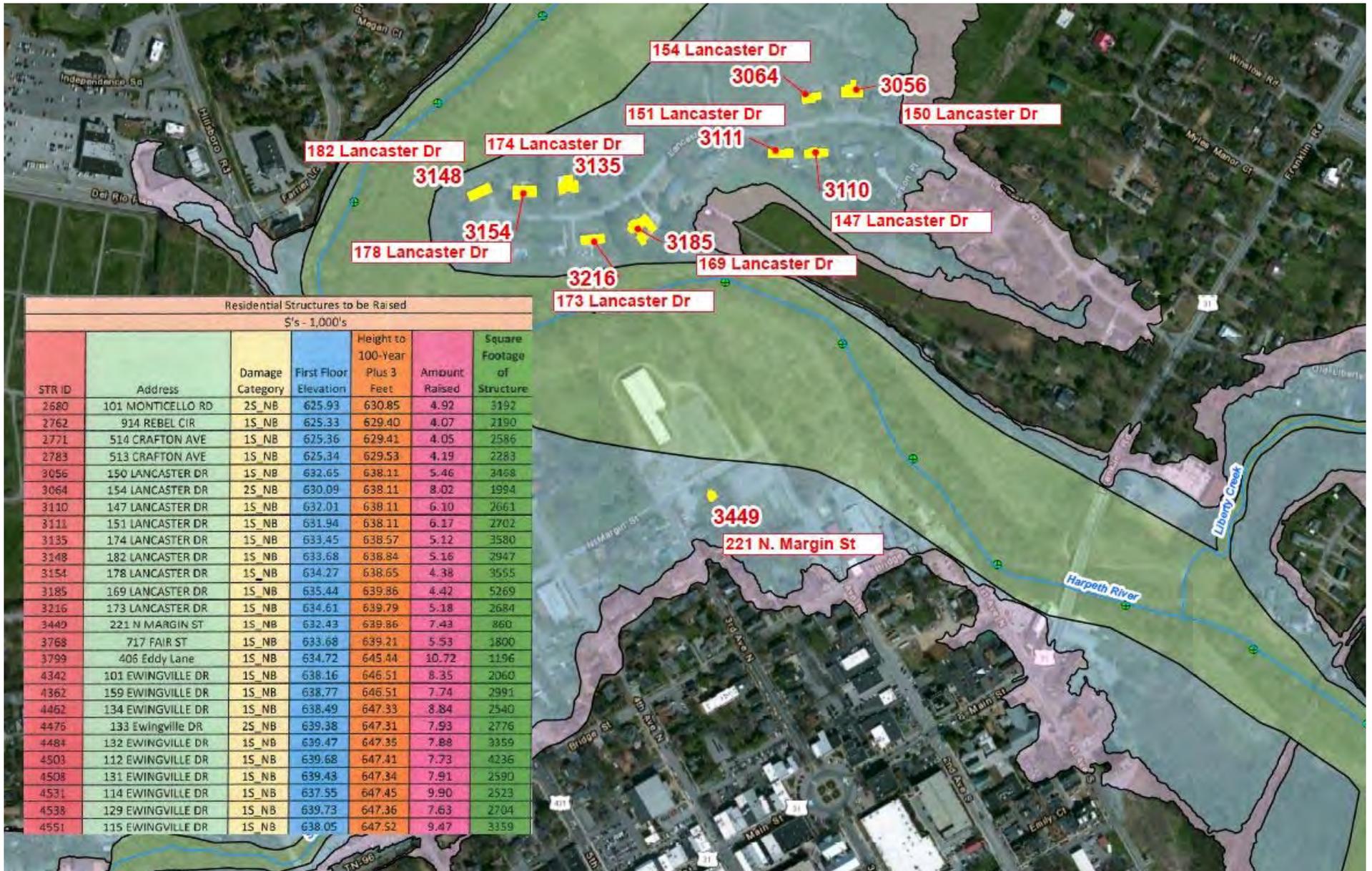
Description	Total Cost \$1,600,000
This project include the installation of stomrwater infastructure along Columbia Ave to provide drainage infastructure to Fairground Street.	

Justification
The existing storm water infastructure is undersized and in need of replacement. This would resolve nuisance flooding and drainage issues in the area.

Expenditures	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
Design/Planning (Professional Services)			50,000								50,000
ROW and Easements			50,000								50,000
Construction Engineering / Inspection				100,000							100,000
Construction				1,400,000							1,400,000
Total			100,000	1,500,000							1,600,000

Funding Sources	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
Stormwater			100,000	1,500,000							1,600,000
Total			100,000	1,500,000							1,600,000

SW19003—USACE Home Raising Project



Project #	SW19003
Project Name	USACE - Home Raising Project

Department Stormwater
Contact Engineering Director
Type Unassigned
Useful Life 20+
Category Stormwater
Priority 2 Star Project
Status Active

Total Cost \$2,700,000

Description

Voluntary Program for 26 home raising as identified by the USACE. The project is 65% funded by the USACE and 35% funded by either the City or the Homeowner.

Justification

Following the May 2010 flood event the USACE completing a feasibility study to analyze alternative flood risk management options. This is one option that was identified by the USACE.

Expenditures	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
Design/Planning (Professional Services)	200,000										200,000
Construction		2,500,000									2,500,000
Total	200,000	2,500,000									2,700,000

Funding Sources	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
Stormwater	100,000	875,000									975,000
Misc. Grant	100,000	1,625,000									1,725,000
Total	200,000	2,500,000									2,700,000

SW19004 - WEST MAIN BRIDGE WIDENING PROJECT



Project #	SW19004
Project Name	West Main Bridge Widening Project

Department Stormwater
Contact Engineering Director
Type Improvement
Useful Life
Category Stormwater
Priority 3 Star Project
Status Pending

Description	Total Cost \$455,000
This project includes the widening of the existing bridge to add a shoulder on the north side of the bridge.	

Justification
This proejct will improve the saftey of the roadway and provide a sholder for pedestrians to walk / cross the stream as needed.

Expenditures	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
Design/Planning (Professional Services)			60,000								60,000
ROW and Easements				50,000							50,000
Construction Engineering / Inspection				345,000							345,000
Total			60,000	395,000							455,000

Funding Sources	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Total
Stormwater			60,000	395,000							455,000
Total			60,000	395,000							455,000