



2020 ANNUAL RECERTIFICATION
ACTION ITEMS EVALUATION REPORT
OF THE JULY 2015
REPETITIVE LOSS AREA ANALYSIS (RLAA)
CITY OF SAVANNAH
DEVELOPMENT SERVICES DEPARTMENT

512.b. Repetitive loss area analysis (RLAA)

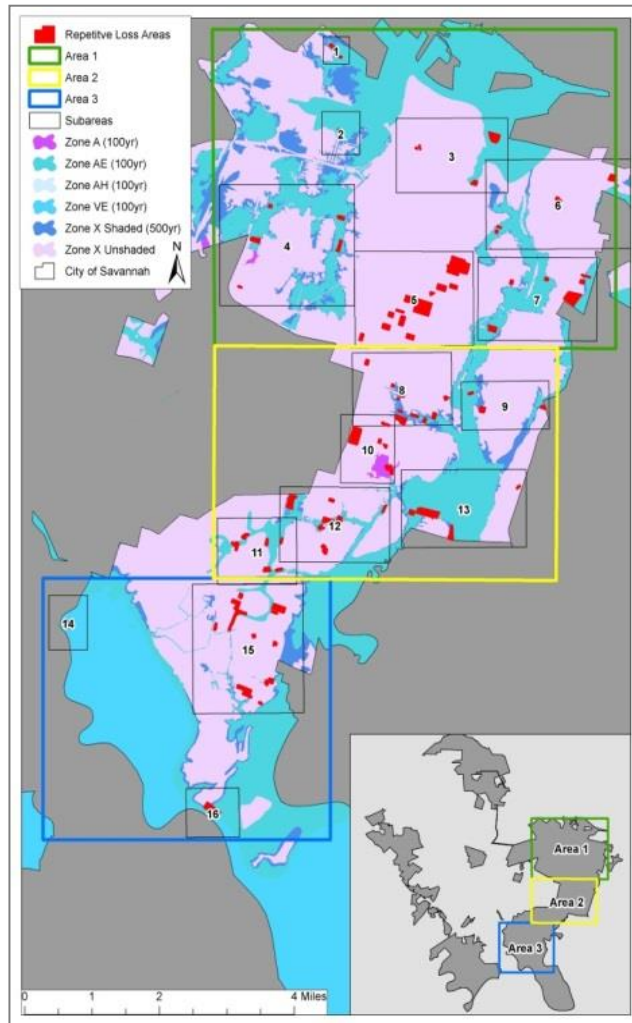
(4) The community must prepare an annual evaluation report for its area analyses.

- The report must review each action item, describe what was implemented (or not implemented), and recommend changes to the action items as appropriate.
- One annual report can cover some or all of the area analyses that were prepared.
- The report must be made available to the media and the public (including the property owners and residents of the repetitive loss areas).
- The report is submitted with the community's annual recertification.

How the City provided the Report to the media and public:

1. The City of Savannah provided the report to the media through a press release by the City's Public Information Office.
2. The Report is posted on the City's Flood Protection Information Web Page.
3. Copies of the report are available at the City's Development Service Department,
Located at: 5515 Abercorn St, Savannah GA, 31405

City of Savannah 2020 510 Repetitive Loss Area Analyses RLAA General Area 1



Conclusion and Recommendations - General Area 1

Conclusion

Based on the field survey and collection of data, the analysis of existing studies and reports, and the evaluation of various structural and non-structural mitigation measures, the City of Savannah proposes that mitigation measures be implemented for General Area 1. Table 16 examines past and current mitigation actions in this area.

Past and Current Mitigation Actions in General Area 1

Current Actions

1	Property owners have documented flooding and identified flooding concerns in returned questionnaires from this analysis.
2	The City has eliminated 21 properties from the repetitive loss list through acquisition and demolition. Many of these areas have been converted to community gardens which have proven to be very popular in the City.
3	Property owners are aware of flooding causes. Some property owners have undertaken specific floodproofing measures at their own expense.
4	City has undertaken numerous, costly capital improvement projects to improve drainage within this Area.

Recommendations

The City will encourage property owners to use floodproofing measures to help protect lower levels of their property. The City will also increase its public education efforts to increase awareness of flood preparedness and flood protection measures including moving valuable items to above the flood elevation and permanently elevating vulnerable HVAC units. At the same time, the City will work with property owners, citizens, neighboring communities, the state and other regional and federal agencies to implement capital improvement projects which will help to eliminate flooding in the repetitive loss areas.

Mitigation Action 1:

Property owners should obtain and keep a flood insurance policy on their structures (building and contents coverage). The City will continue on an annual basis to target all properties in the repetitive loss areas reminding them of the advantages to maintaining flood insurance through its annual outreach effort.

Responsibility

The City's Development Services Department will provide the most relevant up-to-date flood insurance information to all property owners within the repetitive loss areas located in General Area 1.

Funding

The cost will be paid for from the City's operating budget through the Development Services Department.

City of Savannah 2020 Action

** On September 13, 2019, City of Savannah (COS) mailed out 412 letters to residence of the General Area 1. The letter provides advice on elevating equipment and retrofitting their homes from the effects of flooding. Other topics include funding opportunities through grants, to include ICC and flood insurance.

** Additionally, in December 8, 2019 the City of Savannah and Chatham County governments contracted Morning News to deliver a six full page advertisement promoting a multiple topics of flood

The library has the FIRM maps and additional documents pertaining to flood plain management topics. DFIRMs can be viewed at www.sagis.org. If you would like further information on flooding, on site visit to discuss flood protection measures, flood insurance, ICC, FEMA grants, building permits, substantial Damage, flood zones, retrofitting, elevation certificates, how to pick a contractor, a 30-day activation waiting period, property damaged by a flood greater than that predicted on the FIRM or from local drainage problem not shown on the map and homeowner's insurance may not cover flood damage. The informational publication is free and delivered to each over 90% of residence and business in the area. (The COS is currently set up the next publication to go out in late October 2020).

** On January 3, 2020 a 11" X 17.5", doubled sided publication was sent to all structures in the SFHA within this "AREA". The publication used to be referred to as an OPF outreach that cover 10 CRS topics which include: Local flooding Hazards, Personal Safety Facts, Flood Insurance, Property Protection, Natural Beneficial Functions of the Floodplain, Flood Warning System, Permit Requirements, Substantial Improvement Requirements, Drainage System Maintenance, and Local Contact for more information. The back side provides a 1"=1 mile scale area map of the flood zones and flooded properties.

** In order to have an up-to-date and affective outreach, COS has requested the University of Georgia to review the flyer. Mrs. Jill Gambill, Coastal Resilience Specialist and Public Service Assistant of University of Georgia Marine Extension and Georgia Sea Grant, reviews the flyer for comments. Additionally, Mrs. Carol Miller of the City's Public Information Office.

Mitigation Action 2:

Property owners should not store personal property in basements and crawl spaces since personal property is not covered by a flood insurance policy. The City will increase its outreach efforts on an annual basis to include information to the outreach materials for the identified repetitive loss areas.

Responsibility

The City’s Development Services Department will provide the most relevant up-to-date information to all property owners within the repetitive loss areas located in General Area 1.

Funding

The cost will be paid for from the City’s operating budget through the Development Services Department.

City of Savannah 2020 Action

** As part of the letter that is sent to the 412 structures in General Area 1 provides the informational facts that flood insurance has limitations. Policy holders need to learn what items will not be covered, particularly if the claimed items are below that BFE. The information flyers promote sump pumps and backwater valves in the basement.
** COS is currently updating the Flood Damage Prevention Ordinance, the draft specifically mention air conditioning crawl space is prohibited.
** Several outreaches to the schools STEM Nights where Students and parents attend. Use the Ward's Stormwater Floodplain Simulation Model showing how development can cause flooding. At each event we have the 330 outreach that specifically details property protection

Mitigation Action 3:

When appropriate, property owners should consider flood proofing measures such as flood gates or shields, flood walls, and hydraulic pumps.

Responsibility

The City’s Development Services Department will promote effective flood protection measures and provide advice and assistance to property owners who may wish to implement such measures in an on-going program.

Funding

The cost will be paid for by individual property owners. Advice and assistance will require staff time. Promotion of existing floodproofing measures may require some additional funds from the City’s operating budget.

City of Savannah 2020 Action

** COS suggest simple projects property owners can perform to protect their home from rising water through the letter sent to the RLA properties, mailers to the SFHA buildings, newspaper advertisements, and COS website. COS also promotes “on site visit” in all flood determination letters.

** Each year the City’s Floodplain Manager and Stormwater Department personnel attends outreach functions such as Earth Day, Hurricane Expo, and neighborhood meetings promoting on site evaluations and flood protection measures.

** COS completed outreaches at Heard Elementary and GIS Day where students learned about flood protection measures. The thought is that the students will share the outreach publications and information with their parents. Some of the live outreaches were canceled due to COVID 19, but we shifted tactics and were interviewed by local TV station WSAV twice to promote flood awareness and tips on protecting personal property.

Mitigation Action 4:

Continue acquisition/demolition mitigation of high-risk flood-prone properties. The highest priorities are properties at the greatest flood risk and where drainage improvements will not provide an adequate level of protection.

Responsibility

The City’s Real Property Services in conjunction with the Development Services Department will continue to target properties for acquisition/demolition.

Funding

The acquisition and demolition will be paid for using FEMA mitigation grant funds. Staff time to develop the list of target properties will require funds from the City’s operating budget.

City of Savannah 2020 Action

** Lynette Allen, Real Estate Services and Tom McDonald, COS Floodplain Manager, maintain a list of properties that building owners have inquired for the City to purchase their homes. As grants become available, the list is sent to the Real Estate Services' Director to be included as possible candidates. * In 2020 no owners in Area 1 contacted Lynette Allen or Tom McDonald for potential buy-out

** There is currently four structures in Area 1 on the City's maintained list that owners have requested the City to purchase.

** Last Active buy out was completed in 2015 which the COS purchased ten (10) houses funded by either PDM or HMGP grants. Five of the ten structures purchased are in General Area 1. In 2020 no structures were purchased.

HMGP & PDM BUYOUT: 5

Mitigation Action 5:

Prioritize CIP projects to focus on drainage improvement projects in those basins containing repetitive loss areas.

Responsibility

The City's Development Services Department in conjunction with CIP Management.

Funding

Special Purpose Local Option Sales Tax (SPLOST) funds.

City of Savannah 2020 Action

The City has over \$300 Million CIP projects that will address of improvements focused upon structural flooding remain unfunded. The City will continue to evaluate flooding throughout the City and maintain the over 1,700 Flooded Structure database. The City's Flood Damage Prevention Ordinance requires structures that are on the Flooded Structures Database and outside the SFHA to adhere to the Substantial Improvement requirement.

2018 Activity: On August 31, 2017 City Council approved the City's Strategic Plan that sets Goals and Action Items.

1. By 2025, the City of Savannah will reduce by 25% structure flooding resulting from a 25-year

rain event (8 inches of rain within a 24-hour period).

2. By 2025, the City of Savannah will experience a 5% reduction in street flooding resulting

from a 25-year rain event (4.9" inches of rain within a 2-hour period)

2020 Activity: The city has several CIP projects that are in various state of activity that include pipe upgrades and local basin studies. See attached Summary of CAPITAL IMPROVEMENT PROGRAM Quarterly Status Report: 1st Quarter 2020. See items #1- #6, #8 - #10, and #12

Mitigation Action 6:

Encourage property owners to elevate inside and outside mechanical equipment above the BFE and install flood resistant materials in crawl spaces.

Responsibility

The City's Development Services Department will promote effective flood protection measures and provide advice and assistance to property owners who may wish to implement such measures in an on-going program.

Funding

The cost will be paid for by individual property owners. Advice and assistance will require staff time. Promotion of existing floodproofing measures may require some additional funds from the City's operating budget.

City of Savannah 2020 Action

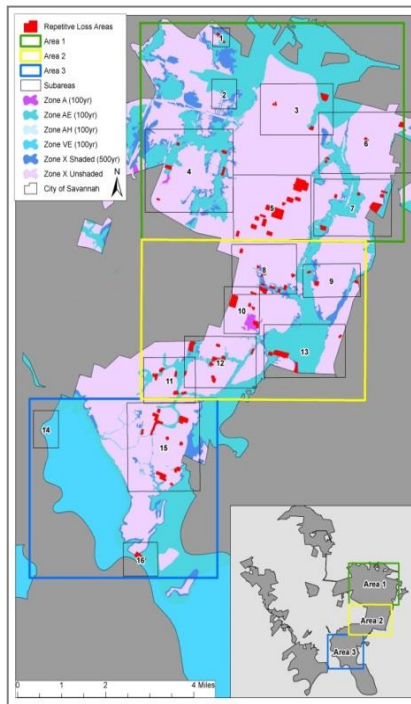
When permit come in that are within the SFHA or known flooded areas, I encourage owner's to lift the units off the ground and remove the duct system out from under the house. I have pictures of several incidences where the owners did elevate the mechanical systems.

The COS continues to provide flood protection advice through outreach literature and public events (as referenced in previous City Actions) that advise on elevating equipment and retrofitting their homes from the adverse effects of flooding.

**** End of General Area 1 ****

City of Savannah 2020

510 Repetitive Loss Area Analyses RLAA General Area 2



Conclusion and Recommendations - General Area 2

Conclusion

Based on the field survey and collection of data, the analysis of existing studies and reports, and the evaluation of various structural and non-structural mitigation measures, the City of Savannah proposes that mitigation measures be implemented for General Area 2. Table 30 examines past and current mitigation actions in this area.

Past and Current Mitigation Actions in General Area 2

Current Actions

1	Property owners have documented flooding and identified flooding concerns in returned questionnaires from this analysis.
2	The City has eliminated 3 properties from the repetitive loss list through acquisition and demolition. Many of these areas have been converted to community gardens which have proven to be very popular in the City.
3	Property owners are aware of flooding causes. Some property owners have undertaken specific floodproofing measures at their own expense.
4	City has undertaken costly capital improvement projects to improve drainage within this Area.

Recommendations

The City will encourage property owners to use floodproofing measures to help protect lower levels of their property. The City will also increase its public education efforts to increase awareness of flood preparedness and flood protection measures including moving valuable items to above the flood elevation and permanently elevating vulnerable HVAC units. At the same time, the City will work with property owners, citizens, neighboring communities, the state and other regional and federal agencies to implement capital improvement projects which will help to eliminate flooding in the repetitive loss areas.

Mitigation Action 1:

Property owners should obtain and keep a flood insurance policy on their structures (building and contents coverage). The City will continue on an annual basis to target all properties in the repetitive loss areas

reminding them of the advantages to maintaining flood insurance through its annual outreach effort.

Responsibility

The City's Development Services Department will provide the most relevant up-to-date flood insurance information to all property owners within the repetitive loss areas located in General Area 2.

Funding

The cost will be paid for from the City's operating budget through the Development Services Department.

City of Savannah 2020 Action

** On September 13, 2019, City of Savannah (COS) mailed out 253 letters to residence of the General Area 2. The letter provides advice on elevating equipment and retrofitting their homes from the effects of flooding. Other topics include funding opportunities through grants, to include ICC and flood insurance.

** Additionally, in December 8, 2019 the City of Savannah and Chatham County governments contracted Morning News to deliver a six full page advertisement promoting a multiple topics of flood The library has the FIRM maps and additional documents pertaining to flood plain management topics. DFIRMs can be viewed at www.sagis.org. If you would like further information on flooding, on site visit to discuss flood protection measures, flood insurance, ICC, FEMA grants, building permits, substantial Damage, flood zones, retrofitting, elevation certificates, how to pick a contractor, a 30-day activation waiting period, property damaged by a flood greater than that predicted on the FIRM or from local drainage problem not shown on the map and homeowner's insurance may not cover flood damage. The informational publication is free and delivered to each over 90% of residence and business in the area. (The COS is currently set up the next publication to go out in late October 2020).

** On January 3, 2020 a 11" X 17.5""", doubled sided publication was sent to all structures in the SFHA within this "AREA". The publication used to be referred to as an OPF outreach that cover 10 CRS topics which include: Local flooding Hazards, Personal Safety Facts, Flood Insurance, Property Protection, Natural Beneficial Functions of the Floodplain, Flood Warning System, Permit Requirements, Substantial Improvement Requirements, Drainage System Maintenance, and Local Contact for more information. The back side provides a 1"=1 mile scale area map of the flood zones and flooded properties. ** In order to have an up-to-date and affective outreach, COS has requested the University of Georgia to review the flyer. Mrs. Jill Gambill, Coastal Resilience Specialist and Public Service Assistant of University of Georgia Marine Extension and Georgia Sea Grant, reviews the flyer for

comments. Additionally, Mrs. Carol Miller of the City's Public Information Office.

Mitigation Action 2:

Property owners should not store personal property in basements and crawl spaces since personal property is not covered by a flood insurance policy. The City will increase its outreach efforts on an annual basis to include information to the outreach materials for the identified repetitive loss areas.

Responsibility

The City's Development Services Department will provide the most relevant up-to-date information to all property owners within the repetitive loss areas located in General Area 2.

Funding

The cost will be paid for from the City's operating budget through the Development Services Department.

City of Savannah 2020 Action

** As part of the letter that is sent to the 253 structures in General Area 2 provides the informational facts that flood insurance has limitations. Policy holders need to learn what items will not be covered, particularly if the claimed items are below that BFE. The information flyers promote sump pumps and backwater valves in the basement.

** COS is currently updating the Flood Damage Prevention Ordinance, the draft specifically mention conditioning crawl space is prohibited

** Several outreaches to the schools STEM Nights where Students and parents attend. Use the Ward's Stormwater Floodplain Simulation Model showing how development can cause flooding. At each event we have the 330 outreach that specifically details property protection

Mitigation Action 3:

When appropriate, property owners should consider flood proofing measures such as flood gates or shields, flood walls, hydraulic pumps, and the use of flood resistant materials in crawl spaces.

Responsibility

The City's Development Services Department will promote effective flood protection measures and provide advice and assistance to property owners who may wish to implement such measures in an on-going program.

Funding

The cost will be paid for by individual property owners. Advice and assistance will require staff time. Promotion of existing floodproofing measures may require some additional funds from the City's operating budget.

City of Savannah 2020 Action

** COS suggest simple projects property owners can perform to protect their home from rising water through the letter sent to the RLA properties, mailers to the SFHA buildings, newspaper advertisements, and COS website. COS also promotes "on site visit" in all flood determination letters.

** Each year the City's Floodplain Manager and Stormwater Department personnel attends outreach functions such as Earth Day, Hurricane Expo, and neighborhood meetings promoting on site evaluations and flood protection measures.

** COS completed outreaches at Heard Elementary and GIS Day where students learned about flood protection measures. The thought is that the students will share the outreach publications and information with their parents.

Some of the live outreaches were canceled due to COVID 19, but we shifted tactics and were interviewed by local TV station WSAV twice to promote flood awareness and tips on protecting personal property.

Mitigation Action 4:

Continue acquisition/demolition mitigation of high-risk flood-prone properties. The highest priorities are properties at the greatest flood risk and where drainage improvements will not provide an adequate level of protection.

Responsibility
The City's Real Property Services in conjunction with the Development Services Department will continue to target properties for acquisition/demolition.

Funding
The acquisition and demolition will be paid for using FEMA mitigation grant funds. Staff time to develop the list of target properties will require funds from the City's operating budget.

City of Savannah 2020 Action

<p>** Lynette Allen, Real Estate Services and Tom McDonald, COS Floodplain Manager, maintain a list of properties that building owners have inquired for the City to purchase their homes. As grants become available, the list is sent to the Real Estate Services' Director to be included as possible candidates. *</p> <p>In 2020 no owners in Area 2 contacted Lynette Allen or Tom McDonald for potential buy-out</p> <p>** There is currently no structure in Area 2 on the City's maintained list that owners have requested the City to purchase.</p> <p>** Last Active buy out was completed in 2015 which the COS purchased ten (10) houses funded by either PDM or HMGP grants. Three of the ten structures purchased are in General Area 2. In 2020 no structures were purchased.</p>
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HMGP & PDM BUYOUT: 3

Mitigation Action 5:

Prioritize CIP projects to focus on drainage improvement projects in those basins containing repetitive loss areas.

Responsibility
The City's Development Services Department in conjunction with CIP Management.

Funding
Special Purpose Local Option Sales Tax (SPLOST) funds.

City of Savannah 2020 Action

The City has over \$300 Million CIP projects that will address of improvements focused upon structural flooding remain unfunded. The City will continue to evaluate flooding throughout the City and maintain the over 1,700 Flooded Structure database. The City's Flood Damage Prevention Ordinance requires structures that are on the Flooded Structures Database and outside the SFHA to adhere to the Substantial Improvement requirement.

2018 Activity: On August 31, 2017 City Council approved the City's Strategic Plan that sets Goals and Action Items.

1. By 2025, the City of Savannah will reduce by 25% structure flooding resulting from a 25-year rain event (8 inches of rain within a 24-hour period).
2. By 2025, the City of Savannah will experience a 5% reduction in street flooding resulting from a 25-year rain event (4.9" inches of rain within a 2-hour period)

2020 Activity: The city has several CIP projects that are in various state of activity that include pipe upgrades and local basin studies. See attached Summary of CAPITAL IMPROVEMENT PROGRAM Quarterly Status Report: 1st Quarter 2020. See items #3, #5, #7, #8, and #11

Mitigation Action 6:

Encourage property owners to elevate inside and outside mechanical equipment above the BFE and install flood resistant materials in crawl spaces.

Responsibility

The City's Development Services Department will promote effective flood protection measures and provide advice and assistance to property owners who may wish to implement such measures in an on-going program.

Funding

The cost will be paid for by individual property owners. Advice and assistance will require staff time. Promotion of existing floodproofing measures may require some additional funds from the City's operating budget.

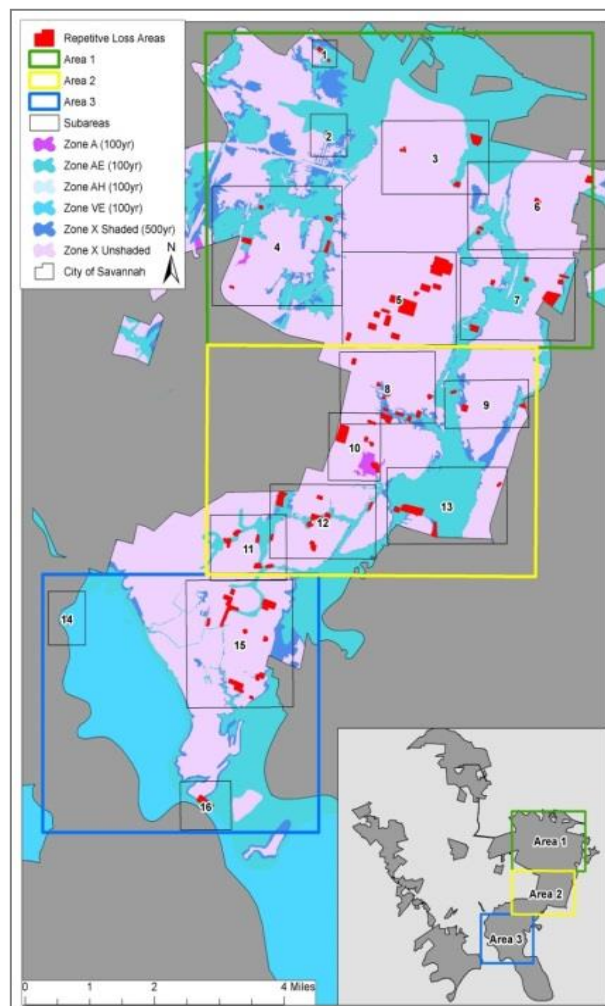
City of Savannah 2020 Action

When permit come in that are within the SFHA or known flooded areas, I encourage owner's to lift the units off the ground and remove the duct system out from under the house. I have pictures of several incidences where the owners did elevate the mechanical systems.

The COS continues to provide flood protection advice through outreach literature and public events (as referenced in previous City Actions) that advise on elevating equipment and retrofitting their homes from the adverse effects of flooding.

**** End of General Area 2 ****

City of Savannah 2020 510 Repetitive Loss Area Analyses RLAA General Area 3



Conclusion and Recommendations - General Area 3

Conclusion

Based on the field survey and collection of data, the analysis of existing studies and reports, and the evaluation of various structural and non-structural mitigation measures, the City of Savannah proposes that mitigation measures be implemented for General Area 3. Table 41 examines past and current mitigation actions in this area.

Past and Current Mitigation Actions in General Area 3

Current Actions

1	Property owners have documented flooding and identified flooding concerns in returned questionnaires from this analysis.
2	The City has eliminated 24 properties from the repetitive loss list through acquisition and demolition. Many of these areas have been converted to community gardens which have proven to be very popular in the City.
3	Property owners are aware of flooding causes. Some property owners have undertaken specific floodproofing measures at their own expense.
4	City has undertaken costly capital improvement projects to improve drainage within this Area.

Recommendations

The City will encourage property owners to use floodproofing measures to help protect lower levels of their property. The City will also increase its public education efforts to increase awareness of flood preparedness and flood protection measures including moving valuable items to above the flood elevation and permanently elevating structures and vulnerable HVAC units. At the same time, the City will work with property owners, citizens, neighboring communities, the state and other regional and federal agencies to implement capital improvement projects which will help to eliminate flooding in the repetitive loss areas.

Mitigation Action 1:

Property owners should obtain and keep a flood insurance policy on their structures (building and contents coverage). The City will continue on an annual basis to target all properties in the repetitive loss areas reminding them of the advantages to maintaining flood insurance through its annual outreach effort.

Responsibility

The City’s Development Services Department will provide the most relevant up-to-date flood insurance information to all property owners within the repetitive loss areas located in General Area 3.

Funding

The cost will be paid for from the City’s operating budget through the Development Services Department.

City of Savannah 2020 Action

** On September 13, 2019, City of Savannah (COS) mailed out 186 letters to residence of the General Area 3. The letter provides advice on elevating equipment and retrofitting their homes from the effects of flooding. Other topics include funding opportunities through grants, to include ICC and flood insurance.

** Additionally, in December 8, 2019 the City of Savannah and Chatham County governments contracted Morning News to deliver a six full page advertisement promoting a multiple topics of flood

The library has the FIRM maps and additional documents pertaining to flood plain management topics. DFIRMs can be viewed at www.sagis.org. If you would like further information on flooding, on site visit to discuss flood protection measures, flood insurance, ICC, FEMA grants, building permits, substantial Damage, flood zones, retrofitting, elevation certificates, how to pick a contractor, a 30-day activation waiting period, property damaged by a flood greater than that predicted on the FIRM or from local drainage problem not shown on the map and homeowner’s insurance may not cover flood damage. The informational publication is free and delivered to each over 90% of residence and business in the area. (The COS is currently set up the next publication to go out in late October 2020).

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Mitigation Action 2:

Property owners should not store personal property in basements and crawl spaces since personal property is not covered by a flood insurance policy. The City will increase its outreach efforts on an annual basis to include information to the outreach materials for the identified repetitive loss areas.

Responsibility

The City's Development Services Department will provide the most relevant up-to-date information to all property owners within the repetitive loss areas located in General Area 3.

Funding

The cost will be paid for from the City's operating budget through the Development Services Department.

City of Savannah 2020 Action

** As part of the letter that is sent to the 253 structures in General Area 2 provides the informational facts that flood insurance has limitations. Policy holders need to learn what items will not be covered, particularly if the claimed items are below that BFE. The information flyers promote sump pumps and backwater valves in the basement.

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When appropriate, property owners should consider flood proofing measures such as flood gates or shields, flood walls, and hydraulic pumps.

Responsibility

The City's Development Services Department will promote effective flood protection measures and provide advice and assistance to property owners who may wish to implement such measures in an on-going program.

Funding

The cost will be paid for by individual property owners. Advice and assistance will require staff time. Promotion of existing floodproofing measures may require some additional funds from the City’s operating budget.

City of Savannah 2017 Action

** COS suggest simple projects property owners can perform to protect their home from rising water through the letter sent to the RLA properties, mailers to the SFHA buildings, newspaper advertisements, and COS website. COS also promotes “on site visit” in all flood determination letters.

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Mitigation Action 4:

Continue acquisition/demolition mitigation of high-risk flood-prone properties. The highest priorities are properties at the greatest flood risk and where drainage improvements will not provide an adequate level of protection.

Responsibility

The City’s Real Property Services in conjunction with the Development Services Department will continue to target properties for acquisition/demolition.

Funding

The acquisition and demolition will be paid for using FEMA mitigation grant funds. Staff time to develop the list of target properties will require funds from the City’s operating budget.

City of Savannah 2020 Action

** Lynette Allen, Real Estate Services and Tom McDonald, COS Floodplain Manager, maintain a list of properties that building owners have inquired for the City to purchase their homes. As grants become available, the list is sent to the Real Estate Services' Director to be included as possible candidates. * In 2020 no owners in Area 3 contacted Lynette Allen or Tom McDonald for potential buy-out

** There is currently one structure that is closest to Area 3 on the City's maintained list that owners have requested the City to purchase.

** Last Active but out was completed in 2015 which the COS purchased ten (10) houses funded by either PDM or HMGP grants. Two of the ten structures purchased are in General Area 3. In 2017 no structures were purchased

HMGP & PDM BUYOUT: 2

Mitigation Action 5:

Prioritize CIP projects to focus on drainage improvement projects in those basins containing repetitive loss areas.

Responsibility

The City's Development Services Department in conjunction with CIP Management.

Funding

Special Purpose Local Option Sales Tax (SPLOST) funds.

City of Savannah 2020 Action

The City has over \$300 Million CIP projects that will address of improvements focused upon structural flooding remain unfunded. The City will continue to evaluate flooding throughout the City and maintain the over 1,700 Flooded Structure database. The City's Flood Damage Prevention Ordinance requires structures that are on the Flooded Structures Database and outside the SFHA to adhere to the Substantial Improvement requirement.

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2. By 2025, the City of Savannah will experience a 5% reduction in street flooding resulting from a 25-year rain event (4.9" inches of rain within a 2-hour period)

2020 Activity: The city has several CIP projects that are in various state of activity that include pipe upgrades and local basin studies. See attached Summary of CAPITAL IMPROVEMENT PROGRAM Quarterly Status Report: 1st Quarter 2020. See items #3, #5, and #8

Mitigation Action 6:

Encourage property owners to elevate inside and outside mechanical equipment above the BFE and install flood resistant materials in crawl spaces.

Responsibility

The City's Development Services Department will promote effective flood protection measures and provide advice and assistance to property owners who may wish to implement such measures in an on-going program.

Funding

The cost will be paid for by individual property owners. Advice and assistance will require staff time. Promotion of existing floodproofing measures may require some additional funds from the City's operating budget

City of Savannah 2020 Action

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The COS continues to provide flood protection advice through outreach literature and public events (as referenced in previous City Actions) that advise on elevating equipment and retrofitting their homes from the adverse effects of flooding.

**** End of General Area 3 ****



Summary

CAPITAL IMPROVEMENT PROGRAM

Quarterly Status Report: 1st Quarter 2020

#1

RLAA AREA: 1

Status: Completed

Project: Drainage Box Rehabilitations - DR0131

Location: Bolton (E. Broad to Bilbo Canal & Kayton Outfall)

Cost: \$2,461,051.10

Description: Lining of structures to extend lives of 102" brick line in Bolton Street, and to line the twin box culverts of Kayton Outfall to river, which facilitate effluent outfall from the President Street Plant

#2

RLAA AREA: 1

Status: Under Design

Project: Placentia Basin Drainage Improvements - DR0132

Location: South side of DeRenne between Skidaway and LaRoche

Cost: \$625,392.69

Description: To increase conveyance capacity of the Placentia Canal to reduce structural and street flooding within the basin Sunset Boulevard Culvert Replacement design completed and posted for bid. Pre-bid meeting held, and two bids received. Bids currently under DBE compliance review. City plans to award this project in April and complete by end of Summer 2020. EMC continues to finalize North and South Tompkins culvert replacement plans. Draft plans have been received by City staff for review. Construction is planned for late Summer or Fall 2020. In addition, City staff have initiated planning for LaRoche and Semken Road Culvert Replacement with site surveying and geotechnical analysis. Construction of this project is planned for 2021

#3

RLAA AREA: 1,2,3

Status: On going

Project: Storm Sewer Rehabilitation - DR0133

Location: City-wide

Cost: \$3,513,743.43

Description: Rehabilitate deteriorating storm drains Several minor cave-ins were addressed thru this project leveraging the annual contractor to effect repairs.

#4

RLAA AREA: 1

Status: Active, On going

Project: Public Permeable Paver Program - DR0134

Location: Downtown

Cost: \$91,059.60

Description: This project creates water quality stormwater management units for purchase by developers in the Bilbo basin, downtown. City streets get rehabilitated with the Permeable Paver Program on a just in time schedule as developers use the program to purchase water quality credits, in the hard to develop historic downtown area.



Summary

CAPITAL IMPROVEMENT PROGRAM

Quarterly Status Report: 1st Quarter 2020

No activity occurred during the first quarter of 2020. Price changes under the Revenue Ordinance adopted as part of the 2020 budget process has increased interest among developers. This project allows developers in the Bilbo basin, downtown, to purchase credits in regional stormwater management units in the form of permeable pavers, in lieu of installing Green Infrastructure/Low Impact Development in zero lot line historic district areas, while enabling repaving of City streets downtown. This project is fully funded by developer contributions.

#5

RLAA AREA: 1,2,3

Status: Inactive at this time

Project: Developer Oversizing/Mitigation - DR0307

Location: Locations to be identified

Cost: \$25,000.00

Description: To oversize stormwater pipes in new development areas to increase floodplain Protection Funds earmarked for future regional stormwater improvements, in lieu of partially upsizing structures that will need to be further upsized later. No contributions or disbursement for several years

#6

RLAA AREA: 1

Status: Under Construction

Project: Bilbo Box Culvert Improvements - DR0308

Location: E. President St.

Cost: \$24,996,818.08

Description: To improve storm water flow through the Bilbo Canal and outfall to the Savannah River

Orion Marine has mobilized and initiated final work on Riverwalk Repair/Load Transfer Platform with significant progress. Orion has excavated required area, driven temporary and permanent sheet piles, removed canal bridge approach concrete and driven all h-piles. Structural fill is being placed along with light weight aggregate and cellular concrete. In February Council approved a property swap with Eastern Wharf developer for future Canal Access easement and Sewer Lift Station site for City's parcel adjacent to canal. Plats and legal descriptions for these areas are being compiled. City is also finalizing plats for access easement at north end of new Foundry St.

#7

RLAA AREA: 2

Status: Compete

Project: DeRenne Pump Station Improvements - DR0402

Location: DeRenne Pump Station

Cost: \$524,505.86

Description: Controls upgrade at the DeRenne Stormwater Pump Station in order to replace old equipment for which replacement parts are unavailable. Replacement equipment to include programmable controller, sensors, integration with Emerson SCADA system, while maintaining ability to pump water during rainfall events during installation/start up. Project operationally complete.



Summary

CAPITAL IMPROVEMENT PROGRAM

Quarterly Status Report: 1st Quarter 2020

#8

RLAA AREA: 1,2,3

Status: **Inactive**

Project: Brick Line Replacement - DR0505

Location: City-wide

Cost: \$286,764.81

Description: Annual CIP to fund necessary replacement/rehabilitation of deteriorating aging brick storm lines with concrete pipe or structural liner. Projects to date have addressed point failures on brick lines primarily in the Historic District. As the failures crop up unexpectedly, the annual fund was set up to have an account available for the rehabilitations.

Although this is an annual fund to keep up with necessary repairs to aging brick lines, it has not received any contributions for several budget years. This project was set up as an annual fund to accumulate funding for Brick Line Replacements/Lining as needed for replacements. Brick lines are the oldest stormlines the City maintain

#9

RLAA AREA: 1

Status: **Completed**

Project: Drainage Hutchinson Island - DR0506

Location: Hutchinson Island

Cost: \$339,846.40

Description: To fund street lighting (primary objective), as built revisions and infrastructure improvements on Hutchinson Island.

Following bankruptcy of residential subdivision developer, the City seized the completion bond to fund drainage system failures due to settlement and to complete uninstalled streetlights. The two projects were DR-506 for the drainage and TE-513 for the lights. The drainage system repairs have been completed. Since the funding source is a seized bond, it would be best to keep the funding dedicated to the same physical location. As such, recommend closure with funds transferred to TE-513.

#10

RLAA AREA: 1

Status: **Design - Ongoing**

Project: Springfield Drainage Improvements - DR0905

Location: Savannah River to I 516, MLK to Chatham Parkway

Cost: \$500,414.29

Description: **To make drainage improvements in the Springfield basin**

City and Thomas and Hutton coordinated on additional services to analysis the lower Springfield Canal existing alignment for improved 100-year storm conveyance. Conceptual exhibits were created and opinion of probable cost produced resulting in an improved vertical sheet pile wall 100' wide channel and large new stormwater pump station adjacent to the existing station. City staff continue to conceptualize the scale of improvements and funding mechanism. Staff is also focused on improvements within the lower Springfield Canal - Canal District. Improvements to the canal consisting of widening to 100' in this area will provide additional storage and conveyance capacity within the drainage basin as well.



Summary

CAPITAL IMPROVEMENT PROGRAM

Quarterly Status Report: 1st Quarter 2020

11

RLAA AREA: 2

Status: Design – On going

Project: Casey South Drainage Improvements Phase II - DR0911

Location: 55th St to North, Harmon to East, 63rd St to South, and Abercorn to West

Cost: \$1,920,348.82

Description: To increase drainage capacity in the Casey South basin.

City's consultant Thomas and Hutton continue to finalize design drawings. City staff have reviewed 60% plans and performed field determinations of identified challenges and existing utility obstacles to provide Thomas and Hutton with comments and revisions.

#12

RLAA AREA: 1

Status: Inactive

Project: Heritage Street Detention Pond - OP0147

Location: Heritage Street

Cost: \$2,550.00

Description: Retention Pond Construction on Heritage Street. Constructing a stormwater pond on this property would remove buried construction debris and improve drainage for a flood-prone area on Vasser Street.

This project was never funded enough to begin permitting, let alone to perform any construction. Recommend closure with remaining funds being reallocated to the Springfield Basin improvements in order to assure the funds are used for drainage in the same general area.

End of Report
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