Drainage Master Plan Update

Project: CC01 - Carter Erosion- University to Briarcrest

Project Type: Erosion ***Drainage CIP Ranking:*** 122 ***Existing Study:*** Yes ***TxDot:*** No

Date Identified: 2004 ***Total Weighted Score:*** 76 ***Panel #:*** Q13

Date Last Reported: ***Project Cost:*** $6,670,000 ***Council District:*** 3

Original Cost Year: 2010 ***Study File Name:*** Flood Management Assessment

Description:

This project includes a study and design of approximately 14,500 LF of channel. The area is heavily vegetated but is relatively undeveloped. There is opportunity to incorporate Rosgen techniques to prevent future erosion and take into account future development in the area.

Justification:

Carter Creek is eroding from University to Briarcrest as a result of upstream hydrology changing. This section of Carter Creek is undeveloped. Velocities range from 1.37 to 12.31 feet per second.

Funding Options:

Funding Source Summary:

Type	Original	Source	2011	2012	2013	2014	2015
Stormwater	$870,000	Stormwater	$0	$0	$0	$0	$0
Design/Survey	**$870,000**		**$0**	**$0**	**$0**	**$0**	**$0**
Stormwater	$5,800,000	Stormwater	$0	$0	$0	$0	$0
Const	**$5,800,000**		**$0**	**$0**	**$0**	**$0**	**$0**
Total	**$6,670,000**		**$0**	**$0**	**$0**	**$0**	**$0**

Ranking Criteria

Life Safety:	0	**Street Flooding:**	0	**Infrastructure Damage:**	4	**Maintenance:**	0
Structures Flooding:	0	**Frequency of Flooding:**	0	**Funding Source:**	0	**Project Cost:**	0
Right-of-Way Availability:	0						

Drainage Master Plan Update

Project: CC02 - Green Valley Road Overtopping

Project Type: Flooding ***Drainage CIP Ranking:*** 40 ***Existing Study:*** No ***TxDot:*** No

Date Identified: 2009 ***Total Weighted Score:*** 725 ***Panel #:*** O13

Date Last Reported: ***Project Cost:*** $460,000 ***Council District:*** 3

Original Cost Year: 2010 ***Study File Name:*** Carters Creek Flood Hazard Study

Description:

This overtopping is allowed for culverts (SECTION VI.F.c.(2)), but not for streets (SECTION VI.A.3.(2)) as per Bryan/College Station Design Guidelines. For this project, Green Valley Road culverts need to be upsized or/and the road elevated to pass the100-year storm.

Justification:

Delineated flood plain from the June 2009 Upper Carters Creek Master Flood Study and Master Drainage Plan overtops Green Valley Road with the occurrence of less than a 10-year storm. The flood plain depicts 1.27 feet overtopping Green Valley during the 100-year storm.

Funding Options:

Funding Source Summary:

Type	Original	Source	2011	2012	2013	2014	2015
Stormwater	$60,000	Stormwater	$0	$0	$0	$0	$0
Design/Survey	**$60,000**		**$0**	**$0**	**$0**	**$0**	**$0**
Stormwater	$400,000	Stormwater	$0	$0	$0	$0	$0
Const	**$400,000**		**$0**	**$0**	**$0**	**$0**	**$0**
Total	**$460,000**		**$0**	**$0**	**$0**	**$0**	**$0**

Ranking Criteria

Life Safety:	8	**Street Flooding:**	2	**Infrastructure Damage:**	7	**Maintenance:**	0
Structures Flooding:	3	**Frequency of Flooding:**	7	**Funding Source:**	0	**Project Cost:**	7
Right-of-Way Availability:	10						

Drainage Master Plan Update

Project: CC03 - Briarcrest Road Overtopping - FNI

Project Type: Flooding ***Drainage CIP Ranking:*** 32 ***Existing Study:*** No ***TxDot:*** Yes

Date Identified: 2009 ***Total Weighted Score:*** 784 ***Panel #:*** O12

Date Last Reported: ***Project Cost:*** $287,500 ***Council District:*** 3

Original Cost Year: 2010 ***Study File Name:*** Carters Creek Flood Hazard Study

Description:

Briarcrest bridge crosses Carter Creek and is approximately 220 feet long. Detailed survey and hydraulic analysis needs to be done at the bridge. The bridge and approach should be surveyed and compared to the model to ensure Briarcrest is not overtopped in a 100-year storm. This project includes modifications necessary to pass the 100-year storm event.

Justification:

The north approach to Briarcrest, FM 1179, is overtopped 0.76 feet by the 100-year storm and begins flooding during the 50-year storm. Seven (7) houses lie in the floodplain upstream of the culvert. FM 1179 is a TxDOT ROW.

Funding Options:

Funding Source Summary:

Type	Original	Source	2011	2012	2013	2014	2015
Stormwater	$37,500	Stormwater	$0	$0	$0	$0	$0
Design/Survey	**$37,500**		**$0**	**$0**	**$0**	**$0**	**$0**
Stormwater	$250,000	Stormwater	$0	$0	$0	$0	$0
Const	**$250,000**		**$0**	**$0**	**$0**	**$0**	**$0**
Total	**$287,500**		**$0**	**$0**	**$0**	**$0**	**$0**

Ranking Criteria

Life Safety:	7	**Street Flooding:**	7	**Infrastructure Damage:**	4	**Maintenance:**	2
Structures Flooding:	10	**Frequency of Flooding:**	2	**Funding Source:**	0	**Project Cost:**	8
Right-of-Way Availability:	8						

Drainage Master Plan Update

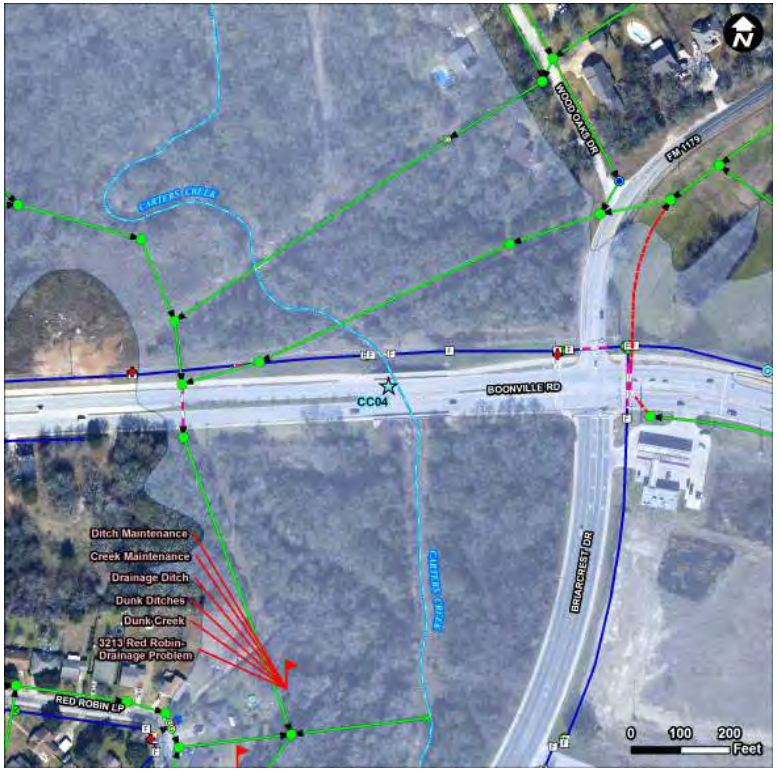
Project: CC04 - Boonville Road Overtopping - FNI

Project Type: Flooding ***Drainage CIP Ranking:*** 15 ***Existing Study:*** No ***TxDot:*** No

Date Identified: 2009 ***Total Weighted Score:*** 863 ***Panel #:*** O12

Date Last Reported: ***Project Cost:*** $517,500 ***Council District:*** 3

Original Cost Year: 2010 ***Study File Name:*** Carters Creek Flood Hazard Study



Description:

This project requires a study to determine improvements to Boonville Bridge. Boonville crosses Carter Creek and is approximately 160 feet long.

Justification:

Carter Creek overtops Boonville Road to a depth of 1.21 feet during the 100-year storm event and begins flooding during the 50-year storm. Eighty (80) houses lie in the floodplain upstream of the culvert.

Funding Options:

Funding Source Summary:

Type	Original	Source	2011	2012	2013	2014	2015
Stormwater	$67,500	Stormwater	$0	$0	$0	$0	$0
Design/Survey	**$67,500**		**$0**	**$0**	**$0**	**$0**	**$0**
Stormwater	$450,000	Stormwater	$0	$0	$0	$0	$0
Const	**$450,000**		**$0**	**$0**	**$0**	**$0**	**$0**
Total	**$517,500**		**$0**	**$0**	**$0**	**$0**	**$0**

Ranking Criteria

Life Safety:	8	**Street Flooding:**	7	**Infrastructure Damage:**	4	**Maintenance:**	0
Structures Flooding:	10	**Frequency of Flooding:**	7	**Funding Source:**	0	**Project Cost:**	7
Right-of-Way Availability:	10						

Drainage Master Plan Update

Project: CC05 - Oak Forest Estates Flooding - FNI

Project Type: Flooding
Drainage CIP Ranking: 79
Existing Study: No
TxDot: No
Date Identified: 2010
Total Weighted Score: 484
Panel #: O12
Date Last Reported:
Project Cost: $50,000
Council District: 3
Original Cost Year: 2010
Study File Name:

Description:

There is currently not a study of this area. A masterplan is being proposed to help identify deficiencies and propose improvements. Alternatives for this project could include regional detention or channel improvements to remove the houses from the floodplain.

Justification:

Seven houses are located in the Carter Creek Floodplain in Oak Forest Estates.

Funding Options:

Funding Source Summary:

Type	Original	Source	2011	2012	2013	2014	2015
Stormwater	$50,000	Stormwater	$0	$0	$0	$0	$0
Design/Survey	**$50,000**		**$0**	**$0**	**$0**	**$0**	**$0**
Total	**$50,000**		**$0**	**$0**	**$0**	**$0**	**$0**

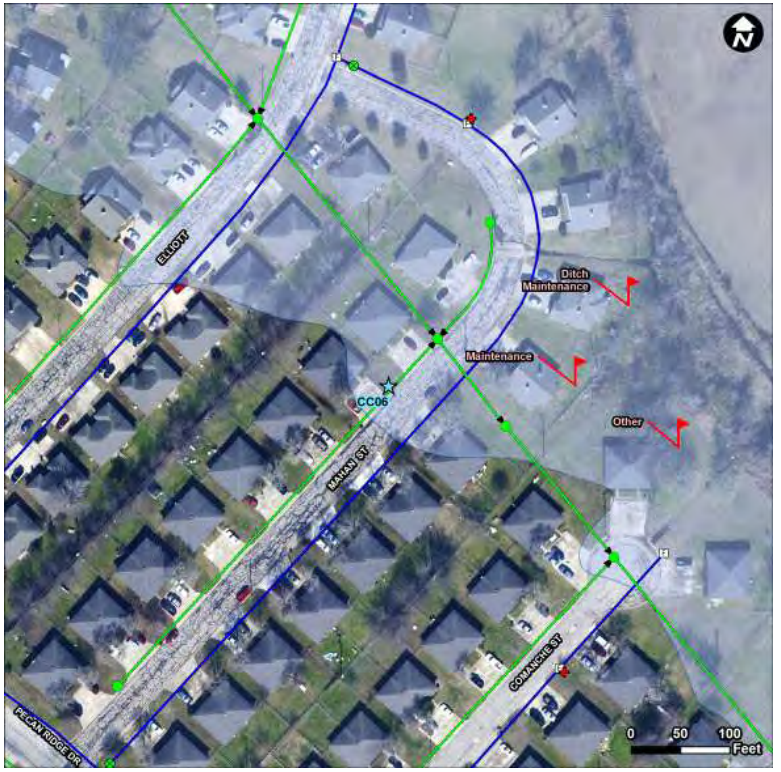
Ranking Criteria

Life Safety:	0	**Street Flooding:**	0	**Infrastructure Damage:**	4	**Maintenance:**	2
Structures Flooding:	10	**Frequency of Flooding:**	1	**Funding Source:**	0	**Project Cost:**	10
Right-of-Way Availability:	3						

Drainage Master Plan Update

Project: CC06 - Pecan Ridge Subdivision Flooding - FNI

Project Type: Flooding
Drainage CIP Ranking: 69
Existing Study: No
TxDot: No
Date Identified: 2010
Total Weighted Score: 614
Panel #: O12
Date Last Reported:
Project Cost: $50,000
Council District: 3
Original Cost Year: 2010
Study File Name:



Description:

There is currently not a study of this area. A masterplan is being proposed to help identify deficiencies and propose improvements. Alternatives for this project could include regional detention or channel improvements to remove the houses from the floodplain.

Justification:

Sixty-five (65) houses are located in the Carter Creek Floodplain in Pecan Ridge Subdivision. Currently, there are four (4) houses that have either reported or been documented as flooding and two (2) of those houses are documented as repetitive loss structures.

Funding Options:

A Flood Protection Planning Grant may be possible for the watershed of Carters Creek.

Funding Source Summary:

Type	Original	Source	2011	2012	2013	2014	2015
Stormwater	$50,000	Stormwater	$0	$0	$0	$0	$0
Design/Survey	**$50,000**		**$0**	**$0**	**$0**	**$0**	**$0**
Total	**$50,000**		**$0**	**$0**	**$0**	**$0**	**$0**

Ranking Criteria

Life Safety:	0	**Street Flooding:**	0	**Infrastructure Damage:**	4	**Maintenance:**	10
Structures Flooding:	10	**Frequency of Flooding:**	1	**Funding Source:**	0	**Project Cost:**	10
Right-of-Way Availability:	3						

Drainage Master Plan Update

Project: CC08 - Old Reliance Road Overtopping - FNI

Project Type: Flooding ***Drainage CIP Ranking:*** 33 ***Existing Study:*** No ***TxDot:*** No

Date Identified: 2009 ***Total Weighted Score:*** 768 ***Panel #:*** L11

Date Last Reported: ***Project Cost:*** $460,000 ***Council District:*** 3

Original Cost Year: 2010 ***Study File Name:*** Carters Creek Flood Hazard Study

Description:

This project requires a study and construction of culvert improvements.

Justification:

Carter Creek overtops Old Reliance Road to a depth of 1.91 feet during the 100-year storm and begins flooding during the 10-year storm. Reliance is a minor arterial road. The adjacent land use at Old Reliance is agricultural open. Two channels merge just downstream of Old Reliance. One set of culverts are 3 - 5 ft CMPs and the other set is 2 - 9'x5' RCBs. No houses are in the floodplain upstream of the culvert.

Funding Options:

Funding Source Summary:

Type	Original	Source	2011	2012	2013	2014	2015
Stormwater	$60,000	Stormwater	$0	$0	$0	$0	$0
Design/Survey	**$60,000**		**$0**	**$0**	**$0**	**$0**	**$0**
Stormwater	$400,000	Stormwater	$0	$0	$0	$0	$0
Const	**$400,000**		**$0**	**$0**	**$0**	**$0**	**$0**
Total	**$460,000**		**$0**	**$0**	**$0**	**$0**	**$0**

Ranking Criteria

Life Safety:	9	**Street Flooding:**	3	**Infrastructure Damage:**	4	**Maintenance:**	4
Structures Flooding:	3	**Frequency of Flooding:**	7	**Funding Source:**	0	**Project Cost:**	7
Right-of-Way Availability:	10						

Drainage Master Plan Update

Project: CC09 - Castle Heights Subdivision Flooding - FNI

Project Type: Flooding ***Drainage CIP Ranking:*** 54 ***Existing Study:*** No ***TxDot:*** No

Date Identified: 2010 ***Total Weighted Score:*** 676 ***Panel #:*** L11

Date Last Reported: ***Project Cost:*** $50,000 ***Council District:*** 2

Original Cost Year: 2010 ***Study File Name:***

Description:

There is currently not a study of this area. A masterplan is being proposed to help identify deficiencies and propose improvements. Alternatives for this project could include regional detention or channel improvements to remove the houses from the floodplain.

Justification:

Seventeen (17) houses are located in the Carter Creek Floodplain in Castle Heights Subdivision.

Funding Options:

Funding Source Summary:

Type	Original	Source	2011	2012	2013	2014	2015
Stormwater	$50,000	Stormwater	$0	$0	$0	$0	$0
Design/Survey	**$50,000**		**$0**	**$0**	**$0**	**$0**	**$0**
Total	**$50,000**		**$0**	**$0**	**$0**	**$0**	**$0**

Ranking Criteria

Life Safety:	0	**Street Flooding:**	0	**Infrastructure Damage:**	4	**Maintenance:**	6
Structures Flooding:	10	**Frequency of Flooding:**	9	**Funding Source:**	0	**Project Cost:**	10
Right-of-Way Availability:	3						

Drainage Master Plan Update

Project: CC10 - MLK Road Overtopping - FNI

Project Type: Flooding ***Drainage CIP Ranking:*** 11 ***Existing Study:*** No ***TxDot:*** No

Date Identified: 2009 ***Total Weighted Score:*** 881 ***Panel #:*** N11

Date Last Reported: ***Project Cost:*** $460,000 ***Council District:*** 3

Original Cost Year: 2010 ***Study File Name:*** Carters Creek Flood Hazard Study

Description:

This project requires a study and construction of upsized culverts.

Justification:

Tributary B of Carter Creek is overtopping MLK by 1.72 feet for the 100-year storm and begins flooding during the 5-year storm event. MLK is a minor arterial for low density residential and commercial. The three existing undersized culverts are 10'x7.6' RCBs. No houses are in the floodplain upstream of the culvert.

Funding Options:

Funding Source Summary:

Type	Original	Source	2011	2012	2013	2014	2015
Stormwater	$60,000	Stormwater	$0	$0	$0	$0	$0
Design/Survey	**$60,000**		**$0**	**$0**	**$0**	**$0**	**$0**
Stormwater	$400,000	Stormwater	$0	$0	$0	$0	$0
Const	**$400,000**		**$0**	**$0**	**$0**	**$0**	**$0**
Total	**$460,000**		**$0**	**$0**	**$0**	**$0**	**$0**

Ranking Criteria

Life Safety:	9	**Street Flooding:**	3	**Infrastructure Damage:**	10	**Maintenance:**	2
Structures Flooding:	3	**Frequency of Flooding:**	9	**Funding Source:**	0	**Project Cost:**	7
Right-of-Way Availability:	10						

Drainage Master Plan Update

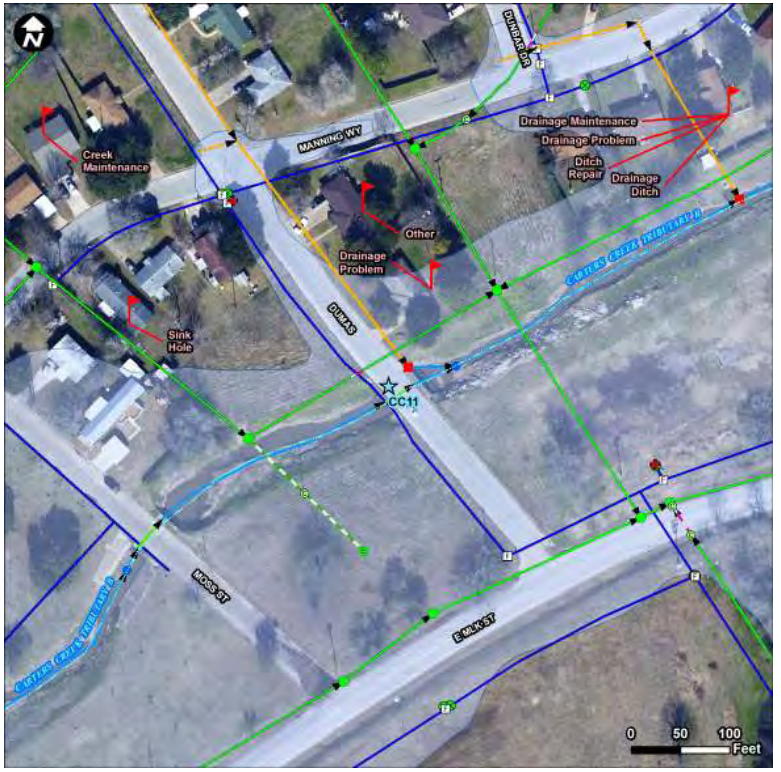
Project: CC11 - Dumas Road Overtopping - FNI

Project Type: Flooding ***Drainage CIP Ranking:*** 26 ***Existing Study:*** No ***TxDot:*** No

Date Identified: 2009 ***Total Weighted Score:*** 799 ***Panel #:*** N11

Date Last Reported: ***Project Cost:*** $230,000 ***Council District:*** 2

Original Cost Year: 2010 ***Study File Name:*** Carters Creek Flood Hazard Study



Description:

This project requires a study and construction of upsized culverts.

Justification:

Tributary B of Carter Creek is overtopping Dumas Road by 3 feet for the 100-year storm and begins flooding during the 5-year storm event. Dumas is a local street for a low density residential area and there is alternate access to the subdivision. The three existing undersized culverts are 10'x6' RCBCs. Two houses are in the floodplain upstream of the culvert.

Funding Options:

Funding Source Summary:

Type	Original	Source	2011	2012	2013	2014	2015
Stormwater	$30,000	Stormwater	$0	$0	$0	$0	$0
Design/Survey	**$30,000**		**$0**	**$0**	**$0**	**$0**	**$0**
Stormwater	$200,000	Stormwater	$0	$0	$0	$0	$0
Const	**$200,000**		**$0**	**$0**	**$0**	**$0**	**$0**
Total	**$230,000**		**$0**	**$0**	**$0**	**$0**	**$0**

Ranking Criteria

Life Safety:	10	**Street Flooding:**	0	**Infrastructure Damage:**	7	**Maintenance:**	0
Structures Flooding:	8	**Frequency of Flooding:**	4	**Funding Source:**	0	**Project Cost:**	8
Right-of-Way Availability:	10						

Drainage Master Plan Update

Project: CC12 - Moss Road Overtopping - FNI

Project Type: Flooding ***Drainage CIP Ranking:*** 31 ***Existing Study:*** No ***TxDot:*** No

Date Identified: 2009 ***Total Weighted Score:*** 785 ***Panel #:*** N11

Date Last Reported: ***Project Cost:*** $420,000 ***Council District:*** 2

Original Cost Year: 2010 ***Study File Name:*** Carters Creek Flood Hazard Study

Description:

This project requires a study and construction of upsized culverts.

Justification:

Tributary B of Carter Creek is overtopping Moss Road by 2.88 feet for the 100-year storm and begins flooding during the 5-year storm event. Moss is a local street for a low density residential area. The existing undersized culverts are a 5 foot RCP and a 6.1 foot arch CMP. 1005 Moss Street is a repetitive loss structure upstream of the culvert.

Funding Options:

If construction is preferred and cost beneficial, this project could potentially qualify for the Severe Repetitive Loss Grant or Flood Mitigation Assistance Project Grant. If a buy-out of 1005 Moss Street is preferred and cost beneficial, then this project could potentially qualify for the Repetitive Flood Claims Grant, Severe Repetitive Loss Grant, or the Pre-Disaster Mitigation Grant. These funding options are suggestions and would need to be further investigated to determine if this project qualifies for any of the suggested grants.

Funding Source Summary:

Type	Original	Source	2011	2012	2013	2014	2015
Stormwater	$70,000	Stormwater	$0	$0	$0	$0	$0
Design/Survey	**$70,000**		**$0**	**$0**	**$0**	**$0**	**$0**
Stormwater	$350,000	Stormwater	$0	$0	$0	$0	$0
Const	**$350,000**		**$0**	**$0**	**$0**	**$0**	**$0**
Total	**$420,000**		**$0**	**$0**	**$0**	**$0**	**$0**

Ranking Criteria

Life Safety:	10	**Street Flooding:**	0	**Infrastructure Damage:**	7	**Maintenance:**	0
Structures Flooding:	8	**Frequency of Flooding:**	4	**Funding Source:**	0	**Project Cost:**	7
Right-of-Way Availability:	10						

Drainage Master Plan Update

Project: CC13 - Waco Road Overtopping - FNI

Project Type: Flooding ***Drainage CIP Ranking:*** 17 ***Existing Study:*** No ***TxDot:*** No

Date Identified: 2009 ***Total Weighted Score:*** 841 ***Panel #:*** N10

Date Last Reported: ***Project Cost:*** $258,750 ***Council District:*** 2

Original Cost Year: 2010 ***Study File Name:*** Carters Creek Flood Hazard Study

Description:

This project requires a study and construction of upsized culverts.

Justification:

Tributary B of Carter Creek is overtopping the southern crossing on Waco Road by 1.44 feet for the 100-year storm. Waco is a collector street for a low density residential area. The three existing undersized culverts are a 8'x8' RCBs. Twenty-one (21) houses are in the floodplain upstream of the culvert.

Funding Options:

Funding Source Summary:

Type	Original	Source	2011	2012	2013	2014	2015
Stormwater	$33,750	Stormwater	$0	$0	$0	$0	$0
Design/Survey	**$33,750**		**$0**	**$0**	**$0**	**$0**	**$0**
Stormwater	$225,000	Stormwater	$0	$0	$0	$0	$0
Const	**$225,000**		**$0**	**$0**	**$0**	**$0**	**$0**
Total	**$258,750**		**$0**	**$0**	**$0**	**$0**	**$0**

Ranking Criteria

Life Safety:	8	**Street Flooding:**	2	**Infrastructure Damage:**	4	**Maintenance:**	0
Structures Flooding:	10	**Frequency of Flooding:**	9	**Funding Source:**	0	**Project Cost:**	8
Right-of-Way Availability:	10						

Drainage Master Plan Update

Project: CC14 - Old Kurten Road Overtopping - FNI

Project Type: Flooding ***Drainage CIP Ranking:*** 66 ***Existing Study:*** No ***TxDot:*** No

Date Identified: 2009 ***Total Weighted Score:*** 632 ***Panel #:*** M10

Date Last Reported: ***Project Cost:*** $345,000 ***Council District:*** 2

Original Cost Year: 2010 ***Study File Name:*** Carters Creek Flood Hazard Study

Description:

This project requires a study and construction of upsized culverts.

Justification:

Tributary B of Carter Creek is overtopping Old Kurten Road by 0.5 feet for the 100-year storm and begins flooding during the 10-year storm. Old Kurten is a local street for a low density residential area. The two existing undersized culverts are both 8'x7' RCBs. No houses are located in the floodplain upstream of the culvert.

Funding Options:

Funding Source Summary:

Type	Original	Source	2011	2012	2013	2014	2015
Stormwater	$45,000	Stormwater	$0	$0	$0	$0	$0
Design/Survey	**$45,000**		**$0**	**$0**	**$0**	**$0**	**$0**
Stormwater	$300,000	Stormwater	$0	$0	$0	$0	$0
Const	**$300,000**		**$0**	**$0**	**$0**	**$0**	**$0**
Total	**$345,000**		**$0**	**$0**	**$0**	**$0**	**$0**

Ranking Criteria

Life Safety:	7	**Street Flooding:**	0	**Infrastructure Damage:**	4	**Maintenance:**	0
Structures Flooding:	3	**Frequency of Flooding:**	7	**Funding Source:**	0	**Project Cost:**	8
Right-of-Way Availability:	10						

Drainage Master Plan Update

Project: CC15 - Trib B Erosion - FNI

Project Type: Erosion
Drainage CIP Ranking: 106
Existing Study: No
TxDot: No
Date Identified: 2010
Total Weighted Score: 234
Panel #: N11
Date Last Reported:
Project Cost: $1,955,000
Council District: 2
Original Cost Year: 2010
Study File Name:

Description:

This project requires a study and channel improvements.

Justification:

Tributary B of Carters Creek is eroding from Waco Road to State Highway 6. The channel is visibly eroding from aerial data. Velocities in the channel are as high as 7.53 ft/s in the 100-year storm event and 5.37 ft/s in the 10-year storm event. Both of these are considered erosive based on the City of Bryan Design Guidelines Table C-11. As the watershed develops the channel will experience additional erosion.

Funding Options:

Funding Source Summary:

Type	Original	Source	2011	2012	2013	2014	2015
Stormwater	$255,000	Stormwater	$0	$0	$0	$0	$0
Design/Survey	**$255,000**		**$0**	**$0**	**$0**	**$0**	**$0**
Stormwater	$1,700,000	Stormwater	$0	$0	$0	$0	$0
Const	**$1,700,000**		**$0**	**$0**	**$0**	**$0**	**$0**
Total	**$1,955,000**		**$0**	**$0**	**$0**	**$0**	**$0**

Ranking Criteria

Life Safety:	0	**Street Flooding:**	0	**Infrastructure Damage:**	7	**Maintenance:**	0
Structures Flooding:	0	**Frequency of Flooding:**	2	**Funding Source:**	0	**Project Cost:**	5
Right-of-Way Availability:	0						

Drainage Master Plan Update

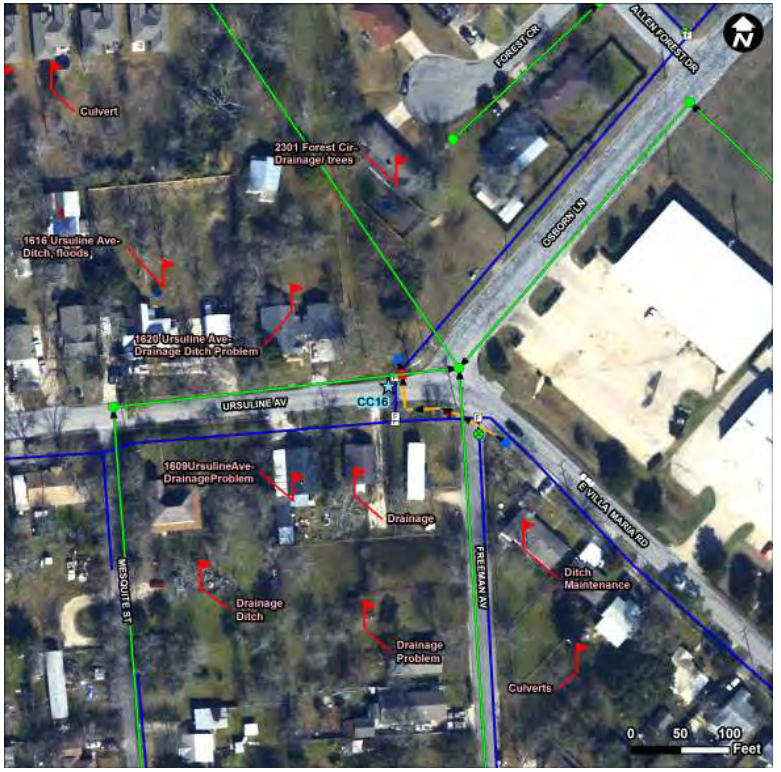
Project: CC16 - Ursuline Avenue Flooding

Project Type: Flooding ***Drainage CIP Ranking:*** 49 ***Existing Study:*** No ***TxDot:*** No

Date Identified: 2010 ***Total Weighted Score:*** 690 ***Panel #:*** N11

Date Last Reported: ***Project Cost:*** $25,000 ***Council District:*** 3

Original Cost Year: 2010 ***Study File Name:***



Description:

It is unclear the source of flooding in the area. For this project, a detailed study needs to be completed. Once the analysis is complete, alternatives should be provided to the City to determine the appropriate solution.

Justification:

The City identified flooding on Ursuline Avenue. Flooding occurs southwest of Allen Forest Drive and East Villa Maria Road on Ursuline Avenue and Una Avenue.

Funding Options:

Funding Source Summary:

Type	Original	Source	2011	2012	2013	2014	2015
Stormwater	$25,000	Stormwater	$0	$0	$0	$0	$0
Design/Survey	**$25,000**		**$0**	**$0**	**$0**	**$0**	**$0**
Total	**$25,000**		**$0**	**$0**	**$0**	**$0**	**$0**

Ranking Criteria

Life Safety:	5	**Street Flooding:**	2	**Infrastructure Damage:**	4	**Maintenance:**	6
Structures Flooding:	5	**Frequency of Flooding:**	7	**Funding Source:**	0	**Project Cost:**	10
Right-of-Way Availability:	3						

Drainage Master Plan Update

Project: CC17 - Carters Creek Trib B Erosion

Project Type: Erosion ***Drainage CIP Ranking:*** 87 ***Existing Study:*** No ***TxDot:*** No

Date Identified: 2010 ***Total Weighted Score:*** 432 ***Panel #:*** N11

Date Last Reported: ***Project Cost:*** $776,250 ***Council District:*** 3

Original Cost Year: 2010 ***Study File Name:***

Description:

This project requires a study, design and bank stabilization for approximately 750 LF of Carters Creek Tributary B.

Justification:

The City identified erosion in the behind residential structures 2601 to 2609 Cypress Circle and Allen Forest Subdivision of Carters Creek Tributary B.

Funding Options:

If cost beneficial, this project may qualify for the Flood Mitigation Assistance grant, Hazard Mitigation Grant Program, or the Pre-Disaster Mitigation Grant. These funding options are suggestions and further investigation is needed to determine if this project qualifies for the suggested grants.

Funding Source Summary:

Type	Original	Source	2011	2012	2013	2014	2015
Stormwater	$101,250	Stormwater	$0	$0	$0	$0	$0
Design/Survey	**$101,250**		**$0**	**$0**	**$0**	**$0**	**$0**
Stormwater	$675,000	Stormwater	$0	$0	$0	$0	$0
Const	**$675,000**		**$0**	**$0**	**$0**	**$0**	**$0**
Total	**$776,250**		**$0**	**$0**	**$0**	**$0**	**$0**

Ranking Criteria

Life Safety:	0	**Street Flooding:**	0	**Infrastructure Damage:**	4	**Maintenance:**	2
Structures Flooding:	5	**Frequency of Flooding:**	7	**Funding Source:**	0	**Project Cost:**	6
Right-of-Way Availability:	3						

Drainage Master Plan Update

Project: CC18 - Bravo Court Flooding

Project Type: Flooding ***Drainage CIP Ranking:*** 67 ***Existing Study:*** No ***TxDot:*** No

Date Identified: 2010 ***Total Weighted Score:*** 626 ***Panel #:*** M12

Date Last Reported: ***Project Cost:*** $25,000 ***Council District:*** 3

Original Cost Year: 2010 ***Study File Name:***

Description:

There is currently not a study available that identifies the source of flooding in this area. This project includes this study to determine the cause of flooding and propose alternatives for improvement.

Justification:

The City identified flooding at 3908 Bravo Court in Austin's Estates Phase 4 of approximately less than 6 inches.

Funding Options:

Funding Source Summary:

Type	Original	Source	2011	2012	2013	2014	2015
Stormwater	$25,000	Stormwater	$0	$0	$0	$0	$0
Design/Survey	**$25,000**		**$0**	**$0**	**$0**	**$0**	**$0**
Total	**$25,000**		**$0**	**$0**	**$0**	**$0**	**$0**

Ranking Criteria

Life Safety:	5	**Street Flooding:**	2	**Infrastructure Damage:**	4	**Maintenance:**	2
Structures Flooding:	5	**Frequency of Flooding:**	7	**Funding Source:**	0	**Project Cost:**	10
Right-of-Way Availability:	3						

Drainage Master Plan Update

Project: CC22 - Carters Creek Trib B Meadowbrook Drive Erosion

Project Type: Erosion
Drainage CIP Ranking: 92
Existing Study: No
TxDot: No
Date Identified: 2010
Total Weighted Score: 360
Panel #: P13
Date Last Reported:
Project Cost: $776,250
Council District: 3
Original Cost Year: 2010
Study File Name:

Description:

This project requires a study and design to stabilize the banks and prevent future erosion of approximately 750 LF of channel.

Justification:

The City identified erosion in the rear lots along Carters Creek Tributary B from Green Valley Drive and Meadowbrook Drive to the rear of Autumn Circle in Wheeler Ridge Subdivision.

Funding Options:

Funding Source Summary:

Type	Original	Source	2011	2012	2013	2014	2015
Stormwater	$101,250	Stormwater	$0	$0	$0	$0	$0
Design/Survey	**$101,250**		**$0**	**$0**	**$0**	**$0**	**$0**
Stormwater	$675,000	Stormwater	$0	$0	$0	$0	$0
Const	**$675,000**		**$0**	**$0**	**$0**	**$0**	**$0**
Total	**$776,250**		**$0**	**$0**	**$0**	**$0**	**$0**

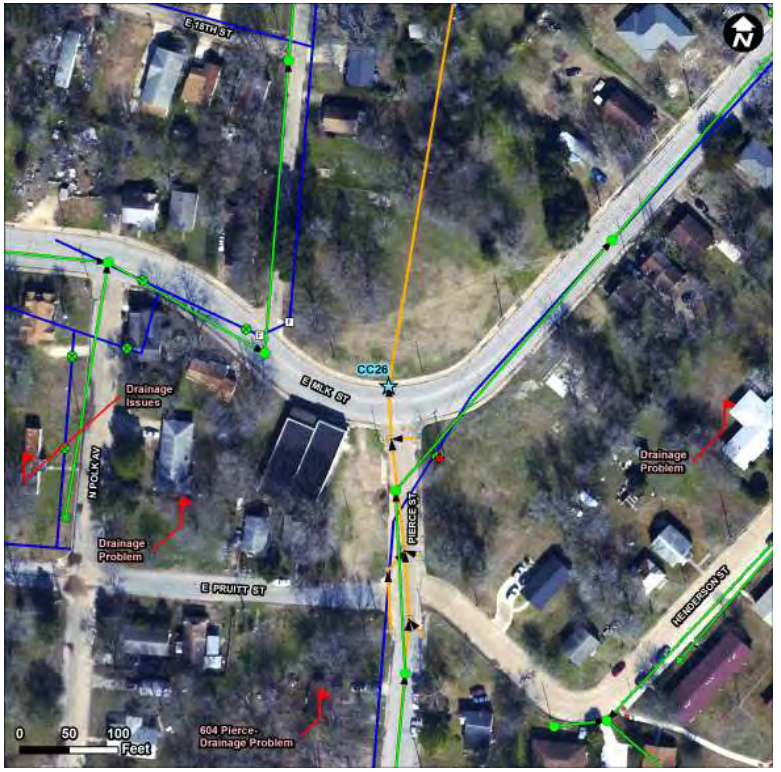
Ranking Criteria

Life Safety:	0	**Street Flooding:**	0	**Infrastructure Damage:**	4	**Maintenance:**	10
Structures Flooding:	0	**Frequency of Flooding:**	0	**Funding Source:**	0	**Project Cost:**	6
Right-of-Way Availability:	3						

Drainage Master Plan Update

Project: CC26 - Pierce Street Storm Drain Improvements

Project Type: Flooding
Drainage CIP Ranking: 83
Existing Study: No
TxDot: No
Date Identified: 2010
Total Weighted Score: 474
Panel #: N10
Date Last Reported:
Project Cost: $1,725,690
Council District: 2
Original Cost Year: 2010
Study File Name:



Description:

Pierce Street is classified as a local street according to the City of Bryan Thoroughfare Plan. The existing trunk line is to be upsized to a 60" RCP from East 22nd Street to E 20th Street where it increases to a 72" RCP from E 20th Street to the outfall. The proposed system prevents Pierce Street from flooding during the 10-year storm event, per City requirements.

Justification:

There is an existing storm sewer system along Pierce Street from East 23rd Street to Military Road that outfalls into Carters Creek. The Thompson "Storm Water Modeling and Infrastructure Mapping Project" project number O2056 identified this street as flooding during the 10-year storm event. The area is surrounded by residential and commercial buildings.

Funding Options:

Funding Source Summary:

Type	Original	Source	2011	2012	2013	2014	2015
Stormwater	$225,090	Stormwater	$0	$0	$0	$0	$0
Design/Survey	**$225,090**		**$0**	**$0**	**$0**	**$0**	**$0**
Stormwater	$1,500,600	Stormwater	$0	$0	$0	$0	$0
Const	**$1,500,600**		**$0**	**$0**	**$0**	**$0**	**$0**
Total	**$1,725,690**		**$0**	**$0**	**$0**	**$0**	**$0**

Ranking Criteria

Life Safety:	5	**Street Flooding:**	0	**Infrastructure Damage:**	4	**Maintenance:**	10
Structures Flooding:	3	**Frequency of Flooding:**	0	**Funding Source:**	0	**Project Cost:**	5
Right-of-Way Availability:	0						