AGENDA STATEMENT

City of Bellaire

MEETING: City Council - Aug 19 2024
PREPARED BY: Megan Campbell
DEPARTMENT: City Manager's Office

ITEM TITLE:

Quarterly Update Presentation by Ardurra Group Incorporated regarding progress on the City's Regional Drainage Improvement Program - Submitted by Megan Campbell, Capital Projects and Grants Manager.

RECOMMENDATION:

Megan Campbell, Capital Projects and Grants Manager, recommends that City Council receive the report and provide feedback as appropriate.

BACKGROUND/SUMMARY:

The City of Bellaire is seeking regional drainage improvements to reduce flood risk to Bellaire. To accomplish this, the City has engaged Ardurra Group Incorporated (Ardurra) to manage a regional drainage improvement program under a work order contract. Work Order No. 2, issued on January 22, 2024, authorizes twelve months of work (January through December 2024) at a cost not to exceed $843,902. Work Order No. 2 focuses efforts on ten tasks (A through J):

1. Task A: Preliminary engineering for Regional Detention project.
2. Task B: Preliminary engineering for the Cypress Ditch Improvements project.
3. Task C: Local street reconstruction CIP prioritization strategy.
4. Task D: Emergency access route designation and delineation.
5. Task E: Developing recommendations for project scope, funding, and timing of a bond election.
6. Task F: Update road map for funding recommended projects.
7. Task G: Position projects for grant funding and prepare grant applications.
8. Task H: Coordination with the Texas Department of Transportation (TxDOT) for the IH-610 Storm Sewer System Improvements project.
9. Task I: City and public engagement.
10. Task J: Agency/partner coordination efforts.

Ardurra will keep City Council and citizens informed of its progress on work performed under Work Order No. 2 through quarterly reports presented during City Council meetings.

PREVIOUS COUNCIL ACTION:

On December 19, 2022, City Council approved a Professional Services Agreement with Ardurra Group

Incorporated for engineering services related to the Regional Drainage Improvement Program and authorized Work Order No. 1 in an amount not to exceed $390,795.00. On January 22, 2024, City Council authorized Work Order No. 2 in an amount not to exceed $843,902.

FISCAL IMPACT:

None.

CITY ATTORNEY REVIEW:

☐ **Yes** ☑ **No**

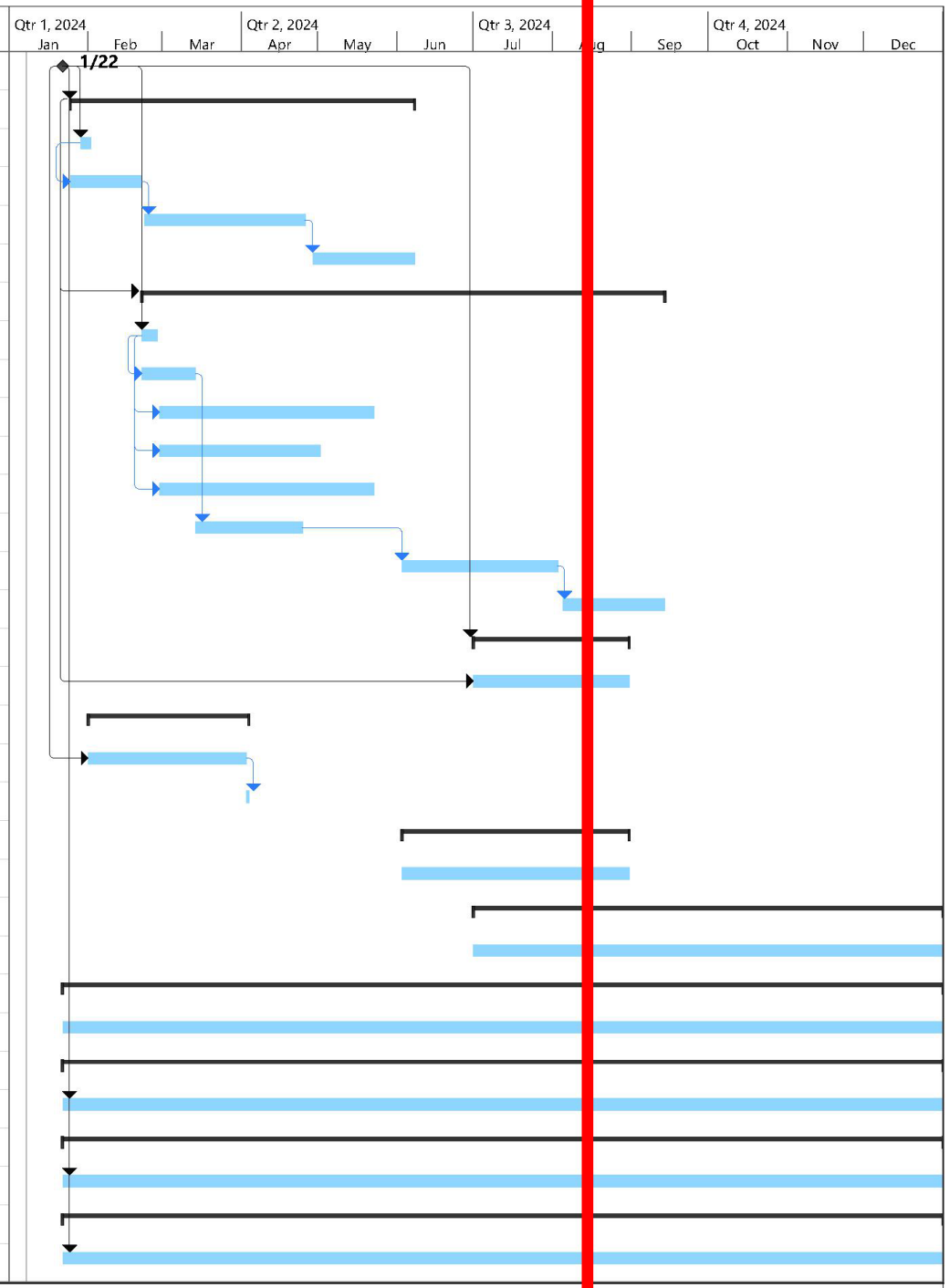
Regional Drainage Improvement Program Quarterly Report

Council Meeting Date: August 19, 2024

Work Order #2 – High Level Goals

- Advance our flood risk reduction program efforts:
  - Staff / council engagement
  - Project partner engagement
  - Public engagement
- Progress high priority “First Phase” projects toward final design
- Commence local project and CIP development
- Update funding roadmap
- Continue to pursue partnership opportunities, external funding, and submittal of grant applications

ID	Task Mode	Task Name	Scheduled Start	Scheduled Finish
1		**NTP**	Mon 1/22/24	Mon 1/22/24
2		**Task A: Preliminary Engineering for Regional Detention**	**Thu 1/25/24**	**Fri 6/7/24**
3		Field Investigation	Mon 1/29/24	Thu 2/1/24
4		Existing Conditions Review	Thu 1/25/24	Wed 2/21/24
5		Proposed Conditions Analysis	Fri 2/23/24	Thu 4/25/24
6		EOPCC, 30% Design Plans, PER	Mon 4/29/24	Fri 6/7/24
		Task B: Preliminary Engineering for Cypress Ditch Improvements	**Thu 2/22/24**	**Fri 9/13/24**
		Field Investigation	Thu 2/22/24	Tue 2/27/24
		Existing Conditions Review	Thu 2/22/24	Wed 3/13/24
10		Survey	Thu 2/29/24	Wed 5/22/24
11		SUE	Thu 2/29/24	Wed 5/1/24
12		Geotech	Thu 2/29/24	Wed 5/22/24
13		Existing Conditions Drainage Analysis	Thu 3/14/24	Wed 4/24/24
14		Proposed Conditions Analysis	Mon 6/3/24	Fri 8/2/24
15		EOPCC, 30% Design Plans, PER	Mon 8/5/24	Fri 9/13/24
16		**Task C: Local Street Reconstruction CIP Prioritization Strategy**	**Mon 7/1/24**	**Fri 8/30/24**
17		Develop Prioritization Strategy and TM	Mon 7/1/24	Fri 8/30/24
18		**Task D: Emergency Access Route Designation and Delineation**	**Thu 2/1/24**	**Wed 4/3/24**
19		Data Collection, Modeling, and Review	Thu 2/1/24	Tue 4/2/24
20		Workshop with City	Wed 4/3/24	Wed 4/3/24
21		**Task E: Bond Election Engineering Support**	**Mon 6/3/24**	**Fri 8/30/24**
22		Develop Bond Election Supporting Documentation	Mon 6/3/24	Fri 8/30/24
23		**Task F: Update Funding Roadmap**	**Mon 7/1/24**	**Tue 12/31/24**
24		Update Roadmap	Mon 7/1/24	Tue 12/31/24
25		**Task G: Position Projects for Grant Funding and Prepare Grant Applications**	**Mon 1/22/24**	**Tue 12/31/24**
26		Prepare Grant Applications	Mon 1/22/24	Tue 12/31/24
27		**Task H: TxDOT Coordination for IH-610 Storm Sewer System Improvements**	**Mon 1/22/24**	**Tue 12/31/24**
28		TxDOT Coordination Meetings	Mon 1/22/24	Tue 12/31/24
29		**Task I: City and Public Engagement**	**Mon 1/22/24**	**Tue 12/31/24**
30		City and Public Engagement Meetings	Mon 1/22/24	Tue 12/31/24
31		**Task J: Agency/Partner Coordination**	**Mon 1/22/24**	**Tue 12/31/24**
32		Coordination Meetings	Mon 1/22/24	Tue 12/31/24



Work Order #2

- In progress • Task A - Preliminary Engineering for Regional Detention
- In progress • Task B - Preliminary Engineering for Cypress Ditch Improvements
- In progress • Task C - Local Street Reconstruction CIP Prioritization Strategy
- Complete • Task D - Emergency Access Route Designation and Delineation
- In progress • Task E- Bond Election Engineering Support
- In progress • Task F - Update Funding Roadmap
- Ongoing • Task G - Position Projects for Grant Funding, and Prepare Grant Applications
- Ongoing • Task H - TxDOT Coordination for IH-610 Storm Sewer Improvements
- Ongoing • Task I - City and Public Engagement Efforts
- Ongoing • Task J - Agency / Partner Coordination Efforts

Key Progress and Milestones

- Task B
  - Proposed conditions analysis complete, finalizing preliminary design
- Task J
  - Submitted three projects for funding through HGAC Water/Wastewater Utility and Flood Mitigation Priority Project Lists

Grant Activity

FUNDING SOURCE	APPLICATION DATE	PROJECT(S) SUBMITTED FOR FUNDING	Status
CDBG-MIT	June 7, 2023	Cypress Ditch Central Portion submitted in 2023	Not awarded
DOT Reconnecting Communities and Neighborhoods (RCN)	September 28, 2023	Cypress Slough Trail	Not awarded
GLO Resilient Communities Program	Open to June 2028	Home Elevation Program	Will be completed as part of the Comprehensive Plan Update
TWDB Flood Mitigation Assistance (FMA)	January 8, 2024	North Bellaire Flood Risk Mitigation and Resiliency Study	Submitted
HGAC Transportation Improvement Program (TIP)	February 13, 2024	Chimney Rock Corridor S Rice Corridor Newcastle Corridor	Submitted
TWDB Flood Infrastructure Fund (FIF)	April 15, 2024	Chimney Rock Area Drainage Improvements Study Newcastle/Kilmarnock Drainage Improvements Study Local Drainage Asset Management Study	Submitted
Community Project Funding (CPF)	May 3, 2024	Cypress Ditch	Submitted
HGAC Water/Wastewater Utility and Flood Mitigation Priority Project Lists	August 14, 2024	Cypress Ditch Regional Detention Wastewater Transfer Project	Submitted

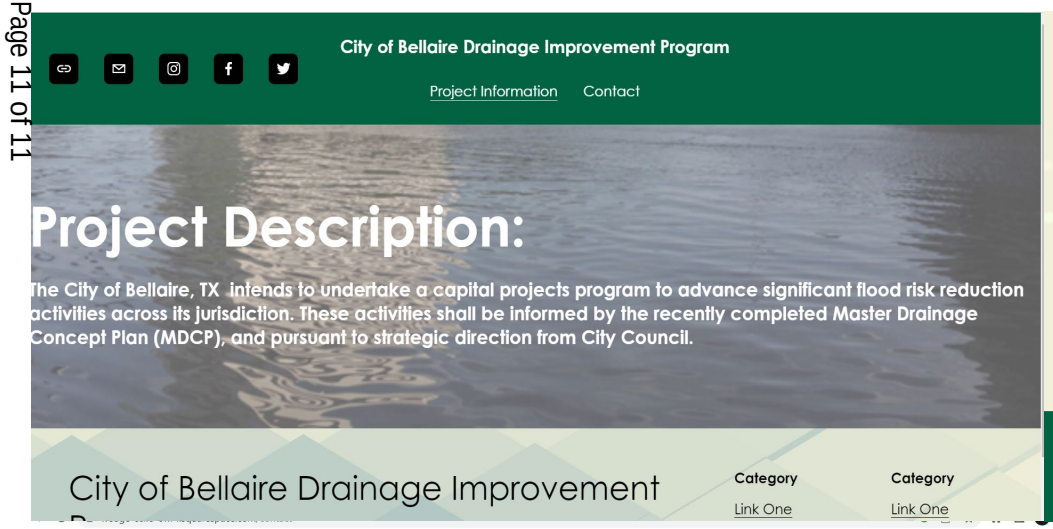
Next Quarter Look Ahead

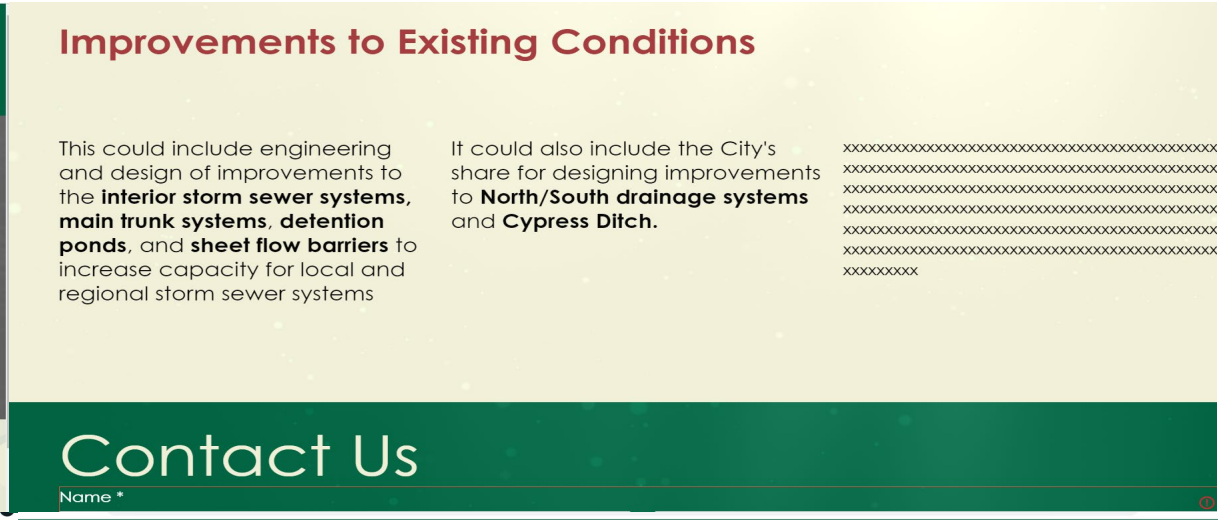
- Continue progress on securing land for detention
- Finalize Cypress Ditch preliminary engineering report
- Finalize other WO #2 tasks

Scheduled Engagement Activities

- Public Open House scheduled for 8/20
- Second Flood Hazard Mitigation Task Force meeting scheduled for 10/22

Website Updates




Improvements to Existing Conditions
This could include engineering and design of improvements to the interior storm sewer systems, main trunk systems, detention ponds, and sheet flow barriers to increase capacity for local and regional storm sewer systems
It could also include the City's share for designing improvements to North/South drainage systems and Cypress Ditch.
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