

## MEMORANDUM

**TO:** The Honorable Mayor and City Council  
**FROM:** Joseph E. Tebrugge, Director of Engineering  
**DATE:** August 20, 2021  
**SUBJECT:** **Flood Prone Area Capital Project Ranking**

Staff will be presenting the 6th informational session on the general topic of storm water management with the goal of decreasing overland flooding of primary structures. This presentation is a continuation of the **City of Wheaton Flood Resiliency Investigation Series**.

At the June 28<sup>th</sup> City Council Planning Session City Council tasked Staff to develop a ranking system for the Flood Prone Area Capital Improvement Projects presented in the June 14<sup>th</sup> and June 28<sup>th</sup> "Evaluation of Capital Project's Ancillary Benefits" presentation. City Council has expressed a desire to determine what projects can be done in the near future as there is American Rescue Plan (ARP) funding that has been made available by the Federal Government for these types of projects.

Staff has generated a ranking system generally based on two categories:

- 1) Benefits to the City of Wheaton residents
- 2) Expediency of the Project

Staff will present the ranking system and is requesting City Council feedback or approval of the rankings. Staff will also discuss future recommended steps to continue towards generating a comprehensive Flood Protection Program for the City of Wheaton residents.



# CITY OF WHEATON FLOOD RESILIENCY INVESTIGATION

## Flood Prone Area Capital Project Ranking

Joseph Tebrugge – Director of Engineering

Kris Dunn – Developmental Engineer

Department of Engineering

August 23, 2021



## Flood Prone Area Capital Project Ranking



STAFF HAS CREATED A POINT SYSTEM TO WEIGH ALL OF OUR FLOOD PRONE AREA CAPITAL PROJECTS

- 1) Benefits to City of Wheaton residents
  - COST PER STRUCTURE PROTECTED (0 to 10 Points)
  - ANCILLARY BENEFITS (-5 to 10 Points)
  - FEMA BCA FOR PROJECT (Used as Tie Breaker)
  
- 2) Expediency to Construct Projects
  - PROJECT LOCATED ON CITY PROPERTY (0 or 10 Points)
  - PROJECTED EASE OF CONSTRUCTION (0 to 10 Points)
  - GRANT POSSIBILITY (-5 or 0 Points)

# Flood Prone Area Capital Project Ranking



- **COST PER STRUCTURE PROTECTED (0 to 10 Points)**

Cost / Structure Protected	10000	50000	100000	150000	200000	250000	300000	350000	400000	450000	500000
Points	10	9	8	7	6	5	4	3	2	1	0

- **ANCILLARY BENEFITS (-5 to 10 Points)**

Ancillary Benefits	High	Medium	Low	Very Low
Points	10	5	1	-5

- **FEMA BCA FOR PROJECT (Used as Tie Breaker)**

- **PROJECT LOCATED ON CITY PROPERTY (0 or 10 Points)**

Project on City Property	No	Yes
Points	0	10

- **PROJECTED EASE OF CONSTRUCTION (0 to 10 Points)**

Public Cooperation Difficulty	1	2	3	4	5
Points	10	7	5	3	0

- **GRANT POSSIBILITY (-5 or 0 Points)**

Grant Possible	No	Yes
Points	0	-5

# Flood Prone Area Capital Project Ranking



## PLANNED PATH FORWARD

- Preliminarily Planned for ARP funds ->
- Starting Grant Writing Process ->
- Preliminarily Planned for ARP funds ->

## FLOODPRONE AREA RANKING

TOTAL POINTS	FLOODPRONE AREA	BCA
36	Wakeman & Cadillac	
34	Turf, Countryside, & Ranch	
33	Pershing East	
31	Dorset Drive	
27	Glendale Avenue	
21	TCR Localized	
18	Thomas and Summit	
15	Mayo Avenue	2.92
15	Jefferson Avenue	1.10
15	Briarcliffe Lakes	0.96
13	Erie Street	
11	Cherry Street	
11	Harrison Avenue	
8	Delles - Prairie Path Park	
2	Pershing West	
1	Williston Basin	
#N/A	Ridge Park	
#N/A	Madison Avenue	

# CITY OF WHEATON FLOOD RESILIENCY INVESTIGATION

## Recommended Immediate Next Steps

- 1) Approve FEMA Grant Writing Contract for Turf, Countryside & Ranch at the September 9<sup>th</sup> City Council meeting
- 2) Begin procurement of Final Engineering contracts for the Wakeman & Cadillac Project and the Dorset Drive Project
- 3) Initiate Public Meetings for Wakeman & Cadillac Project and the Dorset Drive Project



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# CITY OF WHEATON FLOOD RESILIENCY INVESTIGATION

## Recommended Next Steps

- 1) Continue discussions with Council about Buyout/Floodproofing vs. Capital Improvement Projects for Flood Prone Areas
- 2) Continue discussions with Council about programs to deploy in Floodplain and Site-Specific Areas



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THANK YOU  
ANY QUESTIONS?

