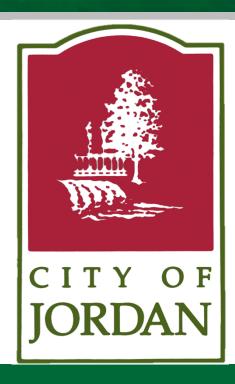


New FEMA Flood Mapping & City of Jordan Resident Support Program

Informational Meeting November 30, 2020



Introductions



Mike Waltman, PE
Jordan City Engineer



Roberta Cronquist, MS, PE, CFM Program Administrator





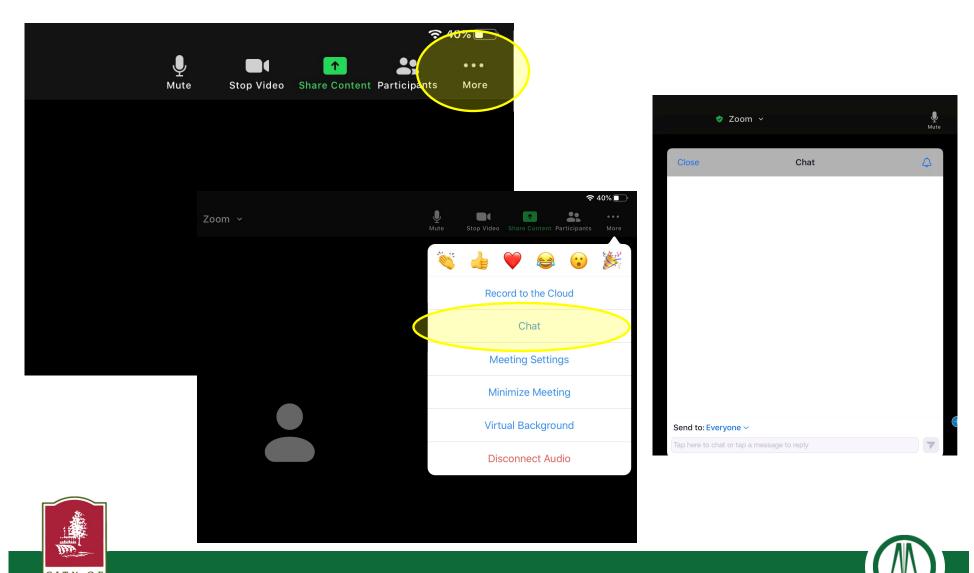
Meeting Housekeeping Items

- In Person Attendees
- Watching video via City website? Think of more Questions later?
 - Email: jordanfloodmapping@bolton-menk.com
- Zoom Meeting Attendees
 - Type questions into the 'chat'; or
 - If you prefer, type "question" into the chat and we will call on you to verbally ask your question
 - Please mute yourself



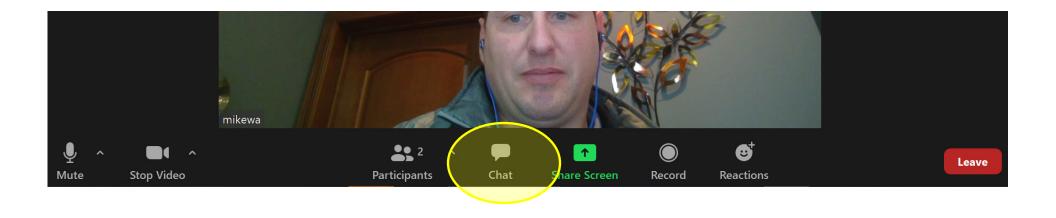


Zoom Meeting Chat – Apple Device



JORDAN

Zoom Meeting Chat – Windows Device

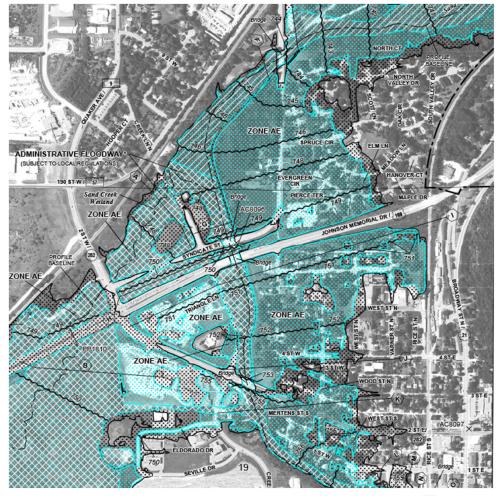






FEMA Flood Mapping

- New maps to become effective February 12, 2021
 - Some properties being added to floodplain, a nearly equal amount being subtracted
- Residents to receive letters about 2 weeks later
- Insurance requirements within 45 days of notification (April 2021)







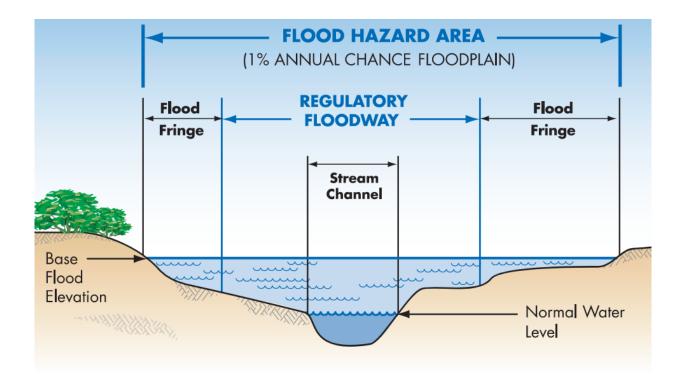
Purpose of Mailings & City Program

- Stay ahead of changes in mapping allow Jordan property owners time to think over their options and act
- Centralize surveying/documentation efforts at community level to minimize costs for all participants
- Save Jordan property owners on flood insurance costs





Floodplain Basics



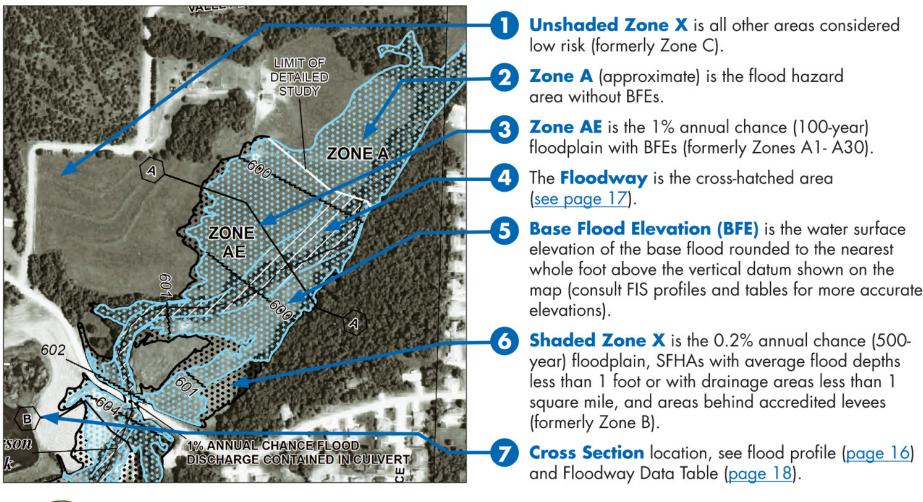
Common Acronyms

- BFE = Base Flood Elevation
- CUP = Conditional Use Permit
- EC = Elevation Certificate
- FIRM = Flood Insurance Rate Map
- NFIP = National Flood Insurance Program
- RFPE = Regulatory Flood Protection Elevation
- SFHA = Special Flood Hazard Area (100-year floodplain)





How to Read FEMA Flood Maps

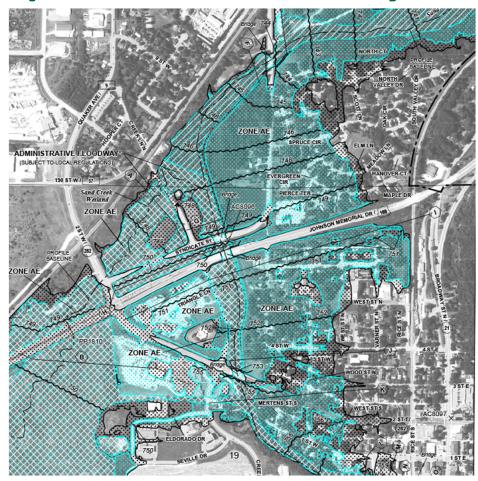






New FEMA Flood Maps for Scott County

- 4 Maps that cover the City of Jordan
- Maps are available for viewing on FEMA's website and at www.jordanmnengineering.com
- City has analyzed the mapped boundaries and flood depths against approximate property line locations (per Scott County GIS)







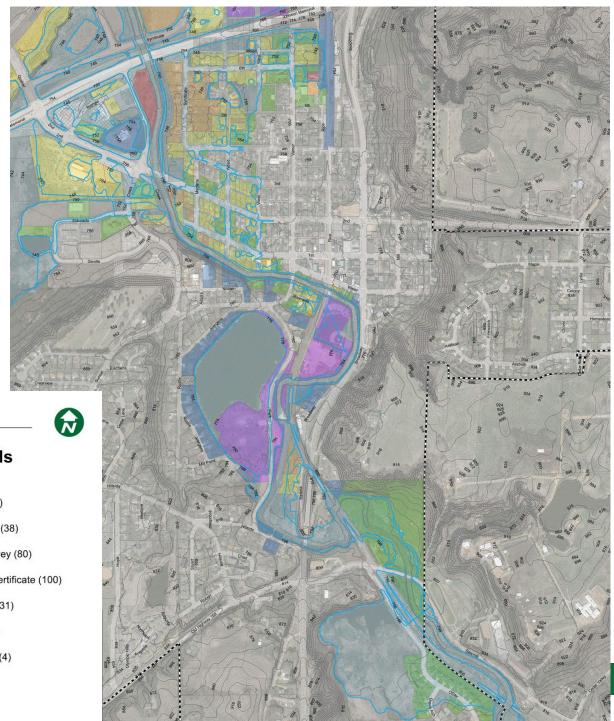


Sand Creek Floodplain Evaluation



Real People. Real Solutions.

October 2020



Legend

City Limits

Parcels

2021 FEMA Floodplain

100-year Floodplain

LiDAR Contours

---- Index

----- Intermediate

Floodplain Parcels

LOMC Category

Revalidated LOMA (9)

LOMA Out as Shown (38)

LOMA Based on Survey (80)

LOMA or Elevation Certificate (100)

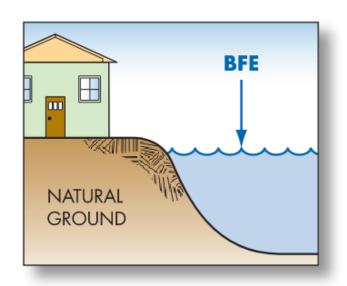
Elevation Certificate (31)

No Survey Benefit (2)

Individual Evaluation (4)

No Structure (70)

What is a LOMA?



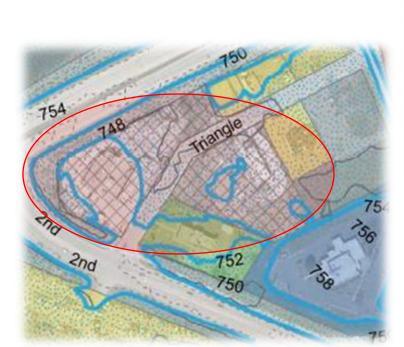
Letter of Map Amendment (LOMA) is an official amendment to an effective FIRM that may be issued when a property owner provides additional technical information from a professional land surveyor, such as ground elevation relative to the BFE.

Lenders may waive the flood insurance requirement if the LOMA removes a building site from the SFHA because natural ground at the site is at or above the BFE.



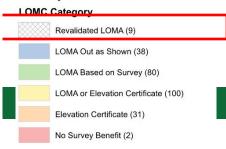


 Revalidated LOMA – property formerly had a LOMA, FEMA reviewed it against the new maps, and upheld it





Floodplain Parcels





- LOMA Out As Shown floodplain boundary crosses property boundaries, but based on aerial photos/contours the structure is visibly above the flood elevation
 - Map prepared by City upon emailed request to <u>jordanfloodmapping@bolton-menk.com</u>
 - Residents can prepare and submit documentation with DNR instructions



Floodplain Parcels

LOMC Category

Revalidated LOMA (9)

LOMA Out as Shown (38)

LOMA Based on Survey (80)

LOMA or Elevation Certificate (100)

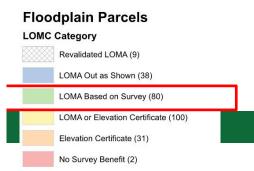
Elevation Certificate (31)

No Survey Benefit (2)



LOMA Based on Survey:

- Mapped floodplain crosses into or encompasses the property, and over or near the structure
- Structure Elevation:
 - FEMA flood elevation appears to be below the structure elevation data available to the City; or
 - Based on contours, the FEMA flood map depth at the structure is one foot or less.





Sawmill Woods

- Previous LOMA approved by FEMA in 2005
- 2005 LOMA was 1 document shared across 30+/- properties
- Based on new maps, FEMA invalidated the 2005 LOMA
- New LOMA needed property owners are encouraged to 'opt in' to program to lower costs for all

Home records on file with City will not be sufficient to satisfy

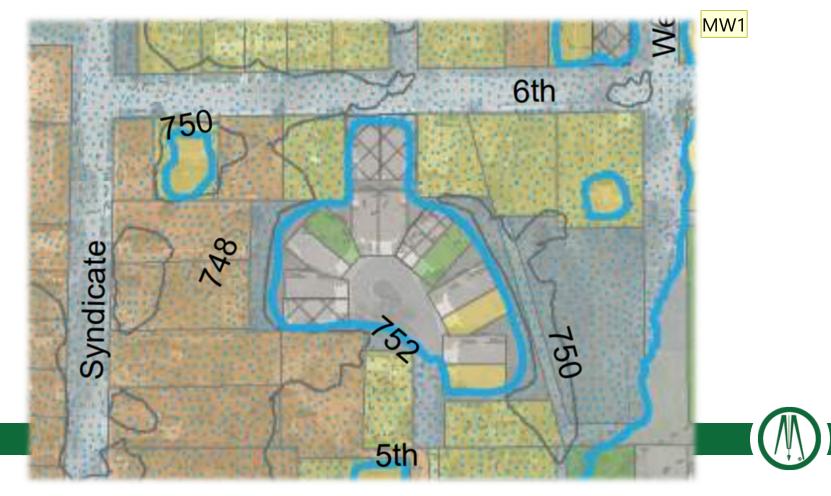
FEMA – survey needed





Wood Circle Townhomes

- All of Wood Circle Townhomes were 'covered' by two LOMA's under the old maps
- FEMA Revalidated one of the two LOMAs

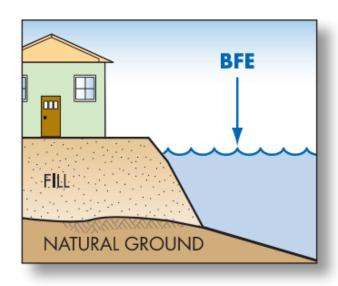


Slide 17

MW1

Mike Waltman, 11/25/2020

What is a LOMR-F?



Letter of Map
Revision Based on Fill
(LOMR-F) is an official
FEMA determination that
a structure or parcel of
land has been elevated
by fill above the BFE, and
therefore is no longer
in the SFHA for federal

mandatory flood insurance purposes. Minnesota law requires additional steps to remove a structure or parcel of land from the SFHA for regulatory purposes.



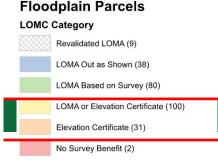


LOMA or Elevation Certificate:

- Mapped floodplain crosses into or encompasses the property
- FEMA flood elevation is within 1 vertical foot of estimated structure elevation based on contour data
- A survey is recommended to verify the structure elevation, and then complete a LOMA or EC (whichever is appropriate/best)

Flevation Certificate:

- Structure estimated to be 1 to 3 feet below the base flood elevation
- Completing an EC with a survey to lower flood insurance premiums





Lowertown Jordan

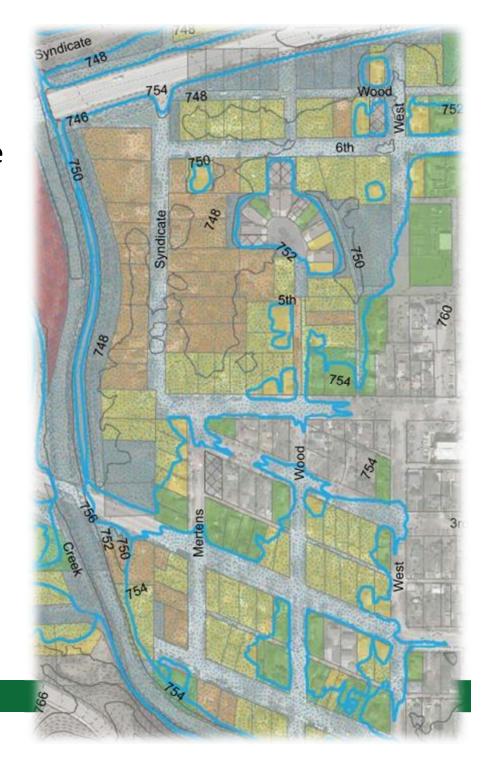
- Estimated structure elevations are so close to base flood elevation (within 1 foot) that a LOMA might be found with survey
- An elevation certificate will lower flood insurance premiums compared to 'do nothing'

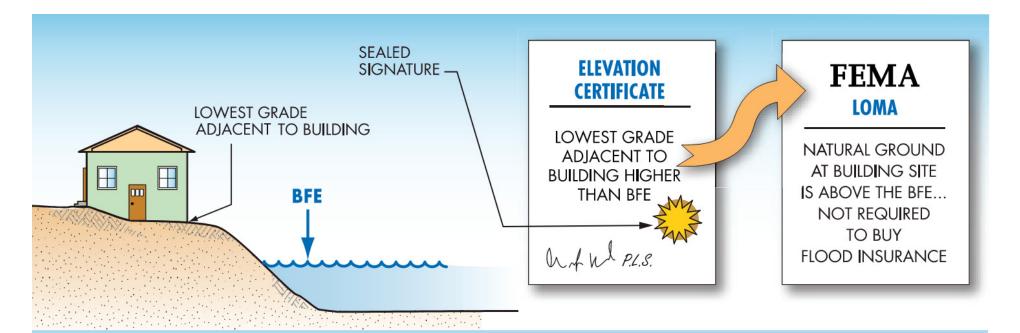
LOMA Based on Survey (80)

LOMA or Elevation Certificate (100)

Elevation Certificate (31)







If land is shown on the map as "in" the SFHA, but the building site is higher than the Base Flood Elevation (BFE)... get a professional land surveyor to complete a FEMA Elevation Certificate (EC). Submit a request for a Letter of Map Amendment (LOMA) to FEMA along with the EC to verify that the structure is above the BFE (see page 23). If FEMA approves the request, lenders are not required to have property owners get flood insurance policies, although some may still require them.

Owners should keep certificates and LOMAs with deeds— the documentation will help future buyers.





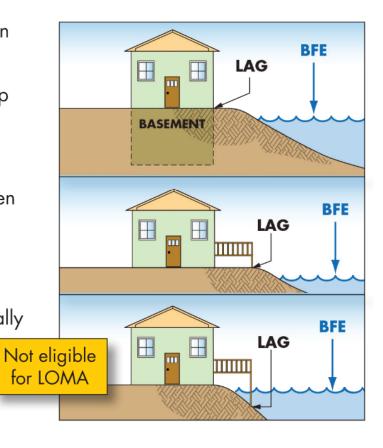
More on LOMAs: Basements and Decks

Owners can obtain LOMAs to show buildings are not in SFHAs even when buildings have basements, provided:

- Earthen fill has not been placed since date of the first FEMA map showing the site in the SFHA.
- The Lowest Adjacent Grade (LAG) is at or above the BFE.

Owners can obtain LOMAs to show buildings are not in SFHAs when buildings have decks or stairs, provided:

- The Lowest Adjacent Grade (LAG) at the lowest deck or stair support is at or above the BFE
- Documentation that the deck or stairs are detached (not structurally connected), as long as the LAG next to the building is at or above the BFF.

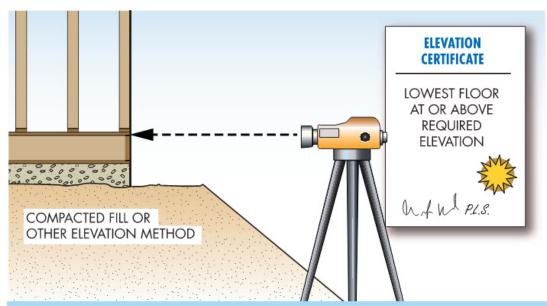






Lowest Floor Elevation & Basements

Paperwork is Important for Owners





Lowest Floor means the lowest floor of the lowest enclosed area (including basement). An unfinished or flood-resistant enclosure (that is not a basement) is not the lowest floor if the enclosure is limited to parking, limited storage, and building access (see page 50) and it is built as required by local floodplain management ordinances and a CUP is obtained.

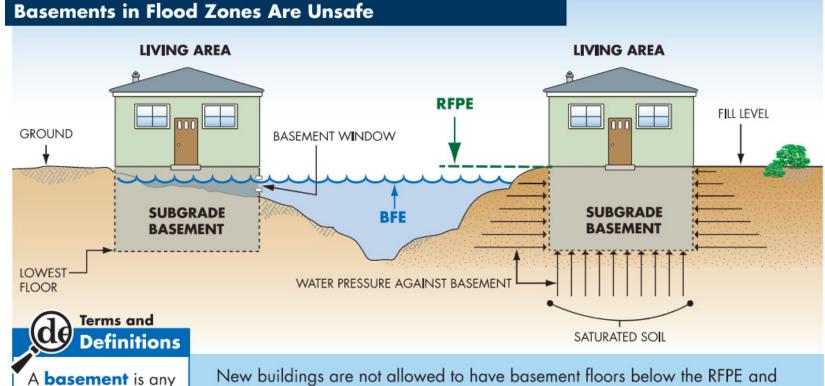
Owners should keep Elevation Certificates in a safe place. They can be used to demonstrate that buildings were compliant at the time of construction. Also, Elevation Certificates are required to obtain NFIP flood insurance policies.

"As-built" Elevation Certificates should be submitted before the final inspection. Surveyors collect information helpful to verify compliance, including flood openings and elevation of equipment (see page 45).





Basements



A **basement** is any portion of a building that has its floor subgrade (below ground level) on all sides.

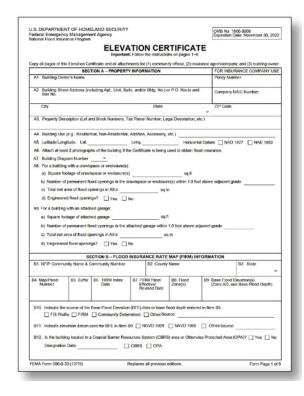
New buildings are not allowed to have basement floors below the RFPE and NFIP flood insurance coverage is very limited in existing basements for a very good reason. It only takes an inch of water over a door threshold or window sill and the entire basement fills up! Excavating a basement into fill doesn't always make it safe because saturated groundwater can damage the walls.





What is the Elevation Certificate and How is it Used?

- The Elevation Certificate (EC) is a FEMA form. Go to www.fema.gov and search for "Elevation Certificate."
- The EC must be completed and signed by a professional land surveyor or qualified professional engineer licensed in Minnesota.
- Community officials may complete the EC for sites in Zone AO (see Section G of the EC).
- It can be used to show that lowest grades adjacent to planned or existing building sites are above the Base Flood Elevation (see page 24).
- It is used to verify building and equipment elevations.
- Insurance agents use the EC to write and rate flood insurance policies.
- See page 79 for online Elevation Certificate training information.







Accessory Structures

Accessory Structures

If not elevated, accessory structures in flood zones must:

- Not be in the floodway
- Be less than 576 sq. ft. in floor area
- Not be habitable
- Be used only for parking or storage (not pollutants or hazardous materials)
- Be anchored to resist floating
- Have flood openings
- Be built of flood damage-resistant materials
- Have elevated utilities
- Not be modified for different use in the future



Examples of accessory structures are detached garages, carports, storage sheds, pole barns, and hay sheds.





Program Costs

Letter of Map Amendment (LOMA) & Letter of Map Amendment Based on Fill (LOMR-F) Properties		
Properties in this Category that Choose to	Cost Per Property for a	Cost Per Property for a
Participate	LOMA	LOMR-F
0 to 10	\$ 1000	\$ 1,500
11 to 20	\$ 800	\$ 1,300
21 to 30	\$ 700	\$ 1,200
31+	\$ 600	\$ 1,100

Elevation Certificate (EC) Properties		
Properties in this Category that Choose to Participate	Cost Per Property for an Elevation Certificate	
0 to 10	\$ 700	
11 to 20	\$ 650	
21 to 30	\$ 600	
31+	\$ 500	

 Final cost to each specific property to be determined once number of participants in each category are known in January

Payment

- Agreement to be sent to properties who return the "Program Interest Form"
- The agreement will require (if signed by the City and property owner):
 - Payment by May 1, 2021; or
 - If no payment is received, costs will be assessed to properties for payment with their annual taxes over the next 5 years at a 4% interest rate





Benefits of Participating

LOMA / LOMR-F

- Removed (or stay removed) from the floodplain
- Flood insurance not required
- If flood insurance still desired, substantially reduced insurance premiums

Elevation Certificate

- Reduced flood insurance premiums
- Reduction based on depth below the 100-yr flood elevation

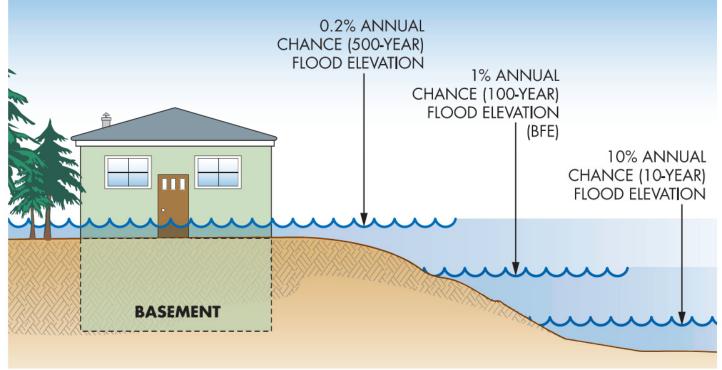
Insurance Premiums Avoided or Decreased:

 Current residential premiums in Jordan typically range from \$1,000 to \$2,500 annually and costs are rising





Floods Don't Always Stop at the BFE





Many people don't understand just how risky building in flood zones can be. There is a greater than 26% chance that a non-elevated home in the SFHA will be flooded during a 30-year mortgage period. The chance that a major fire will occur during the same period is less than 5%!





Who Wouldn't Benefit?

- Have no mortgage on the property <u>and</u> have no desire to purchase flood insurance
- Properties not within the floodplain <u>and</u> have no desire to purchase flood insurance
- Structures more than 3' below the 100-yr flood elevation
 - An elevation certificate may not yield benefit discuss with your insurance company first.
- Properties with an existing Elevation Certificate (EC)
 - City of Jordan does not have record of all of these
 - If you have one already, please provide a copy to the City



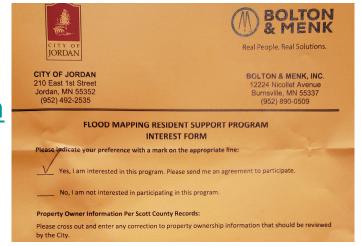


How to Participate

 Return the 'Program Interest Form' to City Hall or email to:

jordanfloodmapping@bolton-menk.com

- LOMA-OAS Properties
 - Request a map at no cost for your property by emailing: jordanfloodmapping@bolton-menk.com
 - Instructions provided to you via email on how to fill out the FEMA forms
- Agreement with City
 - Example available online at www.jordanmnengineering.com







Program Schedule – LOMA & EC Properties

- 12/11/20: Program Interest Forms Due
- 12/14/20 12/16/20: Agreements Mailed
- 12/31/20: Signed Agreements Due Back to the City
- January February, 2021: Survey, survey data reviewed to determine LOMA / EC / LOMR-F documentation need, FEMA documentation completed by engineer
- February April, 2021: FEMA Review, During this time, it is also anticipated lenders/FEMA will be sending letters to residents (participating properties will be one step ahead of FEMA)



April, 2021: FEMA Approvals Anticipated



Additional Resources

- Email: jordanfloodmapping@bolton-menk.com
- Website: <u>www.jordanmnengineering.com</u>
- Mike Waltman, City Engineer
 - 952-890-0509 x2663
- Roberta Cronquist, Program Administrator
 - 952-890-0509 x3095
- www.floodsmart.gov
- https://www.dnr.state.mn.us/waters/watermgmt_section/floodplain/ index.html





Program Website

- Copies of presentations
- Example agreement
- Frequently asked questions
- Additional resources
 - Contact Info
 - MnDNR Resources
 - FEMA Resources

Program Page



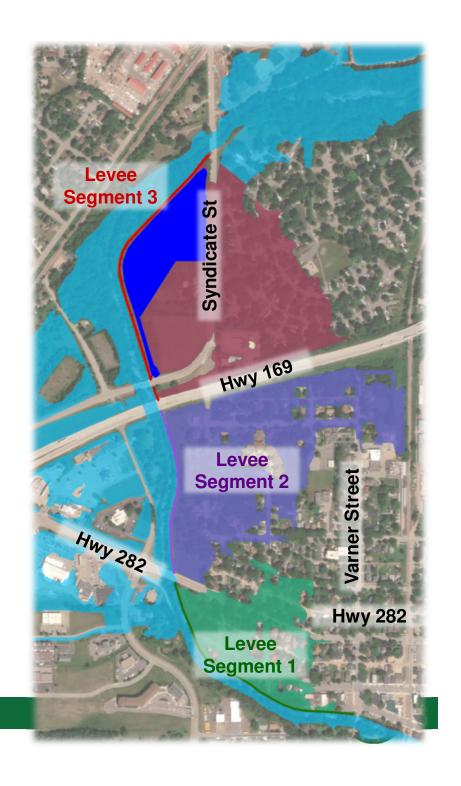
www.jordanmnengineering.com





Flood Control Project Overview

- Replace uncertified levees with new, certified Levees along Sand Creek
- Pond north of 169
- Funding from State bonding bill / DNR program over next 6 to 10 years
- May start design/acquisitions along the 'segment 1' levee in 2021, future segments to follow based on available funding



Questions & Discussion

Frequently Asked Questions (FAQ):

Q: IS MY HOUSE IN THE FLOODPLAIN?

A: Parts of some property might be within the floodplain, but not necessarily the structure. However, FEMA and lenders typically consider a <u>structure</u> to be located in the floodplain if the <u>property boundary</u> touches the floodplain, except when documentation can be provided to FEMA that shows the <u>structure</u> within that property is sufficiently elevation above the 100 year flood elevation. The City has created a map comparing the FEMA floodplain boundary to property boundaries which is available here: <u>Jordan Floodplain Mapping Evaluation</u>. This map primarily illustrates <u>properties</u> which are located within or touch the floodplain, but not necessarily the <u>house or structure</u>, which depends on the lowest opening/adjacent ground elevation of the structure as compared to the 100 year flood elevation. The City of Jordan Flood Mapping Resident Support Program will help with these structure documentation efforts and submittals to FEMA.

Q: WILL THE CITY'S PROGRAM REDUCE MY FLOOD INSURANCE PREMIUMS?

A: The City's program outlined on this site is intended to either eliminate or reduce flood insurance premiums for participating properties. Outside of this program, comparison between current premiums and future premiums will also be heavily influenced by what happens with subsidies for the National Flood Insurance Program (NFIP). Flood insurance premiums are on the rise as federal subsidies for the NFIP are being phased out. As subsidies from the federal

- Check out the FAQ section on the website!
- www.jordanmnengineering.com



