ATTENTION: THE LEVEE, DIKE, OR OTHER STRUCTURE INSIDE THIS BOUNDARY HAS NOT BEEN SHOWN TO COMPLY WITH SECTION 65.10 OF THE NEIP REGULATIONS. AS SUCH, THIS FIRM PANEL WILL BE REVISED AT A LATER DATE TO UPDATE THE FLOOD HAZARD INFORMATION ASSOCIATED WITH THIS STRUCTURE. THE FLOOD HAZARD DATA SHOWN INSIDE THIS BOUNDARY (WHICH HAS BEEN REPUBLISHED FROM THE AUGUST 5, 1986 FIRM) FOR THE CITY OF KANSAS CITY, SHOULD CONTINUE TO BE USED UNTIL THIS FIRM IS REVISED TO UPDATE THE FLOOD HAZARD INFORMATION IN THIS AREA.
Cannon-Mackey, Shari

Subject: FW: East Bottoms, Berkley Park

From: Kimes, Thomas <Tom.Kimes@kcmo.org>
Sent: Thursday, August 6, 2020 10:57 AM
To: Cannon-Mackey, Shari <scannonmackey@burnsmcd.com>; Lopez, Jose <Jose.Lopez@kcmo.org>
Cc: Beth Held (beth.held@dot.gov) <beth.held@dot.gov>; Sarson, Julie <jsarson@burnsmcd.com>; Thurston, David H (Dave) <dhthurston@burnsmcd.com>; Walton, James <James.Walton@kcmo.org>
Subject: RE: East Bottoms, Berkley Park

The schedule is to have effective maps in February 2023.

Thanks,
Tom Kimes
Manager, Stormwater Engineering
KC Water
816.522.8606 (mobile)

From: Kimes, Thomas <Tom.Kimes@kcmo.org>
Sent: Thursday, August 6, 2020 11:51 AM
To: Cannon-Mackey, Shari <scannonmackey@burnsmcd.com>; Lopez, Jose <Jose.Lopez@kcmo.org>
Cc: Beth Held (beth.held@dot.gov) <beth.held@dot.gov>; Sarson, Julie <jsarson@burnsmcd.com>; Thurston, David H (Dave) <dhthurston@burnsmcd.com>; Walton, James <James.Walton@kcmo.org>
Subject: Re: East Bottoms, Berkley Park

The 2017 FIRM is the regulatory map, so you should base your work on that until the proposed map has gone through the process.

Thanks,
Tom Kimes
Stormwater Engineering Manager
KC Water
(816) 522-8606 (mobile)

From: Lopez, Jose <Jose.Lopez@kcmo.org>
Sent: Wednesday, August 5, 2020 1:23 PM
To: Cannon-Mackey, Shari <scannonmackey@burnsmcd.com>; Kimes, Thomas <Tom.Kimes@kcmo.org>
Cc: Beth Held (beth.held@dot.gov) <beth.held@dot.gov>; Sarson, Julie <jsarson@burnsmcd.com>; Thurston, David H (Dave) <dhthurston@burnsmcd.com>; Walton, James <James.Walton@kcmo.org>
Subject: RE: East Bottoms, Berkley Park

Shari,

We have a meeting tomorrow morning with FEMA and Stantec about the mapping data we provided on June 1st, 2020. I believe we’ll have more information on the next steps and what we can provide after tomorrow’s meeting.

Thank you,
FEMA has been working with Stantec and Wood PLC on efforts relating to completion of the Accreditation process.

I’m going to refer you to the Project Manager for this effort, Jose Lopez and our Storm Utility Officer, Thomas Kimes.

Please work with Jose Lopez on status and information updates from here on out, as he will be more up to date than I. Jose, anything you need me to do, just let me know sir and thanks.

At this time meetings are being scheduled with FEMA, Stantec and City for further discussion of draft products.

If you would, please provide your most needed information and schedule deadlines. This can help us in discussions to get better information.

The accreditation process goes through a long public process, so adoption is not going to occur soon, however draft or public review documents may become available, and will be publically provided at some point and could assist you in your efforts relating to the Street Car.
Touching base to see if you have any new information on the approval of the levee accreditation in the area of the Berkeley Riverfront. We are wanting to complete the environmental review for the proposed streetcar extension and this is a critical piece of the puzzle.

We appreciate any update you can provide.

Shari Cannon-Mackey, CEP, ENV SP \ Burns & McDonnell
NEPA & Environmental Planning Lead – Environmental Services
O 512-872-7132 \ M 512-750-2475
scannonmackey@burnsmcd.com \ burnsmcd.com

From: Cannon-Mackey, Shari
Sent: Thursday, July 30, 2020 8:11 AM
To: james.walton@kcmo.org
Cc: Beth Held (beth.held@dot.gov) <beth.held@dot.gov>
Subject: FW: East Bottoms, Berkley Park

James –

Julie Sarson shared the info you provided below regarding the Riverfront area. We are working with the Federal Transit Administration (FTA) to obtain approval for the extension of the streetcar line from 3rd/Grand to the Berkley Riverfront Development and need to provide an update on the levee accreditation for the area under Executive Order 11988 Floodplain Management. It was our understanding that the accreditation approval would hopefully occur by the end of July. Could you share the approval or the status of it with us to incorporate into our environmental document? I’ve included the current write-up we have which will be revised per your input.

Please let me know if you have any questions – I appreciate your help.

Shari Cannon-Mackey, CEP, ENV SP \ Burns & McDonnell
NEPA & Environmental Planning Lead – Environmental Services
O 512-872-7132 \ M 512-750-2475
scannonmackey@burnsmcd.com \ burnsmcd.com
8911 N Capital of Texas Highway \ Suite 3100 \ Austin TX 78759

Executive Order 11988, “Floodplain Management” directs Federal agencies to avoid conducting, allowing, or supporting actions in a floodplain. If a proposed project is located within a floodplain, a detailed analysis should be completed to discuss the risk to, or resulting from, the impacts on natural and beneficial floodplain values, the degree to which the action provides direct or indirect support for development in the floodplain, and measures to minimize hard or to restore or preserve the floodplain values that would be affected by the project.

According to the Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM), the Riverfront Extension Project is primarily in a section located within the Berkley Riverfront, and situated in a Zone X, outside of the Special Flood Hazard Area (SFHA) in an area with reduced flood risk due to a levee, as indicated on FIRM Panel No 29095C0252G effective January 20, 2017. The current elevation of much of the area, now under development, was achieved with the placement of fill materials in the 1990s. The City of Kansas City, Missouri is nearing the end of a two-year process working with FEMA to receive levee accreditation in this area. The FIRM indicates the levee currently does not demonstrate compliance with 65.10 of the National Flood Insurance Program (NFIP), and is being evaluated under FEMA’s levee accreditation process for compliance, with a draft completion expected July 2020. A Floodplain Development Permit from Jackson County may be required for construction of the Project pending the results of the levee analysis.
I do not know if this sufficiently answers your question...I don’t really understand the accreditation process but there must be a distinction between levee certification and interior drainage flood hazard. You could use language similar to below in your response to FTA:

The City of Kansas City, Missouri is the levee owner. According to KCMO staff familiar with the process, the levee certification in the vicinity of the project was approved several years ago. That approval began FEMA’s, generally 2-year, Accreditation Process where FEMA updates the interior drainage flood zones within the levee. This process has not completed. It is anticipated to be completed in draft form by end of July 2020.

Julie Sarson
O 816-276-1593 \ M 816-838-7667
jsarson@burnsmcd.com

Levee Certification was approved several years back.
That Approval began FEMA’s, generally 2 year, Accreditation Process where FEMA updates the interior drainage flood zones within the levee. This process has not completed. It should complete in a draft form by end of July 2020.

In the meantime the below City modeling work in 1D/2D form using all combined and storm systems, inlets and terrain and using Missouri River and pump station curves and systems to determine flooding is provided with labels for flood depth and water surface flood elevations. Each triangle has flood depths and water surface flood elevations. This is not the FEMA flood zone to come.

There are notable flood risks identified by the City’s efforts to update flood risk information using Infoworks ICM 1D/2D methods here.

The below has labels for both depth of water and water surface elevation of water. Labeling is limited and scattered. Only a small number of labels have generated here.
Hello James. We spoke a couple of years ago about the FEMA accreditation of the riverfront area, FIRM panel attached. Burns & McDonnell is finalizing the CATEX for the streetcar Riverfront Extension project and we need to verify the status of the levee certification as a part of this environmental document. Part of the Riverfront Extension project is located in the area designated Zone X on the FIRM panel; can you verify the status of this area, as described in the red box?

Thank you for your assistance.

Julie Sarson, PE | Burns & McDonnell
Project Manager | Transportation
Office 816-276-1593 | Mobile 816-838-7667
jsarson@burnsmcd.com | burnsmcd.com
9400 Ward Parkway | Kansas City, MO 64114
Below is a read/copy ftp link method to download the GIS data we have for your area.

ALL Data is only for BurnsMcd use for City Rail related efforts in the East Bottoms. Further use for other forms of use can be granted by request. E-mail for permission. BurnsMcd may provide this data for specific engineering needs to consulting firms for use specifically only for the approved uses. This data may not be provided to any other parties by any entities without City permission. This data is not technically draft, but is also not yet final via FEMA accreditation process. This quasi draft nature, means the data is not yet ready for public consumption and more work is needed, potentially by FEMA and potentially by the City with relation to FEMA.

You want data from:

**East Bottoms**

And

From:

**AllRiverfront**

East Bottoms is more modeling outputs for KCMO’s interior drainage update for FEMA accreditation. This GIS has modeled floods, velocities, flood depths and flood elevations for your use for the coincident storm event that FEMA will use for determining the final revised Flood Zones they are working to create and adopt from their Accreditation Process. This process began on 10-1-2017 and is estimated to take at least 2 years to complete. Once completed it will tend to be based from these GIS products and their flooded areas and flood elevations provided, which will be used for development of A(H, A(O) Zones within East Bottoms.

The “AllRiverfront” folder has added supporting GIS of a larger area, including the East Bottoms. This has waterline and wastewater and stormwater lines and some facility information. This data also may only be used for your or your sub-contractor’s Rail based efforts.

The data can be downloaded from this FTP Link:

ftp://kcmoswea1:kcmocntrl@ftp.kcmo.org/files/WS/WSD/SWEA/Riverfront/

**Items of most import to you:**

1.) 2D Zones Coincident 2yr MO River 100-yr Interior Accredidation.zip (this calls out in polygon triangles the flood elevations and depths for the East Bottoms.
2.) Links Storm and Combined pipes.zip   This has modeled outputs on the attribution (just like 1.) max flows, max velocities. Negative values indicate flows in the opposite direction being maximum. The direction that is may require check of the modeling. but Jon Gray’s work is good enough that I would say it is correct to assume negative is up pipe slope and positive is with slope by gravity. Check pipes.

3.) Nodes for inlets and manholes.zip   This is also model output data and will identify inverts of pipe systems between Links. Again, per 2.) the direction the nodes show to be downslope for a link pipe is the direction of positive flow. If flow is negative, it is reversing due to pressure.

4.) Neiddem1m.zip 1 meter DEM with elevations per sq. meter. 2006 LiDAR

5.) Neidhlshd.zip 1 meter hillshading of terrain to visually assist in seeing the valleys.

6.) Contours1ftldr.zip 1 ft contour lines developed from the Neiddem1.zip raster data.

7.) Pump.zip Locations for storm pumps to pump over MO River flood waters.

8.) Subcatchments Not Accurate.....zip This shows the boundaries that prior consultants thought flow and flow paths were controlled by. Much of this data has proven to not be correct.

Other products exist.