# COMMISSION ON STORM WATER ISSUES
# VIA VIDEOCONFERENCE
**Tuesday, February 1, 2022**
**6:30 p.m.**

## IMPORTANT NOTICE REGARDING PUBLIC ACCESS & PARTICIPATION

On March 20, 2020, City Manager Gregory Rose declared a State of Emergency for the City of University City due to the COVID-19 Pandemic. Due to the ongoing efforts to limit the spread of the COVID-19 virus, the February 1, 2022 meeting will be conducted via videoconference.

**Observe and/or Listen to the Meeting** (your options to join the meeting are below):

**Webinar** via the link below:

https://us02web.zoom.us/j/85914522546?pwd=eE1MQWtpRU16aEV5K1lNd1RDankxUT09

Password: 644883

**Audio Only Call**

iPhone one-tap :
US: +13017158592,,85914522546# or +13126266799,,85914522546#

Or Telephone:
US: +1 301 715 8592 or +1 312 626 6799 or +1 929 205 6099 or +1 253 215 8782 or +1 346 248 7799 or +1 669 900 6833 or 877 853 5247 (Toll Free) or 888 788 0099 (Toll Free)
Webinar ID: 859 1452 2546

**Citizen Participation and Public Hearing Comments:**
Those who wish to provide a comment during the "Citizen Participation" portion as indicated on the agenda; may provide written comments to Sinan Alpaslan ahead of the meeting.

ALL written comments must be received **no later than 12:00 p.m. the day of the meeting.** Comments may be sent via email to: salpaslan@ucitymo.org, or mailed to the City Hall – 6801 Delmar Blvd. – Attention: Sinan Alpaslan. Such comments will be provided to Board/Commission member prior to the meeting. Comments will be made a part of the official record and made accessible to the public online following the meeting.

Please note, when submitting your comments, a **name and address must be provided.** Please also note if your comment is on an agenda or non-agenda item. If a name and address are not provided, the provided comment will not be recorded in the official record.

The City apologizes for any inconvenience the meeting format change may pose to individuals, but it is extremely important that extra measures be taken to protect employees, residents, and elected officials during these challenging times.

# A G E N D A
# COMMISSION ON STORM WATER ISSUES MEETING

**February 1, 2022 at 6:30 p.m.**
**Via Zoom**

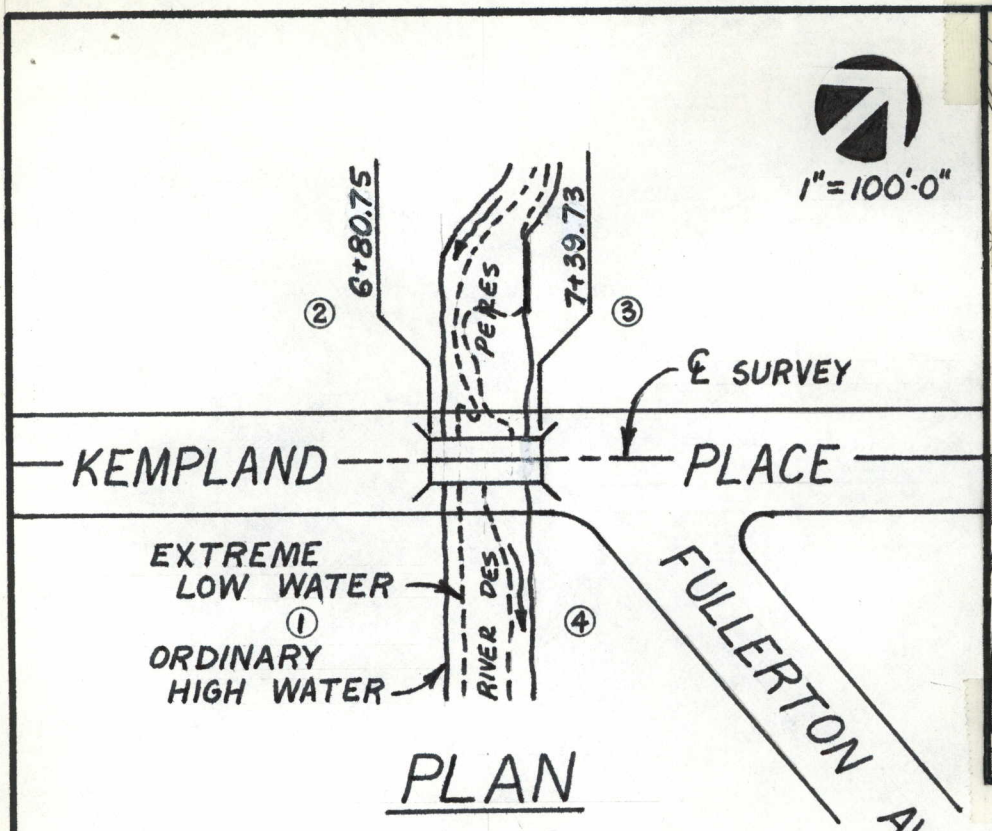
1. **MEETING CALLED TO ORDER**
2. **ROLL CALL**
3. **APPROVAL OF AGENDA**
4. **APPROVAL OF MINUTES**
5. **ANNOUNCEMENTS**
6. **CITIZEN PARTICIPATION**

***Procedures for submitting comments for Citizen Participation and Public Hearings:***
ALL written comments must be received **no later than 12:00 p.m. the day of the meeting**. Comments may be sent via email to: salpaslan@ucitymo.org, or mailed to the City Hall – 6801 Delmar Blvd. – Attention: Sinan Alpaslan. Such comments will be provided to the Commission on Storm Water Issues members prior to the meeting. Comments will be made a part of the official record and made accessible to the public online following the meeting *Please note, when submitting your comments, a **name and address must be provided**. Please also not if your comment is on an agenda or non-agenda item. If a name and address are not provided, the provided comment will not be recorded in the official record.*

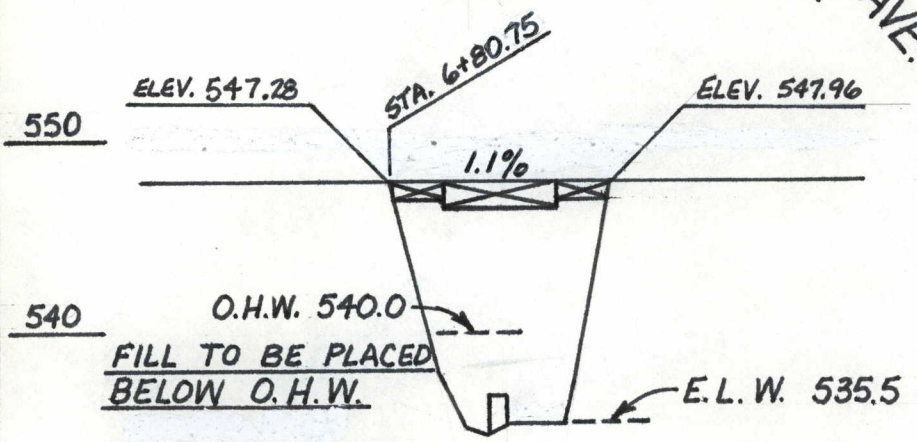
7. **NEW BUSINESS**
   a. Proposal for replacement of roadway bridge on Kempland Pl. – Update to Commission (See Attachment #1)
   b. Capital Improvement Program (CIP) budget proposals - Discussion
   c. Association of State Flood Plain Managers Call for Nominations for 2022 Awards – Discussion (See Attachment #2)
   d. Future in-person Commission meetings - Discussion
8. **OLD BUSINESS**
9. **SUBCOMMITTEE REPORTS**
   a. Communications
   b. Army Corps Study (See Attachment #3)
   c. Flood Early Warning System
10. **COUNCIL LIAISON COMMENTS**
11. **OTHER BUSINESS**
12. **ADJOURNMENT**

Please call (314) 505-8572 or email salpaslan@ucitymo.org to confirm your attendance.

ATTACHMENT #1

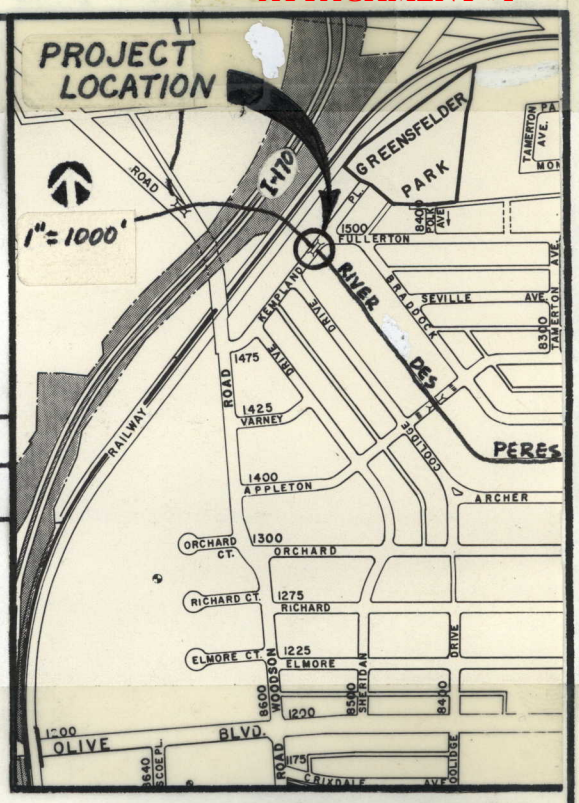



## PLAN



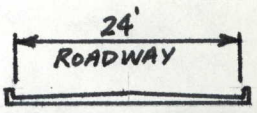

## ℄ SECTION

VERTICAL: 1"=10' HORIZONTAL: 1"=50'




## LOCATION MAP

FROM: UNIVERSITY CITY STREET MAP; ST. LOUIS COUNTY, MO.




TYPICAL SECTION
PROPOSED BRIDGE

PURPOSE: BRIDGE WIDENING AND IMPROVEMENT

DATUM: MEAN RIVER LEVEL

ADJACENT OWNERS:
① JAMES AND LETHA MIXON
② STEPHAN MORET
③ RONALD McKEE
④ THADDEUS AND SHERWIN SMITH

PROPOSED REHABILITATION OF KEMPLAND BRIDGE OVER RIVER DES PERES
APPROXIMATELY 700' NE OF WOODSON ROAD
ST LOUIS COUNTY, MISSOURI

APPLICATION BY: CITY OF UNIVERSITY CITY

SHEET: 1 OF 1 DATE: 5-16-85


4320001 12-03-2019
Kempland Pl. over Rvr. Des Peres
City of University City
Top of Deck, Looking South


4320001 12-03-2019
Kempland Pl. over Rvr. Des Peres
City of University City
North Deck Joint


4320001 12-03-2019
Kempland Pl. over Rvr. Des Peres
City of University City
Fourth Girder from West
at South Abutment, Pack Rust


4320001 12-03-2019
Kempland Pl. over Rvr. Des Peres
City of University City
South Intermediate Bent, North Face


4320001 12-03-2019
Kempland Pl. over Rvr. Des Peres
City of University City
Looking Upstream


4320001 12-03-2019
Kempland Pl. over Rvr. Des Peres
City of University City
Looking Dowstream


4320001 12-03-2019
Kempland Pl. over Rvr. Des Peres
City of University City
North Intermediate Bent, South Face


4320001 12-03-2019
Kempland Pl. over Rvr. Des Peres
City of University City
Fifth Girder From West
at North Abutment, Pack Rust

# Missouri Department of Transportation
# Bridge Inventory and Inspection System
# Non-State Structure Inspection Report

December 20, 2019
1:39:07pm

**County :** ST. LOUIS **District :** SL **Class :** NONSTATBR **Bridge :** 4320001 1 **Federal ID :** 23777

## GENERAL STRUCTURE INFORMATION

| | | | |
|---|---|---|---|
| [5D] Route : | 00000 | [41] Structure Status : | P-LOAD POSTED W/RESTRICT |
| [4] Place Code : | 75220 UNIVERSITY CITY CITY | [9] Location : | S 0 T 0 R 0 |
| [6] Features Intersected : | RVR DES PERES | [22] Owner : | CITY |
| [7] Facility Carried : | KEMPLAND PLACE | [26] Functional Classification : | ULOCAL |
| [16] Latitude : | 38 40 50.73 (DMS) | [21] Maintenance Responsibility : | CITY |
| [17] Longitude : | 90 21 18.85 (DMS) | [11] Milepoint : | 0.10 MILES |

## AGE AND SERVICE - GEOMETRIC DATA - MATERIAL

| | | | |
|---|---|---|---|
| [27] Year Built : | 1950 | [106] Year Reconstructed : | 1988 |
| [49] Structure Length : | 51 FT. | [51] Bridge Width : | 24 FT. 0 IN. |
| [32] Approach Roadway Width : | 30 FT. 0 IN. | [52] Deck Width : | 31 FT. 2.4 IN. |
| [42B] Type of Service Under : | WATERWAY | [28A] Lanes On : | 2 |
| [19] Detour Length : | 0.62 MILES | [28B] Lanes Under : | 0 |

| COMPONENTS | # SPANS | PRED | MATERIAL | CONSTRUCTION |
|---|---|---|---|---|
| MAIN SERIES | 3 | X | STEEL | WIDE FLANGE GIRDERS |
| [107] Deck Type : | | | REINCONC | CIP |
| [108A] Wearing Surface : | | | EPOXYPOLYM | EPOXYPOLYM |
| [108B] Membrane : | | | NOTAPPLIC | NONE |
| [108C] Deck Protection : | | | EPOXYPOLYM | COATREBAR |

## AADT INFORMATION

| | | | | | |
|---|---|---|---|---|---|
| [29] AADT on Structure : | 2,100 | [30] Year : | 2018 | [109] AADT Truck : | 3 % |
| [114] Future AADT : | 2,835 | [115] Year : | 2038 | [102] Direction of Traffic : | 2-WAY TRAFFIC |

## STRUCTURE POSTING

**FIELD POSTING** Problem Code : Problem Direction Code :
Category : S-3 WEIGHT LIMIT 35 TONS.
Ton 1 : 35 Ton 2 : Ton 3 :

**APPROVED POSTING**
Category : S-1 NO POSTING REQUIRED
Ton 1 : Ton 2 : Ton 3 :

## COMPUTER GENERATED DEFICIENCY AND EVALUATION ITEMS

NOTE: The items listed in this section are updated whenever computer edits are ran on a structure after the inspection updates have been entered in to TMS.

| Rated Item | Rating | Rating Date |
|---|---|---|
| [Item 67] Structure Evaluation Rating: | 5-BETTER THAN MINIMUM | 12/24/2013 |
| [Item 68] Deck Geometry Rating: | 2-BASICALLY INTOLRBLE REQ | 6/6/2002 |
| [Item 69] Underclearance: | N-NOT APPLICABLE | 3/1/2002 |
| **Sufficiency Rating:** | 67.8 % | 12/24/2013 |
| **Deficiency:** | FUNCTIONAL | 6/6/2002 |
| **Funding Eligibility:** | PARTIAL | 5/29/2019 |
| **Estimated New Structure Length:** | 72 FT. | 5/29/2019 |
| **Estimated Structure Cost:** | $187,977 | 5/29/2019 |
| **Estimated Total Project Cost:** | $281,965 | 5/29/2019 |
| **Year of Cost Estimate:** | 2019 | 5/29/2019 |

NOTE: The above structure length and cost estimates are computer generated using algorithims in the TMS system. These algorthims are generalized to use NBI items to come up with a new structure length and width to calculate a new area which is taken times a representative cost per square foot. The actual structure size and cost may vary significantly from these numbers once site specific engineering is done.

# Missouri Department of Transportation
# Bridge Inventory and Inspection System
# Non-State Structure Inspection Report

**County :** ST. LOUIS **District :** SL **Class :** NONSTATBR **Bridge :** 4320001 1 **Federal ID :** 23777

## ****STRUCTURE GENERAL INSPECTION****

**[90] Inspection Type:** GENERAL **[91] Designated Frequency:** 24 **Inspection Responsibility:**
**Inspection Date:** 12/3/2019 **** Calculated Frequency:** 24 **Element Inspection Required:** NO

** If designated interval is exceeded, then a comment providing justification must be added. Exceeding the interval by more than one month requires Bridge Division approval.

**General Inspection Comments**

| Inspector | Team Leader | Organization |
|---|---|---|
| RYAN SEMAR | X | MODOT |
| ZACHARY EVANS | | MODOT |

## ****UNDERWATER INSPECTION****

**Inspection Category:** SHALLOW-WADE **[92B] Designated Frequency:** 60 **Inspection Responsibility:** DISTRICT
**Inspection Date:** 12/3/2019 ****Calculated Frequency:** **NBI:** NO

** If designated interval is exceeded, then a comment providing justification must be added. Exceeding the interval by more than one month requires Bridge Division approval.

**Underwater Inspection Comments**

| Inspector | Team Leader | Organization |
|---|---|---|
| RYAN SEMAR | X | MODOT |
| ZACHARY EVANS | | MODOT |

## ****SPECIAL INSPECTION****

**Inspection Category:** CHANNEL CROSS SECTIONS **[92C] Designated Frequency:** 120 **Inspection Responsibility:**
**Inspection Date:** 5/22/2015 ****Calculated Frequency:** **NBI:** NO

** If designated interval is exceeded, then a comment providing justification must be added. Exceeding the interval by more than one month requires Bridge Division approval.

**Special Inspection Comments**

| Inspector | Team Leader | Organization |
|---|---|---|
| LAURA CAMPBELL | | MODOT |
| MATTHEW GEIGER | | MODOT |

## ****OTHER SPECIAL INSPECTIONS****

| Category | Frequency | Calculated Frequency** | Date | Inspection Responsibility | NBI |
|---|---|---|---|---|---|

** If designated interval is exceeded, then a comment providing justification must be added. Exceeding the interval by more than one month requires Bridge Division approval.

**County :** ST. LOUIS **District :** SL **Class :** NONSTATBR **Bridge :** 4320001 1 **Federal ID :** 23777

## ****GENERAL COMMENTS AND CONDITION RATINGS****

**General Comments :**
(CAMPBL1, 12/18/2015)--UNIVERSITY CITY: 3-SPAN, (12)MULTI SIZED STRINGERS W/ CONTINUOUS CIP CONC DECK (W/ EPO).

**[Item 58]--Deck Condition Rating:** 6-SATISFACTORY CONDITION **Rating Date:** 12/18/2015

Deck Rating Comments

(CAMPBL1, 12/18/2015)-- FEW T-CRACKS WITH EFFLORESCENCE IN LEFT SIDEWALK OVERHANG.

(CAMPBL1, 12/18/2015)--MANY MINOR T-CRACKS AND LT EFFL & MINOR LEACHING IN BOTTOM OF DECK.

(SEMARR1, 12/18/2019)--EPOXY POLYMER OVERLAY PLACED IN 2002. EPO IN POOR CONDITION,- FEW MINOR T & L CRACKS REFLECTING THRU & MULTIPLE MINOR AREAS STRIPPING

**[Item 59]--Superstructure Condition Rating:** 5-FAIR CONDITION **Rating Date:** 12/24/2013

Superstructure Rating Comments

(CAMPBL1, 12/18/2015)--MEDIUM PAINT PEELING

(SEMARR1, 12/27/2017)--GIRDERS OVERCOATED WITH CALCIUM SULFONATE ON 11/2001.

(SEMARR1, 12/18/2019)--SOUTH SPAN, GIRDERS AT SOUTH INT. BENT, TOP FLANGE, RUST.
SOUTH SPAN, GIRDERS 4, 5, 8, 9 AND 10 AT SOUTH ABUTMENT, BOTTOM FLANGE, MOD PACK RUST.

NORTH SPAN, GIRDERS 4-10, TOP FLANGE RUST.
NORTH SPAN, GIRDERS 5-12 AT NORTH ABUTMENT, BOTTOM FLANGE, MODERATE PACK RUST.
(SEMARR1, 12/18/2019)--MINOR SECTION LOSS IN GIRDERS 5,6,8,10,11,12 FROM WEST IN WEB AT NORTH ABUT W/ MOD PACK RUST FOR LOWER 3" X 6" LONG.
MODERATE PACK RUST & INT SECTION LOSS IN BOTTOM FLANGE ALL GIRDERS, SOUTH SPAN @ SOUTH ABUTMENT.
INT SECTION LOSS IN LOWER 3" OF WEB @ GIRDER END SOUTH SPAN G4 FROM WEST.

**[Item 60]--Substructure Condition Rating:** 6-SATISFACTORY CONDITION **Rating Date:** 12/19/2007

**Compass Direction:** SOUTH to NORTH

Substructure Rating Comments

(GEIGEM1, 12/24/2013)--MINOR N ABUT SPALL AT BEARING.

(CAMPBL1, 12/18/2015)--STONE WEB WALLS.

(CAMPBL1, 12/18/2015)--MODERATE VERTICAL CRACK ON SOUTH INTERIOR BENT W/ LT RUST STAINS.

(CAMPBL1, 12/18/2015)--FEW MINOR SPALLS W/ REBAR EXPOSED AT S INT BT.

(SEMARR1, 12/18/2019)--UNFORMED REPAIRS TO INTERIOR BENT CAPS - MOD HORIZONTAL CRACKS UNDER BEARING AND MINOR DELAMS IN PATCH AREAS; MINOR RUST STAINS. MINOR SPALLS/DELAMINTIONS.
(SEMARR1, 12/18/2019)--SOUTH ABUTMENT, MINOR DELAMINATIONS AND VERTICAL CRACKS WITH EFFLORESCENCE

**[Item 61]--Channel Condition Rating:** 6-WIDESPREAD MINOR DAMAGE **Rating Date:** 12/17/2003

Rating Comments

(GEIGEM1, 12/24/2013)--GRAVEL DEPOSIT UNDER BRIDGE PUSHES CHANNEL AT S INT BT W/ MINOR UNDERMINING OF GROUTED SLOPE.

(GEIGEM1, 02/24/2016)--LARGE CONCRETE BLOCKS & DEBRIS IN CHANNEL CAUSING MINOR FLOW RESTRICTION.

**County :** ST. LOUIS **District :** SL **Class :** NONSTATBR **Bridge :** 4320001 1 **Federal ID :** 23777

**[Item 62]--Culvert Condition Rating:** N-NOT APPLICABLE **Rating Date:** 03/01/2002

Rating Comments

**County :** ST. LOUIS **District :** SL **Class :** NONSTATBR **Bridge :** 4320001 1 **Federal ID :** 23777

## ****APPRAISAL RATINGS****

**[Item 36A]--Bridge Railing Appraisal:** MEETS CURRENT STANDARDS-1 **Rating Date:** 03/01/2002
Rating Comments
(ALLBRD1, 12/19/2007)--R.C. SAFETY BARRIER

**[Item 36B]--Transition Railing Appraisal:** NOT PROVIDED-0 **Rating Date:** 03/01/2002
Rating Comments

**[Item 36C]--Approach Railing Appraisal:** NOT PROVIDED-0 **Rating Date:** 03/01/2002
Rating Comments

**[Item 36D]--Rail End Treatment Appraisal:** NOT PROVIDED-0 **Rating Date:** 03/01/2002
Rating Comments

**[Item 71]--Waterway Adequacy:** DECK ABOVE FLOOD ELEV **Rating Date:** 03/01/2002
Rating Comments

**[Item 72]--Approach Roadway Alignment:** 8-VERYGOOD **Rating Date:** 03/01/2002
Rating Comments
(SEMARR1, 12/18/2019)--NO SPEED REDUCTION

**[Item 113]--Scour Assessment:** 8-STABLE FOR CALCULATED **Rating Date:** 12/15/2009
**Type of Scour Evaluation:**
Rating Comments
(SEMARR1, 12/18/2019)--NO SCOUR OBSERVED

**Work Comments :**
(GEIGEM1, 12/24/2013)--FLUSH DECK YEARLY.
(GEIGEM1, 12/24/2013)--REMOVE GRAVEL DEPOSIT UNDER BRIDGE TO REALIGN CHANNEL.
(GEIGEM1, 12/24/2013)--MUDJACK VOID UNDER SIDEWALK AT NW CORNER.
(CAMPBL1, 12/18/2015)--REPLACE SILICONE JOINT AT NORTH ABUT LEADING TO RUSTING GIRDER ENDS W/ PREFORMED COMPRESSION JOINT SEAL.
(CAMPBL1, 12/18/2015)--CLEAN & PAINT RUSTY WEBS & FLANGES AT GIRDER END.
(CAMPBL1, 12/18/2015)--HOT POUR LEAKING DECK/APPR JOINTS @ SOUTH ABUTMENT LEADING TO RUSTING GIRDER ENDS
(SEMARR1, 12/18/2019)--CONSIDER NEW EPOXY OVERLAY

**County :** ST. LOUIS **District :** SL **Class :** NONSTATBR **Bridge :** 4320001 1 **Federal ID :** 23777

**From:** Sinan Alpaslan
**To:** Gregory Rose
**Subject:** Grant application for Kempland Bridge replacement
**Date:** Thursday, December 9, 2021 3:59:08 PM

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Mr. Rose – this is in regards to an application to East West Gateway for a surface transportation program project. The application term is open and they are due on February 10.

After the last year's application and its consequent approval for Pershing Ave. Resurfacing, we only had short sections of Etzel Ave. and Kingsland Ave. remaining for a repaving project. However, an upcoming bridge infrastructure need is in competition with that as follows:

Kempland Bridge is now classified as functionally deficient (no need to reduce use on it or additional precautions at this time) and its sufficiency rating is 67.8%. This is a tall steel girder structure with a longer span, which, when old and deficient, is very expensive to maintain. Its estimated cost for replacement is $450K per 2019 dollars. If we go for a grant, 80% of such funding will be borne by the Federal-aid program in the Federal fiscal years 2023 through 2026.

I would recommend the bridge project as it is at a competitively priced level at this point before further deterioration and the agency doesn't distinguish between bridge and repaving projects as they used to do. If we can get approved for the bridge replacement this time around, then we can put the repaving jobs back in the next time since they are shorter sections and even a price escalation would not have a large impact for those jobs. All the above-listed options for a grant application are located in University City Ward 3.

Please let me know if you require any additional information in this matter.

Respectfully,

**Sinan Alpaslan, P.E.**
*Director of Public Works*
City of University City
6801 Delmar Boulevard
University City, MO 63130
P: 314.505.8572 | www.ucitymo.org

material from any computer.

# PROCEDURES FOR "NO-RISE" CERTIFICATION FOR PROPOSED DEVELOPMENTS IN ADOPTED REGULATORY FLOODWAYS

Section 60.3 (d) (3) of the National Flood Insurance Program (NFIP) regulations states that a community shall "prohibit encroachments, including fill, new construction, substantial improvements, and other development within the adopted regulatory floodway unless it has been demonstrated through hydrologic and hydraulic analyses performed in accordance with standard engineering practice that the proposed encroachment would not result in any increase in flood levels within the community during the occurrence of the base (100-year) flood discharge."

Prior to issuing any building grading or development permits involving activities in a regulatory floodway, the community must obtain a certification stating the proposed development will not impact the pre-project base flood elevations, floodway elevations, or floodway data widths. The certification should be obtained from the permittee and be signed and sealed by a professional engineer.

The engineering or "no-rise" certification must be supported by technical data. The supporting technical data should be based upon the standard step-backwater computer model utilized to develop the 100-year floodway shown on the community's effective Flood Insurance Rate Map or Flood Boundary and Floodway Map (FBFM) and the results tabulated in the community's Flood Insurance Study (FIS).

Although communities are required to review and approve the "no-rise" submittals, they may request technical assistance and review from the FEMA regional office. However, if this alternative is chosen, the community must review the technical submittal package and verify that all supporting data, listed in the following paragraphs, are included in the package before forwarding to FEMA.

To support a "no-rise" certification for proposed developments encroaching into the regulatory floodway, a community will require that the following procedures be followed:

Currently Effective Model

1. Furnish a written request for the step-backwater computer model for the specified stream and community, identifying the limits of the requested data. A fee will be assessed for providing the data. Send data requests to:

   Federal Emergency Management Agency
   3003 Chamblee Tucker Road
   Atlanta, Georgia 30341

   or to:

FIS Information Specialist
Dewberry & Davis
8401 Arlington Boulevard
Fairfax, Virginia 22031—4666

Duplicate Effective Model

2. Upon receipt of the step-backwater computer model, the engineer should run the original step-backwater model to duplicate the data in the effective FIS.

Existing Conditions Model

3. Revise the original step-backwater model to reflect site specific existing conditions by adding new cross-sections (two or more) in the vicinity of the proposed development, without the proposed development in place. Floodway limits should be manually set at the new cross-section locations by measuring from the effective FIRM or FBFM. The cumulative reach lengths of the stream should also remain unchanged. The results of these analyses will indicate the 100-year floodway elevations for revised existing conditions at the proposed project site.

Proposed Conditions Model

4. Modify the revised existing conditions model to reflect the proposed development at the new cross-sections, while retaining the currently adopted floodway widths. The over-bank roughness coefficients should remain the same unless a reasonable explanation of how the proposed development will impact Manning's "n" values should be included with the supporting data. The results of this floodway run will indicate the 100-year floodway elevations for proposed conditions at the project site. **These results must indicate NO impact on the 100-year flood elevations, floodway elevations, or floodway widths shown in the Duplicate Effective Model or in the Existing Conditions Model.**

*The original FIS model, the duplicate effective FIS model, the revised existing conditions model, and the proposed conditions model should all produce the same exact results.*

The "no-rise" supporting data and a copy of the engineering certification must be

submitted to and reviewed by the appropriate community official prior to issuing a permit.

The “no-rise” supporting data should include, but may not be limited to:

a. Duplicate of the original FIS step-backwater model printout or floppy disk.

b. Revised existing conditions step-backwater model.

c. Proposed conditions step-backwater model.

d. FIRM and topographic map, showing floodplain and floodway, the additional cross-sections, the site location with the proposed topographic modification superimposed onto the maps, and a photocopy of the effective FIRM or FBFM showing the current regulatory floodway.

e. Documentation clearly stating analysis procedures. All modifications made to the original FIS model to represent revised existing conditions, as well as

those made to the revised existing conditions model to represent proposed conditions, should be well documented and submitted with all supporting data.

f. Copy of effective Floodway Data Table copied from the FIS report.

g. Statement defining source of additional cross- section topographic data and supporting information.

h. Cross-section plots, of the added cross sections, for revised existing and proposed conditions.

i. Certified planimetric (boundary survey) information indicating the location of structures on the property.

j. Copy of the microfiche, or other applicable source, from which input for original FIS HEC-2 model was taken.

k. Floppy disk with all input files.

1. Printout of output files from EDIT runs for all three floodway models.

The engineering “no-rise” certification and supporting technical data must stipulate NO impact on the 100-year flood elevations, floodway elevations, or

floodway widths at the new cross-sections and at all existing cross-sections anywhere in the model. Therefore, the revised computer model should be run for a sufficient distance (usually one mile, depending on hydraulic slope of the stream) upstream and downstream of the development site to insure proper "no-rise" certification.

Attached is a sample "no-rise" certification form that can be completed by a registered professional engineer and supplied to the community along with the supporting technical data when applying for a development permit.

ENGINEERING "NO-RISE" CERTIFICATION

This is to certify that I am duly qualified engineer licensed to practice in the State

Of _____.

It is to further certify that the attached technical data supports the fact that

proposed _____ will not impact the 100-year flood
(Name of Development)

elevations, floodway elevations and floodway widths on _____
(Name of Stream)

at published sections in the Flood Insurance Study for _____, dated
(Name of Community)

_____ and will not impact the 100-year flood elevations, floodway

elevations, and floodway widths at unpublished cross-sections in the vicinity of

the proposed development.

_____ _____
(Date) (Signature)

_____
(Title)

SEAL: _____
(Address)

FEMA, MTD
9/01

Flood Plain Administration
Detailed Flood Study (HEC-2, HEC-RAS) Review

Community: _____ , AL Community NFIP ID No.:

Reviewed By: _____ Date: _____

Development: _____ Creek or Stream Name: _____

Engineer: _____

The Code of Federal Regulations Title 44 Chapter Subchapter B Part §60.3(d) of the National Flood Insurance Program (NFIP) states that a community shall prohibit encroachments, including fill, new construction, substantial improvements, and other development within the adopted regulatory floodway unless it has been demonstrated through hydrologic and hydraulic analysis performed in accordance with standard engineering practices that the proposed encroachment would not result in any increase in the flood levels within the community during occurrences of the base (100 year) flood discharge. In addition, Part §60.3(c)(10) requires that until a regulatory floodway is designated, that no new construction, substantial improvements, or other development (including fill) shall be permitted within Zones A1-30 and AE unless it is demonstrated that the cumulative effect of the proposed development, when combined with all other existing and anticipated development, will not increase the water surface elevation of the base flood more than one foot at any point in the community.

**The following items are to be submitted with a HEC-2 or HEC-RAS Package:**
Items checked are needed to complete the Detailed Flood Study review.

- ❑ MT-2 FEMA Form 8 1-89 SERIES, Jan 99 with instructions can be obtained from the internet at: http://www.fema.gov/library/frms.htm

- ❑ Engineering or A No-Rise certification must be submitted and supported by technical data for any project where fill or construction will take place within the floodway.

- ❑ HEC-RAS output sheets, and maps shall be sealed and signed by an Alabama licensed registered professional engineer.

- ❑ A topographic map delineating the properties, right of ways, floodplain, and floodway is required to satisfy the **flood damage prevention ordinance of _____(City/Town/County)**. Both sides of the floodplain and floodway are required to be delineated.

- ❑ Provide base map showing "x" (cross)-sections, Stations and BFE.
- ❑ Floodplain and floodway will be required to be derived from the latest version (version 2.2) of HECRAS.
- ❑ Provide photocopy of FIRM. Flood Profiles, and Floodway Data of existing study if available. Indicate project site on these photocopies.
- ❑ Revisions to existing detailed studies must use the same model used in the original study.
- ❑ Provide photocopies of any detailed study material obtained from FEMA used in the project.
- ❑ Provide project file, plan file, geometry file, run and output file, and the steady and/or unsteady flow file on a 3.5 diskette.
- ❑ Provide a narrative indicating how the Q, the starting water surface elevations, and mannings "n" were derived. Provide supporting documentation for these values.
- ❑ Provide photographic documentation for n values.
- ❑ The effective multiple discharge (10, 50, 100, and 500- year) and the floodway (100-year natural and encroached runs) models are required to be submitted.
- ❑ Provide a narrative describing input and output results.
- ❑ The new study must tie to an existing detailed study, and the tie in must be shown on mapping submitted to indicate a smooth logical transition.
- ❑ All revisions to the floodplain and floodway are to be annotated on the FIRM for use in final map revision adoption.
- ❑ Provide color x-section plots.
- ❑ Show "n" values on x-sections.
- ❑ Show both the water surface elevation and the target "1 foot" elevation on the x-section plots.
- ❑ For any flood control structures proposed, (including a channel modification) a signed letter stating maintenance responsibility and a maintenance and operation plan according to CFR 44, Parts §~6O.3(b)(7) and 65.6(a)(12) must be included.

- A request for a Letter of Map Revision from FEMA is required to be submitted to the Community along with the appropriate fee in the form of a check or money order made payable to the National Flood Insurance Program.

- The MT-2 FEMA Form I titled "Revision Requester and Community Official Form" must be completed and submitted.

- The MT-2 FEMA Form 3 titled "Hydrologic Analysis Form" must be completed and submitted.

- The MT-2 FEMA Form 4 titled "Riverine Hydraulic Analysis Form" must be completed and submitted.

- The MT-2 FEMA Form *5* titled "Riverine / Coastal Mapping Form" must be completed and submitted.

Problems associated with the completion of this form should be directed to personnel at the Hazard Identification and Risk Assessment Branch, FEMA Region IV, (770) 220-5450/5493 or contact FEMA's hotline at 1-877-336-2627.

Attached: Appropriate FEMA MT Forms (MT-1 or MT-2)

**From:** Eric Karch
**To:** Sinan Alpaslan; ucity7024@gmail.com
**Subject:** Re: ASFPM Awards program is looking for outstanding people, projects & programs to recognize
**Date:** Wednesday, January 12, 2022 8:03:43 PM
**Attachments:** ~WRD0001.jpg
image001.jpg
image.png

CAUTION: This email originated from outside your organization. Exercise caution when opening attachments or clicking links, especially from unknown senders.
Great idea ! I think we could nominate the Stormwater Commission (including our Council & Staff Liason) for the James Lee Witt Local Award for Excellence. The award deadline is Feb 10, so we have a little time yet. We could add as an agenda item for the next meeting (Feb 1) and assign people to help fill out the application. For the first 6 items, the only meaty items are:

- **Title of nominated project, program or person**
- **Reason for nominating:**

After that, below is a screenshot for supporting material. I think we could attach the report we wrote and the presentation to council, a document summarizing the early warning system progress, a document showing our articles in ROARs, ...

**From:** Sinan Alpaslan <salpaslan@ucitymo.org>
**Sent:** Wednesday, January 12, 2022 4:06 PM
**To:** Eric Karch <ekar76@hotmail.com>; ucity7024@gmail.com <ucity7024@gmail.com>
**Subject:** FW: ASFPM Awards program is looking for outstanding people, projects & programs to recognize

Eric and Todd – should nominate for this? I think a lot of the activities that the Commission is engaged in could qualify.

I know there is legwork to then complete for it to even submit for consideration, as in everything, but we can always collaborate on it.

**Sinan Alpaslan, P.E.**
*Director of Public Works*
City of University City
6801 Delmar Boulevard
University City, MO 63130
P: 314.505.8572 | www.ucitymo.org



**From:** Association of State Floodplain Managers <noreply@floods.org>
**Sent:** Wednesday, January 12, 2022 11:04 AM
**To:** Sinan Alpaslan <salpaslan@ucitymo.org>
**Subject:** ASFPM Awards program is looking for outstanding people, projects & programs to recognize

CAUTION: This email originated from outside your organization. Exercise caution when opening attachments or clicking links, especially from unknown senders.

Image removed by sender.

# Call for Nominations: 2022 ASFPM Awards

Hello Sinan,

It's time once again to celebrate the exemplary work being done throughout the nation, and we need your help.

We are now accepting nominations for the 2022 ASFPM Awards. These annual awards serve to recognize the outstanding contributions made by individuals, agencies, and organizations to keep communities safe from flood loss, promote resiliency, and advance the association's mission.

**Please preview the submission forms before submitting your nomination for the individual awards and the chapter award.** Once you're ready, you will use our online submission form to make your nomination. You will be able to attach any supporting materials such as PDFs, video links and/or letters of support through the nomination form.

**The deadline is Feb. 10, 2022**. Winners will be announced at the 2022 ASFPM Annual National Conference, May 15-19 in Orlando, FL.

Learn more about the categories below. To see the list of past winners, visit the ASFPM website.

## AWARD CATEGORIES

**Tom Lee State Award for Excellence** is given annually to recognize an outstanding floodplain management program or activity at the state level. Eligible entries include an overall program or specific outstanding products, activities, or initiatives.

**James Lee Witt Local Award for Excellence** recognizes outstanding local programs or activities at the front lines of floodplain management. Eligible entries include local units of government such as cities, towns and counties.

**Larry R. Johnston Local Floodplain Manager of the Year Award** honors outstanding individual efforts and contributions at the local level. It recognizes an individual responsible for the development of a distinguished local program or activity, or one who struggles to implement flood hazard reduction at the local level in the absence of sophisticated programs and support.

**John R. Sheaffer Award for Excellence in Flood Proofing** is presented for completed work involving a particular project,

work, research, design or publication that exhibits the incorporation of accepted procedures, practices and constraints of flood proofing, or promotes the field or knowledge of flood proofing by enhancing the awareness and use of new procedures, methods, designs and/or products. Individuals, private organizations or governmental units and agencies are eligible.

**Outreach/Media Award** acknowledges efforts of media to increase information and/or awareness of flood issues with the general public. It is also for an individual, agency or organization for exceptional outreach efforts.

**John Ivey Award for Superior Efforts in Certification** recognizes exceptional efforts to promote the professional certification of floodplain managers.

**Meritorious Lifetime Achievement in Floodplain Management Award** recognizes individuals who, throughout their career, have achieved success in a significant aspect of floodplain management. These efforts include policy, outreach, implementation, education, government, research, litigation or other actions that demonstrate the advancement of flood loss and risk reduction within the nominee's professional realm.

**Outstanding Chapter Award** recognizes an ASFPM chapter for exemplary practices and activities that deserve national recognition. It acknowledges distinguished works by a chapter in going above and beyond its mission in a way that can be shared and replicated by other ASFPM chapters.

**Goddard-White Award** is given to individuals who have had a national impact carrying forward the goals and objectives of floodplain management.

**Jerry Louthain Distinguished Service Award** is the highest award ASFPM gives to recognize individuals who, through their long-term efforts, have clearly influenced the work of the association.

**Go here to submit your nomination.**

STAY CONNECTED with ASFPM


## 2022 ASFPM Awards Nomination

Award Nomination Form

Please use this form to submit a nomination for the following awards:

- Tom Lee State Award for Excellence in floodplain management
- James Lee Witt Local Award for Excellence in floodplain management
- Larry R. Johnston Local Floodplain Manager of the Year Award
- John R. Sheaffer Award for Excellence in Flood Proofing
- Outreach/Media Award
- John Ivey Award for Superior Efforts in Certification
- Meritorious Lifetime Achievement in Floodplain Management Award

*If you are submitting a nomination for the Outstanding Chapter Award, Goddard-White Award or the Jerry Louthain Distinguished Service Award, please click the "Prev" button at the bottom of the page to return to the previous screen.*

### * 2. Submitter's Information

Name

Company

State/Province -- select state --

Email Address

Phone Number

### * 3. Nominee's Information

Name *

Company *

Address

City/Town

State/Province * -- select state --

Postal Code

Website

Email Address *

Phone Number *

*** 4. Title of nominated project, program or person.**

*** 5. Reason for nominating:**

*** 6. Does your nomination have any supporting materials such as publications, media or other documentation? If yes, you will have the opportunity to attach the files on the next page.**

- Yes
- No

Prev Next

ATTACHMENT #3

City of University City

OFFICE OF THE CITY MANAGER
6801 Delmar Boulevard, University City, MO 63130 – Phone: 314-505-8531

January 25, 2022

Colonel Kevin Golinghorst
Commander, St. Louis District
Department of the Army
U.S. Army Corps of Engineers, St. Louis District
1222 Spruce Street
St. Louis, MO 63103

RE: River Des Peres-University City Flood Risk Management General Reevaluation Report – Request for Locally Preferred Plan Waiver

Dear Colonel Golinghorst,

We are glad to see that the analyses conducted as part of the subject General Reevaluation Report (GRR) study have resulted in the identification of multiple flood risk management alternatives with positive net benefits. As the non-federal sponsor for the study, the City of University City would like to request that the U.S. Army Corps of Engineers (USACE) consider a Locally Preferred Plan (LPP) consisting of a single structural measure, Detention Basin 4. The proposed LPP provides meaningful flood risk management benefits in the study area and reduces residual risk for a range of flood events.

At this time, we respectfully request that USACE prepare and submit a LPP waiver for review and approval. It is our understanding that the waiver will include a memo for the Assistant Secretary of the Army for Civil Works to recommend an exception to the National Economic Development plan. We support the LPP and acknowledge that final analysis will need to be completed prior to design and implementation of the LPP, if approved.

We look forward to our continued collaboration and partnership on the River Des Peres-University City GRR.

Please feel free to contact the Public Works Director Sinan Alpaslan at 314.505.8572 or salpaslan@ucitymo.org if you have any questions or need any additional information.

Respectfully,

Gregory Rose, ICMA-CM, MPA
City Manager

cc: Matthew Jones, Project Manager, USACE St. Louis District
Sinan Alpaslan, Director of Public Works, City of University City