



## City of Broken Arrow

City of Broken Arrow  
220 S 1st Street  
Broken Arrow OK  
74012

### Minutes Drainage Advisory Committee

*Chairperson Mary Ann Colston*  
*Vice Chairperson Lori Hendricks*  
*Member Craig Thurmond*  
*Member Johnnie Parks*  
*Member Donna Wallace*  
*Member Jason Featherngill*  
*Member Denise Mason*

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Monday, February 22, 2021

6:00 PM

Council Chambers  
220 S. 1st St.  
Broken Arrow, OK 74012

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#### 1. Call to Order

Chairperson Mary Ann Colston called the meeting to order at approximately 6:00 p.m.

#### 2. Roll Call

**Present:** 4 - Mary Ann Colston, Lori Hendricks, Johnnie Parks, Donna Wallace  
**Absent:** 3 - Craig Thurmond, Jason Featherngill, Denise Mason

#### 3. Presentations

There were no presentations.

#### 4. General Committee Business

**A. 21-286 Approval of the Drainage Advisory Committee meeting minutes of November 30, 2020**

MOTION: A motion was made by Lori Hendricks, seconded by Johnnie Parks.

**Move to approve the November 30, 2020 Drainage Advisory Committee Meeting Minutes**

The motion carried by the following vote:

**Aye:** 4 - Mary Ann Colston, Lori Hendricks, Johnnie Parks, Donna Wallace

**B. 21-285 Consideration, discussion and possible action to recommend to Council to execute an Agreement for Professional Consultant Services with Tulsa Engineering & Planning Associates, Inc. for the study of a portion of the East Branch of Haikey Creek located within the Rushbrooke Subdivisions (Case 21-001)**

Stormwater Division Manager Patrick Wilson displayed and discussed a slide which illustrated the project's location which was east of South Olive Avenue, north of New Orleans Street, and north of the Assembly Church, Oliver Middle School, and Wolf Creek Elementary School. He reported the East Branch of Haikey Creek flowed through Rushbrooke North and Rushbrooke South Subdivisions; the drainage area at the downstream section of the Rushbrooke Subdivision was 2,208 Acres and the 1% (100-year) flow was approximately 2,660 cfs. He displayed a slide which illustrated the location of the creek and the public infrastructure. He explained the flow through the creek was eroding the back yards of the residents and compromising the integrity of stormwater and sanitary structures throughout the addition. He displayed and discussed several photos of the erosion in the area.

Mr. Wilson reported Staff was negotiating with the engineering firm, Tulsa Engineering and

Planning Associates, Inc., to study the East branch of Haikey Creek through the Rushbrooke Subdivisions. He indicated the study would consist of analyzing existing data, calculating current flows, site observations, assessing the extent of erosion, and providing recommendations to stabilize the creek banks. He stated Staff was requesting \$31,000 dollars of the 2018 GO Bond, Proposition 6 funds, for the evaluation of the channel and the recommendations for channel improvements.

Chairperson Colston asked if this was in the HOA common area. Mr. Wilson responded in the affirmative; this was all located in a reserve area.

Committee Member Parks commented this erosion could be found along almost the entire length of Haikey Creek, especially a mile north of this location. He indicated he was not speaking in opposition of this Item, he was in favor; however, this was a problem Broken Arrow would have for years to come until the amount of water flowing down Haikey Creek could be better addressed on a larger scale. He stated maybe the next major bond issue should be dedicated to Haikey Creek erosion issues.

Mr. Wilson agreed Haikey Creek should be addressed as a whole; however, currently this area needed to be addressed. He stated he would like to discuss the next bond issue with Mr. Kenny Schwab and Mr. Ethan Edwards at a later date.

Committee Member Parks stated Mingo Creek which ran through Tulsa used to look similar to Haikey Creek but was now nationally recognized and was an extremely safe area. He noted a massive amount of water flowed through Haikey Creek.

Mr. Kenny Schwab stated Committee Member Denise Mason lived in this subdivision. He indicated Ms. Mason did not bring this issue to the attention of Broken Arrow Staff, the Rushbrooke HOA contacted Broken Arrow Staff. He noted this was a newer subdivision; however, the homes were closer to the Creek than in other subdivisions which was why this newer subdivision was being addressed before the older subdivisions along Haikey Creek. He commented the HOA contacted the City for assistance before Proposition 6 was in place.

Committee Member Lori Hendricks asked if the requested funding was only for evaluation and recommendation, not for any actual improvements. Mr. Wilson responded in the affirmative. He noted there was an HOA representative, Mr. Steve Self, present. He indicated he met with Mr. Self on site and Mr. Self indicated the HOA was willing to work with the City in addressing the study's recommendations.

Mr. Schwab asked Mr. Wilson to discuss the Haikey Creek improvement done a couple of years ago in this area. Mr. Wilson responded he had limited knowledge regarding this improvement; however, he believed a retaining wall was built as the channel was cutting close to private property and homes. He stated this retaining wall helped mitigate the erosion and assisted with the flow.

Mr. Schwab discussed the improvement in the area which included a double oxbow and channel. He noted the HOA paid for the materials for the improvements which City workers completed.

Mr. Steve Self discussed how the channel and oxbow slowed the erosion in the area.

Mr. Schwab stated this improvement technique met with the standards of the 404, the Army Corp, and City maintenance programs. He reported this type of improvement was being considered for other locations.

Chairperson Colston asked which houses were experiencing private property erosion. Mr. Wilson pointed to these homes on the map; he noted currently the erosion was still located in the reserve, but the situation was becoming treacherous.

Committee Member Parks asked if the erosion was threatening private property. Mr. Wilson responded in the affirmative.

Mr. Schwab noted the Creek meandered close to a public roadway.

Mr. Phillip Sutterfield (ph) stated Mr. Wilson investigated his property. He noted he lost four feet behind his fence into the ravine. He stated he had to have a fencing company repair his fence which was falling over. He noted his buried utility lines were visible in the backyard.

Committee Member Parks asked the age of Mr. Sutterfield's home. Mr. Sutterfield responded he built his home in November of 2019.

Mr. Self stated the HOA was seeking a partnership with the City. He noted the HOA was not opposed to spending money and he felt a master plan would be beneficial to both the subdivision and the City.

MOTION: A motion was made by Johnnie Parks, seconded by Mary Ann Colston.

**Move to recommend to Council to execute an Agreement for Professional Consultant Services with Tulsa Engineering & Planning Associates, Inc. for the study of a portion of the East Branch of Haikey Creek located within the Rushbrooke Subdivisions (Case 21-001)**

The motion carried by the following vote:

**Aye: 4 -** Mary Ann Colston, Lori Hendricks, Johnnie Parks, Donna Wallace

**C. 21-311 Consideration, discussion and possible action to recommend to Council to reject Pembroke Park's request for additional funds for construction of erosion control items on a private pond (Case 21-002)**

Stormwater Division Manager Patrick Wilson displayed a slide which illustrated the project location. He reported erosion had occurred on the west bank of the East Branch of Haikey Creek at Pembroke Park pond; this may have been caused by undermining of a large tree which fell into the creek and forced high waters into the west bank at this section. He stated on October 28, 2019, the Drainage Advisory Committee approved \$10,000 dollars for tree removal and riprap. He stated City Council approved these funds on November 18, 2019. He reported tree removal was completed at a cost of \$3,000 dollars, leaving \$7,000 dollars remaining for riprap. He noted the Pembroke Park Homeowners Association hired Keithline Engineering Group, PLLC, to design a set of construction documents for erosion control at the pond. He indicated the plans were scheduled to open February 15, 2021. He noted the construction cost estimate was \$31,355 dollars. He stated the portion of the project associated with the riprap was \$15,770 dollars and Pembroke Park was requesting additional funds for the construction of the erosion control. He stated Staff evaluated the construction plans prepared by the HOA for the improvements to its pond. He explained since the pond provided little to no benefit to the public, additional funds from the City to address the private pond does was not recommended. He noted in Staff's opinion, the original approval was sufficient and maximized what would be considered an overall public improvement. He stated Staff recommended rejection of Pembroke Park HOA's request for additional funds.

Committee Member Parks asked if anyone from Pembroke Park was present. Mr. Schwab responded in the negative.

Committee Member Parks asked if Pembroke Park HOA was aware of the recommendation. Mr. Schwab responded in the affirmative; Staff communicated with Pembroke Park today. He stated Pembroke Park HOA indicated it would be present; however, he did not see any representatives of Pembroke Park present. He commented Pembroke Park was immediately downstream of Rushbrooke.

Committee Member Hendricks asked how improvements made at Rushbrooke would affect Pembroke Park.

Mr. Wilson responded Rushbrooke improvements should not have any noticeable impact on Pembroke Park. He stated any improvements made to Rushbrooke would certainly not adversely impact Pembroke as per City Ordinance.

Mr. Schwab noted the Pembroke Pond was located in the Pembroke subdivision's private park area and was elevated approximately 30 feet above Haikey Creek. He stated he believed the pond was spring fed. He noted if the pond were to dry up it would not affect the Creek. He explained a tree fell in the Creek which caused a new flow path while slope failure at the pond caused trees near the pond to slide down into the Creek. He stated there was a 3-foot-wide tree which had fallen in the creek; the DAC recommended the City remove this tree and this was accomplished. He noted this cost approximately \$3,000 dollars which left \$7,000 dollars available to Pembroke HOA to be used for the pond riprap. He stated Staff recommended rejection of the request for additional funding from Pembroke HOA as City Staff did not believe the erosion of the pond was due to Haikey Creek.

Chairperson Colston noted she believed the Pembroke HOA was going to utilize the \$7,000 dollars for riprap. Mr. Schwab concurred.

Mr. Wilson stated Pembroke HOA applied for all the necessary permits for this from the City of Broken Arrow; these permits have been approved. He noted the bids were due to be opened on February 15, 2021 and he did not know the results of the bid openings.

Mr. Schwab noted the riprap was estimated to cost around \$15,000 dollars; this meant the City was providing almost half the needed funds for the riprap even with rejection of Pembroke Park's request for additional funds.

Committee Member Parks stated if further funding to improve the pond did not further protect the surrounding properties the City should not invest further Proposition 6 funds.

Mr. Schwab agreed; this was the reason Staff recommended rejection.

Mr. Wilson commented this was a natural pond and was spring fed.

Chairperson Colston asked if the pond erosion would infringe on any homes. Mr. Schwab responded in the negative.

Committee Member Parks asked if the pond was utilized by the private citizens of the Pembroke Park subdivision. Mr. Schwab responded in the affirmative.

MOTION: A motion was made by Lori Hendricks, seconded by Johnnie Parks.

**Move to recommend to Council to reject Pembroke Park's request for additional funds for construction of erosion control items on a private pond (Case 21-002)**

The motion carried by the following vote:

**Aye: 4 -** Mary Ann Colston, Lori Hendricks, Johnnie Parks, Donna Wallace

## 5. Adjournment

The meeting adjourned at approximately 6:28 p.m.

MOTION: A motion was made by Johnnie Parks, seconded by Mary Ann Colston.

### **Move to adjourn**

The motion carried by the following vote:

**Aye:**     **4 -**     Mary Ann Colston, Lori Hendricks, Johnnie Parks, Donna Wallace

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Mary Ann Colston, Chairperson

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Lisa Blackford, Deputy City Clerk