

City of Broken Arrow

Drainage Advisory Committee



PROJECT REPORT

DATE:	May 16, 2022
NAME	International Christian Assembly of Tulsa, Inc. Representative Dr. Zack Varughese
ADDRESS / LOCATION	4412, 4414, 4416 W Ft. Worth St., Broken Arrow, OK 74012
WATERSHED	Haikey Creek
ESTIMATE	\$0.00
CASE NO.	22-003

DESCRIPTION

The proposed project is located in an unplatted area immediately north of the Forest Creek Patio Homes Subdivision north of Houston Street and east of Garnett Rd. The International Christian Assembly of Tulsa (ICAT) and Forest Creek Patio Homes share a detention facility, see attached map.

Erosion has occurred on the south bank of the West Branch of Haikey Creek in the unplatted private section next to the retention pond of Forest Creek Patio Homes. The West Branch of Haikey Creek has a drainage area of 1,939 Acres at this point. The flow is approximately 3,600 cfs and the velocity is approximately 6 fps. A velocity of 6 fps is considered an erosive velocity. West Branch of Haikey Creek is governed by the United States Army Corps of Engineers and is in a FEMA regulated floodplain. There are also no public utilities being impacted by the erosion.

Staff investigated the bank erosion along the West Branch of Haikey Creek. The bank erosion is a part of the natural channel cycle with the velocity around 6 fps and the channel making a natural 90 degree turn. Bank protection considered is adding a retaining wall due to the steepness of the slope. The total construction cost estimate is approximately \$190,000.00

BENEFIT

Addressing the erosion in the unplatted private channel and private pond does not have a public benefit to the City of Broken Arrow.

RECOMMENDATION

Reject International Christian Assembly of Tulsa, Inc. request for expending public funds for erosion control on the unplatted private channel and private pond.

COMPLETED BY: Patrick P. Wilson

DATE: 5/17/22

[REDACTED] [REDACTED]
[REDACTED] [REDACTED]
[REDACTED] [REDACTED]
[REDACTED] [REDACTED]n

Drainage Advisory Committee Project Application

Submission #: 1480160
IP Address: 24.254.70.21
Submission Date: 02/18/2022 12:02
Survey Time: 15 minutes, 33 seconds

You have a new online form submission.

Note: all answers displaying "*****" are marked as sensitive and must be viewed after your login.

Owner Name

International Christian Assembly of Tulsa, Inc Owner Representative: Dr. Zack Varughese

Phone

9186056737

Email

olivemala@aol.com

Owner Mailing Address

216 Luther Drive
Broken Arrow, OK 74012

Address of Property with Drainage Problem

4412, 4414, 4416 W. Ft. Worth St
Broken Arrow, OK 74012

Location of Drainage Issue on Property

Bank of Haikey Creek in curve located just north of corner of Property 4416, bank of Haikey Creek in sharcurve located just Northeast of notheast corner of 4412.

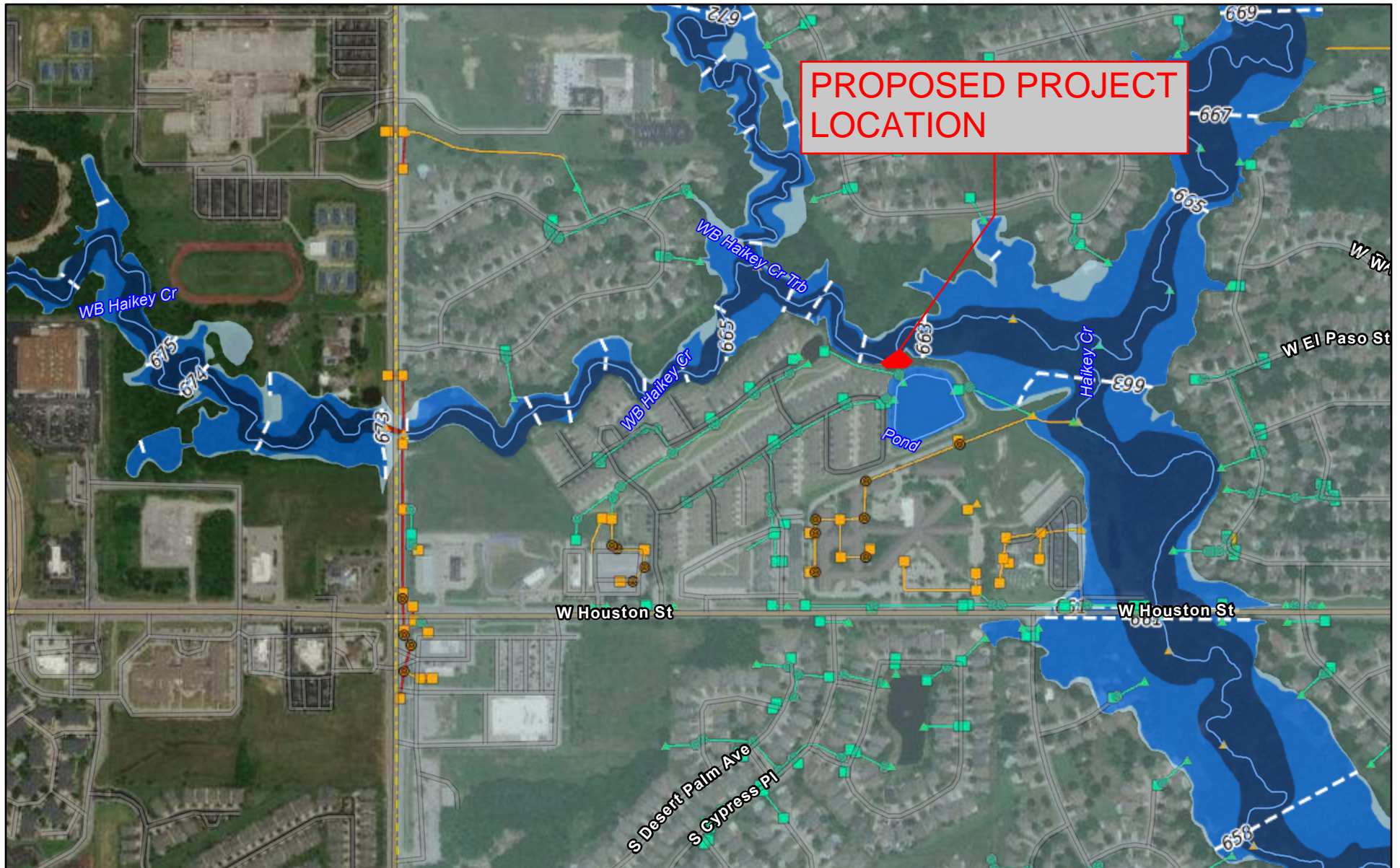
Description of Problem

Per home owners of 4412 and 4416, during heavy rain events, the creek becomes bank full and move quickly in this area, causing the bank to erode in the curves. My name is Zack Varughese, President/Senior Pastor of the Church. Our property address is 4315 W Houston Street. I am submitting this application on behalf of residents of 4412 and 4416, Richard and Bob. I may be reached at (918) 605-6737. Thank you in advance for your prompt attention this matter.

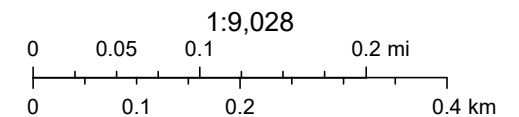
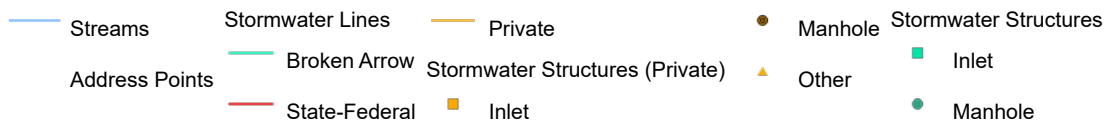
Please attach photos depicting the Drainage Issue

Thank you,
City of Broken Arrow

Project Location



5/17/2022, 11:15:14 AM



Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community, City of Tulsa, US Census Bureau, INCOG, & unknown, Sources: Esri, HERE,

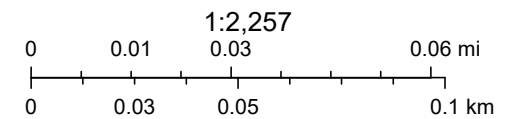
ArcGIS Web AppBuilder

Project Location



5/17/2022, 11:21:43 AM

- | | | | | |
|----------------|------------------|---------------------------------|-----------------------|---------|
| Parcels | Stormwater Lines | Stormwater Structures (Private) | Other | Manhole |
| Streams | Broken Arrow | Inlet | Stormwater Structures | Other |
| Address Points | Private | Manhole | Inlet | |



Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community, City of Tulsa, US Census Bureau, INCOG, & unknown, Sources: Esri, HERE,

ArcGIS Web AppBuilder

Maxar, Microsoft | City of Broken Arrow | Tulsa County Assessor | City of Tulsa, US Census Bureau, INCOG, & unknown | Esri Community Maps Contributors, City of Tulsa, Texas Parks & Wildlife, © OpenStreetMap, Microsoft, Esri, HERE, Garmin, SafeGraph,





