

# City Of Flagstaff

Rio de Flag Flood Control Project  
June 2019 Council Update





# PRESENTATION



- **History**
- **Purpose and Benefits**
- **Project Cost**
- **Schedule**
- **Current topics**
  - Plan Completion, Right of Way Acquisition & Environmental Clearance
- **Questions**



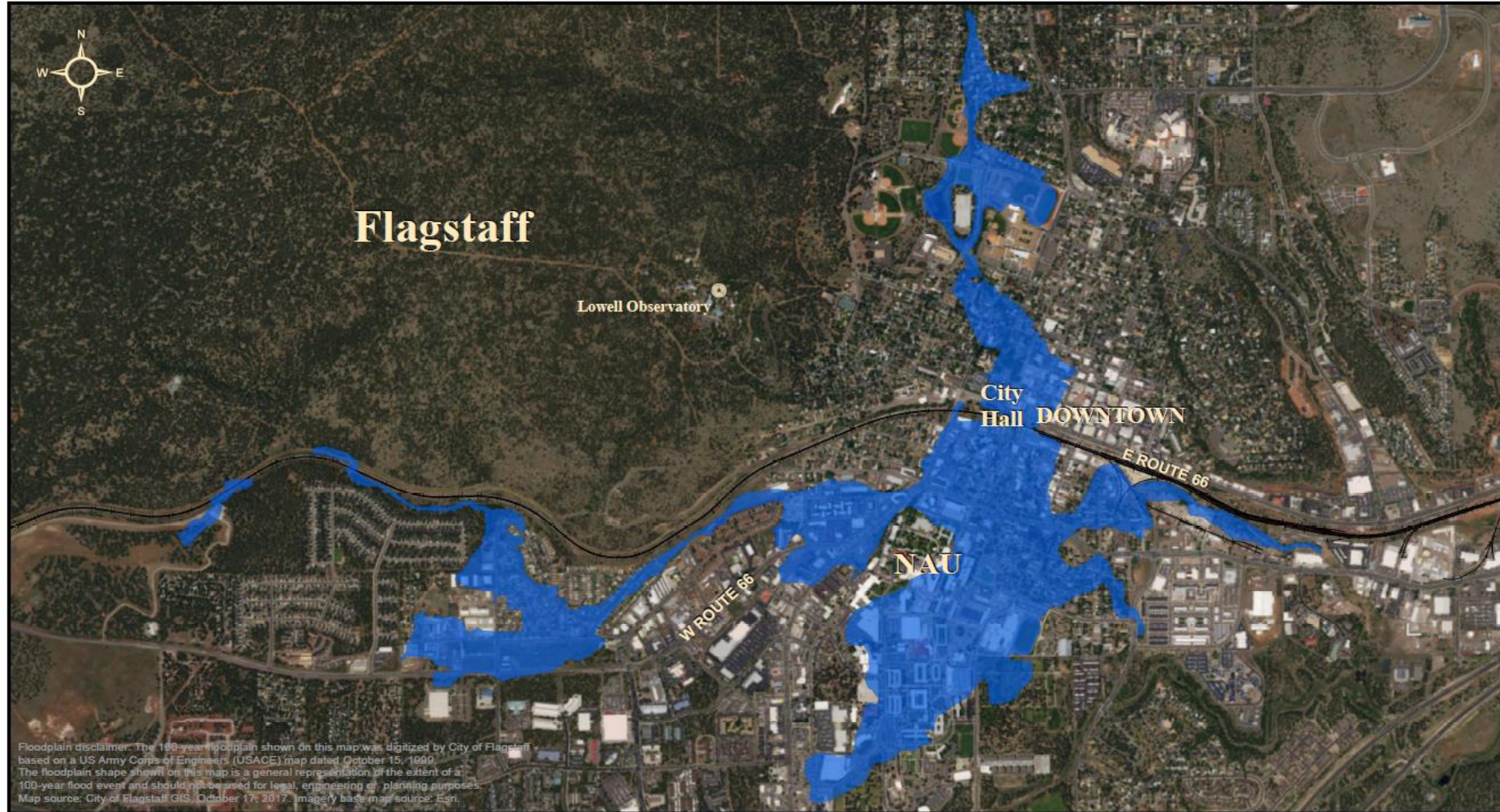
# HISTORY



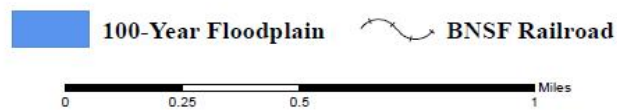
- In 2000 the project was authorized by the Water Resources Development Act.
- 2004 the US Army Corps and the City executed a Project Cooperation Agreement. The US Army Corps is the lead and the City is the non-sponsor.
- The design of the main stem began in 2005.
- Components of the design were constructed in 2009-2012. Clay Avenue Wash Detention Basin, Thorpe Road Bridge and Butler Tunnel.



# PURPOSE & BENEFITS



## 100-Year Floodplain Flagstaff Downtown Area



**RIO de FLAG**  
Flood Control Project



# PURPOSE & BENEFITS

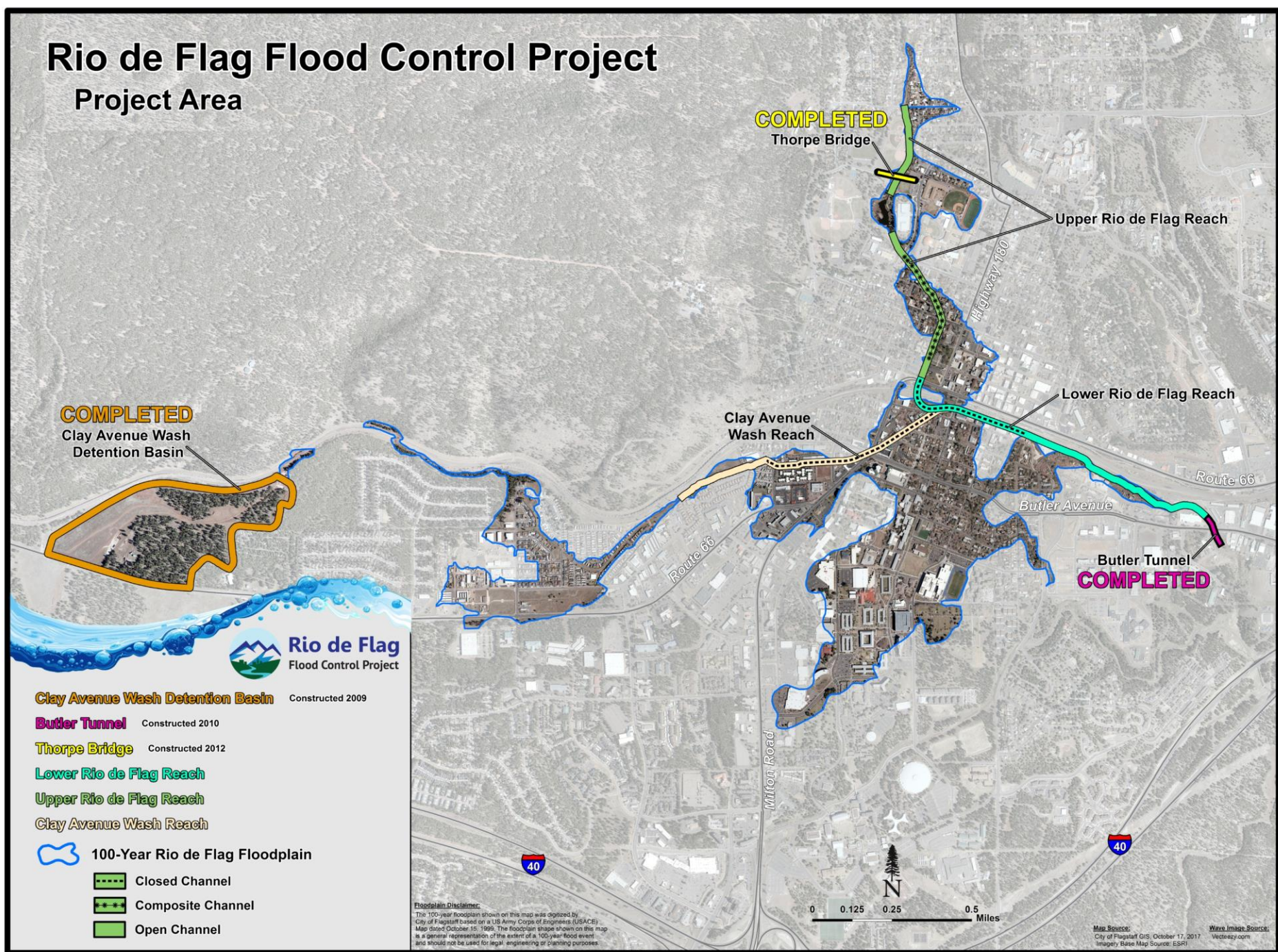


- Reduce damages and economic losses from a major event by containing the 100-year flood within the proposed improvements
  - Damages to over 1,500 structures valued at \$1B
- Once the project has been completed, mandatory flood insurance will be eliminated as well as the restrictive floodplain management regulations.
- Downtown and Southside Redevelopment initiatives



# Rio de Flag Flood Control Project

## Project Area



**COMPLETED**  
Clay Avenue Wash  
Detention Basin

**COMPLETED**  
Thorpe Bridge

Upper Rio de Flag Reach

Lower Rio de Flag Reach

Clay Avenue  
Wash Reach

Butler Tunnel  
**COMPLETED**



**Clay Avenue Wash Detention Basin** Constructed 2009

**Butler Tunnel** Constructed 2010

**Thorpe Bridge** Constructed 2012

**Lower Rio de Flag Reach**

**Upper Rio de Flag Reach**

**Clay Avenue Wash Reach**

100-Year Rio de Flag Floodplain

Closed Channel

Composite Channel

Open Channel

Floodplain Disclaimer:  
The 100-year floodplain shown on this map was digitized by  
City of Flagstaff based on a US Army Corps of Engineers (USACE)  
Map dated October 15, 1999. The floodplain shape shown on this map  
is a general representation of the extent of a 100-year flood event  
and should not be used for legal, engineering or planning purposes.

Map Source:  
City of Flagstaff GIS, October 17, 2017  
Imagery: Mapbox, Mapbox.com



# PROJECT COST



- The project is currently anticipated at \$106M
- The Project Cooperation Agreement defines the US Army Corps share at 65% and the City share at 35%
- The City share is approximately \$36M. Funding for the project has been budgeted through the City's General Fund.
  - January 2019, the City Council approved a Stormwater Fee increase that will begin in July 2019.



# PROJECT SCHEDULE



- US Army Corps received funding in their FY 19 work program to complete the project plans.
- US Army Corps and City anticipate the project plans will be complete in the summer of 2020.
- Plan and host public meetings with stakeholders and citizens to engage and inform about the project
- If funding is received by the US Army Corps, construction could begin as early as the spring of 2021.



# CURRENT TOPICS



- Design Plan Completion – US Army Corps of Engineers and the City are working with consultants to complete the project plans design.
- Environmental Clearances – City is working to achieve permitted access for adjacent property owners.
- Right of Way Acquisition – City is working to acquire the necessary property rights to allow construction through title reports and appraisals.



# QUESTIONS



## Questions