

**MINUTES  
FLOOD CONTROL DISTRICT ADVISORY COMMITTEE/PUBLIC REVIEW**

**CIP SUBCOMMITTEE  
November 16, 2016**

**Committee Members Present:** James MacAdam, Ken Perry, Kumar Raut, Ian Sharp, Kieran Sikdar, Mike Todnem, John Wallace

**Flood Control District Staff Present:** Suzanne Shields, Director; Bill Zimmerman, Deputy Director; Eric Shepp, Deputy Director; Greg Saxe, Environmental Planning Manager; Tamara Jorde, Special Staff Assistant

**Others Present:** John Feather, WMG

The meeting was held at 201 N. Stone Avenue, Tucson, Arizona, 9<sup>th</sup> Floor Conference Room.

Suzanne Shields gave a PowerPoint presentation on the City of Tucson's (City) project requests (see attached) in order to help clarify the projects and the options to the CIP Subcommittee.

Suzanne Shields will meet with City staff on Monday, November 21, 2016. The City will give another presentation on their projects at the next meeting.

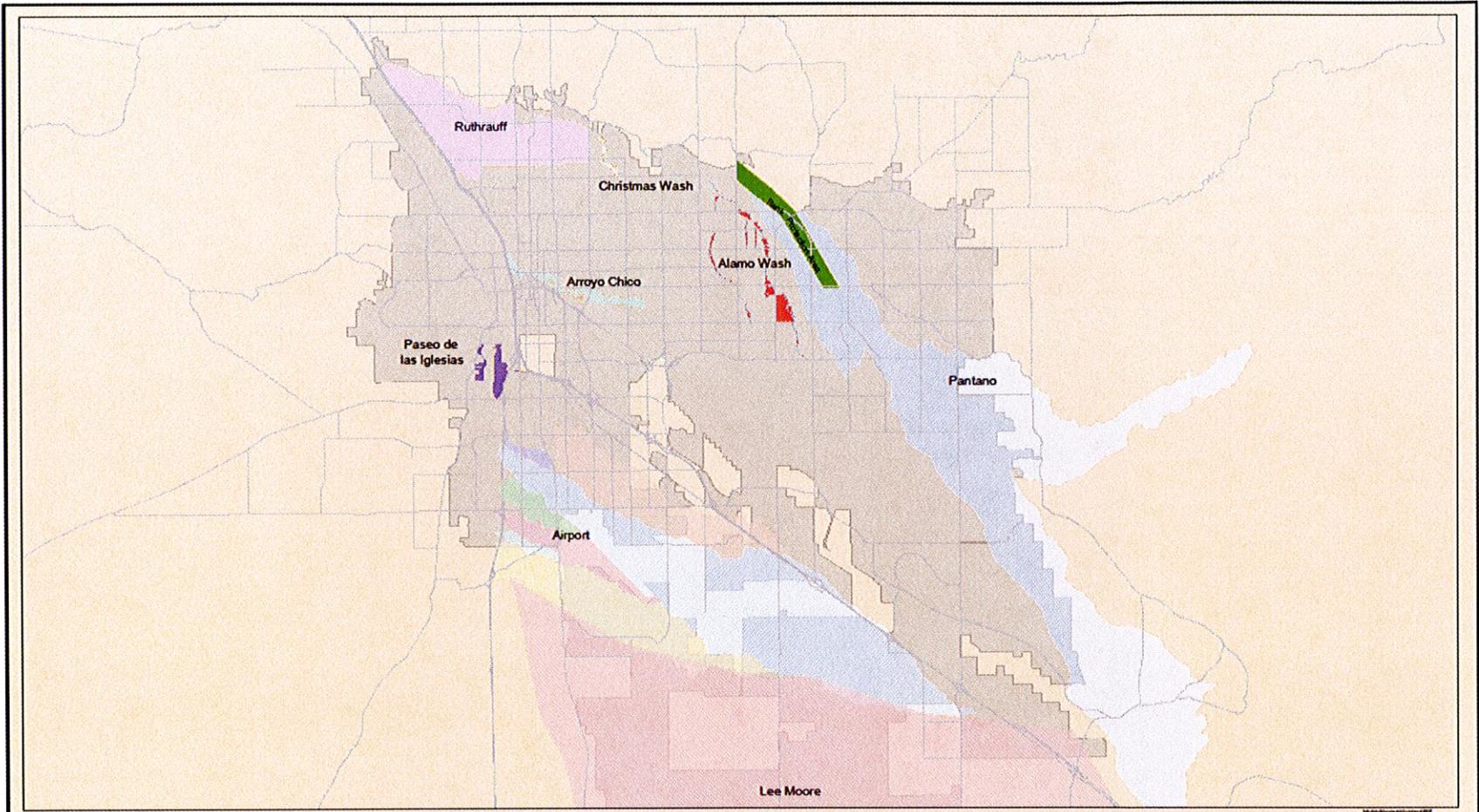
The next meeting will be November 30, 2016.

The meeting adjourned at 10:03 a.m.

# City of Tucson

CIP Project Requests

Regional Flood Control District  
Preliminary Evaluation

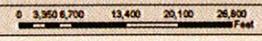



  
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ESTABLISHED 1891
  
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 (520) 734-1800, FAX: (520) 734-8211
   
<http://www.rfcd.pima.gov>

## RFCD studies and projects within the COT



1 inch = 13,360 feet



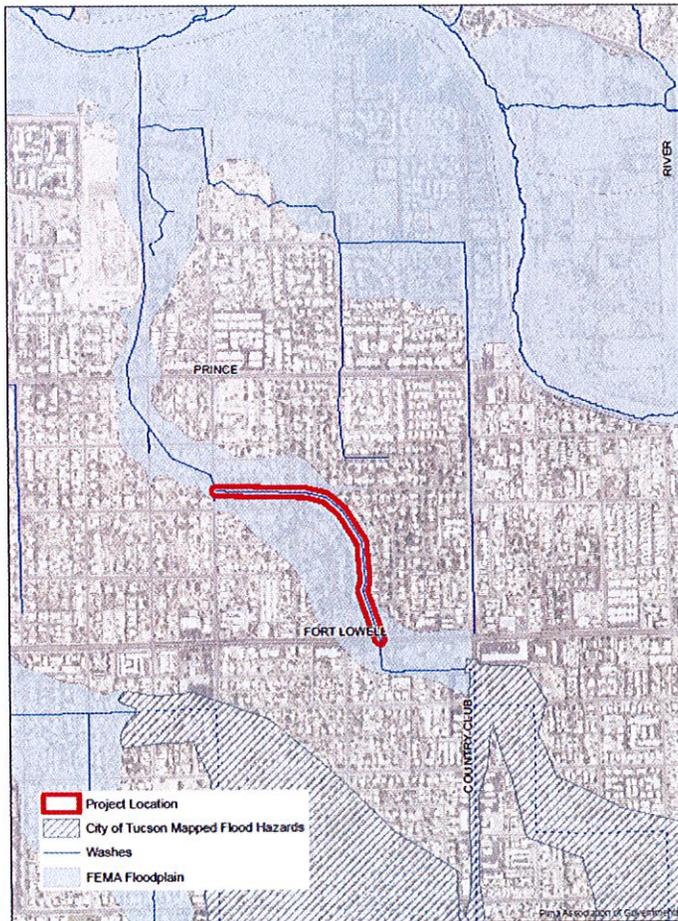
Date: 12/14/15

The information depicted on this display is the result of digital analysis performed on a variety of databases provided and maintained by several governmental agencies. The accuracy of the information presented is limited to the collective accuracy of these databases on the date of the analysis. The Pima County Regional Flood Control District makes no claims regarding the accuracy of the information depicted herein.
   
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# City of Tucson Project Locations and Information

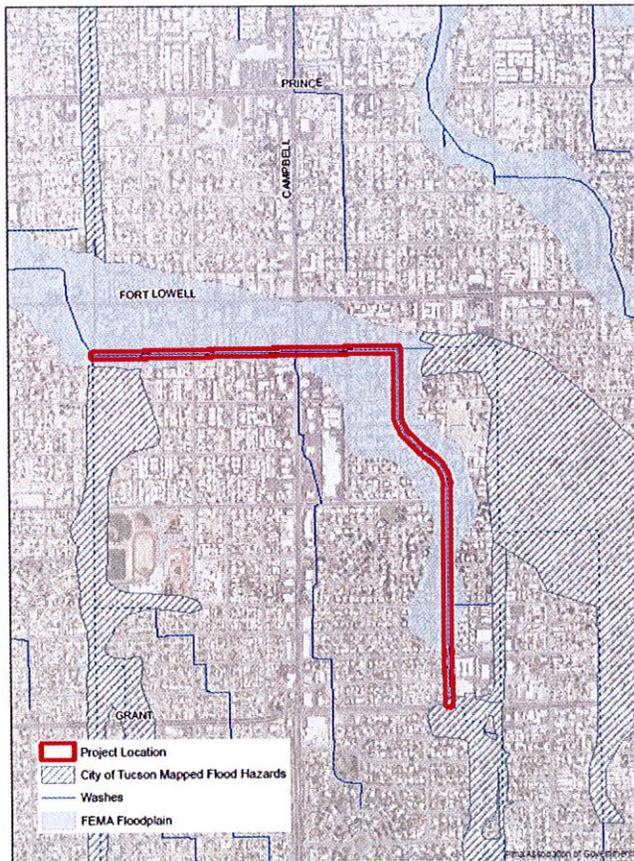
- TSMS Watershed Map
- Description of locations in COT spreadsheet of cost estimates
- Project listing and description in TSMS
- Q100 taken from downstream TSMS Node on COT's GIS maps
- Protection, homes and sq. ft. of HDLU from TSMS
- Qualifiers are qualitative feasibility review of topography, right-of-way, utility conflicts, etc.

# 1 Christmas Wash – Fort Lowell to Tucson Blvd.



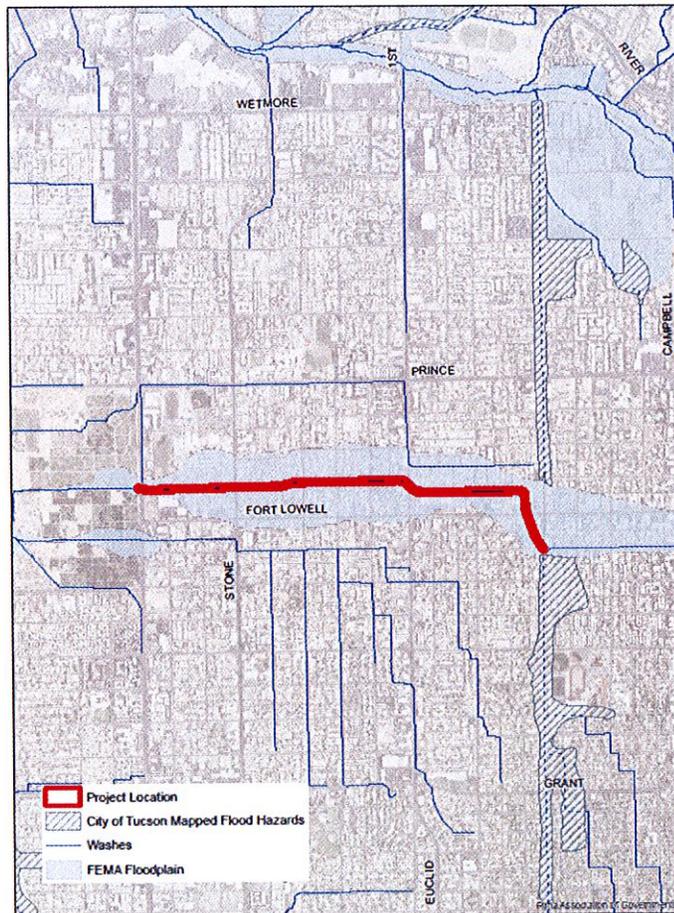
- Q100 = 1,725 cfs
- Homes protected TSMS; 222
- Estimated design & construction \$6.5M
- Qualifier – downstream channel invert at Tucson Blvd. is only 4 feet below roadway grade. Need a storm drain to go to the Rillito River.
- Doesn't address Richland Heights or Palo Verde neighborhoods.

## 2 Flowing Wells – Wilson Wash



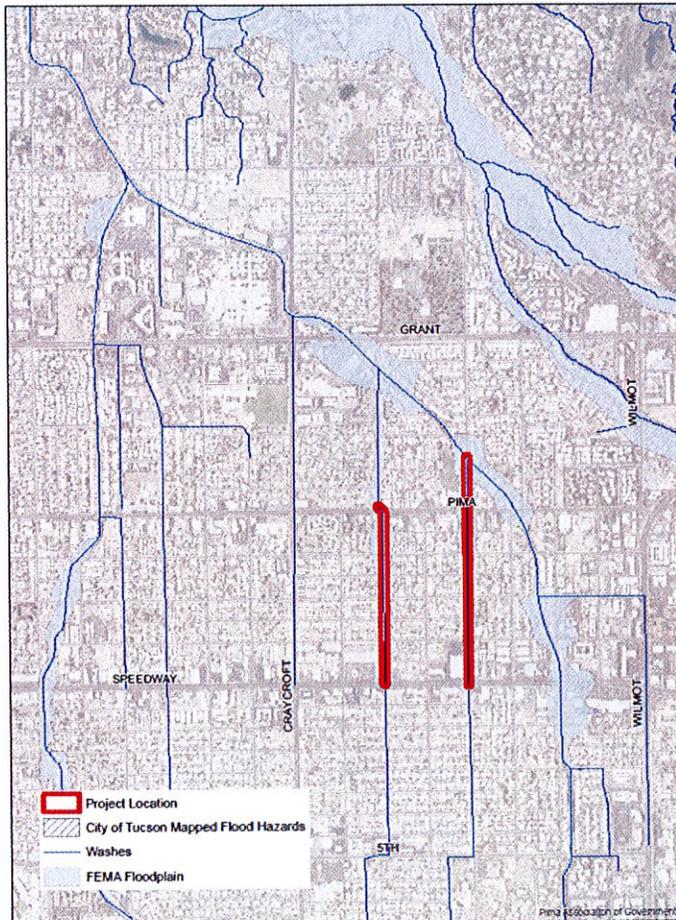
- Q100 = 2,381 cfs
- Homes protected TSMS; 258
- Estimated design & construction \$6.1M
- Qualifier - conflict with interceptor sewer. Project should proceed after downstream improvements on Navajo Wash.

## 3 Flowing Wells – Navajo Wash



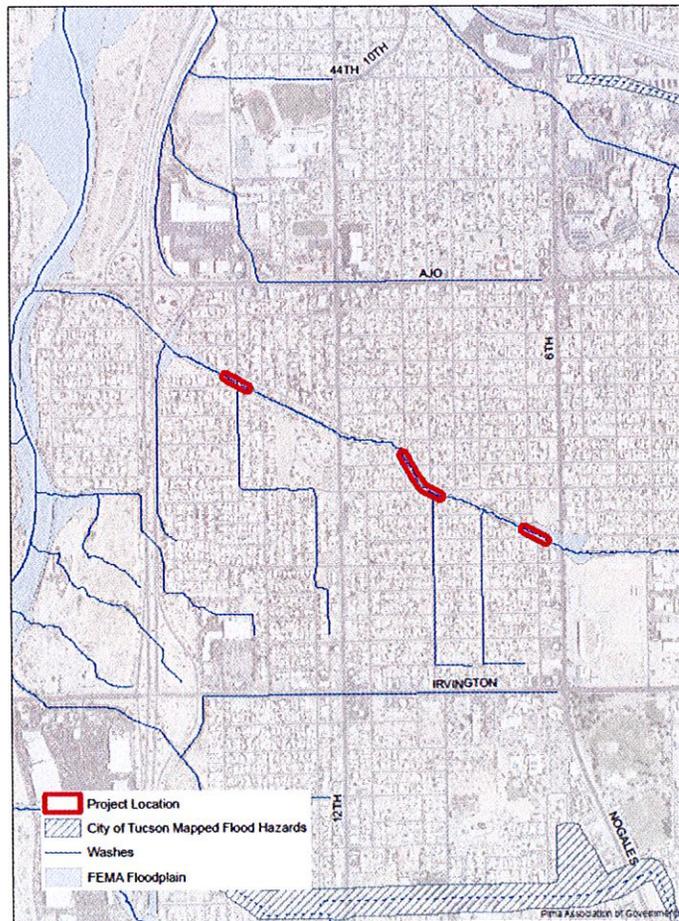
- Q100 = 2,110 cfs
- Homes protected TSMS; 135
- HDLU protected TSMS; 738,900 sq. ft.
- Estimated design & construction \$7.1M (2007 est. \$26.72M / 100yr; \$20.76M / 10yr; \$14.24M / 2yr)
- Qualifier - roadway leading to Oracle Rd. is at the same elevation as culvert invert under Oracle. Balance street carrying capacity with storm drain sizing is necessary.

## 4 Alamo Wash – Sahuaro and Van Buren



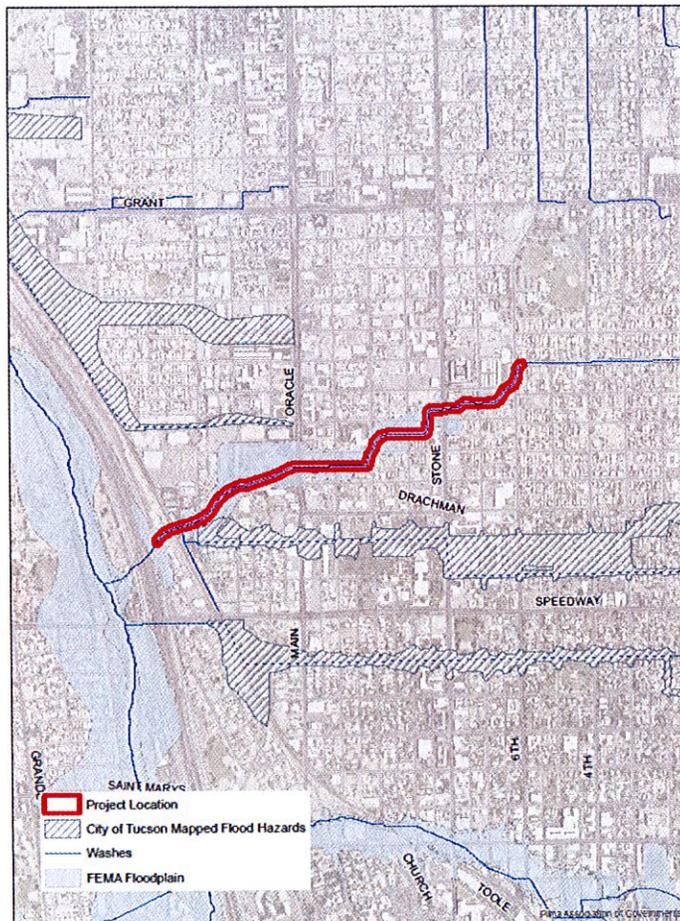
- Q100 = 508 cfs, Sahuaro  
Q100 = 450 cfs, Van Buren
- Homes protected TSMS;  
184
- HDLU protected TSMS;  
10,000 sq. ft.
- Estimated design &  
construction \$6.1M
- Qualifier - only addresses  
small segment of minor  
streets.

## 5 Rodeo Wash – Various Culverts



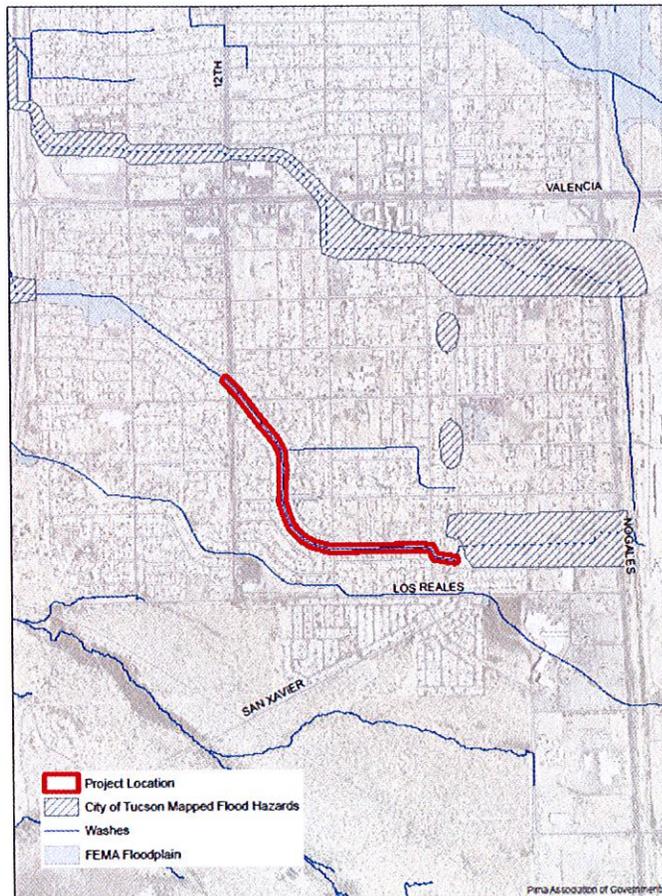
- Q100 = 3,377 cfs
- Homes protected TSMS; 13
- HDLU protected TSMS; 600 sq. ft.
- Estimated design & construction \$3.3M
- Qualifier - culverts are roadway structures. Feasibility evaluation showed major utility conflicts, and culverts would increase flooding of adjacent properties.

## 6 Bronx Wash – Storm Drain Channel



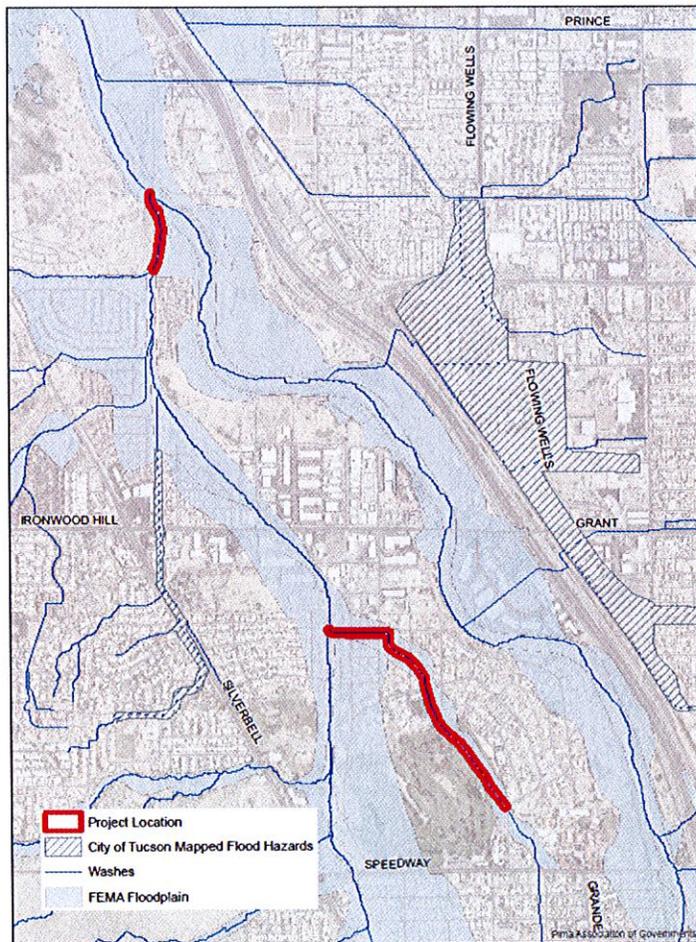
- Q100 = 1,011 cfs
- Homes protected TSMS; 17
- HDLU protected TSMS 112,775 sq. ft.
- Estimated design & construction \$1.1M
- Qualifier - wash flow path is down alleyways; will need to evaluate impact to access, utilities, etc.

## 7 El Vado Wash – Channel Bank Protection



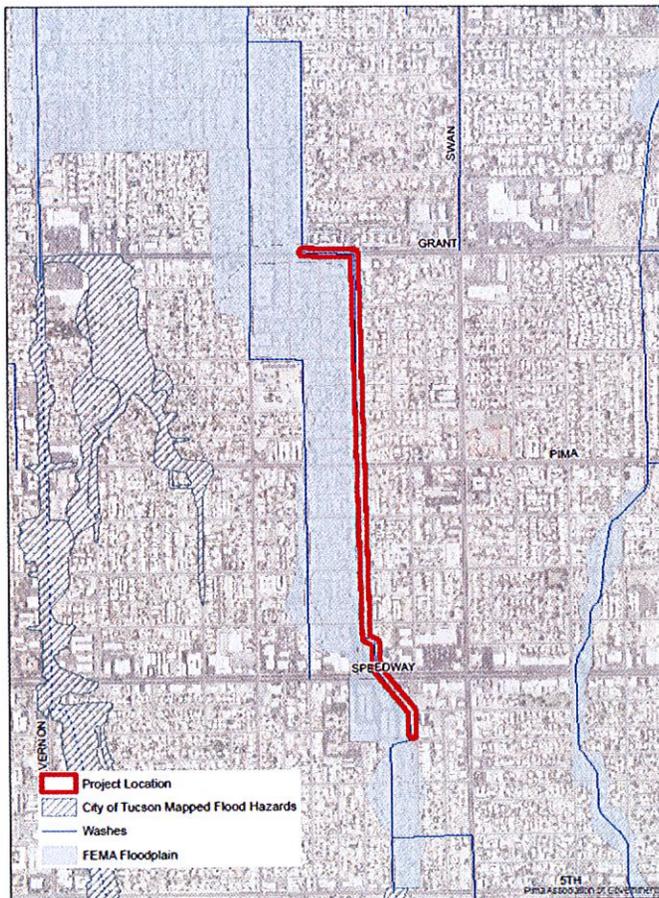
- Q100 = 1,062 cfs
- Homes protected TSMS; 7
- Estimated design & construction \$5.3M
- Qualifier - channel has flow capacity and providing upstream improvement may increase flow velocities, and adversely impact downstream areas.

# 8 Silvercroft Wash – Landfill Bank Protection & El Rio Wash



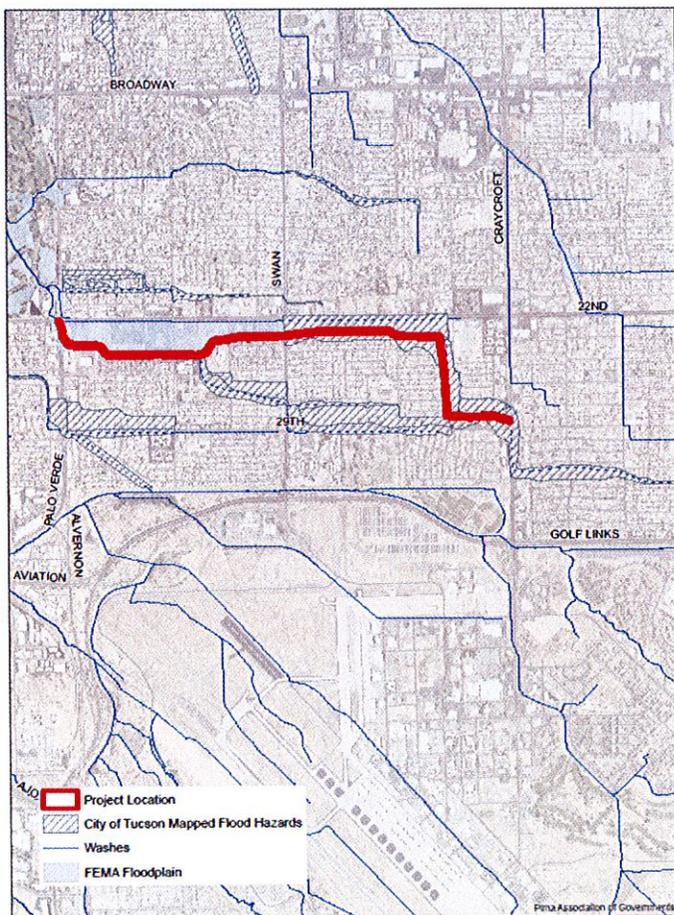
- Q100 = 9,290 cfs, SCR
- Q100 = 1,115 cfs, El Rio
- Homes protected TSMS; NA
- HDLU protected TSMS; NA
- Estimated design & construction \$4.1M
- Qualifier - landfill is COT's responsibility for closure. Detention may be possible on El Rio golf course.

## 9 Alvernon Wash - Columbus Wash Storm Drain



- Q100 = 1,275 cfs
- Homes protected TSMS; NA
- HDLU protected TSMS; NA
- Estimated design & construction \$19M
- Qualifier – Unsure of exact location; project scope needs to be defined.

# 10 Tucson Arroyo – Naylor Wash



- Q100 = 1,265 cfs
- Homes protected TSMS 122
- HDLU protected TSMS 50,000 sq. ft.
- Estimated design & construction \$3.6M
- Qualifier - Corps wants to improve Arroyo Chico between Country Club to Kino to prevent flooding; this is a higher priority.