



FEMA

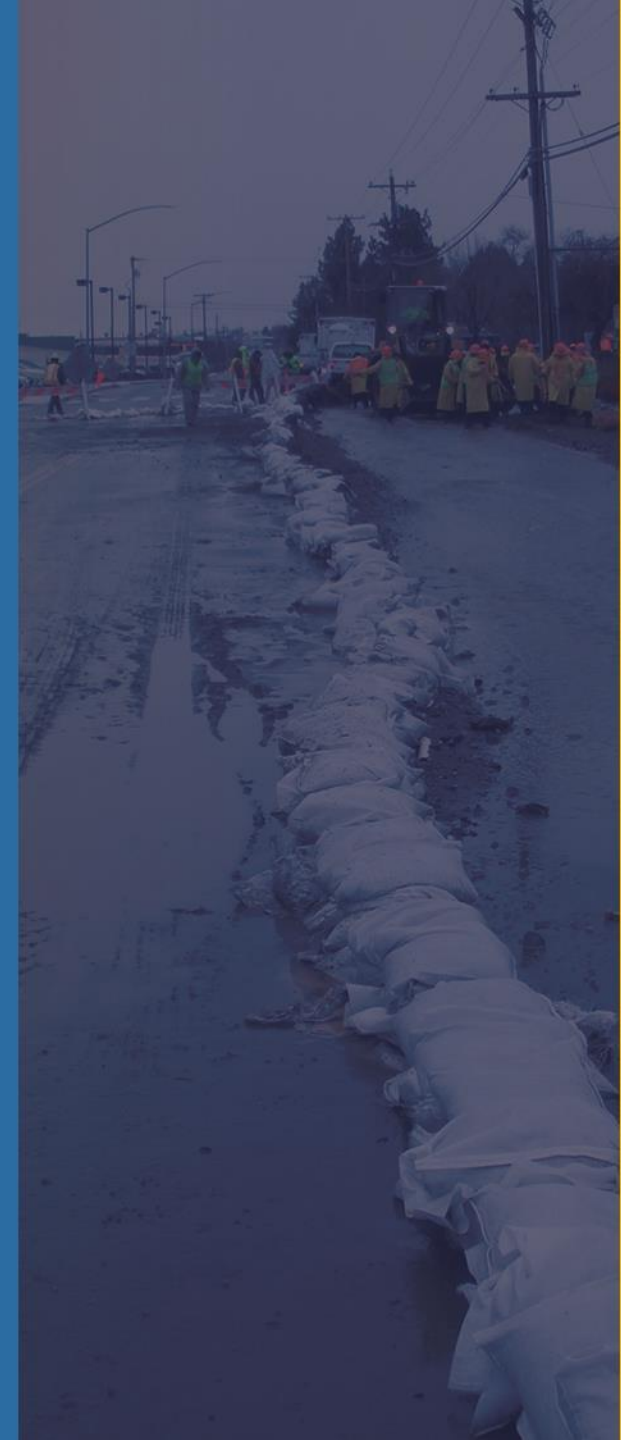
# West Carson City Area DRAINAGE PLAN

Supported by  
Carson City Public Works,  
Carson Water Subconservancy  
District, and FEMA.

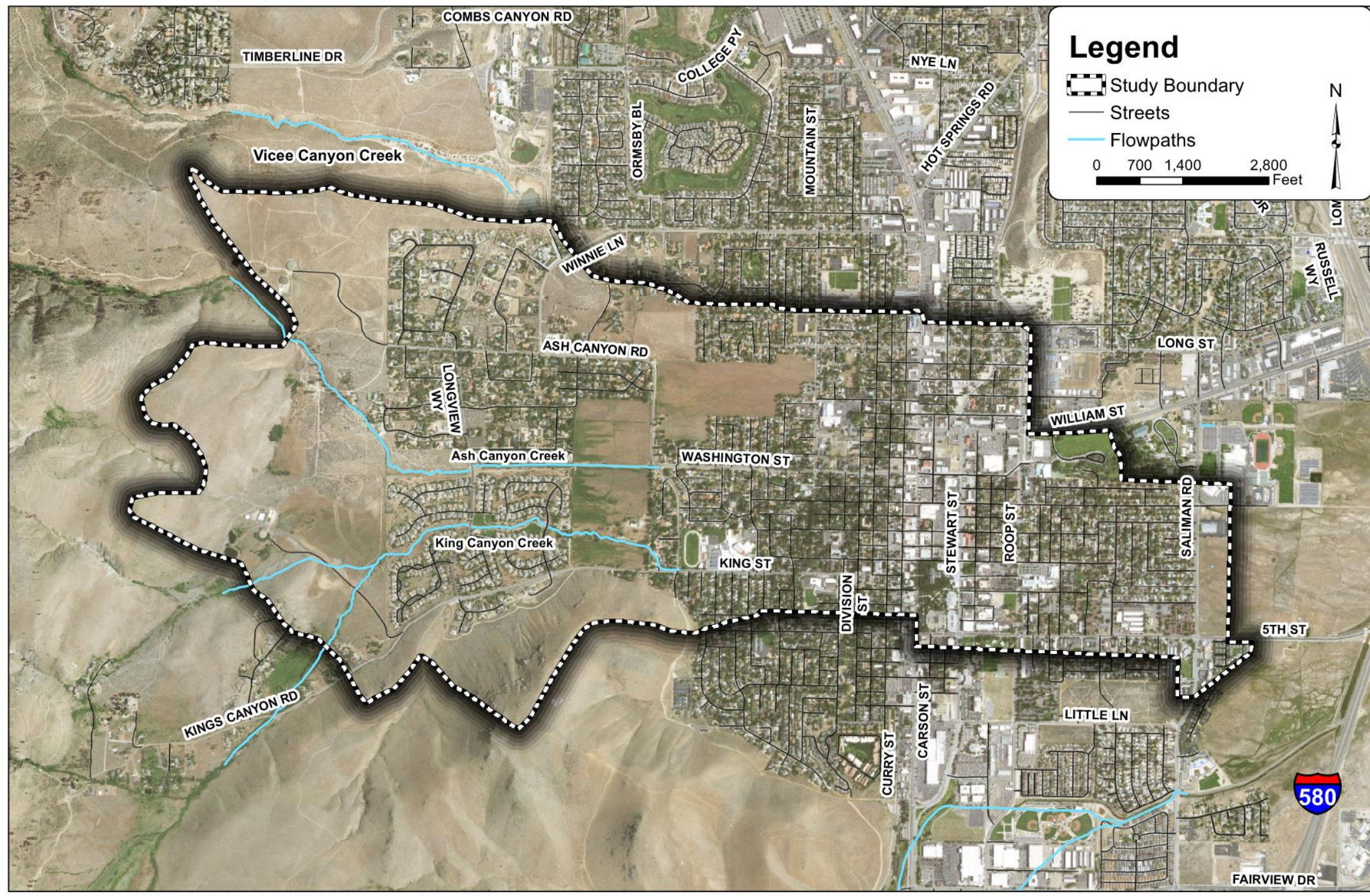
Kimley»»Horn

# Project Partners

- Carson City Public Works
- Carson Water Subconservancy District
- FEMA







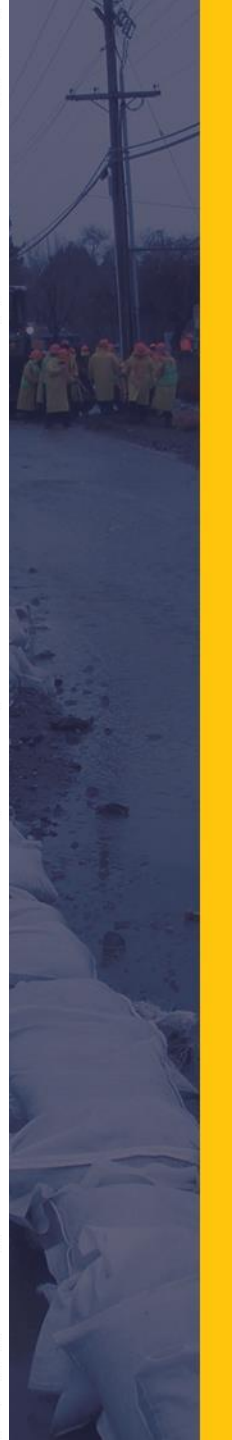
### Legend

- Study Boundary
- Streets
- Flowpaths

0 700 1,400 2,800 Feet

N

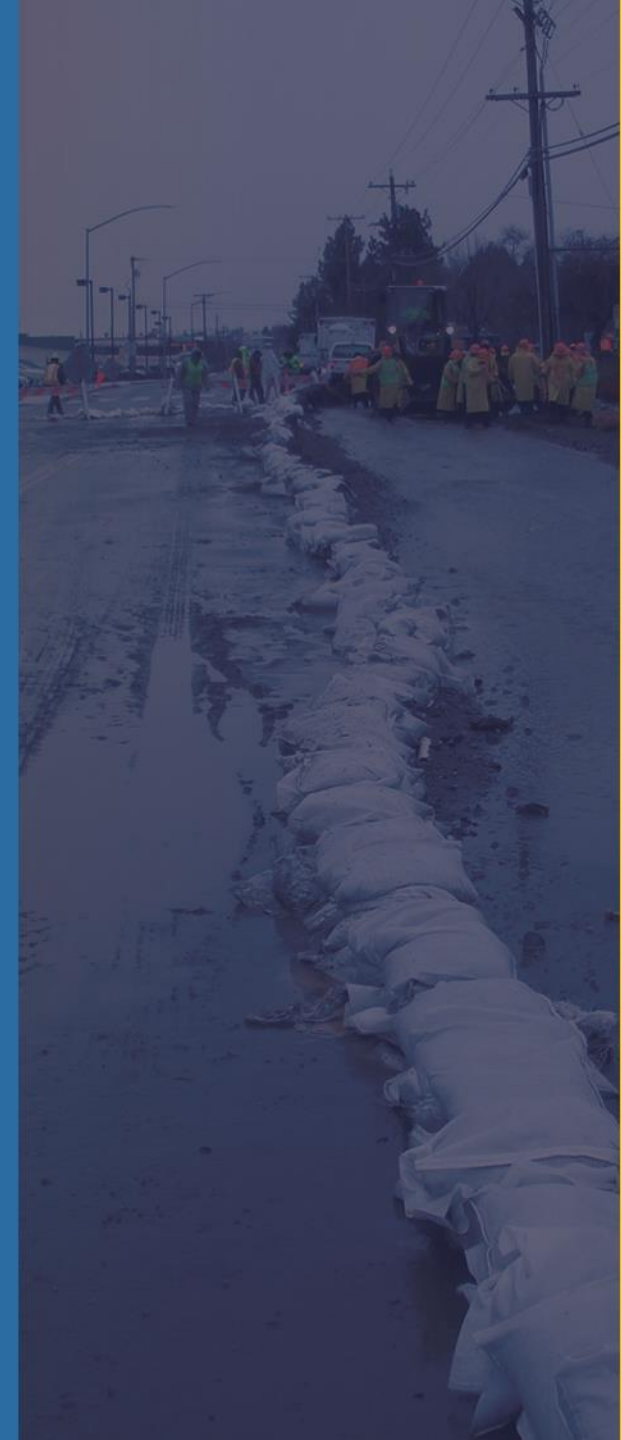
PROJECT NO. 201417000		DRAWING NAME STORM DRAIN		Figure 3	
West Carson City ADP Aerial Map					
SCALE: 1"=100'		SCALE: NONE		SHEET NO. 1 OF 1	
DESIGNED BY: ATC		CHECKED BY: ATC		DATE: 08/2021	
DRAWN BY: RPK		APPROVED BY: [Signature]		REVISION	
Kimley»Horn		2014 KIMLEY-HORN AND ASSOCIATES, INC.		BY DATE APPR.	
Engineering, Planning and Environmental Consultants		7740 North 16th Street, Suite 300 Phoenix, Arizona 85020 (602) 944-5000			





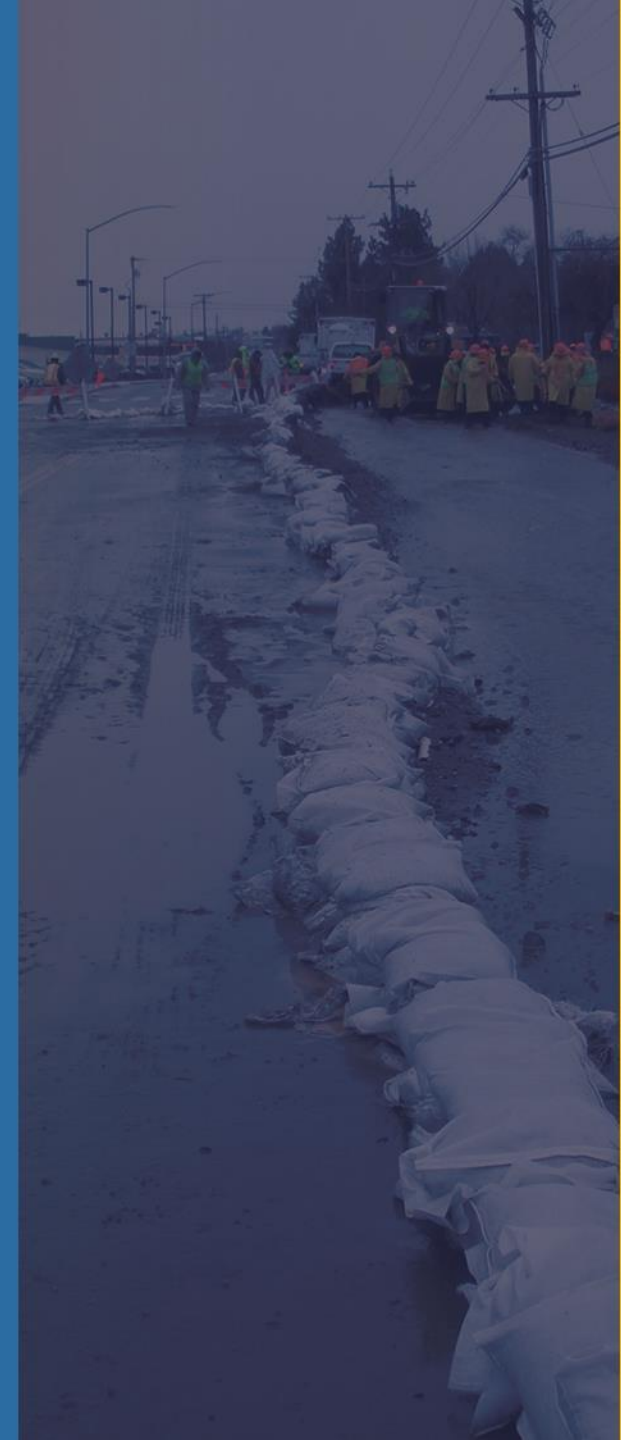
# Project Purpose

- Project more accurately defined flood hazards in West Carson area
- Build on previous hydrologic and hydraulic studies
- Reduce flood hazards and increase community resiliency in the future

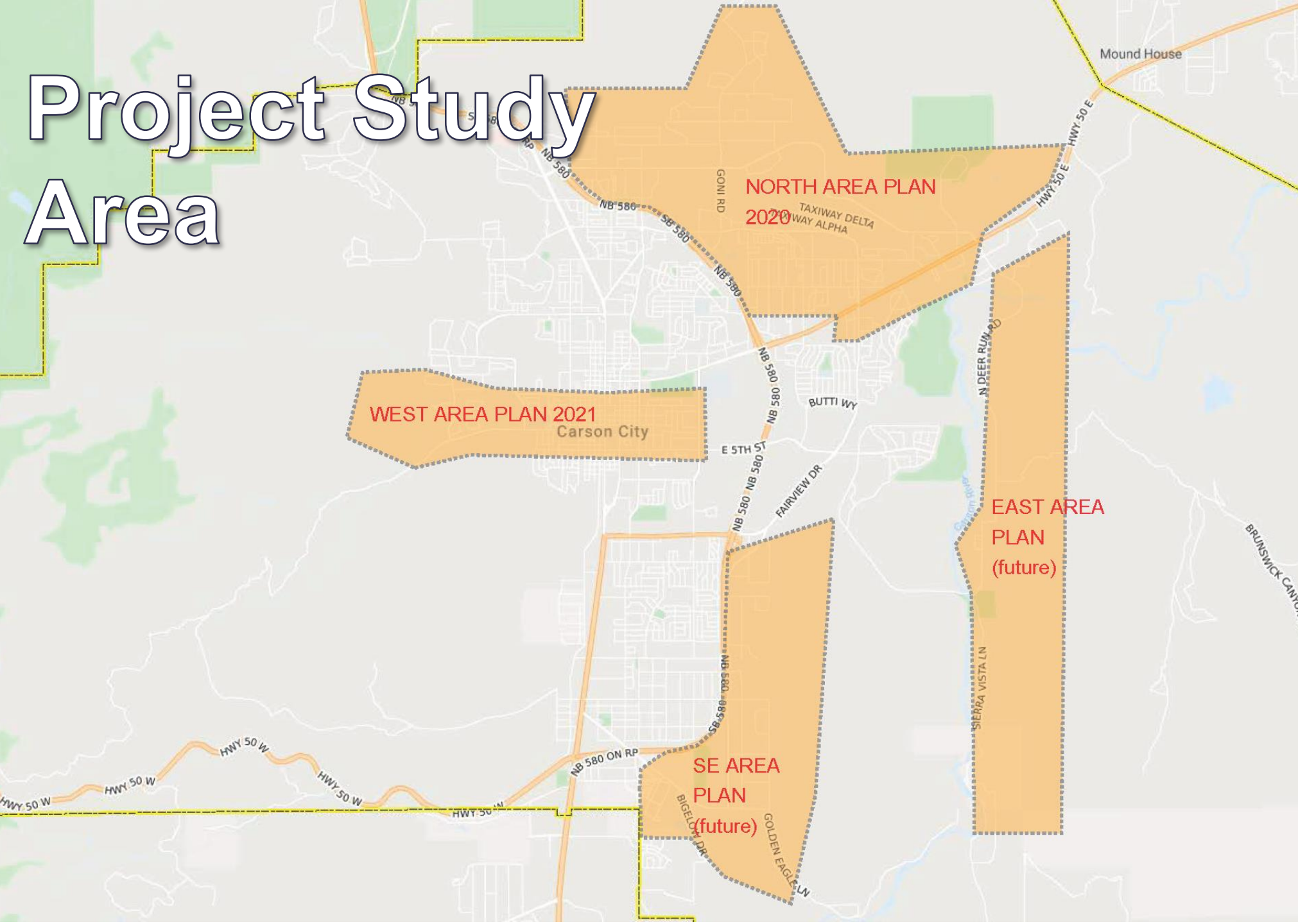


# Project Goals

- Identify mitigation solutions for areas impacted by flood flows along Kings Canyon Creek and Ash Canyon Creek.
- Investigate the feasibility of a storm water basin immediately upstream of Longview Way
- Develop conceptual mitigation solutions for the urban areas downstream of Longview Way



# Project Study Area

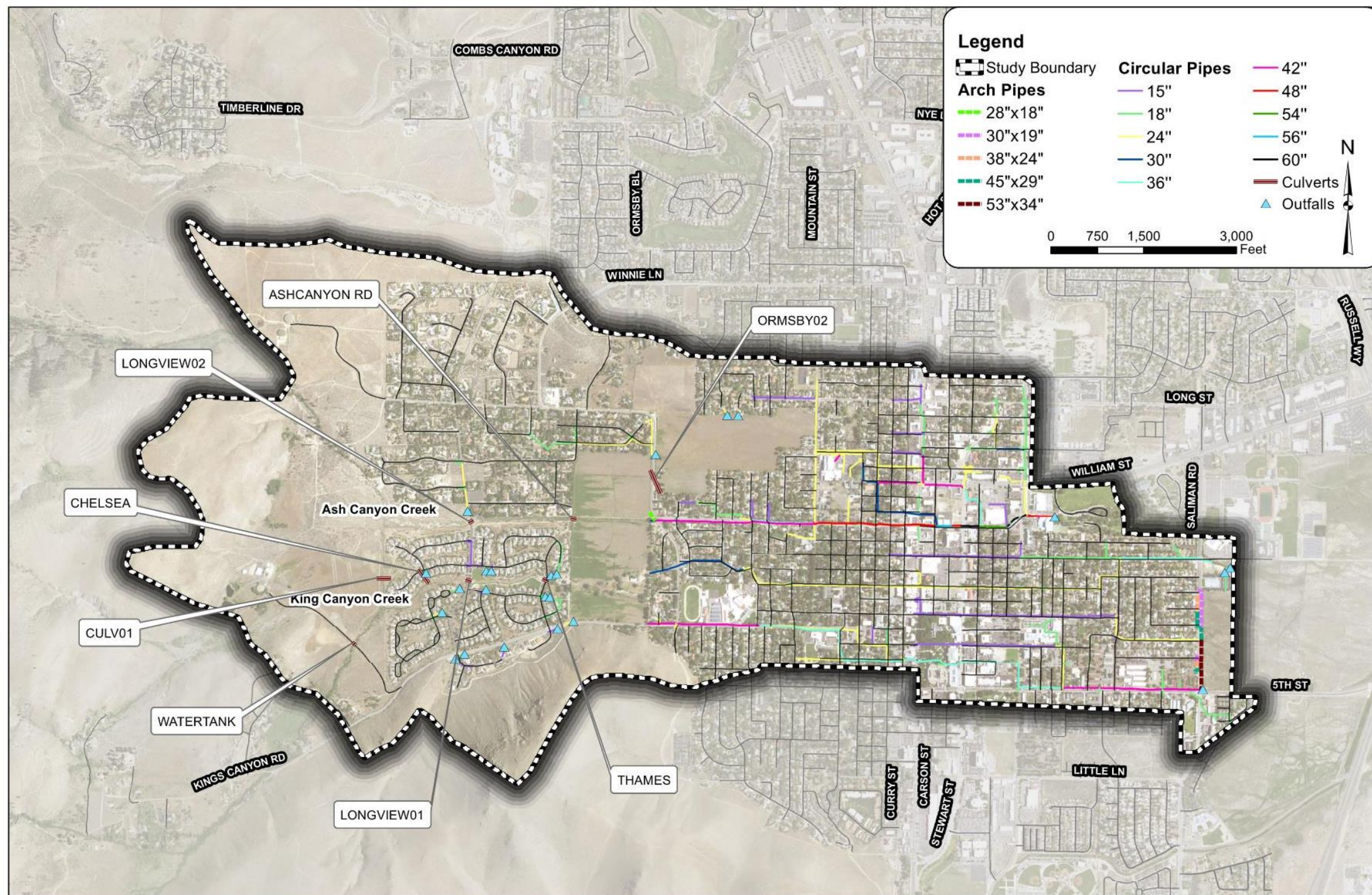


MAP FOR REFERENCE ONLY  
NOT A LEGAL DOCUMENT

Carson City, NV makes no claims and no warranties, expressed or implied, concerning the validity or accuracy of the GIS data presented on this map.

Geometry updated 11/17/2018  
Data updated 11/17/2018

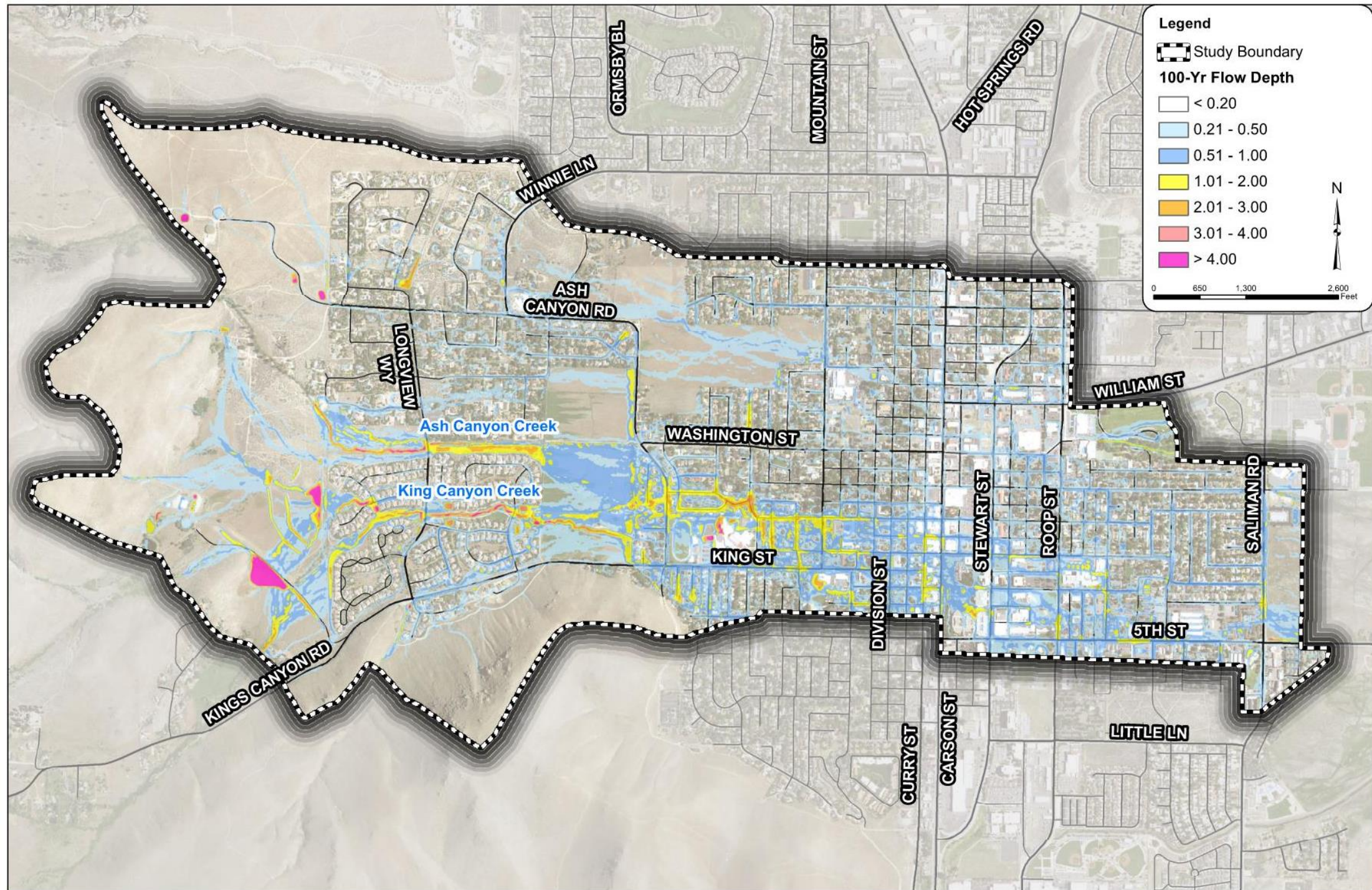




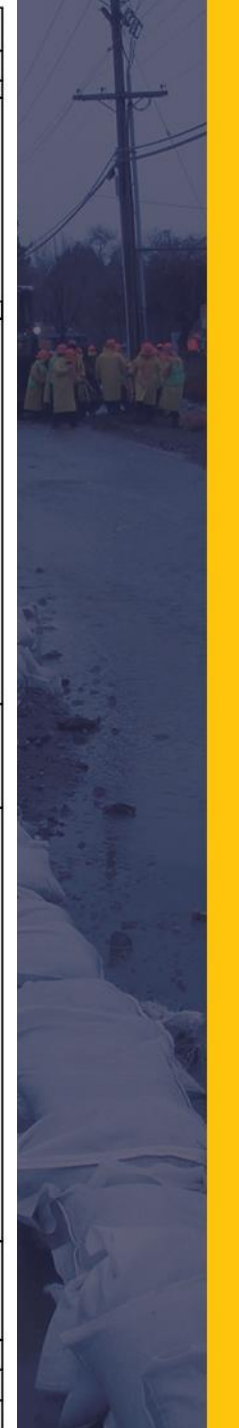
PROJECT NO.	251417900
DRAWING NAME	STORM DRAIN & CULVERTS
Figure 15	
SCALE: 1"=100'	SCALE: 1"=100'
DESIGNED BY: ATC	ATC
DRAWN BY: ROK	ROK
CHECKED BY: ATC	ATC
DATE: 06/03/21	06/03/21
Kimley»Horn	
2014 KIMLEY-HORN AND ASSOCIATES, INC. Engineering, Planning and Environmental Consultants 440 North Street, Suite 300 Phoenix, Arizona 85001 (602) 944-5500	
NO.	REV.
	DATE
	APPROVED







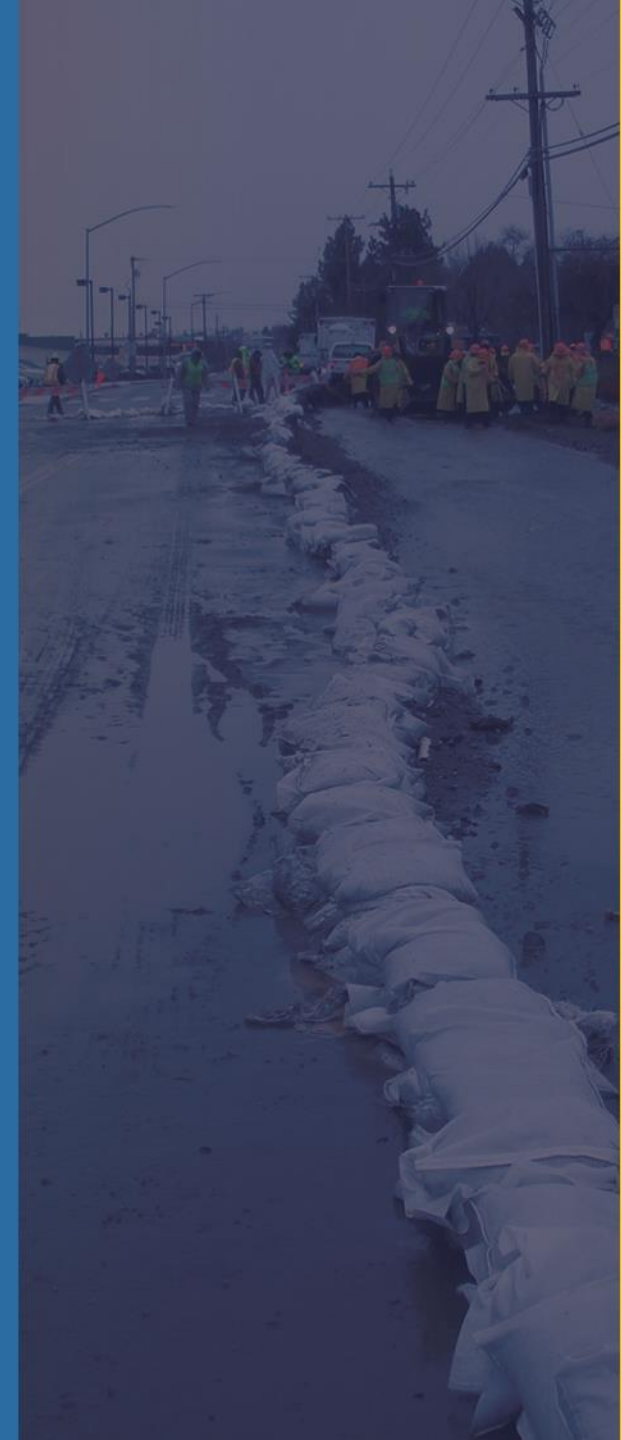
PROJECT NO. 201417000		DESIGNED BY ATC		DRAWING NAME EX 100-YR FLOW DEPTHS	
Figure 22		CHECKED BY GSR		DATE 06/02/17	
West Carson City ADP Existing 100-Year Flow Depths		Kimley»Horn		2014 KIMLEY-HORN AND ASSOCIATES, INC. 7740 North 16th Street, Suite 300 Phoenix, Arizona 85020 (602) 944-5500 Engineering, Planning and Environmental Consultants	
		NO.		REVISION	
		BY		DATE	
				APPR.	





# 1<sup>st</sup> Virtual Information Meeting

- December 9, 2020
- Existing conditions and initial results
- Collect public input





# West Carson City Area Drainage Plan Virtual Information Meeting

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## Have you experienced flood damage?

Residents and property owners are invited to learn about the  
**West Carson City Area Drainage Plan**  
and share your concerns, comments, and past flood experience with drainage  
experts at our *virtual information meeting!*

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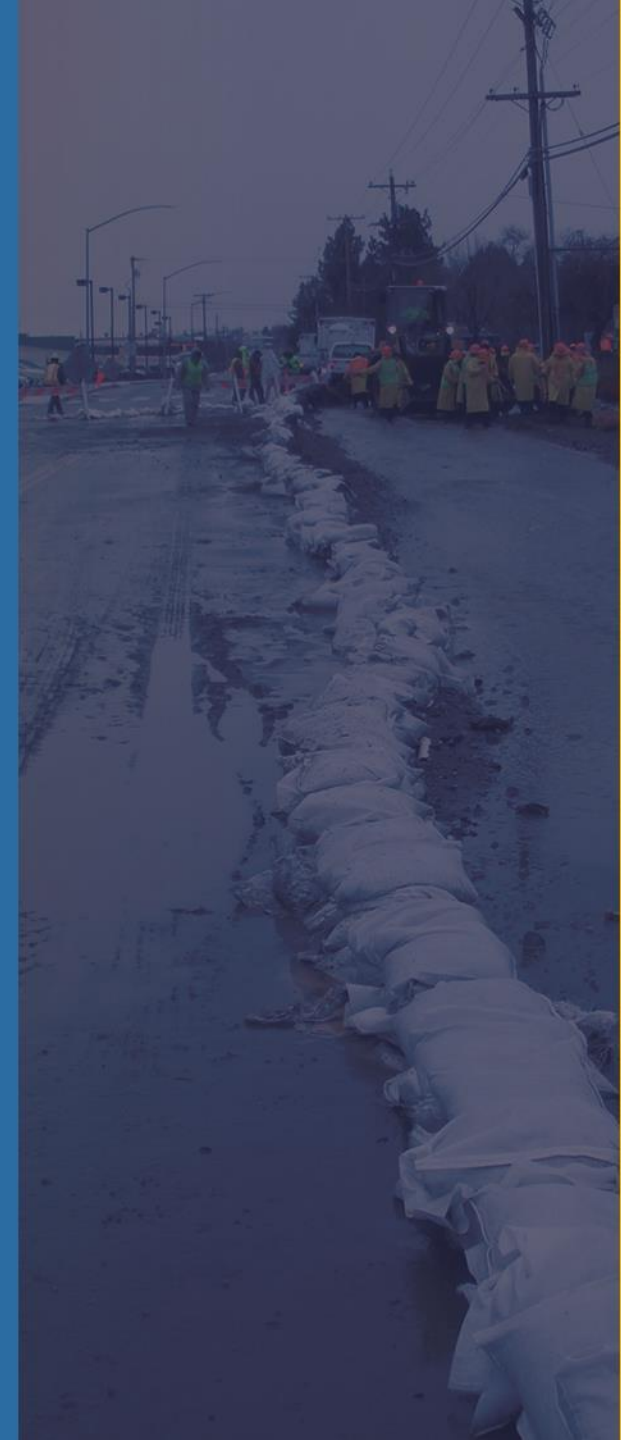
Please join us on  
**Wednesday, December 9, 2020**  
**6 – 7:30 pm**

(a short presentation will begin at 6 pm)

**Zoom (virtual) Meeting Information:**  
[tinyurl.com/WestCCDrainageMeeting](https://tinyurl.com/WestCCDrainageMeeting)

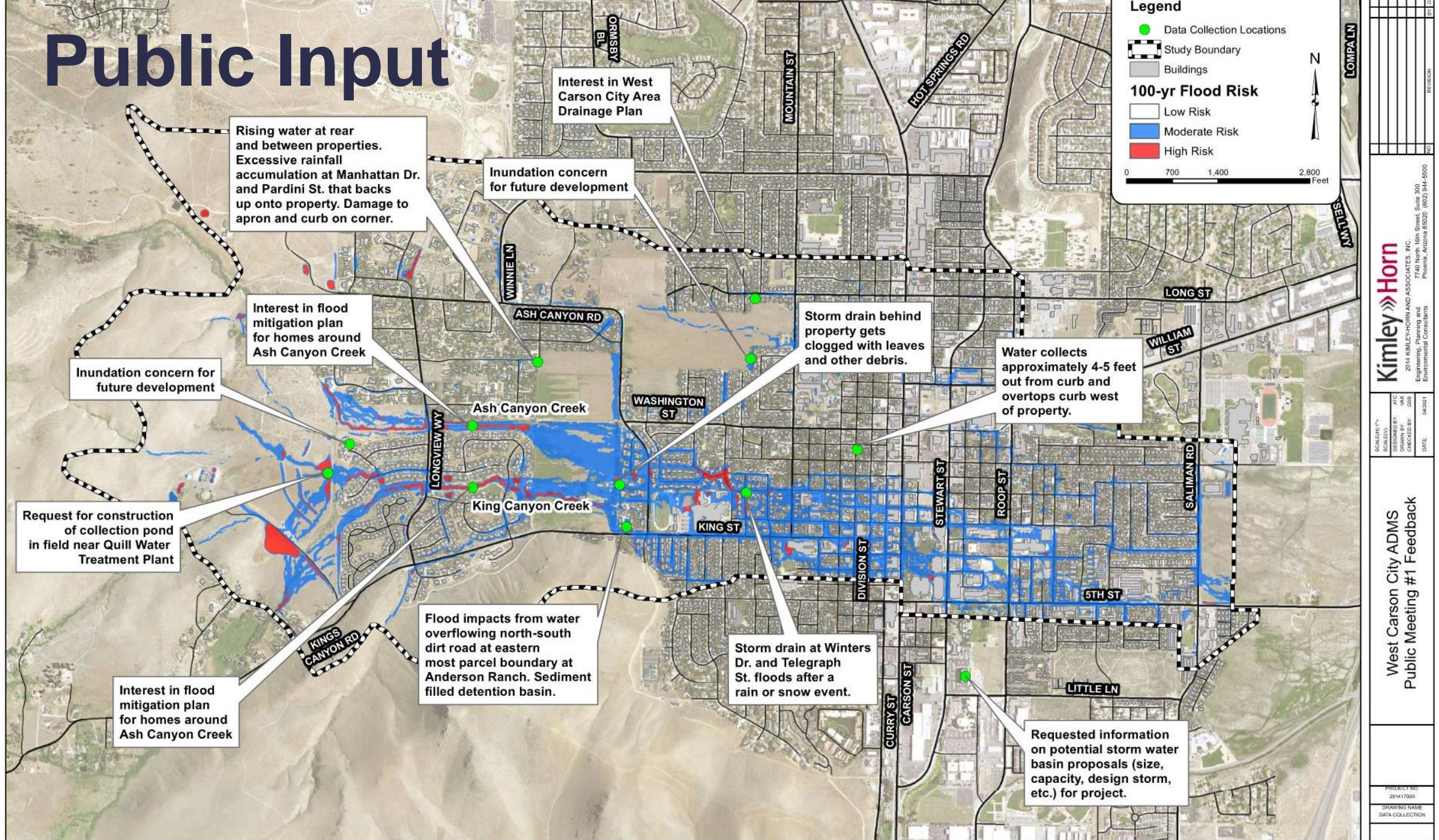


**Or use the QR Code above to join**





# Public Input



**Kimley»Horn**

2014 KIMLEY-HORN AND ASSOCIATES, INC.  
7740 North 16th Street, Suite 300  
Phoenix, Arizona 85020 (602) 944-5500

SCALE: 1" = 100'  
DESIGNED BY: ATC  
DRAWN BY: JMK  
CHECKED BY: JMK  
DATE: 04/20/21

West Carson City ADMS  
Public Meeting #1 Feedback

PROJECT NO:  
201417000  
DRAWING NAME:  
DATA COLLECTION



# West Carson City Area Drainage Plan Virtual Information Meeting #2

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## What's the Plan?

Residents and property owners are invited to learn about the  
**West Carson City Area Drainage Plan**  
and share your input and comments on future drainage infrastructure with  
drainage experts at our *virtual information meeting!*

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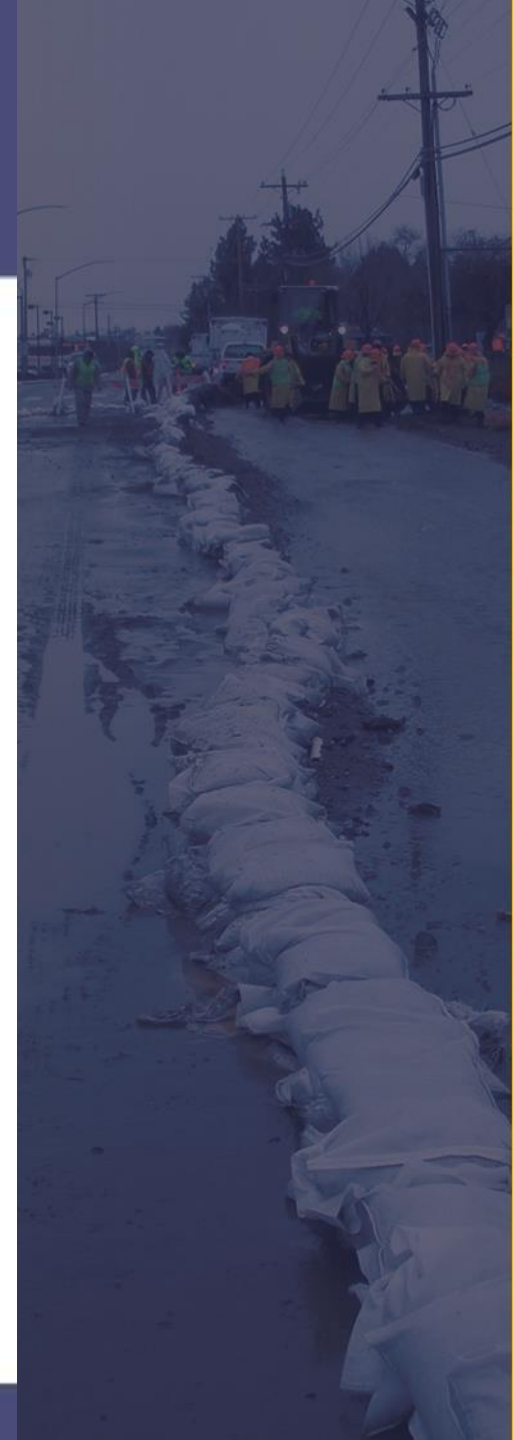
Please join us on  
**Tuesday, May 11, 2021**  
**6 – 7:30 pm**

(a short presentation will begin at 6 pm)

**Zoom (virtual) Meeting Information:**  
[tinyurl.com/2WestCCDrainageMeeting](https://tinyurl.com/2WestCCDrainageMeeting)



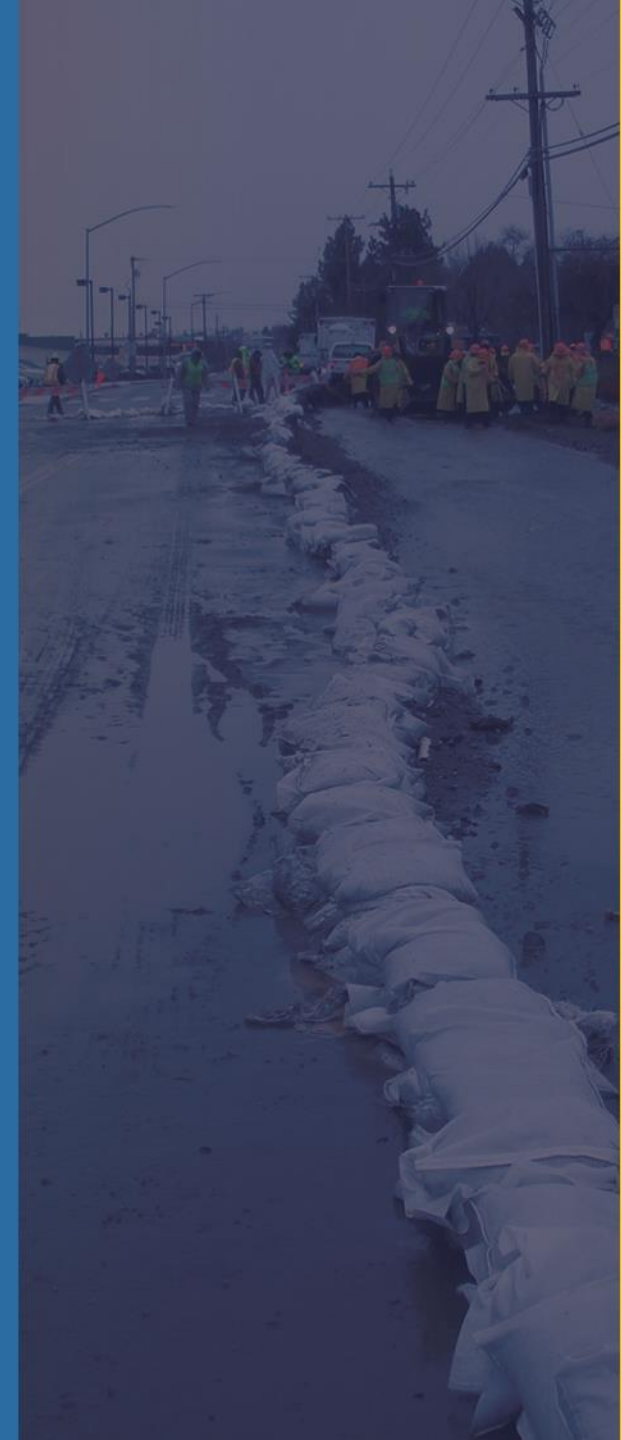
**Or use the QR Code above to join!**



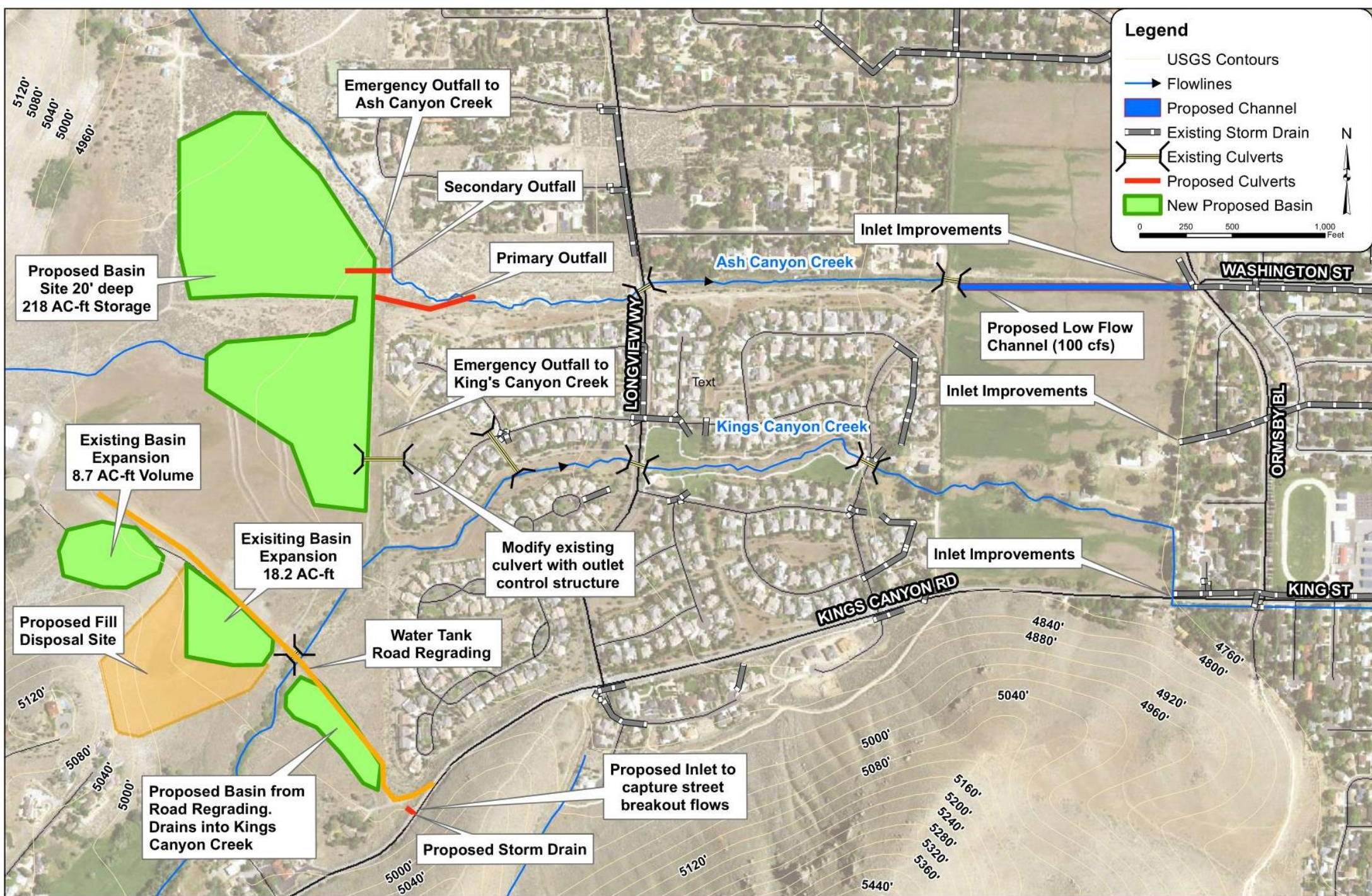


# Design Goals

- 100-year protection
- Utilize available open space, City property, existing features
- Match downstream storm drain capacity







### Legend

- USGS Contours
- Flowlines
- Proposed Channel
- Existing Storm Drain
- Existing Culverts
- Proposed Culverts
- New Proposed Basin

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Engineering, Planning  
Environmental Consultants  
Phoenix, Arizona 85020 (602) 944-5000

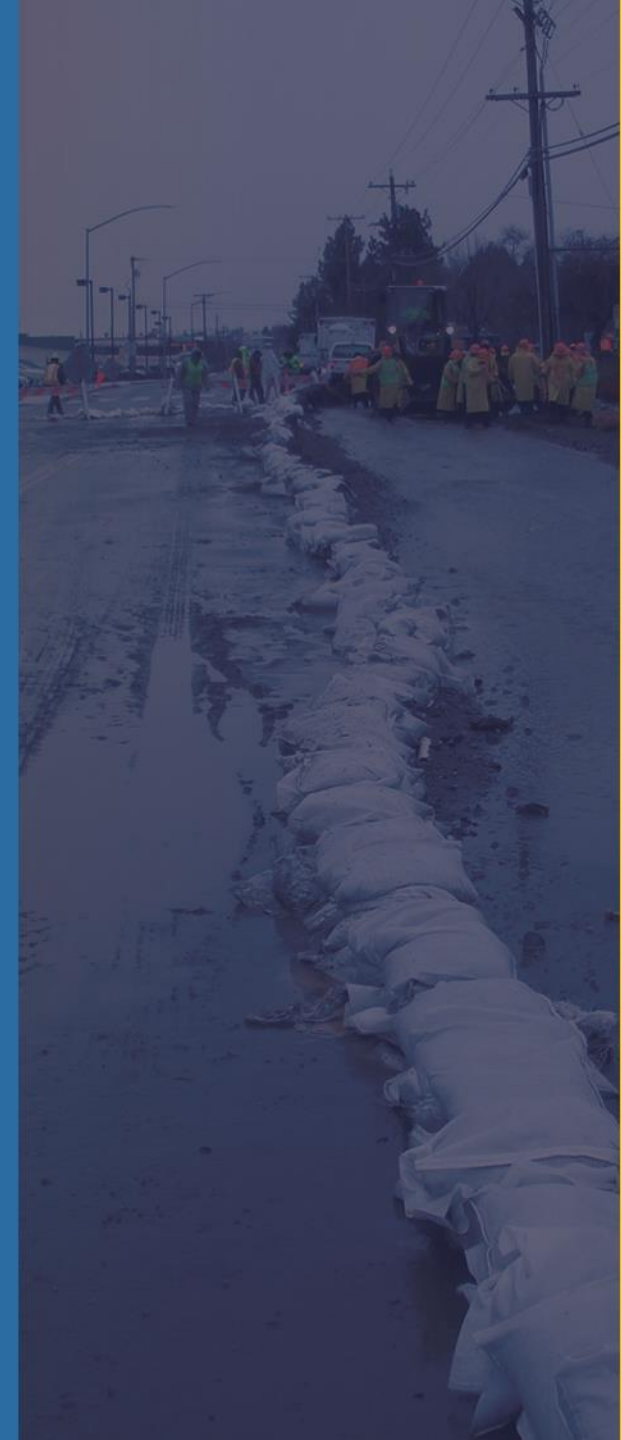
West Carson City ADP  
Design Concept Map  
Refined Ash and Kings Canyon Basins

PROJECT NO.  
201417000  
DRAWING NAME  
DESIGN CONCEPT  
ASH AND KINGS CANYON  
Figure 38



# Design Results

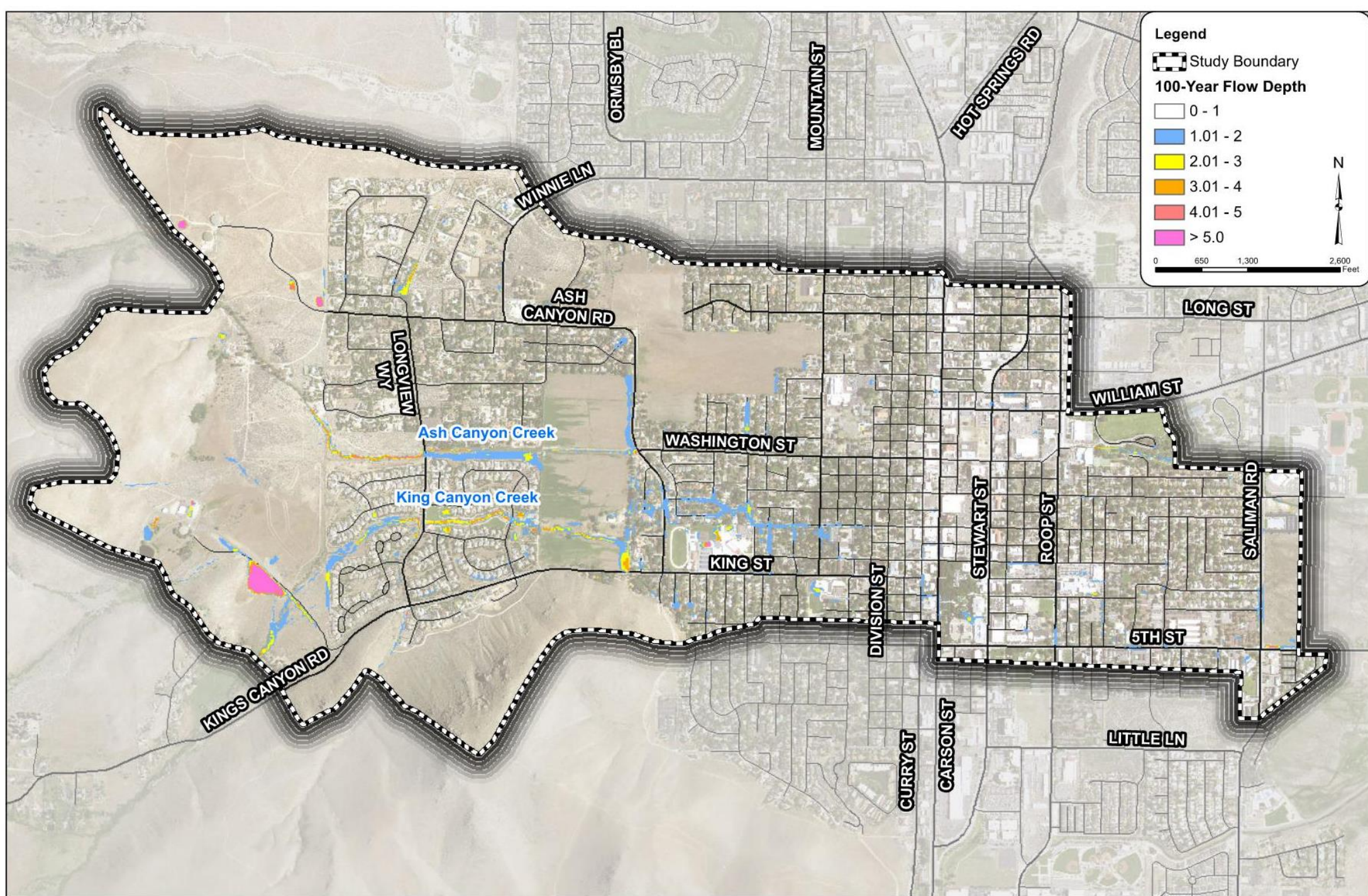
- 10-year protection
- Matches downstream storm drain capacity
- Significantly mitigated 100-year flood depths











PROJECT NO: 201417000		DESIGNED BY: ATC		DRAWN BY: JHB		CHECKED BY: GMB		DATE: 06/02/17		REVISION		BY		DATE		APPN	
DRAWING NAME: PROP. 100-YR FLOW DEPTHS		West Carson City ADP Proposed 100-Year Flow Depths		Kimley»Horn		2014 KIMLEY-HORN AND ASSOCIATES, INC. Engineering and Environmental Consultants Phoenix, Arizona 85020 (602) 944-6000											



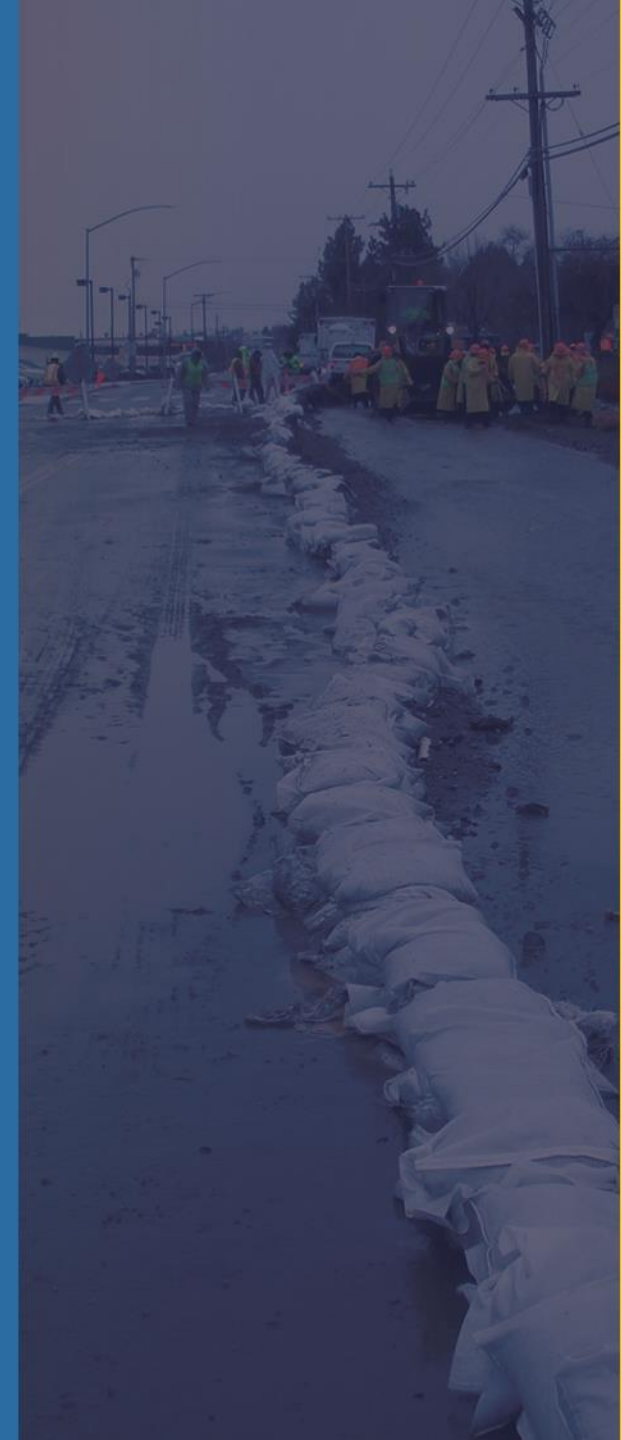






# Summary of Conceptual Design

- Preliminary cost - \$19.2M
  - Design & permitting - \$1.1M
  - Construction - \$18.1M
- Benefit/Cost Ratio – 1.35
- Potential FEMA cost share – 75%





# Next Steps

- Possible Board Action:
  - Discussion
  - Proposed acceptance and direction to staff concerning the exploration of funding opportunities

