



Letter of Map Revisions LOMR

January 9, 2020

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What is a Letter of Map Revision

- Letter of Map Revision (LOMR) – FEMA’s modification to an effective Flood Insurance Rate Map (FIRM) and/or Flood Boundary / Floodway.
- FIRM – the official flood insurance map of a community of which FEMA has indicated the flood hazard areas and the risk premium zones for the community.

Source: www.fema.gov

Recent LOMRs by EPWater and CoEP

- Northeast LOMR – Effective June 2018
- Pico Norte LOMR – Effective December 2019

NORTHEAST LOMR

Northeast Streams - FP 13 and FP 14



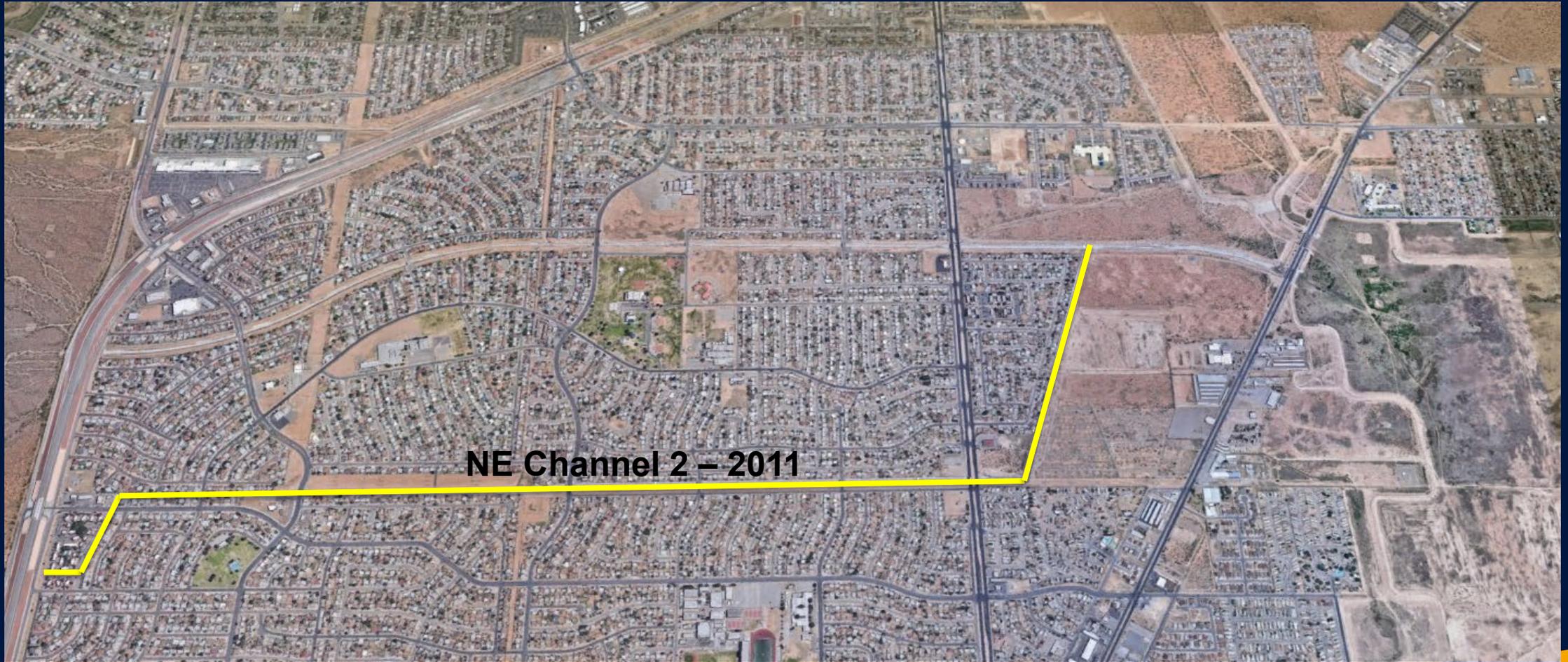
NE Rain Events



3'-10" above
the channel
bridge



NE Channel 2 Improvements



NE Channel 2 - 2011

NE Channel 2 Improvements

- Construction of 19,000_± linear feet of concrete channel to contain the 25-year storm

NE Channel 2 Improvements



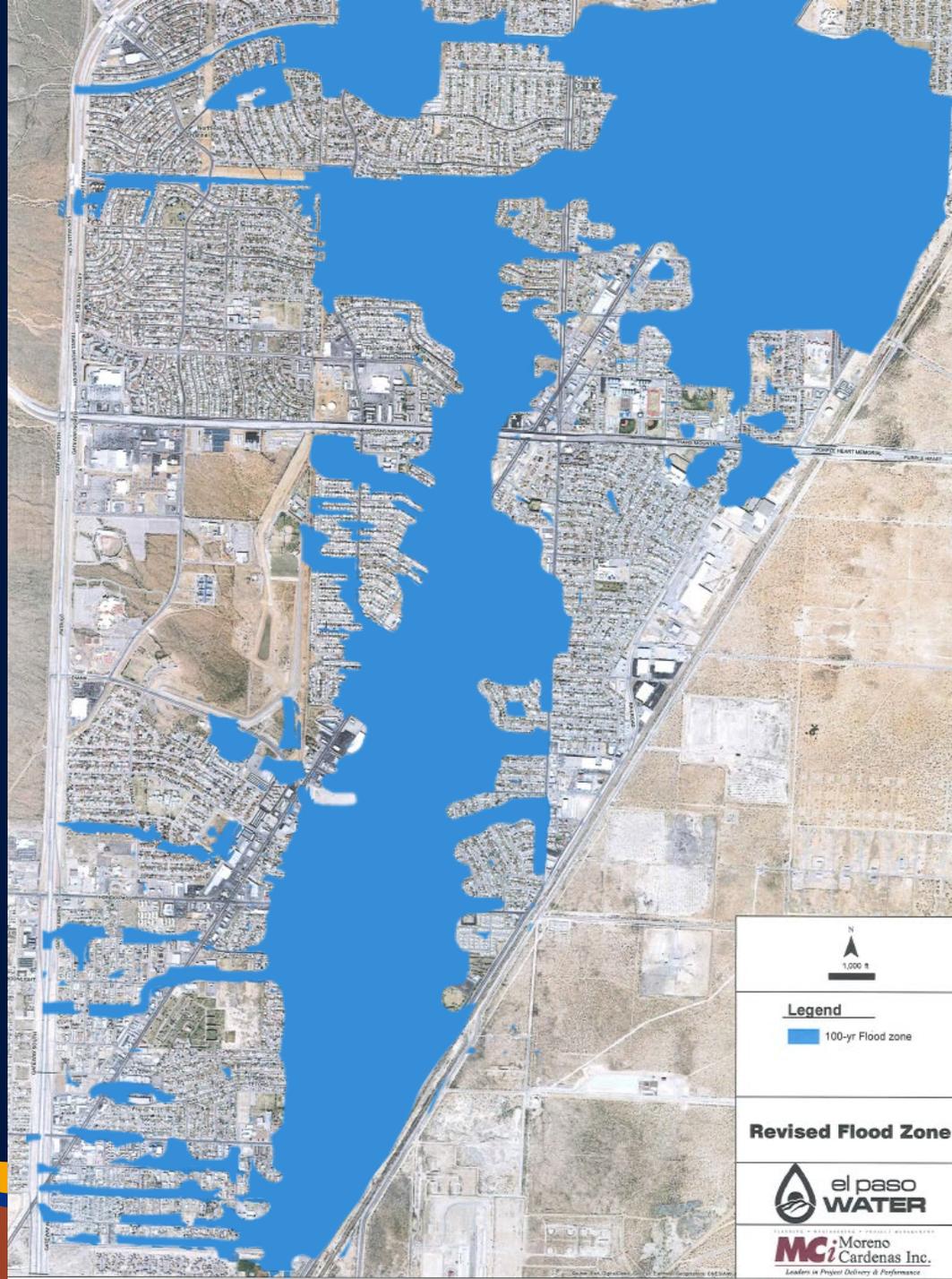
Letter of Map Revision (LOMR)

- Project completed in 2011
- LOMR Application submitted 07/28/14
- Extensive coordination with FEMA
- Public Outreach – December 2017
- Approved Map Revision – January 2018
- Effective – June 2018

Investment vs. Benefit

- Investment:
 - NE Channel 2 Construction - \$14.6 M
- Benefit:
 - 5,000 \pm properties removed from flood zone
 - Removed properties - Flood Insurance
 - 747 properties have flood insurance
 - *Average flood insurance premium per household - \$ 895
 - Sum of annual premiums - \$ 670,000 \pm
 - If everyone were to have flood insurance – Savings \$ 9M

Previous
FEMA
Northeast
Floodplain
Map



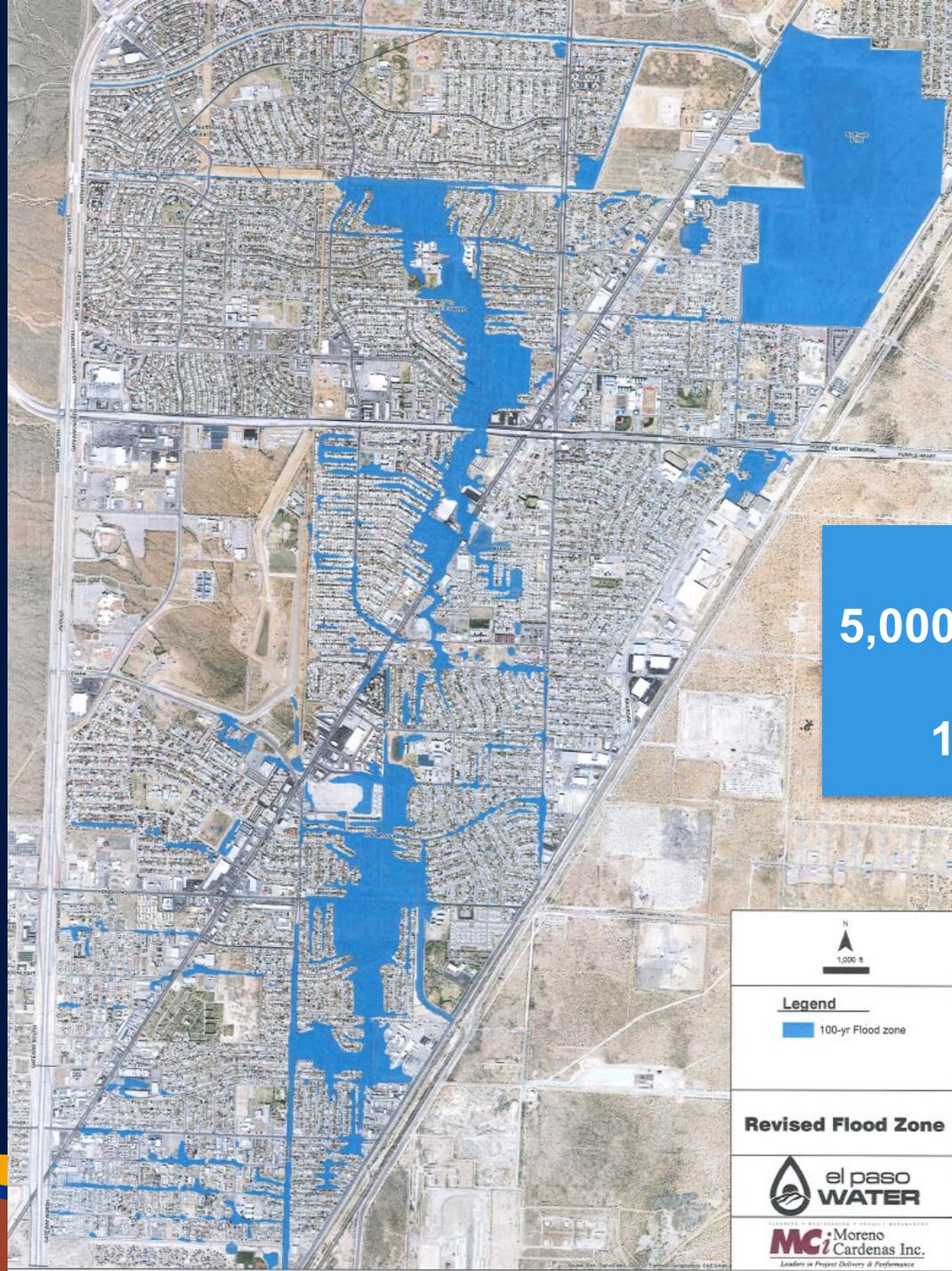
Legend
■ 100-yr Flood zone

Revised Flood Zone



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Leaders in Project Delivery & Performance

**New
FEMA
Northeast
Floodplain
Map**



**Approximately
5,000 properties removed
from the
100-yr flood zone**

N
1,000 ft

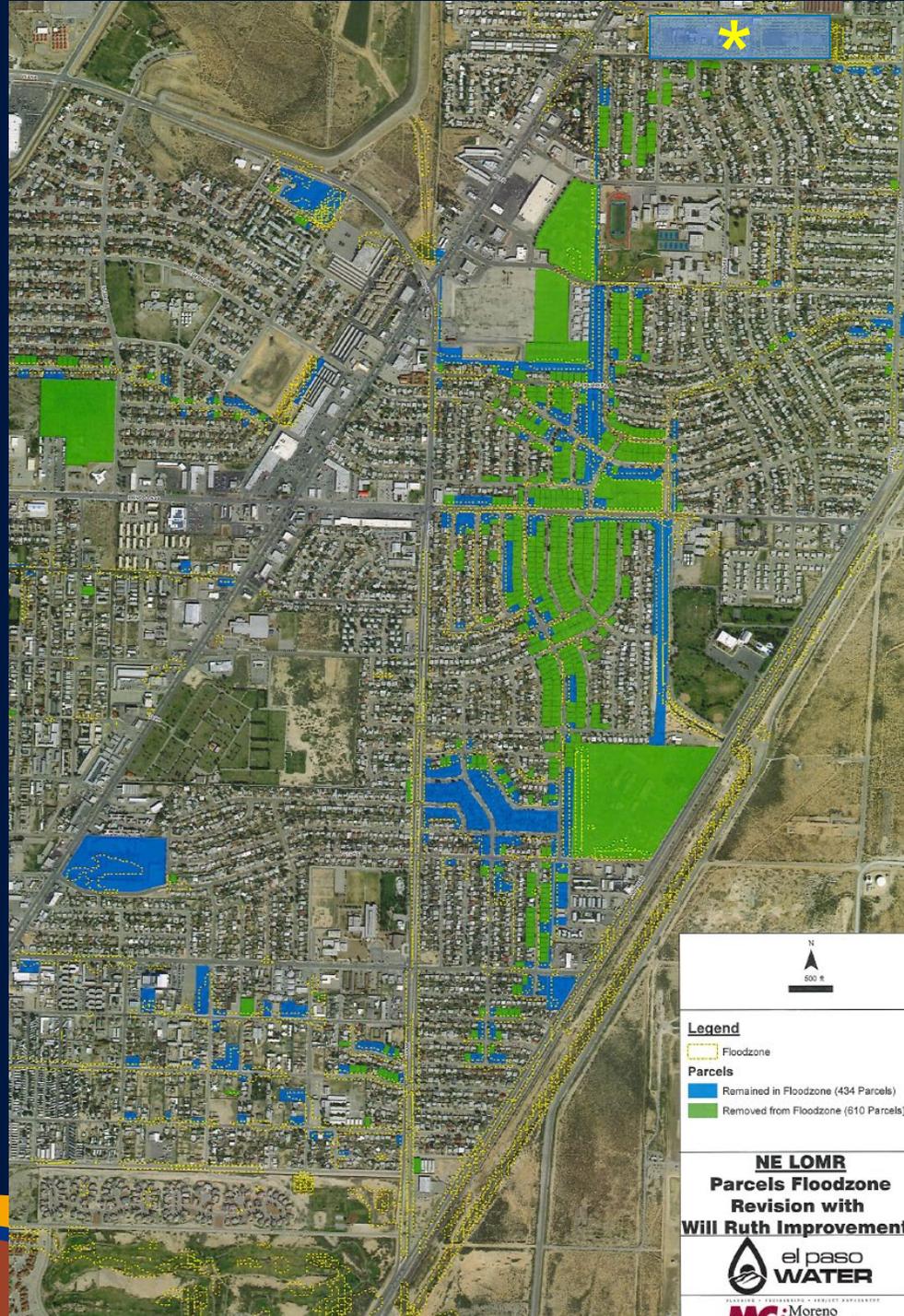
Legend
100-yr Flood zone

Revised Flood Zone

el paso WATER

MCI Moreno Cardenas Inc.
Leaders in Project Delivery & Performance

Proposed Will Ruth Pond



* Will Ruth Pond

Additional
610 properties will be
removed from the
100-yr flood zone

- Removed from 100-yr flood zone
- Remain in 100-yr flood zone

PICO NORTE LOMR

EAST EL PASO

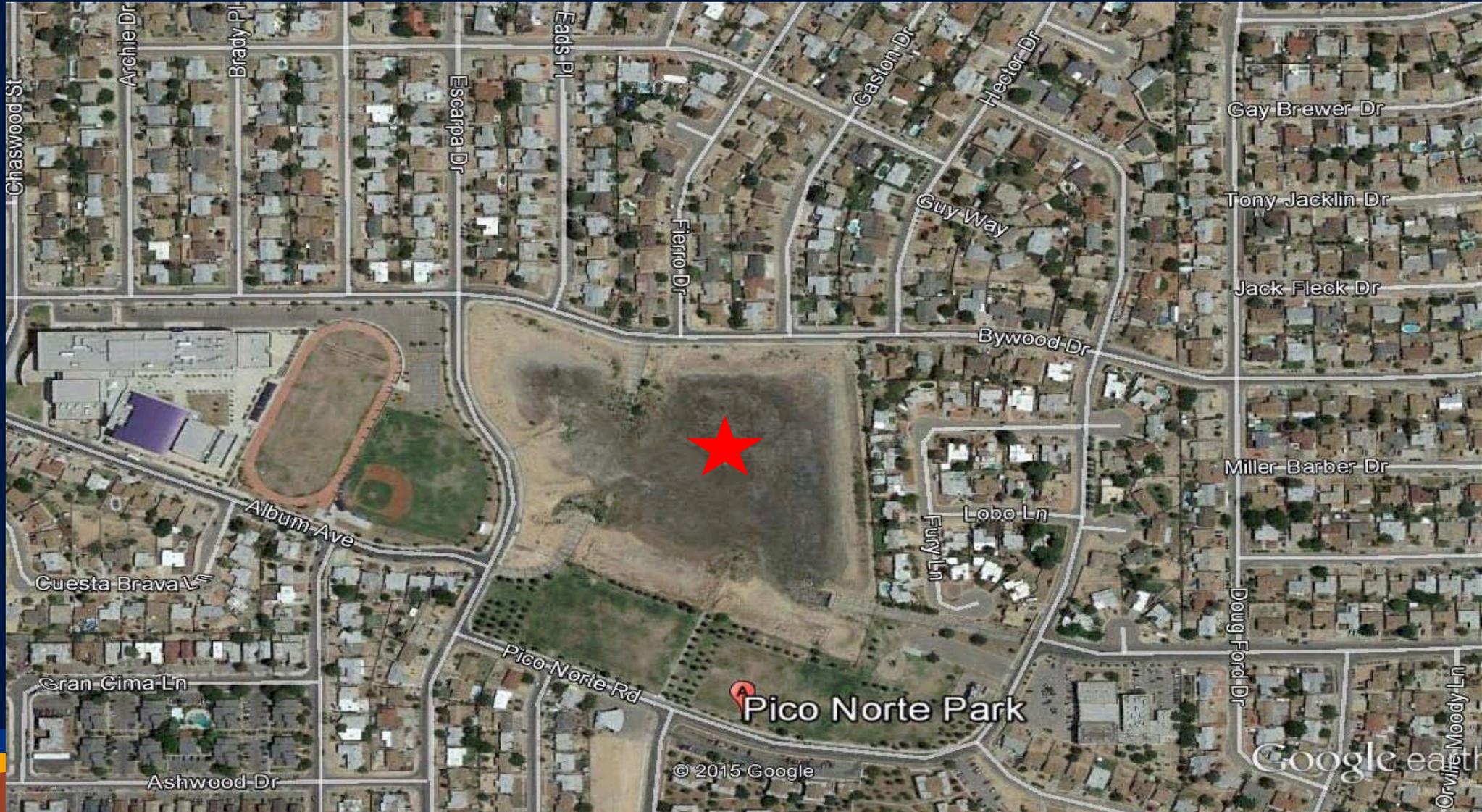
Pico Norte Rain Events



Pico Norte Area Improvements

- Phase 1 – Pico Norte Pond Improvements
- Phase 2 – Sam Snead Storm Drain Improvements
- Phase 3 – Bywood Drive Drainage Improvements

PHASE 1 - PICO NORTE POND IMPROVEMENTS



PROJECT DESCRIPTION

- Phase 1 – Pico Norte Pond Improvements
 - Completed 2016
 - Construction Cost \$2M
 - Project Description
 - Excavate and Expand the Pond
 - Improve the Pond Side Slopes
 - Improve the Existing Drainage Structures
 - Provide New Perimeter Rock Wall
- 

2014 Flood Damage



Remediation Improvements

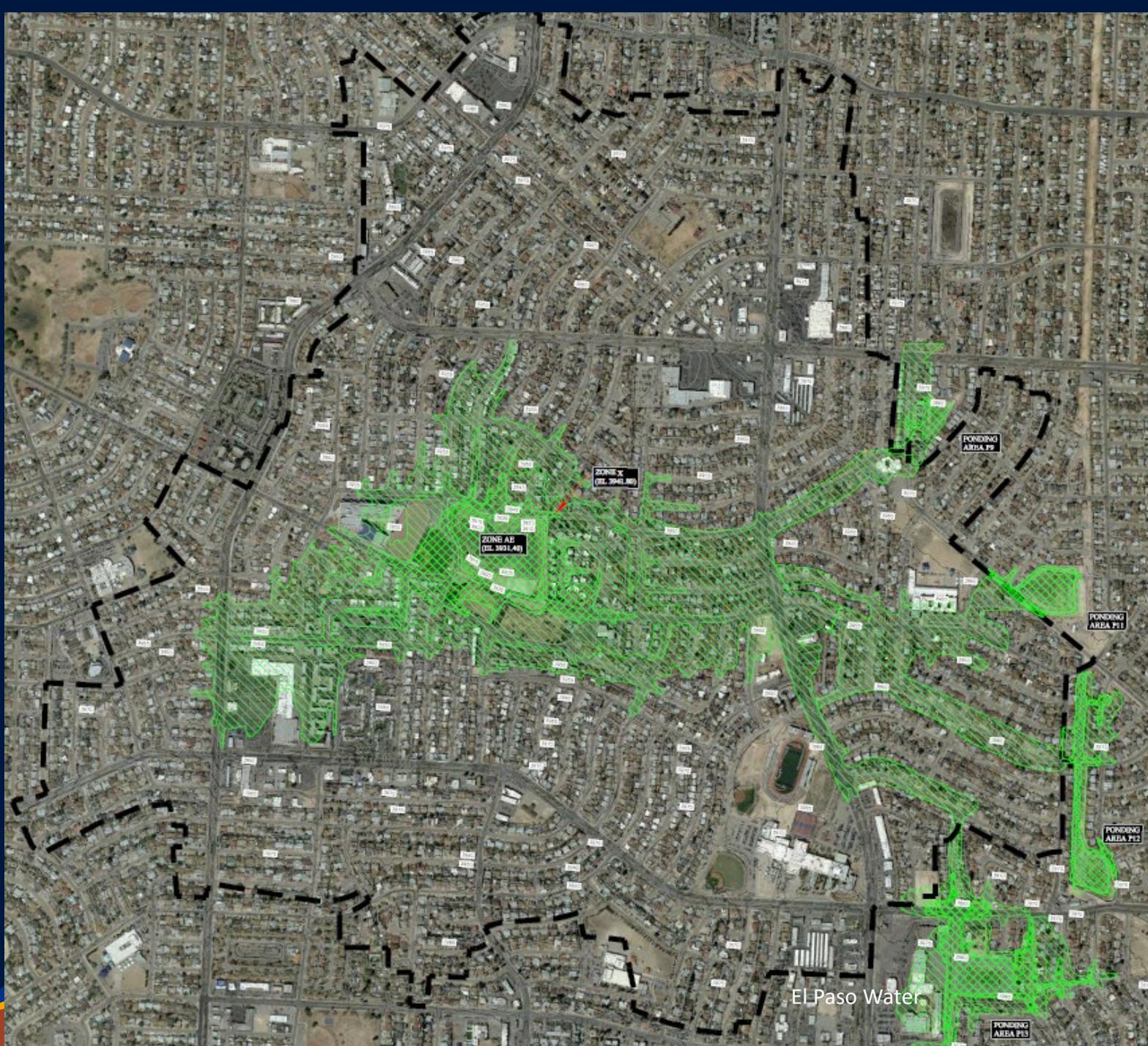




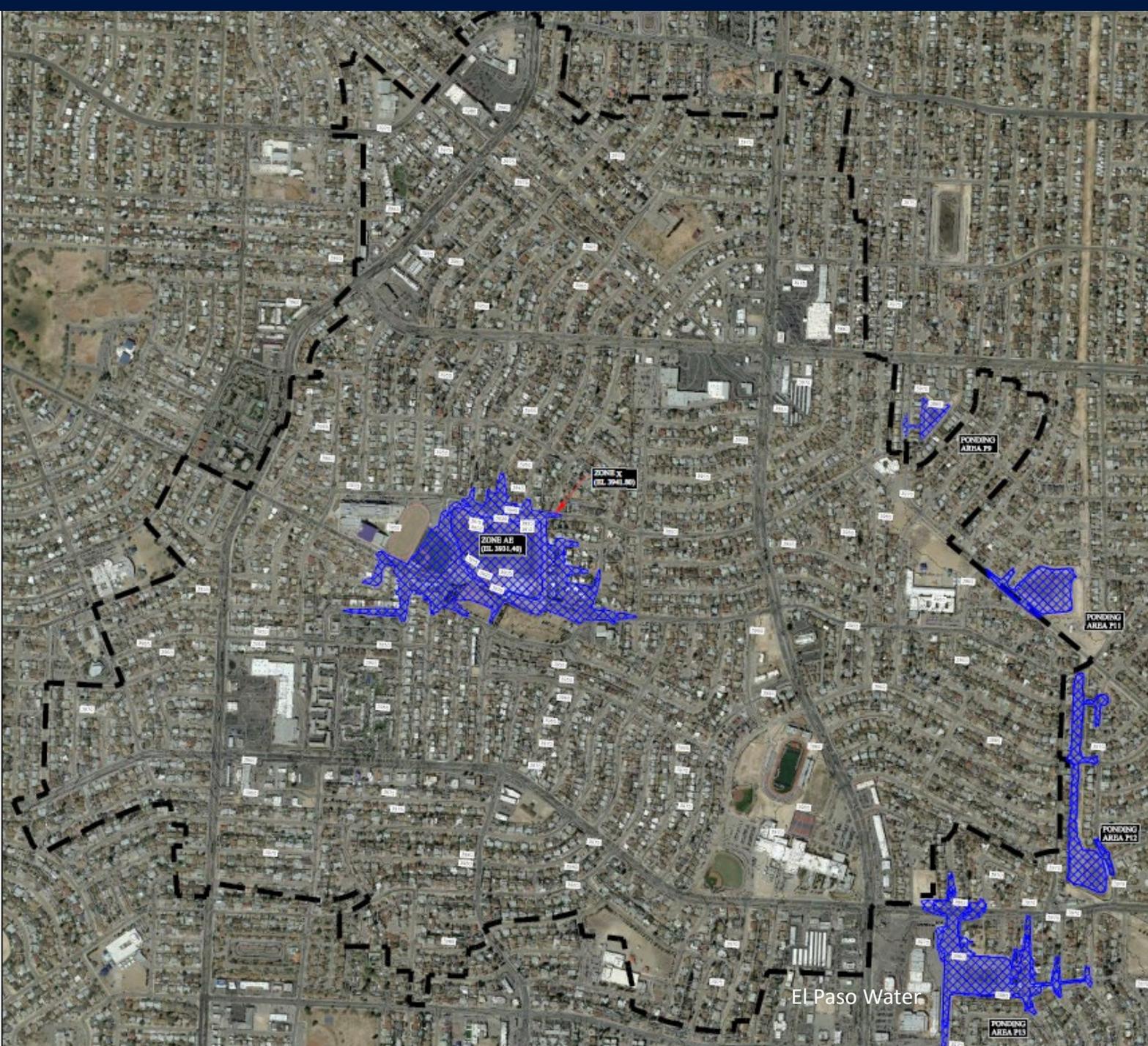
Pico Norte Pond Improvements

Bywood Drive Drainage System Improvements





Previous FIRM



New FIRM

Pico Norte LOMR

- LOMR Application submitted by City of El Paso's Land Development
 - City's H&H Modelers modeled the pond improvements within the drainage area
 - 05/21/19 – LOMR Application submitted to FEMA
 - 90 day Review Period
 - Effective December 2019

Investment vs. Benefit

- Investment:
 - Pico Norte Pond Expansion - \$ 2M
- Benefit:
 - 1,110 ± properties removed from flood zone
 - Removed properties - Flood Insurance
 - Flood insurance – Savings \$ 2M

INTERIOR DRAINAGE STUDY

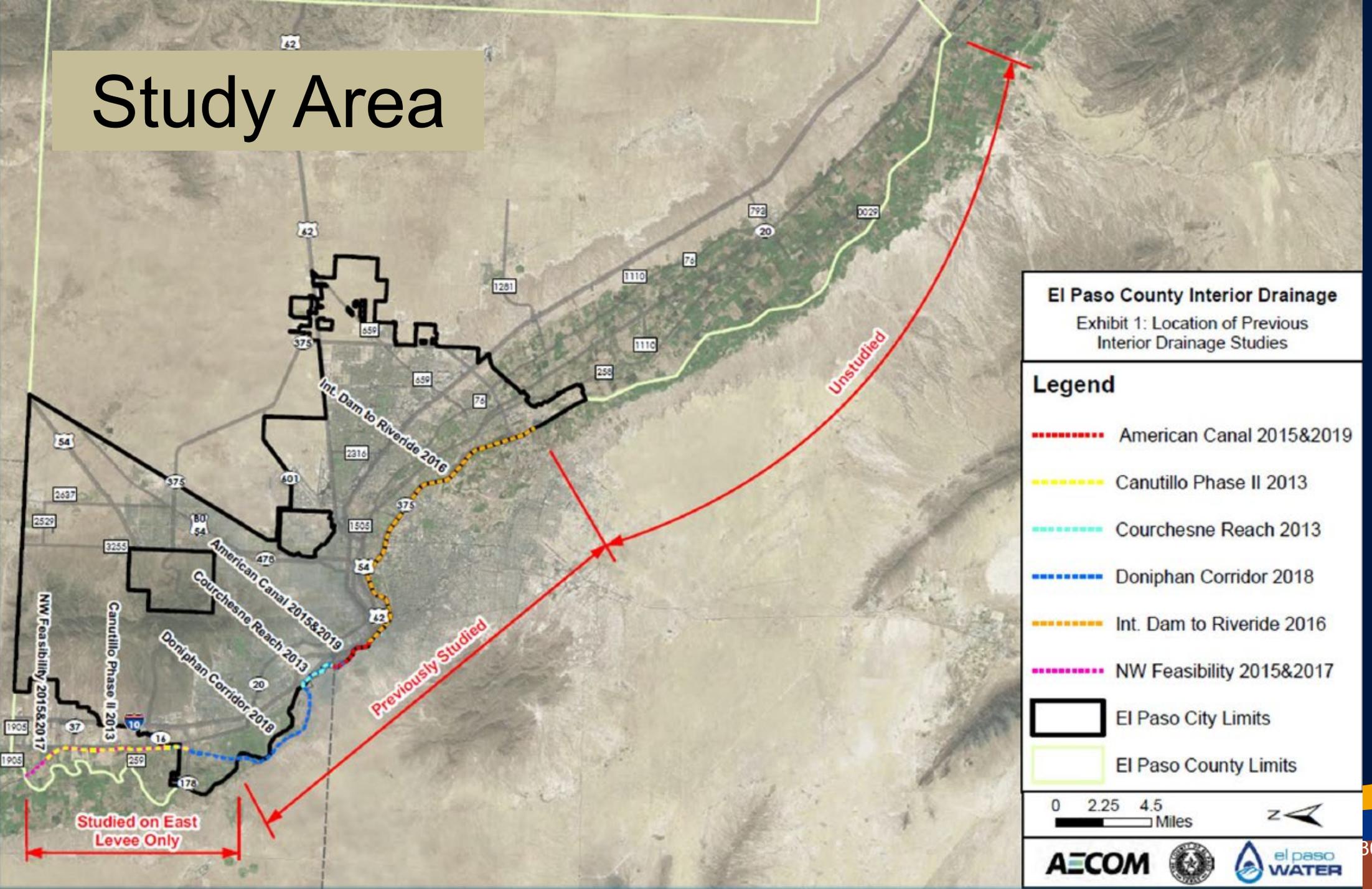
What is it

- A drainage analysis of the City that is required by FEMA to Certify the levees that provide protection to the City
- Its purpose is to determine the effects of the Rio Grande at different stages (high and low) on the levee and the interior drainage systems
- It is used to determine flood risk in urban areas
- In 2009, El Paso Water and El Paso County Texas entered into an Interlocal Agreement as a collaborative effort to develop regional Stormwater Planning
- In 2018, El Paso County had an interest in studying and developing a masterplan for the Montana Sector of the county that was not included in the original El Paso County Masterplan
- Both El Paso Water and El Paso County had also identified a need to complete a countywide Interior Drainage Study in order to certify levees within the county limits

History

- 2006 Flood
- 2009 – City of El Paso SWMP – EPWater and City of El Paso
 - Significant Stormwater Infrastructure Improvements
- 2010 – El Paso County SWMP – El Paso County and EPWater
- 2013 - Canutillo Phase II – USIBWC
- 2013 - Courchesne Reach - USIBWC
- 2014 – City of El Paso Interior Drainage Study – EPWater, City of El Paso, FEMA, USIBWC
- 2015 & 2019 – American Canal Project - USIBWC
- 2015 – 2017 – NW Feasibility Study – USACE and EPWater
- 2016 – International Dam to Riverside Weir – EPWater
- 2018 - Doniphan Corridor Study – TXDOT
- 2019 – Countywide Interior Drainage and Levee Certification – EPCounty and EPWater
- 2019 – Montana Sector SWMP – EPCounty and EPWater

Study Area



Activities 2019 - What we've done

- February – Kickoff meeting
 - Data collection
 - Draft data collection and modeling approach report
 - Modeling coordination with FEMA, USIBWC, County, City and EPWater
 - Field investigation of outfalls into the Rio Grande
 - Field investigation of recently constructed projects

What's next - Timeline (2020)

- March – Draft Interior Drainage Study Report
- May – Distribute revised report to stakeholders
- June – Stakeholder meeting
- July – Distribute final report to stakeholders

QUESTIONS?