

LOCATION DESCRIPTION

Location: This area includes Edds Sand Trail and extends from Old Black Canyon Highway in the east to the intersection of Hill Street and Kloss Ave in the west. It also encompasses the southern portion of Bailey Hill Road. Critical infrastructure within this area includes the water distribution building located on Old Black Canyon Highway.

Problem Statement: This area was identified by the Town and County prior to starting the project. Edds Sands Trail is the primary conveyance for the wash and floods during storm events. During the public meeting, it was brought up that the southern end of Bailey Hill Road floods as well as Edds Sand Trail, cutting off access to Bailey Hill Road, Mirage Road, and Stonewall Drive.

Potential Solutions:

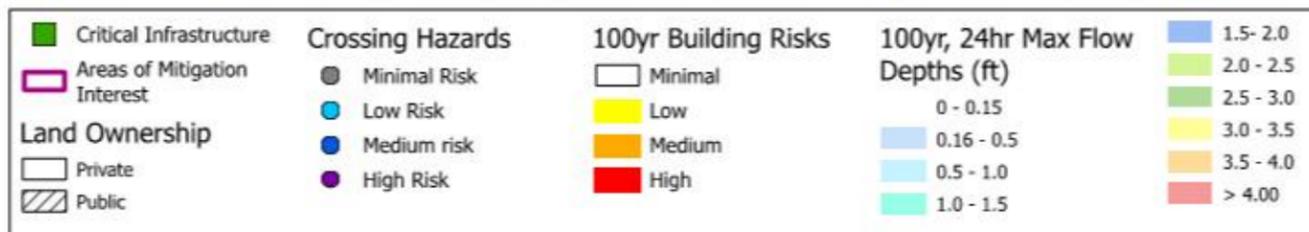
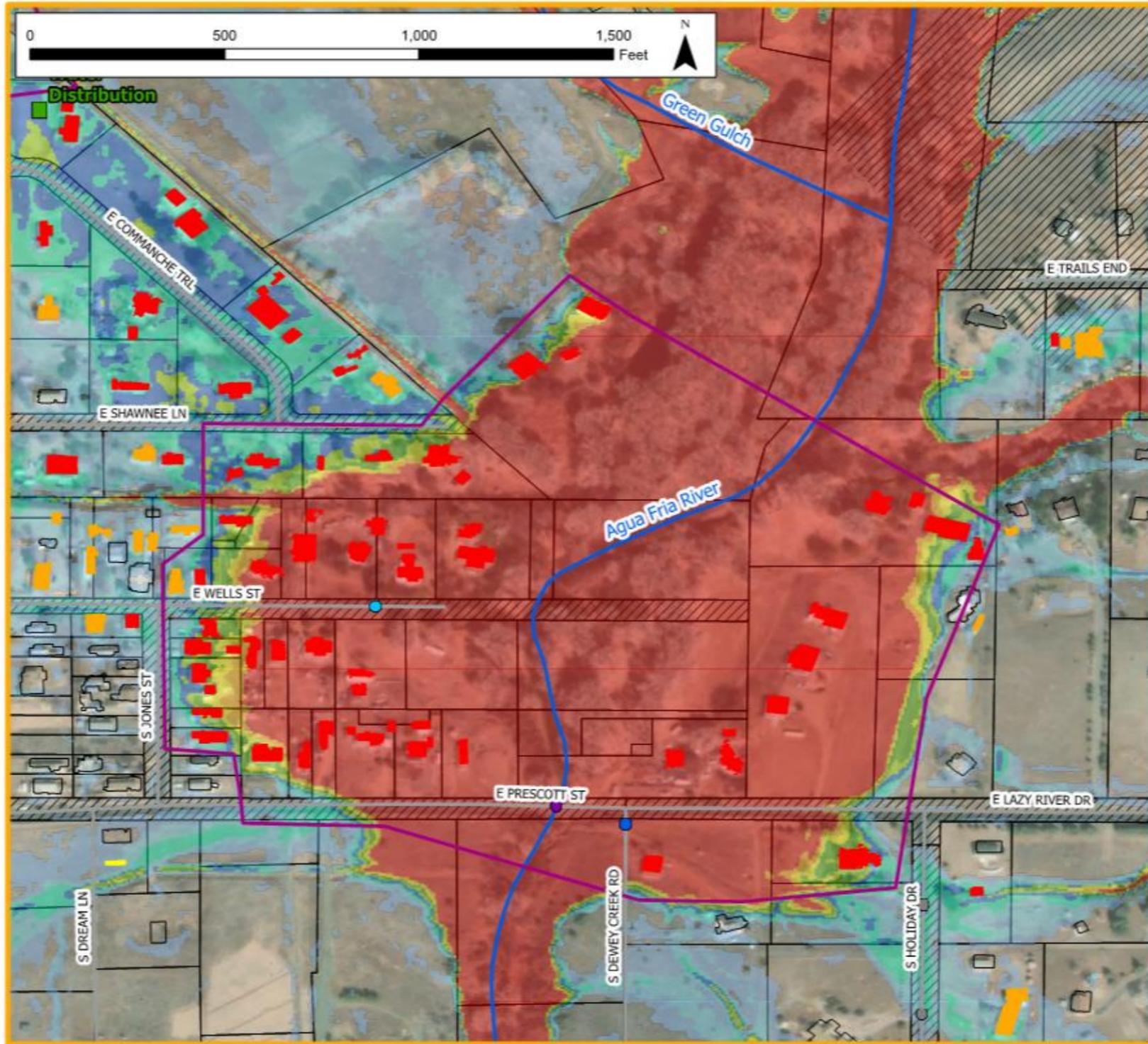
- Extend Mirage Road to State Route 69
- A culvert or ditch along Edds Sands Trail that discharges downstream along the his alignment
- Erosion protection east of Black Canyon Highway
- Low water crossing at the intersection of Edds Sand Trail and Old Black Canyon Highway
- Low water crossing at the intersection of Edds Sand Trail and Bailey Hill Road
- Upstream Basin
- Widen the conveyance channel east of Old Black Canyon Highway

STRUCTURE HAZARD RISK

Storm Event (year)	Number of Structures with Low Risk	Number of Structures with Med Risk	Number of Structures with High Risk
2-year	0	1	0
10-year	0	1	2
100-year	4	3	4

ROAD CROSSING HAZARD RISK

Storm Event (year)	Number of Structures with Low Risk	Number of Structures with Med Risk	Number of Structures with High Risk
Crossing	0	1	1



LOCATION DESCRIPTION

Location: This area includes the low water crossing on Prescott Street at the Agua Fria River and the surrounding residential areas along the river.

Problem Statement: This area was identified by the Town and County prior to starting the project. During the public meeting, it was noted that the Prescott Street crossing had failed and was closed. The major concern is that the flow depth and flooding of the Agua Fria River at Prescott Street completely cuts off access to the roads east of the Agua Fria from SR 69.

Potential Solutions:

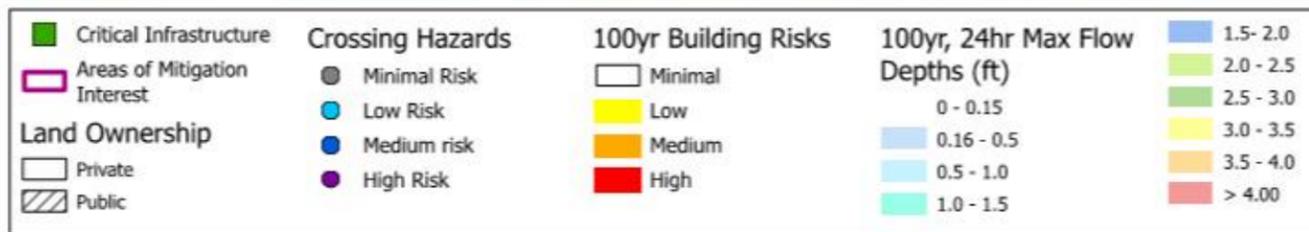
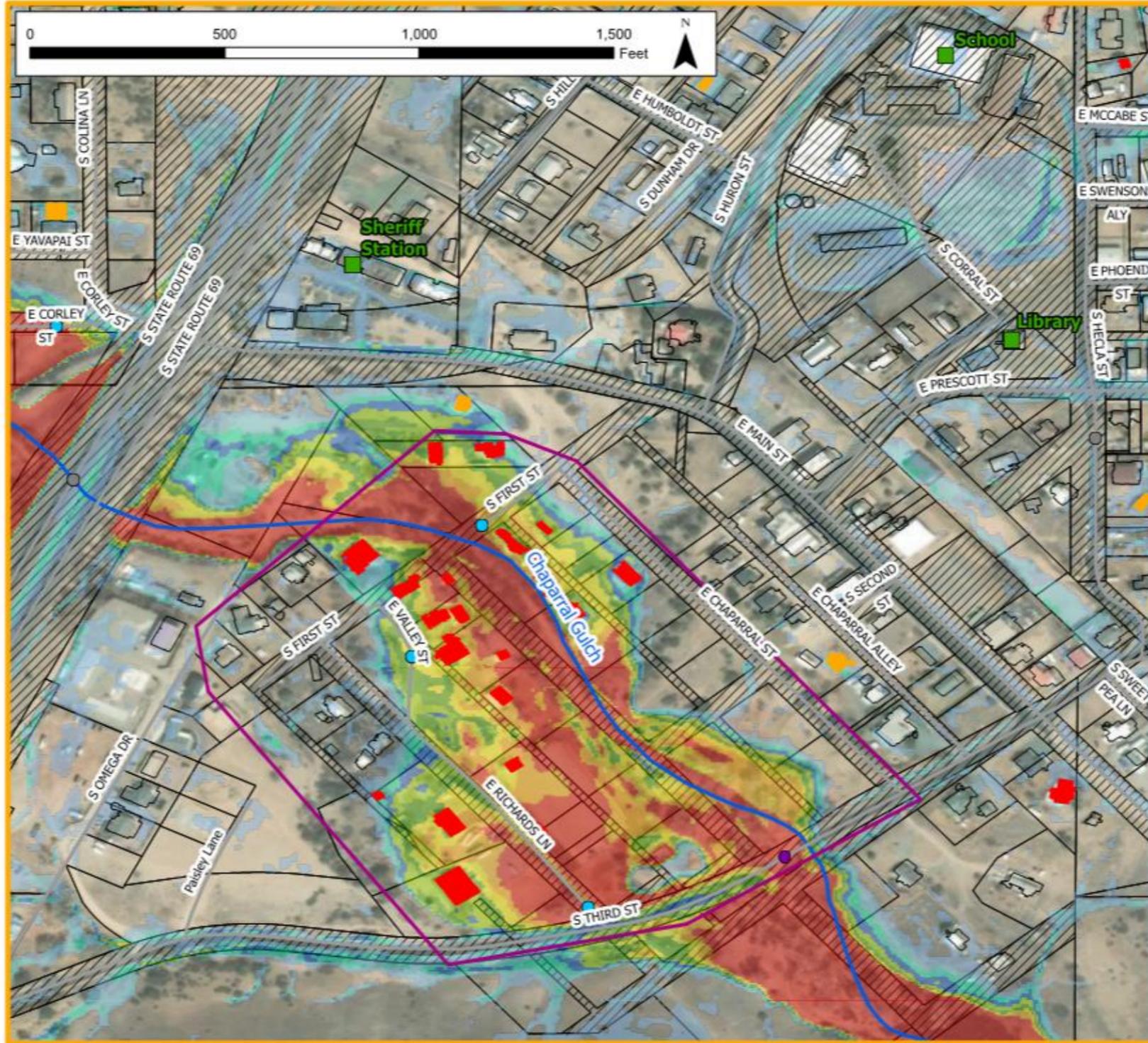
- Erosion protection at center of the project area along the Agua Fria River
- Bridge at Prescott Street and the Agua Fria River
- Improved low water crossing at Prescott Street and the Agua Fria River
- Maintenance of the Agua Fria River upstream of the Prescott Street crossing
- Flood Alert Gage and Community Warning System

STRUCTURE HAZARD RISK

Storm Event (year)	Number of Structures with Low Risk	Number of Structures with Med Risk	Number of Structures with High Risk
2-year	0	1	1
10-year	0	7	8
100-year	0	1	52

ROAD CROSSING HAZARD RISK

Storm Event (year)	Number of Structures with Low Risk	Number of Structures with Med Risk	Number of Structures with High Risk
Crossing	1	1	1



LOCATION DESCRIPTION

Location: This area includes Chaparral Gulch southwest of Main Street. The project area is bounded by Chaparral Street to the east, Third Street to the south, First Street, Valley Street, and Richards Lane to the west.

Problem Statement: This area was identified as a building hazard zone for the 100-year storm based on modeling results.

Potential Solutions:

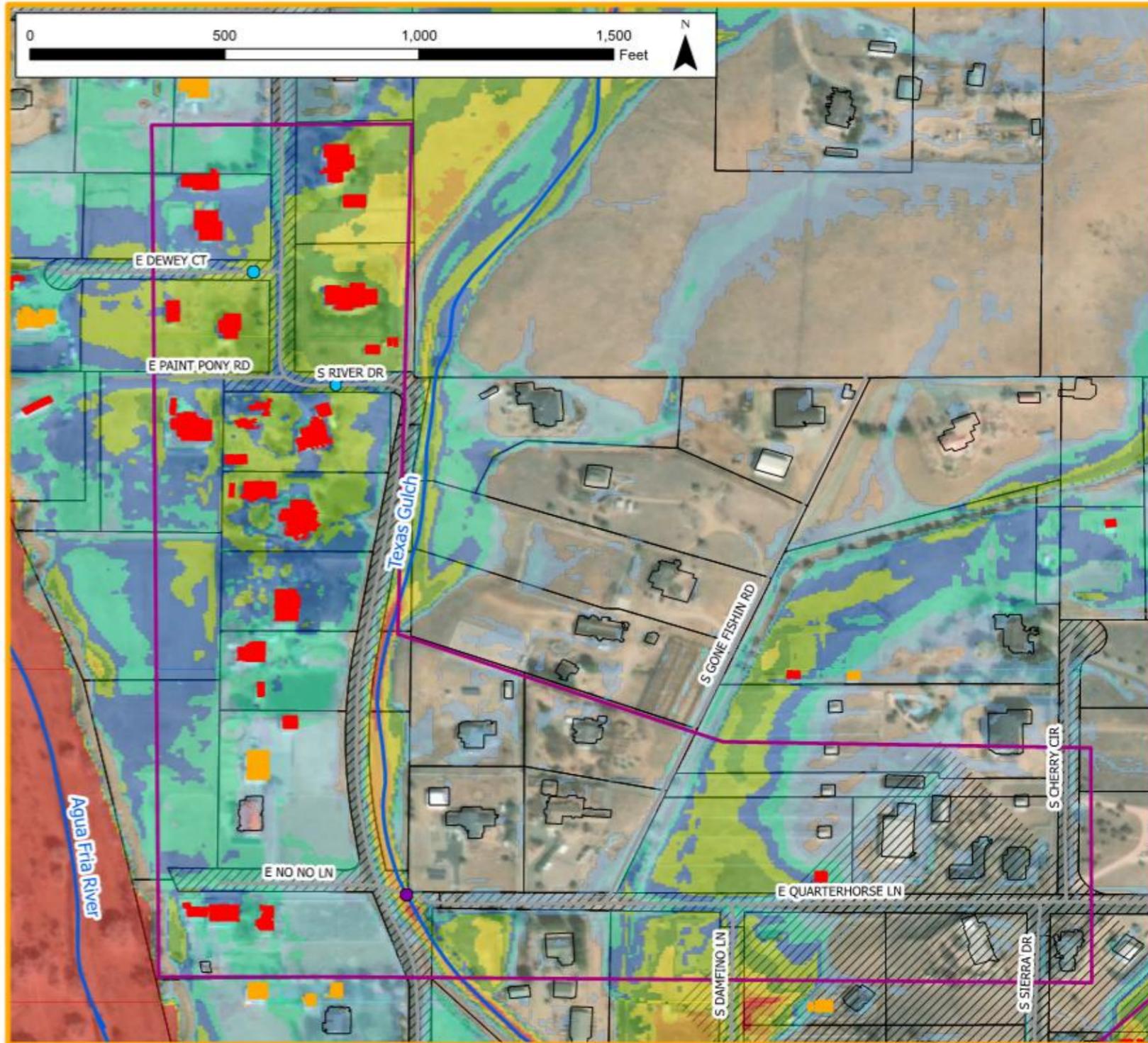
- Maintenance of the wash on both public and private property
- Improved conveyance at low water crossing along Third Street
- Conveyance improvements along Chaparral Gulch
- Flood Alert Gage and Community Warning System

STRUCTURE HAZARD RISK

Storm Event (year)	Number of Structures with Low Risk	Number of Structures with Med Risk	Number of Structures with High Risk
2-year	0	1	1
10-year	0	2	12
100-year	0	0	20

ROAD CROSSING HAZARD RISK

Storm Event (year)	Number of Structures with Low Risk	Number of Structures with Med Risk	Number of Structures with High Risk
Crossing	3	0	1



LOCATION DESCRIPTION

Location: This area includes Texas Gulch and the low water crossing at Quarterhorse Lane. It extends from the intersection of River Drive and Dewey Court in the north to the intersection of Quarterhorse Lane and No No Lane in the south and east from the intersection with River Drive along Quarterhorse Lane to where it intersects with Sierra Drive and Cherry Circle.

Problem Statement: This area was identified prior to starting the project by the Town and County. During the public meeting flow at the top of the embankment for Texas Gulch was noted. The low water crossing at the intersection of River Drive and Quarterhorse Lane was noted as a concern by the County and Town. Flooding of the S-curve of the road along River Drive has been observed to prevent vehicles making it north to SR 169.

Potential Solutions:

- Channel improvements along Texas Gulch to contain discharge
- Maintenance of the Texas Gulch berm and channel
- Improved low water crossing at the intersection of River Drive and Quarterhorse Lane
- Flood Alert Gage and Community Warning System

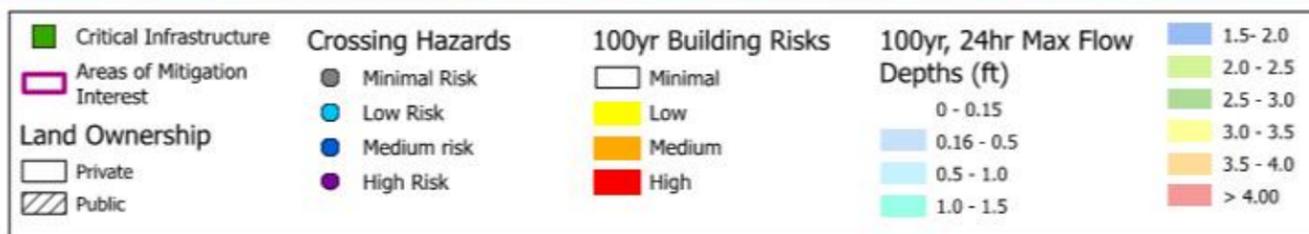
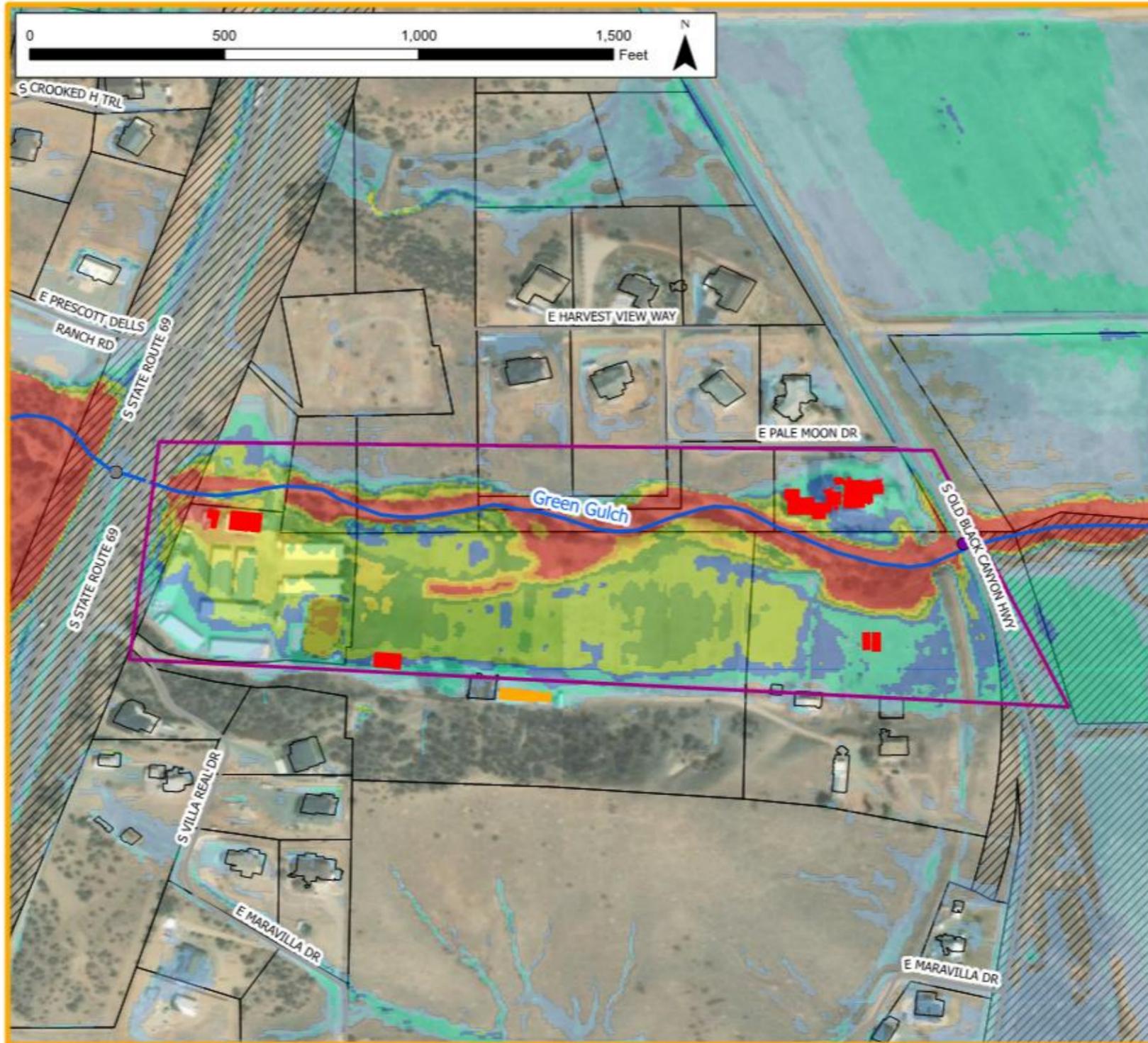
STRUCTURE HAZARD RISK

Storm Event (year)	Number of Structures with Low Risk	Number of Structures with Med Risk	Number of Structures with High Risk
2-year	0	2	0
10-year	0	6	10
100-year	0	1	26

ROAD CROSSING HAZARD RISK

Storm Event (year)	Number of Structures with Low Risk	Number of Structures with Med Risk	Number of Structures with High Risk
Crossing	2	0	1

Critical Infrastructure	Crossing Hazards	100yr Building Risks	100yr, 24hr Max Flow Depths (ft)	1.5 - 2.0
Areas of Mitigation Interest	Minimal Risk	Minimal	0 - 0.15	2.0 - 2.5
Land Ownership	Low Risk	Low	0.16 - 0.5	2.5 - 3.0
Private	Medium risk	Medium	0.5 - 1.0	3.0 - 3.5
Public	High Risk	High	1.0 - 1.5	3.5 - 4.0
				> 4.00



LOCATION DESCRIPTION

Location: This area includes Green Gulch downstream of SR 69. It extends from SR 69 in the west to Old Black Canyon Highway in the east. The majority of the project is on private parcels, except for Parcel 402-06-025V, which belongs to the Town.

Problem Statement: This area was identified due to flooding of buildings east of SR 69 during the 100-year storm. The area also includes a bridge over Green Gulch. It was observed that the Old Black Canyon Highway bridge had the potential to overtop during the 100-year storm.

Potential Solutions:

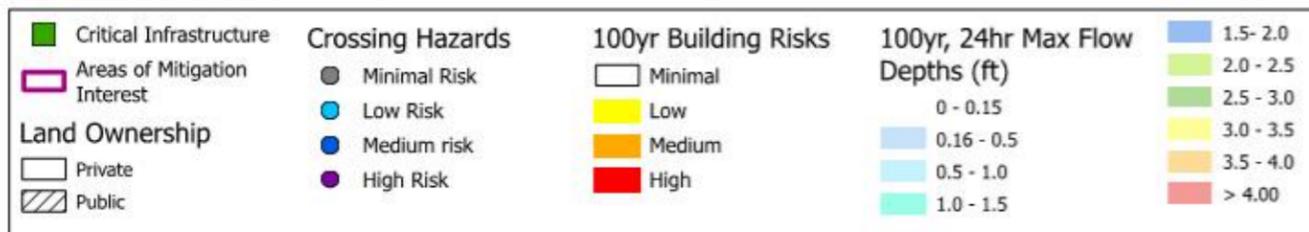
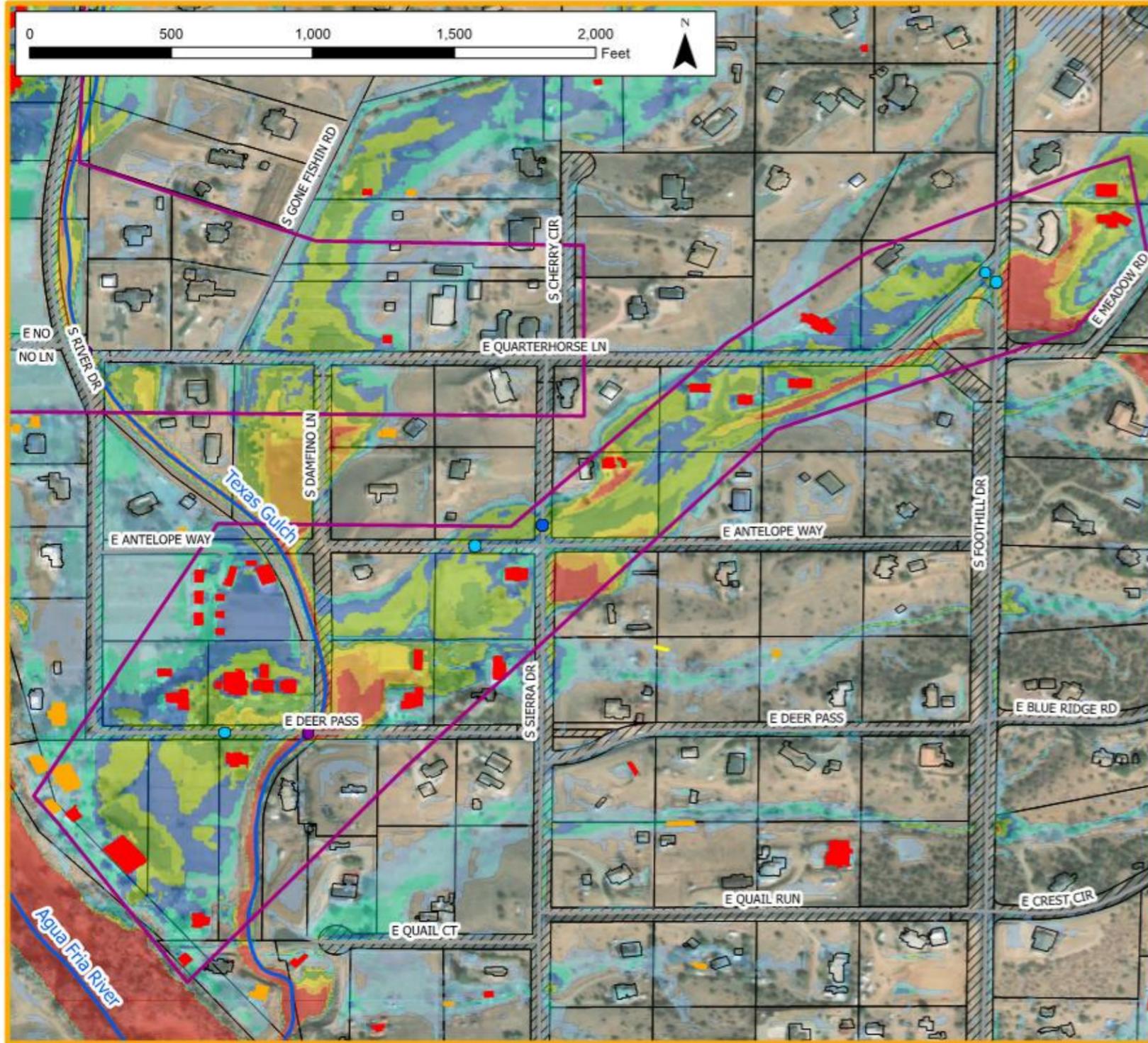
- Improved culverts at the low water crossing east of SR 69 (on private property)
- Maintenance of the wash on both public and private property

STRUCTURE HAZARD RISK

Storm Event (year)	Number of Structures with Low Risk	Number of Structures with Med Risk	Number of Structures with High Risk
2-year	0	1	1
10-year	1	1	2
100-year	0	0	7

ROAD CROSSING HAZARD RISK

Storm Event (year)	Number of Structures with Low Risk	Number of Structures with Med Risk	Number of Structures with High Risk
Crossing	0	0	1



LOCATION DESCRIPTION

Location: This area includes Texas Gulch, an unnamed wash, and a residential area. The area spans from Deer Pass in the southwest to the intersection of Quarterhorse Lane and Foothills Drive in the east. It also includes a portion of Sierra Drive, Antelope Way, and Damfino Lane.

Problem Statement: This area was identified due to 100-year structure inundation and low water crossing hazards. The unnamed wash is not channelized, and the shallow wide flow impacts a number of structures.

Potential Solutions:

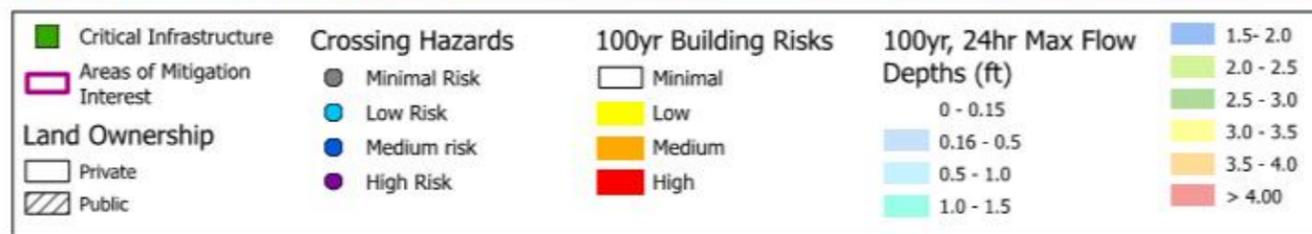
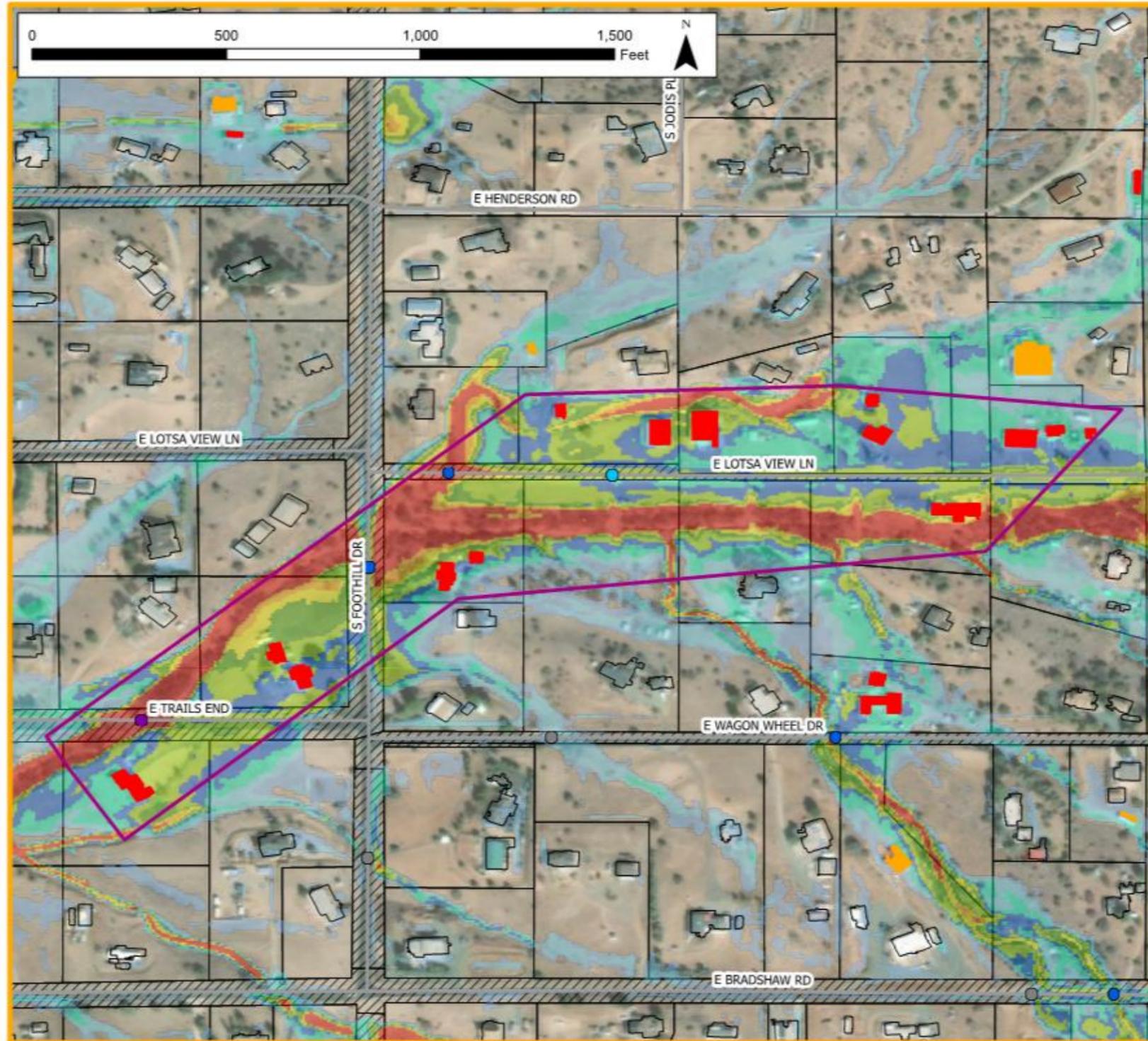
- Maintenance of Texas Gulch
- Improvements to the low water crossing along Deer Pass
- Channelization of the unnamed wash
- Flood Alert Gage and Community Warning System
- Public Education and Outreach
- Roadside swales discharging to Texas Gulch in the Right-of-way

STRUCTURE HAZARD RISK

Storm Event (year)	Number of Structures with Low Risk	Number of Structures with Med Risk	Number of Structures with High Risk
2-year	0	1	0
10-year	0	10	11
100-year	0	2	33

ROAD CROSSING HAZARD RISK

Storm Event (year)	Number of Structures with Low Risk	Number of Structures with Med Risk	Number of Structures with High Risk
Crossing	4	1	1



LOCATION DESCRIPTION

Location: This area includes Lotsa View Lane, Foothill Drive, and Trails End. The area also includes the unnamed wash running alongside these roads and the culverts under Foothills Drive.

Problem Statement: This area was identified due to 100-year structure inundation. There are also several low water crossings with hazardous conditions during the 100-year storm.

Potential Solutions:

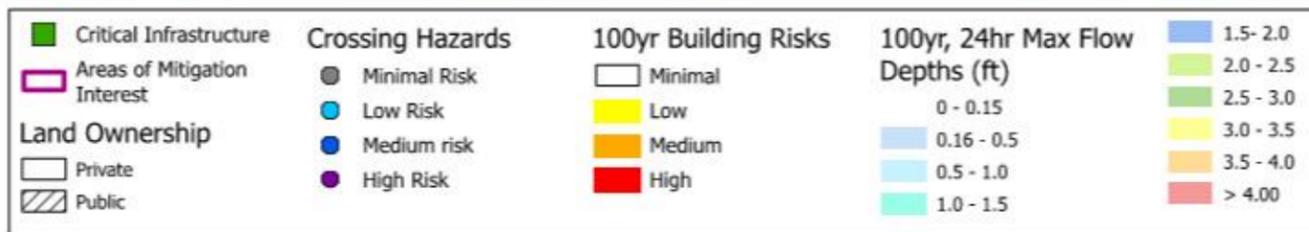
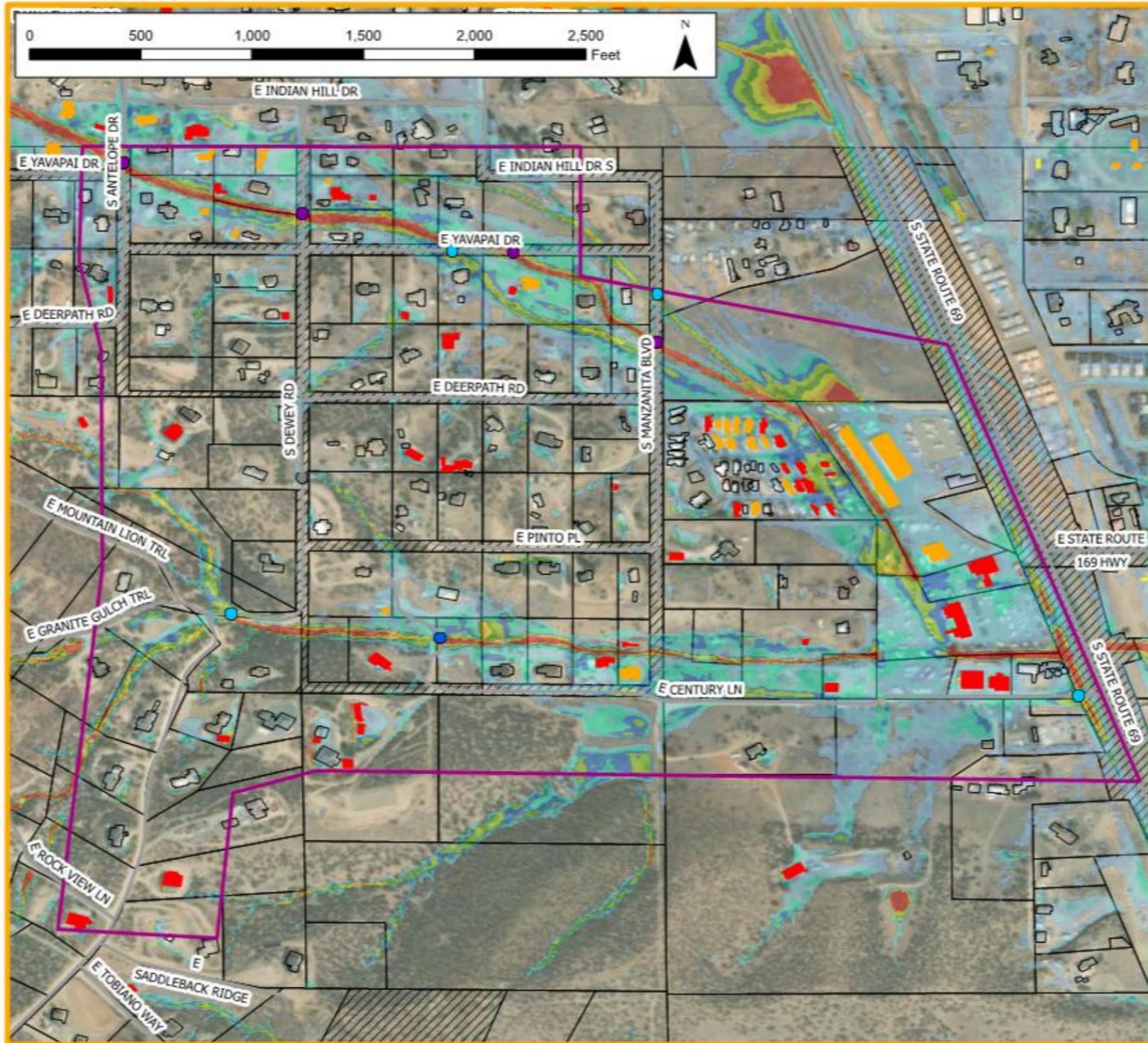
- Maintenance of the existing culverts
- Low water crossing along Trails End
- Culvert improvements at Foothills Drive to reduce upstream ponding
- Public Education and Outreach

STRUCTURE HAZARD RISK

Storm Event (year)	Number of Structures with Low Risk	Number of Structures with Med Risk	Number of Structures with High Risk
2-year	0	0	0
10-year	0	5	1
100-year	0	0	14

ROAD CROSSING HAZARD RISK

Storm Event (year)	Number of Structures with Low Risk	Number of Structures with Med Risk	Number of Structures with High Risk
Crossing	1	2	1



LOCATION DESCRIPTION

Location: This area includes the residential and commercial area west of SR 69 and two unnamed existing washes. The area is bounded by Dewey Road west of SR 69 and extends from the intersection of Dewey Road and Rock View Lane in the south to the intersection of Antelope Drive and Yavapai Drive in the north. The area also contains the region between SR 69 and Dewey Road.

Problem Statement: This area was identified during the hazard identification meeting with the County. Dewey Road was noted as one of the major access roads to the developments located west of SR 69, with several road crossings impacted by the 2-year storm. There are also structures impacted by discharge breaking out of the unnamed washes.

Potential Solutions:

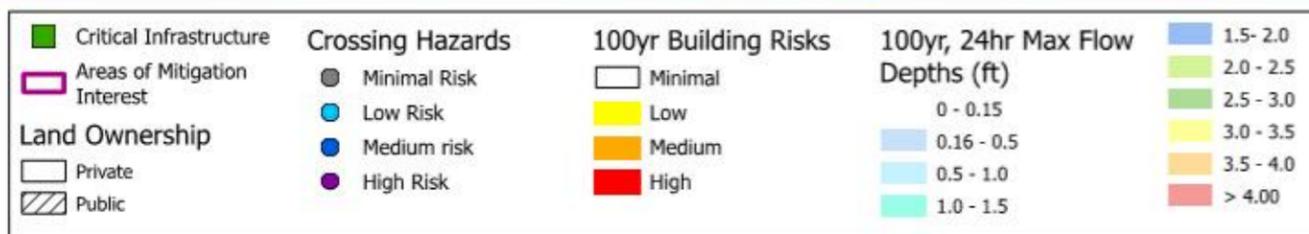
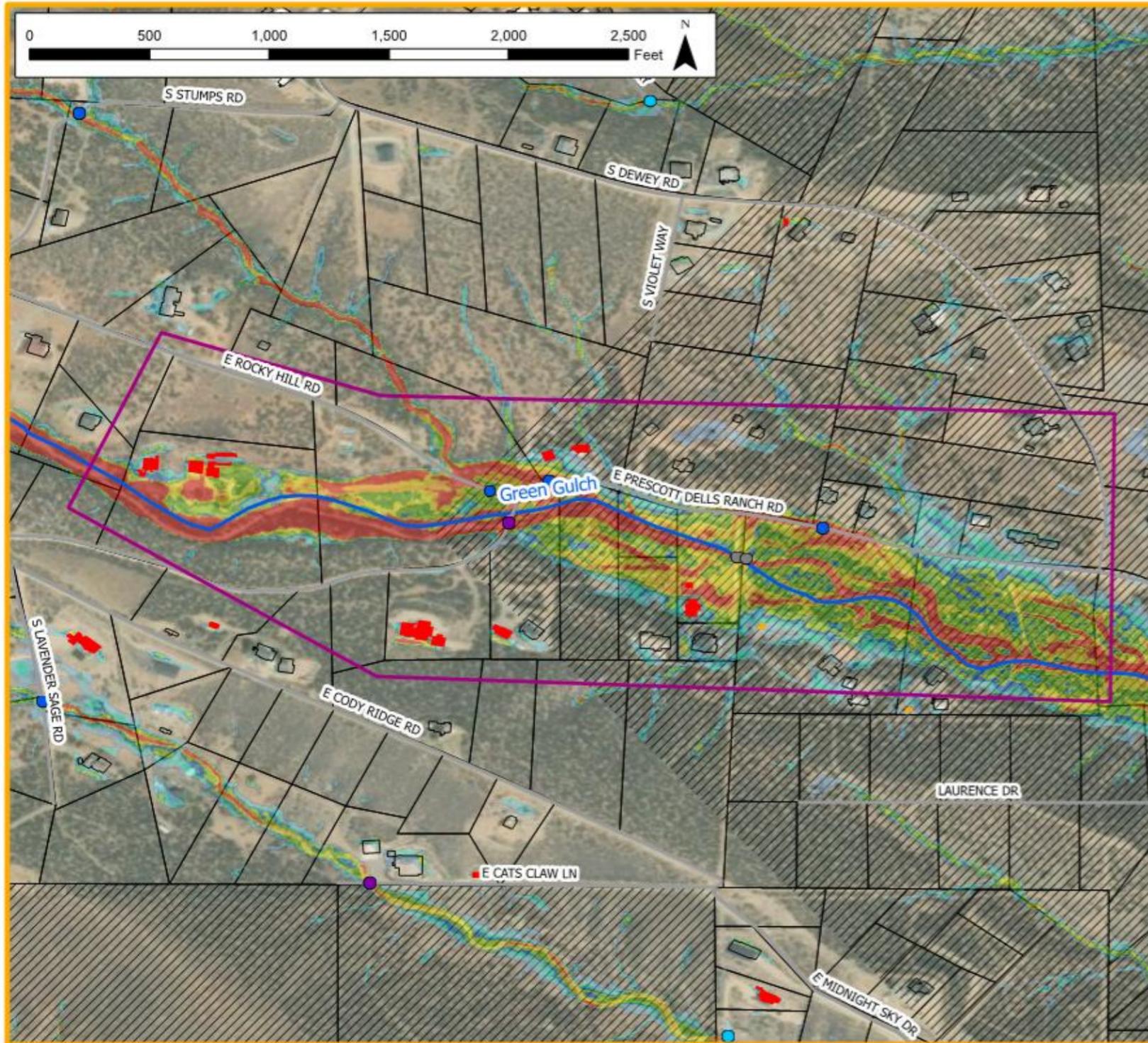
- Maintenance of the unnamed washes
- Adding an additional road connection to SR 69, potentially extending Deerpath Road
- Roadway improvements and culverts at Dewey Road and other locations to improve access
- Flood Alert Gage and Community Warning System
- Public Education and Outreach
- Improve channel conveyance

STRUCTURE HAZARD RISK

Storm Event (year)	Number of Structures with Low Risk	Number of Structures with Med Risk	Number of Structures with High Risk
2-year	0	2	10
10-year	0	6	12
100-year	0	21	42

ROAD CROSSING HAZARD RISK

Storm Event (year)	Number of Structures with Low Risk	Number of Structures with Med Risk	Number of Structures with High Risk
Crossing	4	1	4



LOCATION DESCRIPTION

Location: This area includes Green Gulch and Prescott Dells Ranch Road and its intersection with Rocky Hill Road. The area extends along Prescott Dells Ranch Road from the intersection with Dewey Road in the east, past its intersection with Rocky Hill Road, for a length of approximately 1,300 feet.

Problem Statement: This area was identified during the hazard identification meeting with the County. It was noted that Prescott Dells Ranch Road is one of the only access roads to Blue Hills Farms, located west of the study area. There is a low water crossing at Prescott Dells Ranch Road that experiences hazardous conditions during the 2-year storm event.

Potential Solutions:

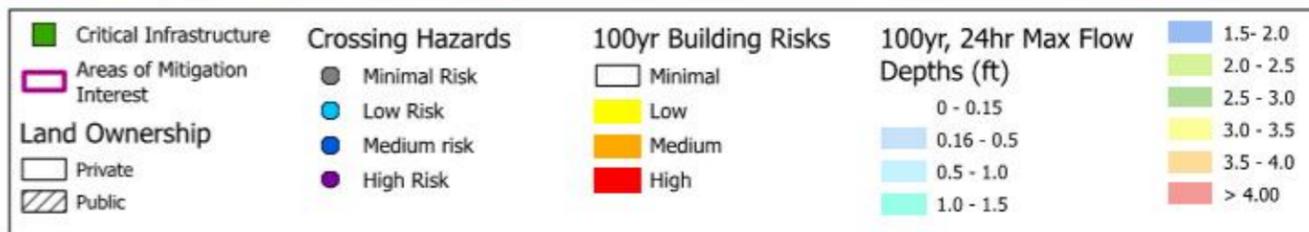
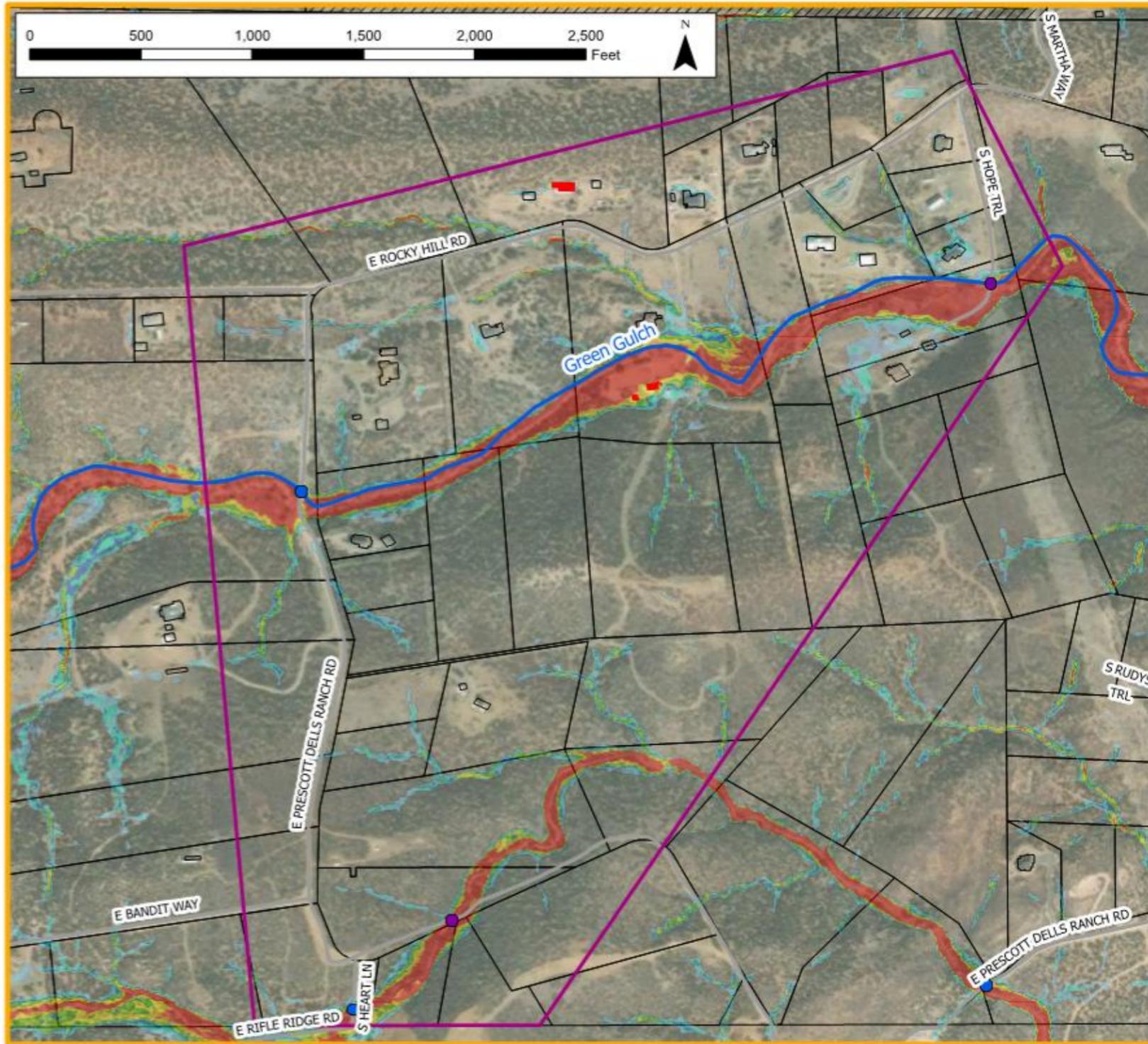
- Evaluation of alternative routes
- Roadway and culvert improvements
- Low water crossing south of the intersection of Prescott Dells Ranch Road and Rocky Hill Road
- Flood Alert Gage and Community Warning System

STRUCTURE HAZARD RISK

Storm Event (year)	Number of Structures with Low Risk	Number of Structures with Med Risk	Number of Structures with High Risk
2-year	0	2	3
10-year	0	1	5
100-year	0	1	11

ROAD CROSSING HAZARD RISK

Storm Event (year)	Number of Structures with Low Risk	Number of Structures with Med Risk	Number of Structures with High Risk
Crossing	0	3	1



LOCATION DESCRIPTION

Location: This area includes Green Gulch and Prescott Dells Ranch Road and its intersections with Heart Lane and Bandit Way. The project area extends along Prescott Dells Ranch Road from the intersection with Rocky Hill Road in the north to where Rocky Hill Road intersects with Hope Trail in the east.

Problem Statement: This area was identified during the hazard identification meeting with the County. It was noted that Prescott Dells Ranch Road is one of the only access roads to Blue Hills Farms, located west of the study area. Prescott Dells Ranch Road and Hope Trail experience flooding at crossings with Green Gulch.

Potential Solutions:

- Maintenance of Green Gulch
- Low water crossing improvements
- Evaluation of alternative routes
- Flood Alert Gage and Community Warning System
- Public Education and Outreach

STRUCTURE HAZARD RISK

Storm Event (year)	Number of Structures with Low Risk	Number of Structures with Med Risk	Number of Structures with High Risk
2-year	0	0	1
10-year	0	0	2
100-year	0	0	3

ROAD CROSSING HAZARD RISK

Storm Event (year)	Number of Structures with Low Risk	Number of Structures with Med Risk	Number of Structures with High Risk
Crossing	0	2	2