

Report on Washoe County Flash Flooding June/July 2013

Washoe County Commissioners
September 24, 2013

Flash Flood Events

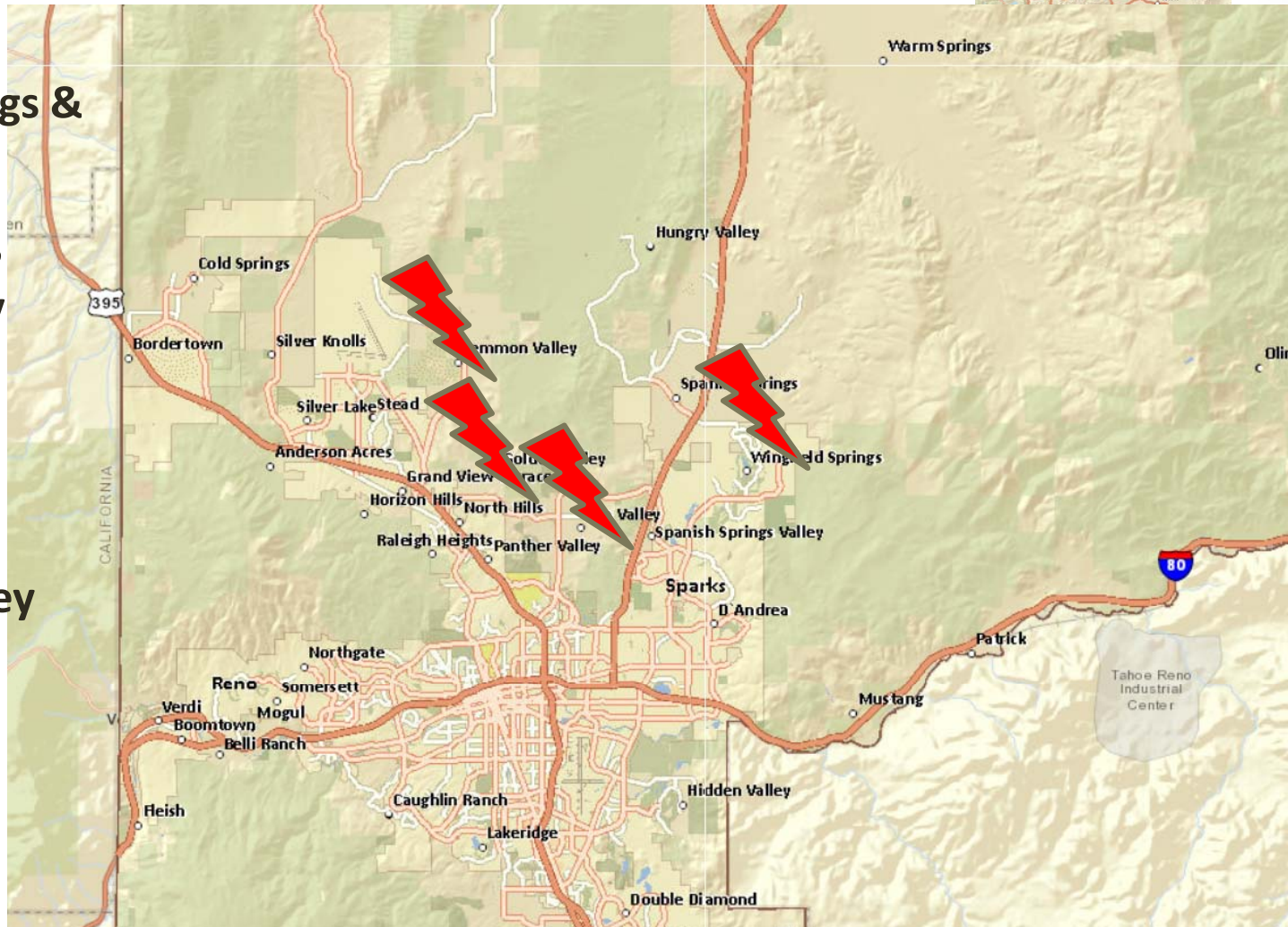


June 10, 2013
Spanish Springs &
Gerlach

June 28, 2013
Golden Valley

July 2, 2013
Sun Valley

July 4, 2013
Lemmon Valley



Gerlach Flash Flood

June 10, 2013

- (CR 447)



Lemmon Valley July 4, 2013

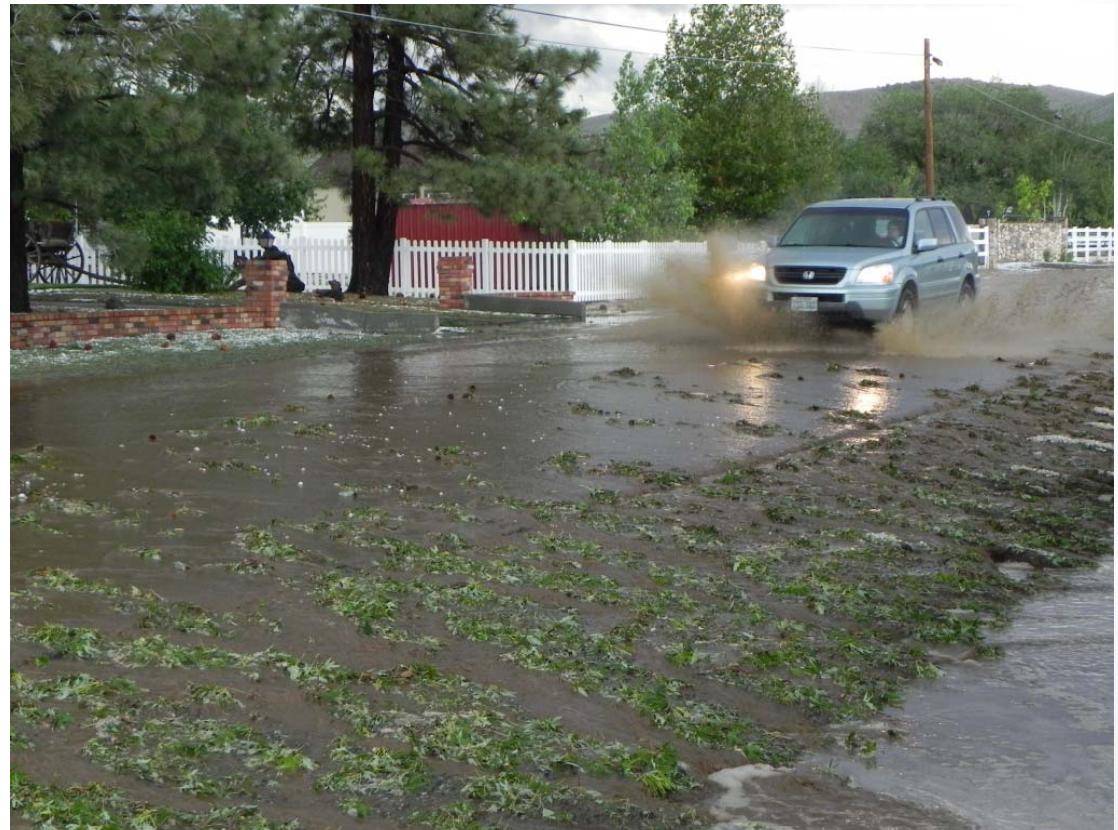
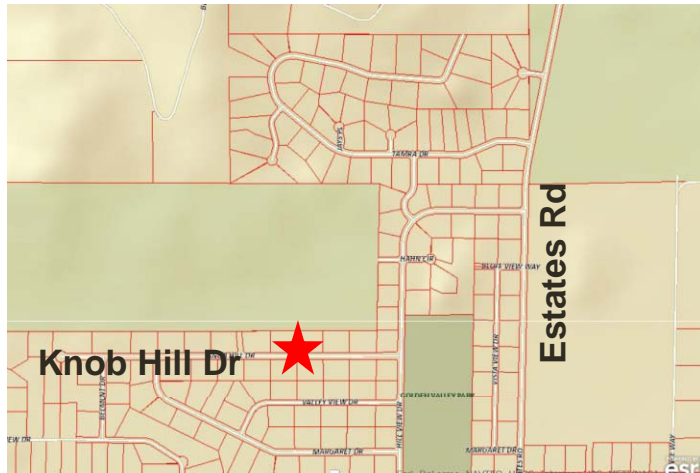
- Matterhorn Blvd.



Golden Valley Flash Flooding

June 28, 2013

- Flooding on Knob Hill Drive and Surrounding Area



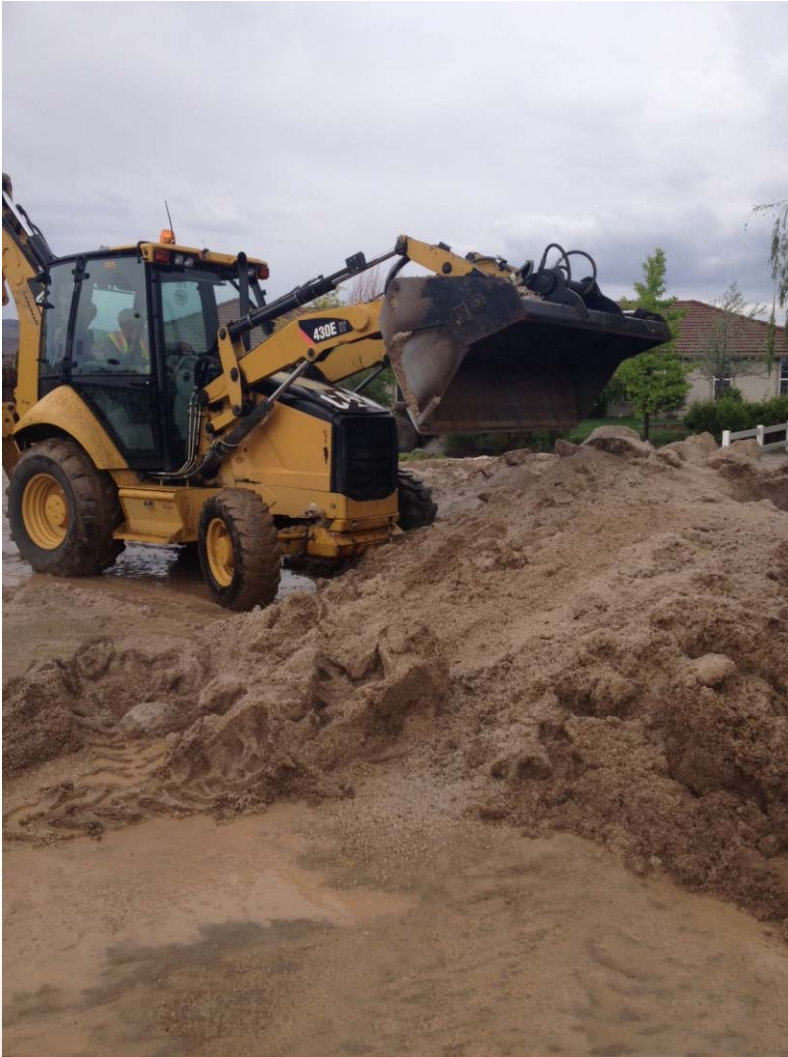
Spanish Springs Flash Flood June 10, 2013

- Bridle Path/Surprise Valley Ranchos



Spanish Springs Flash Flood

- Bridle Path/Surprise Valley Ranchos



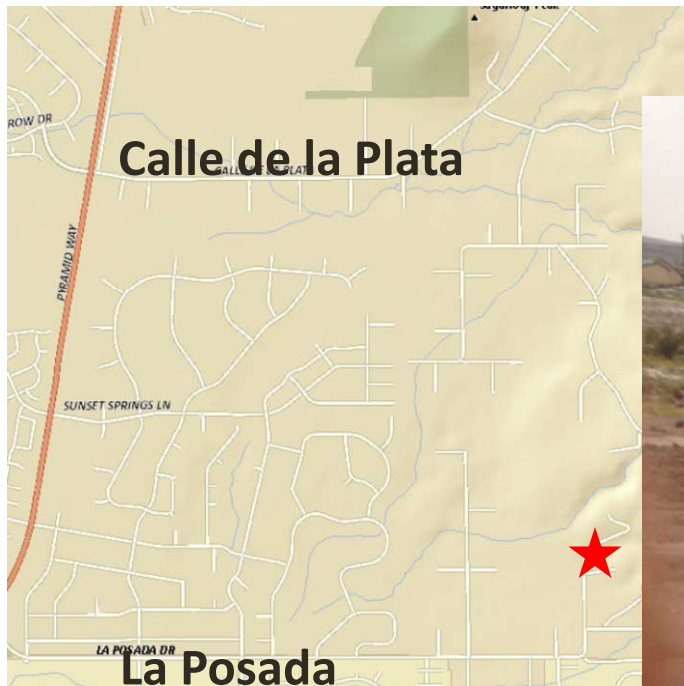
Spanish Springs Flash Flood

- Spanish Springs Valley Ranches (SAD 32), Los Pinos Area



Spanish Springs Flash Flood

- Spanish Springs Valley Ranches (SAD 32), Piedras Drive Area



Piedras cul-de-sac looking south

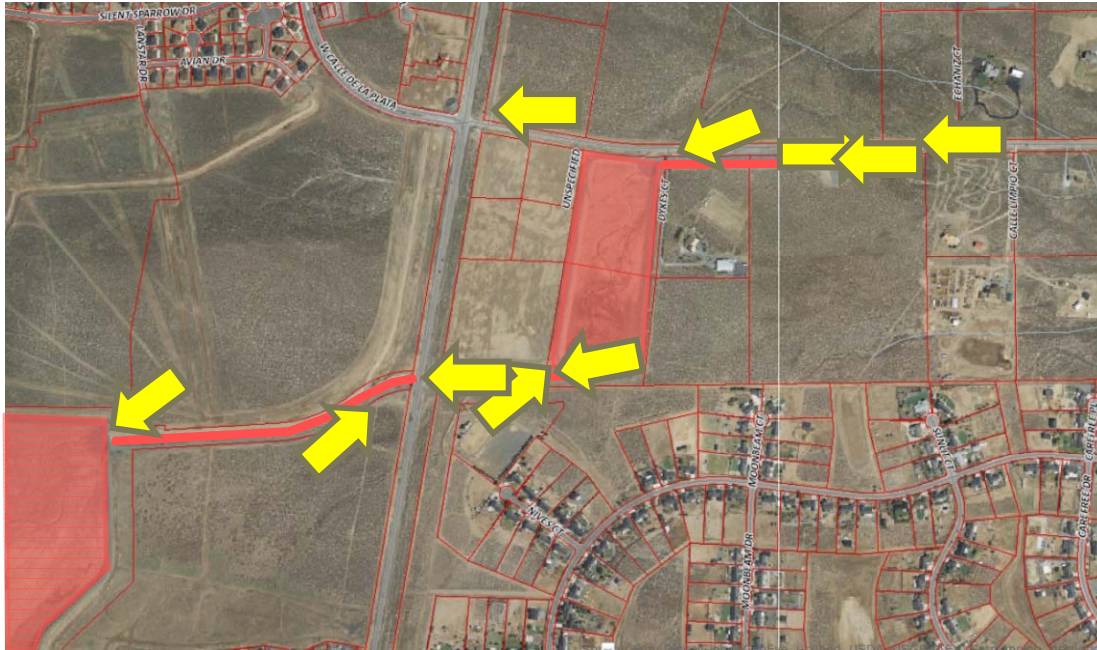
Spanish Springs Flash Flood

- North Spanish Springs Flood Detention Facility
 - Constructed 2007
 - \$14 Million
 - Designed for 100 year, 24Hour Storm



Spanish Springs Flash Flood

- North Spanish Springs Flood Detention Facility



Spanish Springs Flash Flood

June 10, 2013

- Event approached 200 year storm event.
- CSD mobilized field operations crews for emergency flood response and maintenance.
- CSD engineering staff mobilized during event to meet with property owners, observed storm drain system performance during event.

Flash Flooding

After Flood Review & Summary

- Review Comments
 - Stormwater systems not designed to convey all possible storm event flows.
 - High intensity rainfall events will likely result in localized flooding.
 - Areas with highly erodible sediments and debris have traditionally seen greater impacts.
- Evaluation of Washoe County maintained storm water conveyance systems.
- In general stormwater conveyance systems performed as expected given the high intensity storm event and large sediment and debris loading.

Flash Flooding

After Flood Review & Summary

- Staff preparing educational material to acquaint property owners of flood risks/flood mitigation.
- Educational material will include drainage maintenance approaches and responsibilities.
- Continuing to assist homeowners with grading permits and questions regarding on-site drainage options.
- Working with local home owners associations regarding private drainage facility maintenance needs and responsibilities.