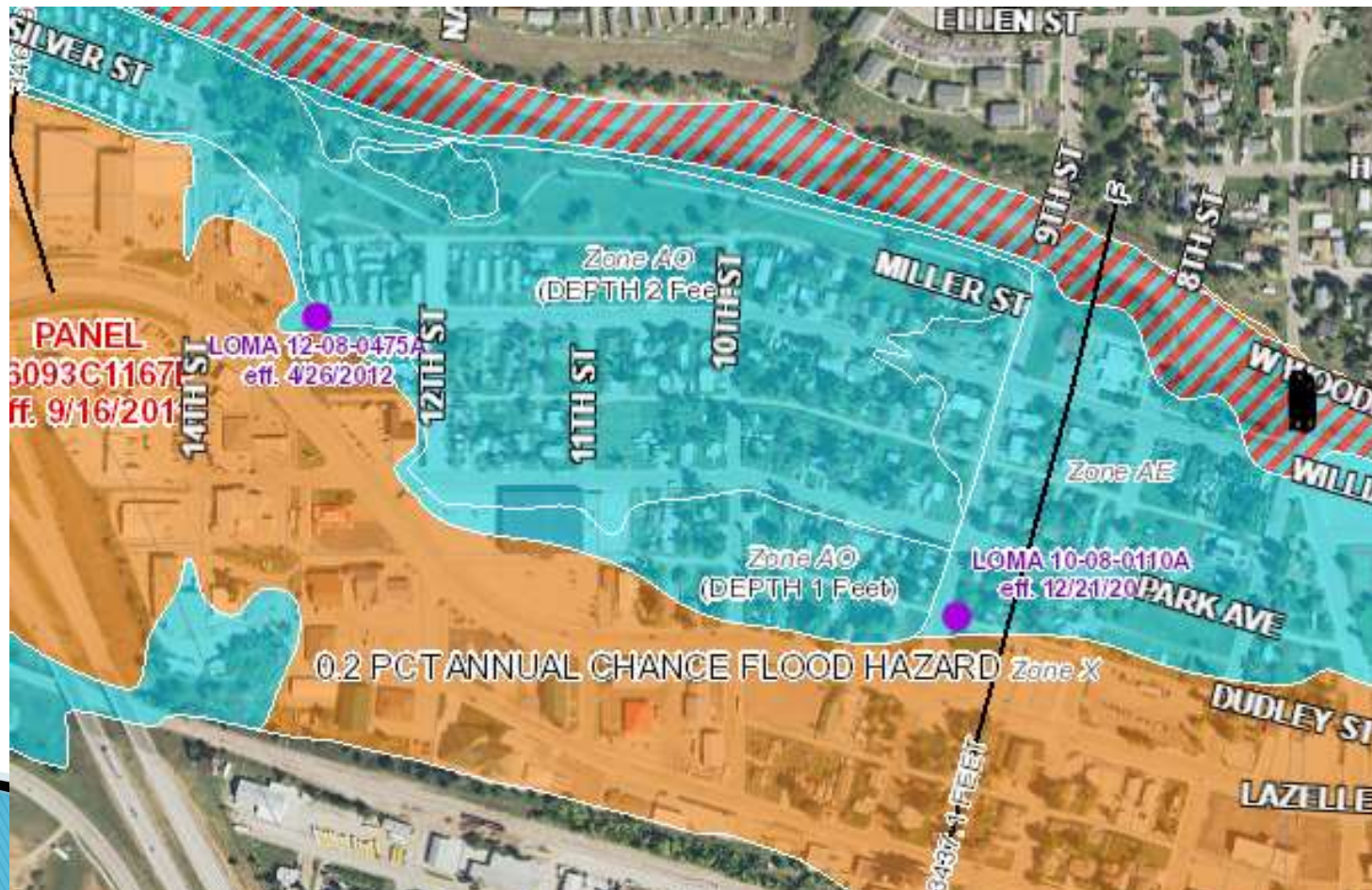


## 7<sup>th</sup> Street Bear Butte Crossing Jan 4, 2021 update



- ▶ The boxes that were placed in 2010 timeframe were not included in the floodplain model.
- ▶ Second flood in 2019 rendered the 7<sup>th</sup> street crossing impassable.
- ▶ City applied to FEMA to replace structure.
- ▶ FEMA requires Floodway no-rise documentation (no rise in 100 year water surface elevation upstream.)
- ▶ The City hired consultant to work on hydraulic studies.

# Existing FEMA floodplain map



# 7<sup>th</sup> and Woodland Drive



- ▶ City engineer designed 7<sup>th</sup> street and Woodland Drive reconstruction project.
- ▶ This was possible since Woodland Drive was in the original flood plain model.
- ▶ City Council accepted a bid to repair the intersection and rebuild the creek embankments.
- ▶ The existing box was removed.
- ▶ The channel was regraded.
- ▶ The road opened in July of 2020.
- ▶ The bike path was replaced.
- ▶ The City should be reimbursed a portion of the cost from FEMA.




# Creek Armoring



- ▶ A FEMA mitigation grant has allowed the placement of articulated block on the channel slopes.
- ▶ The armoring will protect the sanitary sewer that runs about 10 feet away from the top of the creek bank.
- ▶ FEMA required that a new survey be completed after the block was in place.
- ▶ The survey has been completed.

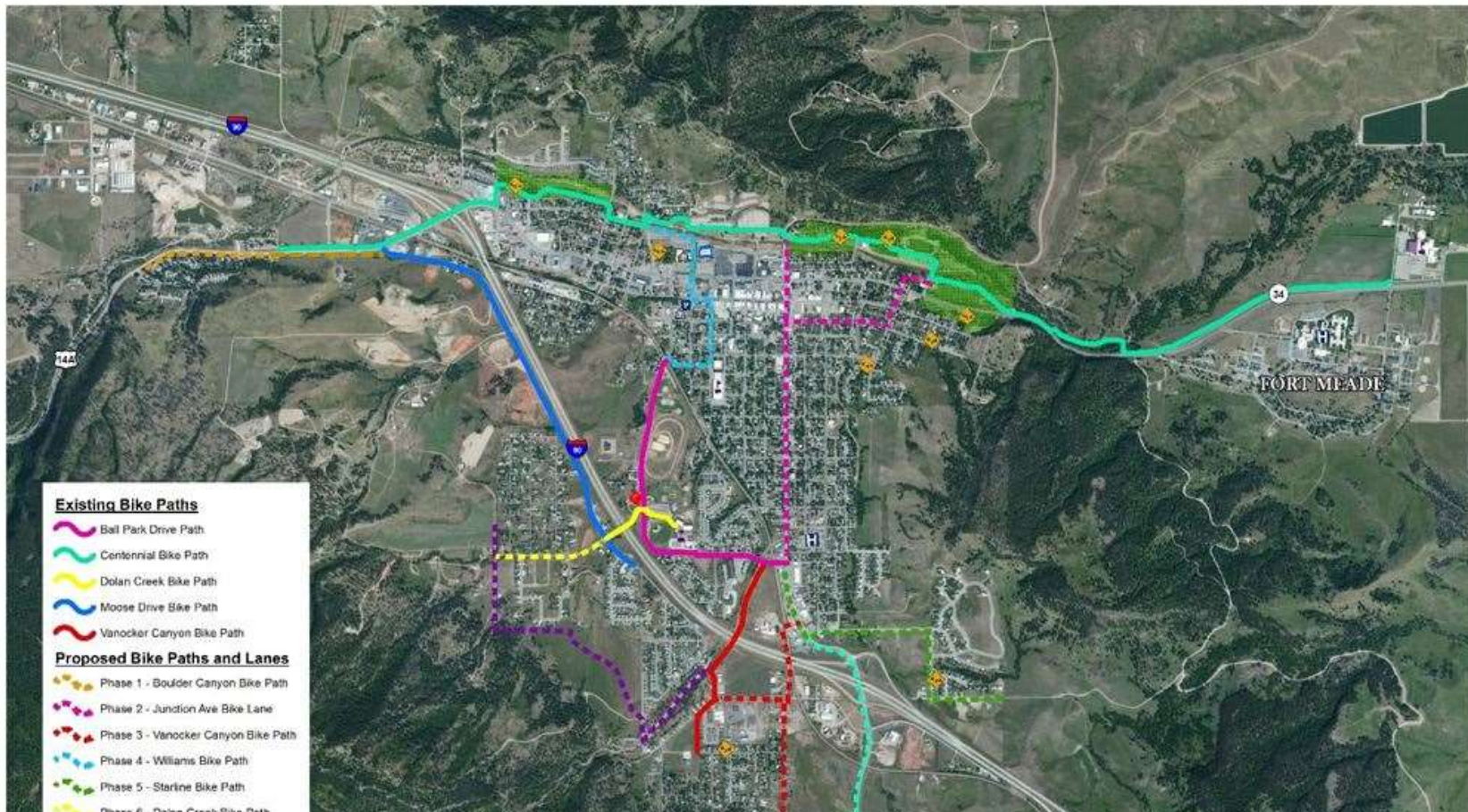
# Curent Status

- ▶ The consultant has developed a scoping plan and estimate for a low water crossing using 3 concrete boxes 18 feet wide each. *(low water crossing means it will flood in a 100 year storm but will be passable most of the time.)*
  - ▶ The plan will meet a no rise condition for the floodway.
  - ▶ City is waiting to hear about mitigation grant status.
- 
- ▶ Total estimated project cost is \$732,575
  - ▶ FEMA may pay 75% or \$549,431
  - ▶ City may pay 25% or \$183,144
  - ▶ The consultant is currently working on the design.
- 



# Sturgis Bike Plan

Project will include bike path on east side of structure.



# Temporary Bike Path

courtesy of Kevin Forrester

