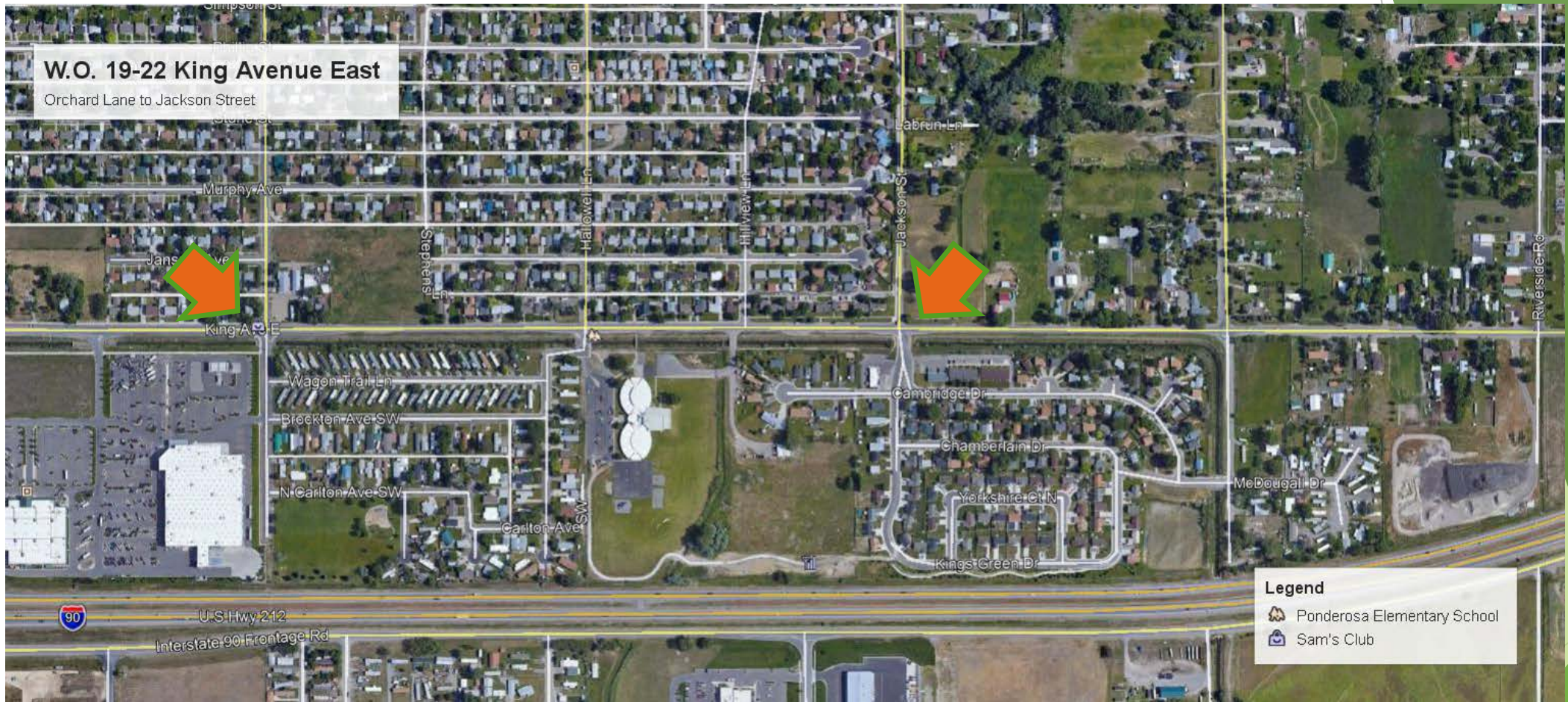


The background features abstract, overlapping green geometric shapes in various shades, including light lime green, medium green, and dark forest green. These shapes are primarily located on the left and right sides of the page, framing the central white area where the text is placed.

# King Avenue East Reconstruction Project

Orchard Lane to Jackson Street  
A South Billings Urban Renewal District Project



Project Limits: Orchard Lane to Jackson Street

# Arterial Street Section Determination

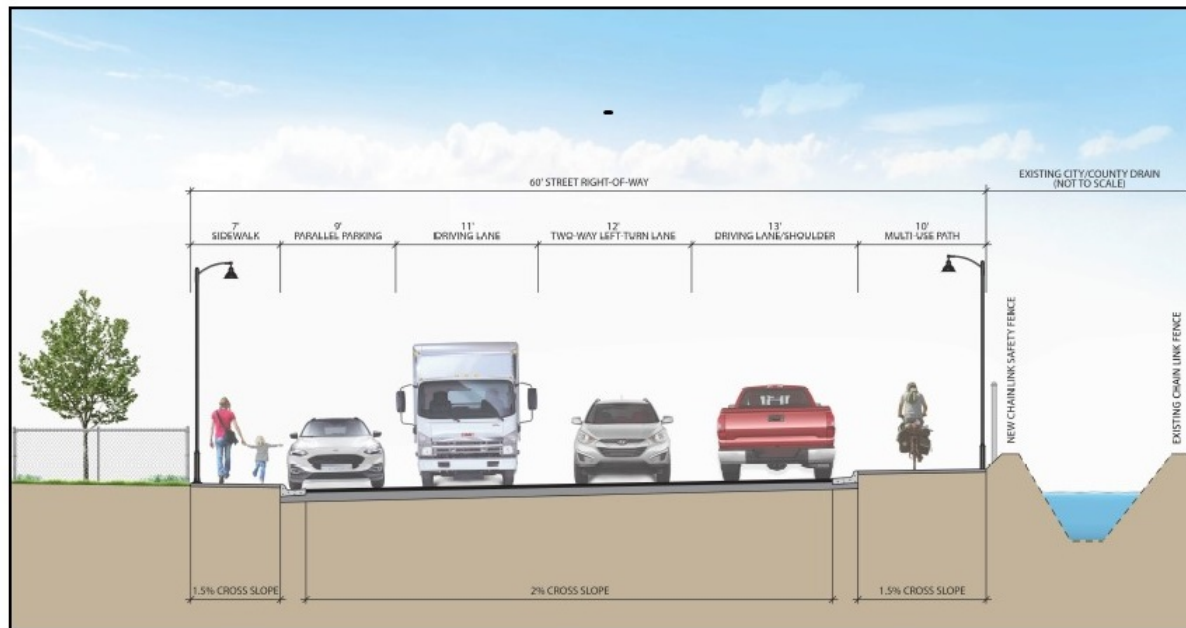
- ▶ Start With Facts - Limited ROW and Funding
- ▶ The Basic Components
  - ▶ Travel Lanes
  - ▶ Safety - TWLTL, turn lanes, access control, street lights
  - ▶ Multimodal users - sidewalk, path, bike lane, bus users
  - ▶ Parking - provided for local roads; very limited for arterials and collectors
  - ▶ Intersections

Ideal ROW width is 80-feet. This project has 60-feet of ROW.

# King Avenue East Proposed Section

- ▶ Travel Lanes
  - ▶ 6,760 vpd - current      10,000 vpd - 20 year projection
  - ▶ Two needed (one east bound, one west bound)
- ▶ Safety
  - ▶ TWLTL throughout or intersection turn lanes at Orchard, Hallowell and Jackson
  - ▶ Street lights throughout
- ▶ Multimodal users
  - ▶ Sidewalk on north - 5 foot boulevard walk and 7 foot curbside (desired)
  - ▶ Multiuse path on south - 10 foot asphalt (see exhibit)
  - ▶ No on-street bike lanes - high speeds, high traffic volume, limited ROW
  - ▶ MET bus pads will be provided
  - ▶ ADA compliant throughout
- ▶ Parking
  - ▶ On-street parking will be maintained where property is developed
- ▶ Intersections
  - ▶ Existing Signal at Orchard
  - ▶ Flashing beacons at Hallowell and Jackson

# King Avenue East Proposed: Orchard to Hallowell



If conditions preclude desired section, options include:

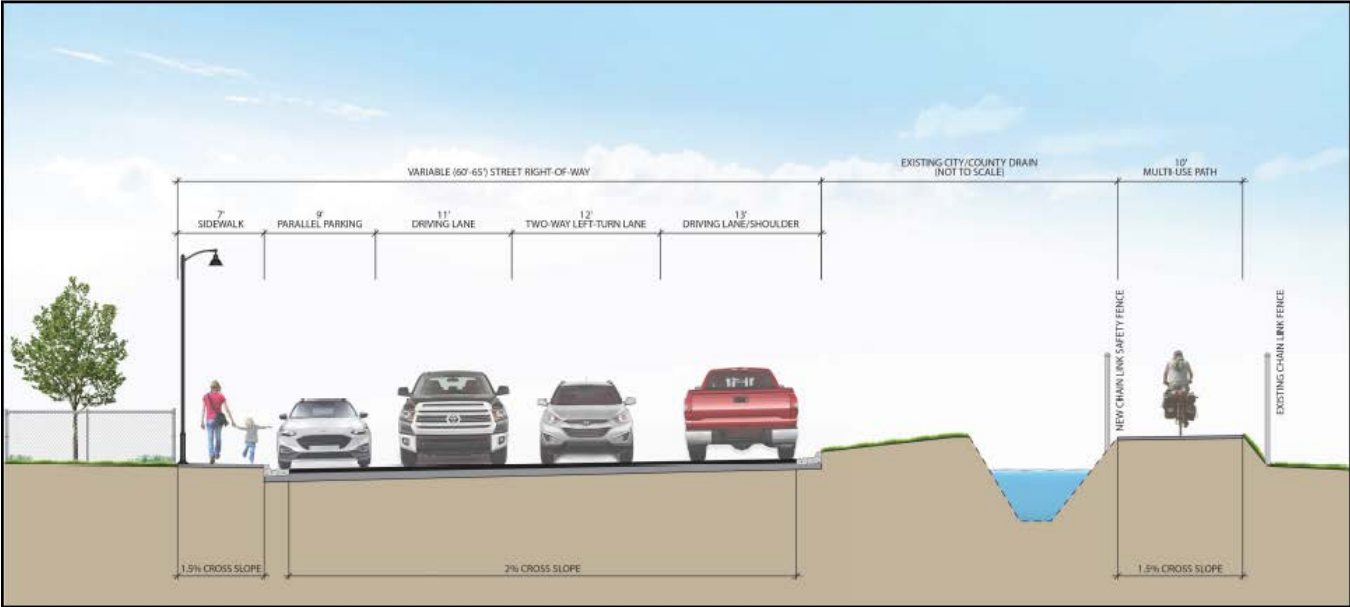
1. Removing parking
2. Removing TWLTL
3. Relocating trail

# Alternate Multi-Use Path: Orchard to Hallowell

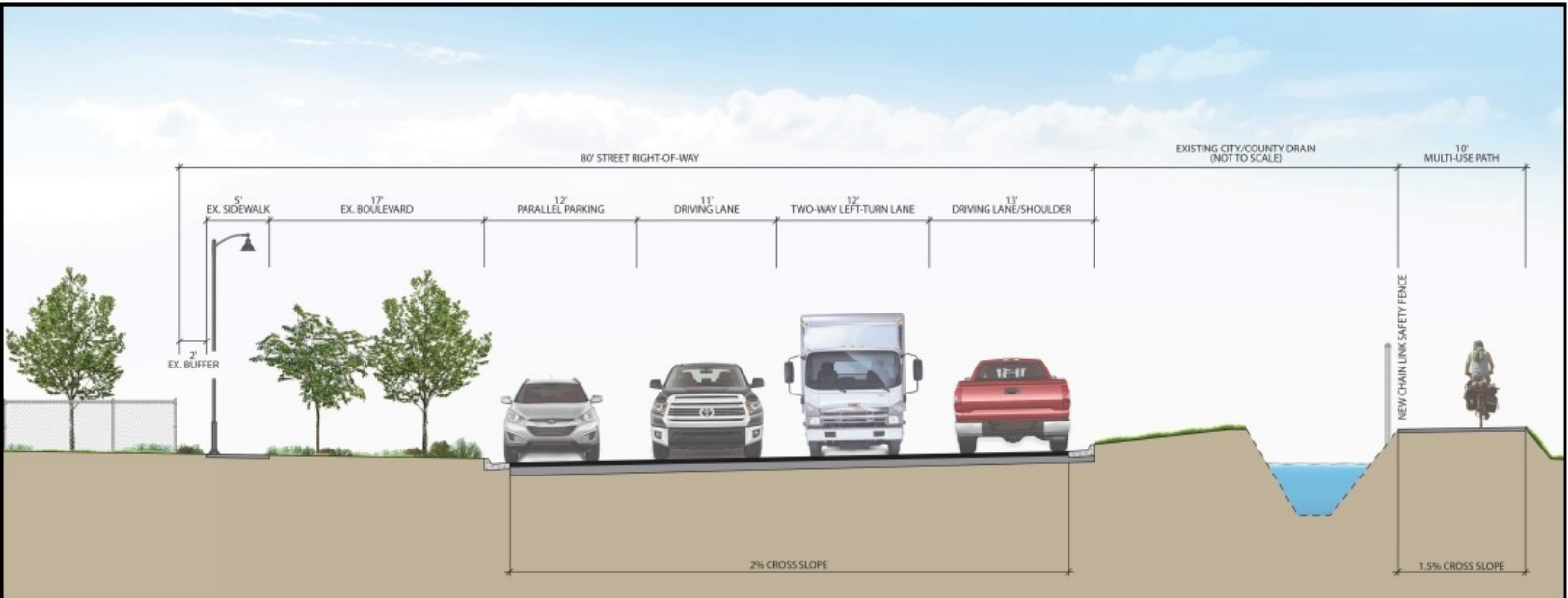
- ▶ Current design is to install trail on north side of City County Drain.
- ▶ Other alternates (blue and red paths) considered pending technical feasibility of current design
- ▶ Turn lanes instead of TWLTL
- ▶ Removal of parking



# King Avenue East Proposed: Hallowell to Hillview



# King Avenue East Proposed: Hillview to Jackson



# Complete Streets Checklist (Existing)

- ▶ Multimodal accommodations on existing?
  - ▶ Very little. Sidewalk on portions of north side only.
- ▶ If no multimodal facilities, how far are existing parallel?
  - ▶ Project will connect to existing facilities at Orchard Lane.
- ▶ Existing challenges that could be addressed?
  - ▶ No sidewalks/trails, no ADA access, no bus stops
- ▶ What trip generators are in the vicinity?
  - ▶ Ponderosa School and commercial development
- ▶ Pedestrian/Bike collisions potential options?
  - ▶ Separated trail and sidewalks
- ▶ Adopted plans?
  - ▶ Billings Area Bikeway and Trail Master Plan (2011), SBURD Master Plan (2012)

# Complete Streets Checklist (Project Scope)

- ▶ Accommodations for multimodal?
  - ▶ Trail, sidewalk, bus pads, ADA corners, rapid flashing beacons
- ▶ Reasons for not including multimodal facilities?
  - ▶ Multimodal facilities are being provided
- ▶ Cost of bike and ped improvements and proportion of overall cost?
  - ▶ Overall \$2.5M (construction only)
  - ▶ Multimodal \$325K (13% of overall project)
    - ▶ Multiuse trail \$120k
    - ▶ Sidewalk \$100k
    - ▶ Bus pads \$5k
    - ▶ ADA corners \$50k
    - ▶ Flashing Beacons \$50k
- ▶ Agency responsible for maintenance of multimodal and how budgeted?
  - ▶ City of Billings Street/Traffic
  - ▶ Street Maintenance Fees

# Project Considerations:

- ▶ Intersections
  - ▶ No new signals or roundabouts
  - ▶ Rapid Flashing signals at Hallowell and Jackson
- ▶ Installation of water main part of project
- ▶ Right of Way
  - ▶ Limited ROW needs anticipated
- ▶ SILMD is a part of this project (winter 2019 creation)
- ▶ Multi-use trail location still being determined
- ▶ South Billings Urban Renewal District Project
- ▶ Construction planned for spring/summer 2020

