Downing Pedestrian Crossings & Speed Study

Findings and Recommendations
Goal of the Study

- To analyze and address speeding concerns between Speer and Louisiana
- To improve pedestrian access / crossings to Washington Park between Virginia and Louisiana.
Existing Conditions

• Downing is classified as a **Signalized Arterial**

• The posted speed limit is **30 mph**

• **4 travel lanes** – Speer to Bayaud and **2 travel lanes** – Bayaud to Louisiana

• The corridor sees an average of **20,000 vehicles per day**
Downing Speeds

General Notes:
- Counts taken Jan. 4th to Jan. 9th
- Saturday to Thursday
- 24hr counts
- Posted speed – 30mph
- Weather – Fair and Dry

ELLSWORTH TO BAYAUD
- Avg. Daily Counts – 16,000 vehicles
- 85th percentile Speed – 35 mph southbound
  37 mph northbound

DAKOTA TO VIRGINIA
- Avg. Daily Counts – 13,000 vehicles
- 85th percentile Speed – 30 mph southbound
  30 mph northbound
Downing Speeds

General Notes:
- Counts taken Jan. 4th to Jan. 9th
- Saturday to Thursday
- 24hr counts
- Posted speed – 30mph
- Weather – Fair and Dry

EXPOSITION TO OHIO
- Avg. Daily Counts – 13,000 vehicles
- 85th percentile Speed – 32 mph southbound
  32 mph northbound

MISSISSIPPI TO ARIZONA
- Avg. Daily Counts – 13,000 vehicles
- 85th percentile Speed – 36 mph southbound
  36 mph northbound
Pedestrian Access to Washington Park

- Traffic signals approximately every ¼-mile
  - Speer
  - Bayaud / Marion
  - Alameda
  - Virginia
  - Exposition
  - Kentucky
  - Louisiana

- Traffic signals rebuild at Louisiana, Kentucky, and Virginia

- Access gap between Kentucky Ave to Louisiana Ave.
Pedestrian Access to Washington Park

DOWNING & OHIO
Weather: Cold / Sunny / Dry
1pm – 7pm count
• Thursday, December 5th 2019
• 2 Peak Pedestrians Crossings
  Less than 20 pedestrians per hour

DOWNING & MISSISSIPPI
Weather: Mild / Sunny / Dry
8am – 8pm count
• Saturday, December 7th 2019
• 23 Peak Pedestrian Crossings
  More than 20 pedestrians per hour
Moving Forward

**Speer and Downing**
- Remove double right turn lane

**Speer to Bayaud**
- Travel lane rebalancing – delineating inside travel lane and hashing out additional space

**Ellsworth and Downing**
- Enhanced pedestrian crossing with painted bulbouts
- Rapid flashing beacon warrant analysis

Modify signal timing at Virginia to include leading pedestrian interval (LPI) every cycle
Moving Forward

Modify signal timing to include leading pedestrian interval (LPI) every cycle at:
- Exposition
- Kentucky
- Louisiana

MISSISSIPPI AND DOWNING
- Install new crossing on south leg with pedestrian refuge and ramp on the east side
- Improved access to RTD stop

MISSISSIPPI TO ARIZONA
- Traffic calming elements
Schedule

**Design:** Summer 2020 - Fall 2020

**Implementation:** Fall 2020 - Spring 2021