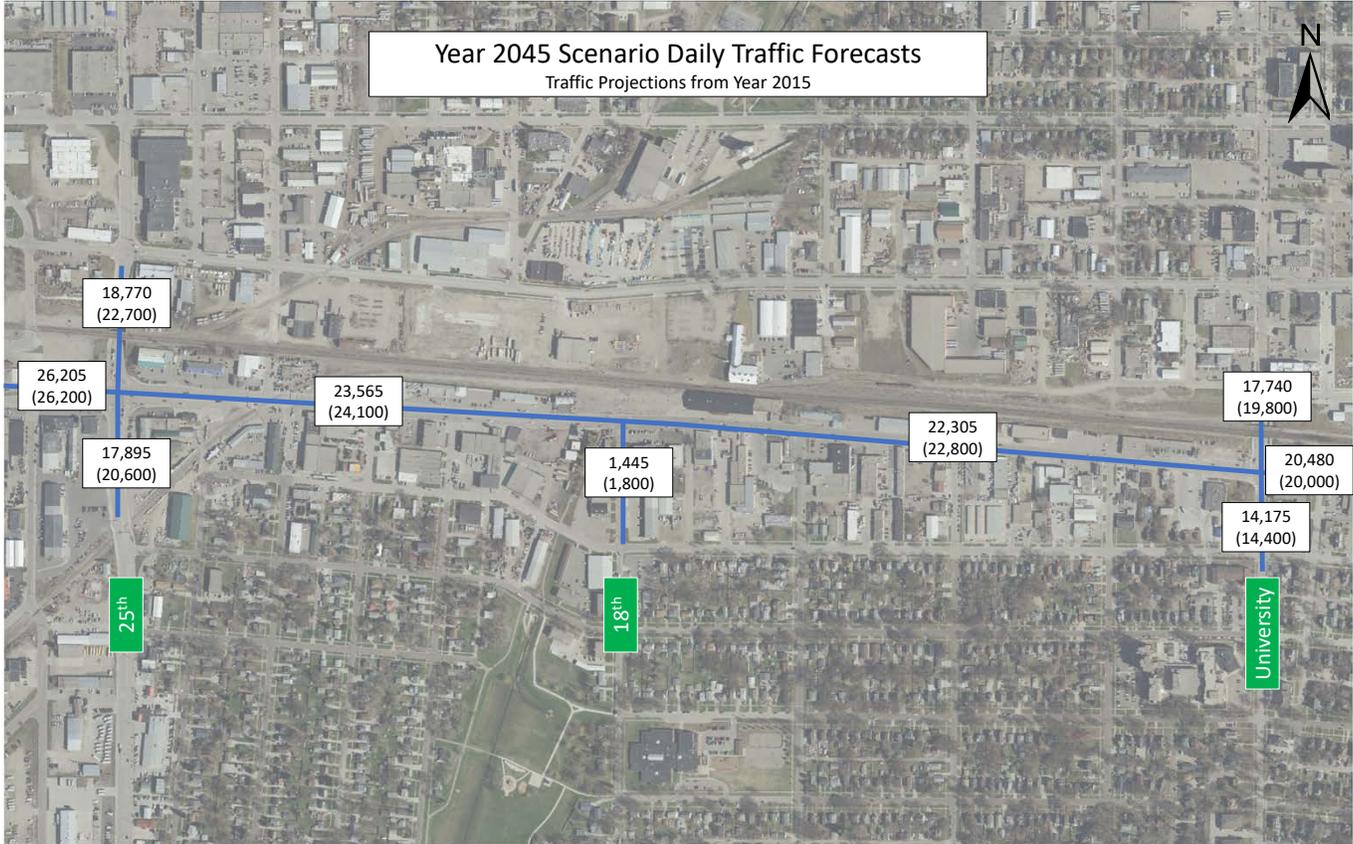
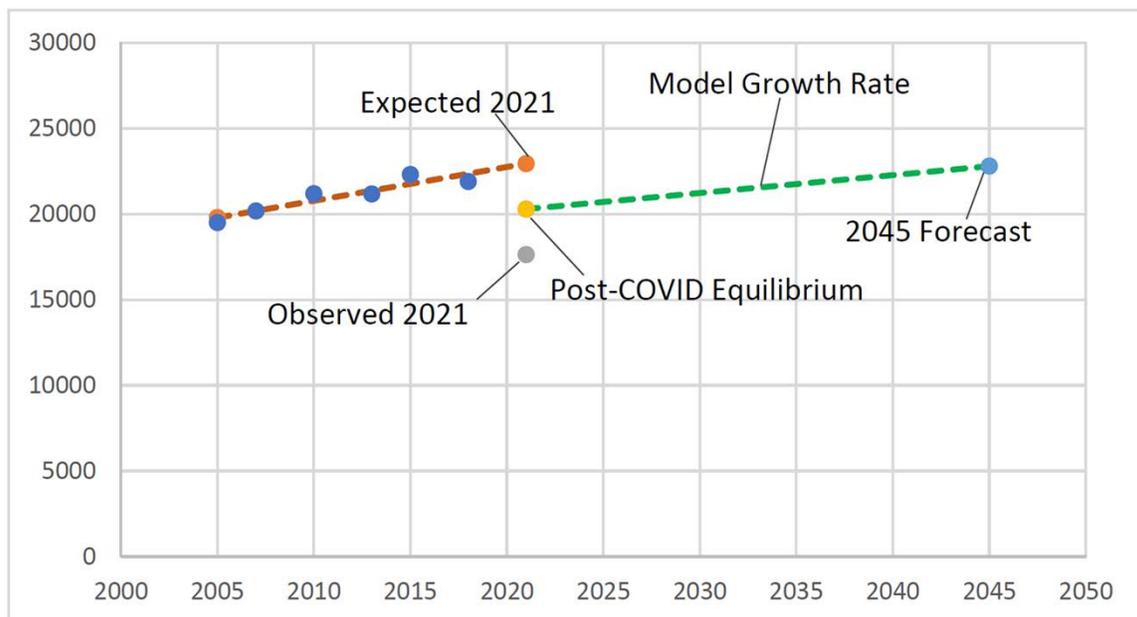


Traffic Forecasts

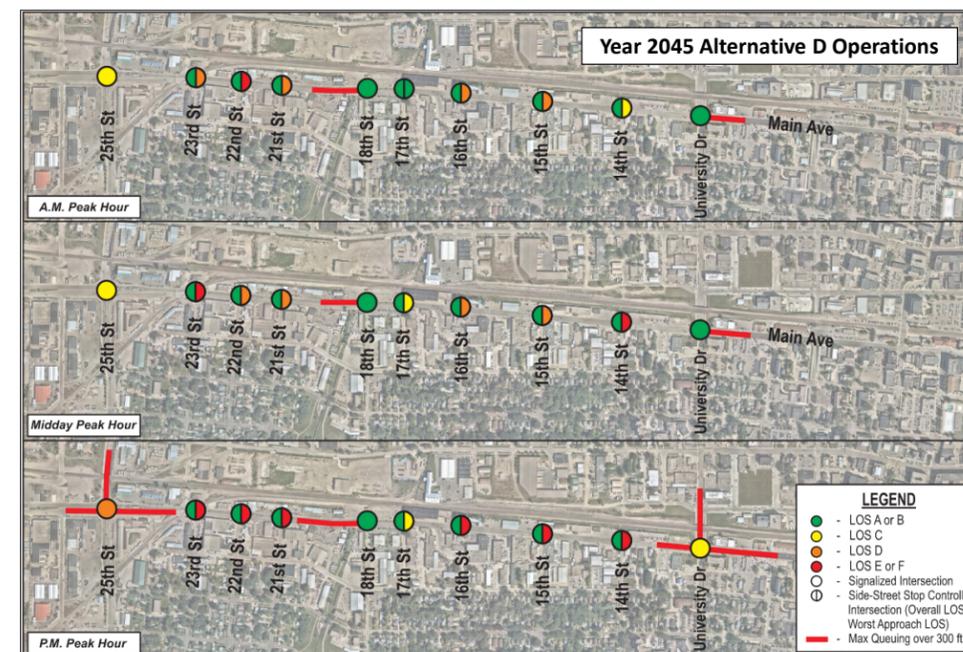
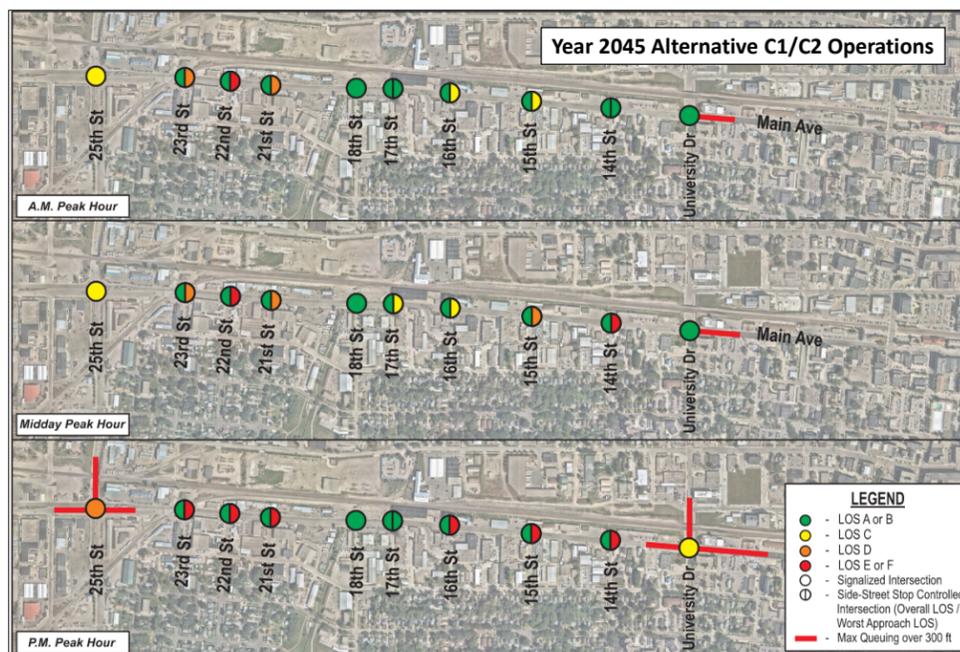
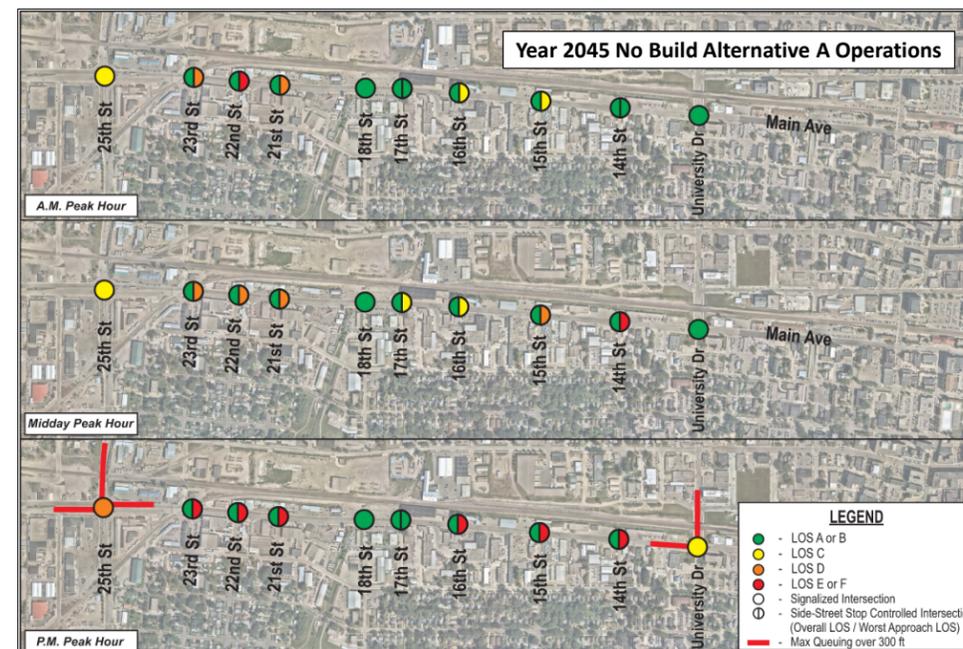


Year 2045 Scenario Daily Traffic Forecasts

The Year 2045 Scenario represents year 2045 conditions along Main Avenue in the project area. Year 2045 traffic forecasts were developed using the Fargo-Moorhead Metropolitan Council of Government's travel demand model and adjusted to account for the impacts of the COVID-19 pandemic on travel patterns.



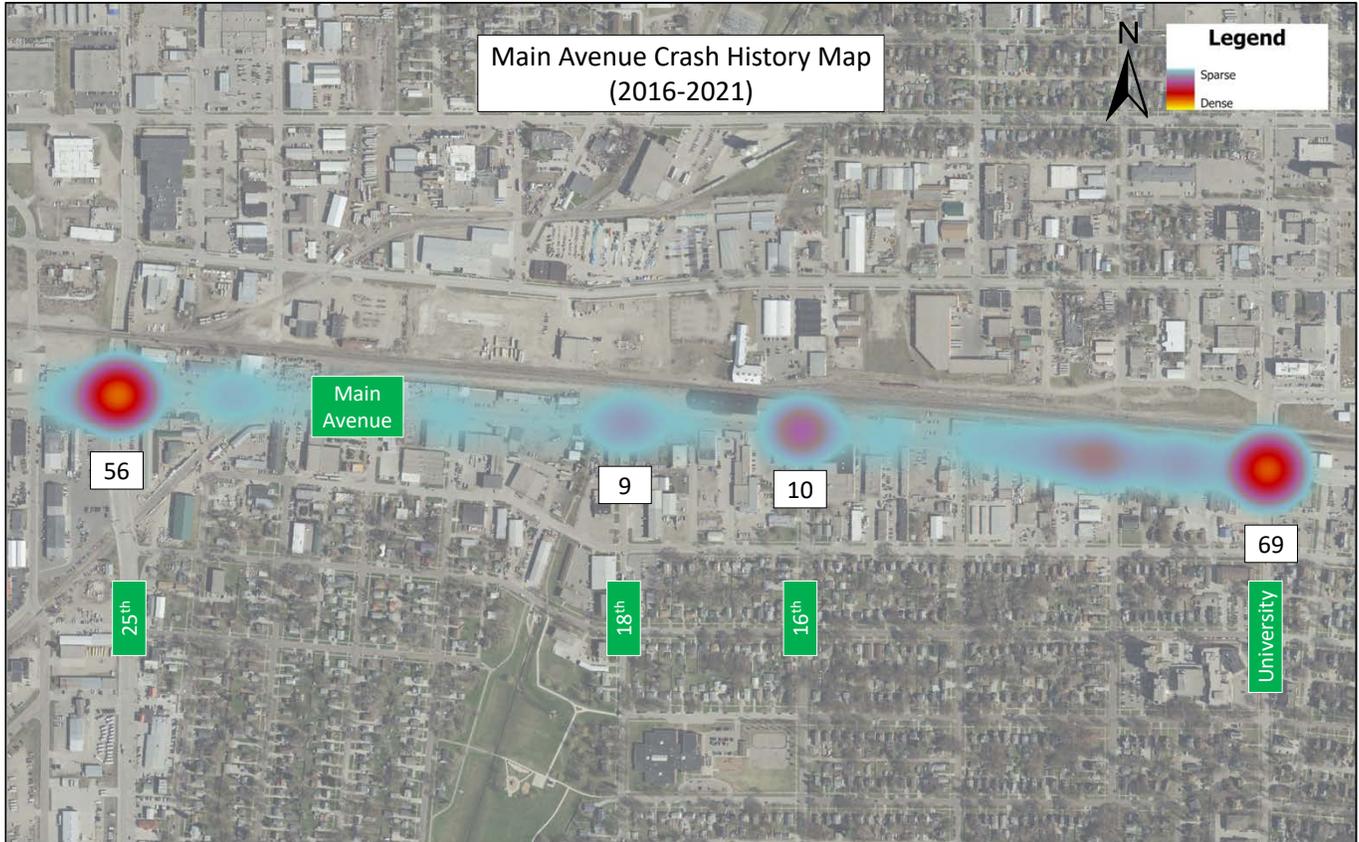
Traffic Operations Results



Traffic Operations

Traffic simulation analysis was completed for existing and future year conditions for the a.m., midday, and p.m. peak hours through the project corridor. These analysis results are expressed as Level of Service (LOS) which is based on the average delay of vehicles using an intersection. NDDOT guidance is to meet or exceed overall LOS D for an intersection.

Crash Analysis



Crash Analysis

A crash analysis was performed using five years of crash data along Main Avenue to identify any major safety concerns. Crash data from October 1, 2016 through September 30, 2021 was evaluated. The corridor analysis showed the majority of the crashes occurred at the signalized intersections at 25th Street and University Drive. In response, a crash rate analysis was conducted for these two intersections to determine if these locations have significant crash problems. The intersection of Main Avenue and University Drive was reconstructed within the timeframe of the crash analysis, so this intersection was analyzed for the previous intersection configuration as well as the current intersection configuration to capture the safety impacts of the intersection reconstruction.

Intersection	Total Number of Crashes	Calculated Crash Rate (Million Entering Vehicles)	Average Crash Rate for Similar Intersection	Critical Crash Rate per MEV
Main Avenue & 25th Street	56	0.73	0.70	0.96
Main Avenue & University Drive	69	1.02	0.70	0.97
Main Avenue & University Drive Previous Configuration	45	1.34	0.70	0.97
Main Avenue & University Drive Current Configuration	24	0.71	0.70	0.97