

Purpose and Need

The purpose of the project is to improve safety and capacity of 95th Street at Book Road and to minimize operational impacts at adjacent full access points.



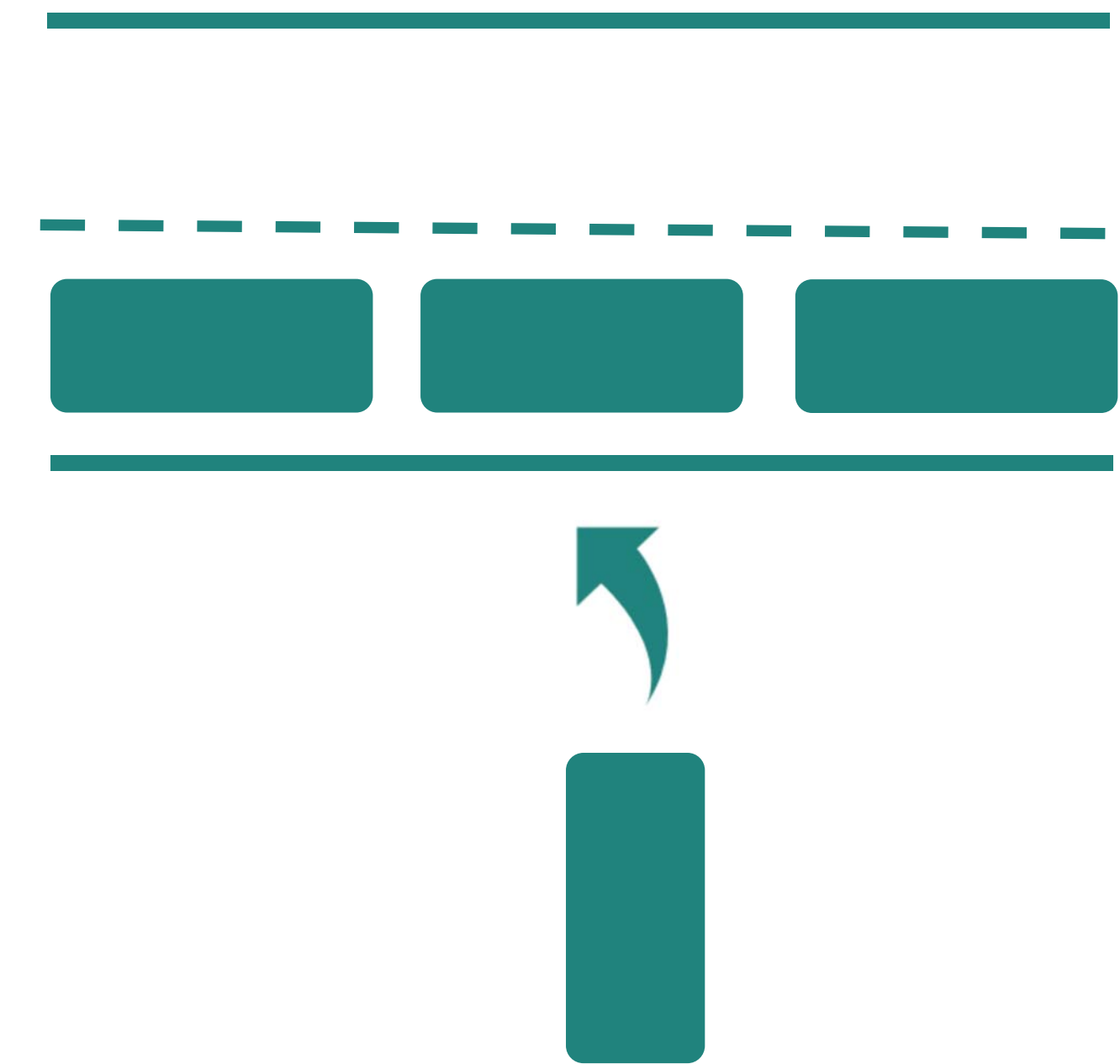
SAFETY

The intersection is currently experiencing approximately 20 crashes per year, which is nearly three times the expected crash frequency of a similar intersection in Illinois.



CAPACITY

The intersection has movements with high delay. Delay is graded in levels of service (LOS) A thru F, with A being low delay and F being high delay. The typical minimum desired LOS is D. In the current AM peak hour, the eastbound left and westbound thru movements operate at LOS E. In the PM peak hour, the northbound left and the southbound thru movements operate at LOS E. Projecting traffic out to the year 2040, the overall intersection will operate at LOS F in the AM and PM peak hours.



OPERATIONS

The intersection causes operational issues at Book Road at Tamahawk Lane. Southbound queues on Book Road extend into the intersection of Book Road at Tamahawk Lane in both the afternoon school peak and the PM peak hour, causing a queue blockage issue. Projecting traffic out to the year 2040, two more locations will have queue blockage issues: the YMCA entrance on 95th Street and the Church / Commercial Entrance on Book Road.