Purpose and Need

» Roadway Deficiencies
  ▪ Variable roadway types (alternating 2-lane and 4-lane)
  ▪ Offset intersections (many side streets don’t line up)
  ▪ Substandard vertical curves (hills/valleys)

» Safety
  ▪ 255 crashes from 2010 through 2014
  ▪ Nearly 40% were injury crashes; one fatal crash in 2012

» Traffic Demand
  ▪ WisDOT forecasts show a 13 to 21 percent traffic increase over 24-year period to Design Year of 2039
  ▪ Difficulty turning onto and off of North Avenue at side street intersections and driveways
Purpose and Need

» Design Year (2039) Traffic Operations
  ▪ North Avenue sections are expected to operate at an unacceptable LOS during peak hours
    – Through the Calhoun Road intersection
    – All existing two-lane roadway sections
  ▪ Some traffic movements at intersections will operate at an unacceptable level of service (below LOS D) during peak hours
    – Intersections with Calhoun Road, Pilgrim Square Drive, Highland Drive, Lilly Road, 124th Street, and select stop controlled intersections

» Transportation and Land Use Planning
  ▪ North Avenue is on the National Highway System, and is designated as a principal arterial
  ▪ The Southeastern Wisconsin Regional Planning Commission’s 2035 Regional Transportation Plan includes North Avenue as a 4-lane roadway from Calhoun Road to 124th Street; other east-west and north-south routes in Brookfield are also identified as requiring capacity expansion