Summary of Purpose & Need and Project Objectives

Purpose of the Proposed Action

The purpose of the project is to reduce congestion and improve functional deficiencies and traffic operations and safety for the traveling public within the I-25 and Arapahoe Road interchange complex, extending along Arapahoe Road from west of the Yosemite Street intersection to east of the Boston/Clinton Street intersection.

Need for the Proposed Action

- Arapahoe Road is a critical east-west roadway link and an important transportation corridor supporting economic activity in Arapahoe County, Centennial and Greenwood Village.
- The existing design and capacity of the interchange no longer accommodates traffic demands.
- The interchange complex experiences heavy traffic throughout the morning, noon and evening peak periods.
- Vehicle queuing occurs along Arapahoe Road at the Boston/Clinton and Yosemite Street intersections due to the close intersection spacing and high turning traffic volumes.
- The two narrow eastbound through travel lanes on Arapahoe Road under I-25 cause traffic to slowly negotiate the southbound I-25 to eastbound Arapahoe Road double left turn, resulting in lengthy vehicle queuing on the southbound off-ramp.
- Traffic volumes are projected to increase by over 30 percent through 2035.

Without roadway improvements, drivers will experience increasing congestion surrounding the I-25/Arapahoe interchange complex.

Project Objectives

The objectives of the improvements should:

- Improve functional deficiencies and operational efficiency of the interchange complex and meet future traffic demands
- Improve safety for motorists, pedestrians and bicyclists
- Accommodate multimodal connections
- Be sensitive to and preserve the residential and business community character of the area through Context Sensitive Solutions (CSS)
- Mitigate adverse impacts
- Consider the economic importance of the interchange at the local and regional levels
- Create the best value, considering benefits, anticipated construction costs, life cycle costs, and potential for funding