

Client Contact:
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Services Provided:

- **Pavement Thickness Design Study**

Project Summary:

Cesare, Inc. (Cesare) conducted a pavement thickness design study for West Alameda Parkway widening from the future McIntyre Street to Bear Creek Boulevard in Lakewood, Colorado. West Alameda Parkway is currently a two to four lane roadway paved with asphalt. West Alameda Parkway is classified as an arterial. This portion of West Alameda Parkway is about 6,500 feet in length and is paved with asphalt. It is two lanes for most of this alignment, except at Indiana Street where it has been widened to four lanes.

The subgrade soil was sampled by drilling 13 borings at a spacing of approximately 500 linear feet, alternating between the north and south sides of the roadway. West Alameda Parkway was cored at 25 locations at a frequency of about one per 500 linear feet, per lane, to determine the existing pavement thickness. The pavement of West Alameda Parkway is in various stages of deterioration. To evaluate the condition of the pavement, ratings were applied to 500 linear feet sections of roadway using the *Asphalt PASER Manual*, Transportation Information Center, University of Wisconsin, 2002. The Cesare laboratory testing included gradation analysis, Atterberg limits, swell/consolidation, R-value, and water soluble sulfate tests.

Cesare provided recommendations for pavement and subgrade construction, pavement thickness, and fill placement.

