**Accessible Route Design Standards**

The Architectural Barriers Act Accessibility Standards (ABAAS) Advisory F104.1.1 states “Construction and Manufacturing Tolerances – Where a [ABAAS] requirement is a minimum or a maximum dimension that does not have two specific minimum and maximum end points,…..it would be good practice **to specify a dimension less than the required maximum** (or more than the required minimum) by the amount of the expected field or manufacturing tolerance….”

The American Concrete Institute (ACI-117.1R-14, 5.8.2.1) recommends the following design strategy to meet accessibility standards, “The general practice is to specify a dimension less than the required maximum….” See ACI design slope and cross-slope recommendations in the table below.

The Denver Service Center (DSC) requires designs for slopes and cross-slopes to be in accordance with the table below - see DSC Design Requirements. This requirement considers construction tolerances in order to meet ABAAS post construction.

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| DSC DESIGN SLOPE / CROSS-SLOPE REQUIREMENTS | | |
|  | **ABAAS**  **Construction Maximums**  + 0 Construction Tolerance | **DSC**  **Design Requirements**  ACI Recommendations |
| Ramps | 1:12 = 8.33% | 1:13.3 = 7.5% MAX |
| Walking Surfaces | 1:20 = 5.00% | 1:25 = 4.0% MAX |
| Parking | 1:48 = 2.00% | 1:66.6 = 1.5% MAX |
| ‘Level Areas’ e.g. landings, parking access aisles, turning spaces, etc. | 1:48 = 2.00% | 1:66.6 = 1.5% MAX |
| Cross-Slope | 1:48 = 2.00% | 1:66.6 = 1.5% MAX |