

Curb Ramp Plan Quality Checklist

Refer to [ADA Project Design Guide](#) for more information

30%-60%

- ✓ Appropriate plan level of detail for each quadrant
 - Utilize [Plan Level 1](#), which does not include ramp plan views and presents all designs in a Tabulation, whenever the edge of ramp lines up with the approaching back of sidewalk and ramp grades will be compliant
 - Utilize [Plan Level 2](#) when standard plans don't apply and for all signalized intersections
 - Utilize [Plan Level 3](#) if any slopes will be non-compliant due to adjacent elevation constraints (example – doorways to match) or if flow line profile changes
 - Reconstruction projects always include 20-scale Intersection Detail sheets with elevation information (see next page for more information)
- ✓ Appropriate ramp types selected
 - If less than 7 ft available public right-of-way (measured perpendicularly) from back of curb, parallel, depressed corner, or one-way ramp types are the only options.
 - If there's 7 ft or more available public right-of-way, tiered, fan, or combined directional ramp types should be designed.
 - There needs to be a minimum 5.5 ft (measured radially) between inside edges of ramps to fit two ramps or a combined directional on one corner. Two ramps (or a combined directional) should be designed whenever they fit on a quadrant.
 - Fans with a running slope greater than 5% and diagonal ramps are designed only where there are no other options
- ✓ Proper application of radial domes for fan and depressed corner ramp types
 - Do not use unless the width of domes is greater than 6 ft
- ✓ Signalized intersections will be APS-ready, at a minimum

Level 2 or 3 30-60% Details

- ✓ 20-scale used for all Intersection Detail sheets and all four quadrants of the same intersection appear on the same Intersection Detail sheet
- ✓ All surface utilities and aboveground signal system components depicted on Intersection Detail sheets and properly scaled
- ✓ Truncated domes drafted 3" minimum to 6" maximum from the back of curb
- ✓ Hatched landings at the top of each curb ramp and at changes in PAR (pedestrian access route) direction

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60%-90%

- ✓ Truncated dome widths estimated 0.5 feet less than approaching PAR width or 4 ft width, whichever is greater
 - Straight truncated domes manufactured in 24", 30", and 36" widths
 - Radial dome radii range from 10 ft minimum to 35 ft maximum; Manufacturers mix square and radial types for radii greater than 35 ft
 - Note radii of radial domes and atypical (30" or 36") straight domes widths in [Tabulation](#)
- ✓ ADA pay items and/or traditional pay items applied in accordance with [pages 18-19](#) of ADA Project Design Guide
 - 6" Concrete Walk used for all sidewalk on curb ramp improvements projects. There should not be a separate pay item for 4" Concrete Walk unless the project includes a substantial amount of sidewalk replacement (or new sidewalk).
- ✓ All five Standard Plan (5-297.250) sheets included. Standard Plates 7038A and/or 7035N included when applicable.
- ✓ 1.5% cross slope for concrete walk on Typical Sections
- ✓ Include 2573.530 Storm Drain Inlet Protection (Each) pay item

Level 2 or 3 90% Details

- ✓ All grade breaks perpendicular to the path(s) of travel
- ✓ On Level 2 APS upgrade designs, provide (x,y) for push button station locations and at outside edge of truncated domes
- ✓ Drainage direction arrows shown for gutter lines
- ✓ Label curb height between two ramps and on islands on Intersection Detail sheets
 - Label either 3" MINIMUM (if 5.5 ft measured radially) or 4" (if 7+ ft measured radially) between two ramps
- ✓ APS push buttons located in accordance with MN MUTCD criteria
 - Push buttons are adjacent to landings and 1-2 ft from proposed ramp grade break
 - Locate 6 ft preferred, 9.5 ft max (in design) from back of curb (measured perpendicularly). Allowable range is 1.5-10 ft.
 - 10 ft minimum spacing between two buttons on a quadrant. Allow for a 6 ft MAR (maintenance access route) at quadrants and free right islands.
 - Maximum 5 ft lateral distance from propagated outside crosswalk edge
 - Do not plan for two separate buttons on a median unless median width is greater than 20 ft.
- ✓ Level 3 (specific slope) designs allow for a construction tolerance
 - 1.5% cross slopes
 - 7.5% ramp running slopes
 - Maximum slopes (2.0% cross slope and 8.3% running slope) are written in Special Provision (1803) language and on Standard Plan sheets
- ✓ Reconstruction projects include (x,y,z) or station/offset and elevation points at each edge of truncated domes and one point on landings. Where directional curb is designed, include 3 points: each edge of domes and one additional point on the flow line at the ramp edge