

Pedestrian Facility	Obstacle	Applicable Standard	Mitigation
All facilities	Rough, unstable, slippery surfaces	302.1	Replace or modify as needed, specifying use of hard, durable, textured materials such as brushed concrete for ground surfaces
	Surface openings greater than ½ inch in width	302.3	Fill gap or replace adjacent concrete panel to eliminate gap
	Vertical change in level greater than ¼ inch, and less than ½ inch	303.3	Use grinder or similar machine to bevel surface to a slope not steeper than 1:2
	Changes in level greater than ½ inch	303.4	Use grinder or similar device to bevel surface to a slope not steeper than 1:12
	Object 27-80 inches in height protrudes 4 or more inches into circulation path	307.2	Relocate or remove object, or trim object if vegetation
	Post mounted object protrudes 12 or more inches, or is between 27 and 80 inches high	307.3	Relocate or remove object, or raise above 80 inches or extend below 27 inches in height
	Vertical clearance less than 80 inches	307.4	Relocate or remove object, or raise 80 inches or more above floor. If not feasible, provide protective barrier
Accessible Routes	Running slope exceeds 1:20, or cross slope exceeds 1:48	403.3	If running slopes greater than 1:20, <i>and greater than running slope of adjacent street</i> , route will be modified or reconstructed as needed to comply with standards for ramps. Cross slopes greater than 1:48 +/- 1% will be reconstructed
	Clear width less than 36 inches overall, or less than 32 inches over distances greater than 24 inches	403.5.1	Narrow accessible routes will be reconstructed to provide minimum 36 inch width overall (target width will be 48 inches), or obstacles will be removed or relocated to provide minimum 32 inches of width over lengths less than 24 inches
	Clear width less than 60 inches wide over distance more than 200 feet	403.5.3	Construct new passing zones that are minimum of 60x60 inches, at a maximum spacing of 200 feet
Ramps	Ramp slope steeper than 1:12	405.2	Steep ramps will be reconstructed to provide a slope less than or equal to 1:12
	Ramp cross slope greater than 1:48	405.3	Cross slopes greater than 1:48 +/- 1% will be reconstructed
	Ramp width less than 36 inches	405.5	Ramp will be reconstructed to provide an accessible route with a minimum width of 36 inches
	Ramp does not have a landing at the top or bottom of the ramp run	405.7	Landing will be added to existing ramp where feasible. If not feasible, ramp will be reconstructed with landing incorporated into design
	Slope on ramp landing exceeds 1:48	405.7.1	Cross slopes greater than 1:48 +/- 1% will be reconstructed
	Width of landing is less than width of ramp	405.7.2	Landing will be reconstructed to match width of ramp (minimum 36 inches wide)

Ramps	Landing is less than 60 inches long	405.7.3	Landing will be reconstructed to be at least 60 inches long
	Landing that changes direction is less than 60 inches wide and 60 inches long	405.7.4	Landing will be reconstructed to be at least 60 inches long and 60 inches wide
	Ramp run with a rise greater than 6 inches that does not have a handrail	405.8	Hand rail will be added to ramps with rise greater than 6 inches
	Landing does not have edge protection where the edge drop off is greater than ½ inch within 10 inches of the landing area	405.9	Edge will be regraded to eliminate drop off where feasible, or landing will be modified to include 4 inch high curb or barrier along edge
	Landing accumulates water	405.10	Landing will be modified or reconstructed as necessary to provide adequate drainage
Curb Ramps	Curb ramp does not comply with applicable standards for ramps	406.1	Modify or reconstruct as necessary to comply with applicable standards for ramps
	Counter slope exceeding 1:20 adjacent to ramp	406.2	Modify or reconstruct gutter or road surface so that cross slope does not exceed 1:20
	Curb ramp flare in accessible route exceeds slope of 1:10	406.3	Modify accessible route to avoid curb ramp flare, or replace flare with one with slope equal to or less than 1:10
	No landing at top of curb ramp, or landing is less than 36 inches long, or landing is not as wide as ramp	406.4	Install new landing at top of existing ramp, extend existing landing to 36 inches in length and/or match ramp width (minimum 36 inches wide), or reconstruct ramp to include appropriate landing
	No landing at top of existing curb ramp	406.4 (exception)	If reconstruction of ramp is not required, no landing is necessary if flares are not steeper than 1:12
	Ramp projects into travel lane, parking space, or parking access aisle, or ramp is not wholly contained within crosswalk markings	406.5	Remove and reconstruct ramp at new location to avoid travel lanes, parking spaces, and parking access aisles. Relocate crosswalk markings as necessary (relocating stop bar, if applicable) to contain ramp, excluding and flared sides
	Diagonal or corner ramp edges not parallel to direction of pedestrian flow. Clear space at bottom of ramp is less than 48 inches long and outside active traffic lanes, and/or outside of marked crosswalk. Less than 24 inches of curb is not enclosed by the crosswalk markings on outside edges of flare.	406.6	Reconstruct ramp flares to be parallel with pedestrian flow. Reconstruct ramp and/or curb as necessary to provide 48 inch long clear space outside of active traffic lanes, and/or remark crosswalk to enclose clear space and 24 inches of curb (relocating stop bar, if applicable)
	Raised island or median presents barriers to accessibility	406.7	Modify median/island to provide a level cut through or curb ramps. If ramps are used, a level area 48 inches long by 36 inches wide shall be provided between the tops of the ramps, aligned so that the long axis is parallel with the ramp running slope

<p>Detectable Warning Surfaces</p>	<p>Detectable warning surface not present at transition from ramp to road surface, or does not extend across full width of ramp (exclusive of flared sides), or is less than 24 inches long in the direction of pedestrian travel, measured from the back of the curb on the ramp surface</p>	<p>406.8</p>	<p>Install new detectable warning surface where absent, or replace existing so that all requirements are met. If the existing ramp meets all applicable standards, a “glue-down” detectable warning surface will be applied to the existing concrete, or a small section of concrete will be replaced with new concrete and a “cast in place” detectable warning surface. “Cast in place” detectable warning surfaces will be installed as part of all new ramp construction or reconstruction</p>
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1. Standards are based on the *Americans with Disabilities Act (ADA) Standards for Transportation Facilities*, Adopted by the U. S. Department of Transportation (2006), with minor modifications approved by the Maryland State Highway Administration and the Federal Highway Administration, indicated by *italics*.
2. The table includes all barriers to accessibility observed during the 2014 Self Evaluation of accessible pedestrian routes in Frederick County rights-of-way. Not all potentially applicable standards are shown.
3. Standards are presented as cumulative (a standard shall be applied to relevant subsequent standards, unless a specific exception is provided), redundant standards were omitted for brevity.
4. Driveway aprons are not specifically mentioned in the ADA, but standards for all facilities and accessible routes would apply, i.e. 302.1, 302.2, 302.3, 302.4, 403.3, 403.5.1.
5. Should a mitigation to bring a pedestrian facility into full compliance not be feasible, documentation will be provided demonstrating lack of feasibility as well as reasoning behind proposed solution. The proposed solution must result in either no change to accessibility or an improvement to accessibility, but shall not make accessibility more difficult than the existing condition.