

## Special Provisions – Curb Ramps

1. The location of work shall be determined and marked by the Engineer.
2. All material and workmanship shall be in accordance with Ohio Department of Transportation, Construction and Material Specifications, Latest Edition unless modified by City of Cleveland standard “D” specifications including all supplements thereto. The ODOT, Construction and Materials Specifications shall govern all construction items that are a part of this plan except when such specifications are modified by the General Notes, Construction Details or City of Cleveland specifications set forth herein.
3. The Contractor shall be responsible for Curb Ramp and sidewalk layout. Contractor shall be responsible for having the finished work conform to the lines, grades, elevations and dimensions to meet ADA Requirements. Any inspection or checking of the Contractor’s layout by the Owner and the acceptance of all or any part of it shall not relieve the Contractor of its responsibility to secure proper dimensions, grades and elevations of the several parts of the work. The Contractor shall use competent personnel and suitable equipment for the layout work required.
4. **Truncated Domes For Ramps: All curb ramps shall have Distinctively-Textured walking surfaces, detectable by cane, to warn pedestrians with visual impairments of an impending hazard on the circulation route ahead. The detectable warnings shall consist of truncated domes with a diameter of nominal 0.9 IN. (23 MM), a height of nominal 0.2 IN. (60 MM). The detectable warnings shall be 24 IN. (610 MM) in the direction of travel and extend the full width of the curb ramp or flush surface, except the flare surface. The location of the detectable warning shall be located so that the edge nearest the curb line or other potential hazard is 6 to 8 Inches (150 to 205 MM) from the curb line or other potential hazard.**

**Stamped truncated domes shall be tinted in a contrasting color to be approved by the engineer, using a single coat tinted curing and sealing compound. Said material shall be Polyseal, as manufactured by Chemmasters or approved equal at a coverage rate of 300-400 Sq. Ft./Gallon.**

**Truncated dome tiles tinted red as manufactured by Engineered Plastics Inc., Truncated Dome Tactile Systems as manufactured by ADA Solutions Inc. shall be installed as directed by the Engineer.**

**Cost of stamping and tinting the truncated domes to the curb ramps is incidental to the curb ramp layout pay item; no additional cost will be paid.**

**Cost of installing truncated dome tiles is incidental to the curb ramp layout with tiles layout pay item; no additional cost will be paid.**

## Special Provisions – Curb Ramps (Cont.)

5. The attached drawings for the different types of ADA compliant curb ramps are for the most prevalent situations. However, under circumstances that are not detailed in the drawings, it is the contractor's responsibility to layout the curb ramp to meet ADA Requirements.
6. Dimensions are based on a 6-inch curb height, and shall be proportionally adjusted for other curb heights.
7. The thickness of concrete in the Curb Ramp, including flared sides and rolled edges, shall be in the plans or as directed by the Engineer.
8. Ramps specified at 8-inch thickness shall be 8-inch thick everywhere in the ramp including the flared areas.
9. A 3-foot minimum width ramp may be used when existing space prohibits the construction of a 4-foot wide ramp with the approval of the engineer.
10. The ramp slope shall not exceed 12:1 at any Curb Ramp location where pedestrian traffic must travel along or across the Curb Ramp.
11. Cross-slope of Curb Ramps and sidewalks shall not exceed 48:1.
12. Transitional sections of sidewalk, that do not meet current standards and specifications, shall be installed to connect the new or replaced Curb Ramps. These transitions segments of sidewalk shall provide a smooth transition between the existing and new concrete.
13. All existing manhole covers, valve boxes, gratings, etc., that are located within the pedestrian right-of-way, shall be flushed mounted with the walking surface. Existing obstructions shall not have more than  $\pm\frac{1}{4}$  inch difference in elevation than the surrounding surface.
14. The location of Curb Ramps in new construction shall take precedence over the location of drainage structures, guardrails and traffic, utility or light poles.
15. The bottom edge of the Curb Ramp shall be flush with the edge of the adjacent pavement and gutter line.
16. Curb Ramps shall be aligned with the sidewalk and the crosswalk where possible. If alignment is not possible the Contractor is to notify the Engineer prior to proceeding with construction activities at this location.
17. Crosswalk markings placed in conjunction with Curb Ramp Type "2,3,6,8" shall be located such that, at a minimum, the Curb Ramp, exclusive of the flared sides or rolled edges, shall be completely contained with the crosswalk.

## Special Provisions – Curb Ramps (Cont.)

18. Crosswalk markings placed in conjunction with Curb Ramp Type “1,4,5,7,9,10,11 (Diagonal Ramps)” shall be located at least 2-feet beyond the outside of the flared sides.
19. The rolled edges shall be constructed so that they are parallel to the direction of pedestrian traffic.
20. Rolled edges shall only be used adjacent to tree lawns, utility strips and large obstructions such as signal controllers.
21. The normal gutter flow line shall be maintained throughout the Curb Ramp area, and appropriate drainage structures shall be used, as needed, to intercept the flow of water prior to the Curb ramp area. Positive drainage shall also be provided to carry water away from the intersection of the Curb Ramp and gutter line.
22. Surface texture of Curb Ramps shall be coarse-broomed or other approved method transverse to ramp slope (minimum 1/8 inch – maximum 3/16 inch deep). Beyond the TRUNCATED DOMES part of the ramp.
23. Curb poured separately from the ramp shall be separated from the ramp by ½ inch pre-molded expansion joint.
24. When less than 3-feet of a curb section remains after the curb cut is located, it shall also be removed and replaced. New curb shall be constructed in a minimum of 3-foot sections and a maximum of 5-foot sections, or as directed by the Engineer.
25. Fill for sidewalk and Curb Ramps, if required, shall be sand and gravel sub-base compacted in layers not exceeding 2-inches. Cost for the sub-base shall be incidental to ramp construction.
26. Curb Ramps and surrounding concrete walk shall be constructed of Portland cement concrete, City of Cleveland 650 mix unless directed otherwise by the Engineer.
27. ½ - inch pre-molded expansion material shall be placed whenever new concrete touches existing construction.
28. Forms shall consist of wood or metal and extend for the full depth of the concrete, and of sufficient strength to resist the pressure of the concrete without springing.
29. An approved curing compound shall be properly applied immediately after finishing the concrete.