

11.00 CHAPTER 11: PEDESTRIAN FACILITIES STANDARDS

11.01 Introduction and Goals

11.02 Administration

11.03 Standards

11.04 Standard Attachments

DRAFT

11.00 INTRODUCTION AND GOALS

It is the goal of this chapter to provide safe and convenient pedestrian access ways to all residential, commercial, office, and industrial developments. Sidewalks or trails shall be installed in all subdivisions unless a waiver has been granted by the City of Peoria. Sidewalk shall be installed, repaired or upgraded, as needed on any individual site development / redevelopment as determined by the City Engineer or designee. [Note to Jeff—this is where we could use a ‘substantial improvement’ description.]

11.01 ADMINISTRATION

A. Repair or reconstruction of existing sidewalks: Per the direction of the City Representative, any sidewalk work shall be done per the following criteria of this chapter:

1. *Traffic Control* shall be provided for all sidewalk and trail construction including the necessary means of keeping both the contractor and pedestrians safe during construction. This may include the use of construction signs, barricades, lighting, and / or directing traffic, (with traffic control flaggers if necessary.)
2. *ROW Permits:* The necessary ROW permits shall be obtained from the City.

B. Construction of sidewalks and trails in new subdivisions: Construction of sidewalks and trails in new subdivisions shall be per the City of Peoria Municipal Code, IDOT Standard Specifications, AASHTO standards, and the standards and requirements of this Manual.

C. Referenced Standards:

1. The City of Peoria Municipal Code.
2. IDOT Standard Specifications for Road and Bridge Construction, latest edition.
3. IDOT Highway Standards, latest edition.
4. IDOT Construction Manual, latest edition.
5. AASHTO Standards.
6. ADA / ADAG / PROWAG requirements.

11.02 STANDARDS

A. Thickness: All sidewalks shall be a minimum of 4 in. thick on a minimum of 2” of compacted CA6 subbase.. Sidewalks at driveway locations shall be thickened to match the thickness of the driveway pavement.

B. Width: Sidewalks shall not be less than 5 ft. in width; sidewalks in high traffic areas, including the commercial, downtown and campus districts, may require a 6 ft. width or greater, as determined by the City Engineer.

C. Subgrade: Sidewalk/trail subgrade material shall be free of debris, organic material, plastic clays, and other material prone to freeze-thaw damage. Subgrade material shall be compacted per IDOT standards to prevent settling.

D. Location: Sidewalks shall be located on both sides of the street within the public right-of-way. There is to be a minimum one foot of space between the outside edge of the sidewalk and the public right-of-way / property line. If excessive distance is between street crossings, mid-block sidewalks shall be located as per Section 8.01 of this Manual. Trails shall be located per the City of Peoria's adopted "Bike Walktrail Plan".

E. Access: In developments where normal street configuration does not provide adequate pedestrian access to schools, parks, commercial centers, or other pedestrian traffic generators, alternate pedestrian access ways shall be provided within a dedicated public right-of-way or permanent easement.

F. ADA: All sidewalks and trails shall conform to current Americans with Disabilities Act (ADA) standards.

G. Minimum Geometry Requirements: Sidewalk and trail geometry shall comply with this manual, IDOT requirements, PROWAG requirements and ADA requirements. Minimum geometry requirements shall include, but not be limited to, the following:

1. *Grade*, (longitudinal slope), shall not exceed 8%, (1 in. per 1 ft.). Landings shall be provided at regular intervals, as per the current ADA guidelines, (see Standard Attachment 11.03).
2. *Cross Slope*, (transverse slope), shall not exceed 2%, (1/4 in. per ft.), downward in the direction of the back of curb.
3. *Ramps:* ADA ramps shall be provided at all necessary locations per IDOT and ADA requirements. Minimum face to face of curb width on sidewalk ramps shall be 3 ft.

G. Material Requirements: Sidewalks shall be constructed of Portland Cement Concrete (PCC) from an IDOT approved plant using IDOT approved mix design and material. Trails shall be constructed of Hot Mix Asphalt (HMA) from an IDOT approved plant using IDOT approved mix design and material.

H. Construction Requirements: Sidewalks shall be constructed per these standards and IDOT, Standard Specifications for Road and Bridge Construction, latest edition.

1. *Forms:* Steel forms shall be used. Lumber forms may be used when constructing sidewalk ramps, curved pavement, or small projects. However, in no case shall sidewalk be less than 4 in. thick.
2. *Expansion Joints:* Expansion joints, 3/4 in. thickness, should be placed only at junctions of pavement and sidewalk, and at the intersection of sidewalks, or as directed by the City standards and Resident Engineer.
3. *Ramp truncated domes:* Truncated domes will be constructed per IDOT and ADA standards, (see Standard Attachment 11.01).
4. *Constructed width:* The minimum sidewalk width shall be 5 ft. The minimum width for trails shall be 10 ft.

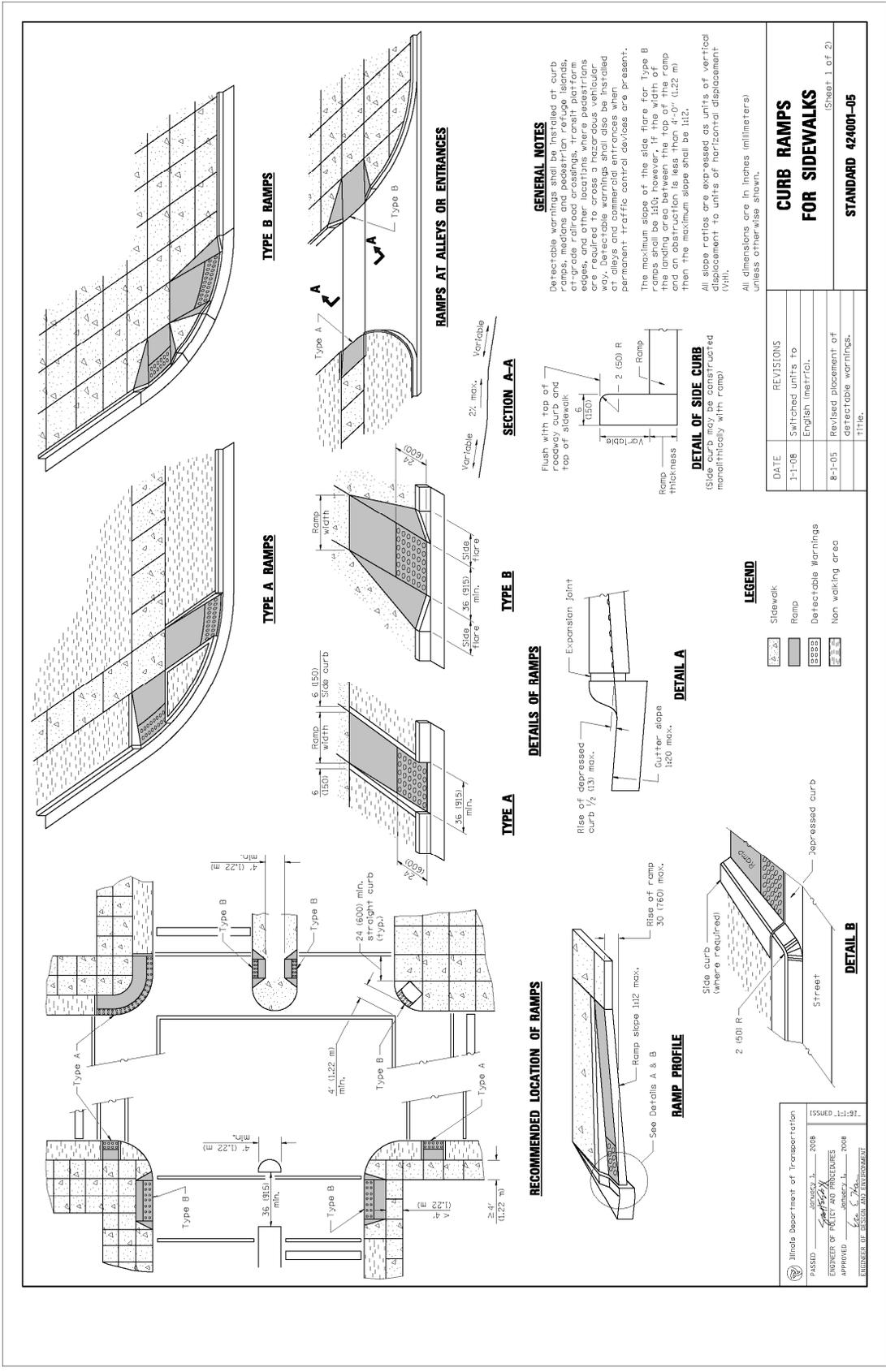
5. *Timing:* Sidewalks and trails should be constructed prior to occupancy of buildings or subdivision. Forms shall be stripped in accordance with the IDOT standard specification and the sidewalk or trail shall be backfilled immediately after the forms are stripped.
6. *Inspection and Testing:* All inspecting and testing procedures shall be followed as stated in the Illinois Department of Transportation Construction Manual.

11.03 STANDARD ATTACHMENTS

Standard Attachment 11.01—Sidewalk Ramps Accessible to the Disabled (This standard is frequently updated.)

Standard Attachment 11.02—Annual Accessibility Program Typical Ramp Details

Standard Attachment 11.03—Landing Requirements



GENERAL NOTES
 Detectable warnings shall be installed at curb ramps, medians and pedestrian refuge islands, crosswalks, and other locations where pedestrians are required to cross a hazardous vehicular way. Detectable warnings shall also be installed along the edges of ramps where permanent traffic control devices are present.
 The maximum slope of the side flare for Type B ramps shall be 1:12; however, if the width of the side flare is less than 4'-0" (1.22 m) and an obstruction is less than 4'-0" (1.22 m) then the maximum slope shall be 1:12.
 All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V:H).
 All dimensions are in inches (millimeters) unless otherwise shown.

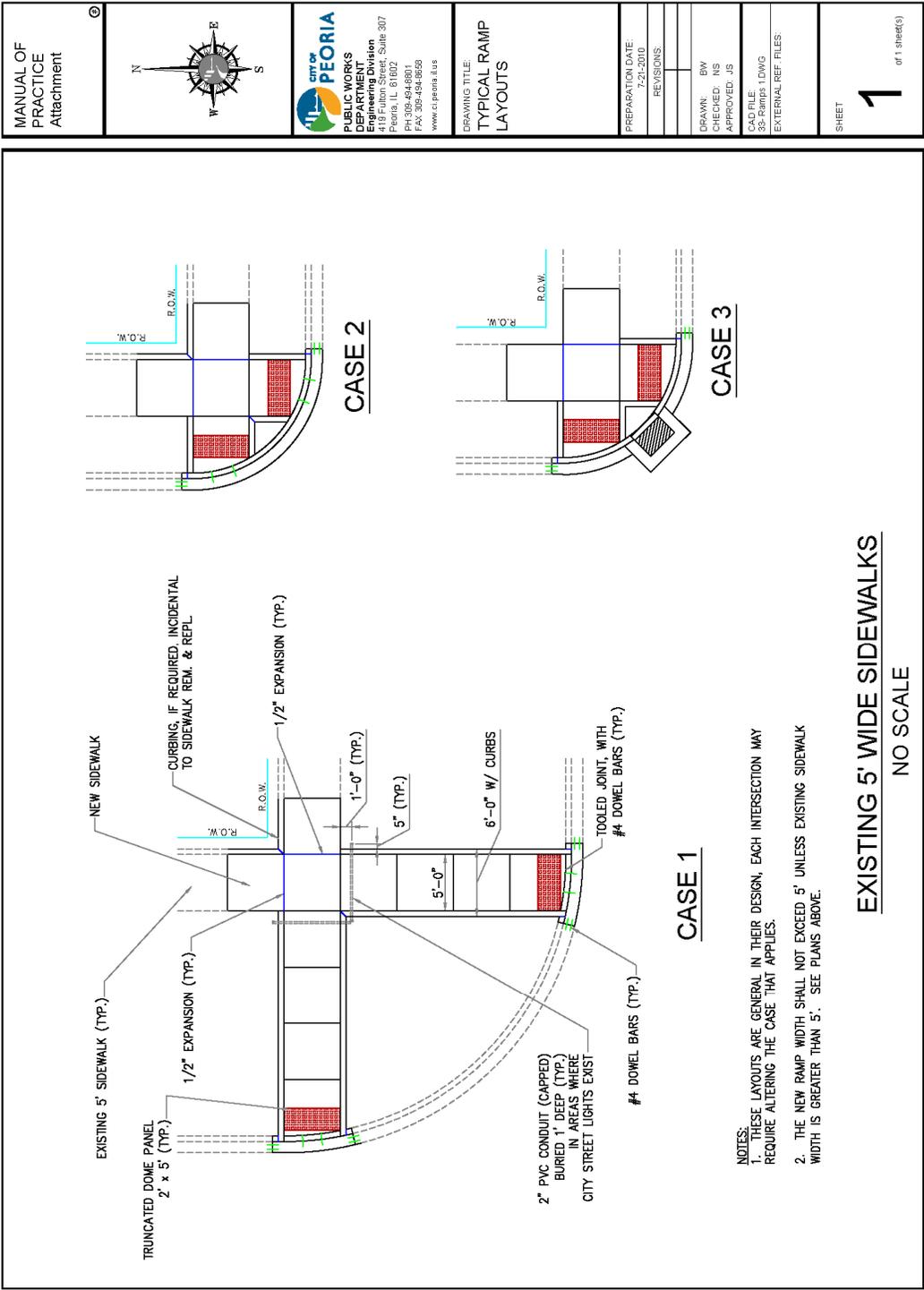
DETAIL OF SIDE CURB
 Side curb may be constructed monolithically with ramp

DATE	REVISIONS
1-1-08	Switched units to English/metric.
8-1-05	Revised placement of detectable warnings.

LEGEND

	Sidewalk
	Ramp
	Detectable Warnings
	Non walking area

Illinois Department of Transportation PASSED: JANSOZYL 11/2008 ENGINEER OF PUBLIC WORKS APPROVED: JANSOZYL 11/2008 MEMBER OF DESIGN AND ENVIRONMENT	ISSUED: 11/09 SHEET: 1 OF 2 STANDARD 424001-05
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MANUAL OF PRACTICE Attachment



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DRAWING TITLE:
TYPICAL RAMP LAYOUTS

PREPARATION DATE:	7-27-2010
REVISIONS:	
DRAWN:	BW
CHECKED:	NS
APPROVED:	JS

CAD FILE:
 33-Ramps 1.DWG
 EXTERNAL REF FILES:

SHEET
1
 of 1 sheet(s)

NOTES:
 1. THESE LAYOUTS ARE GENERAL IN THEIR DESIGN. EACH INTERSECTION MAY REQUIRE ALTERING THE CASE THAT APPLIES.
 2. THE NEW RAMP WIDTH SHALL NOT EXCEED 5' UNLESS EXISTING SIDEWALK WIDTH IS GREATER THAN 5'. SEE PLANS ABOVE.

EXISTING 5' WIDE SIDEWALKS
 NO SCALE

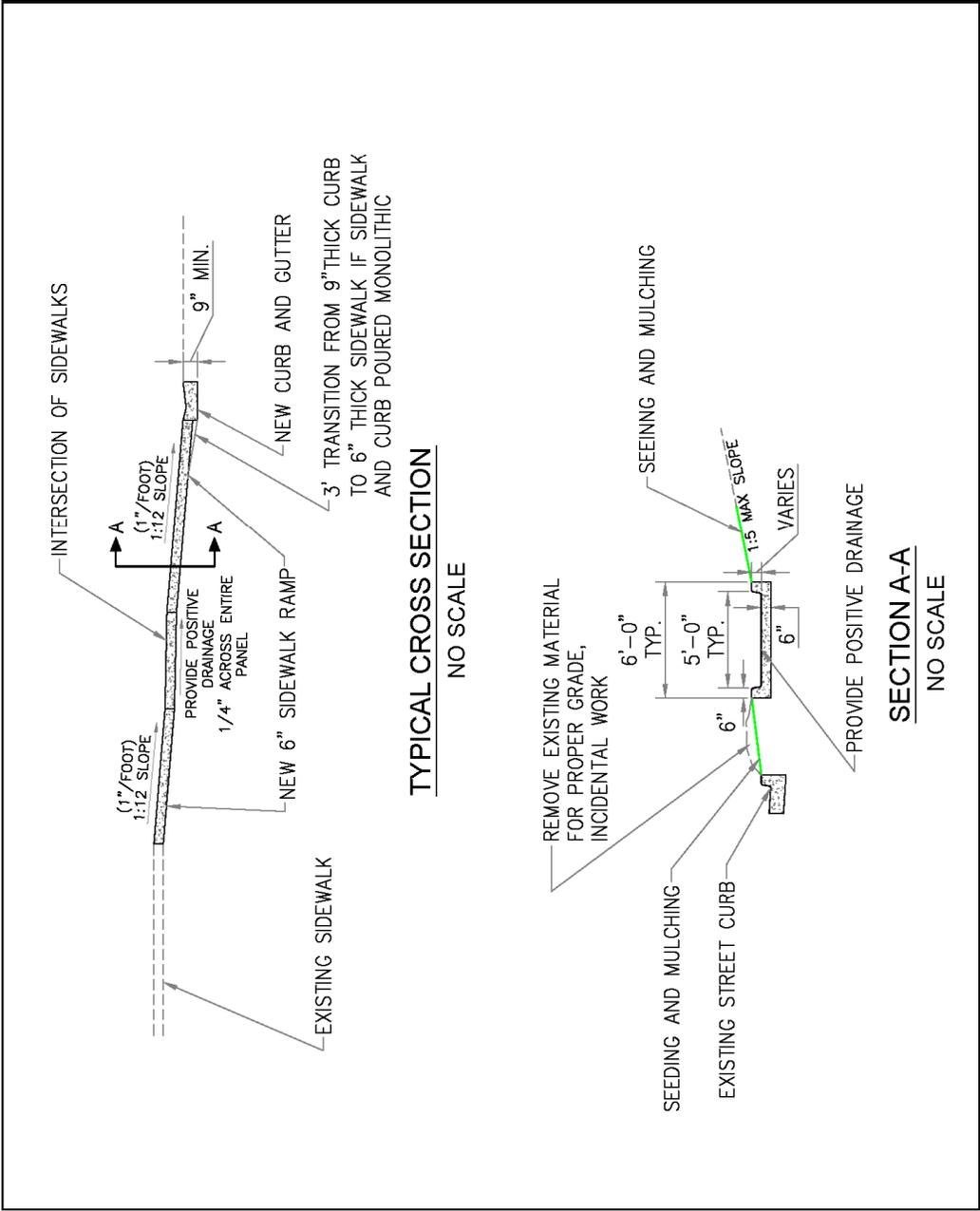
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DRAWING TITLE:
TYPICAL CROSS SECTIONS

PREPARATION DATE:	7-2-2010
REVISIONS:	
DRAWN:	BW
CHECKED:	NS
APPROVED:	JS
CAD FILE:	33-RAINFIS 1.DWG
EXTERNAL REF. FILES:	

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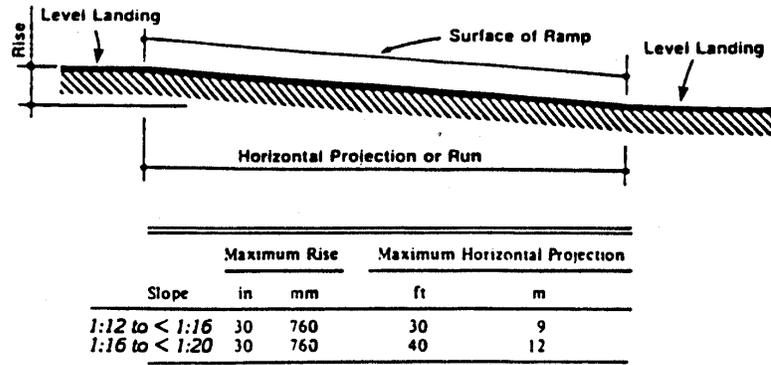


Fig. 16
Components of a Single Ramp Run and Sample Ramp Dimensions

4.8.3 Clear Width. The minimum clear width of a ramp shall be 36 in (915 mm).

4.8.4* Landings. Ramps shall have level landings at bottom and top of *each ramp and each ramp run*. Landings shall have the following features:

- (1) The landing shall be at least as wide as the ramp run leading to it.
- (2) The landing length shall be a minimum of 60 in (1525 mm) clear.
- (3) If ramps change direction at landings, the minimum landing size shall be 60 in by 60 in (1525 mm by 1525 mm).
- (4) If a doorway is located at a landing, then the area in front of the doorway shall comply with 4.13.6.

4.8.5* Handrails. If a ramp run has a rise greater than 6 in (150 mm) or a horizontal projection greater than 72 in (1830 mm), then it shall have handrails on both sides. Handrails are not required on curb ramps or *adjacent to seating in assembly areas*. Handrails shall comply with 4.26 and shall have the following features:

(1) Handrails shall be provided along both sides of ramp segments. The inside handrail on switchback or dogleg ramps shall always be continuous.

(2) If handrails are not continuous, they shall extend at least 12 in (305 mm) beyond the top and bottom of the ramp segment and shall be parallel with the floor or ground surface (see Fig. 17).

(3) The clear space between the handrail and the wall shall be 1 - 1/2 in (38 mm).

(4) Gripping surfaces shall be continuous.

(5) Top of handrail gripping surfaces shall be mounted between 34 in and 38 in (865 mm and 965 mm) above ramp surfaces.

(6) Ends of handrails shall be either rounded or returned smoothly to floor, wall, or post.

(7) Handrails shall not rotate within their fittings.

4.8.6 Cross Slope and Surfaces. The cross slope of ramp surfaces shall be no greater than 1:50. Ramp surfaces shall comply with 4.5.