



BOROUGH OF MOUNT JOY
Lancaster County, Pennsylvania

POLICY

Subject

CURBS AND SIDEWALK

Date of Issue

September 9, 2024

Effective Date

September 9, 2024

Expiration Date

N/A

Amends:

Policy

Rescinds:

N/A

All Personnel

I. PURPOSE

The purpose of the policy and procedure is to establish guidelines for the inspection of existing curbs and sidewalks and determining the conditions requiring replacement or repair of curbs and sidewalks as defined under the Mount Joy Borough Property Maintenance Code as well as Street and Sidewalk Maintenance Program.

II. BACKGROUND

- A. The Mount Joy Borough Property Maintenance Code requires that all Mount Joy Borough property owners maintain their properties in a state of good repair. In the case of this policy, sidewalks, and curbs.
- B. The Mount Joy Borough Ordinance, Chapter 232 Streets and Sidewalks, Section 232-63 Nonconforming Curbs and Sidewalks defines that when a Public Borough Street or PennDOT Street is planned to be reconstructed, the existing sidewalks and curbs shall be surveyed for compliance with the then current ADA standards and the current Borough Inspection specifications.
- C. This policy addresses/defines the physical conditions that warrant the requirement that existing areas of sidewalks and curbs be repaired or replaced.
- D. Those areas of existing sidewalk and curb not in compliance with both Section 232-63 and the current Borough Inspection specifications contained in in this Inspection Policy must be repaired, replaced, or constructed as needed.
- E. If an existing sidewalk or curb does not meet the requirements of both Section 232-63 and this Inspection Policy, it must be replaced to meet current ADA standards.
- F. The Mount Joy Borough Ordinance, Chapter 232 Streets, and sidewalks, Section 232-57 Complaints and Requests for Waivers defines that any complaint asserting violations of the Americans with Disabilities Act standards shall be investigated by the Borough Manager and "case by case" recommendations shall be provided to Borough Council for their final determination.
- G. The Mount Joy Borough Ordinance, Chapter 232 Streets and Sidewalks, Section 232-55 Standards for New Construction of Curbs and Sidewalks defines that when a new curb or sidewalk is to be installed it shall meet current Borough construction standards contained in Section 232-61 and current ADA standards. Therefore, this Policy does not apply to new

construction.

III. DEFINITIONS

- A. Crack: A horizontal or vertical separation of the concrete surface of a single pad. .
- B. Cross Slope: The change in elevation of a single sidewalk pad measured across the width of the sidewalk pad.
- C. Curb Section: Raised or depressed concrete curb minimum 5'-0" in length.
- D. Depression/Sunk: A downward movement measured from the horizontal of a single pad or two adjacent pads.
- E. Grinding: The mechanical process of removing material by abrasive means.
- F. Heave(d): An upward movement measured from the horizontal of a single pad or two adjacent pads.
- G. Multiple Cracks: Four or more individual cracks per individual sidewalk pad.
- H. Running Slope: The change in elevation of a single sidewalk pad measured in the direction of pedestrian travel of the sidewalk pad.
- I. Sidewalk Pad: Sidewalk section 4'-0" wide and 5'-0" in length separated by either a control joint or an expansion joint.
- J. Spalling: Fragmentation/degradation of concrete surface where the surface peels, pops, or flakes off.

IV. PROCEDURES

A. SIDEWALKS

1. CRACKS

a. Vertical Separation

If a crack in a sidewalk pad has a vertical separation of more than one quarter inch, the pad shall be replaced. A vertical separation of more than one-quarter inch in height between sidewalk pads can be ground to correct the vertical separation. The maximum vertical separation that may be corrected with grinding will be two inches, however in no case shall more than one-half the thickness of the pad be ground to correct the vertical separation. All slopes produced by the grinding of pads shall comply with the current United States Americans with Disabilities Act and all regulations adopted pursuant thereto.

b. Horizontal Separations-

- (1) A crack in a sidewalk pad or between adjacent sidewalk pads with a horizontal separation of more than one-half inch shall be replaced.
- (2) Pads with multiple cracks shall be replaced.
- (3) Exceptions:
 - i. If the horizontal separation measures one-half inch between two sidewalk pads or between the sidewalk pad and curb and is caused by missing or disintegrated expansion joint material, the horizontal separation may be corrected with the installation of new one-half inch thick expansion material. The expansion material must meet the specifications in the current Borough Ordinance. The crack will be sealed with a suitable concrete caulk material.
 - ii. A horizontal separation of less than one-half inch may be repaired by saw cutting to provide a clean edge on each side of the separation and crack sealed with a suitable concrete caulk material according to manufacturer's directions. The surface shall be finished flush with the existing surface, smooth and devoid of trip hazards. If, after saw cutting the horizontal separation measures one-half inch the horizontal separation will be filled with new one-half inch thick expansion material. The expansion material must meet the specifications of the current

Borough Ordinance. The crack will then be sealed with a suitable concrete caulk material according to the manufacturer's directions. A sidewalk section having a horizontal separation of more than one-half inch shall be replaced.

2. SPALLING AND CHIPPING

- a. Pads with spalling or chipping over 50% or more of the Surface shall be replaced. Pads with less than 50% spalled or chipped surface may be repaired with a suitable patching material. The patching material shall be applied according to the manufacturer's directions and shall be finished to provide a smooth surface devoid of trip hazards. The pad shall be replaced if the patching material fails producing a vertical separation of one-quarter inch or more or a horizontal separation of more than one-half inch. Patching over an existing patch is not permitted. Use of an asphalt patch on an existing concrete sidewalk is not permitted.

3. CROSS SLOPE

- a. Existing cross slope shall not exceed 5.00 % for any distance.
(1) Exception: Cross slope on sidewalk crossing driveway may be maximum of 8.33%.

4. RUNNING SLOPE

- a. Running slope shall not exceed 8.33% for any distance except when immediately approaching or immediately after crossing a driveway where it can be a maximum of 11.00%.
(1) Exception: Running slope can be the same as the adjacent road running slope.
- b. Running slope across a driveway shall not exceed the maximum of 8.33% of the running slope of the adjacent street.

5. COMBINATION CROSS SLOPE AND RUNNING SLOPE

- a. When immediately approaching, crossing, and/or departing a driveway for a distance not to exceed 28 feet the mathematical sum of the cross slope and the running slope shall not exceed 16 %. Paragraphs III.A. 3 and III.A.4 apply.

6. SIDEWALKS ADJACENT TO STEEP SLOPE STREETS.

- a. Sidewalks adjacent to steep slope streets may match the slope of the street.

7. HEAVING OR DEPRESSION

- a. Heaving or depression in the sidewalk due to tree roots or any other reason with a vertical change in elevation greater than 4 inches upward or downward is considered a tripping hazard and will require repair or replacement.

8. SIDEWALK SURFACE FINISH

- a. Sidewalk surface shall be light broom finish running with the cross slope.

B. CURBS

2. HEAVED, SHOVED, PUSHED CURB SECTIONS-

- a. Curbs that are heaved, shoved, or pushed more than one inch out of parallel alignment of the vertical face of the curb shall be replaced.

3. CRACKS

- a. A curb section shall be replaced if the crack separation is more than one-half inch.
- b. Curb sections with multiple cracks shall be replaced.
- c. Partial curb section replacement- Partial curb section replacement is permitted as long as the section remaining, and the new section are each a minimum of five feet in length and there is an expansion joint at each end. Expansion joints shall be installed every twenty feet.
- d. Vertical Separations- If the crack in the curb creates a vertical separation of more than one-quarter inch, the curb shall be replaced or the uneven surface ground to correct the vertical separation. The maximum vertical separation that may be corrected with grinding will be two inches. All slopes within curb cut areas produced by grinding of pads shall

comply with current United Americans with Disabilities Act and all regulations adopted pursuant thereto.

3. HORIZONTAL SEPERATIONS

- a. A curb with a horizontal crack of more than one-haff inch shall be replaced.
- b. A curb with multiple cracks shall be replaced.
- c. Exceptions:
 - (1) If the horizontal separation measures one-half inch between two curb sections or between the sidewalk and curb and is caused by missing or disintegrated expansion joint material, the horizontal separation may be corrected with the installation of new, one-half inch thick expansion joint material. The expansion joint material must meet the specifications of the current Borough Ordinance. The crack will then be sealed with a suitable concrete caulk material.
 - (2) A horizontal separation of less than one-half inch may be repaired by saw cutting to provide a clean edge on each side of the separation and the crack sealed with a suitable concrete caulk material according to manufacturer's directions. The surface shall be finished smooth and flush with the existing surface. If, after saw cutting, the horizontal separation measures one-half inch, the horizontal separation will be filled with new, one- half inch thick expansion material. The expansion material must meet the specifications of the current Borough Ordinance. The crack will then be sealed with a suitable concrete caulk material according to the manufacturer's directions. A horizontal separation of more than one-half inch shall be replaced.

4. SPALLING

- a. Curbs with spalling over 50% or more of the surface shall be replaced. Pads with less than 50% spalled surface may be repaired with a suitable patching material. The patching material shall be applied according to the manufacturer's directions and shall be finished to provide a smooth surface devoid of trip hazards. The pad shall be replaced if the patching material fails producing a depression greater than one-quarter inch or more/or a horizontal separation crack of more than one-half inch. Patching over an existing patch is not permitted. Use of an asphalt patch on an existing concrete curb is not permitted.

5. CHIPPED CURBS

- a. Chipped areas in curbs two inches or less deep from the existing surface at the deepest point and two feet or less in length may be patched with a suitable patching material. The patching material shall be applied according to the manufacturer's directions and shall be finished to provide a smooth surface.
- b. In cases where the chipped area in is greater than two inches deep at the deepest point from the existing damaged surface and/or greater than two feet in length, the curb must be replaced.
- c. Partial curb section replacement- Partial curb section replacement is permitted as long as the section remaining, and the new section are each a minimum of five feet in length and there is an expansion joint at each end. Expansion joints shall be installed every twenty-five feet.

6. CURB REVEAL

- a. If a curb does not have a minimum exposed surface or reveal of 5 1/2 inches, it shall be replaced. If, however, in the opinion of the Borough Manager, milling of the existing street surface can be satisfactorily achieved, the minimum reveal may be reduced to the extent of the proposed milling depth.
- b. At a depressed curb, the curb reveal shall allow stormwater runoff to enter an inlet box without ponding.

V. DISTRIBUTION:

All personnel.

VI. RESPONSIBILITY:

It is the responsibility of all employees and elected officials to become familiar with this policy & procedure.

VII. REVIEW:

This policy shall be reviewed periodically and amended as needed.

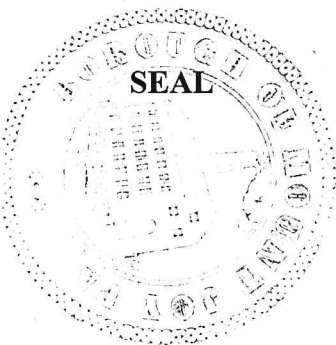
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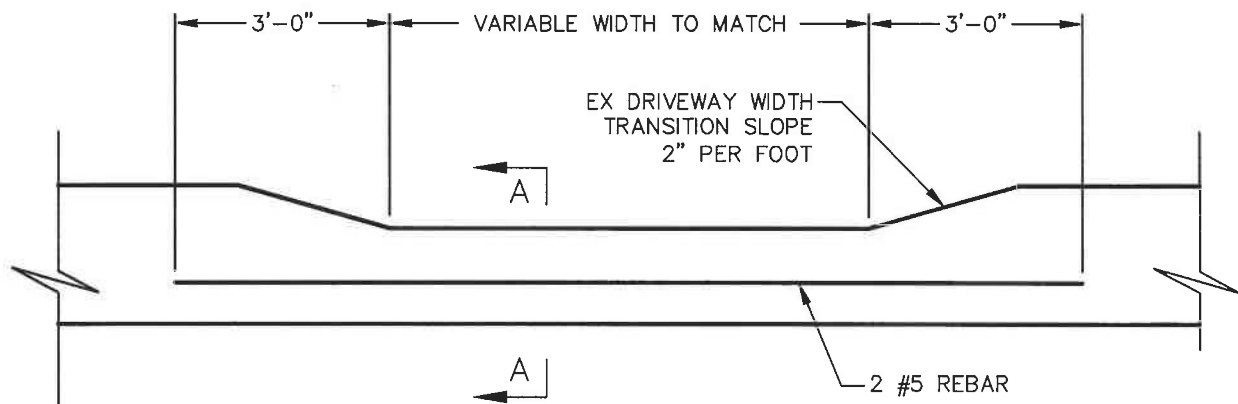
Effective: Immediately

By Order Of:



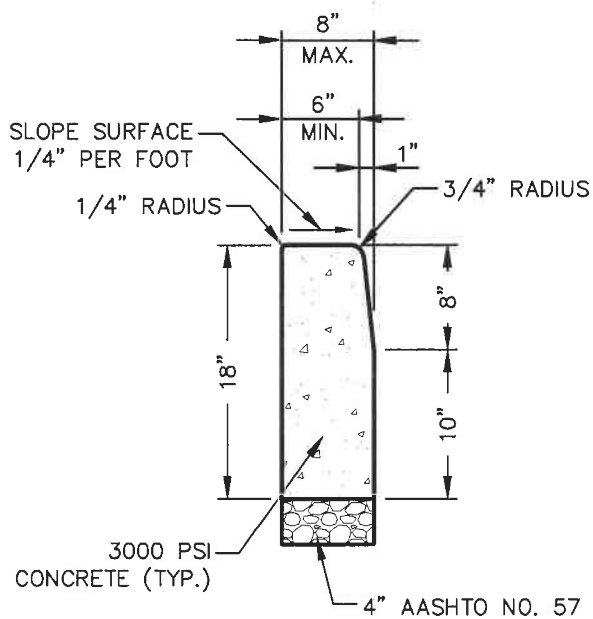
Borough (Assistant) Manager





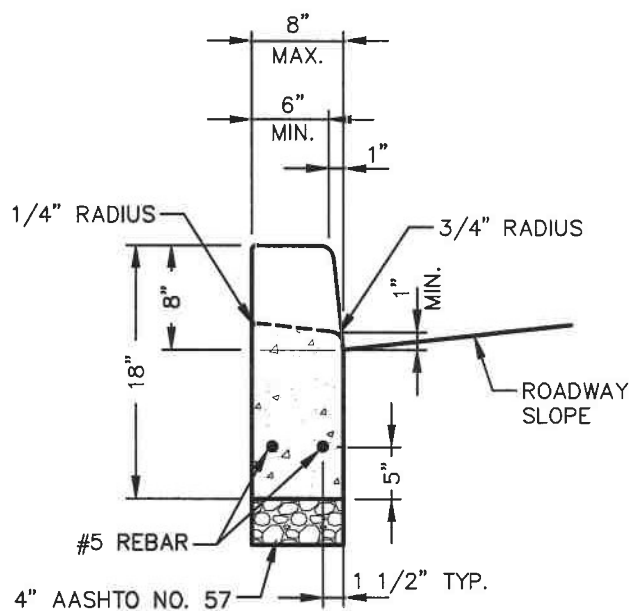
DRIVEWAY CURB CUT DETAIL

NOT TO SCALE



TYPICAL CROSS SECTION

NOT TO SCALE



SECTION A-A

NOT TO SCALE

CURB AND SIDEWALK

DETAILS AND SPECIFICATIONS

Mount Joy Borough

Lancaster County

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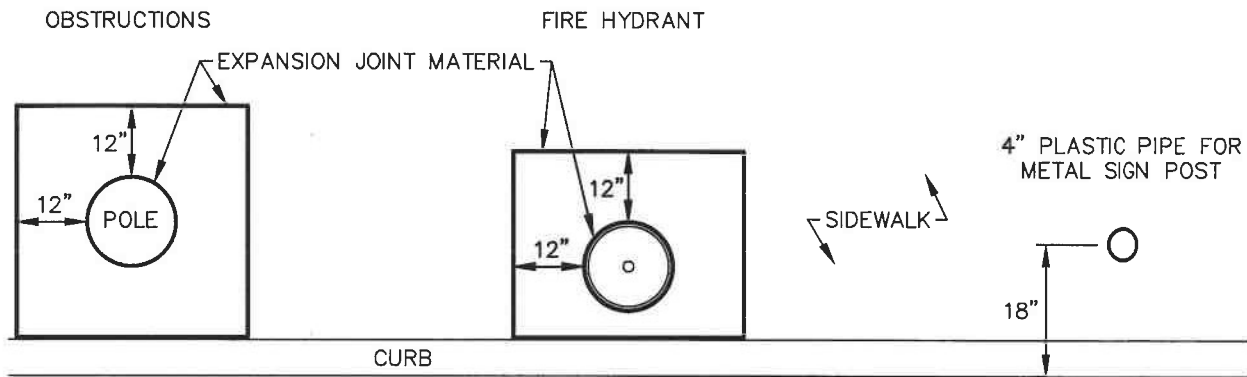
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9531 Richard Ln., Suite 111, Mechanicsburg, PA 17085
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DATE: JUNE 2024

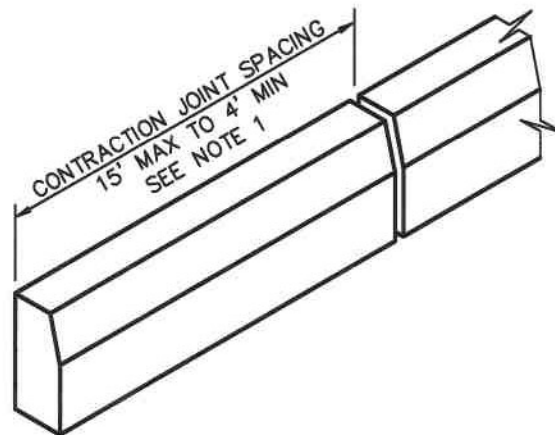
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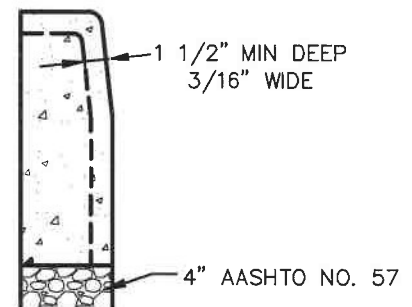
CONTRACTION JOINT AT OBSTRUCTIONS

NOT TO SCALE



NOTES:

1. SPACE CONTRACTION JOINTS IN UNIFORM LENGTHS AND SECTIONS
2. PLACE REMOLDED EXPANSION JOINT FILLER MATERIAL AT STRUCTURES AND AT THE END OF THE WORK DAY. CUT MATERIAL TO CONFORM TO AREA ADJACENT TO CURB OR TO CONFORM TO CROSS-SECTIONAL AREA OF CURB



CONTRACTION JOINT

NOT TO SCALE

CURB AND SIDEWALK

DETAILS AND SPECIFICATIONS

RETTEW

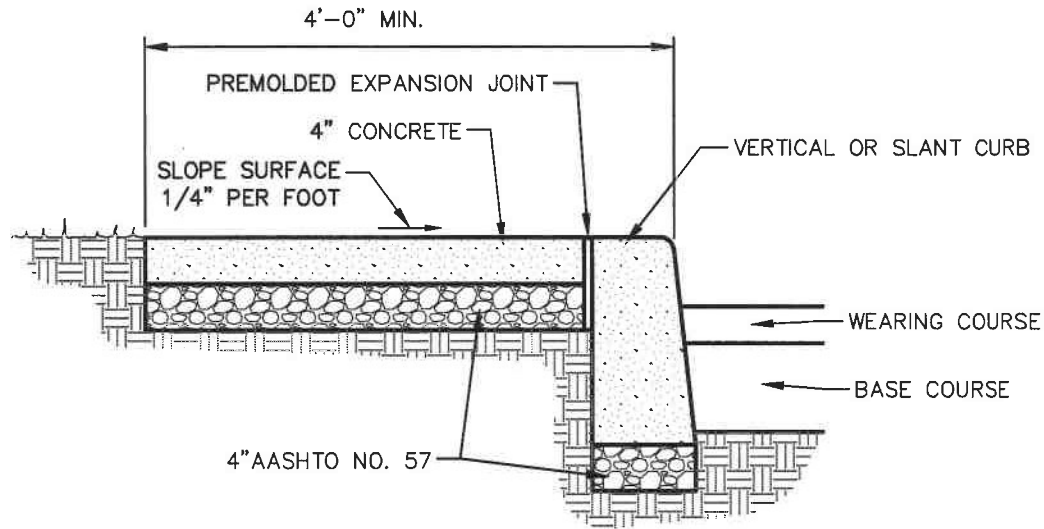
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TYPICAL SECTION THROUGH CURB AND SIDEWALK

NOT TO SCALE

NOTE:

1. SIDEWALKS SHALL HAVE A UNIFORM FALL OF 1/4" TO THE FOOT FROM THE BACK EDGE OF THE SIDEWALK TOWARD THE CURB. THE PERVIOUS MATERIAL STRIP BETWEEN THE SIDEWALK AND THE CURB SHALL CONFORM TO THE SAME SLOPE.
2. PREMOLDED RUBBER EXPANSION JOINT MATERIAL (AASHTO M213), PREMOLDED FIBER EXPANSION JOINT MATERIAL (AASHTO M213 OR PREMOLDED ASPHALT IMPREGNATED EXPANSION JOINT MATERIAL (AASHTO M153), NOT LESS THAN 1/2" IN THICKNESS, EXTENDING THE FULL WIDTH AND DEPTH OF THE CONCRETE SLAB SHALL BE PLACED NO MORE THAN EVERY 15 LINEAL FEET, AT THE BEGINNING AND END OF A RADIUS, AND AT A CHANGE IN HORIZONTAL ALIGNMENT OF PROPERTY LINES. UTILITY BOXES, INCLUDING BUT NOT LIMITED TO WATER SHUTOFF, SANITARY SEWER VENT, NATURAL GAS SHUTOFF, AND ELECTRIC METER, SHALL BE WITHIN A SECTION OF CONCRETE MEASURING FIVE LINEAL FEET BETWEEN EXPANSION JOINTS. CONSTRUCTION JOINTS SHALL BE PLACED AT A MAXIMUM DISTANCE OF FIVE LINEAL FEET. CONSTRUCTION JOINTS MAY BE HAND-TOOLED OR SAW CUT TO A DEPTH OF 1/2".
3. SIDEWALKS ACROSS DRIVEWAYS SHALL BE CONSTRUCTED WITHOUT ANY STEP OR BREAK IN GRADE FROM AN ABUTTING SIDEWALK OR, AT A MINIMUM, SHALL CONFORM TO THE REQUIREMENTS OF THE ADA. THE SIDEWALK ACROSS THE DRIVEWAY APRON SHALL BE SIX INCH THICK CONCRETE AND ON A FOUR INCH THICK LAYER OF 2B (AASHTO NO.57) CRUSHED STONE WITH REINFORCING MESH.

CURB AND SIDEWALK

DETAILS AND SPECIFICATIONS

Mount Joy Borough

Lancaster County

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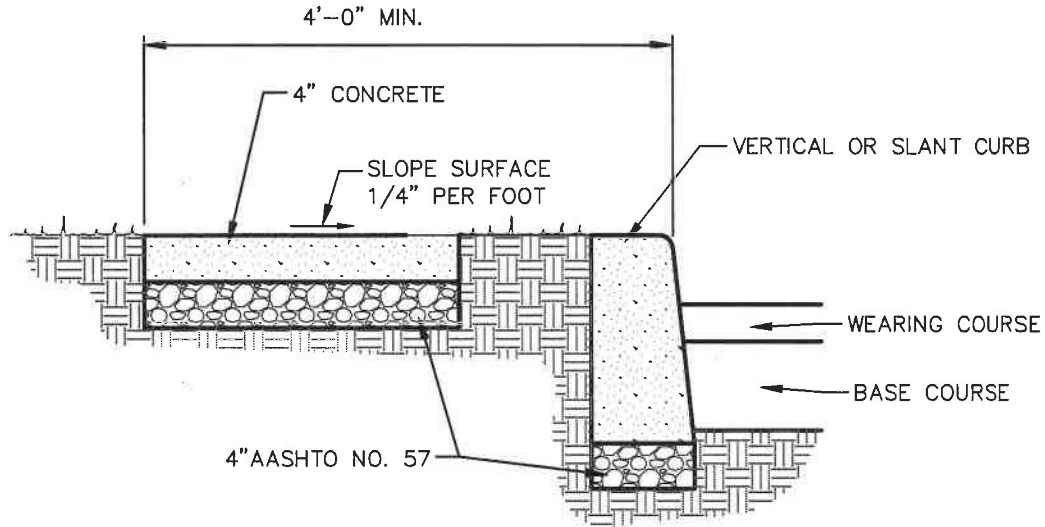
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TYPICAL SECTION THROUGH SEPARATED CURB AND SIDEWALK

NOT TO SCALE

NOTE:

1. SIDEWALKS SHALL HAVE A UNIFORM FALL OF 1/4" TO THE FOOT FROM THE BACK EDGE OF THE SIDEWALK TOWARD THE CURB. THE PERVIOUS MATERIAL STRIP BETWEEN THE SIDEWALK AND THE CURB SHALL CONFORM TO THE SAME SLOPE.
2. PREMOLDED RUBBER EXPANSION JOINT MATERIAL (AASHTO M213), PREMOLDED FIBER EXPANSION JOINT MATERIAL (AASHTO M213 OR PREMOLDED ASPHALT IMPREGNATED EXPANSION JOINT MATERIAL (AASHTO M153), NOT LESS THAN 1/2" IN THICKNESS, EXTENDING THE FULL WIDTH AND DEPTH OF THE CONCRETE SLAB SHALL BE PLACED NO MORE THAN EVERY 15 LINEAL FEET, AT THE BEGINNING AND END OF A RADIUS, AND AT A CHANGE IN HORIZONTAL ALIGNMENT OF PROPERTY LINES. UTILITY BOXES, INCLUDING BUT NOT LIMITED TO WATER SHUTOFF, SANITARY SEWER VENT, NATURAL GAS SHUTOFF, AND ELECTRIC METER, SHALL BE WITHIN A SECTION OF CONCRETE MEASURING FIVE LINEAL FEET BETWEEN EXPANSION JOINTS. CONSTRUCTION JOINTS SHALL BE PLACED AT A MAXIMUM DISTANCE OF FIVE LINEAL FEET. CONSTRUCTION JOINTS MAY BE HAND-TOOLED OR SAW CUT TO A DEPTH OF 1/2".
3. SIDEWALKS ACROSS DRIVEWAYS SHALL BE CONSTRUCTED WITHOUT ANY STEP OR BREAK IN GRADE FROM AN ABUTTING SIDEWALK OR, AT A MINIMUM, SHALL CONFORM TO THE REQUIREMENTS OF THE ADA. THE SIDEWALK ACROSS THE DRIVEWAY APRON SHALL BE SIX INCH THICK CONCRETE AND ON A FOUR INCH THICK LAYER OF 2B (AASHTO NO.57) CRUSHED STONE WITH REINFORCING MESH.

CURB AND SIDEWALK

DETAILS AND SPECIFICATIONS

Mount Joy Borough

Lancaster County

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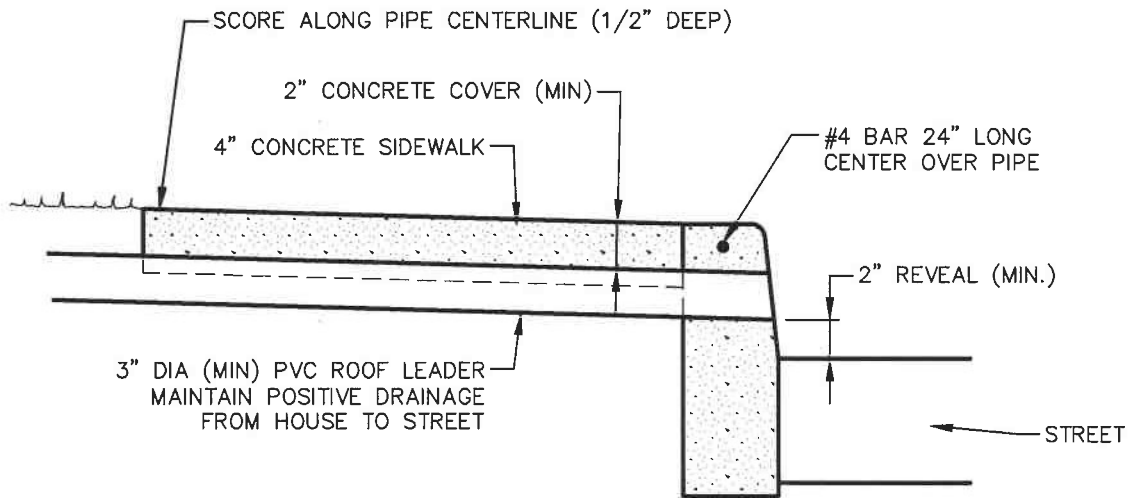
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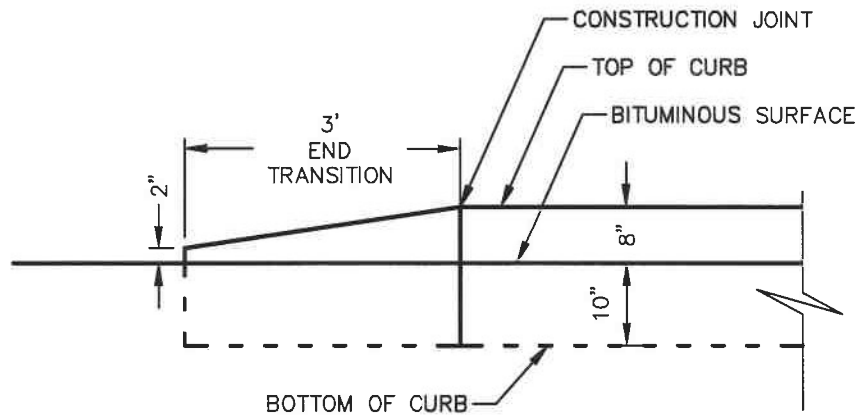


NOTE:

1. USE ROOF LEADER WITH VERTICAL CURB ONLY

ROOF LEADER UNDER SIDEWALK

NOT TO SCALE



END CURB TRANSITION DETAIL

NOT TO SCALE

CURB AND SIDEWALK

DETAILS AND SPECIFICATIONS

Mount Joy Borough

Lancaster County

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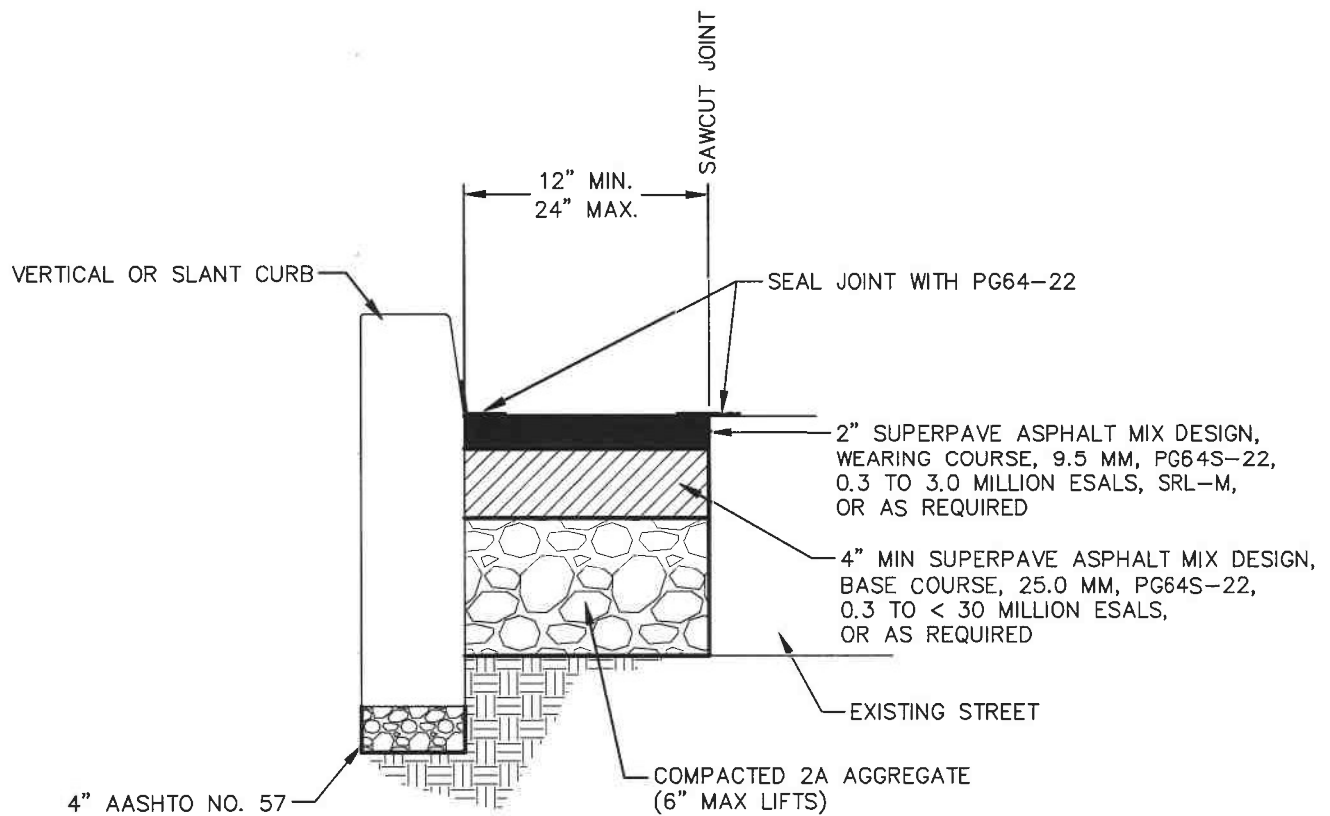
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PAVEMENT RESTORATION FOR CURB REPLACEMENT

NOT TO SCALE

CURB AND SIDEWALK

DETAILS AND SPECIFICATIONS

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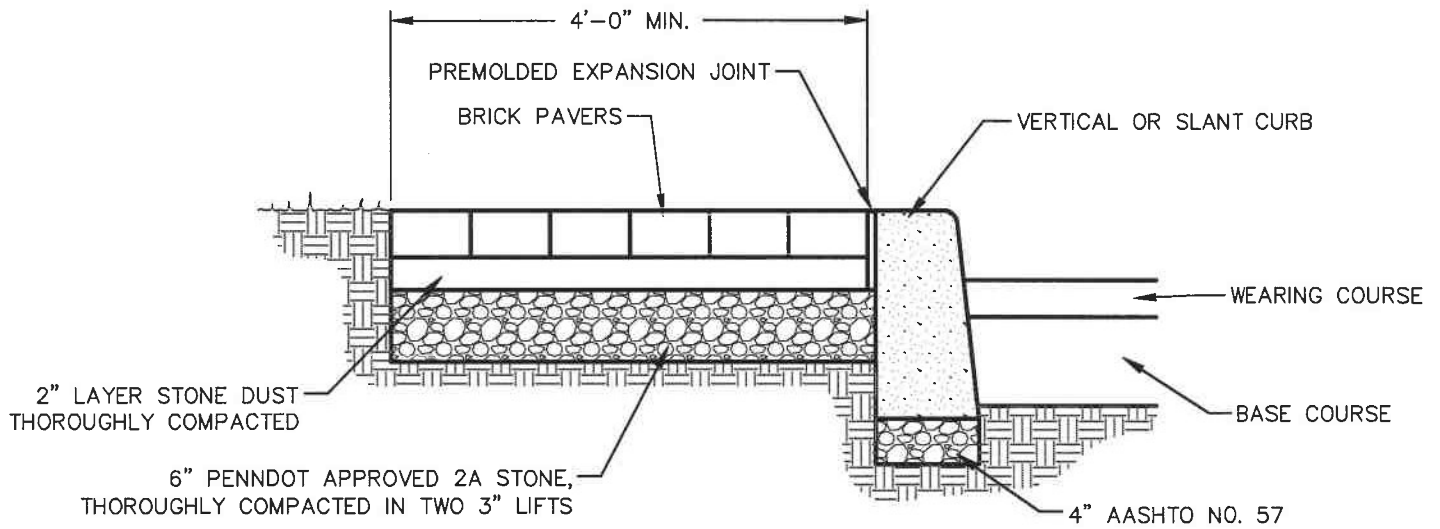
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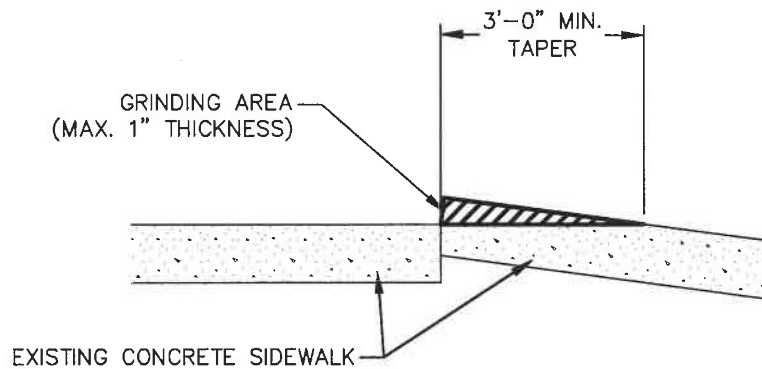


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TYPICAL SECTION THROUGH CURB AND BRICK SIDEWALK

NOT TO SCALE



1/4" THICKNESS = 3" MIN. TAPER
 1/2" THICKNESS = 6" MIN. TAPER
 3/4" THICKNESS = 9" MIN. TAPER
 1" THICKNESS = 12" MIN. TAPER

GRINDING DETAIL

NOT TO SCALE

CURB AND SIDEWALK

DETAILS AND SPECIFICATIONS

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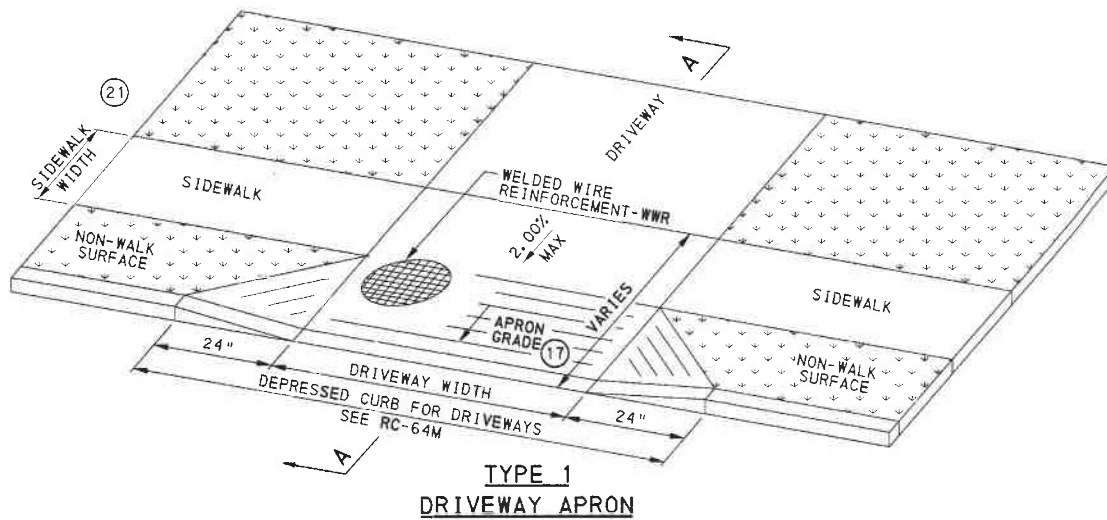
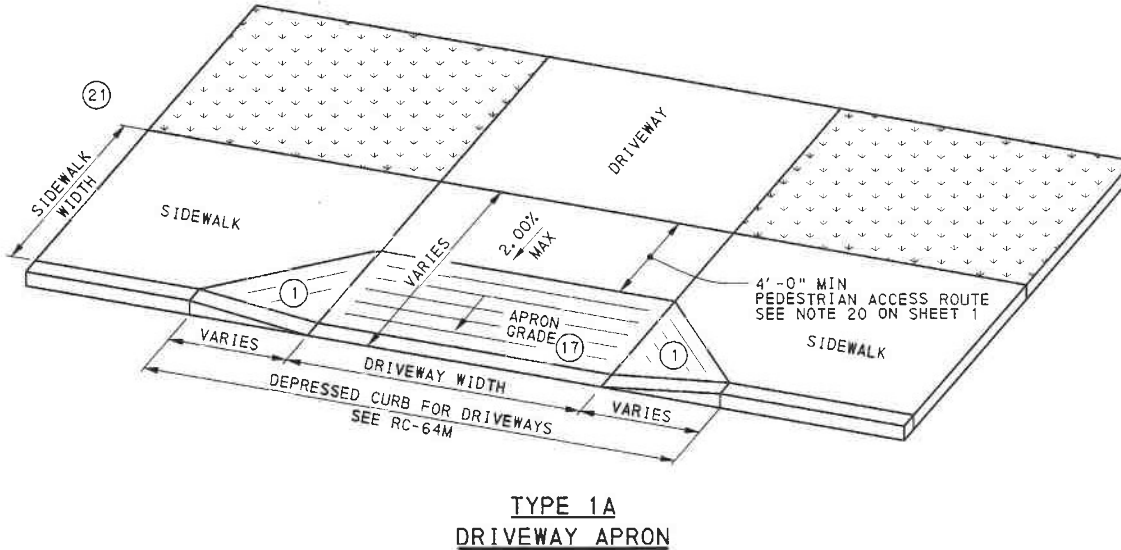
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NOTE:

ALL ADA CURB RAMPS TO BE
CONSTRUCTED IN ACCORDANCE
WITH THE LATEST VERSION OF
PENNDOT PUBLICATION 408
AND PUBLICATION 72M



- (1) SIDE FLARES 10.00% MAX SLOPE.
- (17) 8.00% MAX CHANGE IN GRADE BETWEEN ROAD SURFACE AND DRIVEWAY.
- (21) MINIMUM SIDEWALK WIDTH 5'-0" (SEE NOTE 20, SHEET 1).

CURB AND SIDEWALK

DETAILS AND SPECIFICATIONS

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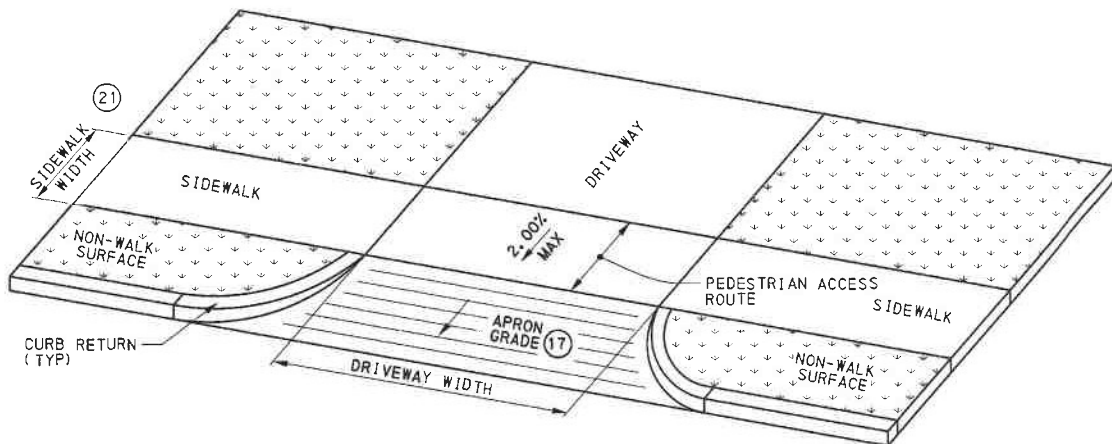
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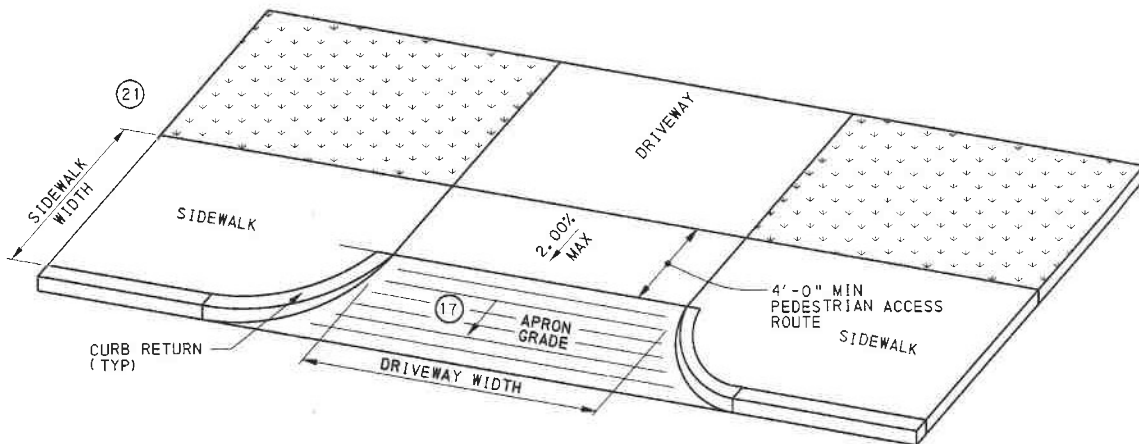
NOTE:

ALL ADA CURB RAMPS TO BE
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AND PUBLICATION 72M

- (17) 8.00% MAX CHANGE IN GRADE BETWEEN ROAD
SURFACE AND DRIVEWAY.
(21) MINIMUM SIDEWALK WIDTH 5'-0"
(SEE NOTE 20, SHEET 1)



**TYPE 2
DRIVEWAY APRON**



**TYPE 2A
DRIVEWAY APRON**

CURB AND SIDEWALK

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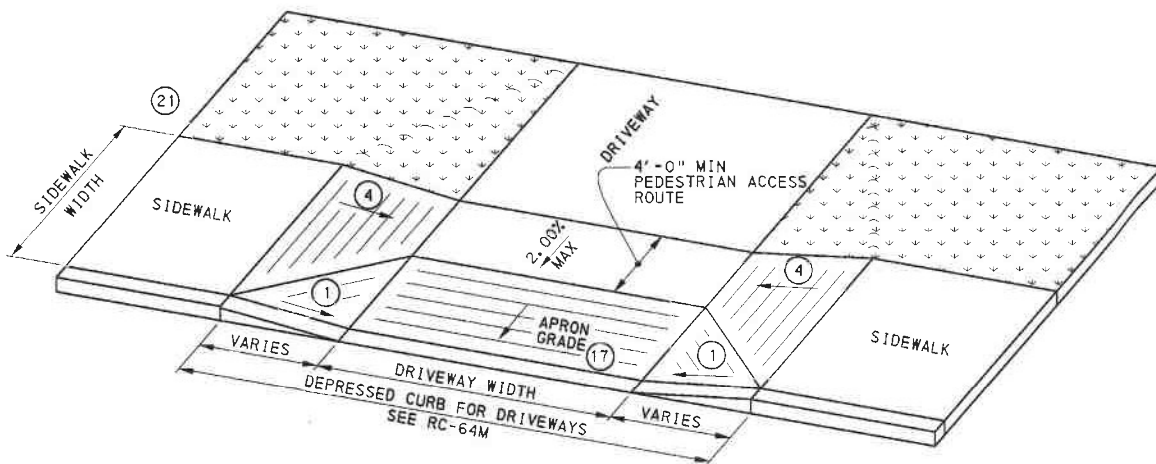
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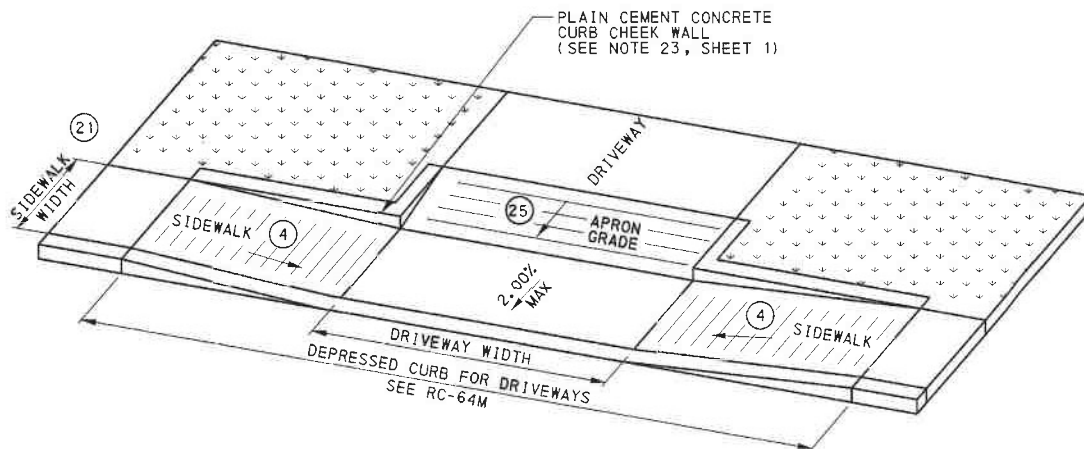
NOTE:

ALL ADA CURB RAMPS TO BE
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PENNDOT PUBLICATION 408
AND PUBLICATION 72M

- ① SIDE FLARES 10.00% MAX SLOPE.
- ④ 8.33% MAX RAMP SLOPE, SEE NOTE 8 SHEET 1.
- ①7 8.00% MAX CHANGE IN GRADE BETWEEN ROAD
SURFACE AND DRIVEWAY.
- ②1 MINIMUM SIDEWALK WIDTH 5'-0"
(SEE NOTE 20, SHEET 1)
- ②5 8.00% MAX CHANGE IN GRADE BETWEEN
DRIVEWAY SURFACE AND SIDEWALK.



**TYPE 3
DRIVEWAY APRON**



**TYPE 3A
DRIVEWAY APRON**

CURB AND SIDEWALK

DETAILS AND SPECIFICATIONS

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ALL ADA CURB RAMPS TO BE
CONSTRUCTED IN ACCORDANCE
WITH THE LATEST VERSION OF
PENNDOT PUBLICATION 408
AND PUBLICATION 72M

-
- A detailed perspective diagram of a driveway apron and sidewalk layout. The diagram shows a central rectangular area labeled 'DRIVEWAY' with a '2.00% MAX' slope. This area is bordered by 'SIDEWALK' sections on the left and right, which are filled with a pattern of small arrows indicating drainage. The front edge of the driveway features a 'DEPRESSED CURB FOR DRIVEWAYS' with a width of 'VARIES' and a reference to 'SEE RC-64M'. The apron area is labeled 'APRON GRADE (17)' and has a width of 'VARIES'. The overall width of the sidewalk area is labeled 'SIDEWALK WIDTH (21)'. The diagram also shows a 'SIDEWALK' section on the left with a width of 'VARIES' and a 'SIDEWALK' section on the right with a width of 'VARIES'. The diagram includes various dimension lines and labels such as 'VARIES', 'SIDEWALK WIDTH (21)', 'DRIVEWAY', '2.00% MAX', 'APRON GRADE (17)', 'DEPRESSED CURB FOR DRIVEWAYS', 'SEE RC-64M', and 'SIDEWALK'.

TYPE 4
DRIVEWAY APRON

Mount Joy Borough

Lancaster County



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