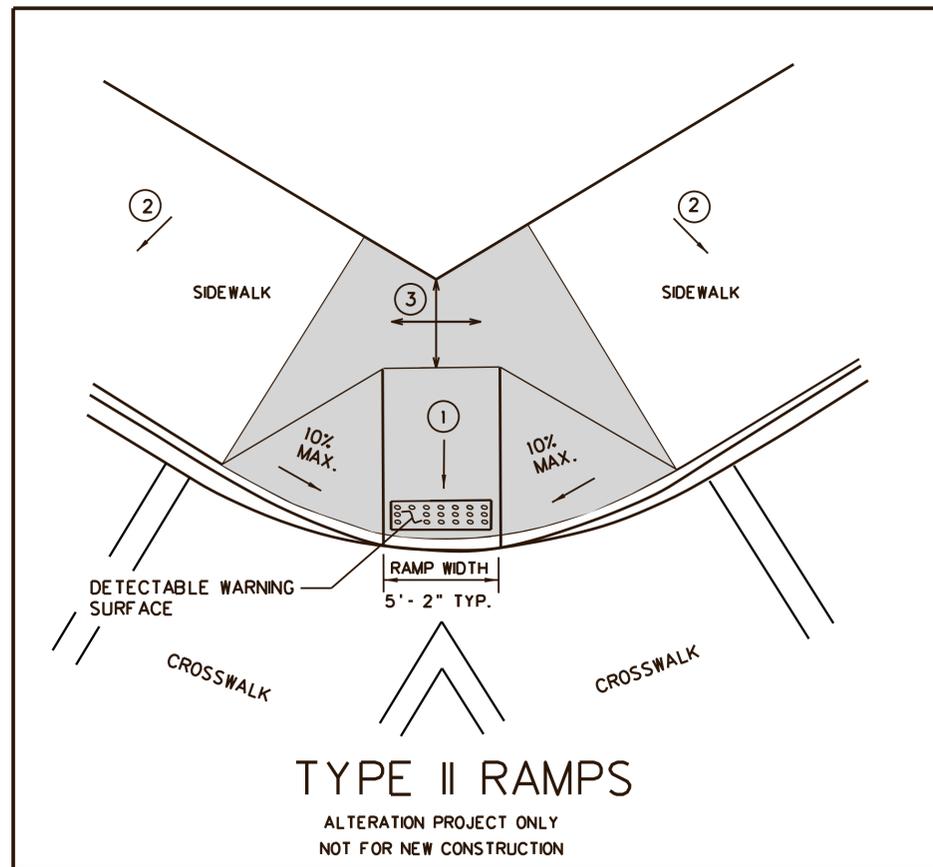


**TYPE I RAMPS  
SHOWN AT INTERSECTION**  
• SEPARATE PAY ITEMS



**TYPE II RAMPS**  
ALTERATION PROJECT ONLY  
NOT FOR NEW CONSTRUCTION

- ① 8.33% (12:1) MAX. RAMP SLOPE, INCLUDING CONSTRUCTION TOLERANCE.
- ② CROSS SLOPE: 2.00% MAX. INCLUDING CONSTRUCTION TOLERANCE.
- ③ CURB RAMPS REQUIRE A (4'-0") MINIMUM TURNING SPACE WITH A MAXIMUM CROSS SLOPE AND LONGITUDINAL SLOPE OF 2.00% WHERE PEDESTRIANS PERFORM TURNING MANEUVERS. SEE NOTE REGARDING OBSTRUCTIONS ON SHEET 1 OF 3. SLOPE TO DRAIN TO CURB.

PAY LIMITS FOR CURB RAMPS

**NOTES**

RAMP CONCRETE SHALL MEET THE REQUIREMENTS OF SECTION 609 OF THE SPECIFICATIONS. RAMP SURFACE SHALL INCLUDE A "DETECTABLE WARNING SURFACE" (SEE PVT7 SHT. 3 OF 3) AS SHOWN FOR EACH RAMP TYPE. A COARSE BROOM FINISH, TRANVERSE TO FLARE SLOPES, OR EQUAL NON-SKID FINISH SHALL BE PROVIDED ON CONCRETE SURFACES.

NORMAL GUTTER FLOW LINE AND PROFILE SHALL BE MAINTAINED THROUGH THE RAMP AREA, UNLESS OTHERWISE SHOWN OR SPECIFIED.

1/4" PREFORMED EXPANSION JOINT FILLER, MEETING THE REQUIREMENTS OF SECTION 609 OF THE SPECIFICATIONS, SHALL BE PLACED AT ALL LOCATIONS WHERE RAMP CONTACTS CURB, GUTTER, OR CONCRETE PAVEMENT. WHEN THE RAMP IS POURED SEPARATELY FROM THE SIDE WALK, THE EXPANSION MATERIAL SHALL BE PLACED AT ALL LOCATIONS WHERE THE NORMAL SIDEWALK AND THE RAMP ABUT.

DRAINAGE STRUCTURES SHALL NOT BE PLACED IN LINE WITH RAMPS. LOCATION OF THE RAMP SHALL TAKE PRECEDENCE OVER LOCATION OF THE DRAINAGE STRUCTURE, EXCEPT WHERE EXISTING STRUCTURES ARE BEING UTILIZED FOR CONSTRUCTION OF NEW RAMPS.

ANY GRATE IN PEDESTRIAN AREAS SHALL HAVE OPENINGS NOT GREATER THAN 1/2" AND SHALL BE PLACED WITH LONG DIMENSION OF OPENING PERPENDICULAR TO THE DIRECTION OF PEDESTRIAN TRAVEL.

IF THE 8.33% (12:1) SLOPE CANNOT BE OBTAINED DUE TO GRADE OF THE ADJACENT ROADWAY, THE SLOPED PORTION OF THE RAMP SHALL BE EXTENDED TO A MAXIMUM LENGTH OF 15'-0".

A TURNING SPACE AS DEPICTED IN THE DETAILS SHALL BE PROVIDED AT THE TOP OF APPROPRIATE CURB RAMPS. THE TURNING SPACE SHALL HAVE A MINIMUM WIDTH OF 4 FT. WHEN NO OBSTRUCTIONS EXIST AT THE BACKSIDE OF THE LANDING. WHEN AN OBSTRUCTION EXISTS SUCH AS A BUILDING, LIGHT POLE, ETC. THE MINIMUM DIMENSION OF THE LANDING SHALL BE 5 FEET.

CURB RAMP WIDTH SHALL MATCH SIDEWALK WIDTH PLUS CLEARANCE. TYPICAL SIDEWALK WIDTH IS 5'. MINIMUM WIDTH IS 4'.

THE TYPE OF RAMP TO BE USED SHALL BE AS SPECIFIED ON THE PLANS. THE FOLLOWING CAN BE CONSIDERED GUIDELINES IN SELECTING RAMP TYPES, BUT ARE INCLUDED HERE FOR INFORMATION ONLY.

**RAMP TYPES**

- TYPE I (SHT. 1) FOR USE WHERE SIDEWALK EXTENDS TO STREET AND WHERE SIDEWALK WIDTH IS ADEQUATE FOR RAMP AND TURNING SPACE.
- TYPE II (SHT. 1) RAMP SHALL ONLY BE USED ON ALTERATION PROJECTS WHERE TWO SEPARATE CURB RAMPS CANNOT BE PROVIDED. THE TYPE II CURB IS NOT SUITABLE FOR NEW CONSTRUCTION.
- TYPE III (SHT. 2) PARALLEL RAMPS ARE FOR USE WHEN ADEQUATE SIDEWALK WIDTH FOR BOTH RAMPS AND TURNING SPACE CANNOT BE PROVIDED.
- TYPE IV (SHT. 3) COMBINES ASPECTS OF TYPE I AND TYPE III RAMPS AS NECESSARY. USE WHERE SIDEWALK IS SET BACK FROM STREET AND A GRASS OR LANDSCAPED STRIP IS PROVIDED BETWEEN SIDEWALK AND STREET.

FOR DETECTABLE WARNING SURFACE  
NOTES SEE PVT7 SHT. 3 OF 3

NOT TO SCALE

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
STANDARD DETAIL

**REVISED STANDARD DETAIL**

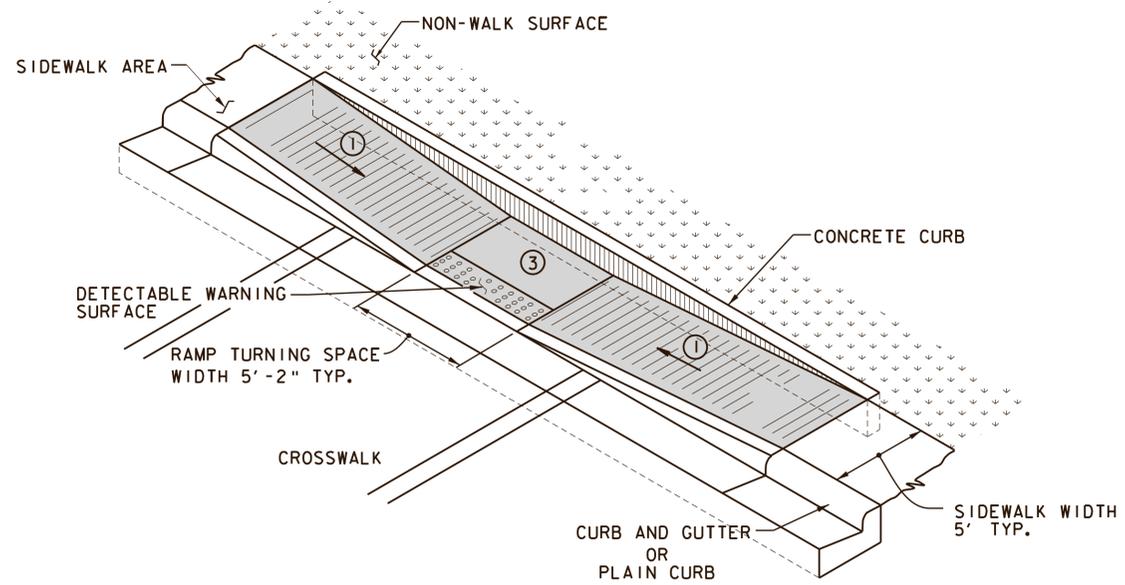
Prepared 7-1-99

REVISION DATE
07/21/10
10/22/13

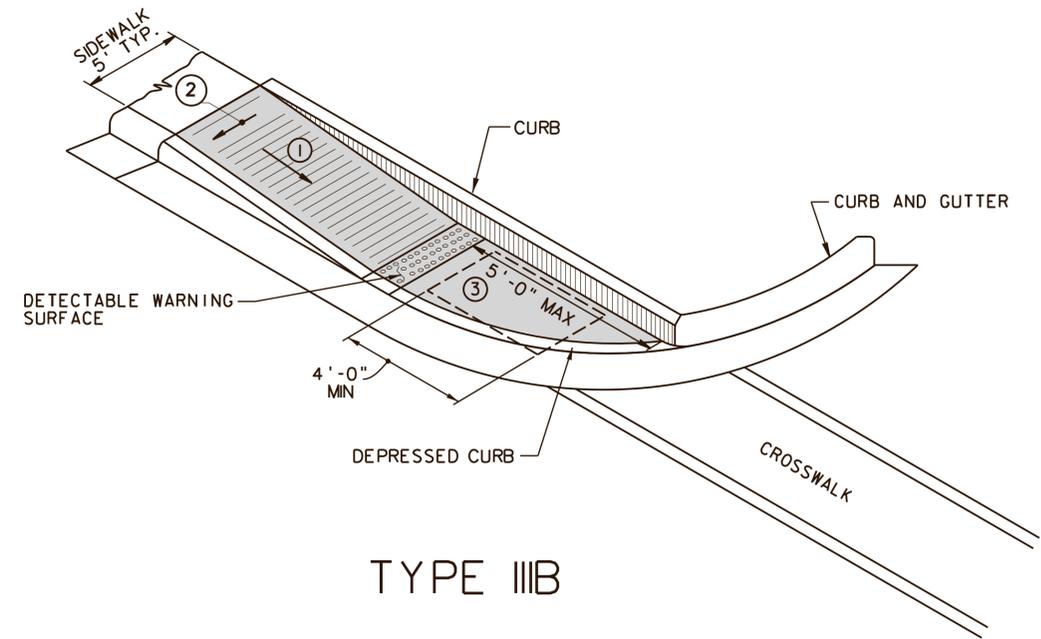
**SIDEWALK RAMPS**

**(SHEET 1 OF 3)**

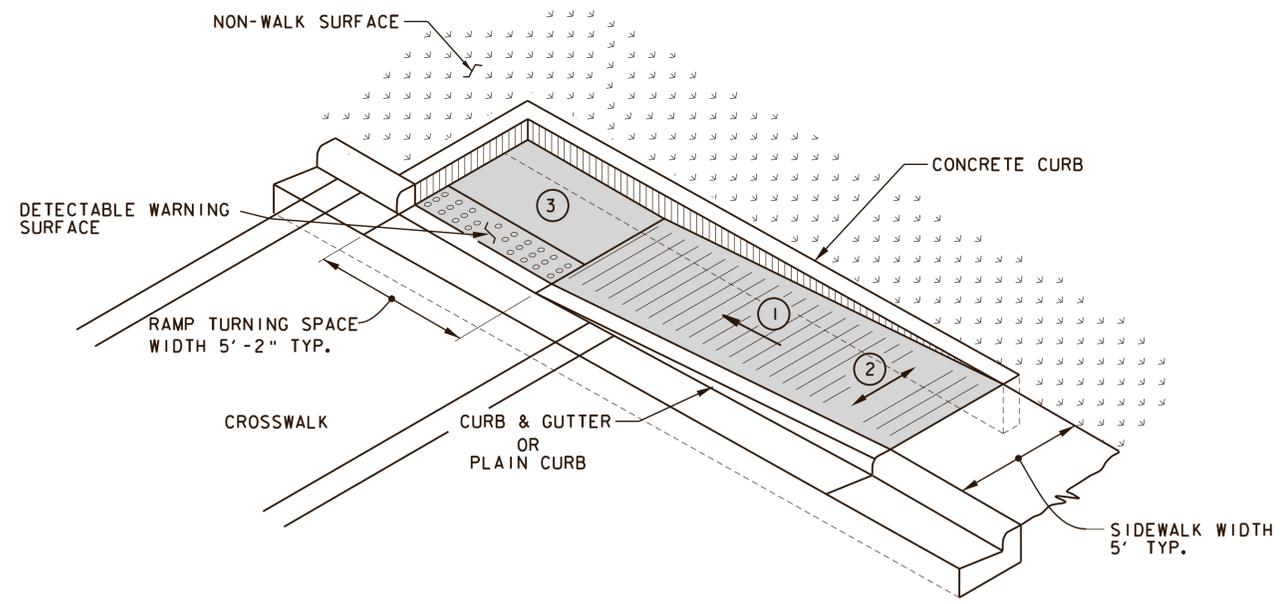
SHEET PVT 7



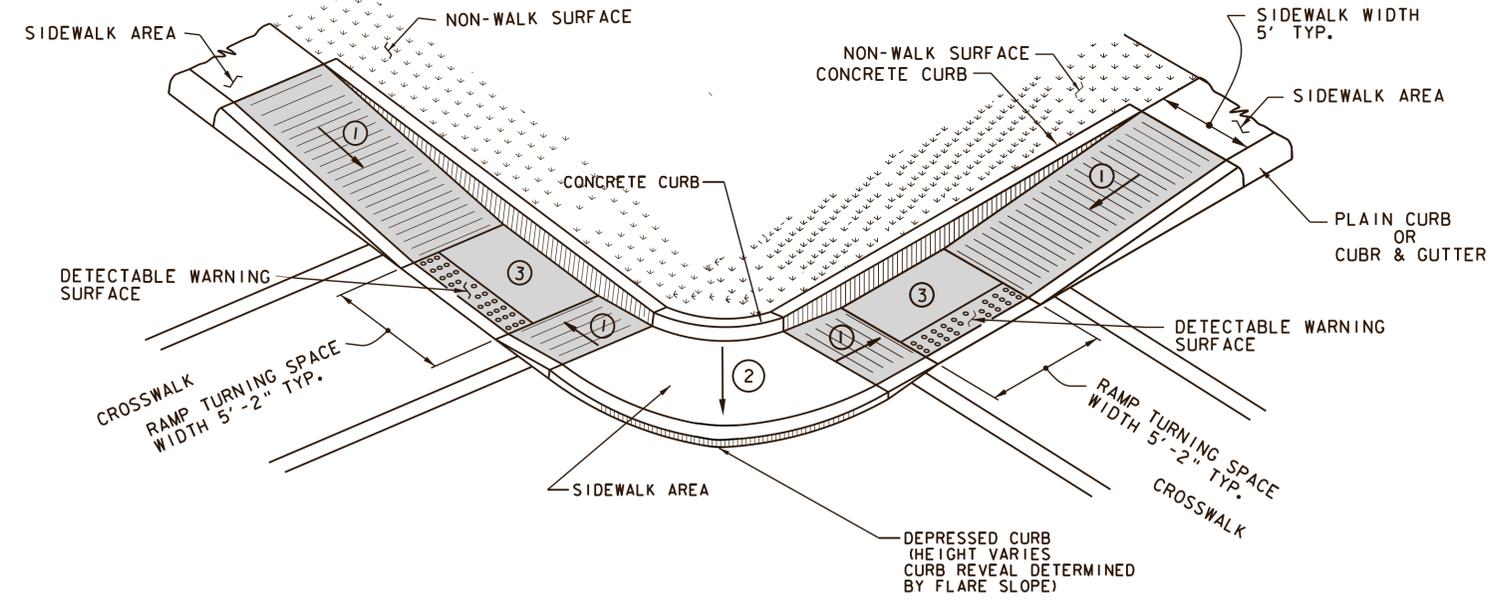
TYPE III



TYPE III B



TYPE III A



TYPE III RAMPS AT INTERSECTION

- ① 8.33% (12:1) MAX. RAMP SLOPE, INCLUDING CONSTRUCTION TOLERANCE.
- ② CROSS SLOPE: 2.00% MAX. INCLUDING CONSTRUCTION TOLERANCE.
- ③ CURB RAMPS REQUIRE A (4'-0") MINIMUM TURNING SPACE WITH A MAXIMUM CROSS SLOPE AND LONGITUDINAL SLOPE OF 2.00% WHERE PEDESTRIANS PERFORM TURNING MANEUVERS. SEE NOTE REGARDING OBSTRUCTIONS ON SHEET 1 OF 3. SLOPE TO DRAIN TO CURB.

PAY LIMITS FOR CURB RAMPS

CURB MAY NOT BE REQUIRED WHEN WALL OR BUILDING IS PRESENT

FOR DETECTABLE WARNING SURFACE NOTES SEE PVT7 SHT. 3 OF 3

NOT TO SCALE

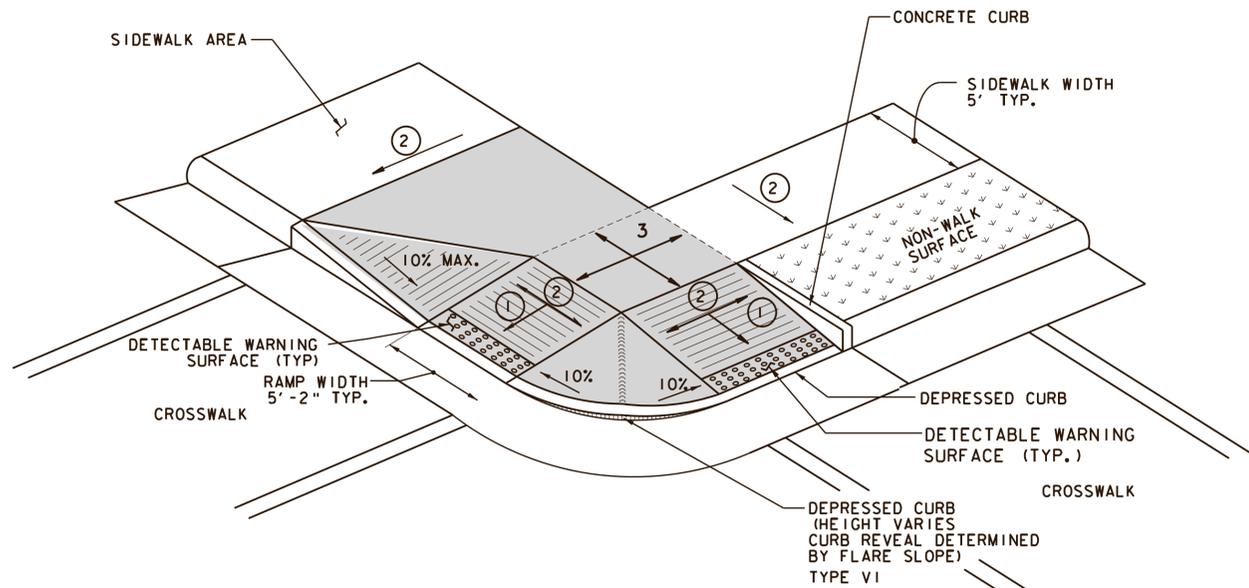
**WEST VIRGINIA DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
STANDARD DETAIL**

**REVISED STANDARD DETAIL**

PREPARED 7-1-99
REVISION DATE
7/21/10
10/22/13

**SIDEWALK RAMPS  
(SHEET 2 OF 3)**

SHEET PVT 7



TYPE I

TYPE IV

TYPE I RAMP AND TYPE IV RAMP SHOWN AT INTERSECTION

\* TWO SEPARATE PAY ITEMS

**NOTES**

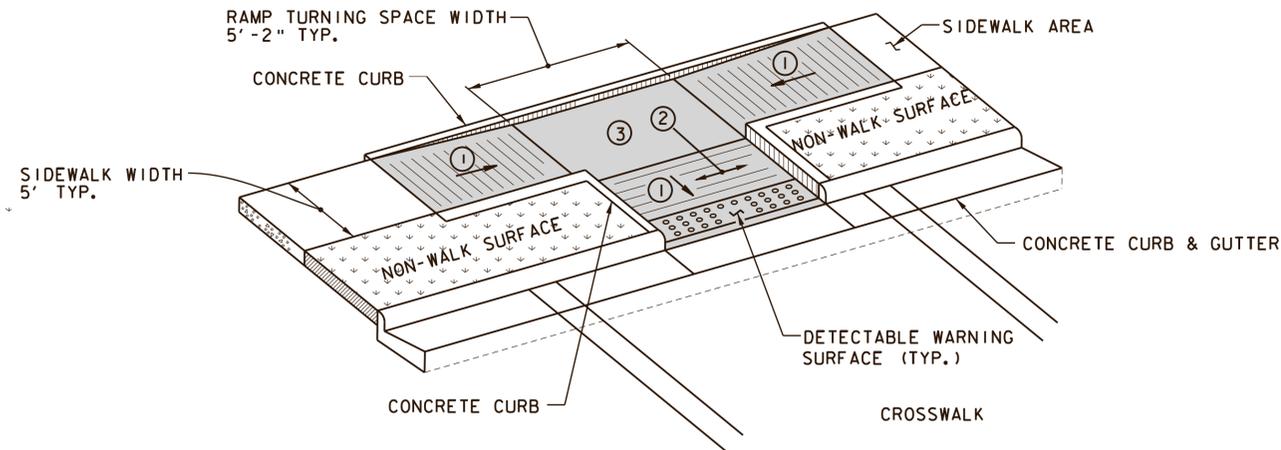
THE APPROPRIATE DETAILS AND NOTES OF STANDARD SHEET PVT7, SHEETS 1 AND 2 SHALL APPLY TO THIS STANDARD SHEET.

DETECTABLE WARNING SURFACES SHALL EXTEND ACROSS THE FULL WIDTH OF THE CURB RAMP, LANDING OR TRANSITION.

DOMES SHALL BE ALIGNED IN THE PREDOMINANT DIRECTION OF THE CURB RAMP.

DESIGN AND PLACEMENT OF DETECTABLE WARNING SYSTEMS SHALL BE IN ACCORDANCE WITH SECTION 609 OF THE SPECIFICATIONS AND THE PUBLIC RIGHTS OF WAY ACCESSIBILITY GUIDELINES (PROWAG).

DETECTABLE WARNING SURFACE



TYPE IV RAMP

- ① 8.33% (12:1) MAX. RAMP SLOPE, INCLUDING CONSTRUCTION TOLERANCE.
- ② CROSS SLOPE: 2.00% MAX. INCLUDING CONSTRUCTION TOLERANCE.
- ③ CURB RAMPS REQUIRE A (4'-0") MINIMUM TURNING SPACE WITH A MAXIMUM CROSS SLOPE AND LONGITUDINAL SLOPE OF 2.00% WHERE PEDESTRIANS PERFORM TURNING MANEUVERS. SEE NOTE REGARDING OBSTRUCTIONS ON SHEET 1 OF 3. SLOPE TO DRAIN TO CURB.

PAY LIMITS FOR CURB RAMPS

NOT TO SCALE

**WEST VIRGINIA DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
STANDARD DETAIL**

**REVISED STANDARD DETAIL**

REVISION DATE
7/21/10
10/22/13

**SIDEWALK RAMPS  
(SHEET 3 OF 3)**

SHEET PVT 7