

Unit 8 Lesson 1: Crosswalk Closures and Measurements



Course Navigation Tips:

- To complete each lesson, you must interact with the audio narration at the top of each section.
- You may drag the toggle on the playback bar to the last 5 seconds and let it play. This will allow the system to note it as complete.
- You are encouraged to complete the entire unit before closing in case your progress is not saved.



You must click on all images before moving on to next Lesson.



02:41

Start Audio Narration

Crosswalks are pedestrian facilities that must be useable and designed for all pedestrians. Curb ramps systems are the entry and exit point to the crosswalk or walkway. Crosswalks are not inventoried individually. They are interrelated to the curb ramp system asset and attached to the intersection milepoints, corners, and ADA ramp positions. When the crosswalk is formally closed, the ADA ramp position on the walkway is noted as “closed” and a curb ramp system is not provided.

Treatments for crosswalk closures are inspected on curb ramp systems on or along the state highway. Closure treatments such as barricades and signs should already be included in the construction contract documents and plans. These treatments are verified at inspection and submitted with the Closure/Removed Curb Ramp Inspection Form 734-5020(H). Details for filling out and submitting the form are presented in a later unit.

“By statute (ORS 801.220) crosswalks exist at all locations where crosswalk markings indicate a pedestrian crossing and at all intersections (whether marked or unmarked) unless closed by official action. The absence of marked crosswalk lines at an intersection does not preclude ADA requirements for providing ADA accommodations such as adding or upgrading existing curb ramps to meet current ADA standards for all quadrants of an intersection unless a crosswalk has been closed by official action.”



For a detailed description of crosswalks locations on State Highways, refer to the ODOT Traffic Design Manual.

Unmarked Crosswalks

Location of Crosswalks on State Highway typically have unmarked crosswalks that are 6 to 20 feet wide measured from the curb and cannot extend into the parallel travel way.

Marked Crosswalks

Marked crosswalks conform to the Manual on Uniform Traffic Control Devices (MUTCD, adopted in OAR 734-020-0005). Where crosswalks are marked, curb ramp system openings must be within the crosswalk striping.

The typical ODOT marked crosswalk width is 10 feet; however it may need to be larger based on the site design and the curb ramp system constructed.




05:12

Continue Audio Narration

Crosswalk Closure Document

When a crosswalk closure has been determined by an official action on a project there will be a Crosswalk Closure Document. A crosswalk closure document number will be provided on the curb ramp detail sheets for corners that are impacted. Crosswalk closure treatments described in the crosswalk closure document should be provided in the contract plans in the construction and traffic sheets.

DESIGN EXCEPTION		OREGON DEPARTMENT OF TRANSPORTATION		
CROSSING CLOSURE		PROJECT TITLE PROJECT TITLE PROJECT TITLE HIGHWAY COUNTY		
LRM NO.		Designer: Reviewer:		
HWY: M.P.:		Drafter: Checker:		
CORNER POSITION		SHEET NO.		
RAMP NO.				

FINAL ELECTRONIC DOCUMENT
AVAILABLE UPON REQUEST

Location of Crossing Closure number on Curb Ramp Detail Sheet Title Block

Crosswalk Closure information is available in FACS-STIP. Refer to Unit 4. Retain the Closed Crossing ID from the ADA Crosswalk Closure layer to request crosswalk closure documents from ODOT Liaison or Engineering & Technical Services Branch Traffic Unit.

Crosswalk closure documents are prepared by the approving jurisdictional authority. For crosswalk closures not on or along the state highway, contact ODOT's representative for the contract to assist in obtaining crosswalk closure approval documents from the local jurisdiction.

Curb ramp system locations will not pass inspection when the treatment installed is contradictory to the crosswalk closure approval document. ODOT ADA certified inspectors will need to verify that the requirements set forth by the State Traffic Engineer are in place and correctly installed. The approval might include signs, landscaping treatments, tubular markers, or other items which are prescribed in the closure document. When there are questions or concerns about a crosswalk closure, you can request a copy of the Crosswalk Closure Approval Letter.



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TO:

File Code: TRA 07-11-06
LRM 13100I00, MP 8.93
Key No. M22051
Approval No. 2023-029.1

FROM: State Traffic-Roadway Engineer

SUBJECT: Request for Crosswalk Closure
Netarts Highway (OR-131) at Grove Avenue
City of Tillamook

I have reviewed your request to close the eastern crosswalk at the subject intersection as shown in the diagram below. Your request notes that the project is addressing a location under existing conditions where pedestrians cannot complete the crossing because of a driveway in conflict at one or more ramp positions of an intersection. The conflicted ramp positions cannot be remedied by skewing the crosswalk up to 15 degrees or by offsetting the ramp up to 10 feet as described in Technical Bulletin RD21-01(B). Closing this crosswalk addresses equal access to these pedestrian facilities until a future project that makes substantial changes to this location can re-evaluate this closure.

In accordance with Oregon Administrative Rule 734-020-0410, I approve your request with the following conditions:

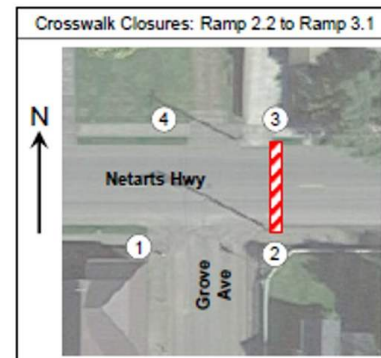
1. Ensure ADA compliance by following ODOT's ADA-related design standards, design exceptions, and inspection process.
2. Installation shall follow the requirements of Operational Notice MG 100-107.
3. The closure should be implemented by installing the following visual and detectable crosswalk closure treatments:

Crosswalk	Ramp	Approved Closure Treatment	
		Visual	Detectable ¹
Eastern	2.2	Sign OR 22-7 (double sided)	Required
	3.1	None ⁴	None ²

¹ A detectable closure treatment may be a crosswalk closure support (See TM 240), a detectable buffer, railing, or other approved feature.

² A detectable crosswalk closure treatment is not needed for this ramp due to the absence of an intersecting street or pedestrian facility which might suggest the presence of a crosswalk to a sight-impaired pedestrian.

⁴ The double sided sign on the opposite corner fulfills the requirement for a visual closure treatment for this ramp.



4. The crosswalk closure should be re-evaluated if/when substantial changes are made to the intersection's traffic control devices or pedestrian facilities.
5. At the earliest triggering event, the non-compliant ramp in corner 2 shall be reconstructed in a manner that, to the extent practicable, orients crossing pedestrians across Grove Avenue and not across the Netarts Highway.

Example of an Officially Approved Crosswalk Closure Document

Required Measurements

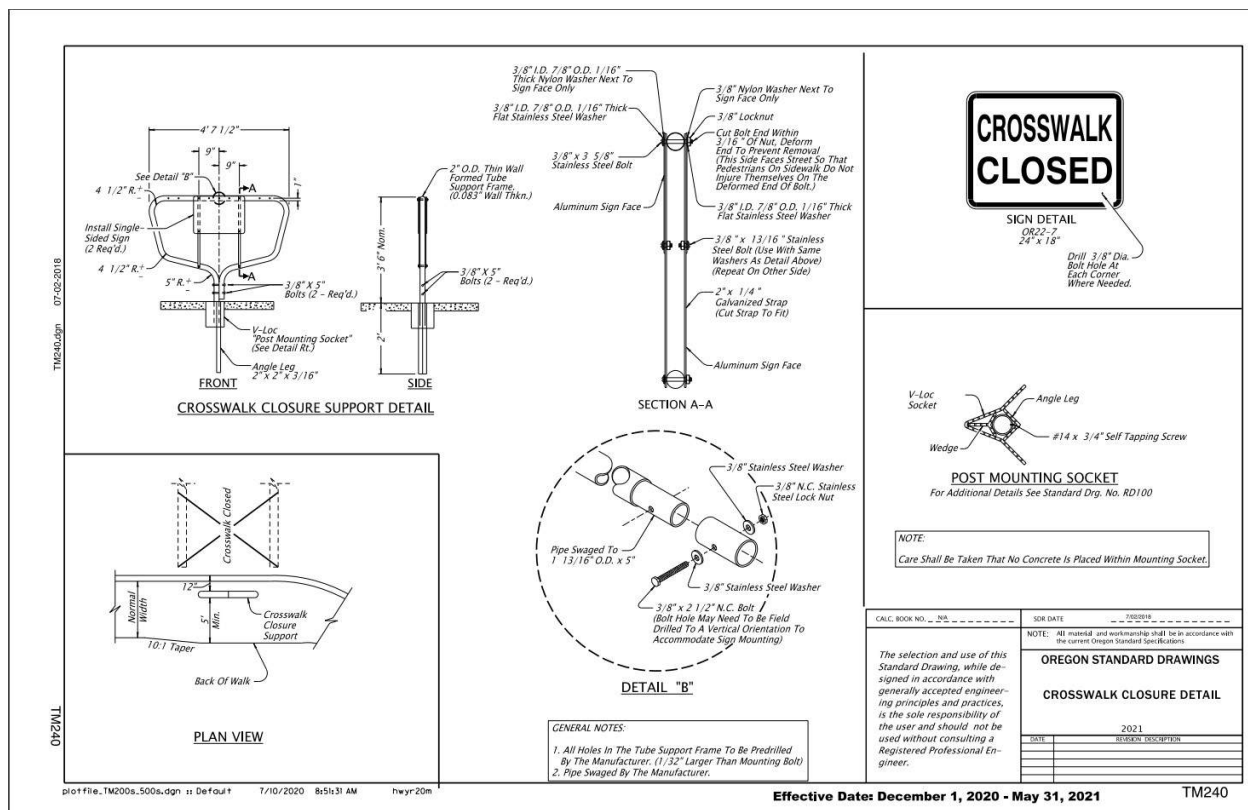
Measure the distance from the surface and height of installation. Measure the clear width along the walkway to ensure it meets requirements for pedestrian clear width on the pedestrian access route. This may impact your final curb ramp inspection system form submitted if it's located within the curb ramp proximity limits or near the ramp runs.

Apparatus Inspection

Improper installations need to be corrected before the associated contract is completed and before the Closure/Ramp Removal Inspection Form is submitted. Items that need to be checked during the inspection include the visual treatment and detectable treatment for the closure:

- Missing signs/barricades
- Wrong signs
- Improperly placed signs
- Approved detectable features for closures are in place.

One detectable treatment commonly used is a crosswalk closure support to provide both the sign support and detectable feature. Refer to the Oregon Standard Drawing TM240 CROSSWALK CLOSURE DETAIL drawing shown below for example installation. Inspection of the crosswalk closure support (often referred to as a barricade) includes the curb ramp corner and ramp position in the Crosswalk Closure Approval Letter. This is denoted as 2.2 indicating Corner 2 and Ramp 2 positions in the example Crosswalk Closure Approval letter above.



TM 240 Standard Drawing Crosswalk Closure Detail

Crosswalk closure supports and other approved devices are installed and located to instruct and inform all pedestrians about the street crossing closure. Crosswalk closure supports are usually located in the sidewalk and installed at a location that is effective in communicating to low vision and blind pedestrians. Locations of crosswalk closure supports and signs are shown in the contract documents and plans. Closure supports or other barricade treatments to prohibit crossing of the crosswalk should be placed where the natural path of travel by a pedestrian to proceed through the crosswalk is intercepted by the support or barricade.

Proper installation of the crosswalk closure support is shown in Figure below. Single- or double-faced signs may be specified and installed so that a pedestrian approaching the closed crosswalk sees the posted notice.



Proper installation of a Crosswalk Closure Support

Examples of Incorrect Cross Closure Installations

Example 1 is an example of an improperly installed treatment based on the closure document.



Example 1: Incorrectly installed closure sign.

The closure document states, "CROSSWALK CLOSED signs (OR22-7) shall be mounted on the signal poles of the NE and NW corner of I-5 NB ramp on Chemawa Rd." Three curb ramps systems at this intersection are not installed with the stipulations of the closure. The sign is located on a post behind the guardrail not the signal pole where most pedestrians would see or encounter the notice of closure.

Example 2 figure below shows an incorrectly installed closure support next to a telephone pole. It is required to be installed at adjacent to the curb and required a crosswalk closure sign on both sides of the closure support.



Example 2: of Incorrectly installed crosswalk closure support

Example 3 shows a missing sign on the crossing closure support. Two signs are required.



Example 3: Missing Sign on a crosswalk closure support



Review all figures and advance audio to the end before moving on. The quiz is on the next screen.