Intro

ADA Operations Contact Info

Todd Grugel	ph: 651-366-3531	email: todd.grugel@state.mn.us
Joe Zilka	ph: 651-366-3311	email: joseph.zilka@state.mn.us
Harvey Unruh	ph: 651-216-2912	email: harvey.unruh@state.mn.us
Krysten Saatela	ph: 651-366-4631	email: krysten.saatela@state.mn.us
Tim Paul	ph: 320-223-6546	email: Timothy.g.paul@state.mn.us

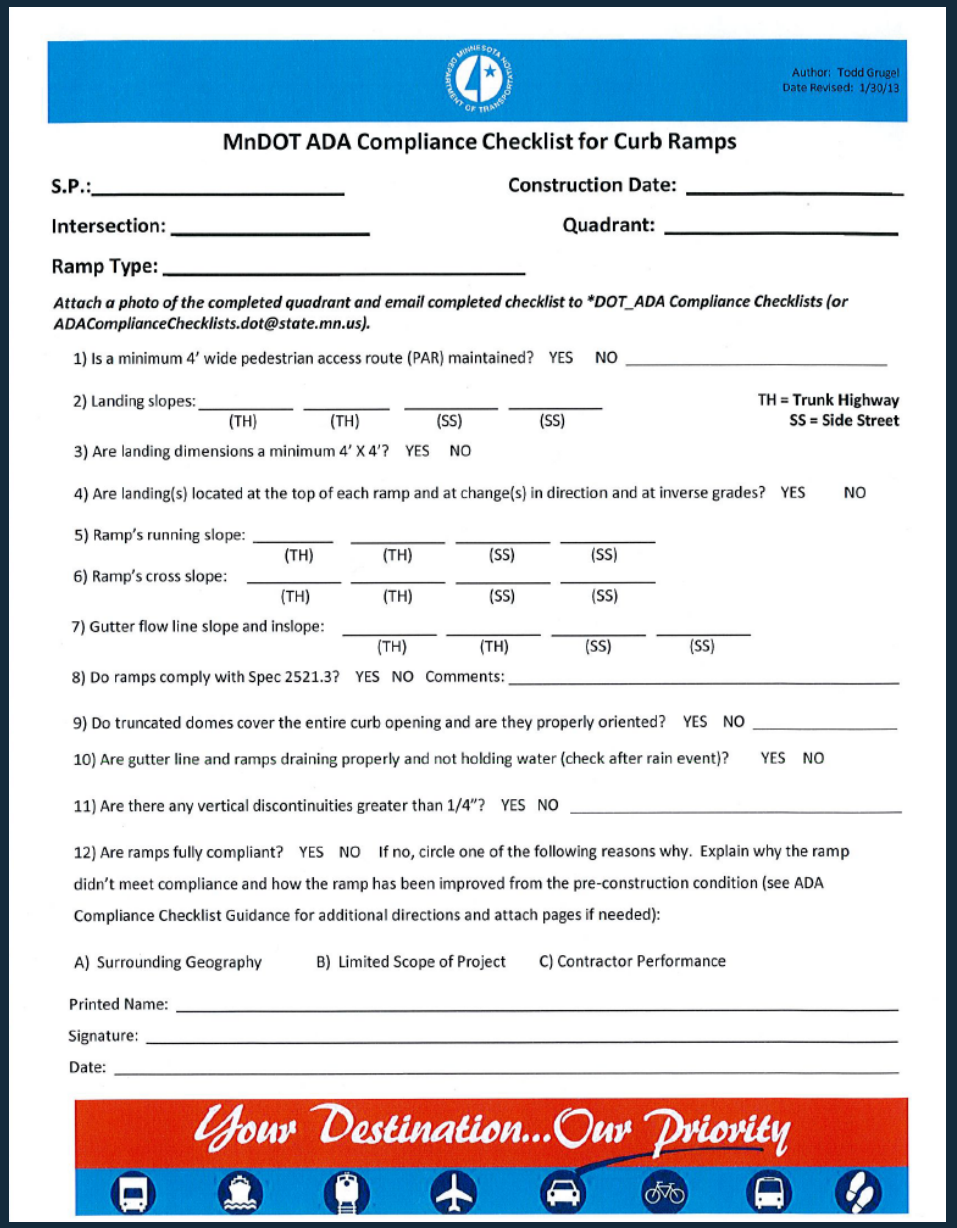
MnDOT ADA Training

Module 3: Compliance Checklists

Your Destination...Our Priority

ADA Compliance Checklist

ADA Compliance Checklists must be filled out for all constructed pedestrian facilities.



Author: Todd Grugel
Date Revised: 1/30/13

MnDOT ADA Compliance Checklist for Curb Ramps

S.P.:_____ **Construction Date:** _____

Intersection: _____ **Quadrant:** _____

Ramp Type: _____

Attach a photo of the completed quadrant and email completed checklist to *DOT_ADA Compliance Checklists (or ADAComplianceChecklists.dot@state.mn.us).

1) Is a minimum 4' wide pedestrian access route (PAR) maintained? YES NO _____

2) Landing slopes: _____ (TH) _____ (TH) _____ (SS) _____ (SS)

TH = Trunk Highway
SS = Side Street

3) Are landing dimensions a minimum 4' X 4'? YES NO

4) Are landing(s) located at the top of each ramp and at change(s) in direction and at inverse grades? YES NO

5) Ramp's running slope: _____ (TH) _____ (TH) _____ (SS) _____ (SS)

6) Ramp's cross slope: _____ (TH) _____ (TH) _____ (SS) _____ (SS)

7) Gutter flow line slope and inslope: _____ (TH) _____ (TH) _____ (SS) _____ (SS)

8) Do ramps comply with Spec 2521.3? YES NO Comments: _____

9) Do truncated domes cover the entire curb opening and are they properly oriented? YES NO _____

10) Are gutter line and ramps draining properly and not holding water (check after rain event)? YES NO

11) Are there any vertical discontinuities greater than 1/4"? YES NO _____

12) Are ramps fully compliant? YES NO If no, circle one of the following reasons why. Explain why the ramp didn't meet compliance and how the ramp has been improved from the pre-construction condition (see ADA Compliance Checklist Guidance for additional directions and attach pages if needed):

A) Surrounding Geography B) Limited Scope of Project C) Contractor Performance

Printed Name: _____

Signature: _____

Date: _____

Your Destination...Our Priority

ADA Compliance Checklist Guidance

MnDOT ADA Compliance Checklist for Curb Ramps - Guidance

1) A continuous clear width pedestrian access route (PAR) shall be **4 foot minimum**, exclusive of the width of the curb, in every direction of travel. The cross slope along all PARs shall not exceed **2.0%**.

2 & 3) Record the landing slopes and dimensions. The landing must not have a slope greater than **2.0%** in any direction and must be a minimum 4' X 4'.

4) Check the landing locations. Landings shall be located anywhere the pedestrian access route changes direction; at the top of ramps that have a running slope greater than 5.0%; and if the approaching walk is inverse grade.

> Some corners may have multiple ramps and multiple landings to get from the street elevation up to the adjacent sidewalk elevation. If this is the case, be sure to check all ramps, landing areas, and newly poured sidewalks for compliance.

5) Record the largest running slope (i.e. slope in the direction of travel) value after checking a couple of locations on the ramp. This must be less than or equal to **8.3%** (or 1 inch per foot). Use a **10 foot** straight edge with a smart level to check this.

6 & 7) Record the largest cross slope (i.e. slope perpendicular to the direction of travel) value after checking a few locations on the ramp. This must be less than or equal to **2.0%.** In cases where the grade of the gutter flow line exceeds 2.0%, the ramp cross slope adjacent to the gutter may exceed 2.0% but must not exceed the slope of the flow line and must transition to a 2.0% cross slope as soon as is practical. Be sure to document this condition when it exists. Check gutter flow line slope and inslope at the bottom of each ramp. The gutter flow line slope should not exceed 2.0% when practicable. The gutter inslope must meet the applicable standard from Sheet 3 of 5 of the Pedestrian Curb Ramp Details Standard Plans (5-297.250).

8) When checking the running slope with a 10 foot straight edge, make sure the surface is compliant with **Spec. 2521.3C**, which says "The surface shall not vary more than **3/16"** from a **10 foot** straight edge." Look for any bellies or ridges in the concrete ramp surface greater than **3/16"**. Also, the joints in the walk should be finished with a **1/4"** radius jointing/edging tool or saw cut, and contraction joints should be approximately **1/8"** wide per **Spec. 2521.3C.**

9) Check truncated dome placement and orientation. If the ramp is directional the domes should be oriented in the direction of travel within the allowable set back limits, and in accordance with the applicable standard from Sheet 2 of 5 of the Pedestrian Curb Ramp Details Standard Plans (5-297.250).

> A minimum 4' width of truncated domes is required for all ramps openings for a minimum 24'' continuous length in the path of travel. Truncated domes shall extend the full width of the ramp, landing, or blended transition within 3" on each end (between the edge of domes and beginning of curb taper). Radial detectable warnings shall be set back 3"-6" from back of curb / edge of roadway. On rural ramps with no curb, domes shall be set in concrete 1' back from edge of roadway with 3'' on the sides, and 1' minimum behind domes for visual contrast.
>
> Whenever rectangular detectable warnings are placed around a radius, they may be set back up to 9" from back of curb in the middle of the ramp and 3" at the corners. If 9" setback is exceeded, use radial detectable warnings.

10) After a rain event, check the completed ramps to make sure that neither the ramps nor the gutters are holding water and everything appears to be draining properly.

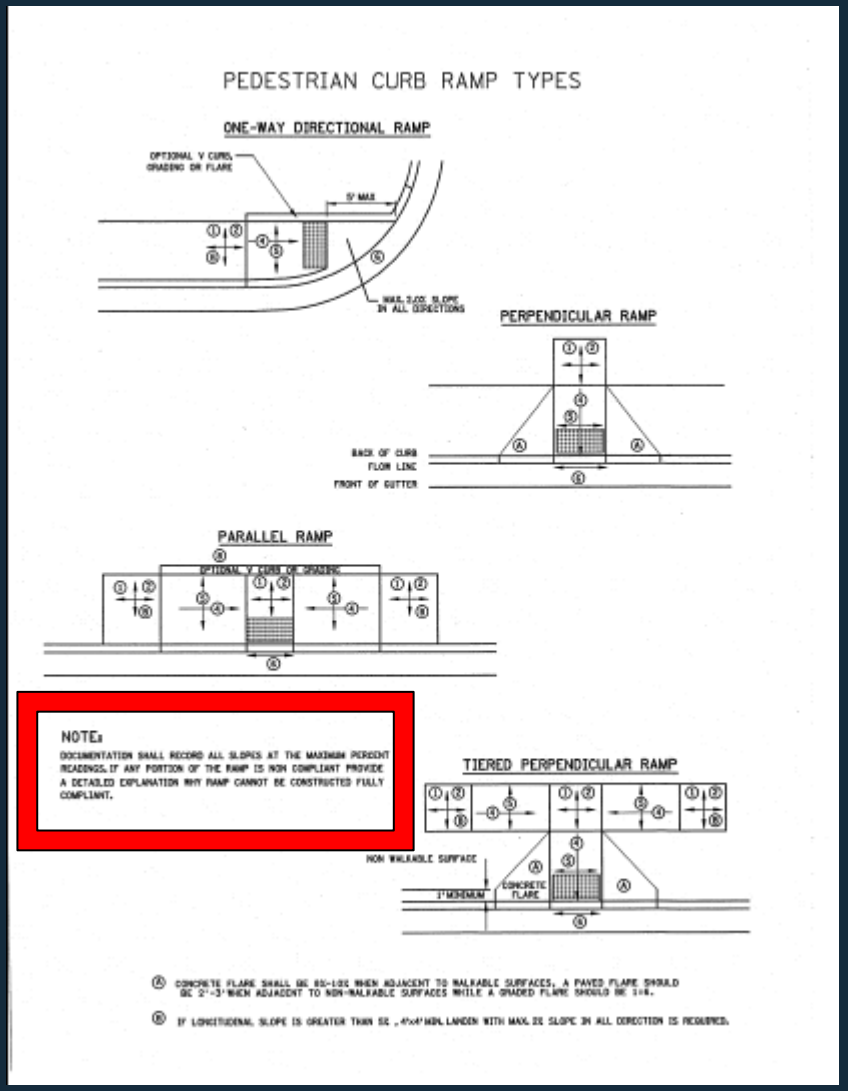
11) Vertical discontinuities (i.e. trip hazards) greater than ¼" are unacceptable. Any vertical discontinuities between ¼"- ½" may be beveled at a maximum 1:2 slope. All beveling of concrete requires Engineers approval and is not recommended. If any vertical discontinuities are greater than ½ ", the panel or curb and gutter must be removed and replaced.

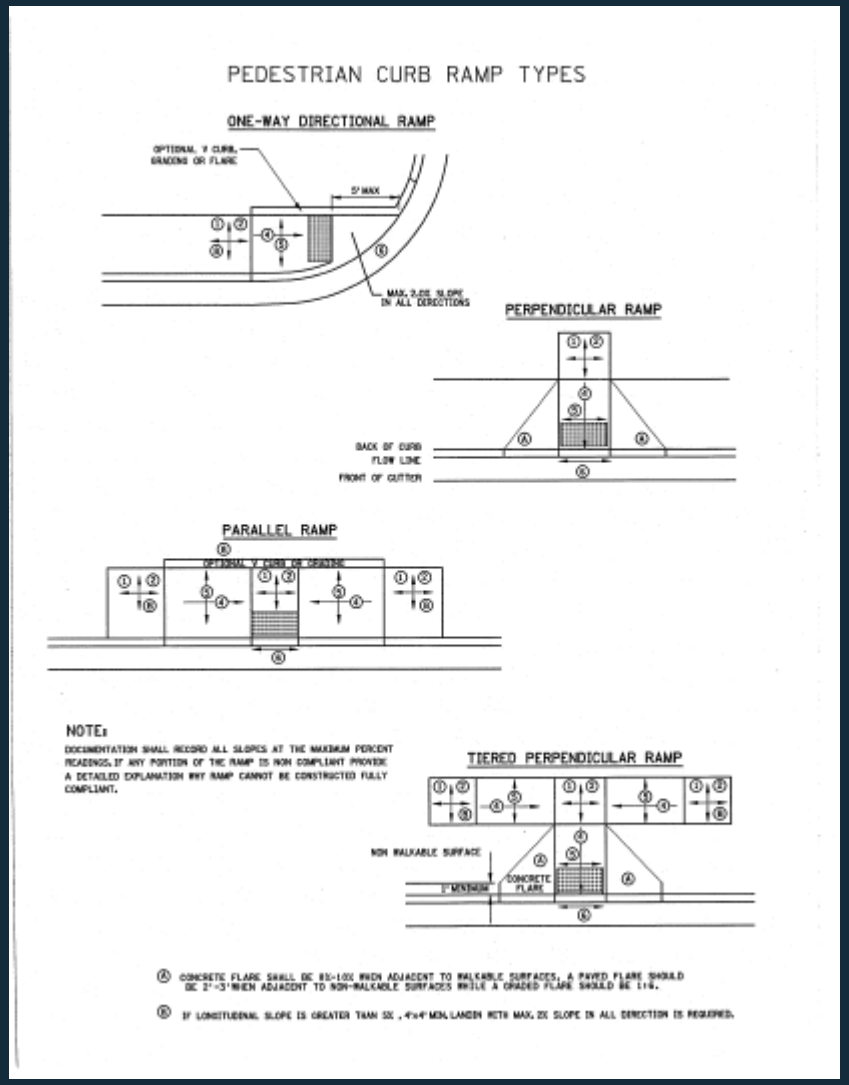
12) If any portion of the ramp is not compliant, be sure to document the pre-construction and post-construction ramp conditions and explain why the ramp cannot be fully compliant. Include photos with documentation. Also, circle one of the given reasons that best describes why the ramp isn't compliant.

> A) Surrounding Geography – The ramp couldn't be constructed compliantly because of the surrounding geography. Examples: the walkway had to tie into nearby entrances or steps; the gutter flow line in front of truncated domes is too steep to maintain a compliant ramp cross slope; or it is impossible to construct the ramps using maximum running slopes within 30 feet from the back of curb.
>
> B) Limited Scope of Project – Upgrading the ramp to meet standards would have required work that is outside the scope of this project. Examples: utilities, such as fire hydrants, street light poles, traffic signal poles, manholes or vaults, could not be moved as part of this project; standalone ADA projects without adjacent pavement work that limit curb line elevation changes; lack of available right-of-way; or an agreement could not be reached with the property owner.
>
> C) Contractor Performance – The ramp could have been constructed compliantly, but the contractor did not properly construct the ramp in accordance with provision 1803 Special Project ADA Requirements. *If any compliance standards are not met due to contractor performance, rework is required before the project is substantially complete. See Specification 1503 (Conformity with Plans and Specifications) for further justification.*

ADA Compliance Checklist Guidance

Ramp Types: New for 2013





ADA Compliance Checklist

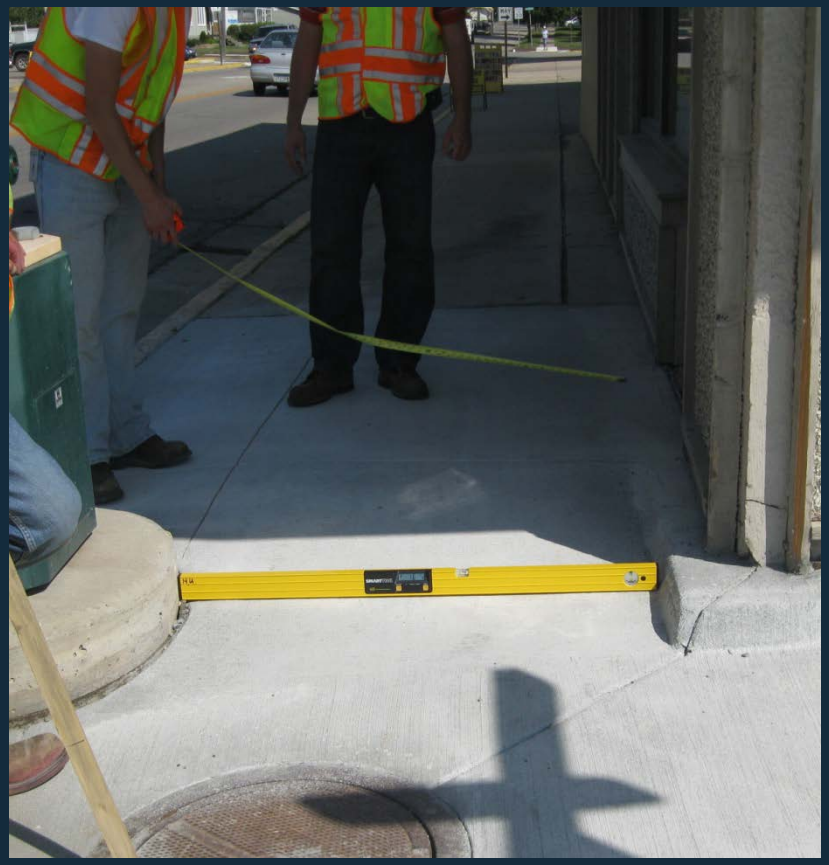
NOTE:

- Documentation shall record the largest cross slope value, and running slope value after checking several locations.

- If any portion of the ramp is non-compliant provide a detailed explanation why ramp cannot be constructed fully compliant.

(1) PAR

1) Minimum 4 ft. wide Pedestrian Access Route (PAR) with maximum cross slope of 2%

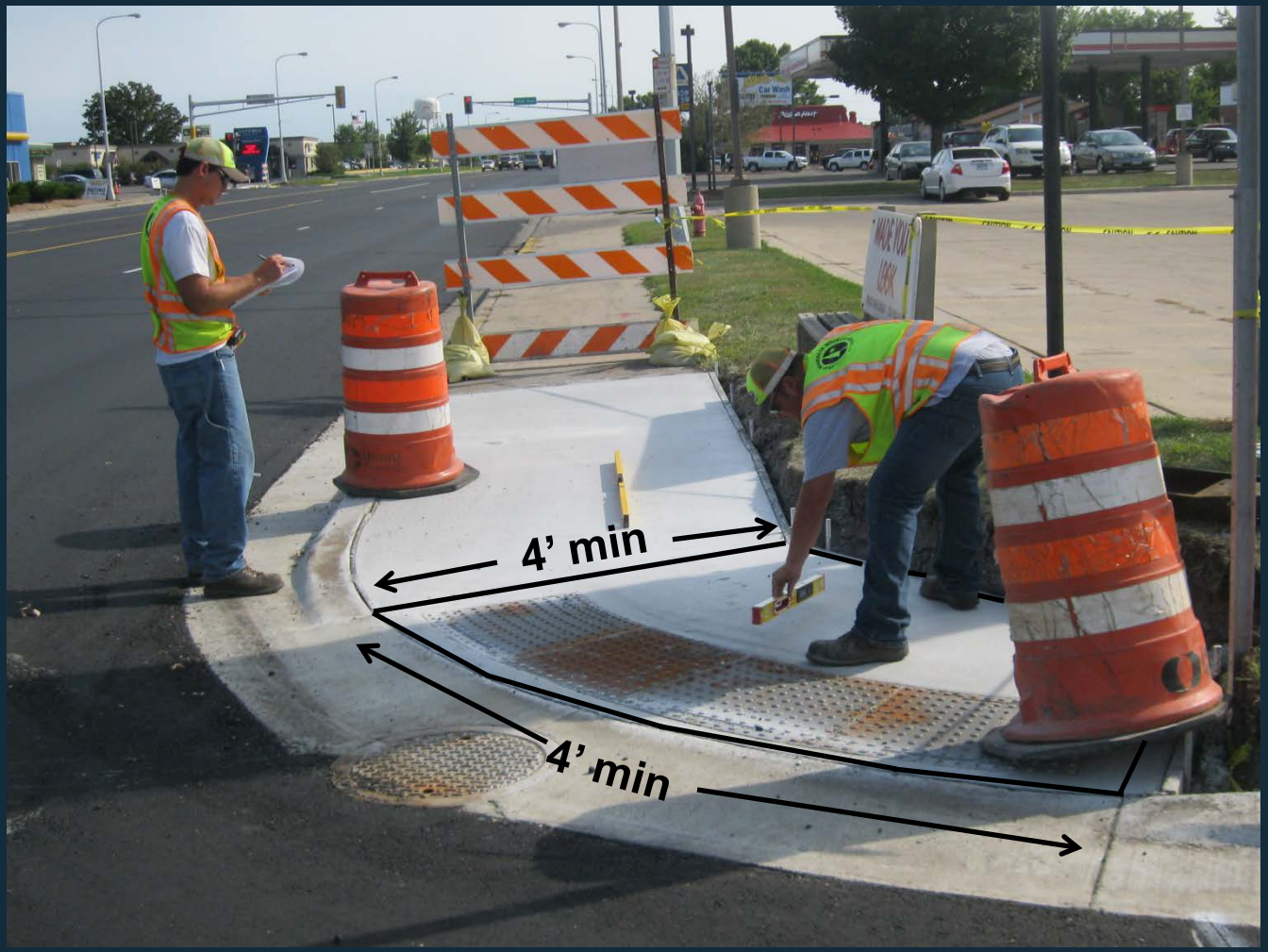


ADA Compliance Checklist

2) Record landing slopes (max. 2% in any direction)

ADA Compliance Checklist

3) Landing dimensions are a minimum 4’ x 4’.

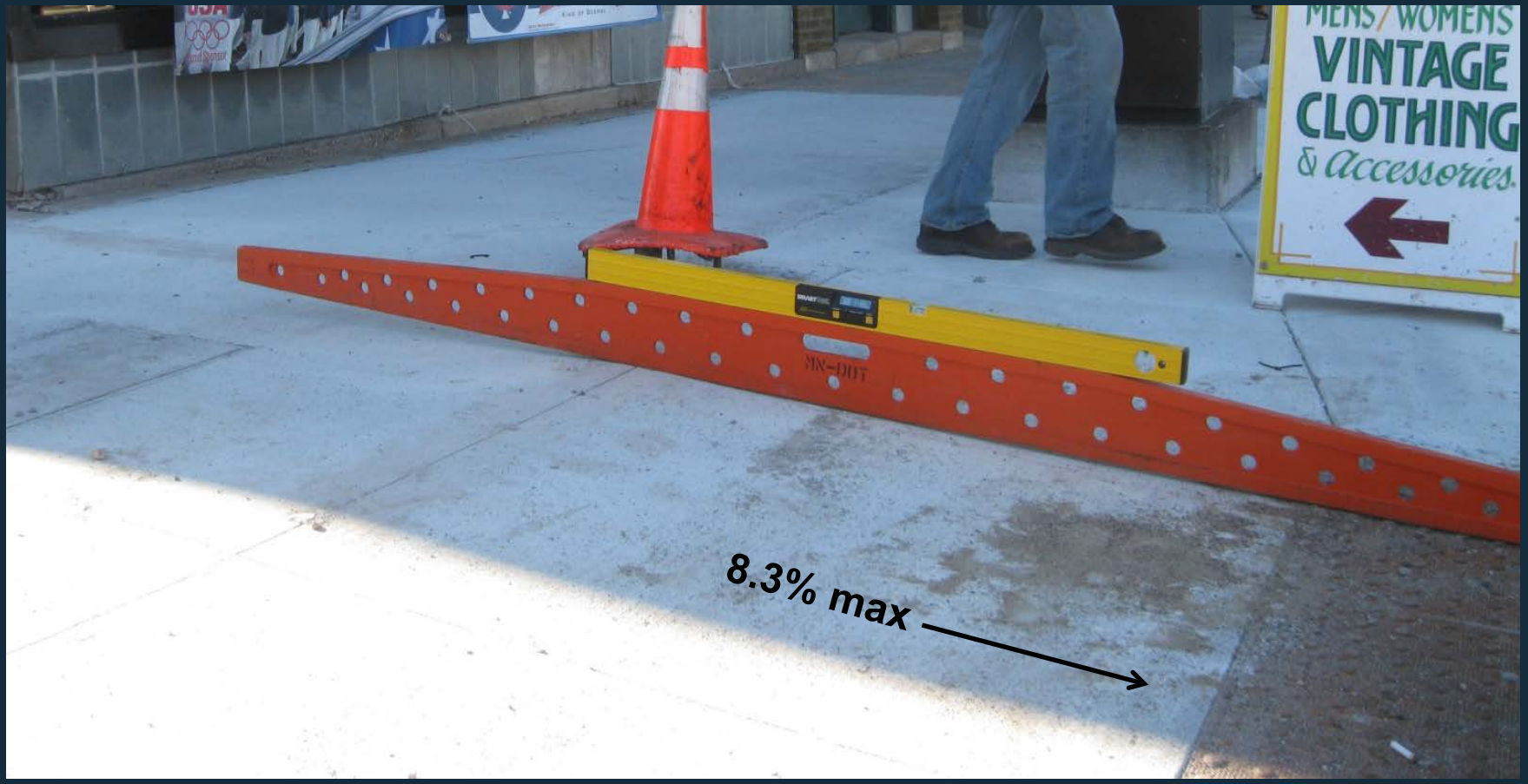


ADA Compliance Checklist

4) Landings are located at the top of each ramp. Is it over 5%? Is there a change in direction?

ADA Compliance Checklist

5) Ramp's running slope must be less than or equal to 8.3%.



ADA Compliance Checklist

6) Ramp's cross slope must be 2% maximum.

ADA Compliance Checklist

7) Record gutter flow line slope and inslope.

ADA Compliance Checklist

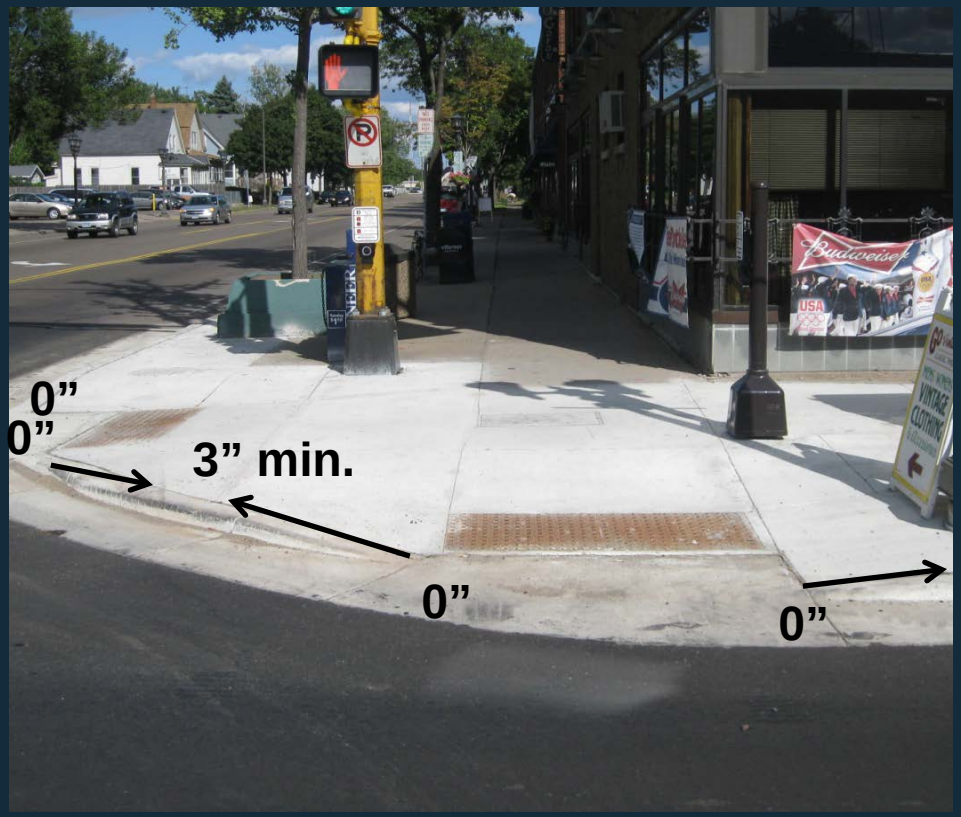
8) Spec 2521.3C: Check ramp running slope with 10’ straight edge. Look for bellies or ridges greater than $^{3}/_{16}$ inch.

ADA Compliance Checklist

9) Truncated domes cover the entire curb opening and meet setback criteria.

ADA Compliance Checklist

9) Curb tapers are considered a detectable edge when tapers start within 3” of truncated domes and rise to a minimum 3” curb height.

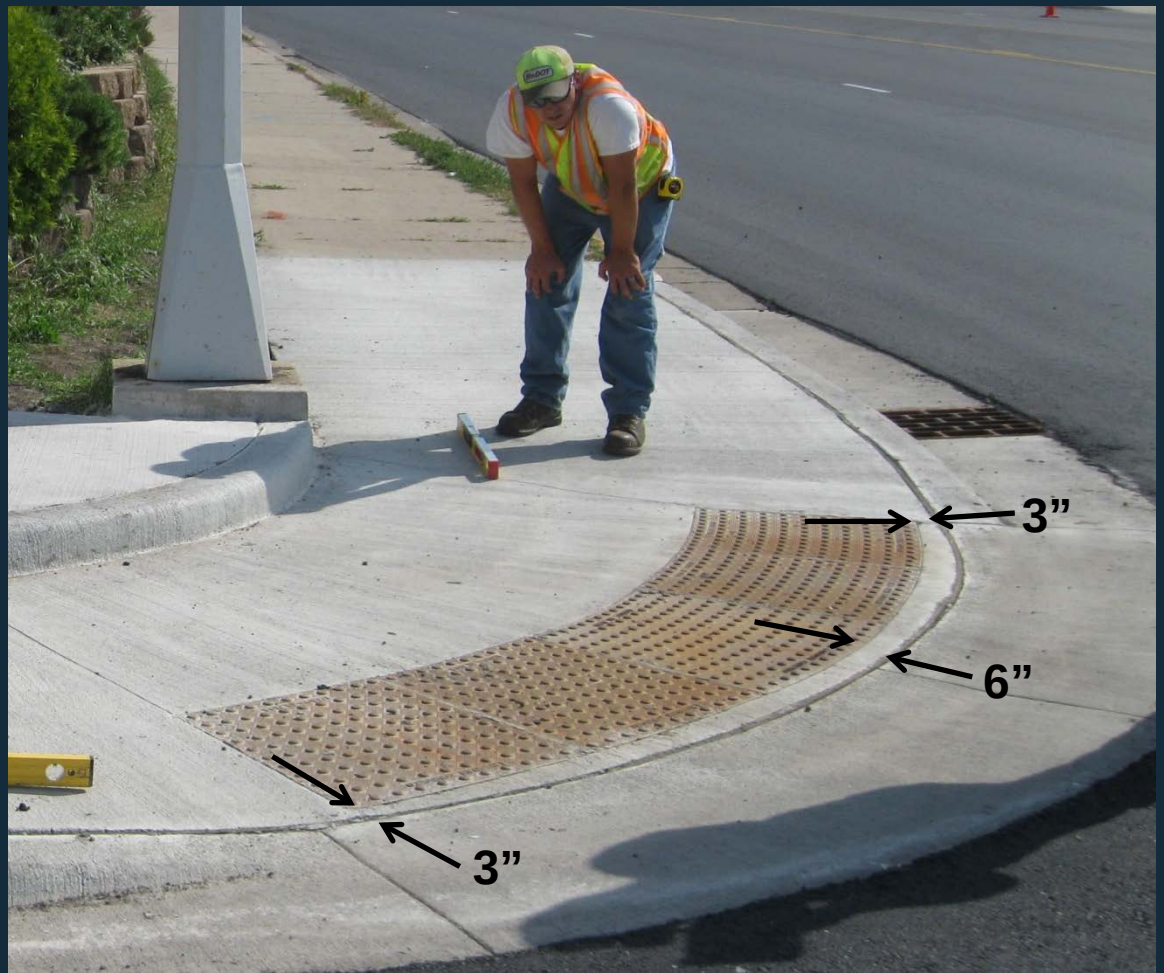


ADA Compliance Checklist

9) Truncated domes shall extend full width of the ramp landing or Blended transition within 3” on either end

ADA Compliance Checklist

9) Radial Detectable warnings shall be set back 3” to 6” from back of curb.

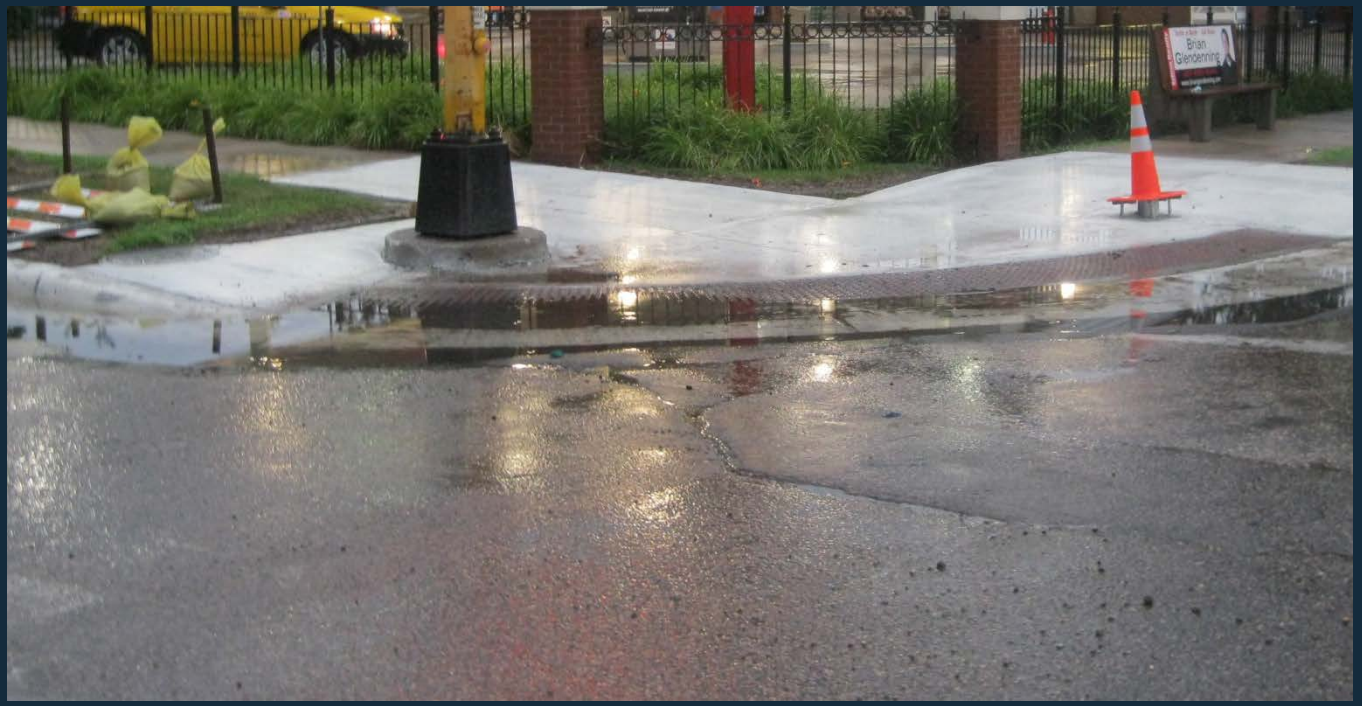


ADA Compliance Checklist

9) Whenever rectangular domes are placed around a radius, they may be set back up to 9” in the middle and 3” at the corners.

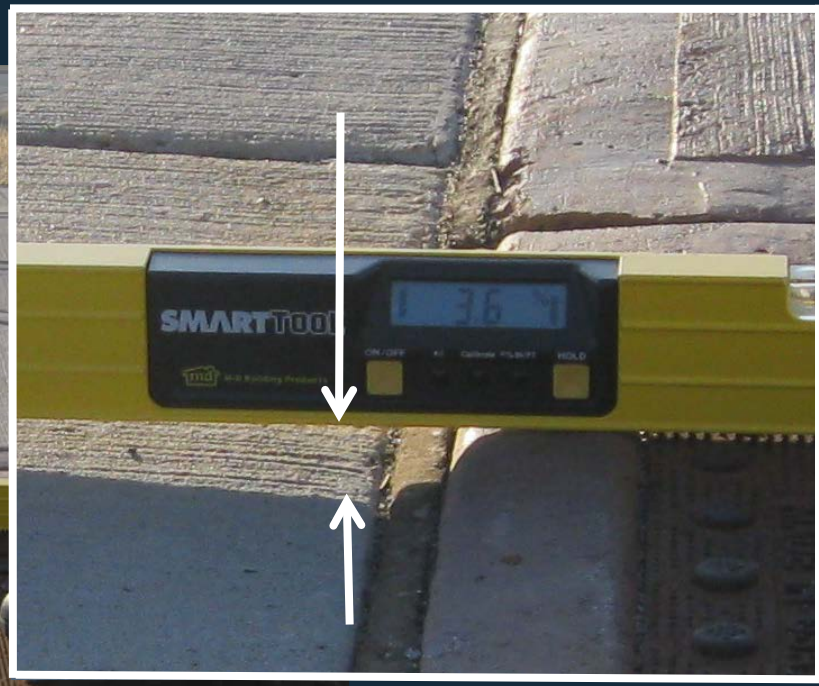
ADA Compliance Checklist

10) Check gutter line and ramps are draining properly and not holding water. Check after rain event.



ADA Compliance Checklist

11) No vertical discontinuities greater than ¼ inch anything over ½ inch and the panel should be replaced.



ADA Compliance Checklist

11) No vertical discontinuities greater than ¼ inch

ADA Compliance Checklist

12) If any portion of the ramp is not compliant and cannot be made to be compliant, be sure to document the pre-construction and post-construction ramp conditions and explain why the ramp cannot be made to be “fully compliant” include photos with documentation.

Also circle one of the given reasons that best describes why the ramp isn’t compliant.

ADA Compliance Checklist

A) Surrounding Geography: The ramp could not be constructed to be compliant because of surrounding geography. Examples:

- Having to tie the walkway into doorways, entrances or steps
- Roadway adjacent to the walk has steep slopes so that it is impossible to construct the ramp using maximum slopes and staying within 30’ of the back of curb
- Gutter flow line in front of truncated domes is too steep to maintain compliant ramp cross slope

ADA Compliance Checklist

B) Limited Scope of Project: Upgrading the ramp to meet standards would have required work that is outside the scope of the project. Examples:

- Utilities such as fire hydrants, street lights, signal poles, manholes, etc. that could not be moved as part of the project
- Standalone ADA projects without adjacent pavement work limit curb line elevation changes
- Lack of available right-of-way or could not agree with property owner

ADA Compliance Checklist

C) Contractor Performance:

The ramp could have been constructed to be compliant, but the contractor failed in constructing the ramp.

If any compliance standards are not met due to contractor performance, rework is required before the project is substantially complete. See Specification 1503 (Conformity with Plans and Specifications).

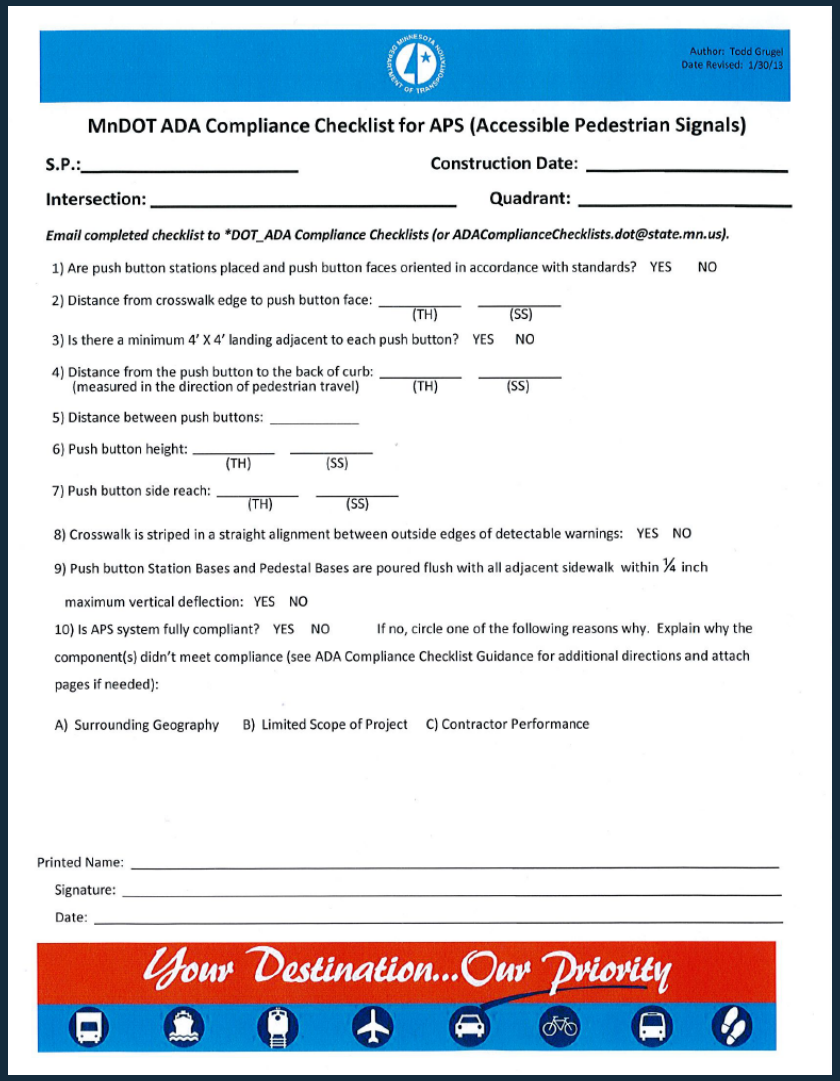
APS Compliance Checklist

Documentation: Save originals for your records.

And: **Email completed checklists to *DOT_ADA Compliance Checklists (or ADAComplianceChecklists.dot@state.mn.us for external users).**

APS Compliance Checklist

Compliance Checklists and Guidance on ADA web site.



Author: Todd Grugel
Date Revised: 1/30/13

MnDOT ADA Compliance Checklist for APS (Accessible Pedestrian Signals)

S.P.:_____ **Construction Date:** _____

Intersection: _____ **Quadrant:** _____

Email completed checklist to *DOT_ADA Compliance Checklists (or ADAComplianceChecklists.dot@state.mn.us).

1) Are push button stations placed and push button faces oriented in accordance with standards? YES NO

2) Distance from crosswalk edge to push button face: _____ (TH) _____ (SS)

3) Is there a minimum 4' X 4' landing adjacent to each push button? YES NO

4) Distance from the push button to the back of curb: _____ (TH) _____ (SS)
(measured in the direction of pedestrian travel)

5) Distance between push buttons: _____

6) Push button height: _____ (TH) _____ (SS)

7) Push button side reach: _____ (TH) _____ (SS)

8) Crosswalk is striped in a straight alignment between outside edges of detectable warnings: YES NO

9) Push button Station Bases and Pedestal Bases are poured flush with all adjacent sidewalk within ¼ inch maximum vertical deflection: YES NO

10) Is APS system fully compliant? YES NO If no, circle one of the following reasons why. Explain why the component(s) didn't meet compliance (see ADA Compliance Checklist Guidance for additional directions and attach pages if needed):

A) Surrounding Geography B) Limited Scope of Project C) Contractor Performance

Printed Name: _____

Signature: _____

Date: _____

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MnDOT ADA Compliance Checklist for APS - Guidance

1) When facing the intersection, the push button for the crosswalk on your left should also be located to your left on the outside edge of the crosswalk, and the push button for the crosswalk on your right should be located to your right on the outside edge of the crosswalk. The push button face shall be aligned parallel to the outside edge of cross walk.

2) The push button shall be offset up to 5 feet maximum from the lateral projection of the outside edge of the cross walk.

3) The push button shall have a minimum 4' X 4' landing with less than a 2% cross slope in all directions. Center the push button on the landing if possible to do so without violating any of the requirements in the Special Provisions. The landing must be connected to the pedestrian access route.

4) The push button shall be 1.5 feet to 10 feet from the back of curb and ideally it will be approximately 6 feet from the back of curb.

5) The push buttons shall have at least 10' of separation between them. In median islands (including porkchops) the minimum separation is 5'. Whenever possible it is preferred to provide a minimum 6' wide clear distance between a push button station and any obstructions, including buildings, signal bases, light poles, or another push button, for snow removal purposes.

6) The push buttons shall be at a height of 42" plus or minus 2". If it is possible to mount the push button on a signal pole and meet all the criteria listed in the Special Provisions, then the push button shall be mounted on the signal pole and the unused push button station components shall be considered surplus materials and delivered to MnDOT Electrical Services.

7) The pushbutton shall have a 10" maximum unobstructed side reach measured from the landing to the push button face.

8) Crosswalks shall be striped in a straight or skewed alignment between the outside edges of the detectable warnings with no kinks unless the crosswalks are shown kinked in the plans.

9) All push button station bases and pedestal bases shall be poured either concurrently with or after the adjacent sidewalk pour. These bases shall be poured flush with all adjacent sidewalks within ¼" maximum vertical deflection as shown in the plans and MnDOT Standard Plate 8112. If push button is mounted on a signal pole, the contractor shall determine the finished grade for top of sidewalk and verify the signal pole foundation is no more than 8" above the new finished sidewalk grade and that the signal still meets the vertical clearance requirements of MNDOT Standard Plates 8120 or 8126.

10) If any of these specifications are violated, provide an explanation describing which parameters were violated and why.

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APS Compliance Checklist

1) Push buttons stations are properly placed and the push button faces are oriented properly.

APS Compliance Checklist

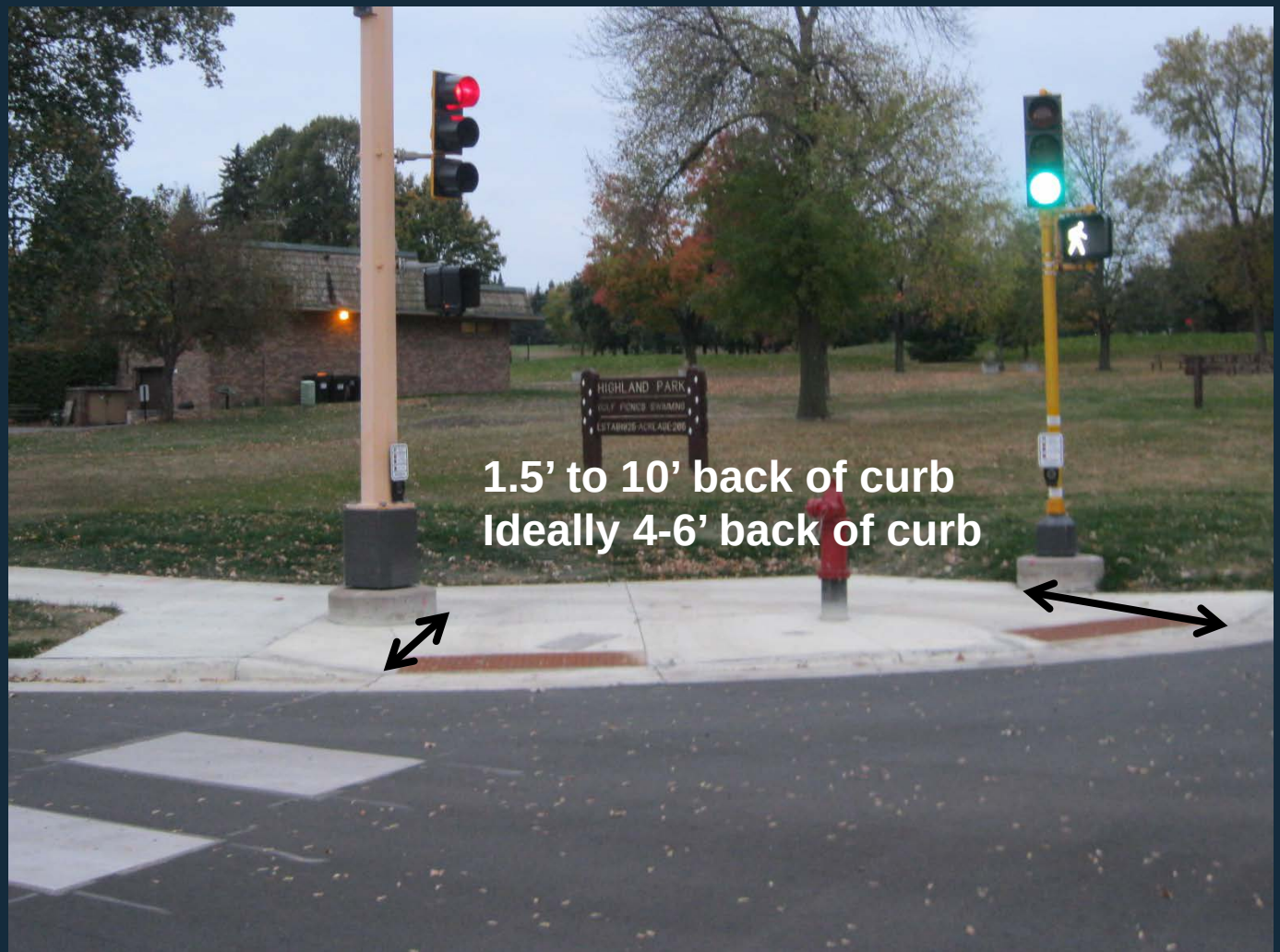
2) Distance from crosswalk edge to push button face: _____ _____

APS Compliance Checklist

3) There must be a 4’ x 4’ landing adjacent to the push button.

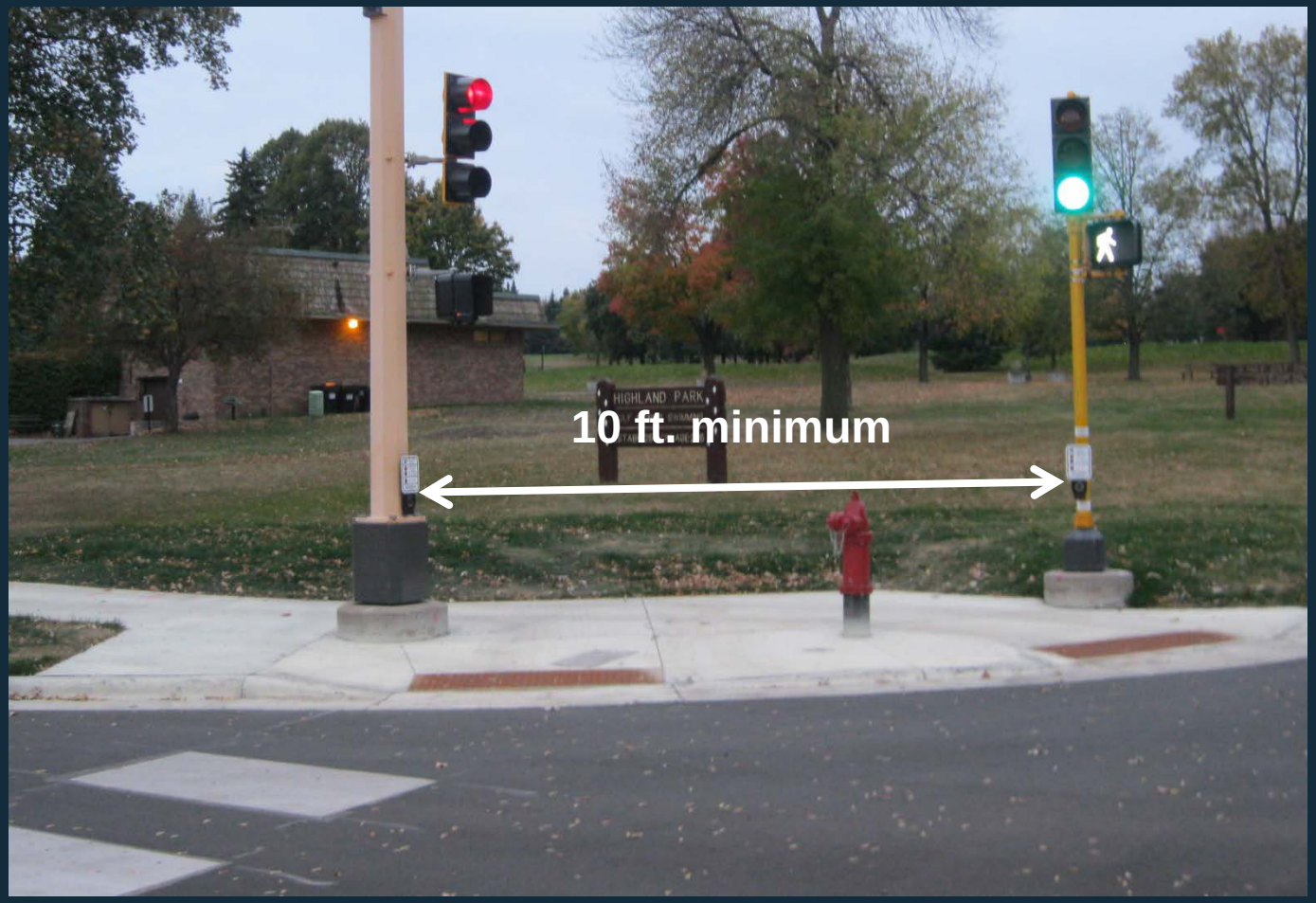
APS Compliance Checklist

4) Distance from the push buttons to the back of curb: _____ _____



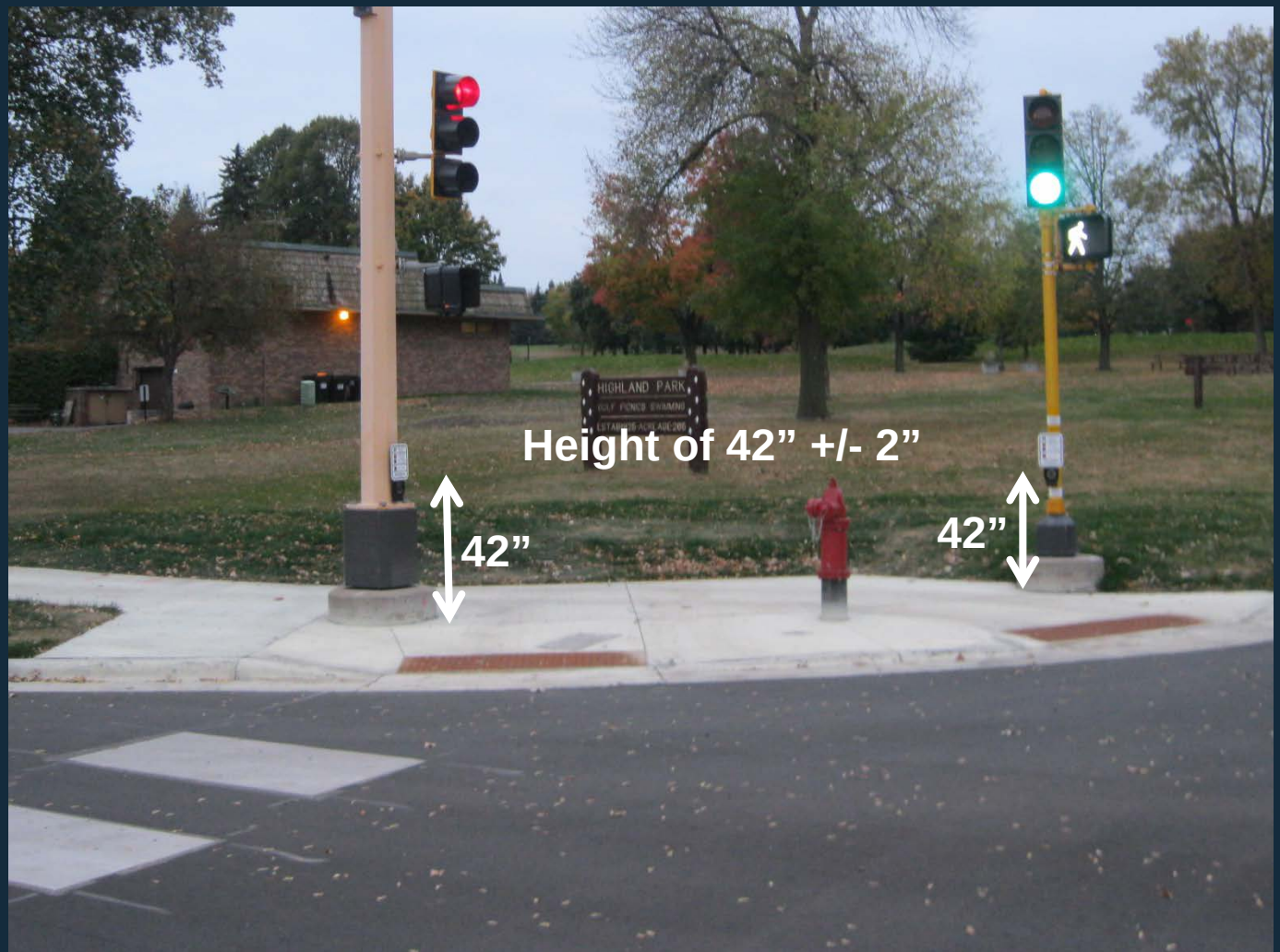
APS Compliance Checklist

5) Distance between the push buttons: _____



APS Compliance Checklist

6) Push button height: _____



APS Compliance Checklist

7) The push button needs an unobstructed side reach of 10” maximum.

APS Compliance Checklist

8) If any of these standards are violated, provide an explanation describing which parameters were violated and why.

Documentation: Save originals for your records.

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Questions?