

## ADA Plan Review Checklists Guidance

These checklists need to be filled out and submitted with the plan set for CO – ADA review. Only certain items need to be filled out on depending on the design level of the quadrants 1, 2 or 3. For example level 1 quadrants only need item numbers 1-2, 7-9 and 18 submitted with Plan review 1 while level 3 quadrants need all of the boxes either checked (which states they are included in the submittal) or a brief explanation which states the reason why it's not included in the plan set.

### ADA Plan Review 1

- Shall be submitted with the 30% to 60% plan, or whenever the design work and checklist is filled out completely as described above to ensure an adequate ADA review.
- May be submitted electronically to Todd Grugel (cc: Joe Zilka) or interoffice mailed to MS 680.
- If plan sheets change as a result of comments from other functional groups, ADA needs to be aware of such changes.

### Plan Review Checklist Heading

- Shall be filled out completely for each plan review checklist.
- Design Survey accuracy needed for ADA projects needs to be within a 0.10' for both horizontal and vertical control. Total station and LIDAR are the recommended survey practices for vertical control unless surveyor can verify other methods will achieve this accuracy. Mapping shall never be used for either horizontal or vertical control.
- Talk with the locals and determine what minimum widths are needed for their snow and ice removal operations. Typically 6' min. is needed for skid steers while 8' min. is needed for pick-up trucks.

Name \_\_\_\_\_ SP \_\_\_\_\_ City \_\_\_\_\_ TH(s) \_\_\_\_\_

Project Description \_\_\_\_\_

Letting Date \_\_\_\_\_ Letting Agency \_\_\_\_\_ Charge ID T \_\_\_\_\_

Design Survey Accuracy Horiz. \_\_\_\_\_ Vert. \_\_\_\_\_ Date Survey Performed \_\_\_\_\_

(If APS) Signal Designer \_\_\_\_\_ and \_\_\_\_\_

Snow & Ice Maintenance Requirement Widths \_\_\_\_\_ Road Design Percent Complete \_\_\_\_\_

#### ITEM No.

1. Follow the [ADA Project Design Guide](#) as well as appropriate curb ramp guidelines.
2. Follow all of the [ADA Preferred Designs](#) or document why they weren't followed.
3. Utilized the [ADA Standard Legend](#). Need to include all of the symbols that are applicable. Control points at gutter flow line, truncated domes, concrete curb and gutter, curb height, hatched landing areas, ramp slope ranges and drainage flow arrows will be used on all ADA projects with level 2 or 3 designs.
4. Show MnDOT ROW and City ROW on all ADA detail sheets. This is very important for all ADA projects because quite often sidewalk footprints can be increased slightly to make the curb ramp much more usable and maintainable.
5. All surface utilities are shown and field verified on the ADA details. This includes all applicable signal components, manholes, drainage structures, light poles, benches, signs etc...
6. 20' scale details are preferred or 30' scale accepted if needed to fit the entire intersection on ONE sheet. Only these two scales are allowed to ensure that all of the ped ramps at an intersection work with one another. 10' scale intersection details are only allowed as supplemental details.
7. Determine all ped ramp crossings. Ped ramp types will change depending on the number of crossings at each intersection. Please confer with the [Pedestrian Crossing Facilitation tech memo](#), the ADA office or Melissa Barnes with crossing questions.

8. Curb ramps have been designed. For level 1's the ramp type is called out in a tab and level 2's and 3's are shown in the ADA details.
9. Existing flow lines from 2-3% need a construction note stating to "table" the flow line to less than 2% on the ADA details or tabulation. The existing flow line data is determined from either an accurate survey or a digital smart level.
10. Flow lines over 3% need to be labeled and include either X,Y,Z information or a profile that brings the flow line to compliance. Tabling of the flow lines should be done until 2% is achieved or once the 2 following criteria are met; the minimum road cross slope allowed is 1% to maintain positive drainage, the maximum road cross slope allowed is 5%. Once the 2 criteria are met that flow line is as flat as it can be without changing the profile of the road. If the flow line is still non-compliant it must be documented along with the appropriate road cross slopes which are needed for tabling, this ensures the field staff is aware of the designer's intent.
11. Show push button locations, including the distance from the push button to the front and back of the landing, as seen in [Signal Guidance](#).
12. For all APS pushbutton located on signal poles, include the APS Pole Mounting Adaptor (extension bracket).
13. For all APS pushbuttons located on pedestals, include 3 saddle adaptors for each pedestal.
14. Contractor friendly terms are needed to ensure the Inspection staff and Contractor are aware of the Designer's intent. These terms are needed for all level 3 quadrants, since they have a match point or are vertically constrained. It's very important to use contractor friendly terms whenever changing flow lines or roadway cross slopes to let the field staff know that special care needs to be taken with the curb and gutter or roadway to ensure compliant ramps are built.
15. All non-compliant components need to be labeled in the ADA details. These would include flow lines, roadway cross slopes, ramp slopes, landings, ramp cross slopes, PAR dimensions, or APS criteria. When curb ramps are non-compliant label the ramp slope and ramp length to the nearest percent and half-foot, so the field staff knows what needs to be built in the field. All non-compliant features need to be included in the [ADA Design Memo](#) as well as any design alternatives that were tried during the design process.
16. For all directional ramps with the domes placed in a directional manner directional curb shall be poured when the dome setback is greater than 1'. This integral curb and gutter pour needs to be shown in the ADA details which would require the back of curb line to be removed when in front of the ped ramp.
17. 2' continuous depth dome coverage with no "step through" gap is required. The 2' is measured parallel to the path of travel; this requires that no spacing is present between domes.
18. Talked with property owners on preference of side treatments (v-curb, grading, bit patch, etc...)

ADA Plan Review Stage 1				
		DESIGN LEVEL		
Item No.	Description	L 1	L 2	L 3
1	Followed ADA Project Design Guide (PDG) and Curb Ramp Guidelines	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Followed preferred Curb Ramp Design, APS Design, Sidewalk Design and Driveway Design Criteria	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Utilized ADA Standard Legend		<input type="checkbox"/>	<input type="checkbox"/>
4	Show Right-Of-Way		<input type="checkbox"/>	<input type="checkbox"/>
5	All Surface Utilities (Shown + Field Verified)		<input type="checkbox"/>	<input type="checkbox"/>
6	20' (preferred) or 30' scale ADA details to fit an entire intersection on ONE sheet		<input type="checkbox"/>	<input type="checkbox"/>
7	Determine Crossing Locations	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8	Curb Ramps Designed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

9	Existing flow lines from 2-3% need a construction note stating to table the flow line to less than 2% either on the Tabs for level 1's or on the ADA details for 2 and 3's.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10	Flow line's over 3% need to be labeled & Include X, Y, Z or profile that brings the flow line to compliance			<input type="checkbox"/>
11	Push Button Locations, including push button table from signal guidance		<input type="checkbox"/>	<input type="checkbox"/>
12	For APS pushbuttons located on signal poles, include the APS Pole Mounting Adaptor with a note in the signal plans		<input type="checkbox"/>	<input type="checkbox"/>
13	For APS pushbuttons located on existing pedestals, ensure 3 saddle adaptors are labeled in the Plan for each pedestal		<input type="checkbox"/>	<input type="checkbox"/>
14	Contractor Friendly Terms, i.e. maintain 4" step height, match doorway threshold etc.			<input type="checkbox"/>
15	Specify all non-compliant components to nearest foot and whole percent (slopes and ramp lengths)		<input type="checkbox"/>	<input type="checkbox"/>
16	Directional curb shown properly (built integral with the curb and gutter)		<input type="checkbox"/>	<input type="checkbox"/>
17	2' Continuous Depth Dome Coverage with no "step through"		<input type="checkbox"/>	<input type="checkbox"/>
18	Talked with property owner on preference of side treatment (i.e. v-curb, grading, bit patch etc.)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

## ADA Plan Review 2

- Shall be submitted with the 60% to 90% plan, or whenever the checklist is filled out completely as described above to ensure an adequate ADA review.
- May be submitted electronically to Todd Grugel (cc: Joe Zilka) or interoffice mailed to MS 680.
- If sheets change as a result of comments from other functional groups, ADA needs to be aware of such changes.

### ITEM No.

1. ADA Pay items included in the Plan, check all that apply. See "Pay Item Guidance" in the [Project Design Guide](#) for further guidance on when to use ADA pay items.
2. Radial domes are needed for all depressed corners and fan ramps. Radial domes also need to be used when they are placed along the back of curb and over 8 LF. When radial domes are used the radius needs to be labeled either on the ADA details or tabulation.
3. Typical sections must show all sidewalk and trail cross slopes designed at 1.5%. This is to allow for construction tolerances in the field, since 2% is the absolute maximum and any cross slope over 2% is non-compliant.
4. All initial landings are required to be poured separately per the landing language in Special Provision 1803 Prosecution of Work (ADA).

**Landings** – An initial landing is the first required landing of a pedestrian ramp. All initial landings required at the top of a ramped sloped surface (>2% longitudinal slope), shall be formed and placed separately in an independent concrete pour. This does not include initial landings placed at roadway grade such as depressed corners, parallel ramps, or rural flat landings. Secondary landings consist of all landings beyond the initial landing. These secondary landings do not require a separate landing pour. All landings adjacent to push buttons shall be formed and placed separately in an independent concrete pour, regardless of ramp type.

Wet casting or drill and grouting of dowel bars will be required in accordance with the details shown in Standard Plan 5-297.250 Sheet 5 of 5. These bars may be either smooth or deformed and shall be installed with 2 inch minimum concrete cover. When not accounted for in the Plan, payment for these bars will be made under Item 2301.602 (Drill & Grout Reinforcement Bar (Epoxy Coated)) by the Each at the Predetermined Price of \$10.00 per bar furnished and installed. All necessary subgrade preparation and aggregate base placement for the entire ramp construction limit shall be done before the initial landing is constructed at each location

5. Typical sections must show all sidewalk and trail cross slopes designed at 1.5%. This is to allow for construction tolerances in the field, since 2% is the absolute maximum and any cross slope over 2% is non-compliant.
6. ADA Special Provisions must be included in all ADA Projects. This includes 1803 and all of the provisions associated with the ADA pay items in the Plan.
7. All crosswalk markings must be shown on the ADA detail sheets. The crosswalk striping or outline must match the entire width of the trail/walk or curb cut.
8. X and Y coordinates are needed for all new signal components including push button stations, cabinets, and signal poles/pedestals. One X,Y point is needed on the outside of each ramp, at the zero height curb, located on the gutter flow line.
9. Survey control/datum needs to be shown in the plan.
10. X, Y, and Z's or gutter profiles are needed for all curb and gutter modifications. These modifications can include either horizontal or vertical changes (i.e curb extensions or raising a flow line 2" to tie into a door compliantly). When the curb line needs modification the radius point needs to be shown in the plan or tabulation. 5% maximum output gutter can be used in certain instances which can gain elevation quicker. It's very important to use contractor friendly terms whenever changing flow lines to let the field staff know that special care needs to be taken with the curb and gutter to ensure compliance ramps are built.
11. Landscape/construction plans show a compliant joint detail. These details are needed for sidewalk reconstruction or streetscape projects.

ADA Plan Review Stage 2				
		DESIGN LEVEL		
Item No.	Description	L 1	L 2	L 3
1	ADA Pay Items Included in Plans	<input type="checkbox"/>		
	ADA Concrete Walk <input type="checkbox"/>	CHECK ALL ADA PAY ITEMS BEING USED		
	ADA Concrete Curb & Gutter <input type="checkbox"/>			
	Mill and Patch Bituminous Pavement <input type="checkbox"/>			
	Remove and Replace Bituminous Pavement <input type="checkbox"/>			
	Site Restoration <input type="checkbox"/>			
Drill and Grout Reinforcement Bars <input type="checkbox"/>				
2	Radial Domes are used whenever the domes are placed at the back of curb (label radius). These radial domes must be tabbed out separately from the rectangular domes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Typical Sections Shown in Plan	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	Note for all Landings to be poured separately, language matching the ADA special provisions from 1803	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	ADA Special Provisions	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6	Standard Plates, Standard Plans	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Show Striping or Outline of Striping on ADA Detail Sheet		<input type="checkbox"/>	<input type="checkbox"/>
8	X, Y for Zero Height Curb, Push Buttons Stations, and New Signal Poles		<input type="checkbox"/>	<input type="checkbox"/>
9	Survey control/Datum shown in Plan		<input type="checkbox"/>	<input type="checkbox"/>
10	X, Y, Z or radius and profile for all Curb & Gutter modifications			<input type="checkbox"/>
11	Landscape/Construction Plans show a compliant joint detail	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12	ADA Design Calculations			<input type="checkbox"/>