CHAPTER 3 3– STANDARD PLATES/ STANDARD PLANS

STANDARD PLATES

Standard plates are drawings that specify the details of items being furnished, constructed, and installed on a construction project. Anyone working on traffic control signal and lighting design projects including plan reviews, inspection, construction, or maintenance should have these plates in their possession and be familiar with them.

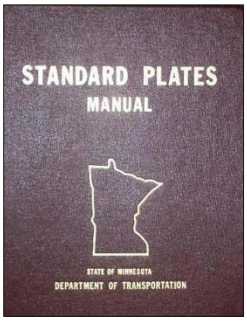

Figure 3-1: Standard Plates Manual

All standard plates are approved by MnDOT and the Federal Highway Administration (FHWA) before being issued. Therefore, they do not have to be approved on a project-by-project basis.

Although the standard plates are not physically included in the plans, they are referenced within and therefore part of the plan. The plates that apply to a specific project are listed in the "Standard Plates Chart" on the plan and are referenced using the respective plate number.

3.1 Standard Plates Manual

The Standard Plates Manual is divided into nine chapters or series with a listing presented in Table 3-1.

Table 3-1: Standard Plates Manual Series List

0000 Series – Blank This section is a numerical index of the standard plates.
1000 Series – Pavement Contains approximately 5 plates.
2000 Series – Blank Contains zero plates.
3000 Series – Culverts and Appurtenances Contains approximately 40 plates.
4000 Series – Sewer Appurtenances Contains approximately 40 plates.
5000 Series – Erosion Control Structures Contains 1 plate.
6000 Series – Blank Contains zero plates.
7000 Series – Curb, Curb and Gutter, Sidewalk Contains approximately 37 plates, including 7038 Detectable Warning Surface. These are installed at every new traffic control signal system that has pedestrian facilities. As the locations of pedestrian cross walks and stop bars directly affect the locations of the signal components (i.e. mast arm poles standards, handholes, loop detectors, etc.), they are critical.
8000 Series – Barricades, Signals, Markers, Etc. Contains approximately 37 plates, many used in traffic control signal and lighting construction.
9000 Series - Miscellaneous Contains about 11 plates and covers everything from Approaches and Entrance to minimum standards for barbed-wire fence.

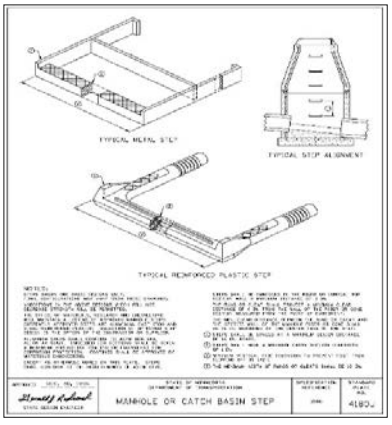

Figure 3-2: 4000 Series Example

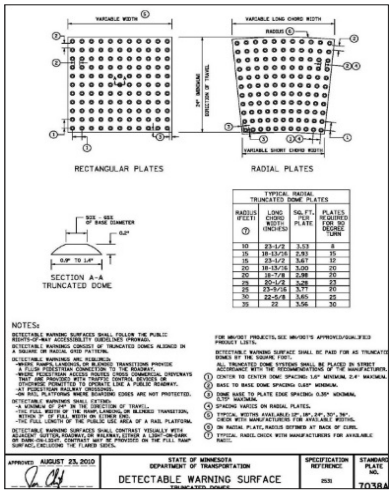

Figure 3-3: 7000 Series Example

Standard plan sheets 5-297.250 sheets 1 – 6 should be included in every traffic control signal system project that constructs pedestrian curb ramps.

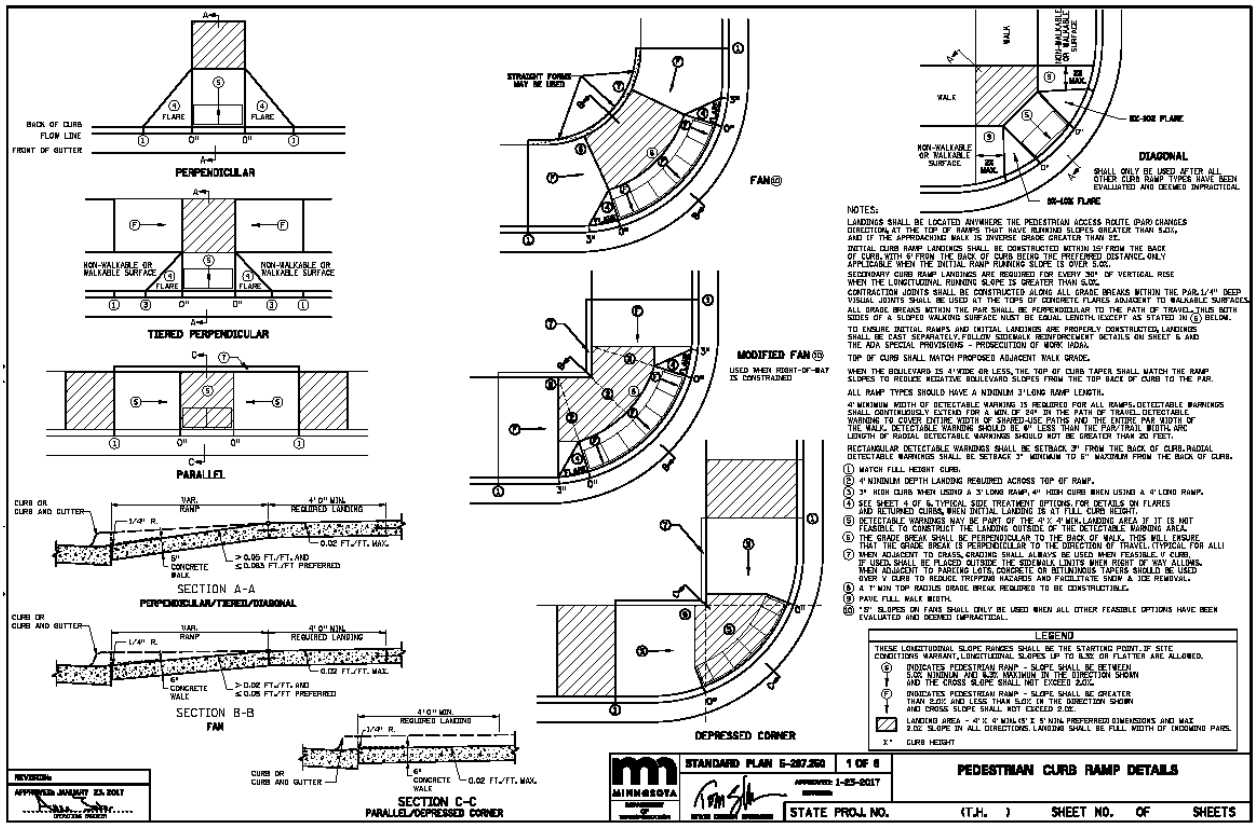

Figure 3-4: 7000 Series Example

The Standard Plates Manual is frequently updated as design practices and technology changes. As the document is frequently updated, if a manual is purchased, any revised plates can be acquired when MnDOT distributes them. When a revised standard plate is received, the new plate must be added and old one removed from the Standard Plate Manual. Revised standard plates can also be downloaded from the MnDOT website.

3.2 Chapter 3 Resources

All up-to-date individual MnDOT standard plates are freely downloaded at this address:

https://standardplates.dot.state.mn.us/StdPlate.aspx

The Standard Plates Manual (and other publications such as the MnDOT Standard Specifications for Construction) can be obtained from the MnDOT Maps and Manual Sales Unit located in the Transportation Building in the Capitol Complex. They can be reached at telephone number **651-366-3017**.

The Standard Plans can be accessed at this address:

https://standardplans.dot.state.mn.us/