Technical Commentary
for
Standard Plan B-30.90
Miscellaneous Details for Drainage Structures

General Information

Background

Flat Slab Tops: The flat slab tops are shown with three possible opening configurations. The rectangular opening is used in catch basin applications. The smaller circular opening is used in either catch basin or manhole applications. The larger circular opening is used in applications where the diameter of the catch basin or manhole decreases at some height above the pipe inverts. This configuration is shown on B-15.40.

Adjustment Sections: The adjustment sections are placed on top of the catch basin or manhole and are used to establish the final grade elevation of the frame and grate or ring and cover.

Eccentric/Concentric Cone Sections: The cone sections are used to transition a manhole or catch basin riser section to the diameter necessary to accept a ring and cover. Cone sections are available with either a concentric or eccentric shape, but the eccentric shape must be specified when it is necessary to provide access into the structure.

Ladders and Steps: The specifications and requirements for ladders and steps are described in AASHTO M 199. Rigid ladder requirements are listed WAC 296-155-480 and WAC 296-24-810.

Updates / Comments

In October 1996, information from Standard Plan B-24 (Miscellaneous Manhole Details) was combined with information from the old version of B-1z (Miscellaneous Catch Basin Details) to form the new Standard Plan B-1z, Miscellaneous Catch Basin and Manhole Details. The new version of B-1z provides details for the B-1 series of catch basins, the B-23 series of manholes, and B-26.

In August 2006, all the B series Standard Plans were renumbered and similar items were grouped. The numbering system changed from an alpha-numeric-alpha system to
an alpha-numeric-decimal system. Standard Plan B-1z became B-30.90 and was renamed Miscellaneous Details for Drainage Structures

**Applicable Specifications**

- **7-05** Manholes, Inlets, Catch Basins and Drywells
- **9-04.3** Joint Mortar
- **9-05.15(1)** Manhole Ring and Cover
- **9-05.15(2)** Metal Frame, Grate and Solid Metal Cover for Catch Basins or Inlets
- **9-12.4** Precast Concrete Manholes
- **9-12.5** Precast Concrete Catch Basin

**Referenced Standard Plans**

- **B-5 Series** Catch Basin
- **B-30 Series** Rectangular and Circular Frames and Grates
- **B-15 Series** Manholes
- **B-25-60** Concrete Inlet

**Other Information**

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