



Washington State Department of Transportation



American Public Works Association
Washington State Chapter

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 multiple 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 openings are 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 296-56-60209 and WAC 296-876-60065.

Updates / Comments

For revision history see <http://www.wsdot.wa.gov/Design/Standards/ManualArchive.htm>

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
- 9-05.50(2) Manholes
- 9-05.50(3) Precast Concrete Catch Basin

Referenced Standard Plans

- B-5 Series Catch Basins
- B-15 Series Manholes
- B-30 Series Rectangular and Circular Frames and Grates

Other Information

This commentary sheet is maintained by Headquarter's Hydraulics Office. Please send any suggestions for additions or modifications to:

Postal
Transportation Building
P.O. Box 47329
Olympia, WA 98504-7329
Attn: Julie Heilman

E-mail
Heilmaj@wsdot.wa.gov

Last Updated: October 2, 2017