

**DESIGN STANDARDS  
AND  
SPECIFICATIONS POLICY**

**CITY OF BOZEMAN, MONTANA**



**CITY ENGINEERING DIVISION**

**MARCH 2004**

ADOPTED: April 5, 2004, Ordinance 1611

Including: Addendum No. 1 approved 7/19/05  
Addendum No. 2 approved 6/28/06  
Addendum No. 3 approved 2/20/08  
Addendum No. 4 approved 3/31/11  
Addendum No. 5 approved 8/26/13  
Addendum No. 6 approved 5/1/17  
Addendum No. 7 approved 3/13/20

## II. DRAINAGE POLICY

### A. GENERAL DESIGN CRITERIA

A Stormwater Drainage Plan is required for all new developments. The following criteria shall be used in the design of all Drainage Plans:

1. The stormwater drainage plan shall be designed to limit stormwater runoff from the development site to the pre-development runoff rates. The pre-developed rate calculations shall be included as part of the required facility design calculations. Adequate on-site stormwater detention shall be provided for design storm runoff exceeding the pre-development rate.
2. The stormwater storage and treatment facilities shall be designed to remove solids, silt, oils, grease, and other pollutants. Where required, oil/water separators shall be provided in the facility design.
3. Where the storm drainage plan includes storm sewers they shall meet the following minimum requirements:
  - a. Alignment between manholes shall be straight.
  - b. The sewers shall be uniformly sloped to maintain a minimum velocity of 3-fps at the design storm depth of flow, or when flowing full, to prevent sediment deposits.
  - c. Pond inlet and outlet piping shall be protected and designed to prevent erosion (i.e. splash pads, rip rap, etc.).
  - d. Publicly maintained storm sewers located in the public right-of-way shall be constructed of reinforced concrete pipe (RCP), ~~or solid wall or corrugated~~ **SDR-35 PVC pipe, or Schedule 40 PVC pipe** complying and installed in accordance with the current edition of MPWSS as modified by the COB. PVC pipe may only be used for pipe sizes of 36" diameter or less. Other pipe materials may be considered for private storm sewer facilities. Use 12-inch minimum pipe size for inlet structures and 15-inch minimum pipe size within the storm drain system.
  - e. Storm sewer facilities shall be designed to handle a 25-year storm event.
  - f. Inlets and manholes shall have 9-inch sumps for sediment collection unless otherwise approved by the City Engineer.