

PUBLIC WORKS

Missoula City Public Works Standards and Specifications Manual, 2nd Version

Effective December 1, 2021



Purpose of PW Manual

- Provides comprehensive document for developers, contractors & engineers
- Establishes design & construction standards for City-owned and maintained infrastructure

Where is it located?

- <http://www.ci.missoula.mt.us/2708/42401/Public-Works-Standards-Specifications-Manual>
- Latest Version – Adopted December 1, 2021



Chapters

- Introduction
- Chapter 1 – General Provisions (Not complete)
- Chapter 2 – Construction within the Right-of-Way (**New!**)
- Chapter 3 – Improvement Plans
- Chapter 4 – Water System
- Chapter 5 – Sanitary Sewer System
- Chapter 6 – Storm Water System
- Chapter 7 – Transportation System
- Chapter 8 – Erosion Control

Major Changes Impacting Construction

Chapter 2 – Construction within the Right-of-Way

- Section 2.3.2 - Pre-Construction Meeting
 - Required for any project constructing public infrastructure
- Section 2.3.3 - Weekly Construction Documentation
 - Construction photos, test results for utilities – Send to Project Engineer
- Section 2.4.2 - Maintenance Bonds
 - 20% of total value of public infrastructure.
 - Required when total value of public infrastructure is greater than \$50,000
 - 2-year period after acceptance of all public infrastructure
 - Commencement date set at completion of improvements stated in the Subdivision Improvements Agreement, date of Substantial Completion, or the date of the Final Plat (whichever is later).
 - If expiration date falls after November 16, it shall extend to June 30.
 - Surety Bond, CD, Certified Check, or Irrevocable letter of Credit
- Section 2.7 – Requirements for Private Utility Mains in the Right-of-Way

Major Changes Impacting Construction, Cont'd.

Chapter 4 - Water

- Section 4.2.4.I - Added a requirement that flat rate properties, or properties with inaccessible meters, have a meter pit be installed if a water service repair permit is requested.
- Section 4.3.1.C. - Clarified insulation requirements.
 - 2-in for each foot less than 6-ft and 2-in per foot of horizontal distance less than 6-ft from manhole, dry well
- Section 4.3.7.D.3 – Multiple Service Taps
 - Minimum distance between taps = 12-in ductile iron, 18-in steel, 36-in PVC.
 - Multiple taps on PVC shall be staggered around the circumference of the main
- Minimize flange connections
- Tapping Procedures – All taps on existing mains – Contractor to provide saddle/sleeve, Msla Water performs the work. Fees updated to reflect this

Chapter 5 - Sewer

- Updated STEP Manual – Appendix 5-A
- No longer require flexible couplers outside of manhole

Major Changes Impacting Construction, Cont'd.

Chapter 6 – Storm Water

- Allows for 2-ft stub out of manholes
- TV inspection required for new or repaired stormwater mains
 - Deficient if alignment is outside of specified limits or pipe has visible defects.

Chapter 7 – Transportation System

- Section 7.3 – New Traffic Control Section
- Section 7.4.1.B – Added a section requiring chip and seal for all arterial and collector roadway asphalt improvements of ½ street with or greater and City block or greater. Must be completed before end of two-year warranty
- Section 7.4.9.B. – Added language regarding timing and requirements for temporary, interim and final pavement markings to comply with MDT specifications
- Require composite taper grade rings for manhole/inlet structures in the roadway

No extended 5-Year Warranties for inadequate infrastructure or missing utility photos

Major Changes Impacting Construction, Cont'd.

Standard Drawings

- STD-200 – Temporary Access to Construction Sites – Now STD-653
- STD-405 – Valve Detail – No unrestrained joints within 36-ft of inline valve
- STD-408 – Hydrant Detail – MJ x Swivel Tee
- STD-415 – Typical Valve Location Detail – MJ Valves located at r/w of curb
PC
- STD-744 – Asphalt Cutting, Removal, Replacement - increase minimum patch width to 4-ft, requires tack coat on curb, seal asphalt joints

Utility and Engineering Inspection Hotline

- Schedule using the IVR (Interactive Voice Response) system
 - <https://www.ci.missoula.mt.us/DocumentCenter/View/56485/Missoula-MT-Utility-and-Engineering-Inspections-Trifold>
 - Call 406-552-6040

Upcoming Changes

PWI Permit

- Using Accela Automation, the City plans to automate the Public Works Infrastructure Stage Process similar to building permits.
- New permit will be a PWI (Public Works Infrastructure) Permit
 - Example: 2022-MSS-PWI-00001.
- The PWI permit will not replace individual engineering permits (RWC, EXC, WTR, SWR, STM, PAV)
- Rollout is anticipated sometime in 2022 and will most likely include changes to the Stage Process.

MPWSS 7th Edition

- Next Fall - Will be adopting the latest version (7th Edition) of the Montana Public Works Standard Specifications
 - Currently working on City Modifications