

Final site inspection with City Staff, accurate validated final as-built drawings (.pdf and ACAD), remaining passing test results, and receipt of all required surface related construction closeout documents trigger the final project acceptance. In only some cases, a **conditional acceptance** is granted when utility (water, sewer, or other project improvements) infrastructure needs related surface completion or other circumstances are identified and approved by City Engineer or City project leads. In this event, the Stage 5 checklist submittal deems conditional acceptance, and will still **require** submittal of the Stage 6 packet herein for the installed utility. The outstanding utility, surface, or other improvements that are not yet completed will be documented on the transmittal letter submitted with this Stage 6 packet. Lastly, the warranty period for the infrastructure that has been conditionally accepted will begin, but may be extended, when all Stage 6 requirements for **all infrastructure** (water, sewer, storm water, surface, and other) has been satisfied.

1. Before requesting a final construction inspection by City Engineering, the developer's representative shall conduct an independent final construction inspection. After completing the independent inspection, notify the contractor of all identified deficiencies or defects, where the contractor is responsible for correcting all deficiencies or defects. Next, the developer's representative requests to schedule a final construction inspection with City Engineering. *Stage 5 submittals must be stand-alone and will no longer be accepted as a combined submittal with Stage 6.* During the scheduled final construction inspection with the developer's representative, City Engineering will generate a punch list, as applicable, and provide a copy of the punch list to developer's representative.
2. Developer's representative is responsible for notifying City Engineering **in writing** that all punch list items have been satisfied and completed.
3. Developer's representative shall submit all requested items listed on the Stage 6 Checklist, certifying that the public improvements were installed in accordance with the plans and specifications. Signature on this Stage 6 checklist is also referred as the "Certificate of Completion."
4. The warranty period, typically 2 years, will not begin until acceptable "As-Built" drawing files have been successfully received and accepted.
5. Developer's representative is required to coordinate with City Project Lead in order to determine if contact with any other applicable City agencies, such as the Parks Department, Building Division, or Fire Department, for final inspections. City Engineering requires documentation from these agencies, as applicable, prior to acceptance of a project.

Acceptance or Denial of Stage 6

The Developer's Representative/Engineer of Record will receive a Project Acceptance notice that defines the warranty period and any subsequent necessary action items. If a conditional acceptance notice is granted, the City sends a "Conditional Project Acceptance" notice that documents the next steps required for the project or development to obtain "Project Acceptance" status.

If Stage 6 is denied, an email to the Developer's Representative/Engineer of Record will be transmitted that identifies outstanding items that need completion.

Proceed to Stage 7, Final Inspection and Acceptance commensurate with defined warranty period



FINAL INSPECTION and ACCEPTANCE CHECKLIST

STAGE 6

This checklist is a guide to meet *Missoula City Public Works Standards and Specifications Manual*, specific regulations (Titles 12 & 17(Articles 3, 5, and 9), and other minimum requirements that will enable City Staff to adequately review and approve submitted documents required for this stage.
(This checklist is not all inclusive, other information may also be required)

Project Name: _____

City Project # (**MUST** be provided): _____

Developer’s Representative Name/Contact Info: _____

Developer’s/Owner Name/email/Contact Info: _____

Date Submitted: _____

Plans Submitted (“x” as applicable): _____ Surface _____ Sewer _____ Water _____ Storm

Other (specify) _____

STAGE NUMBER	STAGE PROCESS
1	Project Development/Initiation
2	Conceptual Design Review
3	Preliminary Construction Plan Review
4	Release for Construction (RFC) Plan
5	Inspection and Testing
6	Final Inspection and Acceptance
7	Warranty Inspection

REQUIRED SUBMITTAL DOCUMENTATION

Do not leave boxes blank; ALL BOXES MUST BE CHECKED (X or v) or N/A as appropriate

FINAL INSPECTION AND ACCEPTANCE

All documents shall be submitted as a single bookmarked pdf, using the formatting and file-naming conventions described below. Any submittals that have not been properly organized will be returned for resubmittal.

_____ Stage 6 Checklist completed and signed by Preparer/Developer's Representative

_____ Conditional acceptance granted in Stage 5 (yes/no)

_____ If **conditional acceptance** was granted in Stage 5, written verification from City staff that open or outstanding items have been deemed acceptable and conditional acceptance status has changed to **accepted status**

_____ For **water and sewer main extensions**, DEQ letter and as-builts sent that certifies project as complete; if previously submitted in stage 5, denote here _____

_____ **Final As-Built Plans, (COMPLETE SET)**, which include **ALL** easements (including; public/private utility, storm drainage/runoff, public/private access, right-of-way, etc.), including and in addition to existing easements for this project.

_____ **Final service stub-out record drawings.** USE OF CITY'S FORMAT/ELECTRONIC SUBMITTAL REQUIRED - WILL BE REJECTED IF NOT COMPLETED CORRECTLY – legal permit number, signature, date, etc. This includes sanitary, water, STEP, and storm water.

_____ Compaction testing of all improvements installed within the public right-of-way, public access easements, and public non-motorized access easements

_____ Materials testing (concrete testing, asphalt testing, proctors, gradations, etc.)

_____ Project logs/inspection reports

_____ Approved submittals for all materials used on the project (including gravel, pipe, and appurtenances and any other mechanical equipment)

_____ Pertinent construction photos of all connections, valves, bends, hydrants, etc., before and after polywrap, after thrustblock with whiteboard w/date, station and fitting description. If previously submitted in stage 5, denote here _____

_____ If applicable, a cashier's check for chip and seal or epoxy striping is required for a subdivision with any public street improvements such as hot-mix asphalt paving

_____ Written verification completion of all punch-list items

_____ Final Storm Water Operation & Maintenance Manual

_____ City Storm Water Permit-Notice of Termination (NOT); NOT and NOT Confirmation Letter from DEQ if a General Permit/Storm Water Pollution Prevention Plan (SWPPP) was required; if final stabilization has not been achieved, then indicate date when final stabilization is anticipated, pay renewal fees as required and submit NOT(s) within 30 days of final stabilization.

_____ SWPPP inspection logs

DIGITAL / ELECTRONIC AS-BUILT FILES REQUIRED – (GIS)

1. Lot/Parcel Layout/Easements and Streets

2. Sanitary Sewer

3. Water Utility

4. Storm Drainage

5. Combined Overview

DIGITAL DATA REQUIREMENTS

File Formats Included:

_____ Adobe Acrobat®*.PDF containing ALL RFC Plans drawings, bookmarked.

_____ Autodesk® AutoCAD™ *.DWG format

_____ ESRI® ArcMap™-compatible format file

_____ Other: _____

File Names:

File names should contain the prefix associated with the utility type followed by the suffix containing the city file number. **Utility Prefix + Project Number = Filename**

1. Lot/Parcel Layout/Easements and Streets: *“surface-city file number”*

2. Sanitary Sewer: *“ss-2020-036”*

3. Water Utilities: *“w-2020-036”*

4. Storm Drainage or Storm Water: *“sw-2020-036”* or *“sd-2020-036”*

5. Combined Overview: *“combined-2020-036”*

Deliverables: All digital files shall be compressed together in .zip or .rar format using the city project file number followed by the project name followed by the stage number (ex. 2020-036_Stage3), and individual files using the above naming convention.

Coordinate System

- Un-projected files or files with incorrectly applied projections will be rejected.
- Note: The City only requires that digital data be submitted in state plane grid. It is unnecessary to submit at ground.

Accuracy Requirements:

Please note that Stage 5 accuracy requirements are the same as those in Stage 6 and are as follows:

- Submission must be accurate to **1/10th of a foot**. These items include all utilities and property corners within the project area or effected in the project.
- All submissions must be referenced to the National Spatial Reference System (NSRS) and comply with Montana Code Annotated, Title 70, Chapter 22, Part 2. For local control points tied to the NSRS contact the Missoula County Surveyors Office.
- If derived from GNSS measurements, the submission must use and note the geoid model used. Valid models for our areas include:
 - GEOID18
 - GEOID12A
 - GEOID12B

1) Lot / Parcel Layout / Easements and Streets

- | | |
|--|---|
| <input type="checkbox"/> Lot / Parcel Lines | <input type="checkbox"/> Sidewalks |
| <input type="checkbox"/> Lot Numbers | <input type="checkbox"/> Curbs |
| <input type="checkbox"/> Street Centerlines (New & Existing) | <input type="checkbox"/> All easements related to the project, new and existing. Book and page number required. |
| <input type="checkbox"/> Street Names (New & Existing) | |

2) Sanitary Sewer Utilities

- | | |
|--|---|
| <input type="checkbox"/> Sanitary Sewer Utilities (New and existing) | <input type="checkbox"/> Street names on new and existing streets; |
| <input type="checkbox"/> Lot lines; | <input type="checkbox"/> All utility easements related to the project, new and existing |
| <input type="checkbox"/> Lot numbers; | |

3) Water Utilities

- | | |
|--|---|
| <input type="checkbox"/> Water Utilities (New and existing) | <input type="checkbox"/> All utility easements related to the project, new and existing. Book and page number required. |
| <input type="checkbox"/> Lot lines; | |
| <input type="checkbox"/> Lot numbers; | |
| <input type="checkbox"/> Street names on new and existing streets; | |

Storm Water Utilities

- Storm Water Utilities (New and existing)
- Lot lines;
- Lot numbers;
- Street names on new and existing streets;

- All utility easements related to the project, new and existing. Book and page number required.

4) Project Overview

- Sanitary Sewer
- Water Utilities
- Storm Water Utilities
- Lot / Parcel Lines
- Lot Numbers
- Street Centerlines (New & Existing)
- Street Names (New & Existing)
- Sidewalks
- Curbs
- All easements related to the project, new and existing. Book and page number required.

DEVELOPER REPRESENTATIVE'S ACCEPTANCE AND CERTIFICATE OF COMPLETION FOR SURFACE INFRASTRUCTURE

SURFACE INFRASTRUCTURE

1. The final inspection was performed with the City on: _____
2. Name of City Inspector(s): _____
3. The materials, proctors, asphalt, concrete, compaction test reports, etc., are enclosed. The following details any exceptions or follow up action taken:

4. The following information is required for surface infrastructure projects. **DO NOT CHANGE THIS FORM**, and REPORT QUANTITIES ONLY IN REQUESTED UNITS, NO EXCEPTIONS. All actual construction (as-built) quantities and associated costs of all **PUBLIC** right-of-way/easement surface infrastructure, for Federal Audit reporting, to include:

MOTORIZED TRANSPORTATION:

Embankment: _____ c.y. @ cost \$ _____ of earth work / sub-grade

Excavation: _____ c.y. @ cost \$ _____ of earth work / sub-grade

Base: _____ c.y. @ cost \$ _____ of base

Sub-base: _____ c.y. @ cost \$ _____ of sub-base

_____ s.f. @ cost \$ _____ of asphalt paving in public street

_____ s.f. @ cost \$ _____ of asphalt paving in private street

_____ s.f. @ cost \$ _____ of asphalt paving in alley

_____ s.f. @ cost \$ _____ of concrete paving in approach(es) /apron(s) & driveway(s)

_____ l.f. @ cost \$ _____ of concrete curb/gutter

_____ ea. @ cost \$ _____ of traffic management signage

_____ ea. @ cost \$ _____ of traffic management lights / signals

_____ l.f. @ cost \$ _____ of traffic management striping

_____ @ cost \$ _____ of motorized transportation;

other: _____

DEVELOPER REPRESENTATIVE'S ACCEPTANCE AND CERTIFICATE OF COMPLETION FOR SANITARY SEWER, WATER, AND STORM WATER INFRASTRUCTURE

1. If requesting a sewer rebate, this request must be made separately to the City Engineering Division, in writing, within 30 days after the City's acceptance and approval of an installed sanitary sewer main. A separate form is available upon request and must be used to set up the rebate.
2. For more information on the sewer rebate process, refer to the link on the Stage 6 Summary.
3. Date PreCon meeting(s) held _____
4. The final inspection was made with the City on: _____
4. The City inspector(s) was/were: _____
5. Digital copies of the following items are included for review; if previously submitted, please denote

_____ All test results for compaction
_____ All test results for materials (concrete testing, asphalt testing, gradations, etc.)
_____ All test results for air, deflection, TV, lamp, vacuum, electrical, and tank leakage (unless previously submitted)
_____ Photographs of all manhole inlets and outlets, including location, and/or tank connections (hard copy and digital)
_____ All test results for water main pressure testing and Bacti testing.
_____ Pertinent construction photos of all connections, valves, bends, hydrants, etc., before and after polywrap, after thrustblock with whiteboard w/date, station and fitting description
_____ Information from suppliers and recommended installation practices and OEMs
_____ Developer Representative/inspector's logs
_____ Copy of Certification Letters sent to the Department of Environmental Quality
_____ Confirmation that copies of all public utility easements have been recorded at the Missoula County Clerk/ and Records Office for this project
_____ Confirmation that copies of the Private Storm Water Facility Maintenance Covenant and Access Easement have been recorded at the Missoula County Clerk and Records Office for this project
_____ Final Storm Water Operation & Maintenance Manual

6. The materials, proctors, asphalt, concrete, compaction test reports, etc., are enclosed. The following details any exceptions or follow up action taken:

7. The following footages of public sanitary sewer main were installed at the stated costs:

2 inch _____ l.f. @ cost \$ _____
4 inch _____ l.f. @ cost \$ _____
6 inch _____ l.f. @ cost \$ _____
8 inch _____ l.f. @ cost \$ _____
10 inch _____ l.f. @ cost \$ _____
12 inch _____ l.f. @ cost \$ _____
_____ l.f. @ cost \$ _____
_____ l.f. @ cost \$ _____

8. The following footages of public storm water main were installed at the stated costs:

12 inch _____ l.f. @ cost \$ _____
14 inch _____ l.f. @ cost \$ _____
15 inch _____ l.f. @ cost \$ _____
18 inch _____ l.f. @ cost \$ _____
_____ l.f. @ cost \$ _____
_____ l.f. @ cost \$ _____
_____ ea. @ cost \$ _____ of storm water dry well(s)

9. The following quantities of Storm Water Pollution Prevention (SWPPP) measures at the stated or lump sum costs:

_____ @ cost \$ _____ of storm water management;
other: _____

10. The following footages of public water main were installed at the stated costs:

4 inch _____ l.f. @ cost \$ _____
6 inch _____ l.f. @ cost \$ _____
8 inch _____ l.f. @ cost \$ _____
10 inch _____ l.f. @ cost \$ _____
12 inch _____ l.f. @ cost \$ _____

16 inch _____ I.f. @ cost \$ _____
 18 inch _____ I.f. @ cost \$ _____
 _____ I.f. @ cost \$ _____
 _____ I.f. @ cost \$ _____

11. Compaction testing of utilities installed within public right-of-way, public access easements, and public non-motorized access easements.

OTHER INFRASTRUCTURE REQUIREMENTS – (as applicable)

12. If applicable, documentation (letter, email, photographs, etc.) is attached or included, that the following additional City of Missoula agencies and related interested parties have approved the pertinent requirements, including but NOT limited to:
- _____ Date Missoula Water PreCon meeting held _____
 - _____ City Parks and Recreation Department (*boulevard trees, sprinkler systems, parks, open spaces, etc.*)
 - _____ City Fire Department (*fire protection/combustible construction, hydrants, equipment/fire truck access, etc.*)
 - _____ City Police Department (*life safety issues, emergency services access, property and structure(s) visibility, etc.*)
 - _____ City Building Division (*structure/construction, code requirements, etc.*)
 - _____ City Planning (*zoning, subdivision regulations, conditions of approval, boulevard improvements, floodplain administrator, etc.*)
 - _____ City-County Health Department (*air quality, water quality, food service, etc.*)
 - _____ Missoula Parking Commission (*Central Business District (CBD), University Parking District*)
 - _____ Missoula County Public Works Department (*overlapping projects, generally dry-laid sanitary sewer*)
 - _____ Mountain Line (*bus structures and access*)
 - _____ Missoula Redevelopment Agency (MRA)
 - _____ Montana Department of Transportation (MDT) (*Federal and State motor vehicle/transportation routes*)
 - _____ University of Montana (UM) (*University-related projects*)
 - _____ Montana Rail Link (MRL)
 - _____ Irrigation/Ditch Company District
 - _____ Other

Project Acceptance and Certification for Water, Sanitary Sewer, Storm Water, and Storm Water Pollution Prevention Plan

I certify that this project was installed in accordance with the approved plans and specifications, all punch-list items have been completed and accepted, the water, sewer, and storm water project is complete.

I have reviewed all information and to the best of my knowledge, all requirements have been satisfied and this submittal is true and accurate.

APPLICANTS CERTIFICATION:

Developer Representative's Signature

Date of Certification

(Signature and Date are required for City of Missoula Acceptance)