

The following standard specification is intended to be edited according to the specifics of the project. Brackets [] and areas shaded in gray [e.g. format] indicate requirements that are optional depending upon the type of system being provided or per instructions associated with the [] and project requirements. Consult with University's Representative and campus stakeholders.

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SECTION 33 08 10 COMMISSIONING OF WATER UTILITIES

PART 1 - GENERAL

1.1 SECTION INCLUDES

- A. Acceptance checklist for commissioning of water utilities prior to putting water lines into service.

1.2 RELATED SECTIONS

- A. Section 01 33 23 Shop Drawings, Product Data and Samples
- B. Section 01 91 00 Commissioning
- C. Section 33 11 00 Water Utility Distribution Piping
- D. Section 33 12 13.13 Backflow Preventers
- E. Section 33 13 00 Disinfection of Domestic Water Piping

1.3 SUBMITTALS

- A. See Section 01 33 23 Shop Drawings, Product Data and Samples for submittal procedures.
- B. Submit **Form XXXX of Section XX XX XX** with all items on checklist completed, prior to commissioning.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION

3.1 COMMISSIONING CHECKLIST

- A. Submit a copy of contract drawings marked up to show interim "As Built" conditions to the University's Representative for review with University Facilities Management Engineering Services. These drawings shall include valve and hydrant numbers.
- B. Conduct a job site meeting with the University's Representative, Contractor, and University Utility staff to review the Commissioning Checklist.
- C. Field verify that the interim "As Builts" are correct, the water system was installed per contract, all utility structures and control points are marked and numbered per the interim "As Builts".
- D. Field verify that all valve boxes are set to grade, properly labeled and painted.
- E. Provide documentation that all fire hydrants have been flow tested and accepted by the University Fire Department.
- F. Field verify that all fire hydrants are set to grade, properly labeled and painted.
- G. Verify that pipelines have passed hydrostatic and leakage tests per section 33 11 00 Water Utility Distribution Piping.
- H. Verify meters have been calibrated and documentation submitted.
- I. Obtain final water and electric meter readings when Contractor is no longer responsible for the utility use.

- J. Verify backflow devices have been tested, passed and documentation submitted per **Section 33 12 13.13 Backflow Preventers**. Verify they have been painted and insulation blankets provided as required.
- K. Verify pipelines have been flushed and passed disinfection per section 33 13 00 Disinfection of Domestic Water Piping.
- L. Verify all utility structures in active construction areas have been adequately marked, protected, and kept accessible to University at all times.
- M. Verify that all temporary water connections have been removed or left as agreed by University's Representative.
- N. Provide copies of Operations and Maintenance manuals as required.
- O. Provide spare parts and special tools as required.
- P. Provide training as required.
- Q. Utility Activation
 - 1. Contractor must submit a written utility activation request at least 5 days prior to the requested date of activation. The request must clearly indicate which lines or systems are being requested to be placed into service.
 - 2. List any remaining work to be completed and the anticipated date of completion in the utility activation request.
 - 3. Conduct a job site meeting with the University's Representative, Contractor, and University Utilities staff.
 - 4. Review the utility activation request, the Commissioning Checklist and verify all items have been completed or incomplete items are listed in the utility activation request.
 - 5. Review any special considerations for activating the utility.
 - 6. Utilities staff will activate the utility after all of the commissioning items have been completed.

END OF SECTION 33 08 10