

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 30 COMMISSIONING OF SANITARY SEWER UTILITIES

### PART 1 - GENERAL

#### 1.1 SECTION INCLUDES

- A. Acceptance checklist for commissioning of sanitary sewer utilities prior to putting sewer lines and small package sanitary sewer pumping stations into service.

#### 1.2 RELATED SECTIONS

- A. ADD SECTION WHERE EXHIBIT FORM WILL BE LOCATED

#### 1.3 REFERENCES (NOT USED)

#### 1.4 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 by University Facilities Management Engineering Services. These drawings shall include valve and hydrant numbers. Hold a meeting at the job site with the University's Representative, the Contractor, and University Utility staff to review the Commissioning Checklist.
- B. Field verify that the interim "As Builts" are correct, that the sewer system was installed per contract, that all utility structures and control points are marked and numbered per the interim "As Builts".
- C. Field verify that all manholes and cleanouts are set to grade and properly labeled.
- D. Verify that manholes have been visually inspected, leak tested and passed.
- E. Verify that gravity pipelines have been leak tested and passed.
- F. Verify that pipelines have been flushed.
- G. Verify that gravity pipelines have been deflection tested and passed.
- H. Verify that gravity pipelines have been television inspected and passed.
- I. Verify that force mains have passed hydrostatic and leakage tests per section 33 31 00 Sanitary Utility Sewerage Piping.
- J. Verify that pump stations have been performance tested and passed.
- K. Verify that pump station wet wells have been leak tested and passed.
- L. Verify that flow meters have been calibrated.

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- M. Verify all utility structures in active construction areas have been adequately marked, protected, and kept accessible to University staff at all times.
- N. Verify that all temporary sewer connections have been removed or left as agreed by University Utilities staff.
- O. Provide copies of Operations and Maintenance manuals as required.
- P. Provide spare parts and special tools as required.
- Q. Provide training as required.
- R. Utility Activation.
  - 1. The 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. Hold a meeting at the job site 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 30