

SECTION 01010

SUMMARY OF WORK

PART 1 GENERAL

1.01 SCOPE

- A. The purpose of this document is to present the City of Loveland minimum criteria for the construction of 18-inch diameter and larger storm sewer mains, and their elliptical, arch or box equivalents, laterals, and all appurtenances associated with these mains and service lines. It is for the use of owners, developers, design engineers, and contractors as guidelines for the construction of said mains, laterals, and appurtenances.
 - 1. Public storm sewer lines smaller than 18 inches will not be allowed, unless accepted by the City.
 - 2. General layout and features of the storm sewer collection system shall conform to drawing 01010-1 included at the end of this section. Specific features of each system that are acceptable to the City will be determined on a case-by-case basis.
- B. These specifications are intended to be sufficiently detailed to provide adequate definition of the work to be performed and to ensure the quality of that work.
 - 1. The Contractor shall be thoroughly familiar with the provisions and the content of these Specifications.
- C. These specifications are composed of written Material Specifications and Standard Drawings.
 - 1. Every attempt will be made to avoid conflicts between standards and drawings during design.
 - 2. When requested in writing, the City shall provide a letter of interpretation.
 - 3. Written requests for variances should be directed to the City.
- D. In the event that a conflict between storm mains and laterals and other utilities is identified during construction, the Owner/Developer or Contractor shall contact the City to interpret these specifications or to determine if the standards of other utilities or departments apply.

1.02 SPECIFICATION DOCUMENTS

- A. Standards by Others
 - 1. Water distribution systems: City of Loveland Water/Wastewater Standards.
 - 2. Sanitary sewer systems: City of Loveland Water/Wastewater Standards.

3. CDOT STANDARDS — Colorado Department of Transportation Standard Specifications for Road and Bridge Construction.
4. LCUASS – Larimer County Urban Area Street Standards (LCUASS), as amended.

B. Definitions.

1. AASHTO — American Association of State Highway and Transportation Officials.
2. ACI — American Concrete Institute.
3. ANSI — American National Standards Institute.
4. ASTM — American Society for Testing and Materials.
5. AWWA — American Water Works Association.
6. ABILITY — that which a person who can do on the basis of present development and training.
7. CITY — City of Loveland Public Works Department or designated representative.
8. CITY CODE – The latest officially adopted City Code Regulations of Loveland, Colorado.
9. COMPETENT — a person who has the natural powers, physical or mental, to meet the demands of a situation or work; the word is widely used to describe the ability to meet all requirements, natural, legal, or other, of a given task.
10. CONTRACTOR — any person or firm performing or managing construction work at a construction site, including any construction manager, general contractor, or subcontractor. Also includes, but not limited to, earthwork, paving, building, plumbing, mechanical, electrical, or landscaping contractors, and material suppliers delivering materials to the site.
11. CONSULTANT — the partnership, corporation, or individual who is hired by the owner and is empowered to act as their agent for the project.
12. CONSTRUCTION DRAWINGS — detailed and working drawings, including plan, profile, and detail sheets of proposed utility improvements, accepted by the various City Departments.
13. DESIGN ENGINEER — the partnership, corporation, or individual who is registered as a professional engineer, according to Colorado statutes, and who is hired by the owner, and is empowered to act as their agent for the project.
14. DEVELOPER/OWNER – The person or persons, public or private, legally responsible for construction of improvements within a specific subdivision, planned unit development, or City funded capital or maintenance project.

15. CITY INSPECTOR— the person or persons authorized by the City Manager of Loveland to inspect work for conformance to required specifications.
16. LATERAL — all pipe, fittings and appurtenances for conveying storm water from the premises to the trunk line as applicable.
17. MAY – A permissive condition. No requirement for design or application is intended.
18. OSHA — Occupational Safety and Health Administration.
19. OR APPROVED EQUAL — as approved to being equal to the specifications by the City.
 - a. Reference Section 01600.
20. OWNER — the developer, corporation, association, partnership, or individual who has entered into an Agreement with the City and has entered into an agreement with the Contractor to perform the work.
21. PLANS (Drawings) – Detailed and working drawings including plan, profile, and detail sheets (utility drawings) accepted by the various City Departments.
22. PROVIDE — furnish and install complete in place.
23. QUALIFIED — acquired abilities; skill, knowledge, experience, that fits a person for a position, office, or profession.
24. RECORD DRAWINGS — detailed drawings that show actual construction and contain field dimensions, elevations, details, changes made to the construction drawings by modification, details that were not included on the construction drawings, and horizontal and vertical locations of underground utilities.
 - a. Record Drawings are usually construction drawings, which have been modified to contain the information listed above.
25. REMOVE — remove and properly dispose of in a manner consistent with local ordinances, laws and regulations, unless stated otherwise on the plans.
26. RIGHT-OF-WAY – A general term denoting land, property, or interest therein, usually in a strip acquired for or devoted to a street.
27. SHALL — Where certain requirements in the design or application are described with the “shall” stipulation, it is mandatory that these requirements be met.
28. SHOULD – An advisory condition. Where the word “should” is used, it is considered to be advisable usage, recommended but not mandatory. Deviations may be allowed when reasons are given which show intent of the design standards is met.
29. STORM DRAIN – Any conduit and appurtenance intended for the reception and transfer of storm water.
30. TAP — the physical connection to the trunk line.

31. UTILITY — Tracks, overhead or underground wires, pipelines, conduits, ducts, structures, sewers, or storm drains owned, operated, or maintained in or across a public right of way or private easement.
32. WORK — the entire completed construction or the various separately identifiable parts required to be furnished for the project. Work is the result of performing services, furnishing the labor and furnishing and incorporating materials and equipment into the construction.
33. LARIMER COUNTY URBAN AREA STANDARD STREET STANDARDS — Larimer County Urban Area Street Standards (LCUASS), as amended.

C. Terms

1. Wherever the words “as described,” “as permitted,” or words of like meaning are used, it shall be understood that the direction, requirements or permission of the City is intended. Similarly, the words “acceptable,” “satisfactory” shall refer to acceptance by the City.
2. References to standards, methods of testing materials, testing materials codes, practices of other requirements refer to the latest edition, including amendments in effect and published at the time of approval in issuing a permit.
3. “These Standards” or words of similar connotation shall mean the City of Loveland Storm Drainage Standards including all parts, supplements, and revisions pertaining thereto.
4. These Specifications contain many command sentences that are directed at the Contractor unless otherwise stated.
5. The Contractor shall request written clarification from the City of all apparent conflicts; such request shall also be written. The City will not be responsible for any explanations, interpretations, or supplementary data provided by others.

1.03 COORDINATION WITH THE CITY

- A. The Developer, Design Engineer or Developer's Contractor is responsible to coordinate a pre-construction meeting with the Inspector at least five (5) days, exclusive of holidays and weekends, prior to beginning mobilization.
- B. The Developer, Design Engineer or Developer's Contractor is responsible to submit three (3) sets of approved construction drawings to the City at least five (5) days, exclusive of holidays and weekends, prior to construction start. Blue-line prints and mylars are to be turned into the City.
- C. The Developer, Design Engineer or Developer's Contractor is responsible to obtain required right-of-way (R.O.W.) permits and coordinate right-of-entry prior to a construction start.
- D. The Contractor is responsible for coordinating the work with the Inspector.
- E. All connections to existing storm sewer mains shall be made at a time authorized by the Inspector.

- F. The City shall have the authority to ascertain that all design and construction is equal to or exceeds the minimum requirements set forth in these standards.
- G. The Inspector shall have authority on behalf of the City to make detailed inspections for contract performances, standards, and contract compliance.

1.04 WORK SEQUENCE

- A. Contractor shall coordinate the sequence of activities, taking into account work done by others; possible easement requirements; permit requirements; and City requirements.
- B. Contractor shall coordinate the beginning of work, excavation near ditches, railroads, road cuts, etc. with the Inspector, affected parties and utilities prior to beginning construction.
- C. Contractor shall coordinate backfilling operations, and moisture, density, and other testing with the Inspector.

1.05 NOTIFICATIONS

- A. Contractor shall contact the Inspector, all affected utilities and affected parties at least 48 hours (exclusive of holidays and weekends) prior to working in areas adjacent to underground utilities.
- B. Contractor shall have all utilities field-located by requesting such from Utility Notification Center of Colorado.
- C. Contractor shall give the Inspector a minimum of 48 hours notice (exclusive of holidays and weekends) prior to inspections and testing.
- D. Contractor shall give the Inspector a minimum of 48 hours notice of any and all work to be done during holidays or weekends.

1.06 SAFETY AND PROTECTION

- A. Contractor shall be responsible for initiating, maintaining and supervising all safety precautions and programs in connection with the work. Contractor shall take all necessary precautions for the safety of, and shall provide the necessary protection to prevent damage, injury or loss to:
 - 1. Employees on the work site and other persons who may be affected.
 - 2. Other property at the site or adjacent thereto, including, but not limited to trees, shrubs, lawns, walks, pavements, roadways, structures and utilities not designated for removal, relocation or replacement in the course of construction.
- B. Contractor shall comply with all applicable laws, ordinances, rules, regulations and orders of any public body having jurisdiction for the safety of persons or property or to protect them from damage, injury or loss; and shall erect and maintain all necessary safeguards for such safety and protection.
- C. The Contractor shall provide an approved traffic control plan and shall comply with MUTCD (Manual on Uniform Traffic Control Devices). If the City finds the construction area to have inadequate traffic control he has the authority to stop that portion of work until corrective measures are taken.

1.07 SPECIAL REQUIREMENTS

- A. All items and work not covered by these specifications shall be discussed with the Inspector, and the Contractor shall receive written approval from the Inspector, prior to beginning work.
- B. The Contractor shall be licensed and bonded with the City of Loveland prior to construction of storm drainage facilities for acceptance by the Inspector.
- C. All work must be accepted by the Inspector prior to being placed in service.
- D. All road surface repair shall conform to Chapter 25 of LCUASS
- E. All trench work in existing City streets shall be controlled low-strength material backfill (FLO-FILL).
- F. City furnished material.
 - 1. When the City of Loveland furnishes any materials, the Contractor shall be responsible for such materials once they have been picked up or delivered to the job site.
 - 2. The Contractor shall be responsible for the careful inspection of “City of Loveland furnished material” at the time of delivery.
 - 3. Contractor shall repair, in a manner acceptable to the Inspector, or replace any “City of Loveland furnished material” that has been damaged or stolen, at the Contractor's expense.
 - 4. The City of Loveland is responsible for the quality and operational design aspects of the furnished material.
- G. Contractor shall warrant all work for a period of two (2) years after final completion and initial acceptance of the work.
 - 1. Contractor may perform such maintenance and repairs by subcontract.
 - a. If the Contractor chooses to subcontract the warranty work, they shall submit to the Inspector a copy of the subcontract or the work authorization as evidence of the Contractor's faithful intention to perform any repairs that may become necessary during the two (2) year warranty period.
- H. Field changes from the accepted plans shall not be permitted without prior permission from the City.
- I. The Developer shall be responsible for the cost of the initial test, the first re-test and any additional re-tests that may be considered excessive inspection and inspection during non-office hours, 7:30 a.m. to 4:00 p.m. Monday through Friday exclusive of holidays. The Inspector will notify the Contractor and Developer when such costs are being incurred and will bill the Contractor \$50.00 per hour for every hour of inspection overtime performed.
- J. No work shall take place on weekends or holidays without prior authorization from the Inspector. Contact the Inspector at least 48 hours (exclusive of holidays and weekends) prior to working in areas near underground utilities, pole lines, or on private property. The Inspector will make every effort to assist with notifications received less than the 48 hours required.

- K. Contractor shall provide all materials, equipment and other items required to isolate and accomplish total separation of new construction.
- L. Prior to commencing work, Contractor shall designate, in writing, an authorized representative who shall have complete authority to represent the Contractor and shall be on the construction site at all times during work activities.

1.08 QUALITY CONTROL

- A. Inspection
 - 1. The Inspector shall make periodic checks to verify the quality and progress of the work. The authorized agents and their representatives of the Inspector shall be provided safe access to the work, whenever it is in preparation or progress. The Contractor shall provide for such access and for inspection, including maintenance of temporary and permanent access.
 - 2. Materials and equipment rejected by the Inspector shall be identified and remain onsite until authorized for removal by the Inspector.

PART 2 PRODUCTS

Not Used

PART 3 EXECUTION

Not Used

END OF SECTION