

City of Bee Cave, Texas

Engineering Technical Manuals

GENERAL INFORMATION

The technical information and references within this manual shall be used when applicable within the City of Bee Cave. Should a circumstance arise in which a design or construction standard is not discussed within this manual, applicable technical and scientific documentation should be submitted to City staff in order to confirm the design standard.

This manual will be updated from time to time, as deemed necessary by the City Engineer of the City of Bee Cave, or as directed by the City Council.

All provisions and standards of the City of Bee Cave Unified Development Code shall be applicable and shall govern if there is a conflict with the Engineering Technical Manuals.

1.00 ENVIRONMENTAL CRITERIA MANUAL

The environmental assessments and the design and construction of environmental facilities and systems within the incorporated limits and the ETJ of the City shall comply with the City of Bee Cave Environmental Criteria Manual.

2.00 TRANSPORTATION CRITERIA MANUAL

The design and construction of transportation facilities and systems within the incorporated limits and the ETJ of the City shall comply with the standards outlined in the City of Bee Cave Transportation Criteria Manual.

3.00 WATER AND WASTEWATER FACILITIES

The design and construction of water and wastewater site and subdivision facilities within the incorporated limits and the ETJ of the City of Bee Cave shall comply with the standards set forth by the applicable water and wastewater service provider in the City of Bee Cave (WTCPUA or WCID 17).

4.00 DRAINAGE FACILITIES

The design and construction of drainage facilities and systems within the incorporated limits and the ETJ of the City of Bee Cave shall comply with the City of Austin, Texas Drainage Criteria Manual, latest edition;

Exceptions:

- A. Section 1 - Drainage Systems
 - 1. Subsections 1.2.2.E and 1.2.2.G are not applicable within Bee Cave, and therefore do not apply.

2. Subsection 1.2.4.12c shall be added and read as follow:
 - Landscaping shall comply with the City of Bee Cave Code of Ordinances.
 3. Subsection 1.2.7 shall be removed in its entirety
- B. Section 8 – Determination of Storm Runoff
1. Subsections 8.2.0 Regional Stormwater Management Program does not apply within Bee Cave.
- C. Section 9 – Drainage Charge Administration does not apply within the City of Bee Cave

5.00 STANDARD SPECIFICATIONS AND DETAILS

The City of Bee Cave has adopted the City of Austin's Standard Specifications and Details. These specifications and details shall govern the following construction activities within the incorporated limits and the ETJ of the City of Bee Cave:

- A. Earthwork (Series 100)
- B. Subgrade and Base Construction (Series 200)
- C. Street Surface Courses (Series 300)
- D. Concrete Structures and Miscellaneous Concrete (Series 400)
- E. Pipe and Appurtenances (Series 500)
- F. Environmental Enhancement (Series 600)
- G. Incidental Construction (Series 700)
- H. Urban Transportation (Series 800)

The following exceptions shall apply to the referenced standards.

- A. Series 200 - "Subgrade and Base Construction"
 1. Item 201S "Subgrade Preparation"
 - a) Section 201S.3 "Construction Methods". All testing shall be performed by an independent testing laboratory acceptable to the City and provided and paid for by the owner.
- B. Series 400 - "Concrete Structures and Miscellaneous Concrete"
 1. Item 410S "Concrete Structures"
 - a) Section 410.2 "Materials", Subsection 410.22 "Placing Survey Monuments". Owner's contractor shall provide and install all survey monuments at the owner's expense.

- C. Series 500 - Underground Piped Utilities
 - 1. Item 510 "Pipe"
 - a) Section 510.3 (24) "Potable Water System Connection"
 - 1) Owner's contractor shall be responsible for timely scheduling of connections to the water or wastewater system.
 - 2) The City will not make the pressure tap.
 - 3) During the pressure tap, an inspector from the provider of the water or wastewater utility system shall be present during the entire tap operation. The owner's contractor shall be responsible for the timely coordination and modifications.
 - b) Section 510.3 (26) "Quality Testing for Installed Pipe"
 - 1) Wastewater pipe installed within the jurisdictional boundaries of the City of Bee Cave shall be tested by the owner for exfiltration or infiltration, as described in this section.
 - 2) The provisions required for testing within the Edwards Aquifer Recharge Zone or Edwards Aquifer Transition Zone shall also apply to all improvements within the jurisdictional boundaries of the City of Bee Cave.
 - c) Section 510.3 (27) "Pressure Pipe Hydrostatic Testing". Owner's contractor shall perform all pressure testing and leakage testing.
 - d) Section 510.3 (28) "Service Charges for Testing". This section does not apply.
 - e) Section 510.3 (29) "Disinfection of Potable Water Lines". Owner's contractor shall perform all disinfection work and testing, subject to the approval of the owner/operator of the water system.
- D. Series 600 - Environmental Enhancement
 - 1. Item 602S "Sodding for Erosion Control".
 - a) Section 602S.3 "Materials". Type (s) of grasses shall also comply with the provisions of the City of Bee Cave Code of Ordinances for landscaping.
 - b) Section 604S.4 "Construction Methods". Native Grass seeding shall be required.
 - 2. Item 606S "Fertilizer". Fertilizer shall also comply with the provisions of the City of Bee Cave Code of Ordinances for landscaping.
 - 3. Item 608S "Planting". Planting shall also comply with the provisions of the City of Bee Cave Code of Ordinances for landscaping.
- E. Series 700 - "Incidental Construction"
 - 1. Item 725S "Survey Markers". The owner's contractor shall provide and install all survey markers at the owner's expense.