

RULE NO.: R161-13.22

NOTICE OF PROPOSED RULE

POSTING DATE: July 3, 2013

The Director of the Watershed Protection Department proposes to adopt the following rule after August 4, 2013.

Comments on the proposed rule are requested from the public. Comments should be submitted to Dana McGehee, 505 Barton Springs Road, Suite 1200, Austin Texas, 78704, 974-2634, or via email at *dana.mcgehee@austintexas.gov*. To be considered, comments must be submitted before August 4, 2013, the 32nd day after the date this notice is posted. A summary of the written comments received will be included in the notice of rule adoption that must be posted for the rule to become effective.

An affordability impact statement regarding the proposed rule has been obtained and is available for inspection or copying at the address noted in the preceding paragraph.

EFFECTIVE DATE OF PROPOSED RULE

A rule proposed in this notice may not become effective before the effective date established by a separate notice of rule adoption. A notice of rule adoption may not be posted before August 4, 2013 (the 32nd day after the date of this notice) or not after October 1, 2013 (the 90th day after the date of this notice).

If a proposed rule is not adopted on or before October 1, 2013, it is automatically withdrawn and cannot be adopted without first posting a new notice of a proposed rule.

BRIEF EXPLANATION OF PROPOSED RULE

R161-13.22: Proposes revisions to the Drainage Criteria Manual, Sections 3 and 4 as follows:

Drainage Criteria Manual – Section 3, *Street Flow*

3.1.5 – Valley Gutter – Proposed addition requires that valley gutters be constructed of reinforced concrete.

3.2.0 – Permissible Spread of Water – Proposed modifications outline the containment requirements of the 25-year and 100-year storms.

Equation 3-1 – Proposed modifications correct language regarding depth of flow and flow spread; equation 3-1 was replaced with an equation from the HEC-22 Manual that addresses crown height in addition to street width and water depth.

3.3.2 – Straight Crowns – Proposed addition provides source for modified Manning’s Equation (Equation 3-2). Proposed modification moves paragraph below Table 3-1 above Table 3-1 to improve readability.

Table 3-1 – Proposed modification replaces existing Table 3-1 with simplified clear width table.

Equation 3-6 – Proposed for deletion.

Drainage Criteria Manual – Section 4, Inlets

4.1.0 General – The proposed modifications clarify the purpose, location and installation of storm drain inlets.

Introduction: Introductory paragraphs have been revised to clarify the purpose and acceptable location of inlets.

- A. Clarifies the need to use curb inlets unless approval for the use of another type has been granted.
- B. Reduces the allowable minimum length of a curb inlet to 5 feet.
- C. References a standard detail for curb inlets in excess of 10’ in length.
- D. Allows for a reduced transition length for curb inlets only in restricted circumstances.
- E. Allows for a reduced throat inlet only in restricted circumstances.
- F. Allows for the use of recessed inlets where feasible.
- G. Clarifies the issues with regard to the use of grate inlets.
- H. Allows for the use of trench drains only in restricted circumstances.
- I. Reiterates that inlet design and layout must be in accordance with Section 3.
- J. Requires storm drain system design to account for all headlosses due to water treatment devices.

4.3.1 – Inlets in Sumps – Eliminates Figures 4-8 and 4-9 from the DCM.

4.3.1.A – Curb Opening Inlets (Type S-1) and Area Inlet Without Grate (Type S-4) – Replaces the methodology for calculating capacity with the methodology provided in FHWA Hydrologic Engineering Circular No. 22.

4.3.1.B – Grate Inlets (Type S-2) – Replaces the methodology for calculating capacity with the methodology provided in FHWA Hydrologic Engineering Circular No. 22.

4.3.1.C – Combination Inlets (Type S-3) – Discourages the use of combination inlets. When such inlets are the only feasible solution, the capacity shall be determined using the methodology in FHWA Hydraulic Engineering Circular No. 22.

4.3.2.A – Curb Opening Inlets on Grade (Type G-1) – Replaces the methodology for calculating capacity with the methodology provided in FHWA Hydrologic Engineering Circular No. 22.

4.3.2.B – Grate Inlets on Grade (Type G-2) – Discourages the use of grate inlets. When the use of a grate inlet on grade is approved, the manufacturer shall be consulted regarding grate capacity.

4.3.2.C – Combination Inlets on Grade (Type G-3) – Discourages the use of combination inlets on grade.

4.3.2.D – Clarifies the criteria for calculating the capacity of recessed inlets on grade.

4.4.0 – Inlet System Layout – Revises wording to improve clarity.

4.4.1.A – 4.4.1.H – Preliminary Design Considerations – Revises wording for improved clarity of procedure for the preliminary design of an inlet layout.

4.4.2 – Inlet System Design – Revises wording for improved clarity of procedure for the final design of an inlet layout.

4.4.43 – Inlet Flow Calculation Table – Revises wording for improved clarity of suggested procedure for calculating the intercepted flow at an inlet.

TEXT OF PROPOSED RULE

A copy of the complete text of the proposed rule is available for public inspection and copying at the following locations. Copies may be purchased at the locations at a cost of ten cents per page:

Watershed Protection Department, located at 505 Barton Springs Road, Suite 1200, Austin, TX, 78704; and

Office of the City Clerk, City Hall, located at 301 West 2nd Street, Austin, Texas.

AUTHORITY FOR ADOPTION OF PROPOSED RULE

The authority and procedure for the adoption of a rule to assist in the implementation, administration, or enforcement of a provision of the City Code is established in Chapter 1-2 of the City Code. The authority to regulate dedication of drainage easements is established in Section 25-7-152 of the City Code; the authority to regulate design and construction of drainage facilities and improvements is established in Section 25-7-121 of the City Code.

CERTIFICATION BY CITY ATTORNEY

By signing this Notice of Rule Adoption R161-13.22, the City Attorney certifies that the City Attorney has reviewed the rule and finds that adoption of the rule is a valid exercise of the Director's administrative authority.

REVIEWED AND APPROVED

Victoria J. Li, P.E., Director
Watershed Protection Department

Date: _____

Karen M. Kennard
City Attorney

Date: _____