RULE NO.: R161-18.23

NOTICE OF PROPOSED RULE **POSTING DATE: October 5, 2018**

The Director of the Department of Public Works proposes to adopt the following rule after November 06, 2018.

Comments on the proposed rule are requested from the public. Comments should be submitted to Mr. Samuel West; Public Works, 4411-A Meinardus Drive, Austin, Texas 78744, 512-974-8775, or via email at Samuel.West@austintexas.gov . To be considered, comments must be submitted before November 06, 2018, 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 November 06, 2018 (the 32nd day after the date of this notice) or not after December 14, 2018 (the 70th day after the date of this notice).

If a proposed rule is not adopted on or before December 14, 2018, it is automatically withdrawn and cannot be adopted without first posting a new notice of a proposed rule.

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 following locations at a cost of ten cents per page:

Public Works, located at 4411-A Meinardus Drive, Austin, Texas, 78744. See Mr. Samuel West and:

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

BRIEF EXPLANATION OF PROPOSED RULE

R161-18.23: Proposed revision to the Standard Specification Manual 510.3(25C & 25D)

- Section 510.3 (25C) Backfill Material – We are fixing any grammatical errors and adding all necessary acronyms
- Section 510.3 (25D) Backfill in Street Right of Way – We are fixing any grammatical errors and adding all necessary acronyms.
- Section 510.3 (25D) Backfill in Street Right of Way – We are adding a section to allow backfill lifts to be placed at gradients.

AUTHORITY FOR ADOPTION OF PROPOSED RULE

The authority and procedure for adoption of a rule to assist in the implementation, administration, or enforcement of a provision of the City Code is provided in Chapter 1-2 of the City Code. The authority to regulate construction requirements is established in Section 25-6-267 and Section 25-6-268 of the City Code.

CERTIFICATION BY CITY ATTORNEY

By signing this Notice of Proposed Rule R161-18.23, the City Attorney certifies 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

Richard Mendoza, Director
Public Works

Date: 10-3-18

Veronica Ocanas
City Attorney

Date: 10-3-18.

Standard Specifications Manual

Item No. 510 Pipe

Standard Specification 510 "Pipe"
Section 510.3(25c) "Backfill Materials" and
Section 510.3(25d) "Backfill in Street Right of Way"

(c) Backfill Materials

The ~~E/A~~***Engineer or designated representative*** may approve any of the following well graded materials ***as backfill***:

1. Select trench material
2. Sand
3. Crushed rock cuttings
4. Rock cuttings
5. Foundation Rock
6. Blasted material with fines and rock
7. Cement stabilized material
8. Borrow

Within the 100-year flood plain, sand will not be permitted for backfilling. The ~~E/A~~***Engineer or designated representative*** will approve the topsoil for areas to be seeded or sodded.

(d) Backfill in Street Right of Way

Placement of backfill under existing or future pavement structures and within 2 feet of any structures shall be compacted to the ~~required~~***specified*** density using any method, type and size of equipment, which will ~~give~~***produce*** the ~~required~~***specified*** compaction without damaging the pipe or bedding. Placement of backfill greater than 2 feet beyond structures in Right of Way shall ~~be~~ conform to (g) below.

The ~~depth~~***thickness*** of ~~layers~~***lifts***, prior to compaction, shall depend upon the type of sprinkling and compacting equipment used and the test results thereby obtained. Prior to and in conjunction with the compaction operation, each ~~layer~~***lift*** shall be brought to the moisture content necessary to obtain the ~~required~~***specified*** density and shall be ~~kept level~~***placed in a***

uniform thickness to ~~l~~ensure uniform compaction over the entire ~~layer~~*lift*. Testing for density shall be in accordance with Test Method Tex-114-E and Test Method Tex-115-E.

Backfill lifts shall be placed in a flat (or level) configuration; however, when approved by the Engineer or designated representative, the backfill lifts may be placed at gradients (percent of vertical rise or fall to horizontal run) that do not exceed 30%.

The proposed gradient for each lift or series of lifts shall be established based on the capabilities of the equipment proposed to attain the required compaction.

Each ~~layer~~*lift* of backfill must provide the density as ~~required~~*specified* herein. Swelling soils (soils ~~with plasticity index of 20 or more~~*with a minimum Liquid Limit of 50, more than 50% passing a #200 sieve and a plasticity index greater than 22)* shall be sprinkled as required to provide not less than optimum moisture nor more than 2 percent over optimum moisture content and compacted to the extent necessary to provide not less than 95 percent nor more than 102 percent of the density as determined in accordance with Test Method Tex-114-E. Non-swelling soils ~~(soils with plasticity index less than 20)~~ shall be sprinkled as ~~required~~*specified* and compacted to the extent necessary to provide not less than 95 percent of the density as determined in accordance with Test Method Tex-114-E.

After each ~~layer~~*lift* of backfill is complete, tests may be made by the ~~E/A~~ *Engineer or designated representative*. If the material fails to meet the density indicated, the course shall be reworked as necessary to obtain the indicated compaction and the compaction method shall be altered on subsequent Work to obtain indicated density.

At any time, the ~~E/A~~*Engineer or designated representative* may order proof rolling to test the uniformity of compaction of the backfill ~~layers~~*lifts*. All irregularities, depressions, weak or soft spots that develop shall be corrected immediately by the Contractor.

~~Should~~*If* the backfill, due to any reason, lose*s* the ~~required~~*specified* stability, density or finish before the pavement structure is placed, it shall be recompacted and refinished at the sole expense of the Contractor. Excessive loss of moisture in the subgrade shall be prevented by sprinkling, sealing or covering with a subsequent backfill layer or granular material. Excessive loss of moisture shall be construed to exist when the subgrade soil moisture content is more than 4 percent below the optimum of compaction ratio density. Backfill shall be placed from the top of the bedding material to the existing grade, base course, subgrade or as ~~indicated~~*specified*. The remainder of the street backfill shall *either* be Flexible Base, Concrete or Hot Mix Asphalt Concrete as ~~indicated~~*specified on the drawings* or ~~to replaced~~*replacement "*in kind*"* to the surface *of the materials originally* removed ~~to construct~~*for placement of* the pipe.