

## SECTION 3

### GENERAL CONSTRUCTION REQUIREMENTS

#### 3.1 GENERAL

Prior to beginning construction on any improvements in a development or in the right-of-way of any streets or proposed streets of the City of Cedar Hills, or with any work that will ultimately connect with a City utility, a pre-construction meeting shall be held with the City Public Works Department, the developer, and subcontractors. Prior to the preconstruction meeting the following must be properly submitted to the city: adequate bonding for the project, appropriate water rights, and a final set of stamped engineering plans including stamped approval by the City Engineer. In addition, the City Public Works Department shall be notified so that the proper inspection may be provided, and so that it might be determined that the work has been approved and the proper permits obtained. Certain types of construction shall have continuous inspection (at the discretion of the City Public Works Department) while others may have only periodic inspections.

- A. Continuous inspection shall be required on the following types of work:
  - 1. Laying of street surfacing.
  - 2. Placing of concrete for curb and gutter, sidewalks and other structures.
  - 3. Laying of water pipe, valves, hydrants, drainage pipe, sewer pipe, and testing.
  
- B. Periodic inspections shall be required on the following:
  - 1. Street grading and gravel base.
  - 2. Excavations for curb and gutter and sidewalks.
  - 3. Excavations for structures.
  - 4. Trenches for laying pipe.
  - 5. Forms for curb and gutter, sidewalks and structures.

On construction requiring continuous inspection, no work shall be started except in the presence of a City Inspector. No construction requiring inspection shall be performed on City Holidays, Saturday, Sunday, or non-business hours, unless prior arrangements are made with the Cedar Hills Public Works Department.

It shall be unlawful to do any construction, excavation work, or any work, on any street, curb, gutter, sidewalk, sewer line, water line or other infra-structure addition or on improvements in the City of Cedar Hills without an excavation permit from the City to do so.

### 3.2 REQUESTS FOR INSPECTION

Requests for inspections shall be made to the City Public Works Department by the person responsible for the construction. Requests for inspection on work requiring continuous inspection shall be made three (3) days prior to the commencing of the work. Notice shall also be given one day in advance of the starting of work requiring periodic inspection.

Prior to construction, the following data shall be furnished to the City Inspector (three complete copies): "Cut Sheets" for sewer and curb and gutter work, projected time schedules for completion of the work and shop drawings for materials, etc., to be installed.

No work which may be defective in its construction or deficient in any of the requirements of these specifications will be accepted. Failure of any officers of the City or the Inspector to point out such defects or deficiencies during construction shall not relieve the Contractor of his responsibility to comply with the specifications, and the Contractor shall correct any imperfect work, settlement, etc., wherever discovered, before the final acceptance of the work by the City.

### 3.3 CONSTRUCTION COMPLETION INSPECTION

An inspection shall be made by the City of Cedar Hills Public Works Department after all construction work is completed. Any faulty or defective work shall be corrected by the persons responsible for the work within a period of thirty (30) days of the date of Public Works Department Inspection Report defining the faulty or defective work. The following items will be inspected and or required:

#### Sewer

- Bedded
- Compaction
- Concrete collars
- Flushed
- Manhole height/leaks
- Material meets City regulations
- Pressure Tested
- Set to grade
- Video Inspection

#### Water

- Bacteria tested
- Bedded
- Blow off valve location and height
- Chlorinized
- Compaction
- Concrete collars around valve clusters

- Corp stops all on
- Flushed
- Hydrant locations-height, dry test, wet
- Mark Culinary Water (C.W.)
- Material meets City regulations
- Meter height
- Meter location/check psi at each meter
- Pressure tested
- Set at required depth and location
- Thrust blocks
- Valve height
- Valve locations
- Valve spin test
- Valve test

#### Irrigation

- Bedded
- Compaction

- \_\_\_ Concrete collar's valve clusters
- \_\_\_ Flushed
- \_\_\_ Hydrants (see water)
- \_\_\_ Mark Pressurized Irrigation (P.I.)
- \_\_\_ Material meets City regulations
- \_\_\_ Meter bedding
- \_\_\_ Meter height
- \_\_\_ Meter locations
- \_\_\_ Pressure tested
- \_\_\_ Set at required depth and location
- \_\_\_ Thrust blocks
- \_\_\_ Valves (see water)

Storm Drain

- \_\_\_ Boxes accessible
- \_\_\_ Boxes clean
- \_\_\_ Boxes in good condition
- \_\_\_ Compaction
- \_\_\_ Depth
- \_\_\_ Grade
- \_\_\_ Location
- \_\_\_ Material meets City regulations

Curb and Gutter

- \_\_\_ Base compaction
- \_\_\_ Cylinder breaks
- \_\_\_ Grade/Flow
- \_\_\_ Height
- \_\_\_ Joints
- \_\_\_ Location
- \_\_\_ Slump and air tests
- \_\_\_ Subbase compaction
- \_\_\_ Thickness
- \_\_\_ Width
- \_\_\_ Utility location stamps

Sidewalk

- \_\_\_ Base compaction
- \_\_\_ Cylinder breaks
- \_\_\_ Grade
- \_\_\_ Joints
- \_\_\_ Location
- \_\_\_ Rebar
- \_\_\_ Slope

- \_\_\_ Slump and air tests
- \_\_\_ Subbase compaction
- \_\_\_ Thickness
- \_\_\_ Width-Corners meet A.D.A. standards

Cross Gutters

- \_\_\_ Compaction, sub and base
- \_\_\_ Flow
- \_\_\_ Rebar
- \_\_\_ Thickness

Streets

- \_\_\_ Asphalt compaction/density
- \_\_\_ Base compaction
- \_\_\_ Depth roadbase/asphalt
- \_\_\_ Grade
- \_\_\_ Joints/ smoothness
- \_\_\_ Ponding/flow
- \_\_\_ Remove all soft spots and replace
- \_\_\_ Sub compaction
- \_\_\_ Width

Signs

- \_\_\_ Location
- \_\_\_ Post installed
- \_\_\_ Sign installed

Construction Final

- \_\_\_ All debris removed from lots. Large rocks/debris removed from within planter strip
- \_\_\_ As-built plans – CD copy-(AutoCAD Rev. 14 or newer, .dwg file, with appropriate layering and symbology). and paper copy. Elevations (rim and invert) of utilities & locations of valves and laterals are required. *See section 3.4 for requirements and details.*
- \_\_\_ Culinary water, P.I., UTL sleeves & laterals must be located
- \_\_\_ Everything to grade and location (Valves, MH, SW, C&G)

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|---|---|
| ___ Mark valve cluster in streets   | ___ Street lights                                       |
| ___ No cracks in sidewalk, curb and gutter, cross gutter, or asphalt surfaces                                       | ___ Street sleeves & signs                              |
| ___ No rock pockets in asphalt  | ___ Sumps, CB, etc., clean                              |
| ___ Paint & stamp sewer, storm drain, pressurized irrigation, and utility casings at crossing of curb & gutter      | ___ SW, C&G, road swept off and free of washdown traces |
| ___ Sidewalk/curb & gutter backfilled to finished ground level and 18" beyond outside of curb, gutter, and sidewalk | ___ Subdivision, street, and lot monuments              |
|   | ___ Video Inspection of Sewer Line                      |

### 3.4 AS-BUILT REQUIREMENTS

As-built plans submitted should meet the following criteria:

1. 24" x 36" and 11" x 17" paper copy (3 copies each)
2. Electronic copy of as-builts in AutoCAD 2006 format including the following:
  - A. All line work and symbology on correct layers.
  - B. Rim and invert data for all gravity flow systems.
  - C. Location data for all hydrants, manholes, meters, valves, laterals, street monuments, etc.
3. All as-built plans shall be stamped by professional engineer to certify accuracy.

Note: AutoCAD "seed" files containing pertinent as-built data can be downloaded from [www.cedarhills.org](http://www.cedarhills.org), City Departments, Public Works, under As-Built Requirements.

### 3.5 GUARANTEE OF WORK

The improvements outlined in this document shall be guaranteed through Escrow bonds. See Subdivision Ordinance governing construction bonds.

### 3.6 BUILDING PERMITS AND OCCUPANCY

The untreated gravel base must be placed, graded and compacted, sewer, drains and water improvements completed and tested, and curb, gutter and sidewalk installed before any building permits will be issued. Occupancy permits will be given when all site work is complete.

### 3.7 BARRICADES

Maintain proper and sufficient barricades, signals, or warnings as needed at every construction site to give warning of and protect against accidents. Comply with requirements of the Manual Uniform Traffic Control Devices (MUTCD) for all traffic control on public streets.

### 3.8 EXISTING INFRASTRUCTURE

New developments must be connected permanently to existing infrastructure. If the existing infrastructure, i.e., roads, water, sewer, etc., are inadequate, they must be improved to current standards prior to connecting the new development to them.