

1.11 Record, (as-builts) Drawings;

A. The owner of the tract proposed for subdivision shall submit record, (as-built), drawings to the Planning and Development Department for approval. Record, (as-builts), drawings shall be provided to the Public Works Department prior to acceptance for any other improvement projects that includes public infrastructure. The drafting of the record, (as-built), drawings shall comply with all of the same criteria as the construction drawings and shall be corrected to show the project as constructed. The drawings shall accurately and completely denote all changes made during the course of the work. Each sheet within the plans shall be clearly marked as "Conforming to construction Records" and shall include the date of revision and certifications by the engineer. All manhole depths shall be measured and noted. The Developer's Engineer shall gather field notes and shall conduct field surveys of all items, (fire hydrants, valves, manholes, storm boxes, exposed storm pipe ends, storm water detention basins etc.) to ensure the accuracy of the record, (as-built) drawings. Where changes occur, the Developer's Engineer shall verify and certify in writing that all design criteria is still met. The record, (as-built) drawings shall comply with the following:

1. As-built information shall be clouded and noted with a symbol showing the revision number.

2. The record, (as-built) drawings shall be sealed by an engineer registered in the State of Missouri.

3. In addition, when construction of the improvements is completed, the Developer's Engineer shall perform surveys to determine that the location, dimension, and grade of the drainage improvements is in substantial conformance with the approved plans. Location of improvements shall be checked by field survey to ensure that the improvements are completely located within the easements or rights-of-way which have been provided. The location of improvements which vary more than six inches (6") from the location shown on the approved plans must be approved in writing by the City.

4. Elevations and grades shall be verified at the following locations:

- Center of access manhole or grate for junction structures and inlets.
- Inlet entry for side opening inlets (except curb opening inlets).
- Pipe and culvert inverts. For box culverts greater than five feet (5') wide, invert elevation shall be checked at each side of the inlet and outlet.
- Detention basin and sediment basin outlet structures.
- Maximum intervals of one hundred feet (100') and at grade changes in drainage channels (excluding road side borrow ditches).
- Detention and sediment basins.

5. Elevations differing by more than one-tenth of a foot (0.1') from plan grades or five-hundredths of a foot (0.05') for detention basin outlet structures must be approved in writing by the City prior to final approval.

6. Dimensions must be verified for the following:

- Pipe diameter for circular pipe.
- Height and width for elliptical or arch pipe, or box culverts.
- Drainage channel cross-sections at maximum intervals of two hundred feet (200').
- Erosion protection at pipe outlets.
- Overflow spillways and outlet structures for detention and sediment basins.
- Detention and sediment basin volume.

B. Submittal of Record Drawings.

1. After approval and any required revision, one (1) paper copy and one (1) Abode pdf digital copy and one AutoCAD dwg. file shall be submitted to the City. The digital copies may be submitted on a CD or e-mailed to jmccart@ozarkmissouri.org. The paper copies shall be separately bound on 24" x 36" sheets. Each sheet within the plans shall be clearly marked as "Record Drawings" and shall include the date of revision and certifications by the Engineer. The digital copies and the paper copy shall be to standards acceptable to the Director of the Public Works Department.

2. The AutoCAD dwg. file shall comply with the following; Missouri Coordinate System of 1983, Central Zone, (in U.S. feet). The AutoCAD dwg. file shall include all external referenced files and appropriate layers and shall be on state plane. In addition a digital copy shall be provided as an Abode pdf format with a copy of each individual drawing sheet.