

PART 4 - ALLEYS

4.01 APPROVALS, PERMITS, AS-BUILTS AND MAINTENANCE BONDS

- A. Plans and specifications for public alley improvements must be certified by a professional engineer registered in the State of Iowa and utilize the NGVD of 1929.
- B. Plans and specifications for public alley improvements must be reviewed and approved by the City Engineer prior to construction.
- C. Other local, state and federal permits may be required, depending on the circumstances. It shall be the responsibility of the Engineer of Record to acquire all applicable permits. A copy of all permits shall be provided to the City Engineer before construction.
- D. The Engineer of Record is responsible to submit "Record of Construction" drawings to the City Engineer on reproducible vellum or Mylar and a digital base map in an AutoCAD file or other approved electronic format.
- E. A 4-year maintenance bond covering defective materials and workmanship is required for all alley improvements.

4.02 ALLEY CLASSIFICATION

- A. A **Residential Alley** is a route located between local streets used primarily for access to the rear of residential property.
- B. A **Commercial Alley** is a route located in commercial areas used primarily for access to the rear of commercial property.

4.03 RIGHT-OF-WAY WIDTH

The right-of-way width shall be 20 feet for all alleys.

4.04 PAVEMENT WIDTH

- A. Residential alleys shall have a pavement width of 18 feet.
- B. Commercial alleys shall have a pavement width of 20 feet.

4.05 ALLEY GRADES

The maximum grade for alleys shall be 12% for residential and 10% for commercial alleys. The minimum grade shall be 0.5% for all types of alleys.

4.06 ALLEY PAVEMENT CROSS SECTION

The pavement shall have a 4% inverted crown cross section.

4.07 PAVEMENT MATERIAL AND THICKNESS

- A. The pavement slab may be constructed of the following materials:
 - 1. Non-reinforced Portland cement concrete conforming to the IDOT specifications Class C or M mix as applicable.
 - 2. Full-depth hot mix asphalt conforming to the IDOT specifications for Type "B" base and Type "A" surface course.
- B. Minimum alley pavement thickness:

	<u>Residential</u>	<u>Commercial</u>
Portland Cement Concrete.....	6"	7½"
Hot Mix Asphalt.....	7½"	9½"

4.08 SUBGRADE REQUIREMENTS

- A. The subgrade shall be scarified to a depth of 6 inches below the pavement, and compacted to 90% of Modified Proctor Density.
- B. All fill sections shall be compacted to 90% of Modified Proctor Density.