

GUIDELINES
FOR
TRENCHING, BACKFILLING, AND PAVEMENT REPAIR FOR UTILITY INSTALLATION UNDER STREETS AND
ALLEYS
IN THE CITY OF FAIRFIELD
10/30/06

1. Concrete or asphalt to be removed for the excavation shall be sawed full depth.
2. When excavating under, or within 2 feet of, paved streets or alleys, the Contractor must use 1" roadstone for backfill.
3. The Contractor shall backfill the trench by compacting the stone in 1-foot deep lifts. The roadstone shall extend from the bottom of the trench to the bottom of pavement in paved streets or alleys. The roadstone shall extend from the bottom of the trench to the surface in gravel alleys. The roadstone shall extend to within 2" of the surface in sealcoated streets or alleys. The roadstone shall be compacted with mechanical compaction equipment such as a pogo stick, walk behind plate tamper, backhoe mounted hydraulic plate tamper, or self-propelled trench roller.
4. If pipe was replaced, the stone backfill must be compacted around the pipe/pipes to provide uniform support and so that no voids are left at the trench bottom.
5. Concrete for pavement replacement shall be an Iowa DOT Class C mix with 6.5% air entrainment. The concrete shall be the same depth as the adjacent pavement, but shall not be less than 6" in thickness. Unless directed otherwise by the Street Superintendent, concrete may be used for the surface whether the surrounding pavement is asphalt, or concrete. Exceptions may be made if the street has been recently resurfaced, or if a concrete patch would be unsightly for some other reason. In these cases, a composite patch may be required. The top 2" in sealcoated streets or alleys shall be cold mix.
6. The Contractor shall drill 5/8" holes, 9 inches deep, on 3-foot centers around the perimeter of the patch. The holes shall be at mid-depth of the existing pavement. 5/8" x 24" reinforcing steel bars shall be driven into the drilled holes.
7. The subgrade shall be moistened before the concrete is placed. The concrete slump shall not exceed 4". After screeding and smoothing, the concrete shall be given a light broom finish to match the finish of the adjacent pavement. The Street Superintendent may require the patch to be sawed to match joints or cracks in the adjacent pavement. As soon as the patch is completed, the concrete shall be coated with a curing compound such as Sonneborn Cure & Seal.

**THE CONTRACTOR IS RESPONSIBLE FOR ANY SETTLEMENT FOR
A PERIOD OF 1 YEAR AFTER THE JOB IS COMPLETED.**

(06-002)