

SECTION 10

RESTORATION OF SURFACE IMPROVEMENTS

10.1 GENERAL

The Contractor shall be responsible for the protection and the restoration or replacement of any improvements existing on public or private property at the start of work or placed there during the progress of the work. The Contractor, subdivider or utility making the cut or trench shall be liable for any damage which may result to the pavement as a result of subsidence for a period of one year from the time that the backfilling is completed.

Existing improvements shall include but are not limited to permanent surfacing, sidewalks, curbs and ditches, driveways, culverts, fences and walls. All improvements shall be reconstructed to equal or better conditions, in all respects, than the existing improvements removed.

10.2 GRAVEL SURFACE REPAIR

Where trenches are excavated through existing graveled surfaced areas such as roads, shoulders, driveways, parking areas, etc., the gravel surface shall be restored and maintained as follows:

- A. The gravel shall be placed deep enough to provide a minimum of six (6) inches of material or greater to match existing thickness unless directed otherwise by the City Engineer or Public Works Department.
- B. The gravel shall be placed in the trench at the time it is backfilled. The surface shall be maintained by blading, sprinkling, rolling, adding gravel, etc., to maintain a safe uniform surface satisfactory to the City Engineer. Excess material shall be removed from the premises immediately.
- C. Material for restoring a gravel surface shall be obtained from sound, tough, durable gravel or rock meeting the following requirements for grading:

	<u>Ideal</u>	<u>Tolerance</u>
Passing 1-inch sieve	100%	
Passing 3/4-inch sieve	85%	±6
Passing No. 4 sieve	55%	±6
Passing No. 10 sieve	30%	±4
Passing No. 200 sieve	9%	±2

D. Subgrade shall be compacted to a density of 95% (AASHTO T-99) to a depth of eight (8) inches. The gravel surface shall be compacted to a minimum of 95% maximum density.

10.3 ASPHALT SURFACE REPAIR

Where asphalt services are removed, repaired, or disturbed, through bituminous surfaced roads, driveways or parking areas, the surface shall be restored and maintained as follows:

A. Backfill trenches in compliance with Section 7.

B. Place road base in accordance with Section 6 to such depth as to provide a minimum of six (6) inches below the pavement and, if the pavement is not to be restored immediately, shall be brought flush with the paved surface. Reshape and recompact periodically until asphalt is restored to maintain a smooth and accessible road. Add water or dust palliative as required to prevent excessively dusty conditions.

C. Before any permanent resurfacing is placed, the Contractor shall perform the following:

1. Cut the existing paving to clean, straight lines as nearly parallel to the centerline of the trench as practicable. Said straight lines shall be 30 feet minimum length and no deviations from such lines shall be made except as specifically permitted by the City Engineer.

2. All concrete collars within disturbed area shall be removed prior to paving. The collar shall be replaced after paving is complete.

D. Existing bituminous paving shall be cut back as directed by the City beyond the limits of any excavation or cave-in along the trench so that the edges of the new paving will rest on undisturbed soil.

E. Within ten (10) calendar days, weather permitting, the bituminous surface shall be restored in compliance with Section 6 to a minimum thickness of three (3) inches or to match existing pavement thickness if greater, as directed by the City.

F. Pavement restoration shall include placement of a tack coat on the pavement edges and sub-base.

G. Crack Seal any cold-joint.

H. Slurry Seal 5-feet beyond all edges

10.4 CONCRETE SURFACES

All concrete curbs, gutter, sidewalks and driveways shall be removed and replaced to the next joint or scoring lining beyond the actually damaged or broken sections; or in the event that joints or scoring lines do not exist or are three or more feet from the removed or damaged section, the damaged portions shall be removed and reconstructed to neat, plane faces. All new concrete shall match, as nearly as possible, the appearance of adjacent concrete improvements. Where necessary, lampblack or other pigments shall be added to the new concrete to obtain the desired results.

All concrete work shall conform to Section 5 requirements.

10.5 IRRIGATION DITCHES

It shall be the responsibility of the Contractor to maintain all irrigation ditches in the construction area such that normal irrigation flows are not impeded. All costs related to maintaining the ditch(s) shall be borne by the Contractor at no expense to the City. All ditches, structures, etc., shall be repaired and/or replaced to a condition equal to or better than that prior to construction.

All irrigation ditches within improved subdivisions are to be placed in pipe culverts. The size and location of said culverts shall be approved in writing by the irrigation company which owns the ditch.