

#### 13.14 Locate and Protect Existing Utilities

This item of work shall cover the location and protection of ALL existing underground utilities as required under Section 4215 of the Government Code as amended and Section 13.06, "Obstructions," of these Improvement Standards.

Contractor shall locate existing utilities and pothole designated areas for location and protection of existing underground facilities within the project limits prior to start of work and as necessary to coordinate and schedule his work.

#### 13.15 Roadway Excavation and Embankment

Roadway excavation and embankment shall conform to Section 19 "Earthwork" of the State Standard Specifications.

All roadway excavated material not suitable for backfill shall become the property of the Contractor and removed from the job site within twenty-four (24) hours. Roadway excavated material suitable for backfill may be stored on the job site for a maximum of five (5) working days. The suitable backfill material shall be stored in a location outside the public right of way, shall not occupy any more space than the encroachment permit allows and shall be completely prevented from blowing, washing, or being thrown about at all times.

Trench Excavation and Backfill shall conform to Section 15.03 "Trenches & Backfill," of the City Improvement Standards.

#### 13.16 Encroachment Permits

Except for emergencies, encroachment permits must be taken out in advance of excavation work in accordance with Chapter 13.16 of the City Municipal Code. An emergency is considered to exist only when life or property is endangered or when an essential utility service is interrupted during weekends, holidays, or outside the hours of 8:30 a.m. and 4:30 p.m. of normal working days.

A copy of the approved encroachment permit shall be onsite at all times and available for city staff.

#### 13.17 Moratorium

Permission to excavate in newly surfaced streets will not be granted for five years after completion of street surfacing. For those streets with chip seal or slurry seal coatings, the moratorium shall be for 3 years. Utilities shall determine alternate methods of making necessary repairs to avoid excavating in newly resurfaced streets. Exceptions to the above are as follows: emergency which endangers life or property, interruption of essential utility service, work that is mandated by City, State or Federal legislation.

The city engineer may grant exemptions to the moratorium for emergency repairs and/or for the installation of critical infrastructure and/or facilities where other alternatives to installation are not practical or feasible, or for the installation of needed critical infrastructure or facilities (including but not limited to communications infrastructure) where no other alternatives to cutting a street subject to a moratorium exist. When granting exceptions, the city engineer may

impose reasonable conditions, including requirements that installation occur utilizing methods such as directional drilling which have a lesser impact, to ensure the rapid and complete pavement restoration.

A list of streets currently under a moratorium and specific information including the date of repair and type of repair will be listed on the City of Sutter Creek website under the Public Works Department, which can be accessed at the following location:

<https://www.cityofsuttercreek.org/public-works>

### 13.18 Pavement Restoration

Pavement restoration shall be in accordance with the improvement standard plans ST-16 & ST-17 and the State Standard Specifications.

## **15.00 CONSTRUCTION STANDARDS - STORM DRAIN**

### 15.01 Storm Drain Pipe

Storm drain pipe shall conform to the provisions in Section 64, "Plastic Pipe" of the State Standard Specifications. Storm drain pipe shall be SDR 35. All piping shall be backfilled in accordance with Section 15.04 of these Improvement Standards.

Backfill material shall conform to Section 18.00, Standard Details. **Pavement restoration shall conform to improvement standard plans ST-16 & ST-17.**

### 15.02 Installation

Pipe shall be laid in strict conformity with the prescribed alignment and grade specified in the plans and these Improvement Standards, or as directed by the City Engineer. Before any length of pipe is laid, it shall be carefully inspected for defects. No pipe or other material that shows defect shall be placed. Pipe laying shall proceed upgrade with the bell ends of the pipe placed upstream. Each section of pipe shall be laid in such a manner as to form a water tight concentric joint with the adjoining pipe. The interior of the pipe shall be kept clear of all dirt and debris during construction.

All pipe laying and joining, including the maximum deflection of joints in curved alignment shall be in accordance with the pipe manufacturer's specifications and as directed by the City Engineer.

Small diameter storm drain connections to 36" diameter storm drain shall be in accordance with 36" diameter pipe manufacturer's recommendations and shall be water tight. No protrusion into large diameter pipe will be allowed.

Deflection for PVC pipe after installation shall not exceed manufacturer's recommended maximum deflection at any location. Should the installed pipe exceed manufacturer's recommended maximum deflection, each and every length of pipe so affected shall be removed and replaced.

### 15.03 Trenches and Backfill

This work shall consist of performing all operations necessary to excavate earth and rock or other material, of whatever nature, including water, regardless of character and subsurface conditions, necessary to excavate trenches for pipes and appurtenances; to place backfill for structure, pipes and appurtenances and other facilities; to backfill trenches and depressions resulting from the removal of obstructions; to remove and replace unsuitable material; to construct protection dikes; and to remove unstable material and slide material which may enter trenches. All such work shall be in conformance with the approved plans and these Improvement Standards or as directed by the City Engineer. Typical trench details shall be shown on the plans.

## SECTION 02701 - ROADWAY REPAIR

### PART 1: GENERAL

- 1-1 DESCRIPTION: The work of this section consists of the backfilling, compaction, grading and repaving of roadways damaged or destroyed **or removed** during the construction of project elements and appurtenances.
- 1-2 RELATED WORK SPECIFIED ELSEWHERE: Section 02221 - Excavation, Trenching and Backfilling; Section 02233 - Watering; Encroachment Permits.
- 1-3 QUALITY ASSURANCE: California Business and Transportation Agency, Department of Transportation (Cal-Trans) Standard Specifications. Reference to Cal-Trans is for the purposes of specifying material requirements and methods only.

### PART 2: MATERIALS

- 2-1 BACKFILL UNDER ROADWAYS: Shall be selected material approved by the Engineer and shall be free of humus, organic material and deleterious material.
- 2-2 AGGREGATE BASE COURSE: Shall comply with Standard Specifications Section 26-1.02B, Class 2 Aggregate Base and shall be 3/4 inch maximum.
- 2-3 PRIME COAT: Shall conform to Standard Specifications Section 93, Liquid Asphalts and shall be grade MC-70.
- 2-4 ASPHALTIC PAVEMENT: Shall conform to Standard Specifications Section 39, Asphaltic Concrete and shall be Type B, gradation .75 inch maximum medium. Asphalt shall be grade AR 4000. An equivalent cold mix shall be used for temporary paving.

### PART 3: EXECUTION

- 3-1 BACKFILL: Shall be placed in accordance with Section 02221. The uppermost two feet of backfill shall be compacted to ninety-five percent (95%) of optimum density at optimum moisture content as measured in the field using AASHTO T-191, or as specified in the applicable Encroachment Permit.
- 3-2 AGGREGATE BASE: Shall be in accordance with Standard Specifications Section 26. Minimum depth shall be six inches for roadways.
- 3-3 PRIME COAT: Shall be in accordance with Standard Specifications Section 93 and shall be applied at the rate of .50 gallons per square yard, as directed for roadways.
- 3-4 ASPHALTIC PAVEMENT: **Pavement restoration limits shall be in accordance with improvement standard plans ST-16 & ST-17.** Asphalt concrete shall be in accordance with Standard Specifications Section 39. Finished pavement shall be spread and compacted in accordance with Standard Specifications Section 39-6 and 39-7.

At end of each day's work, temporary paving shall be placed in all areas where permanent paving will be placed.