

SECTION 41

UTILITY TRENCH RESURFACING

41.1 DESCRIPTION

- A. General:** This work consists of furnishing and installing surface patching of utility trenches. This includes all equipment, tools, materials, labor, and other incidentals to provide utility trench patching to prepare the surface for regular use, and restore non-paved areas to their original condition.

Patching of trenches will be matching the in-place surface material with asphalt, concrete, gravel, grass, etc. or as specified by the Engineer.

B. Related Work:

Section 11	Utility Excavation and Backfill
Section 20	Granular Bases and Surfacing
Section 31	Asphalt Concrete - General
Section 32	Asphalt Concrete - Class E
Section 39	Cold Mix Asphalt Concrete
Section 40	Portland Cement Concrete Pavement
Section 64	Under-Drains
Section 70	Seeding
Section 73	Sodding
Section 90	Roadway Signs and Delineators
Section 117	Aggregates for Granular Bases and Surfacing
Section 202	Geosynthetics for Roadways

- C. Submittals:** Asphalt mix design, concrete mix design, seed mixture.

41.2 MATERIALS (Not specified)

41.3 CONSTRUCTION REQUIREMENTS

- A. Sub Grade Preparation:** Contractor shall not resurface the trench until all density tests have been met and the Engineer gives approval.

The subgrade shall be brought to proper grade elevation, for the specified depth of surfacing to be placed. The subgrade surface shall be smooth and level, with no loose material.

B. Resurfacing:

- 1. Saw Cut of Pavement Edges:** The first pavement saw cuts shall be, at a minimum, the same width as the minimum trench width centered over the utility.

The second saw cut shall be 1 foot outside the disturbed area on each side of the trench (see Section 41 Standard Detail).

2. **Asphalt Street:** The asphalt patch shall be placed to a minimum depth of five (5) inches. If the existing pavement is greater than five (5) inches thick, the patch shall be placed to a depth matching the existing pavement. The asphalt base shall be Class E, Type 1, and/or class E, type II, as approved by the Engineer. The asphalt patching shall be in accordance with Sections 31 and 32.
3. **Cold Mix Asphalt:** A temporary asphalt patch shall be placed when hot asphalt is not available and/or the Engineer gives approval. The Contractor shall be responsible for maintenance of the temporary patch at no extra cost to the City. The depth of the temporary patch shall be a minimum of five (5) inches. The cold mix shall be in accordance with Section 39.
4. **Concrete Street with Asphalt Overlay:** After saw cutting per specifications, the concrete base patch shall be poured to the depth of the existing concrete. The concrete shall be allowed to attain a compressive strength of 4000 psi, or the Engineer has given approval, before the asphalt overlay can be accomplished. The asphalt overlay shall be Class E, Type I and/or Class E, type II as approved by the Engineer. The concrete and asphalt patch shall be in accordance with Sections 31, 32, and 40.
5. **Concrete Street:** After saw cutting as per specifications, the concrete pavement patch shall be installed in accordance with Section 40.3T. The pavement patch shall not be opened to traffic until the concrete has attained a compressive strength of 4000 psi. The concrete patch shall be in accordance with Section 40.
6. **Gravel Resurfacing:** The gravel shall be placed to a thickness equal to the in-place gravel thickness or five (5) inches, whichever is greater, or as approved by the Engineer. The gravel surface material and placement shall be in accordance with Section 20 and Section 117.
7. **Seeding:** The area to be seeded shall be as specified on the plans and specifications and/or by the Engineer. The seeding shall be in accordance with Section 70.
8. **Sodding:** The area to be sodded shall be as specified on the plans and specifications and/or by the Engineer. The sodding shall be in accordance with Section 73.
9. **Geotextile or Geogrid:** If Engineering fabric is encountered during excavation, the Contractor shall immediately notify the Engineer. Damaged fabric shall be repaired as shown on the appropriate standard detail or as directed by the Engineer. Fabric removal and replacement shall be per Section 11. Final saw cuts shall be as specified in this section. Also see Section 202 Geosynthetics for Roadways.

10. Under-Drains: If subsurface or edge drains are encountered during excavation, the Contractor shall immediately notify the Engineer. Subsurface or edge drains shall be repaired as shown on the appropriate standard detail or as directed by the Engineer. Repair of under-drains shall be per Section 11. Final saw cuts shall be as specified in this section. Also see Section 64 Under-Drains.

41.4 METHOD OF MEASUREMENT

All trench resurfacing shall be measured for in accordance with the respective section.

41.5 BASIS OF PAYMENT

All trench resurfacing shall be paid for in accordance with the respective section.

END OF SECTION