

CITY STANDARD DETAILS AND SPECIFICATIONS

Utility Trench Repair

- 1. Monitoring Program** - All excavations into existing City street paving shall be repaired in accordance with City Standard Drawings U-2 and U-2A. A City right-of-way encroachment permit will be required prior to excavation in any City right-of-way. The contractor shall sign an acknowledgement that he/she has a copy of the City trench repair standards (temporary and finish) and shall make an estimate of the square feet of trench repair based upon the standard for finished repairs. All street patches will be subject to a nine-month warranty period, or as determined by the City Engineer. A refundable cash deposit as determined by the City Engineer per square foot of trench repair will be required with the encroachment permit. All trench repairs shall be logged and placed in a data base stating the location, size of patch, contractor, date permit was issued and date accepted as complete.
- 2. Inspections** - A minimum of three inspections are required for each repair. One after preparation and prior to paving, one final inspection and one follow-up inspection 9 months later. Inspection time will be billed to the deposit on an hourly basis. Soil compaction tests conducted by a Soils Engineer retained by the contractor, shall be provided upon inspection of the trench preparation and subgrade.

Should the trench repair fall out of compliance with the City Standards during the period of the warranty, the contractor shall be responsible for any necessary repairs and or restoration. After the warranty period the deposit, less the cost of inspections, may be refunded to the contractor, providing the trench repair complies with the following findings:

- The surface of the patch is level with or no higher than 0.25 inches above the grade of the original pavement surface.
- No apparent crack at sawcut line (1/16-inch maximum).
- No apparent pavement raveling.
- No apparent pavement cracking.

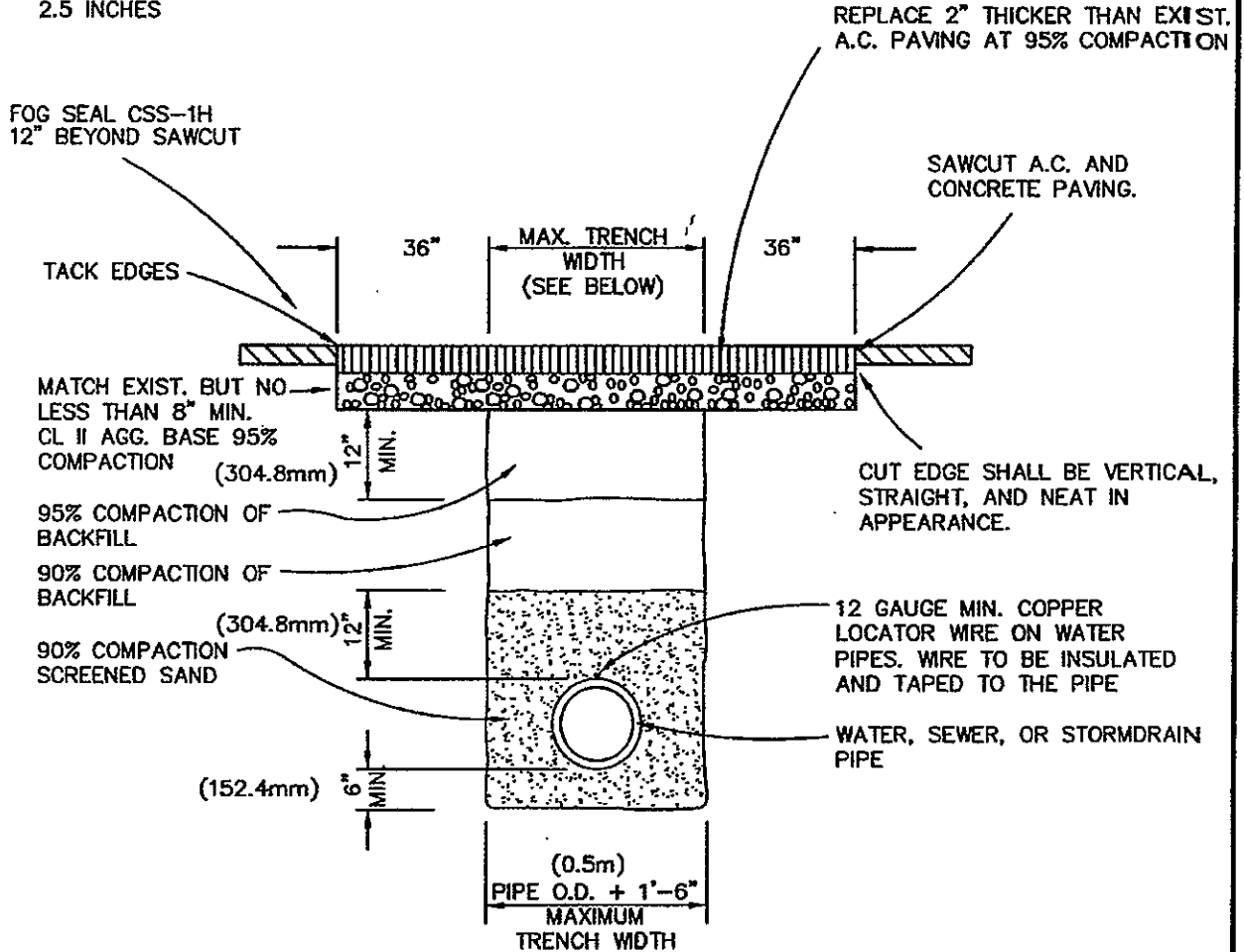
If the trench repair is found to be inadequate, based on the criteria stated above, the contractor shall forfeit the deposit and the City shall make the necessary repairs.

- 3. Temporary Patches** - Temporary patches will be monitored on a daily basis by the responsible contractor and shall be immediately restored to standard as they compact. In no case shall a temporary patch be left without permanent repair for more than 30 calendar days. The allowed period of the temporary patch may be reduced as determined by the City Engineer, such as in the case of arterial streets or those serving high traffic volumes.
- 4. Pavement Overlay Required** - Complete street paving overlays will be required where certain projects involve multiple excavations into one street. If one particular project causes three excavations with a 300 foot stretch of a given street, that street must be subject to a complete asphalt overlay of a minimum depth of 1.75 inches (0.15 feet). The overlay shall extend for a minimum length of 100 feet or 20 feet beyond the last cut at each end of the excavated area. The 1.75 inches depth of asphalt may be subtracted from the depth of the asphalt in the trench repair as long as the depth of repair matches or exceeds the depth of the existing asphalt.

REVISIONS

DESCRIPTIONS	BY	DATE	APPROVED

MINIMUM PAVEMENT DEPTHS ARE AS FOLLOWS:
 LOCAL STREETS 4" (2 LIFTS)
 COLLECTOR STREETS 5" (2 LIFTS)
 ARTERIAL STREETS 6" (3 LIFTS)
 LIFTS SHALL BE PLACED IN DEPTHS NOT TO EXCEED
 2.5 INCHES

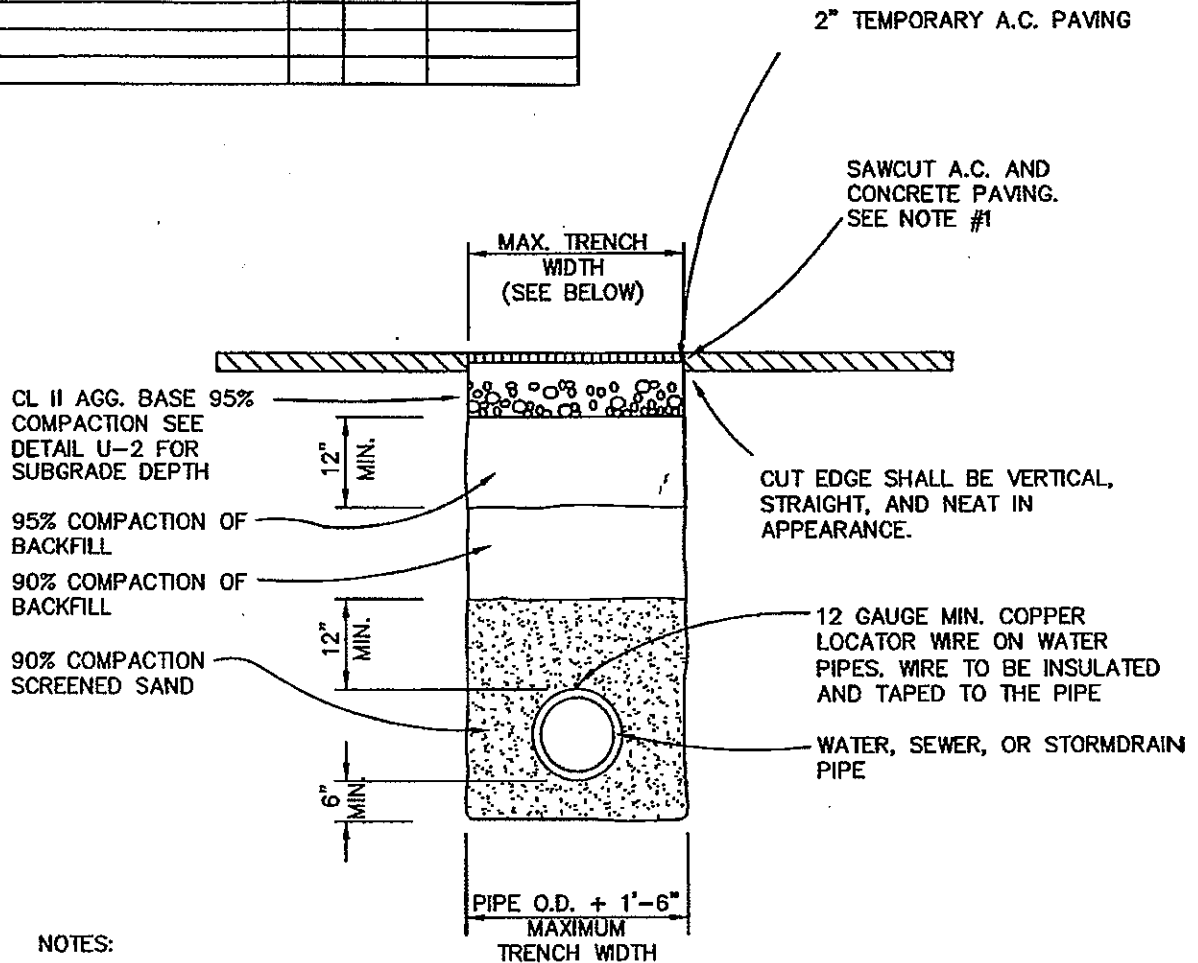


NOTES:

1. No. 12 AWG LOCATOR WIRE REQUIRED ON ALL WATER MAINS AND SERVICES, TAPED TO TOP OF PIPE (AND SEWER FORCE MAINS).
2. NO ROCKS OR OLD PAVEMENT MAY BE DEPOSITED WITH BACKFILL.
3. SEE STANDARD U-2A FOR TEMPORARY PATCHES.
4. FINISH SURFACE SHALL MATCH EXISTING GRADE WITH A TOLERANCE OF 0.25 INCHES ABOVE ADJACENT GRADE.
5. A SEPARATE CITY RIGHT-OF-WAY ENCROACHMENT PERMIT IS REQUIRED.

DRAWN BY: JAC	CITY OF PASO ROBLES ENGINEERING DIVISION	DRAWING NO.
DESIGNED BY:		U-2
DATE: 12/01/03	PIPE IN TRENCH DETAIL	U-2
FILE NAME: PR-U-2.DWG		

REVISIONS			
DESCRIPTIONS	BY	DATE	APPROVED



NOTES:

1. WHEN A TEMPORARY PATCH IS USED, THE INITIAL WIDTH OF THE SAWCUT SHALL BE NO GREATER THAN THAT NECESSARY TO CONDUCT THE EXCAVATION. THE DEPTH OF THE TEMPORARY PATCH SHALL BE 2 INCHES.
2. THE FINISHED SURFACE OF THE TEMPORARY PATCH SHALL, IN ALL CASES, BE LEVEL WITH, OR NO GREATER THAN 1/2 INCH ABOVE, THE ADJACENT GRADE OF THE EXISTING STREET.
3. A TEMPORARY PATCH WILL BE MONITORED ON A DAILY BASIS AND SHALL BE IMMEDIATELY RESTORED TO STANDARD AS IT COMPACTS.
4. IN NO CASE SHALL A TEMPORARY PATCH BE LEFT WITHOUT PERMANENT REPAIR FOR MORE THAN 30 CALENDAR DAYS. THE PERIOD OF THE TEMPORARY PATCH MAY BE REDUCED AS DETERMINED BY THE CITY ENGINEER, SUCH AS IN THE CASE OF ARTERIAL STREETS OR THOSE SERVING HIGH TRAFFIC VOLUMES.
5. No. 12 AWG LOCATOR WIRE IS REQUIRED ON ALL WATER MAINS AND SERVICES, TAPED TO TOP OF PIPE (AND SEWER FORCE MAINS).
6. NO ROCKS OR OLD PAVEMENT MAY BE DEPOSITED WITH BACKFILL.
7. SEE STANDARD U-2 FOR PERMANENT TRENCH REPAIR DETAILS.
8. A SEPARATE CITY RIGHT-OF-WAY ENCROACHMENT PERMIT IS REQUIRED.

DRAWN BY: JAC	CITY OF PASO ROBLES ENGINEERING DIVISION	DRAWING NO.
DESIGNED BY:		
DATE: 12/01/03	TEMPORARY TRENCH REPAIR	U-2A
FILE NAME: PR-U-2A.DWG		

**ACKNOWLEDGEMENT FOR RECEIPT OF
CITY TRENCH REPAIR STANDARDS**

I, _____, the undersigned contractor, acknowledge
that I have received and reviewed a copy of the City Standard Details and Specifications
for Utility Trench Repair in the City of El Paso de Robles.

Signature

Printed Name

Date

Estimate of Trench Repair is _____ square foot.