



City of Bristol  
DEPARTMENT OF PUBLIC WORKS  
BRISTOL, CONNECTICUT 06010  
860-584-6125 – Front Desk

**PERMANENT PATCHING OF CITY STREETS**

The permanent patching of all utility trenches and other excavations in streets maintained by the City of Bristol will be by the public works department or under contract to the city. All utility contractors shall obtain an excavating permit for any trenches in the public street.

**Excavation, backfilling and patching, general requirements.**

Pavement and/or sidewalks shall be cut or sawn to straight neat lines, excavation without cutting or sawing will not be allowed. Cut line shall be parallel and six (6) inches minimum, outside either edge of the proposed trench. Tunneling under pavement or sidewalks will not be allowed. Bituminous material, cement concrete, ledge, rock and boulders over six (6) inches in any dimension shall be removed from the job, together with any clay, silt, or organic material. The public works inspector will check the material excavated and will allow re-use as backfill, sandy and/or gravelly material. Material not approved shall be disposed of off the job. Backfill shall be approved sandy gravelly material with no stones over six (6) inches in any dimension. Backfill shall be compacted in twelve-inch layers using mechanical compaction equipment.

The trench shall be filled to within eleven (11) inches of finished grade, eight (8) inches of approved processed gravel shall be spread and compacted, then three (3) inches of bituminous concrete shall be spread and compacted with the finished material flush with the adjacent existing surface. Bituminous concrete material shall be "hot mix," except during winter season when plants are closed "cold patch" will be used. During the period between temporary patch and permanent patch, the utility contractor shall be responsible for maintaining the patch and shall promptly correct all defects upon order of the director of public works. The contractor is an agent of the utility whose pipe, conduit, etc., is laid in the trench and has ultimate responsibility for the trench. In sanitary sewer laterals this is the serviced property owner. This procedure also includes new sanitary sewer construction and the ultimate responsibility shall be the city public works department.

**Fees, deposits, records and measurements for patches.**

Annually the city may advertise and receive bids for permanent patching of utility trenches. Bids will be taken on repair of bituminous pavement, curbing and sidewalk. The lowest acceptable unit prices will be utilized with a ten (10) per cent escalator for charging utility contractors, that year, for trench permanent patching. Trenches that are temporarily patched this year will be permanently patched next year, the intent is that temporary patches shall go through one complete winter season.

At the time of issuance of an excavation permit, the utility contractor shall deposit a fee equal to the estimated cost of the permanent patch. Upon completion, the actual patch

will be measured and the contractor shall be billed for any additional amount or added cost due to increased bid cost, if the amount is less than the prepayment he will receive credit. Calculation of estimated patch will be based on length and width, (width shall be diameter of pipe plus twelve (12) inches, minimum twenty-four (24) inches, plus twelve (12) inches for every foot to depth of trench.) Permits will not be issued to contractors owing the city any excess fee. Responsible persons will be liened if excess fee not paid within ninety (90) days of the due date.

The public works department shall keep a written record of all trenches, with date of excavation, temporary patch and permanent patch, deposit fee and estimate quantity final fee and actual quantity balance or credit due, and exact location, and type of utility. The city shall maintain a separate fund, for permanent patching of all city streets. All payments by utility contractor or others excavating in the public street will be deposited in the fund, and payments for permanent patching completed will be disbursed from the fund.

### **Detailed patching requirements.**

Permanent patching shall be performed as follows:

**(a) Sidewalks.** Temporary bituminous material shall be removed. Existing walk faces shall be straight and true with no cracks or breaks, if not, shall be cut at next sound transverse joint. Subgrade material shall be removed to five (5) inches below finish grade one-half inch preformed full depth and width expansion joints shall be placed against existing concrete. Portland cement concrete shall be as specified in Chapter 21 of the City Ordinances. Topsoil and seeding shall be repaired as specified in Chapter 21 of the City Ordinances. Bituminous concrete walks shall be repaired as specified in subsection (c).

**(b) Curbing.** Curbing shall be replaced to conform to existing adjacent curb. Existing curb shall be cut to neat true lines. Concrete and granite curb replacement shall be not less than three (3) feet. Bituminous curb less than twenty-five (25) feet may be hand formed to proper cross section. Curbing shall conform to Chapter 21 of the City Ordinances.

**(c) Pavement.** Existing bituminous material shall be removed, existing pavement shall be cut to reasonably straight longitudinal lines, transverse jogs within ten (10) feet of each other shall not be accepted, transverse cuts shall be perpendicular to the longitudinal cut. Several small excavations shall be widened into one. If existing pavement has cracked due to trench settlement, the edge of the trench shall be cut beyond such cracks to firm true pavement. The subgrade shall be graded and compacted to three (3) inches below finished grade. The contractor shall add any necessary processed gravel to bring trench to subgrade, care shall be taken to keep processed gravel tight under adjacent pavement. Edge of existing bituminous shall be painted with hot liquid asphalt prior to paving. Transverse joints in new patch shall be cut square and painted with hot liquid asphalt. Bituminous material shall be placed in two (2) equal layers of one and one-half inches compacted. Finished surface shall meet existing surface neat and true. Edges of completed patch shall be sealed with an application of hot liquid asphalt three (3) inches minimum wide. Finish surface shall be lightly dusted with cement or fine quarry screenings. Patch shall be barricaded and traffic kept off for at least four (4) hours.