

S P E C I F I C A T I O N S

For the Construction of Macadam
Roadway in the City of Redlands, Cal.

Resolution of Intention No. 381

gravel.

4. The entire roadway shall be plowed and broken up to allow new and old material to bond together.

5. After a block or section has been graded, as above specified, the surface shall be rolled with an engine roller of not less than ten tons in weight until it is unyielding. The roadbed shall be thoroly watered before rolling. Depressions made by the roller shall be levelled up with good earth and rolled again. Such portion of the street as cannot be reached by the roller, and all places excavated below the subgrade and refilled and all pipe trenches and other places that cannot be properly compacted by the roller, shall be tamped solid and in case of wet weather or soft muddy ground, making the use of the roller unsafe or impracticable, the rolling shall not be undertaken until the ground has become sufficiently dry to allow there rolling.

Macadam Pavement:

1. Upon the sub-grade prepared as hereinbefore specified, a layer of rock, as herein specified, shall be uniformly spread to such a depth that when thoroly compacted it shall have a depth of three and one half ~~feet~~ (3½") inches.

2. This course shall be watered and rolled until the stone is thoroly compressed and locked together. All depressions shall be filled with rock and again watered and rolled.

3. The sprinkling and rolling shall be continued until the rock ceases to sink under or creep in front of the roller. The surface must be uniformly smooth and conform to the required cross-section and grade.

4. After this course has dried out, one or more applications of stone screenings or sand shall be uniformly spread over the surface and swept in with street brooms in sufficient quantity to fill all voids.

5. It shall then be watered and rolled and the applica-

of the sub-grade.

7. Care must be taken in watering to prevent any saturation watered sufficiently to remove dust.

and sand shall be broomed to the gutters and the surface shall be

8. Three coats of asphaltic oil shall then be applied, six-
tenths of a gallon to the square yard of surface in each of the first
two applications and three tenths of a gallon to the square yard of
surface in the third application if the oil is eighty per cent (80%)
asphalt. If oil containing ninety per cent (90%) asphalt, or more,
is used each of the first two applications shall be one-half gallon
per square yard of surface for the first two applications and one-
quarter gallon per square yard of surface for the third application.

Asphaltic Oil Wearing Surface:

1. After the macadam pavement has been laid and prepared as
specified, its entire area shall be evenly coated with asphaltic oil of
the quality hereinafter specified. The asphalt shall be applied in
three coats, each a uniform sheet, by means of pressure distributing
sprays only and shall be at a temperature of not less than one hundred
eighty (180) degrees Fahrenheit.

2. The pressure sprays shall be operated at a uniform pressure
of not less than twenty (20) pounds per square inch.

3. Immediately after the first coat of asphalt has been applied
it shall be covered with a course of rock screenings of size between
three-quarter inch ($\frac{3}{4}$ ") and one-quarter inch ($\frac{1}{4}$ ") sufficient to entire-
ly cover the asphalt and be allowed to stand at least twenty-four hours.
After the first course has hardened it shall be rolled and the surplus
screenings shall be swept off and the second coat of asphalt applied.

It shall then be covered with one-quarter inch ($\frac{1}{4}$ ") screenings suffi-
cient to completely absorb any surplus oil and rolled until smooth and
hard and any oil coming to the surface shall be absorbed by applying
screenings. The third and final course shall be applied.

and of uniform quality.

kinds from the site of the work and leave the whole clean, presentable and in a workmenlike manner.

Whenever the word "Contractor" is used in these specifications it refers to the party or parties of the second part in the agreement for the construction of the work herein specified.

Whenever the words "Engineer" or "Inspector" are used in these specifications, they refer to the City Engineer of the City of Redlands, his duly authorized agents or inspectors.

Filed March 4 1925.

Geo. S. Hinckley
City Engineer.