

Ordinance No. 17277.

loam, vegetable matter, and pieces smaller than one-half inch in diameter shall be removed. The rock shall be thoroughly washed if

An Ordinance to amend Section Fifteen (15) of Ordinance No. considered necessary by the City Engineer.

14253, entitled "An Ordinance in relation to the improvement of streets."

All cement shall be artificial Portland cement, free from

The City of Portland does ordain as follows: lumps and deterioration on account of exposure to the weather, and

Section 1: That Section Fifteen (15) of Ordinance No. must be approved by the City Engineer, who shall have access to it, 14253 entitled, "An Ordinance in relation to the improvement of streets," be and the same is hereby amended so as to read as

follows:

All sand must be clean, sharp sand, known as Columbia River

Section 15: All artificial stone sidewalks and curbs hereafter laid in the City of Portland shall be done as follows:

(CURB)

Upon the foundation prepared as heretofore specified will be The curb shall be sixteen (16) inches deep, six (6) inches in width at top, and batter out at the rate of one inch in one foot, and shall be beveled or rounded on the upper and outer edge.

(FOUNDATION)

The space over which the walk is to be laid shall be excavated to the proper sub-grade and thoroughly compacted by rolling or ramming. Any objectionable or unsuitable material below sub-grade

The concrete shall be made of three parts by volume of sand will be removed and the space filled with gravel or sand, well rammed in place. The finished sub-grade shall be parallel with the surface of the finished walk. When the sidewalk does not

cover the whole width of the sidewalk the space not covered shall be filled or excavated to the top of the curb.

(ROCK)

The rock forming the concrete to be the best hard, dark colored, sound basalt rock, granite or equally hard stone, broken in pieces not larger than two inches largest diameter, nor smaller than one-half inch in diameter, or gravel of similar sizes may be used instead of rock.

The broken rock shall be screened so that all dust, clay required for immediate use, and none remaining unused until having

set shall be remixed or used in any way. The whole operation of mixing and laying each batch of concrete shall be performed as expeditiously as possible. The rock shall be thoroughly washed if considered necessary by the City Engineer.

(CEMENT)

When the surface the wearing surface will be laid three-fourths of an inch in thickness. It shall be composed of one part lumps and deterioration on account of exposure to the weather, and must be approved by the City Engineer, who shall have access to it, for the purpose of testing at least ten days before it is used.

(SAND)

All sand must be clean, sharp sand, known as Columbia River Sand. The dry lamp

black shall be thoroughly mixed with the sand before mixing with the cement.

Upon the foundation prepared as heretofore specified will be laid a bed of concrete three inches in thickness to be made as follows:

The cement and sand will be thoroughly mixed dry and made into a mortar with the least possible amount of water; to this will be added the broken stone thoroughly drenched with water, but containing no loose water in the heap.

The concrete shall be made of three parts by volume of sand to six parts by volume of broken stone or gravel, together with sufficient Portland cement to make one cubic yard of concrete with each barrel of cement.

The concrete shall be measured, rammed in place, and a barrel of cement shall mean three hundred and eighty pounds of Portland cement net weight.

The rock shall be incorporated immediately with the specified measure of mortar and thoroughly mixed. It shall then be spread

and at once thoroughly compacted by ramming until free mortar appears on the surface. The upper surface shall be made exactly parallel with the surface of the completed work. The mortar and the concrete shall not be mixed in greater quantities than is required for immediate use, and none remaining unused until having

set shall be remixed or used in any way. The whole operation of mixing and laying each batch of concrete shall be performed as expeditiously as possible.

(WEARING SURFACE.)

Upon the surface the wearing surface will be laid three-fourths of an inch in thickness. It shall be composed of one part of cement and one part of sand. To each barrel of sand used in making the wearing surface, one pound of dry lamp black shall be added. The lamp black to be either the Old Abe or Eagle Brand of Germantown lamp black, or a lamp black equally as good, and satisfactory to the City Engineer shall be used. The dry lamp black shall be thoroughly mixed with the sand before mixing with the cement.

The wearing surface shall be laid three fourths of an inch in thickness upon the concrete base, while the latter is still soft and adhesive, and must be thoroughly worked and brought to a uniform but roughened surface. It shall be cut as nearly as possible into slabs three feet square, or of such other size or shape as directed, and if required by the City Engineer, shall be protected from the action of the sun, wind and rain until thoroughly set.

(UPPER AND OUTER SURFACE OF CURB.)

The upper and outer three-fourths of an inch of the curb shall be of the same material as the wearing surface heretofore described and subject to all conditions herein stated. The inside core shall be composed of concrete, mixed and laid similar to the concrete bed described for the walk. Planed boards shall be used for forms of curbs.

(CORNER AT INTERSECTING STREETS)

At the intersecting streets the corner shall be quadrant, with a three-foot radius, or such other radius as may be designated by the City Engineer. The upper and outer edge must be protected by a wrought iron angle iron, one quarter of an inch thick, with one and one-half inch legs, bent to the proper radius and firmly fastened

to the concrete by five anchor irons three eighths of an inch thick with a lug on the end projecting into the concrete at least six inches, and imbedded therein at the time of laying. The upper and outer face of the angle iron to conform to the place of the finished curb. Where there are catch basins the corner block must be made so as to connect with the iron grating and permit the unmolested flow of water into the basin. Movable cement covers of the proper size must also be made over catch-basins, with rings to raise them.

There shall be imbedded in the curb at the time of laying a ring bolt for hitching horses, the ring to be not less than two and one-half inches inside diameter. The bolts shall not be less than three-sixteenths of an inch thick or three-fourths of an inch in width, and the top project into the curb at least four inches, and shall have a lug on the lower end. Both the bolt and ring shall be brought as nearly flush with the top of the curb as is practicable. There shall be one ring bolt for each twenty-five feet front.
(NAME OF STREETS.)

At the intersection of cross streets the name of the streets shall be impressed in letters or figures at least three inches in height in the wearing surface of the sidewalk, and the name of the contractor doing said cement or artificial stone work, and the year when done, shall be impressed in letters and figures one inch in height in each fifty feet of sidewalk and curb.

(INSPECTION)

Whenever any cement or artificial stone sidewalk or curb is constructed upon any street under a permit as provided for in this Ordinance, the City Engineer, before issuing a certificate to the effect that the work and material conform to the requirements of the specifications set forth in this section, is authorized to make any examination or test of the same he may deem necessary, and in so doing may break said artificial stone or cement work to an extent not exceeding two (2) lineal feet of curb, and nine square feet of

sidewalk and the same shall be repaired and made good by the contractor at his expense.

(PENALTY)

Any person, firm, or corporation who shall do cement or artificial stone work in or upon any street of the City of Portland, and who shall fail to comply with the specifications set forth in this section shall be guilty of a misdemeanor, and in addition to the penalty set forth in Section 25 of this Ordinance, may be refused acceptance of all work by the City Engineer for a period of six months.

Passed the Council, December 26, 1907,

A. J. Dabner
Auditor of the City of Portland.

Approved Dec 30th 1907 Submitted to the Mayor, *Dec 30 1907*
Harry Lane
Mayor.

Ordinance No. 17277.

To amend Section Fifteen of Ordinance No. 14253, entitled, "An Ordinance in relation to the improvement of streets."

Ord. No. ~~17277~~ Repealed by Ord. No. ~~77850~~

Passed the Council, December 26, 1907.

Auditor of the City of Portland.

Submitted to the Mayor, Dec 27, 1907

acceptance of all work by the City Engineer for a addition to the penalty set forth in Section 25 of this Ordinance; for in this section shall be guilty of a misdemeanor, and in Portland, and who shall fail to comply with the specifications set artificial stone work in or upon any street of the City of ANY person, firm, or corporation who shall do cement or contractor at his expense. sidewalk and the same shall be repaired and made good by the

(PENALTY)

17277

	YEAS	NAYS
Annand . . .	1	
Baker . . .	1	
Belding . . .	0	1
Bennett . . .	1	
Cellars . . .	1	
Concannon . .	1	
Cottel . . .	1	
Driscoll . . .	1	
Dunning . . .	1	
Kellaher . . .	0	2
Menefee . . .	1	
Rushlight . .	1	
Vaughn . . .	1	
Wallace . . .	1	
Wills . . .	1	



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