Chapter 13.24 Sanitary Systems

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13.24.010 Applicability and definitions. a. This chapter is limited to sewer service installations within public easements and rights-of-way.
b. Definitions. For the purposes of this chapter, the following words and phrases shall have the meanings set forth below:
“Directly adjacent” A sewer main is directly adjacent to a lot when the sewer main is located in an easement or right-of-way that is adjacent to the lot, and either (i) the sewer main extends the entire length of the frontage of the lot along the easement or right-of-way; or (ii) the sewer main extends at least 10 feet into the easement or right-of-way adjacent to the lot, and the public works director has determined that at no time will the sewer main be extended to serve additional lots.
“Temporary connection” means a line that connects a lot to a sewer main that is not directly adjacent to the lot. (Ord. 09-45(S)§1(part), 2009; Ord. 85-25 Art. 50.1.1, 1985,).

13.24.020 Materials--Gravity line. This section is limited to utility sewer service connections and odes not apply to sewer mains.
a. Ductile iron sewer pipe (DIP) class 50 conforming to ASTM A0746, AWWA STD. C-151 and AWWA STD. C-104; or
b. Cast iron soil pipe and fittings conforming to ASTM A-746; or
c. No-hub cast iron soil pipe and fittings conforming to AA group 022;
d. U.S. Tyton joints systems (TYSEAL) U.S. Pipe co. or equal are approved;
e. All Tyton joints seals must be made with tools specifically designed for that purpose;
f. No-hub sewer service couplings: size four-inch approved only;
g. Cast iron flanges and saddles, male or female, with either single stainless steel band or double band clamp are approved. (Ord. 85-25 Art. 50.1.2.(a), 1985).

13.24.030 Materials--Pressurized line. This section is limited to utility sewer service connections requiring pressurized flow or life and does not apply to sewer mains.
a. No galvanized pipe shall be used.
b. Standard size tow inch HDPE socket fused poly-ethylene plastic pipe and fittings are approved. Qualified as type III, category 5, class C, grade P34 in ASTM D-1248 with a design pressure rating of one hundred (100) psi minimum. Pipe shall be SCLAIRCOR series 100 or equal. (Ord. 85-25 Art. 50.1.2(b), 1985).

13.24.040 Construction and installation--Gravity line. This section is limited to gravity sewer service installation.
a. Five-foot minimum bury unless specifically allowed by the Public Works Inspector; except, that in roadway, the minimum bury is seven feet. In cases allowed, rigid board insulation of two-inch thickness minimum by twenty-four inches wide shall be placed six to twelve inches above the component on top of the bedding/backfill and centered in line with the component.
b. The service line stubouts shall be placed on the property line or utility line as applicable. No service shall be placed closer than five feet to any property line not parallel to the main line.
c. The sewer service line must have a minimum horizontal separation of ten feet from any water service line, fire hydrant, or main line valve.
d. The contractor shall install the service at ninety degrees to the street main line whenever possible.
e. The service line may not cross property lines, except where the line comes from the main line in the public rights-of-way to the property being served, except with the written permission of the Public Works Director.
f. A lot may be connected only to a sewer main that is directly adjacent to the lot.

g. Within the time provided in this subsection, a temporary connection shall be disconnected at the sewer main and replaced with a connection to a sewer main that is directly adjacent to the lot, at the expense of the lot owner. Upon connecting to the directly adjacent sewer main, the lot shall bear a portion of the cost of constructing the directly adjacent sewer main on the same basis as other lots that receive access to sewer service through the construction.
1. If there is no sewer main directly adjacent to the lot as of the effective date of this subsection, the temporary connection shall be replaced no later than one year after a sewer main directly adjacent to the lot is placed in service; provided that the replacement shall be made during construction of the directly adjacent sewer main when necessary to maintain sewer service to the lot. The city shall notify a lot owner of the owner's obligations under this paragraph before commencing construction of the sewer main.
2. If there is a sewer main directly adjacent to the lot as of the effective date of this subsection, the temporary connection shall be replaced no later than one year after the effective date of this subsection The city shall notify a lot owner of the owner's obligations under this paragraph within 60 days after the effective date of this subsection.
h. All taps into the main line must be made with tools designed specifically for that purpose and must be sized correctly for the specific sewer service connection. Only hole-cutter type tools such as manufactured by Pilot may be used to tap the main. Cutoff saws will not be allowed.
i. The City of Homer will not rent or loan any tools for sewer service installation except in the case of emergency as determined by the Public Works Director or his appointed agent.
j. The tap into the main shall be at approximately forty-five degrees above horizontal.
k. A sweep of twenty-two and one-half degrees to forty-five degrees shall be installed above the main to attain the proper elevation and grade.
l. The pipe shall continue at a continuous grade of one percent to three percent until under the foundation of the structure served. In some cases, twenty-two and one-half degree drops may be approved as determined by the Public Works Inspector.
m. No floor drains, drain tile systems nor other devices may be connected to the sewer system by a service or directly which would allow the entry of rain water or runoff water into the system.
n. Grease traps and sand traps shall be installed by the most recent State-accepted Uniform Plumbing Codes.
o. Cleanouts shall be installed at bends greater than forty-five degrees. No service line may continue over one hundred feet without a cleanout being installed as measured form the main line.
p. Backwater prevention devices shall be installed where the potential for backflow exists as the result of flooding or blockage of the sewer system.
q. Cleanouts shall be covered with the appropriate cap.
r. The work must be free of leaks and flaws.
s. The bottom of the excavation and/or bedding must be uniformly graded, and free of dips, bumps and large rocks.
t. The trench shall be kept free of water at all times by pumping if required.
u. In the event that ductile iron pipe is used for the service pipe, it shall be carried into position and not dragged. It shall be lowered into the excavation by means of a sling in such a manner that it is not dropped nor the pipe or fitting coating injured. The full length of the pipe shall rest on the bottom of the excavation wit a recess allowed for the joint. While work is in progress, the open ends of the pipe shall be kept plugged so no trench water, dirt of foreign matter enters the pipe. Where the pipe coating or lining are damaged, they shall be repaired by the contractor in a satisfactory manner. All pipe joints shall be lubricated with Johns-Mannville pipe joint lubricant or an inspector-approved equal.
v. The backfilling shall be done in such a manner as to assure that neither large rocks nor frozen lumps fall on the pipe. All sewer lines and components shall be bedded, backfilled and compacted to ninety-five percent of maximum material density. Only classified material shall be used for bedding and backfill as determined by the Public Works Inspector. In some cases, suitable bedding and/or backfill material may be encountered in the excavation and imported material may not be required as determined by the Public Works Inspector.
w. No extension of a sewer service line may be made even on private property without the approval of the Public Works Inspector so that appropriate sizing, inspection and as-built records can be made.
x. the public rights-of-way must be restored to their original condition before a service is accepted.
y. No service will be accepted without copies of the required as-built plans, records and test data. (Ord. 09-45(S)§ 2&3(part), 2009; Ord. 87-28 3, 1988; Ord. 85-25 Art. 50.1.3, 1985).

13.24.050 Construction and installation--Pressurized line. This section is limited to utility sewer service connections with pressurized flow from a private service requiring a lift station.
a. The plans and specifications for the lift station must be reviewed and approved by the Public Works Inspector and the requirement for any specific lift station installation must be approved by the Public Works Director.
b. Seven-foot minimum bury unless specifically allowed by the Public Works Inspector. In cases allowed, rigid four inches wide shall be placed six to twelve inches above the component on top of the bedding/backfill and centered in line with the component.

c. The service line shall be placed on the property line or utility easement line as appropriate. No service shall be placed closer than five feet to any property line not parallel to the main line.
d. The sewer service line must have a minimum horizontal separation of ten feet from any water service line, fire hydrant or main line valve.
e. The contractor shall install the service at ninety degrees to the street main line whenever possible.
f. The service line may not cross property lines, except where the line comes from the main line in the public rights-of-way to the property being served.
g. Service to property that does not have a main directly adjacent to it will require a design review, a special permit and an installation agreement approved by the Public Works Director. Generally this applies to property where no other main line will be considered to serve the property.
h. The sewer service line shall be minimum of two-inch diameter polyethylene pipe. Larger sewer service lines shall be required as the Public Works Inspector determines necessary.
i. All taps into the main line must be made with tools designed specifically for that purpose and must be sized correctly for the specific sewer service connection. Only hole-cutter type tools such as manufactured by Pilot may be used to tap the main. Cutoff saws will not be allowed.
j. The City of Homer will not rent or loan any tools for sewer service installation except in the case of emergency as determined by the Public Works Director or his appointed agent.
k. The tap into the main shall be at approximately forty-five degrees above horizontal.
l. Saddles shall be cast iron male for female with either single stainless steel band or double clamp.
m. Use flanged couplings for terminating polyethylene service line at the sewer main service saddle arrangement.
n. Grease traps and sand traps shall be installed by the most recent state-accepted Uniform Plumbing Codes.
o. The work must be free of leaks and flaws.
p. The bottom of the excavation and/or bedding must be uniformly graded, and free of dips, bumps and large rocks.
q. The trench shall be kept free of water at all times by pumping if required.
r. The backfilling shall be done in such a manner as to assure that neither large rocks nor frozen lumps fall on the pipe. All sewer service lines and components shall be bedded, backfilled and compacted to ninety-five percent of maximum material density. Only classified material shall be used for bedding and backfill as determined by the Public Works Inspector.
s. No extension of a sewer service line may be made even on private property without the approval of the Public Works Inspector so that appropriate sizing, inspection and as-built records can be made.
t. The public rights-of-way must be restored to their original condition before a service is accepted.
u. No service will be accepted without copies of the required as-built plans, records and test data. (Ord. 87-25 4, 1988; Ord. 85-25 Art. 50.1.4, 1985).

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