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**Cedar River Water & Sewer District**  
18421 SE Petrovitsky Road  
Renton, WA 98058

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**VOLUME II**

**Standard Specifications for Side Sewer  
Permitting, Design, Construction,  
Repair, Inspection, Testing and Use**



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## **Introduction**

On October 7, 1964, the District exercised the right to construct, maintain and operate a sanitary sewer system within a defined, legal boundary as provided by Washington State Law RCW Chapter 56 (now Chapter 57).

The sanitary sewer system has been developed in accordance with the sewer portion of the District's Comprehensive Plan. These Standard Specifications for Side Sewer Permitting, Design, Construction, Repair, Inspection, Testing and Use compliment and assist the District in carrying out the Comprehensive Plan and have been adopted by the District Board of Commissioners by resolution number 21-06 dated 03/02/2021.

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# **STANDARD SPECIFICATIONS FOR SIDE SEWER PERMITTING, DESIGN, CONSTRUCTION, REPAIR, INSPECTION, TESTING AND USE**

## **1. DEFINITION OF TERMS**

1. **CONTRACTOR:** Any person, partnership, corporation or association duly qualified and competent to install or repair Side Sewers under Permits issued by the District. Contractors shall have a State of Washington contractor and business license and, if applicable, business license issued by municipality having jurisdiction in the work area.
2. **DISTRICT:** Cedar River Water & Sewer District of King County, Washington.
3. **FOG:** Fats, oils and grease; and other organic compounds derived from plant and/or animal sources that contain multiple carbon chain triglyceride molecules.
4. **INSPECTOR:** A District employee responsible for inspecting side sewer work and signing Permits.
5. **INTERCEPTOR:** A structure designed to capture FOG such as a grease interceptor.
6. **MANAGER:** The General Manager of the District or authorized deputy, inspector, agent or representative.
7. **OWNER:** An individual, group or entity that owns the Property served or to be served by a Side Sewer.
8. **PERMIT or SIDE SEWER PERMT:** A printed and serially numbered form issued by the District authorizing construction or repair of any Side Sewer on a specifically identified parcel of Property.
9. **PROPERTY:** A parcel of improved real property that an Owner desires to connect or is connected to the District's Sewer System.
10. **SEPARATOR:** A device designed to sequester oils from water such as an oil/water separator.
11. **SEWER OR SEWER SYSTEM:** Sewer mains and appurtenances, including the Stub, operated by the District to convey sanitary wastes and wastewater from homes and buildings properly authorized for sewer service.
12. **SIDE SEWER:** A pipeline commencing at a point that is approximately eighteen (18) inches outside of the foundation of a home or building and ending at the point of connection with a Stub and used for the conveyance of sewage into the Sewer System.
13. **SPEC'S:** This document consisting of and entitled Standard Specifications for Side Sewer Permitting, Design, Construction, Inspection, Testing and Use.

14. **STUB:** That portion of the Sewer System commencing from the tee in a sewer main and terminating at the edge of the right-of-way or an easement in which the District is the grantee.

15. **STORM WATER:** Water on the ground surface or underground resulting from rainfall or other natural conditions including water from downspouts, sump pumps, footing and yard drains, uncovered surface drains, pool drains and basement drains.

16. **TRAP:** A structure designed to capture FOG such as grease trap.

17. **WASTEWATER:** Water carrying wastes containing either or both sewage and industrial wastes and solids.

18. **WTD:** King County Wastewater Treatment Division.

## 2. GENERAL

Side Sewers are installed by Owners or their Contractors on private property at their sole cost and are the sole responsibility of the Owner.

Side Sewers must be installed, inspected and used in conformance with these Spec's.

Side Sewers shall not be installed until the building to which sewer service is to be provided is weather tight and rough plumbing is installed.

**Exception:** Side Sewer installation may be allowed at building foundation stage, if requested in advance, provided all of the following provisions are met:

1. A Dual Inspection Side Sewer Permit is purchased.
2. Side Sewer is extended into the crawl space and capped at least one (1) foot above finished crawl space grade.
3. Side Sewer line into the crawl space is not connected to the building plumbing until after the building is weather tight and rough plumbing installed, and crawl space inspected by Inspector.

Side Sewer Permit fees are listed in the District's current Rate & Fee Schedule and may be adjusted from time to time by the District's Board of Commissioners.

The Owner may be responsible for all additional costs incurred by the District for additional inspections.

Owners are the only person authorized to install and repair Side Sewers on their Property other than a Contractor engaged by the Owner. The Owner or Contractor shall be wholly and solely responsible for workplace safety and compliance with all laws, regulations and governmental permits including the Permit.

### 3. SIDE SEWER PERMITTING

#### 3.a GENERAL REQUIREMENTS

1. Owner or a Contractor or attorney in fact appointed by Owner must apply for permission to construct and connect, rebuild or repair, extend, or temporarily disconnect a Side Sewer. No person shall excavate for the purpose of exposing a Side Sewer, and such persons shall not make any modifications to an existing Side Sewer (including the cutting of holes in the pipeline and/or installation of additional fittings), without first obtaining a Permit.
2. Applicants must review the Spec's prior to construction.
3. Applications for Permits must be submitted a minimum of twenty-four (24) hours in advance to allow time for processing.
4. A Permit is required for each individual structure to receive sewer service.
5. Permit copy must be available on the job and be readily accessible to the Inspector for approval and signature.
6. Inspection of all work on a Side Sewer is required by an Inspector.
7. Issuance of a Permit by the District shall not relieve Owners or Contractors from the responsibility of obtaining other permits or licenses that may be required.
8. **Failure to Comply with Permit Provisions:** If any work performed under a Permit is not in compliance with Spec's, and if Owner or Contractor fails or refuses to properly construct and complete the work, notice of such failure or refusal shall be given to the Owner or Contractor. The District may cause the work to be stopped. If incomplete work constitutes a hazard to public safety, health or the Sewer System, the work may be fully or partially completed by the District in order to alleviate the hazard. The cost of the work including materials necessary therefore shall be charged to the Owner and shall be payable by the Owner immediately upon written notice issued by the District to the Owner or Contractor or posted on the premises.

#### 3.b OWNER RESPONSIBILITIES

1. Owners shall comply with all regulations, requirements, Spec's, policies and procedures, and comply with the terms and conditions set forth herein.
2. Where a Side Sewer is to be installed across private property that is not owned by an Owner, an Owner shall provide the District a recorded copy of all executed easement(s) granted to Owner that authorize the installation.
3. Backwater valves shall be the responsibility of Owners.

4. Traps, Interceptors, and Separators shall be the responsibility of Owners.
5. If upon request and for good cause, the District authorizes a deviation from these Spec's, the District may require a release form to be executed by Owner that acknowledges the deviation and accepts the risk therefore which shall be recorded in the King County Auditor's Office. Recording fees shall be paid for by Owner and are listed in the District's current Rate & Fee Schedule.

### **3.c CONTRACTOR RESPONSIBILITIES**

1. Contractors shall provide a copy of its Washington State contractor's license and shall be experienced and qualified to perform side sewer installation and repair work.
2. Contractors shall provide to the District a Certificate of Insurance showing Commercial General Liability (CGL) insurance with limits of not less than \$1,000,000 for each occurrence combined single limit bodily injury and property damage prior to the performance of any work with provision that such insurance shall not be canceled without at least forty-five (45) days written notice in advance to the District. The CGL policy shall contain an endorsement or policy wording naming Cedar River Water & Sewer District as an additional insured.
3. Contractors shall review all regulations, requirements, and policies and procedures of the Spec's prior to construction and comply with the terms and conditions set forth herein.
4. Contractors shall agree in writing, which agreement may be contained in the Permit, to defend, indemnify and save harmless Cedar River Water & Sewer District from all claims, actions, or damages of every kind and description, including reasonable attorney fees and necessary litigation expenses incurred by the District, that may accrue to or be suffered by any person arising out of any opening in any street, alley, avenue, or other public place made by the Contractor or those in the Contractor's employ, in making any connection with any public or private sewer, or for any other purpose or object associated with side sewer construction and related activities, except for such losses that directly result from the sole negligence of the District.
5. No Contractor may perform Side Sewer work under another's permit, nor may any unauthorized person perform Side Sewer work under Contractor's Permit, except as may be otherwise authorized by the District.
6. Contractors must provide forty-eight (48) hours advance notice for Side Sewer inspection.
7. Work in Public Right-of-Way
  - a. Where work in the public right-of-way is required in connection with the installation or repair of a Side Sewer including connecting it to the Stub, the

District must obtain a right-of-way permit from the applicable general purpose government before commencement of work. The cost of obtaining and complying with a right-of-way permit shall be the responsibility of the Contractor or Owner.

- b. All work within any right-of-way shall be prosecuted to completion with due diligence. Excavations may not be left open, and any excavation not properly secured may be backfilled and right-of-way restored by the District. Costs incurred in such work may be charged to Contractor in charge of such work and shall be payable immediately to the District upon written notification of the amount thereof given to the Contractor or posted at the location of the work.
  - c. Contractors may be required to supply District with a Performance Bond or a deposit in lieu of a bond in an amount determined by the District in order to work on side sewer installations within the right-of-way.
8. If a Contractor does not comply with the provisions in following the rules and regulations established herein or any amendments hereto, or has demonstrated just cause for suspension, the District shall have the right to revoke the Permit and privileges of the Contractor.
9. If an Owner is performing the work of installing a Side Sewer, the requirements of this Section shall apply to Owner.

#### **4. SIDE SEWER DESIGN**

##### **4.a PIPE, FITTINGS AND APPURTENANCES**

- 1. Side Sewers serving single family residential structures shall be a minimum 4 inches in diameter. Side Sewers serving other than single family residential structures shall be a minimum of 6 inches in diameter.
- 2. No Side Sewer less than 6 inches in diameter shall be installed in public rights-of-way or in easements.
- 3. Unless otherwise specified, Side Sewer pipe shall be PVC or ductile iron and meet the following specifications:
  - a. PVC; Type PSM-SDR-35-ASTM 3034 with standard gasket joints.
  - b. Ductile Iron; Class 50 AWWA with mortar lining conforming to AWWA C104 with mechanical push-on type rubber joints.
- 4. All Side Sewers shall be laid straight and true to grade with the bells up grade. All changes in direction shall be made using stock bends, 22.5 degree and 45 degree. Changes in direction of 90 degrees shall be made using two 45 degree bends with 24 inches of pipe in between.

5. Not more than 90 degrees in bends or 100 lineal feet of pipe shall be installed between cleanouts. Side Sewers greater than 150 lineal feet in length must be approved by the District prior to construction.
6. Cleanouts:
  - a. Connection to Stub shall utilize a sweeping tee, also known as a tee-wye or sanitary tee, sized the same as Stub. Cleanout shall be extended to 3 feet from finished grade, and capped (plugs not acceptable) with 1 foot of bedding material placed over the cap.
  - b. Cleanout wye located at the structure shall be installed 2 feet from structure at a minimum 2 feet deep. If installed deeper than 2 feet, cleanout shall be extended to 2 feet from the surface and capped. Cleanout shall not be installed under any structure (e.g. porches or decks). All other Side Sewer cleanouts shall be wye-style and the same size as the Side Sewer pipe.
  - c. Cleanouts within paved areas, rights-of-way, and on non-single family residential properties shall be installed utilizing a "Lamphole" cleanout per Standard Plan No. 4 of Spec's.
7. Sanitary sewer pipes exiting the structure at less than 6 feet deep may connect to the Side Sewer with a double band flexible coupling or Romac style coupling. Sanitary sewer pipes more than 6 feet deep, or that differ by two or more pipe diameters compared to the Side Sewer, or consist of dissimilar pipe materials, must use a mechanical Romac style coupling.
8. Side Sewer backwater valves shall be installed when the lowest finished floor of the structure is less than 2 inches higher in elevation than the first upstream sewer manhole cover. Backwater valves shall be installed with an access riser and to the standards of the municipality having jurisdiction over the internal plumbing of the structure.
9. Connections to the District's Sewer System shall be gravity flow except for exceptional circumstances and unless authorized in writing by the District. Private sewer pump systems for side sewers must be submitted to and reviewed by the District for approval or rejection.

#### **4.b GRADES, SLOPE, BEDDING AND COVER**

1. Minimum slope shall be 2% for 4 inch pipe and minimum slope shall be 1% for 6 inch pipe. Maximum slope shall be 20% for 4 and 6 inch pipe without prior approval from the District.
2. If the slope of the Side Sewer is less than required by the Spec's, the Owner shall sign and acknowledge a deviation or grade release in a form approved by the District, the effect of which shall release the District from all future claims for damages due to the installation of the Side Sewer. If there is doubt about the

grade, the release shall be executed before the Side Sewer is constructed. Whether or not a release form is executed the District shall have no responsibility of a Side Sewer which deviates from the Spec's.

3. All Side Sewer pipes shall be bedded with 5/8 inch crushed gravel, 4 inches below to 6 inches above the pipe. All pipe bedding, laying and joining shall be done in accordance with the manufacturer's recommendations and as approved by the District. **PEA GRAVEL SHALL NOT BE ALLOWED.**
4. Should unsuitable foundation be encountered, as determined by Inspector, Contractor shall over-excavate as necessary and install suitable material to within 4 inches of grade, then install pipe bedding.
5. Minimum cover for Side Sewers on private property shall be 18 inches, and minimum cover at right-of-way line shall be 6 feet. For side sewers greater than 18 feet deep, the District shall review as special requirements may apply.
6. Side Sewers parallel to the foundation wall of any structure shall not be installed less than 24 inches therefrom.

#### **4.c GREASE INTERCEPTORS, GREASE TRAPS, AND OIL WATER SEPARATORS**

1. District-approved Interceptors and Traps shall be installed at locations where the District deems necessary to protect the Sewer System. All discharge from Interceptors and Traps into the Sewer System must meet FOG limits.
2. Prior to construction, design drawings and submittals for Interceptors and Traps must be submitted to the District for review and approval. Interceptors and Traps shall be inspected by Inspector prior to connection to the Sewer System. Inspector shall as-built installation. Responsibility of construction, inspection, operation and maintenance are the Owner's at their expense.
3. District-approved Separators located in Side Sewer lines shall be installed for vehicle washing and vehicle service facilities, or any other facility required by the District or WTD.
4. Prior to construction, design drawings and submittals for Separators must be submitted to District for review and approval. Separators shall be inspected by Inspector prior to connection to the Sewer System. Inspector shall as-built installation. Responsibility of construction, operation and maintenance of Separators, including ongoing inspection, are the Owner's sole responsibility.

#### **4.d SPECIAL CONDITIONS; LAKEFRONT CONNECTIONS**

Side Sewers on lakefront lines shall use PVC pipe between the lakefront connection to a point 2 feet above the hydraulic gradient. A cleanout shall be installed above the hydraulic grade line or lake level. The remaining installation shall be standard or as specified herein for normal conditions.

#### **4.e SPECIAL CONDITIONS; STEEP BLUFF CONNECTIONS**

Designs for Side Sewers in steep slopes must be submitted to and approved by the District. A steep bluff is defined as having a slope of greater than 50%.

#### **4.f SPECIAL CONDITIONS; WATER LINE CROSSINGS**

1. Separation of Side Sewer from Private Water Lines: Horizontal and vertical separation of parallel, perpendicular, or gravity and pressure side sewers shall comply with the local health authority having jurisdiction.
2. Separation of Side Sewer from District Water Lines:  
Minimum horizontal separation edge to edge between parallel water and Side Sewer lines shall be 10 feet. Minimum vertical separation between crown of the Side Sewer and invert of water lines shall be 18 inches. Crossing shall be made as close as possible at an angle of 90 degrees. Proposed installations where separation cannot conform to these requirements, and all Side Sewers crossing over water lines, and all pressure Side Sewers crossing water lines must be reviewed by District for approval or rejection, and mitigated as directed. See following subsections for additional guidance.
  - a. When conditions prevent the minimum vertical separation for perpendicular lines as described above, Side Sewers shall be constructed of Ductile Iron Class 51 /C104 pipe with C110 joints and C110 fittings, or of PVC C900 pipe with D3139 and FD7477 joints and C110 fittings. Maximum standard lengths of pipe (not less than 18 feet long) used for Side Sewer shall be centered at the point of crossing so that the joints are equidistant and as far as possible from the water line. Crossing shall be made as close as possible at an angle of 90 degrees.
  - b. When conditions prevent the minimum separation between parallel lines as described above, Side Sewers may be laid closer than 10 feet horizontally provided they are laid in a separate trench. If a minimum vertical separation of 18 inches cannot be achieved, the Side Sewer shall be constructed of Ductile Iron Class 51 /C104 pipe with C110 joints and C110 fittings, or of PVC C900 pipe with D3139 and FD7477 joints and C110 fittings. Standard gravity-Side Sewer pipe, as specified in above, may be used if encased in concrete or in a 1/4 inch thick continuous steel, ductile iron, or pressure rated PVC pipe with a dimension ratio (outside diameter to pipe wall thickness) of 18 or less, with all voids pressure- grouted using sand-cement grout or bentonite. Commercially available pipe skids and end seal are acceptable.
  - c. If a Side Sewer must be located in the same trench as a water line, special construction shall be required. Both water line and Side Sewer line shall be constructed inside a casing of pressure-rated pipe material engineered to withstand minimum 150 psi static pressure. The water line shall be placed on a bench of undisturbed earth with the invert of the water pipe at least 18 inches above the crown of the Side Sewer, and shall have a minimum 5 feet

of horizontal separation at all times. Additional mitigation efforts, such as impermeable barriers may be required by other agencies having jurisdiction.

- d. If a Side Sewer must cross over a water line, water line shall be protected by providing a minimum vertical separation of 18 inches between the invert of the Side Sewer and crown of the water line. Adequate structural support for the Side Sewer, as determined by District, shall be provided to prevent excessive joint deflection and settling. The length of Side Sewer pipe shall be centered at the point of crossing so that joints will equidistant and as far as possible from water line. Side Sewer pipe shall be the longest standard length available from the manufacturer. Water line shall be protected by a casing, of 1/4 inch thick continuous steel, ductile iron, or pressure rated PVC pipe with a dimension ratio (outside diameter to pipe wall thickness) of 18 or less, with all voids pressure-grouted using sand-cement grout or bentonite. Casing shall extend a minimum 5 feet beyond the outside edges of pipe. Commercially available pipe skirts and end seal are acceptable. The cost of protecting the water line as described above shall be the responsibility of the Owner.
- e. Connections to District Sewer shall be gravity flow whenever possible. Pressure Side Sewers, if approved, shall be constructed below water line. Design and materials specifications for pressure Side Sewers must be submitted to the District for review and approval on a case by case basis.

#### **4.g SPECIAL CONDITIONS; PRELIMINARY TREATMENT**

Preliminary treatment may be required if the biochemical oxygen demand of the waste exceeds 250 parts per million by weight. Responsibility of construction, inspection, operation and maintenance are the Owner's at their expense.

### **5. SIDE SEWER CONSTRUCTION, INSPECTION AND TESTING**

#### **5.a SIDE SEWER CONSTRUCTION**

1. Contractor shall, at all times, have means to dewater the excavation and discharge properly per the jurisdiction having authority. At no time may groundwater, or any other liquid or solid, be allowed to enter the District's Sewer System from a Stub, or any other connection before a Side Sewer is fully constructed and tested.
2. Trench preparation; the trench bottom shall be smooth and free from large rocks which may damage Side Sewer pipe. Where unsuitable foundation is encountered, as determined by the Inspector, Contractor shall over-excavate as necessary and install suitable foundation to within 4 inches of grade before placing the pipe bedding.
3. Installation of pipe; all Side Sewer piping shall be laid straight and true to grade with the bells up grade. All changes in Side Sewer direction shall be made with

stock bends. Pipe shall have a minimum 4 inches of 5/8 minus crushed rock bedding under and 6 inches over the pipe, unless otherwise specified. **PEA GRAVEL NOT ALLOWED.** Pipe shall be carefully centered prior to joining.

4. Backfilling of trenches shall be carefully performed to avoid damaging pipe.

#### **5.b SIDE SEWER INSPECTION AND TESTING**

1. Requests for Side Sewer inspection shall be made with the District Field Supervisor or Construction Department by the Contractor forty-eight (48) hours in advance, or as set forth in notices which will be distributed from time to time. The District reserves the right to set the time for inspections. Inspections shall be performed during normal working hours, and no inspection appointments will be accommodated before 7:30 AM or after 2:30 PM. After hours inspections must be approved by the District, and overtime inspection, if approved, will be billed at the District rates for overtime. Inspection requests left after hours by message are not allowed.
2. Side Sewers shall be tested for their entire length from the Stub by testing for visible leakage before backfilling by inserting a removable plug at the lower end of the line and filling the line with water to its highest point. The Contractor shall be prepared to perform the test at the time of inspection so that Inspector can observe the test and inspect installation in one visit. Contractor must be present at the time of inspection. Testing apparatus and water shall be furnished by the Contractor. All visible leakage shall be corrected, and line retested, before installation approved by the Inspector.
3. Measurements for Side Sewer Drawing of Record shall be ascertained by the Inspector with assistance by the Contractor.
4. Permit copy at jobsite must be readily accessible to the Inspector for approval and signature.

### **6. SIDE SEWER RESPONSIBILITIES, MAINTENANCE AND USE**

#### **6.a SIDE SEWER RESPONSIBILITIES**

1. Owner shall comply with District Side Sewer Blockage/Back-up Policy & Procedures. See Appendix A.
2. Owner shall comply with District's Policy Manual including, but not limited to, Sewer Operations Section 9, and Sections 6.12.8 and 6.12.9.

#### **6.b SIDE SEWER MAINTENANCE**

1. Owner or Contractor intending to clean a Side Sewer must notify the District a minimum twenty-four (24) hours in advance. The scope of work shall be conveyed to the District, i.e. grease removal, root removal, etc.

2. Interceptors, Separators and Traps:

- a. Owner shall inspect and maintain Interceptors, Separators and Traps annually at minimum, or more often as the District determines necessary, as to prevent all FOG from entering sewer system.
- b. Owner shall keep and maintain records for all maintenance, repairs, and work performed on Interceptors, Separators and Traps. Such records shall be made available to the District upon request for review.

**6.c SIDE SEWER PROHIBITED USE, FINES AND PENALTIES**

1. Unauthorized Connection and Unauthorized Discharge:

- a. Any connection to the District's Sewer System from any means, to a sewer main or manhole, permanent or temporary in nature, which has not been Permitted and approved by the District, is an unauthorized connection and a prohibited act.
- b. Any discharge of wastes, other than from a Permitted and approved connection to the District's Sewer System, is unauthorized discharge and a prohibited act.
- c. Owners and responsible parties of unauthorized connections, or of connections that facilitate prohibited discharge, shall be liable for all damages resulting from the act of unauthorized connection and prohibited discharge, and shall bear all costs for removing an unauthorized connection to the District's standards and requirements.
- d. Owners and responsible parties, or parties that have discharged unauthorized or prohibited wastes, shall be liable to pay all costs of repair and remediation of District's Sewer System and the facilities operated by WTD, and be liable for any other damages arising out of the discharge that is unauthorized or prohibited as set forth herein, including, but not limited to damages arising from backups or blockages.

2. Prohibited Wastes (Directly or Indirectly): The following discharges into the District's Sewer System are prohibited:

- a. Storm, surface, ground or finished water from any source including, but not limited to:
  - Subsoil foundation drains, footing drains, window well drains, or door well drains.
  - Yard drains, roof drains or downspouts.
  - Basement floor drains or any outdoor or uncovered floor or surface drain.
- b. Clear water from refrigeration, reverse-cycle heat pumps, and cooling or air-

conditioning equipment.

- c. Any effluent or sludge from a septic tank or cesspool. Connection of septic tanks and drain fields, or cesspools, to the Sewer or Side Sewer is strictly prohibited, and shall be properly abandoned as per King County Health Department policy and procedure prior to Side Sewer connection to Stub.
- d. Semi-cloth materials; any personal body wipes or cleaning wipes of a semi-cloth material.
- e. Any waste prohibited by WTD, including but not limited to;
  - FOG of two types; petroleum or mineral origin (nonpolar), and animal or vegetable origin (polar). Polar FOG cannot be discharged if visible on the surface or adhering to Interceptor or Trap. Dischargers may not add agents to emulsify free-floating polar FOG. Discharge limit for nonpolar FOG is 100 parts per million.
  - Flammable or explosive liquids, solids or gasses. These pollutants include, but are not limited to, gasoline, kerosene, maltha, benzene, toluene, xylene, ethers, alcohols, ketones, aldehydes, peroxides, chlorates, perchlorates, bedmates, carbides, hydrides, and sulfides. Pollutant may be anything that King County, the Fire Department, EPA, and Washington State recognize as a hazard.
  - High temperature materials; liquid or vapor measuring 150 degrees Fahrenheit or higher at the point at which it enters sewer system.
  - Wastes having a pH lower than 5.5 and higher than 8.5, or having any corrosive property capable of causing damage or hazard to sewer structures, equipment or District personnel.
  - Organic compounds including, but not limited to; solvents, cleaners, thinners, pesticides, and laboratory chemicals that may cause toxic gases and fumes which may harm District personnel.
  - Hydrogen Sulfide: The limit for atmospheric hydrogen sulfide is 10 parts per million measured at any designated manhole.
  - Solids and food waste which cause a sewage backup. Discharge to sewer of materials including, but not limited to; ashes, sand, grass, household cleaning aids and gravel. Food waste, including food-grinder waste, must be capable of passing through a 1/4 inch sieve. Industrial wastewater must contain less than 7 milliliters per liter of solids capable of settling.

### 3. Fines and Penalties:

Any person who shall violate any provisions herein shall be liable to the District for any expense, loss, damage, cost of inspection or cost of correction incurred by the District by reason of such violation, including any cost incurred by the District in collecting from such person said loss, damage, expense, cost of inspection or cost of correction.

In addition to bearing the cost for all such costs and damages, Owner or responsible parties shall be liable for the District's fines as listed below, and any fines levied by WTD, if applicable.

**District Fines for Unauthorized Connection;**

First Offense	\$250.00
Second Offense	\$1,500.00
Third Offense & Each Additional	\$2,500.00

**District Fines for Unauthorized Discharge;**

First Offense	\$500.00
Second Offense	\$1,500.00
Third Offense & Each Additional	\$2,500.00

Any person violating any provision of this Resolution shall be served with written notice of such violation by the District providing a reasonable time limit for the satisfactory correction thereof.

**7. PROMULGATION OF RULES, AUTHORITY OF MANAGER**

District may change or amend these specifications, as it shall deem necessary or appropriate without notice.

Manager, Manager's representative or any Inspector, bearing proper credentials and identification, shall be permitted to enter upon all and any premises at all times reasonable for the purpose of inspection, observation, measuring, sampling, testing of sewers, sewage waste and performing all other acts or duties required in accordance with these provisions.

Where physical conditions render compliance with any provision of this manual impracticable, District may issue a special Permit for installation of a Side Sewer requiring compliance with said provisions insofar as is reasonably possible, but such Permit may, in the District's sole discretion, be issued only upon condition that the Owner execute and deliver to the District an instrument, in form furnished by the District, agreeing to hold harmless and indemnify the District for any damage or injury resulting from such installation.

## APPENDIX A



### **Cedar River Water & Sewer District Side Sewer Blockage/Back-up Policy & Procedures**

#### **DISTRICT OWNERSHIP**

The District owns the side sewer stub which is the portion of piping within the city or county right-of-way from the sewer main to either the edge of right-of-way or the edge of easement if the sewer main is located in an easement. District ownership does not extend beyond the right-of-way or easement in which the District is the grantee regardless of whether the stub provides service to one or two properties.

#### **CUSTOMER OWNERSHIP**

The property owner owns and is responsible for the side sewer which is the portion of piping on private property extending from the edge of right-of-way or edge of easement in which the District is the grantee to the structure served. The property owner owns and is responsible for the connection between the stub and the side sewer. If the stub serves two properties, both property owners have joint ownership of the shared single pipe portion of the side sewer prior to the wye. If the stub is found to have been shortened and the connection from the stub to the side sewer is within the right-of-way, the ownership and responsibility for the connection remains with the property owner.

#### **CUSTOMER RESPONSIBILITY**

The burden of proof on where the blockage is located within the piping is the responsibility of the property owner. If the property owner determines the blockage is in the side sewer, he or she must obtain a Side Sewer Repair Permit from the District and pursue the repair at their expense. If the property owner reasonably believes that the blockage is within the stub, the property owner must prove to the District the location of the blockage by videoing the side sewer piping or excavating and cutting the pipe open to visually see the blockage. A sond attached to a video camera which can be ground surface located may be used to determine the location of the blockage. A copy of the video must be provided to the District if it is being used to determine responsibility. If a property owner incurs damages and/or expenses from a sewer back-up and it is determined to be the District's responsibility, the property owner may submit a "Claim for Damages" form to the District which will then be evaluate by the District and its insurer.

#### **DISTRICT RESPONSIBILITY**

If the blockage or failure is within the stub and no evidence can be found it was caused by the property owner (unsuitable materials for the sewer system, build-up of unsuitable materials, broken side sewer, etc.) the District will be responsible for the repairs. The District will promptly assess if the repairs can be made by District staff or if a contractor will be used. The

District may choose to utilize the contractor already on site hired by the property owner. If it is necessary for the District and/or the District's contractor to access private property to excavate or repair the stub, a right-of-entry form shall be filled out and signed by the property owner granting access.

#### **UNSUITABLE MATERIALS FOR THE SEWER SYSTEM**

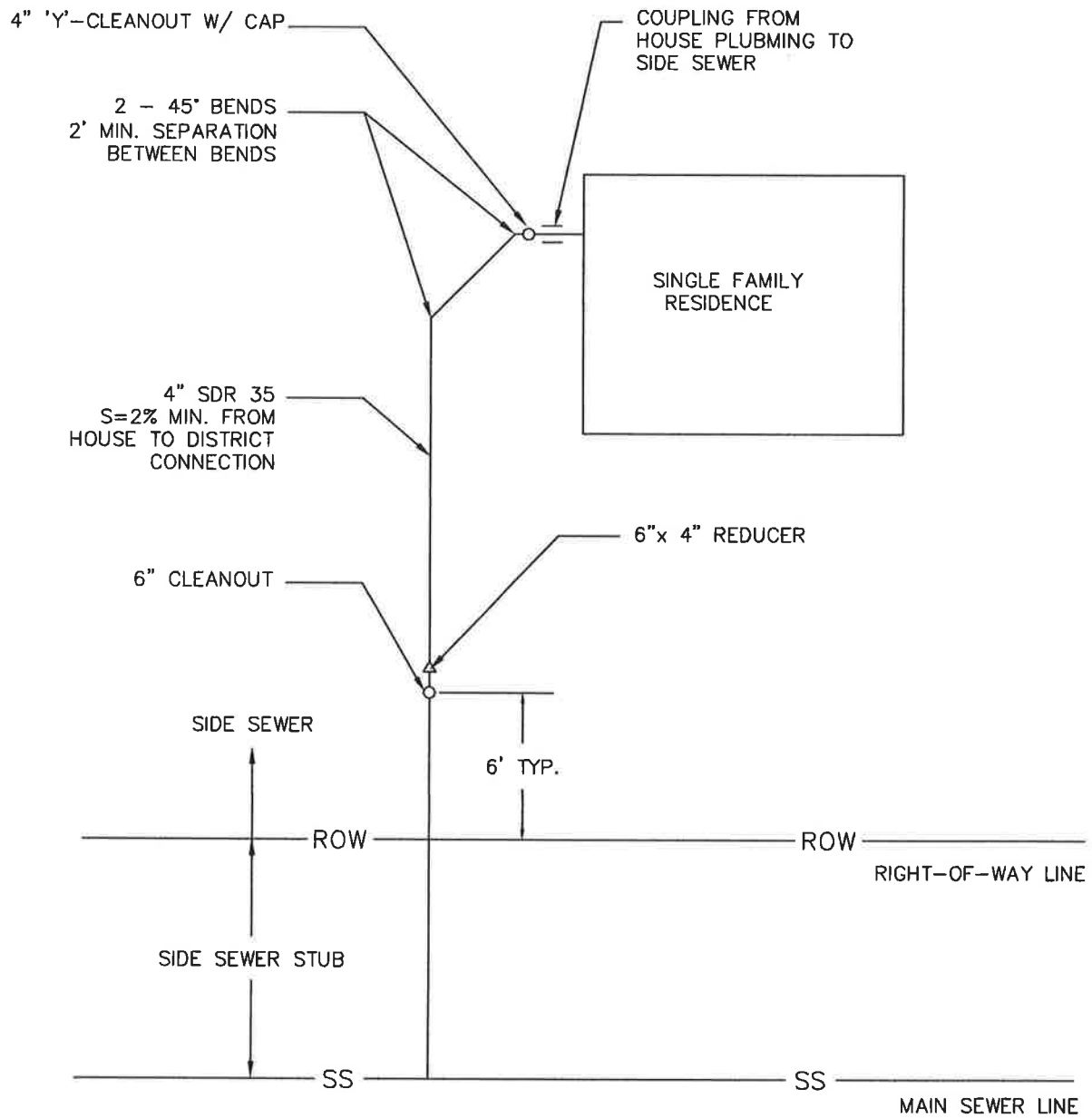
Materials such as grease, settable solids, roots, semi-cloth wipes, etc. introduced into the sewer system is prohibited. If any of these materials lodge in a private side sewer and break free creating a blockage in the stub or sewer main, the property owner will be liable for the cost of repair and the cost of any claims resulting from the back-up/blockage.

#### **SIDE SEWER DRAWING OF RECORD INFORMATION**

The District requires all new side sewers be inspected by the District at the time of installation. Side sewer drawings of record are kept for each account and can be provided for customer use, provided the District inspected the side sewer when it was installed.

#### **SIDE SEWER REPAIRS AND MODIFICATION**

Side sewer repairs or modifications, such as the installation of a cleanout, requires a Side Sewer Repair Permit be obtained from the District. All repairs or modifications must be inspected by the District; the property owner or their representative must contact the District 48-hours prior to the need for inspection (425-255-6370).

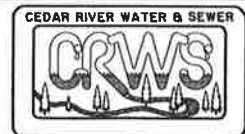


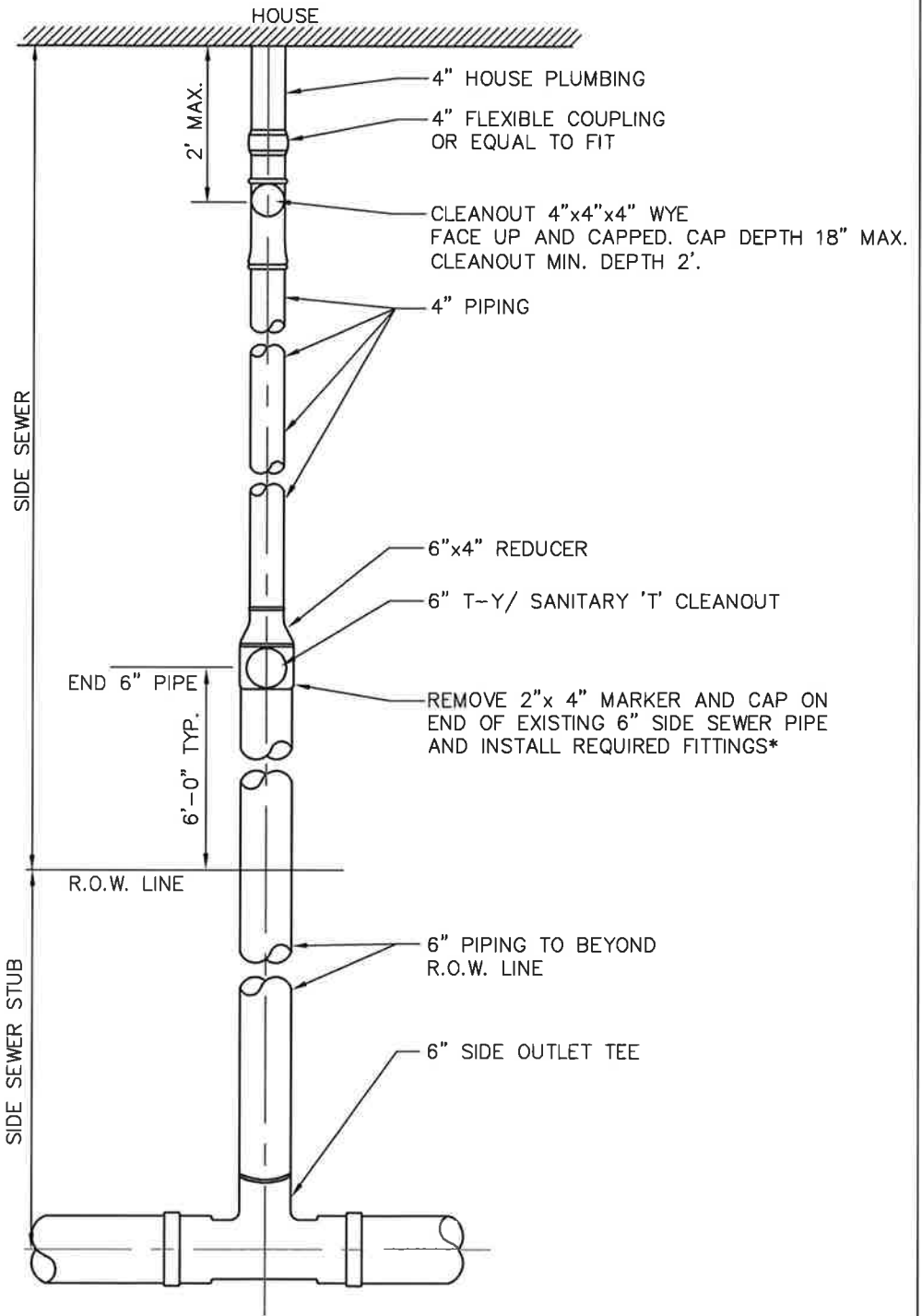
**PLAN VIEW**

N.T.S.



**HOUSE SEWER CONNECTION**  
Side Sewer Construction Standard Plan No. 1



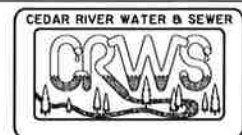


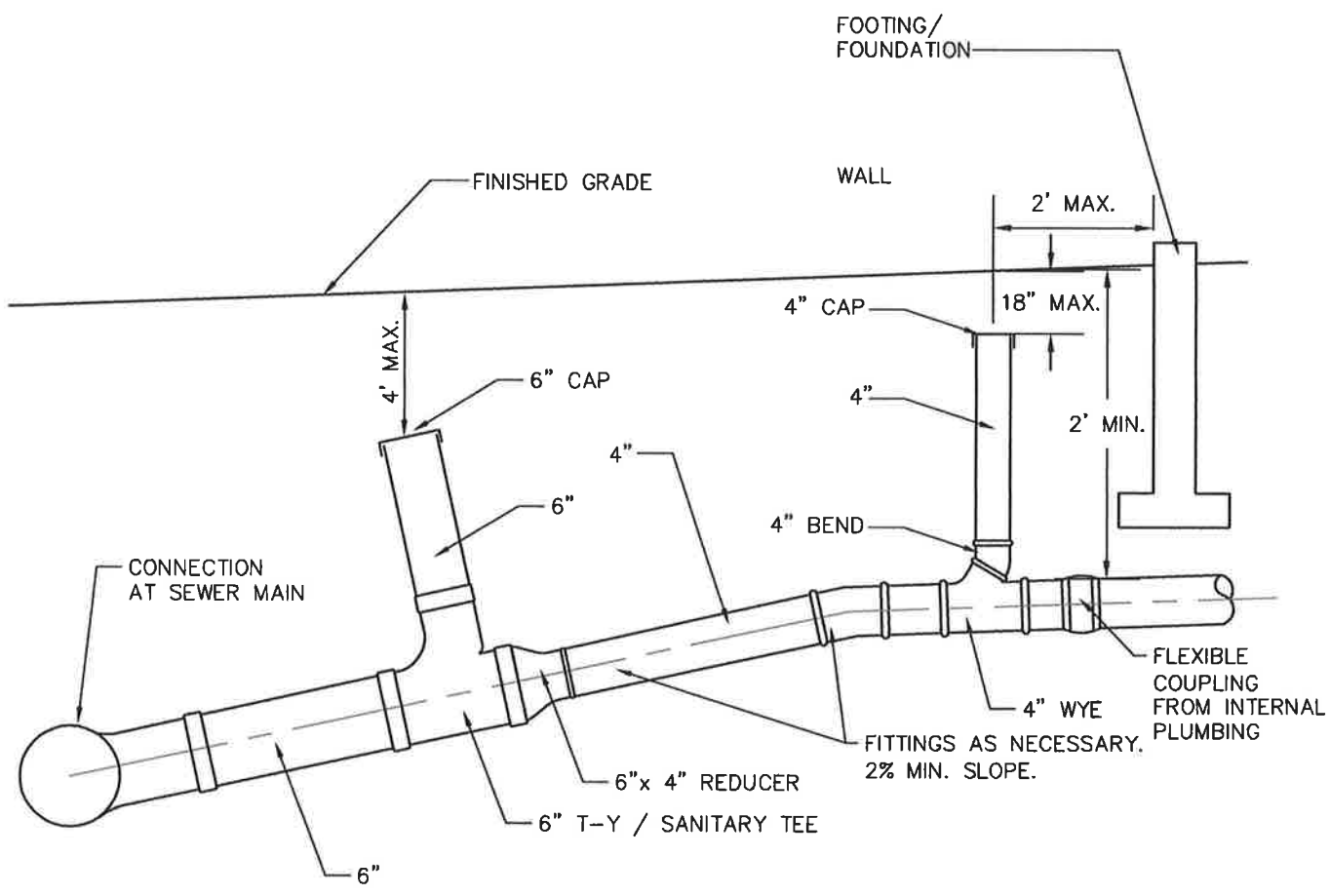
**PLAN VIEW**

N.T.S.



**SIDE SEWER PLAN**  
**Side Sewer Construction Standard Plan No. 2**



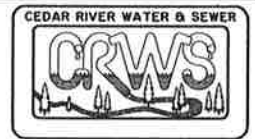


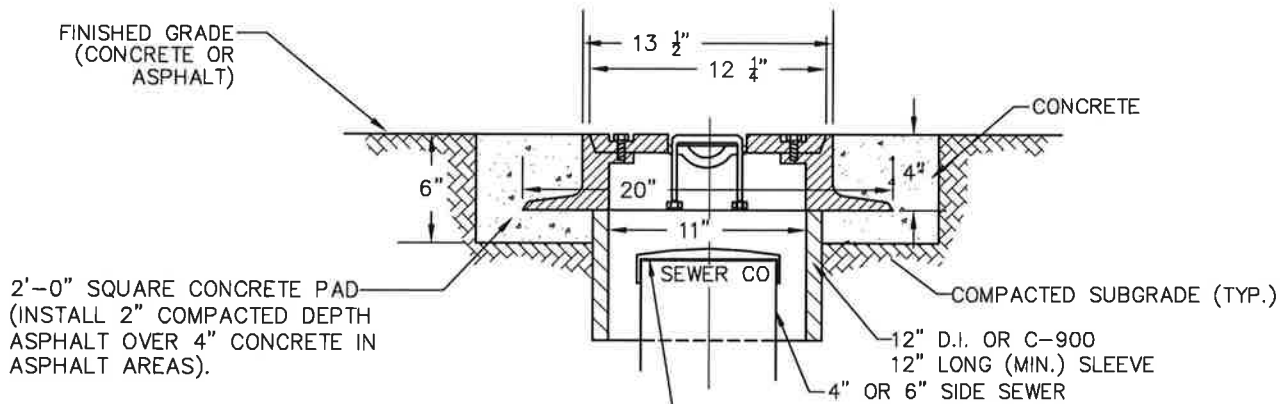
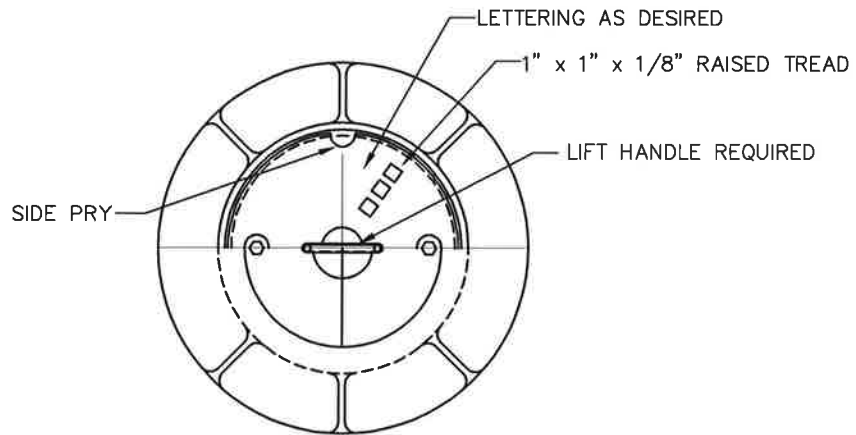
- NOTES:
1. SIDE SEWER BEDDING MIN. 4" BELOW PIPE TO MIN. 6' ABOVE PIPE USING 5/8" MINUS CRUSHED ROCK.

**CROSS SECTION VIEW**  
N.T.S.



**SIDE SEWER PLAN**  
Side Sewer Construction Standard Plan No. 3





**NOTES:**

1. LAMPHOLE COVER & FRAME TO BE PROVIDED FOR CLEANOUTS IN PAVED AREAS (RIGHTS-OF-WAY AND DRIVEWAYS), AND IN ALL COMMERCIAL INSTALLATIONS (INCLUDING MULTIFAMILY).

2. 11" x 4" LOCKING FLANGE DOWN FRAME & COVER (H20 RATING). PART NO. MH5D/T WITH 5/8" x 1/2" STAINLESS STEEL SOCKET HEAD CAP SCREW (2 PLCS)

3. MATERIAL: CAST IRON, ASTM A-48, CL 30

4. MACHINE SURFACE ON FRAME AND COVER

5. CONCRETE SHALL BE CLASS 3000

PVC GASKETED CAP OR SCREW-ON PLUG WITH 2" SQUARE OPERATING NUT. TOP OF CAP OR PLUG TO BE NO MORE THAN 2" BELOW LOOP HANDLE AND SHALL NOT TO INTERFERE WITH LID HANDLE OPERATION.



**CLEANOUT (LAMPHOLE)**  
**Side Sewer Construction Standard Plan No. 4**

