
SERVICE STANDARDS

Lakeside County
Water & Sewer
District

2022

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INTRODUCTION

Lakeside County Water & Sewer District assembled this information to assist its customers and their engineers and contractors in planning for and obtaining sewer services. The information presented here is intended to supplement the ordinances of the Lakeside County Water & Sewer District, Montana State Plumbing Code, and all other Federal or State codes, regulations, laws, and ordinances. It is the customer's responsibility to abide by these codes, regulations, laws and ordinances at the time of construction. If there is a conflict in this information and higher legal authority, then the higher authority shall take precedence.

This document has been prepared with the understanding that the latest edition of the Montana Public Works Standards Specifications shall be used as a minimum standard.

Approved by the Lakeside County Water & Sewer District Board of Directors as Ordinance No. 23, on 27th day of May 1997.

STATEMENT OF POLICY

It is expressly understood that this Service Standards document for the LAKESIDE COUNTY WATER AND SEWER DISTRICT does not constitute a contract of any kind. The District expressly retains all rights and responsibilities afforded them by law and district ordinances. Further, it is understood that this Service Standards document is issued to inform developers and other property owners regarding District policies for extension of water and sewer services into undeveloped territory. This Service Standards document may be changed from time to time and is issued as a general guide.

My signature below confirms that I have received a copy of the "Lakeside County Water & Sewer District Service Standards".

Date: _____ Signature: _____

Witness: _____

DISTRICT OVERVIEW AND GENERAL INFORMATION

The Lakeside County Water District and the Lakeside County Sewer District (LCWSD) consolidated in 1997 and was chartered by the Secretary of State of Montana. LCWSD currently operates three (3) water systems – Lakeside, Cherry View, and South Eighty.

The original Lakeside Water System was acquired in 1997 and consisted of a 200,000-gallon steel storage reservoir and two water wells. In 2017 the Lakeside Water System was combined with the Troutbeck Rise/Lakeside Estates/Spurwing Water Systems to increase storage and well capacity and backup power for the means of fire protection.

The original Troutbeck Rise Water System was privately owned until December 2002 when LCWSD assumed ownership and operation. About that same time the system was expanded to include the Lakeside Estates Subdivision. An old redwood water storage tank was replaced with a new 120,000-gallon steel tank. The system is served by two water wells located in Troutbeck Rise and Lakeside Estates, respectively. In 2006 the Spurwing Development was added to the system.

The Lakeside Water System now consists of five (5) wells and two (2) above-ground storage reservoirs. Groundwater is pumped to the reservoirs and then gravity fed to consumers.

The Cherry Hill and Mission View water systems were acquired in 2010 and 2011, respectively. On January 10, 2014, the two systems were combined to form the Cherry View Water System. This water system consists of one 176,000-gallon storage tank, four wells, a storage reservoir, and three pump houses.

In April 2015 LCWSD assumed ownership/operation of the South Eighty Water System that consisted of one (1) well and a pressure tank vault housing eight (8) tanks. A second well was drilled in 2016 and came on-line in 2018. The pressure tank vault was eliminated, and a new pump house and booster station were constructed. Two (2) new water mains were installed from the pump house to the upper zone to create three separate pressure zones.

In December 1988 the Lakeside County Sewer was placed into operation to serve the sewage disposal needs of the town of Lakeside and surrounding area residents. The primary objective of developing the system was to reduce public health hazards and nutrient loading into Flathead Lake. The Lakeside County Water & Sewer District (LCWSD) operates and maintains a wastewater collection system for the community of Lakeside, several lift stations, an aerated-lagoon treatment facility, a land application facility, and a seven-mile long force transmission main between Lakeside and the treatment site. The majority of the system was constructed in 1988. The District also provides treatment and land application of wastewater from the Somers collection system.

In 1997 the Lakeside County Water District and the Lakeside County Sewer District consolidated and was chartered by the Montana Secretary of State under the name Lakeside County Water & Sewer District (LCWSD). The LCWSD boundaries generally encompass the residential and commercial tracts within the Town of Lakeside, south of Lakeside along the shore of Flathead Lake for a distance out onto Conrad Point, and north along Flathead Lake to the northern boundary of the Mission View Terrace Subdivision. In addition, the LCWSD includes the Highway 93 right-of-way north to the junction of Highway 82 and Highway 93, plus a number of individual properties that have been annexed into the LCWSD since 1988.

APPLICABLE LAWS AND INDEMNIFICATION OF THE LCWSD

Contractors performing sewer system work in the LCWSD shall give all notices and comply with all federal, state, and local laws, ordinances, and regulations affecting the conduct of the work, and shall indemnify and hold harmless the LCWSD against any claim or liability arising from, or based on, the violation of any such law, ordinance, regulation, etc., whether by himself or his employees.

PERMITS AND ANNEXATION PETITIONS

Before any new connection is made to the LCWSD facilities, a *Permit* issued by the LCWSD office is required.

Requests for service to properties lying outside the boundaries of the LCWSD must also be accompanied by a *Petition for Annexation* before such requests are considered.

The Board of Directors must act on each *Petition for Annexation*, i.e., “out-of-district” service requests.

NEW SERVICE AREAS -- AGREEMENT FOR SEWER SERVICES

Available system capacity will always be a consideration when out-of-district parcels request sewer service. Also, in-district “over-density” service requests will trigger the same consideration.

Capacity for land within the bounds of the original District (1987) has been allocated on the basis of one equivalent user (average household/single family equivalency) per one-half acre on vacant land or one equivalent user on small buildable parcels already platted in 1987.

Therefore, large capacity service requests in or out of the District may require a *Service Agreement* between the LCWSD and the developer requesting service. The *Service Agreement* will define the terms and conditions necessary to secure a commitment for service.

CONTRACTOR BONDING

Three bonds will be required for contractors and/or developers performing main line extension work that will ultimately fall under the ownership of the LCWSD.

- Labor and Material Bond
- Performance Bond
- Warranty Bond

Labor and Material and Performance Bonds shall be 125% of the estimated construction cost.

Developers must provide LCWSD with lien release documentation from suppliers before service on the extended facilities commences.

WARRANTY BOND

A warranty bond shall be supplied to the LCWSD before service is allowed to any extended water or sewer main line or any installation to be owned by the LCWSD. The warranty bond shall be valid for

two years from the date the LCWSD takes over the operation of the installation. The bond amount shall be 35% of the actual or estimated cost of construction.

LIABILITY INSURANCE

During the construction period, contractors shall procure and maintain, at their own expense, General Public Liability and Property Damage Insurance including vehicle coverage issued to the contractor protecting him from all claims for personal injury, including death, and all claims for destruction or damage to property arising out of or in connection with any operations covered by the contract documents, whether such operations are conducted by himself or any subcontractor under him, or anyone directly or indirectly employed by the contractor or by a subcontractor under him.

Insurance shall be written with a limit of liability not less than \$750,000 for each claim and \$1,500,000 for each occurrence. Contractors shall hold harmless, indemnify, and defend the LCWSD and each of its agents and each of their officers and employees from any and all liability claims, losses, or damages arising or alleged to arise from performance of the work described herein, but not including the sole negligence of the LCWSD or its representatives. Each policy or certificate shall bear an endorsement or statement waiving the right of cancellation or reduction in coverage without ten (10) days written notice being delivered by certified mail to the LCWSD.

EASEMENTS

Properly recorded easements 20 feet wide shall be recorded by the developer with the Flathead County Clerk and Recorder in the name of the LCWSD for all extended main line facilities. Proof of such recorded easements shall be provided to the District before any construction can begin on the section of sewer line in need of the easement.

VARIANCES AND APPEALS

Should an application for service or any other problem arise in regard of the LCWSD's ordinances or these Service Standards, the applicant or affected party may appeal in writing within ten (10) days to the LCWSD Board of Directors and request a variance or appeal a decision by the manager.

The LCWSD Board of Directors shall review and make known their decision within thirty (30) days of receipt of the request.

DEVELOPER EXTENSION AGREEMENTS

If a developer or property owner bears the costs of extending services and utilities, a *Developer's Extension Agreement* for a specified period not to exceed 15 years may be signed between the developer or property owner and the LCWSD. The *Developer's Extension Agreement* shall set forth the parcels of property that could connect to the extended main without further main extension or connect to the lift station without further modification of the station or the force main and specify the amount to be assessed to each parcel.

The late-coming customer shall pay the extender a pro-rata share of the main and/or lift station and necessary appurtenance costs, including design and inspection fees. The pro-rata share may be based on area, frontage, or combination thereof, equivalent users, or other means agreeable between LCWSD and the extender that is fair and equitable to both parties and the future customer. The late-

coming customer shall pay the amount assessed to that particular parcel directly to an escrow account or other depository account agreed upon and recorded in the *Developer's Extension Agreement*. The late-coming customer shall furnish the LCWSD proof of such deposit or payment at the time of application for sewer service for the parcel to be served.

PRE-CONSTRUCTION CONFERENCE

Before commencement of line extension construction, a pre-construction conference will be conducted by the LCWSD and its engineer. Project ground rules will be disseminated and individual responsibilities established at this meeting.

ROAD PERMITS

A *Flathead County Road Permit* and/or *Encroachment Permit* or a *Montana State Highway Department Encroachment Permit* is required for all construction activity on or within the roadway right-of-way.

OTHER INFORMATION AVAILABLE AT THE LCWSD OFFICE

- District Ordinances
- Plumbing Code
- Construction Specifications
- Montana Code Annotated (Water and Sewer Districts)
- Table of Rates and Fees

POLICIES FOR EXTENSION OF SERVICES

The policies delineated hereunder are directed to implement the service extension plans and recommendations contained in the following services and by extension plans prepared for individual annexed territories. The policies are developed in four sections:

- *General Policies*
- *Policies for Services in Undeveloped Areas*
- *Policies for Services in Developed Areas*
- *Policies for Meeting Costs of Services*

GENERAL POLICIES

The following general policies shall be pursued for all properties proposed to be developed within or outside the boundaries of the LCWSD.

1. For all properties lying outside the boundaries of the LCWSD, petitions of annexation into the District or a waiver of the right to protest annexation must accompany all service permit applications.
2. For main line extensions and service area lift stations, LCWSD ownership of extended facilities is assumed at the end of a one-year warranty period following the completion of construction or the commencement of service, whichever is the latter.

3. For developments or subdivisions, a contract or *Service Agreement* may be required before commitment for service is obtained. *Service Agreements* define the terms and conditions of such commitment when system capacity availability issues are involved.
4. It will be the developer's or property owner's responsibility to construct or establish pump stations, sewer systems, and right-of-ways in accordance with the Extension of Services Plan, described herein, and LCWSD standards for design and construction, described in *Specifications for Lakeside, Montana Wastewater Treatment Facility, Conveyance, Treatment and Disposal Systems* (Morrison-Maierle, Inc., March 1987), or the equivalent thereof. Certain construction criteria are specified in the specifications included in this document.
5. The system shall be of adequate size and design to handle the requirements of the development. Where a development may create impacts requiring off-site improvements, such as at the treatment/disposal site and/or lift stations, the District may require the developer to wholly or partially bear the costs of such improvements. The same requirements apply to water system improvements, i.e., storage, supply, pressure.
6. The developer or builder will be responsible for installing a meter pit and pressure relief valve (PRV) when system pressures are at or exceed 85 psi.
7. All proposed extensions will require a written engineering report (see Exhibit B) along with appropriate fees to be delivered electronically to the District addressing the impacts on existing system components (see specifications).
8. Whenever a proposed development necessitates greater sewage capacity than the existing LCWSD lines can transmit, the developer or property owner shall, at their expense, construct facilities or additional lines to meet LCWSD standards and requirements. Any deviations shall be approved by the LCWSD Board of Directors and the District's Engineer.
9. The owner or owners of any undeveloped territory shall be responsible for the costs of preparing an extension of services plan.

EXTENSION OF SERVICE PROCESS

1. **Developer Requests Service** - plans for extension of services shall include a report describing all anticipated development in and around the area in question and any future service connections, as well as immediate needs. The report shall include a map or maps of the extended area and adjacent territory to show the following information:
 - present and proposed boundaries of the District;
 - present streets and other utilities and the proposed sewer and/or water line extension;
 - general land-use pattern in the area to be developed or annexed;
 - probable serving arrangement of future services connecting to the extended service line in question; and
 - wastewater flow capacity of the proposed extension.

2. **Plan Review** – LCWSD has contracted with an engineer to review all plans submitted for water and sewer main extensions, lift stations, wells, pressure systems, and related infrastructure (see Exhibit B – Plan Review Fee Worksheet).

To ensure compliance of these policies, all necessary engineering services related to any new replacement or remodel of the system components proposed to be owned and/or operated by LCWSD shall be reviewed by the District’s Engineer. All costs related to the research, survey, design, construction, inspection, preparation of ‘as-built’ drawings, certification, and installation of sewer facilities shall be borne by the developer or property owner(s). Costs incurred by LCWSD related to the project, such as engineering or legal professional fees and applicable review fees, shall be added to the normal plant investment fees and inspection fees assessed the developer as determined by the ordinances of the District (see Exhibit B – Plan Review Fee Worksheet).

Once the District Engineer has reviewed the plans, LCWSD will inform the developer of any recommended modifications. LCWSD will issue a will-serve letter after any and all changes are agreed to and implemented (assuming available capacity).

If capacity is not available, LCWSD will deny the request or give the developer the opportunity to pay for or participate in the improvements needed to accommodate the request.

3. **Approvals** – Developer will inform LCWSD when County approval is obtained. Developer agrees to annex the proposed service area into the District and completes the Annexation documents, if necessary.

The developer will then complete the LCWSD Service Agreement and pay the Plant Investment Fees.

4. **Project Closeout** - At the close out of any project that will be or is owned by LCWSD a close out document shall be prepared including but not limited to:

- field notes, copy of the inspector’s log;
- O & M manuals;
- certification of completion from design engineer;
- three (3) blueprint copies of the “as-built” drawings;
- one electronic copy of the “as-built” drawings in ACAD format;
- lien release from all suppliers;
- copies of all applicable bonds;
- copy of the contract between LCWSD and contractor;
- final walk through notes and items to complete;
- any other project-related information;
- copy of recorded easement; and
- transfer agreement.

POLICIES FOR SERVICE EXTENSION TO UNDEVELOPED AREAS (General Policy – Extension of Service Process Applies)

1. Each development shall be conceived as an integral part of the comprehensive services plan of the LCWSD. Therefore, any subdivision or development within the growth areas shall be designed and constructed in accordance with the LCWSD standards for design and construction.
2. Any subdivision or residential development proposed outside the LCWSD limits, but within the District's growth boundary, shall be reviewed and approved by the LCWSD Board of Directors and the District's Engineer. The LCWSD shall recommend to the Flathead County Health Department and the Montana State Department of Environmental Quality - Water Quality Division the standards and improvements to be provided in such subdivision, in accordance with the services plan included herein.
3. Where construction of a sewer system is being considered, the future drainage basin shall be established and main lines sized for potential development based on zoning or probable use of the area.
4. It will be the developer's or property owner's responsibility to construct sewer lines of adequate size to handle projected wastewater flows.
5. The developer or property owner shall provide for all required improvements, including right-of-ways and roadways, at their own cost.

POLICIES FOR SERVICES IN EXISTING DEVELOPED AREAS

1. In general, territories within the service or planning area with existing utilities and facilities shall be required to upgrade their improvements to conform with LCWSD standards for design and construction as a prerequisite to receiving new District services or any additional District services. The following policies shall apply to such situations.

Prior to making sewer services available to existing developed areas, the LCWSD may require a report describing the following:

- approximate year or period when the existing area was developed;
- location, size, and condition of existing sewer lines or system;
- condition and location of the existing sewer system including size, material, and grades of the sewer pipes, if any;
- size and location of existing right-of-ways and easements;
- type of surfacing condition and width of roadways;
- existing storm drainage into and out of the area; and
- existing system televised, at the owner's expense.

The report shall include the estimated cost to correct the deficiencies and improve the existing conditions to meet LCWSD standards. The report shall also include an estimated replacement cost of the physical plant that, after annexation, will be maintained and replaced by the LCWSD, together with the estimated life of each component based on District policy. The LCWSD may require such a report to be prepared by a professional engineer and reviewed by the District's Engineer. The cost of preparing the report shall be borne by the property owner(s).

2. If the property is to be annexed, the LCWSD *Ordinance of Annexation* shall specifically state the method, areas of responsibility, and time frame for bringing the existing conditions into compliance with the LCWSD standards for design and construction.
3. If LCWSD services are to be extended without annexation, the developer or property owner shall sign a waiver of right to protest future annexation and waiver to protest participation in the formation of any special improvement district that may be formed to improve the existing services, utilities, streets, and other such improvements.

POLICIES FOR MEETING COSTS OF SERVICES

1. For the purpose of setting aside adequate funds to replace components of the physical plant, as per the *Policies for Services In Existing Developed Areas* above, the following shall be considered as the estimated life of the various components:
 - Structures: 50 years
 - Pipelines: 50 years
 - Stationary equipment (motors, pumps, conveyors, blowers, etc.): 20 years

The amount to be set aside each year for replacement of the LCWSD utility system components shall be the cost of construction, if new, or the total estimated replacement cost divided by the number of years of estimated life remaining.

2. It shall be the developer's or property owner's financial responsibility to extend all utility lines from the existing LCWSD facilities to the affected property in accordance with service extension plans and the LCWSD standards for design and construction. It shall also be the responsibility of the developer or property owner to construct extended facilities to the boundaries of the affected property in such a manner that these can be extended into adjoining properties in the future without disturbing existing improvements or at a minimum provide easements in order to prevent obstruction of sewer access for said properties.
3. If the developer or property owner bears the cost of extending the services and utilities, a *Developer Extension Agreement* for a specified period, not to exceed 15 years may be signed between the developer or property owner and the LCWSD. The *Developer Extension Agreement* shall set forth the parcels of property that could connect to the extended main without further main extension or connect to the lift station without further modification of the station or the force main, and specify the amount to be assessed to each parcel.
4. The late-coming customer shall pay the extender a pro-rata share of the main and/or lift station and necessary appurtenance costs, including design and inspection fees. The pro-rata share may be based on area, frontage, or a combination thereof, equivalent users, or other means agreeable between LCWSD and the extender that is fair and equitable to both parties and the future customer. The late-coming customer shall pay the amount assessed to that particular parcel directly to an escrow account or other depository account agreed upon and recorded in the *Developer Extension Agreement*. The late-coming customer shall furnish the LCWSD proof of such deposit or payment at the time of application for sewer service for the parcel to be served.

5. If the LCWSD requires the customer or developer extending the sewer facility to install a larger size than required by LCWSD standards for that development, the LCWSD may pay the difference in cost between the larger line size requested by the LCWSD and the size of the line required by said standards.
6. The LCWSD reserves the right to further extend sewer mains installed by the preceding developer or property owner without paying compensation. The LCWSD also reserves the right to charge future sewer utility users beyond those areas outlined in the *Developer Extension Agreement*, if applicable, for their pro-rated share of the LCWSD cost for oversizing of the line. This in no way shall diminish the preceding developer or property owner's right to collect service line connection fees within the limits of a *Developer Extension Agreement*. Such pro-rated costs shall be based on the volume of flow contributed by the development for which the line was further extended, versus the volume of flow the oversized portion of the existing main could handle.
7. For properties outside the LCWSD limits, but desire LCWSD services, and provided these services are available to these properties, the monthly user's fee for use of LCWSD sewer shall be 125% of the fee for residents, until such time that the property is annexed into the LCSD.

These policies may be reviewed and revised by the LCWSD Board of Directors when deemed necessary.

ENCROACHMENT PERMIT REQUIREMENTS

THIS PERMIT IS GRANTED IF THE FOLLOWING CONDITIONS ARE MET.

1. Brush and trees are to be removed from the County road right-of-way on each side of the encroachment for a distance of _____ feet (full length of property) and a setback of _____ feet from the shoulder of the road. This will facilitate improved roadway maintenance and safety.
2. Utility installations (cable, piping, etc.) within the County right-of-way must be buried a minimum depth of 36 inches below the ground surface within the County right-of-way. Utilities buried parallel to the road should be placed within 5 feet of the right-of-way line. Utility lines buried perpendicular to the road should cross at a 90-degree angle to the road. This will reduce the possibility of damage to the utility installation during routine roadway maintenance.
3. Trenching / Plowing - non-shrink backfill material must be used to fill all trenches within the County right-of-way. Vibration and/or compaction may be required to fill voids in specific areas. This requirement will reduce the potential for future settlement of the trench backfill resulting in settled trenches across the roadway.
4. Gravel Roads - a 6-inch layer of compacted crushed gravel must overlay the non-shrink backfill and be graded even with the original road surface.
5. Paved Roads
 - a. Pavement must be saw-cut a minimum of 24 inches from each side of the trench prior to trenching. This will reduce the possibility of damage to the adjacent pavement during construction.

- b. Pavement must be replaced within 48 hours after the beginning of trenching. Replacement pavement shall consist of hot mix asphalt that matches the original pavement thickness or a minimum thickness of 3 inches, whichever is greater.
6. Pushing / Boring - push pit areas within 5 feet of the shoulder of the road must be filled with non-shrink backfill. The remainder of the push pit must be filled with select material and compacted in 6- to 8-inch lifts to 95 percent of maximum density at the optimum moisture content. This will reduce damage to relatively new or good paved roads and road shoulders due to settlement.

For the exemption of this requirement, proof of extenuating circumstances not allowing pushing must be provided to the County Road Department.

7. All areas within the County right-of-way disturbed during construction must be re-seeded within 14 days. A 4-inch layer of topsoil must be spread over all disturbed areas of the right-of-way prior to re-seeding. Re-seeding will reduce the potential for growth of noxious weeds on the County right-of-way, as well as the adjacent private property.
8. The County Road Department must be contacted to schedule a post-construction inspection.

TESTING AND INSPECTION REQUIREMENTS

EXTENDED FACILITIES ACCEPTANCE TESTING

Facility acceptance tests required by the LCWSD shall include but not be limited to air/water tests, deflection tests, and televised inspections.

TELEVISION INSPECTION REQUIREMENTS

The LCWSD reserves the right to request and inspect all underground utility systems by the use of a television camera prior to final acceptance. The LCWSD will perform the initial inspection at no cost to the contractor. Any deficiencies shall be corrected at the contractor's expense. The cost of any sewer line cleaning or additional television inspection shall be billed to the contractor. The video tape verification of the inspection shall be held by the LCWSD and shall be the sole property of the District.

CONSTRUCTION INSPECTION

All development work designed by an engineer shall be certified and inspected by that engineer for conformance to plans and specifications. It is the contractor's responsibility to notify the LCWSD of the work requiring inspection at least 24 hours in advance so the LCWSD may schedule such inspection.

All installed utilities to be owned and/or operated by the LCWSD shall be inspected by the design engineer and or district engineer for 100 percent of the time the contractor is on the project site. All cost for the inspection time of the design engineer and district engineer shall be the responsibility of the contractor or developer.

LCWSD NEW SERVICE PERMIT

253 Bierney Creek Road • Lakeside, MT 59922 • 406-844-3881
(For all new services or existing services changing use or volume discharge)

Date Applied For: _____ **Date Meter Picked Up:** _____ Account: _____

Applicants Name: _____ Tel. No. _____

Job Address: _____

Billing Address: _____

Property Owner if Different: _____

Type of Service: Single Family _____ Multiple Family _____ Commercial _____

Permits Required: Right of Way - Flathead County Road Dept. _____ **Annexation Required** _____
 Right of Way - Montana Dept. of Highways _____
 MT State Plumbing - (supplied) _____

REQUIRED ITEMS	YES	NO
Water Meter		
Backflow Preventer		
Developer Reimbursement		
Meter Pit with flow meter, check valve, and shut-off (with remote readout)		
Developer Agreement		
Meter Pit with PRV		

Type of Service: _____

	SEWER FEES	WATER FEES	
1. Water meter Size: _____			
2. Permit & Inspection Fee	\$ _____	\$ _____	
3. System Development Fee	\$ _____	\$ _____	
4. Late Comer Fee	\$ _____	\$ _____	
5. Developer Agreement	\$ _____	\$ _____	
6. Water Tap Parts/Supplies, Water Meter	\$ _____	\$ _____	
7. Watts PRV	\$ _____	\$ _____	
Total	\$ _____	\$ _____	Grand Total \$ _____

Payment Info.
 Date: _____
 Ck. #: _____
 Amt.: _____

Contractor's Name and Address _____

Contractor Insurance on File: Yes _____ No _____ Contractor Bond: Yes _____ No _____

LCWSD Main-Line inspection: Performed By: _____ Date: _____

Comments: _____

Installation Requirements: Individual **Sewer** connections shall utilize 4" SDR 35-SD Poly Vinyl Chloride pipe. Gasketed pipe is preferred. Minimum depth of bury is 18 inches. Completion of line connection is subject to mandatory inspection by LCWSD personnel during regular business hours, 8-5 Monday through Friday. **Provide sketch of service connection on back to show main line connection.** All permits are the responsibility of the applicant. Warranty of installation is property owner/contractor responsibility. Any person(s) performing water and sewer excavation must have proof of insurance on file at the LCWSD office. All **Water** services require a District standard meter pit arrangement with meter, backflow prevention device, and curb stop installed. These items are to be paid for by the customer and the ownership will be that of the District. Meter Pit is demarcation point. Abandoned or terminated services must be capped or plugged in an approved manner in order to prevent harm to the systems.

**LAKESIDE COUNTRY WATER & SEWER DISTRICT PERMIT
406-844-3881**

SKETCH OF CONNECTION

INSPECTION CHECK LIST:

1. Depth of Bury _____
2. Connection Integrity _____
3. Saddle & Tap Installation _____
4. **NO** Galvanized Materials _____
5. Proper bedding around main line _____

OFFICE CHECK LIST:

- | | |
|--------------------------|--|
| 1. ___ Permit Issued | 4. ___ Meter Size _____ / Multiplier _____ |
| 2. ___ Meter # _____ | 5. ___ Meter Reading _____ |
| 3. ___ Meter Brand _____ | 6. ___ Inspection Completed |

PETITION FOR ANNEXATION OF LAND TO LCWSD

_____ (is/are) the owner(s) of the following described real property:

Exact Legal Description as per Tax Statement: _____

Assessor No. _____

Pursuant to 7-13-2341(5), Montana Code Annotated, the undersigned hereby petitions the Board of Directors of the Lakeside County Water & Sewer District [LCWSD] to include the land described above, which land is contiguous to the current District. As the sole owner(s) of the above-described property, the undersigned further gives consent to the inclusion of such land in the LCWSD and agrees to pay for sewer services at such rates, times, and places as shall be determined by the LCWSD Board of Directors.

Dated: _____, 20__

CAPACITY: Annexation into the LCWSD for water and/or sewer service allows for service capacity based on the size of the water meter installed to measure consumption (3/4", 1", 2", etc.) and corresponding Volume Ratio Unit (VRU) or multiplier of minimum service size (3/4"=1, 1"-1.8; 1 1/2"=4, 2"=7.1 VRU's, etc.) VRU, Equivalent Dwelling Unit (EDU), and multiplier are used interchangeably within the ordinances of the District. Future increases in capacity requirements (more living units, commercial use, etc.) for property specified here is subject to all fees and assessments that may apply at the time of change of use. "Capacity" is of no pertinence when easements are annexed solely to establish contiguity between parcels.

State of Montana
County of Flathead

On this ___ day of _____, 20__, before me, a Notary Public for the State of Montana, personally appeared _____, known to me to be the person(s) whose name(s) (is/are) subscribed to the foregoing instrument as the Owner(s) of Record, and acknowledged to me that he/she/they executed the same.

In Witness Thereof, I have hereunto set my hand and affixed my Notarial Seal the day and year in this certificate last above given.

Notary Public for the State of Montana
Residing at _____
My Commission expires _____

LABOR AND MATERIAL PAYMENT BOND

**(This bond is issued simultaneously with Performance Bond
in favor of the Owner conditioned on the full and
faithful performance of the Contract)**

KNOW ALL MEN BY THESE PRESENTS: that _____

as Principal, hereinafter called Contractor, and, _____

as Surety, hereinafter called Surety, are held and firmly bound unto _____

as Oblige, hereinafter called Owner, in the amount of _____

_____ Dollars (\$_____),

for the payment whereof Contractor and Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS, Contractor has by written agreement dated _____20____, entered into a contract with Owner for _____

_____ in accordance with Drawings and Specifications prepared by _____, which contract is by reference made a part hereof, and is hereinafter referred to as the Contract.

NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION is such that, if Contractor shall promptly make payment to all claimants as hereinafter defined, for all labor and material used or reasonably required for use in the performance of the Contract, then this obligation shall be void; otherwise it shall remain in full force and effect, subject, however, to the following conditions:

1. A claimant is defined as one having a direct contract with the Contractor or with a Subcontractor of the Contractor for labor, material, or both, used or reasonably required for use in the performance of the Contract, labor and material being construed to include that part of water, gas, power, light, heat, oil, gasoline, telephone service or rental or equipment directly applicable to the Contract.

2. The above named Contractor and Surety hereby jointly and severally agree with the Owner that every claimant as herein defined, who has not been paid in full before the expiration of a period of ninety (90) days after the date on which the last of such claimant's work or labor was done or performed, or materials were furnished by such claimant, may sue on this bond for the use of such claimant, prosecute the suit to final judgment for such sum or sums as may be justly due claimant, and have execution thereon. The Owner shall not be liable for the payment of any costs or expenses of any such suit.

3. No suit or action shall be commenced thereunder by any claimant;

a) Unless claimant, other than one having a direct contract with the contractor, shall have given written notice to any two of the following: The contractor, owner, or surety above named, within ninety (90) days after such claimant did or performed the last of the work or labor, or furnished the last of the materials for which said claim is made, stating with substantial accuracy the amount claimed and the name of the party to whom the materials were furnished, or for whom the work or labor was done or performed. Such notice shall be served by mailing the same by registered mail or certified mail, postage prepaid, in an envelope addressed to the contractor, owner or surety, at any place where an office is regularly maintained for the transaction of business, or served in any manner in which legal process may be served in the state in which the aforesaid project is located, save that such service need not be made by a public officer.

b) After the expiration of one (1) year following the date on which contractor ceased work on said contract, it being understood, however, that if any limitation embodied in this bond is prohibited by any law controlling the construction hereof such limitation shall be deemed to be amended so as to be equal to the minimum period of limitation permitted by such law.

c) Other than in a state court of competent jurisdiction in and for the county or other political subdivision of the state in which the project, or any part thereof, is situated, or in the United States District Court for the district in which the project, or any part thereof, is situated, and not elsewhere.

4. The amount of this Bond shall be reduced by and to the extent of any payment or payments made in good faith thereunder, inclusive of the payment by surety of mechanics' liens that may be filed of record against said improvement, whether or not claim for the amount of such lien be presented under and against this Bond.

Contractor

(Seal)

Title

Surety

(Seal)

Title

(Resident Agent)

PROVIDED, FURTHER, that the said Surety, for value received, hereby stipulates and agrees that no change, extension of time, alteration, or addition to the terms of the contract or to work to be performed thereunder or the specifications accompanying the same shall in any wise affect its obligation on this Bond, and it does hereby waive notice of any such change, extension of time, alteration, or addition to the terms of the contract or to the work or to the specifications.

PROVIDED, FURTHER, that no final settlement between the Owner and the Contractor shall abridge the right of any beneficiary thereunder, whose claim may be unsatisfied.

IN WITNESS WHEREOF, this instrument is executed in ____ counterparts, each one of which shall be deemed an original, this ____ day of _____, 20__.

ATTEST:

(Principal) Secretary

By _____

(SEAL)

(Witness as to Principal)

(Address)

ATTEST:

(Surety) Secretary

By _____
(Attorney-in-Fact)

(SEAL)

Witness as to Surety

(Address)

NOTE: Date of Bond must not be prior to date of Contract. If Contractor is Partnership, all partners should execute Bond.

IMPORTANT: Surety companies executing Bonds must appear on the Treasury Department's most current list (Circular 570 as amended) and be authorized to transact business in the state where the project is located.

SERVICE AGREEMENT

(Example)

LAKESIDE COUNTY WATER & SEWER DISTRICT

This Agreement between the LAKESIDE COUNTY WATER & SEWER DISTRICT (LCWSD), hereinafter referred to as DISTRICT or LCWSD, and _____, hereinafter referred to as DEVELOPER or LANDOWNER;

WITNESSETH:

WHEREAS, the DEVELOPER desires sewer and/or water service from the DISTRICT and it is to the mutual benefit of the DISTRICT and the DEVELOPER to provide an extended sewer and/or water main to the residential property owned by the DEVELOPER and others generally described as the _____ Subdivision, located in Flathead County, near Lakeside, Montana. The purpose of this Agreement is to establish procedures for further planning, quote fees, and provide for a commitment to serve the proposed subdivision. The financial terms expressed in this Agreement are good through _____. After that date, the numbers expressed herein may be revised, as established by the LCWSD Board of Directors' action;

NOW, THEREFORE, in consideration of the mutual covenants herein contained, the parties to this Agreement do hereby agree as follows:

1. **SEWER AND/OR WATER MAIN EXTENSION:** DEVELOPER shall construct a sewer and/or water main extension to and within the subdivision mentioned herein. All new facilities destined for LCWSD ownership and ongoing maintenance shall be identified on all drawings and is described as the extended sewer and/or water main and all its appurtenances. New sewer and/or water district boundaries shall be identified on all maps. Extension of sewer and/or water must be to LCWSD specifications, with LCWSD engineer approval, prior to construction.
2. **COLLECTION SYSTEM:** DEVELOPER shall construct a collection system in the subdivision as defined under "*Initial Service Area*" below. Landowners shall, at their expense, install and maintain all sewer and/or water service lines from DISTRICT's main line to each building. Such installations by the DEVELOPER must meet the DISTRICT's ordinance specifications. All collection and service lines will be of a "conventional" sewer and/or water system unless otherwise approved by the District Manager.
3. **SERVICE:** The DISTRICT shall furnish sewer and/or water service to DEVELOPER subject to the limitations and agreements set forth below and subject to its rules, regulations, and policies for service now in force or as hereafter amended.
4. **FEES:** For permission to secure capacity for this subdivision, DEVELOPER must pay all District latecomers fees or system development fees, as set forth herein and as may be changed from time to time (see below), for Phase One of the proposed subdivision, to the DISTRICT according to the following schedule:

GENERAL REQUIREMENTS

1. **ANNEXATION REQUIRED:** All property served by the LCWSD system must be annexed into the DISTRICT. Annexation requests will be considered on the basis of system capacity availability.
2. **BILLING ENTITIES:** One billing entity will be established for each Equivalent User.
3. **HOLD HARMLESS:** The LANDOWNER agrees to hold the DISTRICT free and harmless from any and all liability regarding the LANDOWNER lines or regarding the LANDOWNER hooking to the DISTRICT's lines and will indemnify the DISTRICT for any damages caused to the DISTRICT or any of the DISTRICT's property or any third party who makes claims against the DISTRICT. This indemnification and hold harmless clause is intended to be broad in scope and all encompassing. This indemnification and hold harmless extends to the governing board of the DISTRICT, the DISTRICT's Manager or employees, as well as to the DISTRICT itself.
4. **AGREEMENT TO ENCUMBRANCE:** The LANDOWNER specifically agrees that this Agreement shall constitute an encumbrance on the land described above, and this encumbrance shall run with the land and be binding upon subsequent purchasers, assignees, heirs, or any other persons or entities coming into possession of the lands as described above during the term of this Agreement. The DISTRICT will record this Agreement with the Flathead County Clerk and Recorder, but failure of the DISTRICT to so record this Agreement with the Flathead County Clerk and Recorder shall not void the binding effect of this Agreement on subsequent purchasers or subsequent mortgagees. The LANDOWNER has the duty and burden of informing subsequent purchasers, heirs, assigns, mortgagees, or others obtaining an interest in the land of this Agreement.
5. **INGRESS AND EGRESS:** LANDOWNER grants permission to the DISTRICT to enter LANDOWNER's property to make reasonable inspections as the DISTRICT deems necessary and for purposes of repairs, maintenance, operation, replacement, removal, and inspection of DISTRICT lines and service lines. LANDOWNER further agrees that LANDOWNER will not build structures on or over any DISTRICT-owned lines and, in the event of any structure on or over said line, the DISTRICT will have the right to remove said structures at LANDOWNER's cost and the DISTRICT has no obligation to repair or replace said structures.
6. **DESIGN:** The DISTRICT shall have the authority to determine the location and design of any service line connected to its collection system. LANDOWNER shall not make any connection or extension on LANDOWNER's service line for the purpose of supplying sewer service to any other building or land. Each residence shall have its own sewer service line and separate connection to the sewer main.
7. **DEBT REPAYMENT:** In addition to the fees for use, the LANDOWNER may be required, through the Monthly User Fee as determined by the LCWSD Board, to make adjusted payments brought about by increased operation and maintenance costs and construction costs relative to system capacity needs. Parties requesting annexation into the DISTRICT agree that in the event revenues of the DISTRICT are inadequate to pay for operations, maintenance, and debt costs, the DISTRICT has the option to assess lands within the DISTRICT to meet those commitments.
8. **DEFAULTS:** In the event of non-payment or default in any term of this Agreement, the DISTRICT may terminate services or enforce payment or enforce DISTRICT rules and regulations using the appropriate court systems. The LANDOWNER specifically agrees that the DISTRICT may elect to

have any delinquent charges for sewer service collected as a tax against the real property described above, per MCA 7-13-2301.

9. **LITIGATION:** In the event legal proceedings are instituted to enforce payment or other provisions of this Agreement, the prevailing party shall be entitled to a reasonable attorney fee, as well as costs and disbursements.
10. **QUALITY OF SEWAGE:** Standards for the quality and content of normal residential wastewater are specified in the ordinances of the DISTRICT. Meeting those standards and ensuring effective effluent odor controls are the sole responsibility of the DEVELOPER or his successors.
11. **EASEMENTS:** Properly recorded easements, 20 feet wide shall be recorded by the DEVELOPER with the Flathead County Clerk and Recorder in the name of LCWSD for all extended main line facilities. Proof of such recorded easements shall be provided to the DISTRICT before wastewater flows begin.
12. **POLICY FOR EXTENSION OF SERVICES:** Nothing in this Agreement supersedes or nullifies any of the *"Policies For Extension Of Services"* or ordinances of the DISTRICT.
13. **WATER METER REQUIREMENT:** Each structure that connects to this extended system shall, at their expense, install a water meter with an external/remote reader that meets DISTRICT standards. The Developer or Builder shall install a meter pit with a pressure relief valve (PRV) when system pressures are at or exceed 85 PSI.
14. **WARRANTY PERIOD:** Responsibility for all maintenance, repairs, inflow and infiltration problems, and/or any other condition requiring corrective action will remain with the DEVELOPER for one (1) year from the time of the first service connection to the newly extended main line. Following a successful final inspection after the warranty period, LCWSD will assume ownership of the extended main line and all operations and maintenance responsibilities. Before final inspection is complete, DEVELOPER will provide DISTRICT with cost breakdown of main line installation.

DEFINITIONS

1. "Agreement" shall mean this extension agreement.
2. "Design Area" shall mean and include those parcels of land described herein and reflected on the maps and plans of the water and sewer service main line extensions.
3. "District Lines" will mean all existing main lines owned by the DISTRICT and any similar lines being extended by the DEVELOPER to be owned by the DISTRICT at the end of the warranty period.
4. "Equivalent Dwelling Unit" (EDU) equates to one average single-family residence or ¾" water meter.
5. "Expanded Capacity" shall mean 1) all out-of-district service requests and/or 2) in-district service requests exceeding allocated parcel capacity of one EDU per one half acre. NOTE: "Out-of-district" refers to all parcels located outside the current District boundaries.

6. "Extended Sewer Main" shall mean those sewer mains and appurtenances from the existing sewer mains located _____.
7. "Extended Water Main", similarly, shall mean the water mains serving this subdivision from the point of interface with existing DISTRICT mains.
8. "Impact Fee" is the portion of Plant Investment Fees required in order to secure requested sewer system capacity.
9. "Initial Cost" shall mean and include all costs related to the design, construction, and installation of the extended sewer mains.
10. "Initial Service Area" is described as _____

11. "Latecomer" shall mean any entity connecting directly to the extended water and sewer mains.
12. "Plant Investment Fee" is a variable fee (over time) intended to recover an EDU's pro-rata share of the capital cost for the construction and provisioning of the water and sewer systems. This fee is reviewed bi-annually by the DISTRICT Board of Directors for appropriate application.
13. "Sewage," "Effluent," and "Wastewater" are used interchangeably.
14. "Structure" shall mean buildings in which plumbing fixtures are installed and have drainage thereon.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement this ____ day of _____, 20__.

ATTESTED: _____ BY: _____
LAKESIDE COUNTY SEWER DISTRICT

ATTESTED: _____ BY: _____
DEVELOPER

DEVELOPER EXTENSION AGREEMENT

LAKESIDE COUNTY WATER & SEWER DISTRICT

This Agreement made and entered into this ____ day of _____, 20__, by and between the LAKESIDE COUNTY WATER & SEWER DISTRICT, hereinafter referred to as DISTRICT, and _____, hereinafter referred to as DEVELOPER.

WITNESSETH:

WHEREAS, it is to the mutual benefit of the DISTRICT and the DEVELOPER to provide an extended sewer main and an extended water main for property owned by the DEVELOPER described as _____, a subdivision located near Lakeside, Montana; and

WHEREAS, the parties to this Agreement desire to provide for the collection of the expenses and costs of the extended sewer main, the extended water main, and the storm sewer installation on the _____;

NOW, THEREFORE, in consideration of the mutual covenants herein contained, the parties to this Agreement do hereby agree as follows:

DEFINITIONS

1. "Agreement" shall mean this *Developer Extension Agreement*.
2. "Design Area" shall mean and include those parcels of land shown on Exhibits _____, attached hereto and incorporated herein by this reference.
3. "Extended Sewer Main" shall mean that sewer main and appurtenances extending from the existing sewer main located in _____, beginning at the _____.
4. "Gravity Service Area" shall mean the parcels of land that are to be served by the Extended Sewer Main, shown as Exhibit _____.
5. "Lift Service Area," as shown on Exhibit _____, shall mean the parcels of land that would contribute sewage to the Extended Sewer Main via a tentative lift station and force main. Said lift station and force main are not included in this Agreement.
6. "Extended Water Main" shall mean that water main and appurtenances extending from the existing water main located nearest _____, to the end of the new water extension as shown on Exhibit _____.
7. "Water Service Area" shall mean the parcels of land that are to be served by the Extended Water Main as shown on Exhibit _____.

8. "Latecomer" shall mean the entity connecting to the Extended Sewer and/or Water Mains, contributing sewage to the Extended Sewer Main, receiving water from the Extended Water Main, and/or who did not share in the initial cost of the Extended Sewer and/or Water Mains.
9. "Initial Cost" shall mean and include all costs related to the installation of the Extended Sewer and Water Main, which shall consist of the design and inspection fees and the construction costs.
10. "Entity" shall mean an owner's specific parcel of land shown on Exhibits _____, attached, and shall mean the owner of each dwelling unit.
11. "Escrow Agent" shall mean _____, whereto the Latecomer pays the stipulated fee and from which disbursement is made to the DEVELOPER.

PERIOD OF AGREEMENT

This Agreement shall be in effect for a period of 15 years after completion of the Extended Sewer Main and Water Main and installation of the storm sewer. The date of completion is hereby established as _____. Therefore, the termination date shall be _____. Upon the termination of this Agreement, the DEVELOPER shall not be entitled to any further latecomer fees.

During the period of the Agreement, the DISTRICT shall have the right to allow other entities outside the service areas, shown on Exhibits _____, to connect to the Extended Sewer Main and to the Extended Water Main without payment of any fee to the DEVELOPER.

INITIAL COST

The DEVELOPER shall pay an initial cost of constructing the Extended Sewer Main and the Extended Water Main. The initial cost is herein established as follows:

EXTENDED SEWER MAIN

Total Service Area: _____

Total Cost: _____

Cost Per Acre: _____

Gravity Service Area: _____

<u>Tract</u>	<u>Area In Acres</u>	<u>Established Fee</u>

SUBTOTAL - Gravity Service Area: _____

Lift Service Area: _____

<u>Tract</u>	<u>Area In Acres</u>	<u>Established Fee</u>
--------------	----------------------	------------------------

SUBTOTAL - Lift Service Area: _____

TOTAL: _____

EXTENDED WATER MAIN

Total Service Area: _____

Total Cost: _____

Cost Per Acre: _____

<u>Tract</u>	<u>Area In Acres</u>	<u>Established Fee</u>
--------------	----------------------	------------------------

TOTAL: _____

The above established fees shall be increased 13 percent on each 12-month anniversary date of this Agreement.

GUARANTEE AND MAINTENANCE

The DISTRICT shall maintain the acceptably constructed Extended Sewer Main. However, the DEVELOPER shall replace or repair any defect in material or workmanship for a period of one (1) year after the foregoing completion date.

DISTRICT FEES

The DISTRICT shall receive payment for establishing usage and connecting fees, in accordance with the DISTRICT rate schedule.

ESTABLISHING AN ESCROW AGENT

The DEVELOPER shall pay all costs in establishing and maintaining the escrow account.

LATECOMER'S FEE TO DEVELOPER

With the exception of Tracts _____, which are lots owned by the DEVELOPER and were the cause of the Extended Sewer Main and Extended Water

Main, the DISTRICT shall not issue any permits for connection to the Extended Sewer Main or the Extended Water Main, or any connection that will contribute to the Extended Sewer Main or receive water from the Extended Water Main, or any entity that shall contribute to the Storm Drain, or permits to allow any curb cuts to an entity, unless said entity presents a receipt evidencing payment of the fees required herein from the escrow agent to the DISTRICT at the time the entity makes application for a permit to connect, nor will the DISTRICT allow any properties in the Gravity Service Area, Lift Service Area, and/or Water Service Area to be connected without paying the latecomer's fee included herein. Latecomers that must extend the main lines beyond this subdivision, in the future, are not subject to the DEVELOPER reimbursement terms contained herein.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement the day and year first above written.

ATTESTED: _____ BY: _____
LAKESIDE COUNTY SEWER DISTRICT

ATTESTED: _____ BY: _____
DEVELOPER

PRE-CONSTRUCTION CONFERENCE

LAKESIDE COUNTY WATER & SEWER DISTRICT

DATE _____

TIME _____

LOCATION _____

1. ORGANIZATION REPRESENTATIVES

Phone No. Present

- | | | |
|---|-------|-------|
| A. Owner / Developer | _____ | _____ |
| B. Lakeside County Water & Sewer District | _____ | _____ |
| C. Project Manager | _____ | _____ |
| D. Principal Engineer | _____ | _____ |
| E. Project Engineer | _____ | _____ |
| F. Contractor | _____ | _____ |
| G. Contractor's Superintendent | _____ | _____ |
| H. Utility Contacts | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |

2. CONTRACT

- | | |
|----------------------------------|-------|
| A. Properly executed | _____ |
| B. Labor & Material Payment Bond | _____ |
| C. Performance Bond | _____ |
| D. Insurance | _____ |
| E. Contract Amount | _____ |
| F. Contract Time | _____ |
| G. Notice of Award | _____ |
| H. Notice to Proceed Date | _____ |
| I. Start Work Date | _____ |
| J. Completion Date | _____ |
| K. Liquidated Damages | _____ |
| L. Lien Releases: Performance | _____ |
| Supplies | _____ |

3. RESPONSIBILITIES OF PARTIES

A. CONTRACTOR

1. Construct project in accordance with contract documents.
2. Supervise all work crews and subcontractors.
3. Ensure safety of all workers on site in accordance with OSHA Regulations.
4. Notify all utility companies, in writing, and request locations of utilities prior to starting project work.

B. ENGINEER

1. Observe construction and provide quality assurance.
2. Interpret contract documents.
3. Advise owner on contract matters.
4. Review and certify monthly pay requests and any change orders.

C. LAKESIDE COUNTY WATER & SEWER DISTRICT

1. Observe construction and inspection.
2. Consult with project engineer.
3. Supervise testing requirements.
4. Provide warranty inspection and acceptance.

D. OWNER

1. Payment in accordance with contract documents.
2. Contract signatory and final decision on contractual matters.

E. COMMUNICATIONS

1. To and from contractor shall be through the engineer.

4. SUBMITTALS

A. CONSTRUCTION SCHEDULE

1. Typewritten memo or bar chart.
2. Review and update requirements in Supplemental General Conditions.

B. SHOP DRAWINGS

1. Master list with schedule.
2. Submitted by prime contractor only.
3. Operations and maintenance information.
4. To be submitted in copies of five (5).

C. LIST OF SUBCONTRACTORS

5. UTILITY LOCATIONS AND COORDINATION

6. EASEMENTS AND SITE ACCESS

7. TRAFFIC PLAN

- A. To be submitted by Contractor and reviewed by engineer.
- B. Coordination of essential services and notification procedure shall be the responsibility of the contractor (law enforcement; fire; ambulance; school bus; road reports).
- C. Truck routing.

8. MATERIAL DISPOSAL AND CLEAN-UP

- A. Disposal site(s) identified.
- B. Written permission of property owner provided to grantee.
- C. Daily clean-up.
- D. Wetlands cannot be filled on private or public property.

9. MATERIALS STORAGE

- A. Location.
- B. Written permission by owner.
- C. Secured.
- D. Prior to payment, conform to shop drawings and O&M information provided.

10. PERMITS

- A. Building (local and State may be required) _____
- B. Construction de-watering – WQ _____
- C. 310 Permit: County Conservation District _____
- D. 124 Permit: Fish, Wildlife & Parks _____

- E. Floodplain: local floodplain authority _____
- F. State blasting permit _____
- G. Road encroachment permit(s):
 - County _____
 - State _____
 - Private _____

10. PROGRESS MEETINGS AND REPORTS

- A. Project Engineer, Inspector, Contractor, Lakeside County Water & Sewer District, and Owner -- *Bi-monthly report by Engineer.*
- B. Schedule -- *Updated weekly.*

12. PAYMENT

- A. Monthly estimate preparation.
- B. Cut-off date: _____
- C. Invoices for materials in storage: *Documented with paid invoice.*
- D. Certified payrolls: *Submitted* _____ *to* _____
- E. Retainage: _____
- F. Lien releases from suppliers to Lakeside County Water & Sewer District.

13. PAYROLLS

- A. Wage Decision No.: _____
- B. Payrolls checked by: _____
- C. Subcontractor compliance is responsibility of prime Contractor.
- D. Superintendent and owner-operators shown on payroll.
- E. Certified by grantee at completion.
- F. Overtime provisions (overtime over 40 hours per week).

14. CHANGE ORDERS

- A. All contract change orders in writing.
- B. Cost breakdown, negotiation, and engineer's estimate (if no unit prices).
- C. Stop and start work in writing (recommend no-cost change order).

15. RECORD DRAWINGS (AS-BUILTS)

- A. Contractor's responsibility: *One copy delivered to* _____ *within* ____ *days of project completion.*
- B. Withhold final payment until received.
- C. Three (3) copies of drawings to Lakeside County Water & Sewer District.

16. STAKING

- A. Control stake-out: *Completed / To Be Completed.*
- B. Job stake-out: *Completed / To Be Completed.*

17. TESTING

- A. Payment: *Passing tests paid by Contractor.*
- B. Tests requiring Engineer's observation: *Compaction, Deflection, Air, Hydraulic, Television.*
- C. Re-test payment: *Paid by Contractor.*
- D. Laboratory/Company: _____
- E. Contractor to submit proctor test for all fill material.
- F. Final acceptance tests: *Pressure Test, Hydrostatic Test, Televised Inspection.*

18. SAFETY

- A. Trenching practices: *In accordance with OSHA.*
- B. Hard hats: *Required at all times on job site.*
- C. Weekend clean-up: *Close pits or properly sign.*
- D. Engineer to notify appropriate government agency of serious or frequent violations.

19. TEMPORARY SERVICES

- A. Field office with telephone.
- B. Toilets.
- C. Water.
- D. Electricity.

20. LOCAL CONDITIONS

- A. Work hours.
- B. Dust, noise, and burning.
- C. Public safety.

21. PROJECT SIGN _____

22. POSTINGS _____

23. OTHER ITEMS

Prepared by _____

**SPECIFICATIONS FOR SEWER AND WATER
LAKESIDE COUNTY WATER & SEWER DISTRICT**

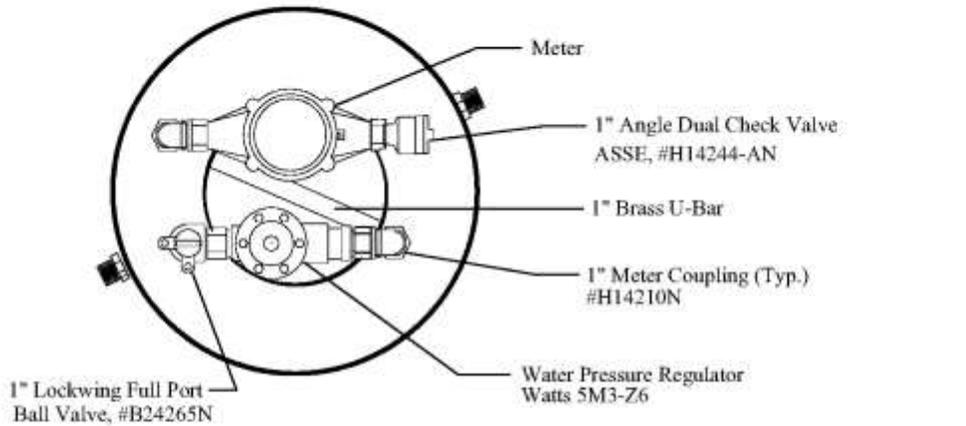
SEWER COMPONENTS

GRAVITY SEWER LINE	8" SDR 35 PVC (min.)
FORCEMAIN SEWER LINE	4" HDPE SDR 15 (min.)
SERVICE LINE (GRAVITY)	4" SDR 35 PVC (min.)
SMALL DIA. FORCEMAIN SERVICE	2" HDPE SDR 15 (min.)
FORCEMAIN TIE-IN SADDLE	Romac saddle style 202 N nylon w/ stainless steel straps or approved equal
FORCE MAIN TIE-IN VALVE	MULLER 300 ball corp valve or approved equal
SERVICE LINE (GRAVITY)	4" SDR 35 PVC (min.)
SMALL DIA. FORCEMAIN SERVICE	2" HDPE SDR 15 (min.)
GRAVITY SEWER TIE-IN	Romac CB Saddle Inserta Tee

WATER COMPONENTS

GATE VALVE	Mueller resilient wedge gate valve 12" and under, A2362
MUELLER METER PIT	Part #203CS1572FSBSN -3/4-inch Meter
COMPOSITE METER PIT LID	Part #311954 - 15"; Part #311955 - 18"
MUELLER METER PIT WITH COMPOSITE LID & PRV	Part #203CT1872FSAS000718N - 18" x 72" with coil, plumbed for 5/8" x 3/4" meter and 3/4" PRV with 5/8" x 3/4" meter threading and lay length (see illustration on next page)
WATTS PRV - 3/4"	WATTS - LF5M3-Z6
TAPPING VALVE	Mueller resilient seat tapping valve
TAPPING SADDLE	Power Seal Stainless Steel Model 3490AS

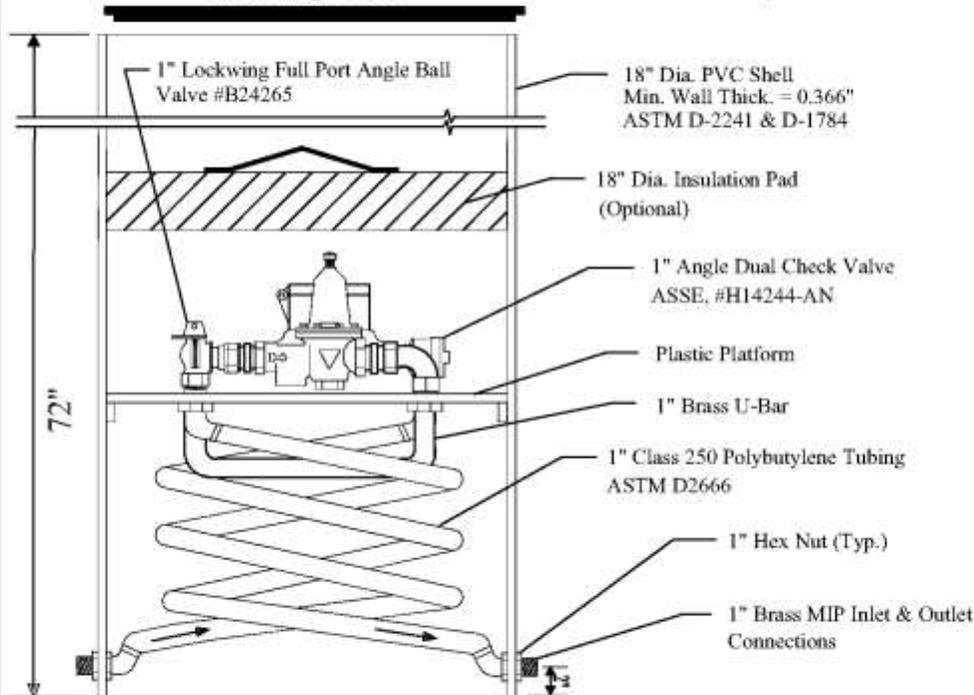
MUELLER 18-Inch Diameter Coil Tandem Meter Pit for 1-Inch Meter



18" Dia. Cast Iron Lid
Side Locking, #282925

NOTE:
Meter and Regulator not included.

330CT1872FSBS000044N.dwg



330CT1872FSBS000044N

VALVE BOXES	Tyler 6860 Series DD - screw type #6 Base for water		
CORPORATION STOPS	Mueller H-15026	3/4" & 1"	
	Mueller H-15008	3/4" & 1"	
	Mueller B-25008N	3/4" & 2"	CC x 110
	Mueller H-15013	1-1/2" & 2"	
	Mueller B-25000	3/4" & 1"	
	Mueller B-25005N	3/4" & 1"	cc x Insta
SERVICE SADDLES	Smith Blair Model 371 4" - 12" Smith Blair Model 372 4" - 12" Romac Model 304 (single bolt) - 2" - 12" Romac Model 306 (double bolt) - 2" - 12" Romac Model 305 - 10" - 32" Mueller Brass H13000 - C900 Only		
SERVICE PIPE	Main to Building 1. PE Pipe (IPS) SDR 7 - 3/4" & 1" 2. PE Tube (CTS) SDR 9 - 1-1/2" & 2" (200 PSI)		
CURB STOP	Mueller H-15209	3/4" - 2"	Cop x Cop
	Mueller B-25209N	3/4" - 2"	Cop x Cop
	Mueller H-15172	3/4" - 2"	Cop x FIP
	Mueller B-25172N	3/4" - 2"	Cop x FIP
	Mueller B-25204	3/4" - 2"	COP x Inst
	Mueller H-15213N	3/4" - 1"	Inst x Inst
	Mueller B-20283N	3/4" - 2"	FIT x FIT
	Mueller H-10314 w/stationary rod or Aym 5604		
	Mueller H-10334 or Aym 5606		
ADJUSTABLE RISERS	Tyler 64-A 7 65-B		
COUPLINGS	Solid sleeve - Ductile iron - Romac 501 or equal		
JOINT RESTRAINT	Megalug 2000 with thrust blocking		
FIRE HYDRANT	Mueller Super Centurion 200, 5-1/4", 3-way		
MANHOLE F/C	Inland Foundry Model 771 B = Ball valve H = Ora seal		

CONSTRUCTION SPECIFICATIONS

SANITARY SEWER SYSTEMS

Sanitary sewer systems shall be designed, constructed, and tested in accordance with the current editions of *the State of Montana Water Quality Standards, Construction Specifications - Lakeside County Water & Sewer District*, and *Montana Public Works Standard Specifications*.

In addition, the following shall apply to the design of all sanitary sewers.

Gravity Sewers

A written report shall assess the ability of the existing collection and conveyance system to handle the peak design flow from the project and the impact on the wastewater treatment site.

Sewage Lift Stations

A written report shall be submitted for any project that will create a new sewage lift station or will contribute to an existing sewage lift station. The report for a new sewage lift station shall contain, but not be limited to, the following:

1. description of the proposed wet well, pumping station, and force main;
2. capacity of the recommended pump and potential for upgrading;
3. map showing the potential lift station service area (service area beyond the initial installation);
4. average and peak design flows for the proposed project and potential service area;
5. hydraulic capacity of the force main;
6. reserve capacity of the lift station when the proposed project is on-line at full capacity;
7. pump run and cycle times for the average and peak design flows;
8. strategies for improvements that may be necessary to accommodate future sewer extensions, i.e., increased storage, pumping or auxiliary power capacity;
9. statement of the pump selection process including the engineer's calculations for the total dynamic head, total discharge head, net positive suction head, and other pertinent pump selection criteria; and
10. designed pump operating curve plotted on a manufacturer's pump performance chart with the designed operating point clearly identified.

The report for a project that will contribute to an existing sewage lift station shall contain, but not be limited to, the following:

1. description of the existing wet well, pumping station, and force main;
2. capacity of the existing pumps and potential for upgrading;
3. map showing the potential lift station service area;
4. list of the existing users and their average design flows;
5. existing peak design flow and reserve capacity;
6. pump run and cycle times for the existing average and peak design flows;
7. hydraulic capacity of the force main;
8. list of the proposed users and their average design flows;
9. proposed average and peak design flows to the lift station;

10. reserve capacity of the lift station with the proposed project on-line at full capacity;
11. pump run and cycle times for the proposed average and peak design flows; and
12. recommendations for improvements, if necessary, to enable the lift station to serve the proposed project.

Unless otherwise approved by the District's Engineer, the **pumping system** shall be of the above-ground, self-priming, suction lift type, capable of passing a three-inch solid. The pumps shall be manufactured by the Gorman Rupp Company or an approved equal. An emergency power supply will be required for all lift stations. The LCWSD reserves the right to accept or reject the proposed lift station, based on the finding from three different sources. The sources shall be from Montana, Idaho, or Wyoming.

An **alarm system** shall be provided that is capable of detecting power interruption, phase failure, high water, and high motor temperature conditions. The alarm signals shall be directed to an on-site alarm monitoring and telemetry system. The alarm monitoring and telemetry system shall be a Mission Communications Scada. An hour meter and discharge pressure gauge are required on each pump. Amperage meters need to be capable of reading each leg of the electrical wiring to the pumps.

Cathodic protection is required for all lift stations having a metallic exterior. The District's Engineer shall submit an analysis of the amount of cathodic protection required.

Excavation within the Public Right-of Way

Unless otherwise approved by the District Engineer, all excavated materials shall be immediately loaded into trucks, removed from the site, and disposed of by the contractor. Excavated materials shall not be stockpiled on site. Native materials shall not be used for backfilling unless approved by the District Engineer. Trench backfill within the public right-of-way shall provide uniform gradation mixture in accordance with the requirements of the current edition of the Montana Public Works Standard Specifications (MPWSS).

Minimum Pipe Size

The minimum diameter of any gravity sanitary sewer main shall be eight inches.

Sanitary Sewer Service Lines

Structures containing two or more residences and offices or businesses that are rental units under common ownership may have one service line for all occupants within a single structure, assuming building and plumbing code compliance.

Quality of Sewage

No development shall introduce any sewage into the LCWSD Sewer System that is not consistent with the requirements of the LCWSD Ordinances or as subsequently amended.

Pretreatment Requirements

Grease, oil, and sand interceptors shall be provided when, in the opinion of the District Manager, they are necessary for the proper handling of liquid wastes containing floatable grease in excessive amounts of any flammable wastes, sand, or other harmful ingredients. All interceptors shall be of a

type and capacity approved by the District Manager and shall be located as to be readily and easily accessible for cleaning and inspection. In maintaining these interceptors, the owner(s) shall be responsible for the proper removal and disposal by appropriate means of the captivated material and shall maintain records of the dates and means of disposal which are subject to review by the District Manager. Any removal and hauling of the collected materials not performed by owner's personnel must be performed by currently licensed waste disposal firms.

Pretreatment Requirements for Exterior Gravity Grease Interceptor

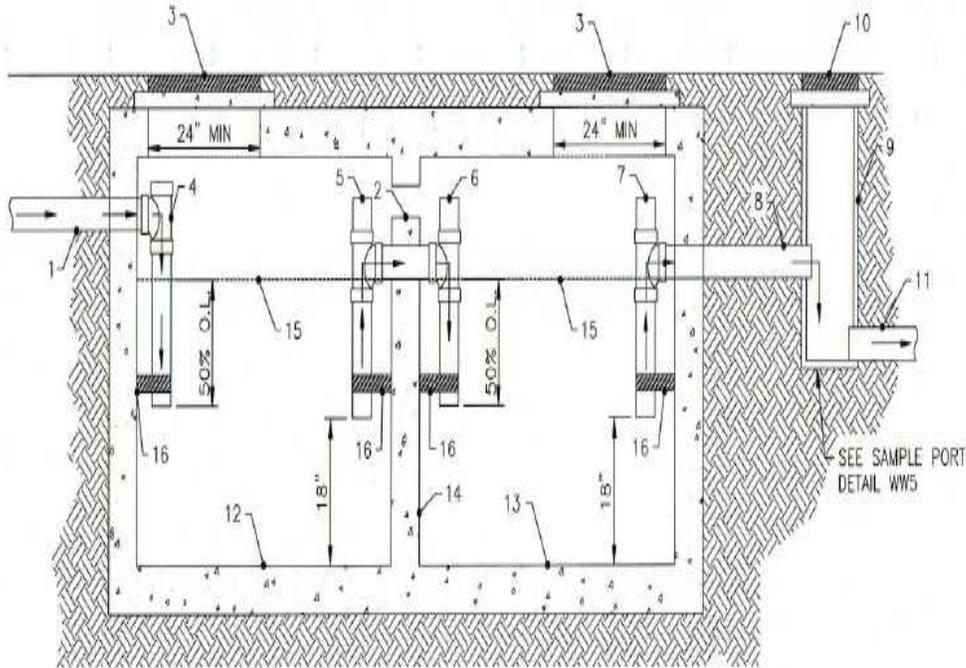
1. Food preparation sinks, dishwashing sinks, dishwashers, mop sinks, floor drains, and any other fixture or equipment that produces grease-laden waste shall discharge into the interceptor.
2. Sizing shall comply with current Uniform Plumbing Code requirements. (Minimum size allowed is 500 gallons.)
3. Design shall comply with "Pretreatment Standard Detail for Exterior Grease Interceptor and Sample Port Installation".
4. Exterior gravity grease interceptors shall be equipped with a sample port.
5. Exterior gravity grease interceptors shall be property vented.
6. Interceptor shall be located in an area easily accessible for inspection and cleaning.
7. Lids must be installed in a manner that allows for easy removal during inspection and cleaning.
8. Low temperature, sanitizing rinse, and/or mechanical dishwashers are recommended.
9. Water entering the interceptor shall not exceed 140°F.
10. Enzymes and drain maintenance chemicals are prohibited.

Applicability:

These requirements are applicable to all commercial food service establishments, including those that are undergoing:

1. New construction;
2. Interior remodeling to accommodate expansion or operational modifications;
3. Changes of ownership/occupancy; and/or
4. Facilities that are experiencing difficulty in achieving compliance with maintenance and/or wastewater discharge limitations.

Each business establishment for which an interceptor is required shall have an interceptor serving only that establishment. Common or shared interceptors are not permitted.



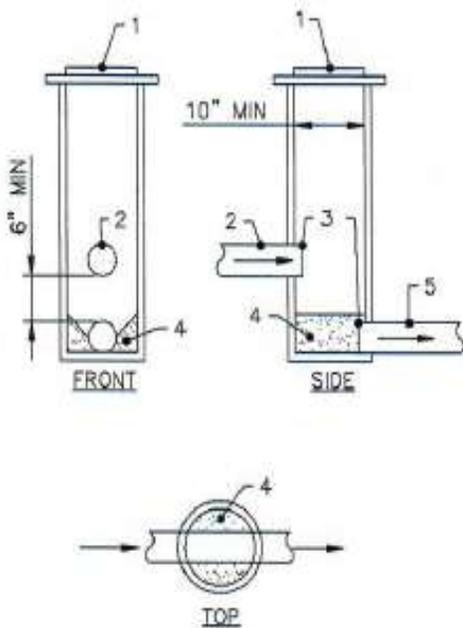
WW3 **TYPICAL EXTERIOR GREASE INTERCEPTOR**
N.T.S.

NOTES:

1. INFLUENT LINE
2. 6" DIAMETER VENT SLEEVE
3. MINIMUM 24" OPENING WITH RING AND LID
4. PRIMARY CHAMBER INLET PIPING (MUST EXTEND TO 50% OF THE OPERATING LEVEL)
5. PRIMARY CHAMBER OUTLET PIPING (MUST EXTEND TO 18" FROM BOTTOM OF CHAMBER)
6. SECONDARY CHAMBER INLET PIPING (MUST EXTEND TO 50% OF THE OPERATING LEVEL)
7. SECONDARY CHAMBER OUTLET PIPING (MUST EXTEND TO 18" FROM BOTTOM OF CHAMBER)
8. GREASE INTERCEPTOR DISCHARGE LINE
9. SAMPLE PORT
10. SAMPLE PORT RING AND LID
11. SAMPLE PORT DISCHARGE LINE TO CITY SEWER
12. PRIMARY CHAMBER (2/3 TOTAL VOLUME)
13. SECONDARY CHAMBER (1/3 TOTAL VOLUME)
14. BAFFLE
15. GREASE INTERCEPTOR OPERATING LEVEL
16. PIPE SUPPORT

Pretreatment Requirements for Sample Ports

1. All interceptors are to be installed with a sampling port that receives flow from the interceptor's effluent.
2. Tee piping on the interceptor's interior will not suffice as a sample port.
3. Sample ports must be located in areas protected from vehicle traffic
4. Sample ports are to be cleaned and inspected during routine interceptor pumping.
5. Sample ports will have a minimum 10-inch diameter access cover.
6. Sample ports will have a minimum 6-inch drop between inlet and discharge piping.
7. Sample ports must drain completely and not hold water. Bottom shall be grouted and sloped.
8. Inlet pipe penetration must extend 1 inch past the inside wall of the sample port. Penetrations are to be sealed to prevent leaks.



NOTES:

1. SAMPLE PORT RING AND LID
2. GREASE INTERCEPTOR DISCHARGE LINE
3. PIPE PENETRATION (EXTEND 1" PAST THE INSIDE WALL OF THE SAMPLE PORT – MUST BE SEALED TO PREVENT LEAKS. IF USING PVC, A SADDLE MUST BE USED)
4. GROUT (SLOPED TO WASTEWATER CHANNEL – THE SAMPLE PORT MUST DRAIN COMPLETELY AND NOT HOLD WATER)
5. SAMPLE PORT DISCHARGE LINE TO CITY'S SANITARY SEWER

WWS
SAMPLE PORT
N.T.S.

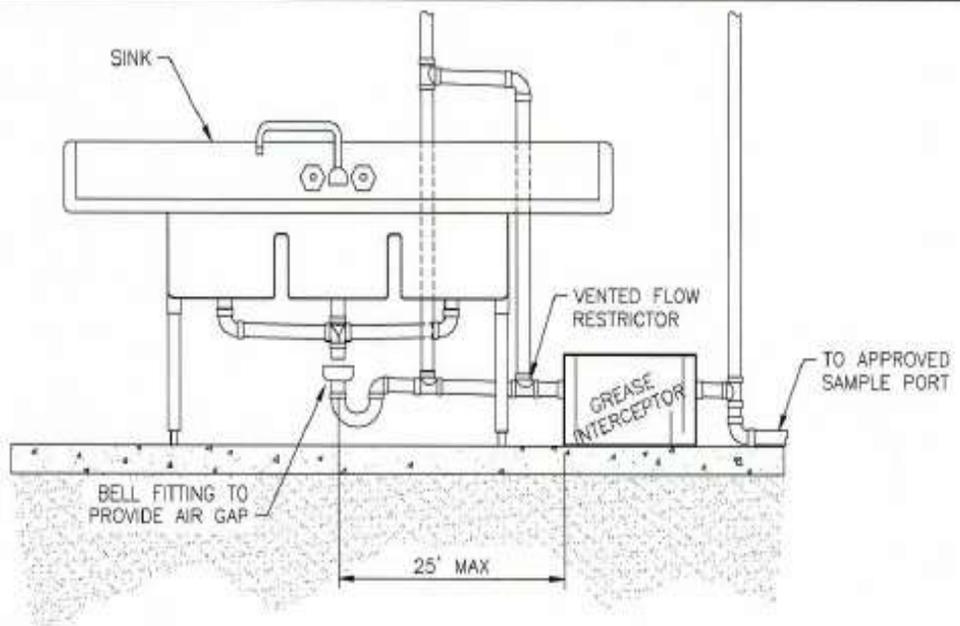
Pretreatment Requirements for Inside Hydromechanical Grease Interceptor

1. Sizing shall comply with current Uniform Plumbing Code requirements and utilize the formula that uses fixture capacities. (Minimum size allowed is 20 gpm.)
2. Design shall comply with "Pretreatment Standard Details for Inside Hydromechanical Grease Interceptors" cut sheet
3. Interceptor shall be properly vented and utilize a vented flow restrictor on the inlet line to the interceptor.
4. Interceptors shall have a sample port installed on the effluent line from the interceptor.
5. Interceptor to be located in an area that allows for easy cleaning and inspection.
6. Food preparation sinks, dishwashing sinks and floor drains shall discharge into the interceptor.
7. Water entering the interceptor shall not exceed 140°F.
8. Enzymes and drain maintenance chemicals are prohibited.

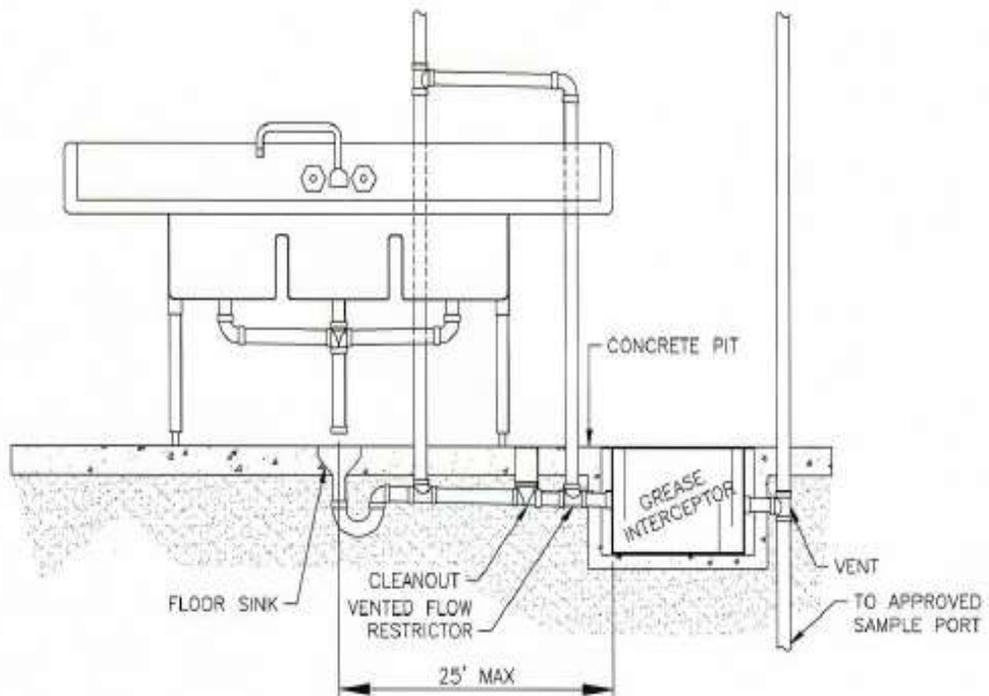
Applicability:

These requirements are applicable to all commercial food service establishments, including those that are undergoing:

5. New construction;
6. Interior remodeling to accommodate expansion or operational modifications;
7. Changes of ownership/occupancy; and/or
8. Facilities that are experiencing difficulty in achieving compliance with maintenance and/or wastewater discharge limitations.



WW1 **INTERIOR ABOVE GRADE GREASE INTERCEPTOR**
N.T.S.



WW2 **INTERIOR BELOW GRADE GREASE INTERCEPTOR**
N.T.S.

Schier Great Basin Series Interior Interceptor



External Sample Port Not Required
Internal Flow Restrictor

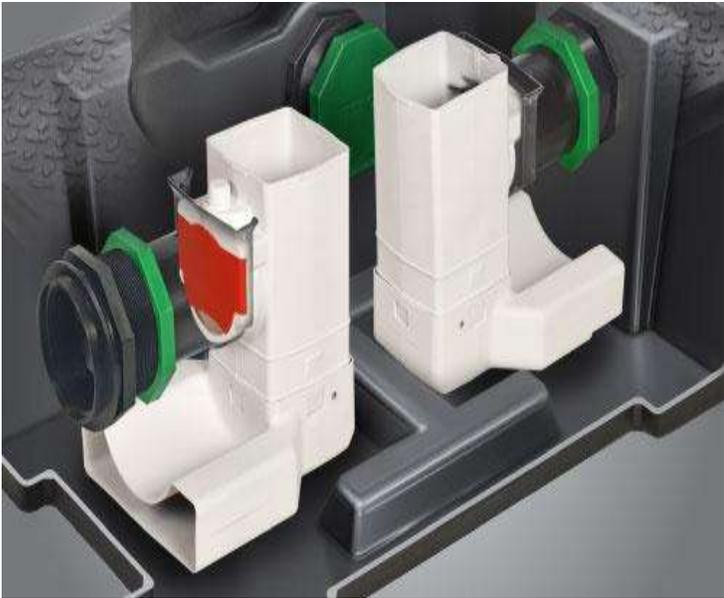


EXHIBIT A

TRANSFER AGREEMENT
(Example)

THIS AGREEMENT, made and entered into this ____ day of _____, 20____, by and between the **LAKESIDE COUNTY WATER & SEWER DISTRICT**, 253 Bierney Creek Rd., Lakeside, Montana, hereinafter referred to as the "**District**" and _____, hereinafter referred to as the "**Developer**".

WHEREAS, the District is a County Water & Sewer District certified by the Montana Secretary of State under Title 7, Montana Code Annotated (MCA); and,

WHEREAS, the District is staffed with System Operators, Montana State-certified for water and wastewater operations with certification maintained through annual training sessions required by the State; and,

WHEREAS, the District is willing to assume the ownership of said system assuming certain criteria can be met to the satisfaction of the District and to the benefit of the District customers; and,

WHEREAS, both parties are willing to enter into an Asset Transfer Agreement without an interim maintenance contract period, whereby the District could enjoy a period of discovery for unidentified items requiring correction before ownership changes. Both parties agree that a _____ warranty period will suffice in lieu of an interim maintenance contract; and,

WHEREAS, the Developer agrees to correct any known deficiencies, before the end of the warranty period; and,

WHEREAS, the water and wastewater system users are future or current "water" and or "sewer" customers of the District, and all water and sewer installation properties are located within the boundaries of the District.

NOW, THEREFORE, in consideration of the mutual covenants herein set out on the part of each of the parties kept and to be performed, it is agreed as follows:

A. Transfer of Water and Wastewater Collection System: The Developer for good and valuable consideration, transfers to the District, the Water and Wastewater Collection System more particularly described on Exhibit "A", attached hereto;

B. Assignment of Easements: The Developer hereby grants, transfers, and assigns all easements necessary for the repair, maintenance, and replacement of the various components of the wastewater collection system as identified on engineering drawings prepared by _____.

C. Appraisal of System: The District will conduct its own evaluation of the value and remaining life of the various water and wastewater system components. The current value is estimated at _____.

\$_____ for the Water and \$_____ for the Sewer System for the complete project total value of \$_____.

D. Warranty: The Developer warrants, for a period of one year, the entire water and wastewater collection system, more particularly set forth in Exhibit "A" attached hereto, for any and all repairs, maintenance, and replacement of the various components of the water and wastewater collection system and agrees to reimburse the District for any costs expended by the District for such repairs to the wastewater collection system during said warranty period.

E. Cost of Water and Wastewater Collection Service: There will be no change in "Water " or "Sewer" service charges from the District as a consequence of the ownership change.

F. Rules and Regulations of the District: Other than as provided herein, all rules, regulations, policies and procedures of the District will apply to the water and sewer users affected by this Agreement.

G. Disputes – Binding Arbitration: In the event of any disputes arising between the parties relative to any provisions of this Agreement, such dispute or disputes shall be subject to binding arbitration, pursuant to the Montana Uniform Arbitration Act, §27-5-111, MCA, et seq. Each party shall choose an arbitrator. The arbitrators so chosen will then choose an additional arbitrator. The three (3) arbitrators will then decide the matter or matters in dispute, and their decision will be binding on all parties hereto and enforceable by a Court of Law.

H. Binding Effect: This Agreement shall be binding upon each party's agents, agencies, political subdivisions, servants, representatives, employees, heirs, successors, personal representatives, and assigns.

I. Entire Agreement: The parties agree that no promise or inducement that is not herein expressed has been made to them; and that in executing this Agreement, they do not rely upon any statement or representation made by any person, firm, or corporation hereby released or by any agent, attorney, insurer, or other person representing the parties.

J. Contractual: The parties agree and acknowledge that the terms of this Agreement are contractual and not a mere recital.

K. Authority: The undersigned representatives represent and warrant that they, respectively, have the right and authority to execute the within Agreement and to legally bind said entities, that do so of their free act and deed; and that they, respectively, have not sold, assigned, transferred, conveyed or otherwise disposed of any claims or potential claims relating to any matter covered by this Agreement.

L. Construction: It is expressly acknowledged and understood by the parties that since each party has cooperated and assisted in the drafting and preparation of this Agreement, in any future construction of this Agreement, it shall not be construed against any party to it on the basis that the party was the drafter of this Agreement.

DATED this _____ day of _____, 20_____.

THE LAKESIDE COUNTY WATER & SEWER DISTRICT

By: _____
President

By: _____
Representative

Lakeside County Water and Sewer District
253 Bierney Creek Road
Lakeside, Montana 59922

STATE OF _____)

) ss.

County of _____)

On this _____ day of _____, 20____, before me, the undersigned, a Notary Public for the State of _____, personally appeared _____, known to me to be the person(s) whose name(s) are subscribed to the within instrument, and acknowledged to me that they executed the same.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed Notary Seal the day and year first above written.

Notary Public for the State of

(SEAL)

Residing at:

My Commission Expires: _____

EXHIBIT B -- PLAN REVIEW FEE WORKSHEET

Plan Review Fee Worksheet

Date Plans Received		Account Number		Project Number	
Invoice Number		Receipt Number		Check Number	
PWSID		Public Water Supply Name		Total fee Determined	
266		Lakeside County Water & Sewer District			
County		Nearest City	Review Engineer		
Flathead		Kalispell			
Project Name:					
Design Engineer Name ! Firm ! Address			Owner Name ! Address		
Name			Name		
Address			Address		
City			City		
Schedule I - DEQ 1 (WATER)			Schedule II - DEQ 2 (WASTEWATER)		
Section 1.0	Engineering Report	\$280	Chapter 10	Engineering Reports	\$280
Chapter 6	Pumping Facilities	\$1,500	Chapter 30	Design of Sewers	
Chapter 8	Transmission Mains, Distribution Systems, Piping and Appurtenances			Number of Lots	X \$70
	Number of lots	X \$70		Non-standard Specifications	\$420
	Non-standard Specifications	\$420		Collection System (lineal feet)	X \$0.50
	Transmission Distribution (lineal feet)	X \$0.50	Chapter 40	Wastewater Pumping Stations	
	Plans & Specifications Not Covered ---- hours	X \$150		Force Mains (lineal feet)	X \$0.50
	Re-Reviews	Hourly X \$150		Pumping Station Modifications to Existing	\$1,000
	Deviations from Services Standards (LCWSD)			Pumping Station New Station	\$1,500
	Number of Deviations	X \$200		Plans & Specifications Not Covered ---- hours	X \$150
				Re-Reviews	Hourly X \$150
				Deviations from Services Standards (LCWSD)	
				Number of Deviations	X \$200

Revised 4/25/2019

Notes:

1. Non-standard Specifications includes such items as pipe bursting, horizontal directional drilling, pipe ramming, auger bore and jack, etc. design reviews.
2. Plans and Specifications Not Covered for DEQ-1 (Water) included items such as Source Development (Chapter 4 of DEQ-1), Treatment (Chapter 4 of DEQ-1), Chemical Application (Chapter 5 of DEQ-1), Finished Water Storage (Chapter 7 of DEQ-1) and Waste Residuals (Chapter 9 of DEQ-1).
3. Plans and Specifications Not Covered for DEQ-2 (Sewer) included items such as Facility Plans (Chapter 10 of DEQ-2), Wastewater Treatment Facilities (Chapter 50 of DEQ-2), Screening, Grit Removal, and Flow Equalization (Chapter 60 of DEQ-2), Settling (Chapter 70 of DEQ-2), Sludge Processing, Storage and Disposal (Chapter 80 of DEQ-2), Biological Treatment (Chapter 90 of DEQ-2), Disinfection (Chapter 100 of DEQ-2), Supplemental Treatment Processes (Chapter 110 of DEQ-2), Irrigation and Rapid Infiltration Systems (Chapter 120 of DEQ-2), Alternate Sewer Collection Systems (Appendix C of DEQ-2), and Sewer Rehabilitation (Appendix D of DEQ-2).

FIGURE 2 -- STANDARD SEWER & WATER SERVICE CONNECTION

ALL SINGLE FAMILY BUILDINGS

ALL COMMERCIAL BUILDINGS

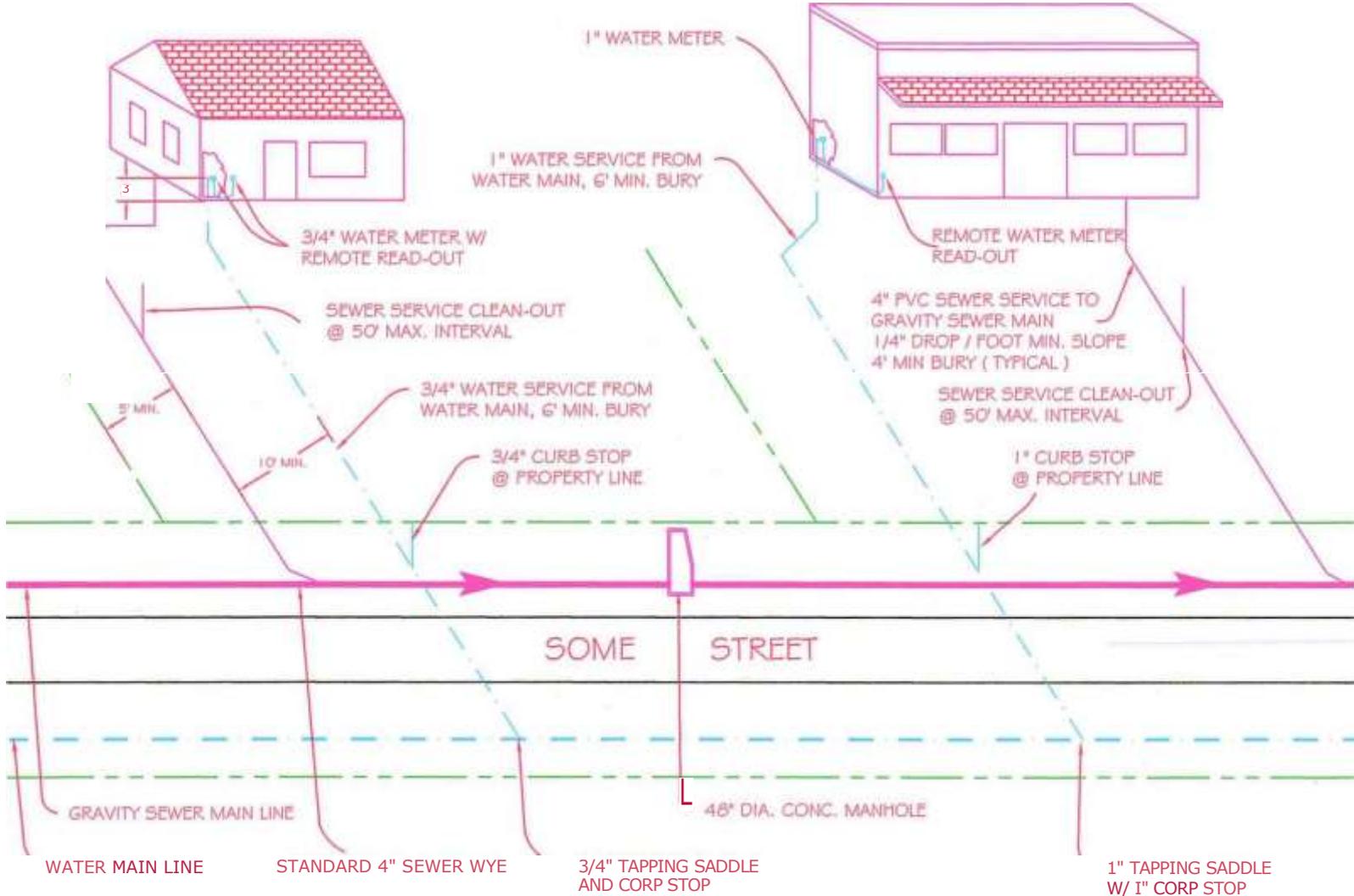


FIGURE 3 – ALTERNATIVE SERVICE CONNECTION DETAIL

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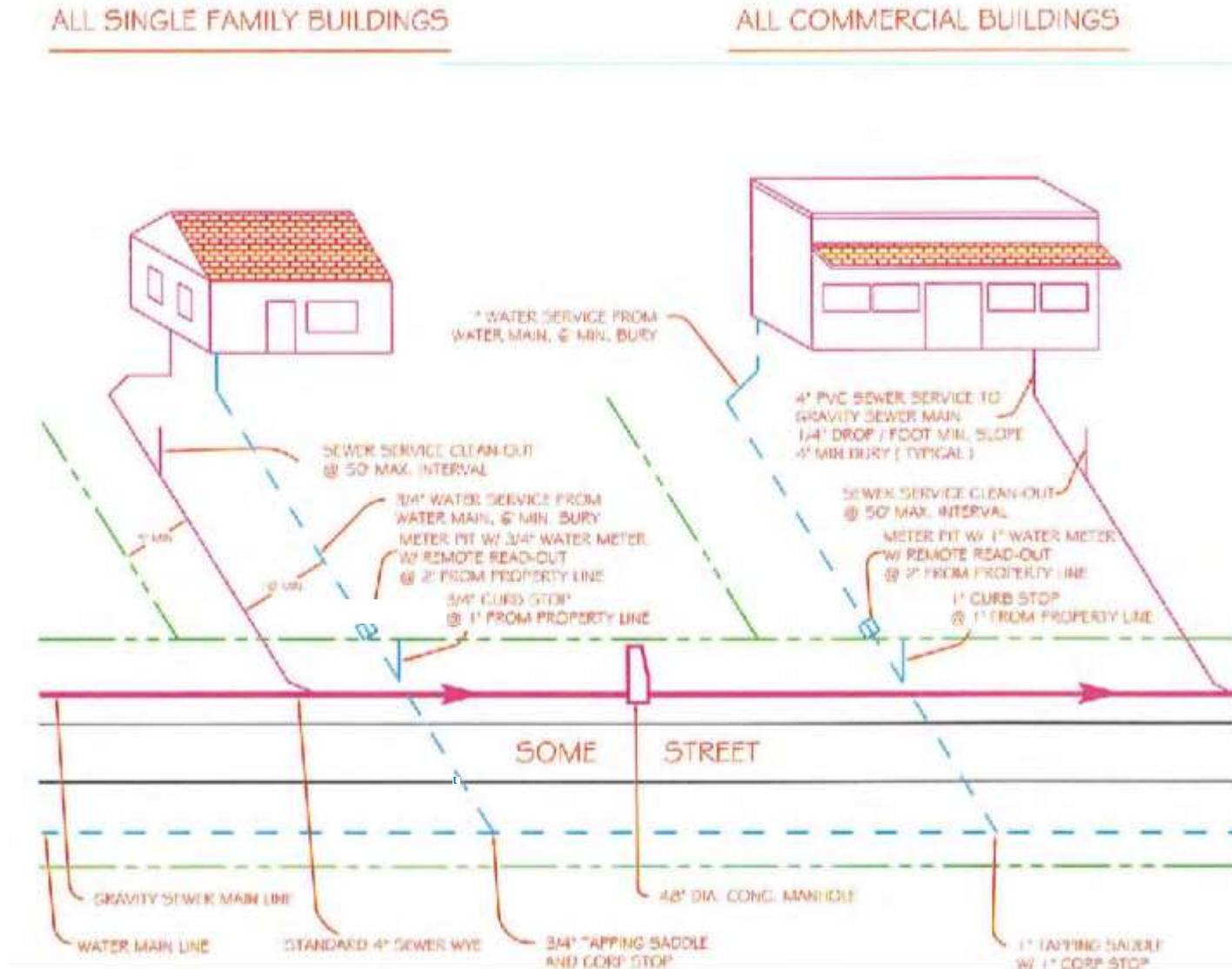


FIGURE 4 -- THRUST BLOCK LOCATIONS

CONCRETE THRUST BLOCK

CONCRETE THRUST BLOCK BEARING AREA REQUIRED

PIPE SIZE (INCHES)	DEAD END OR TEE (SQ. FT)	90 ELBOW (SQ. FT)	45 ELBOW (SQ. FT)	22- 1/2", 11 - 1/4" EV REDUCER SQ. FT.
4	1.9	2.7	1.5	1.0

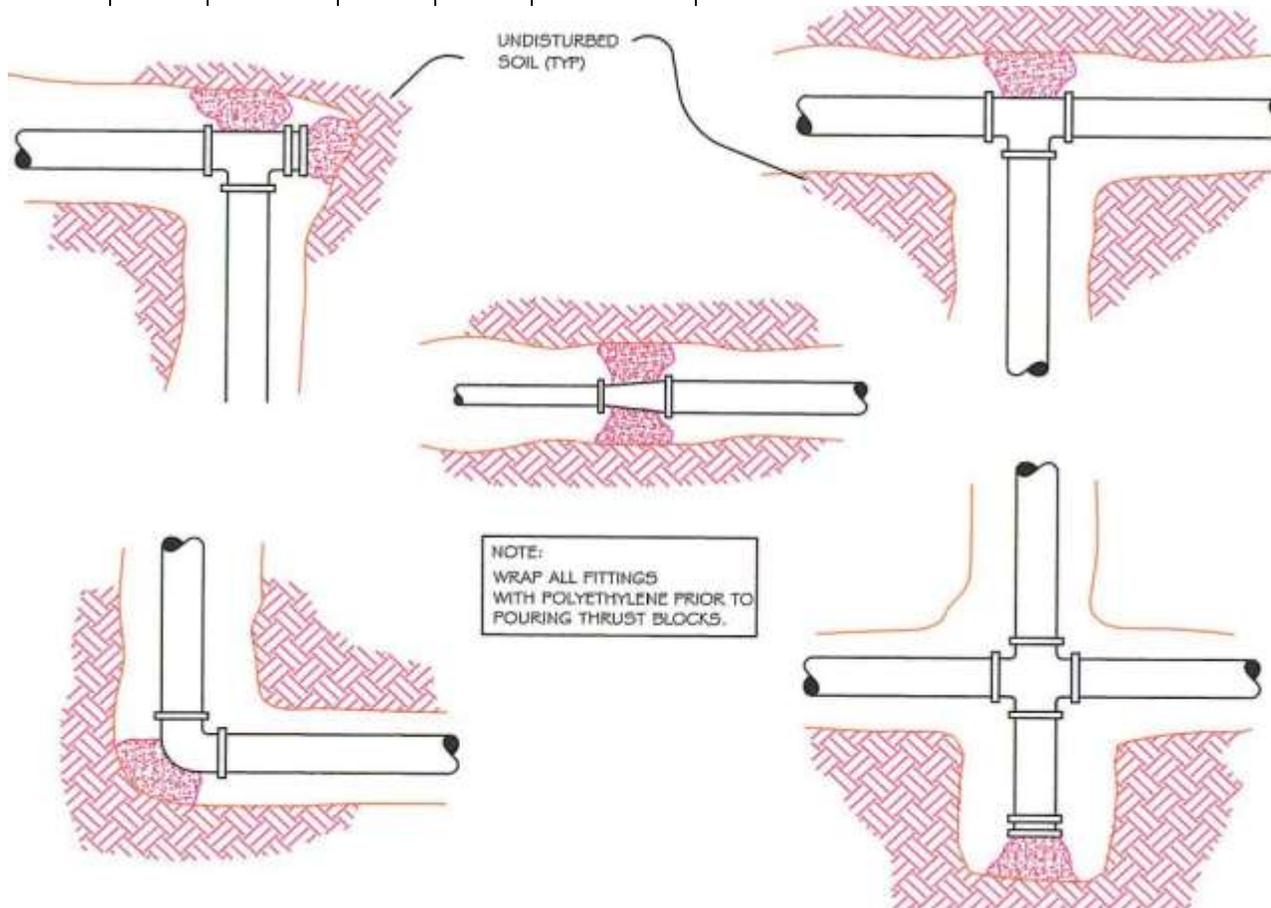


FIGURE 5 -- TYPICAL SEWER SERVICE AND CLEAN OUT DETAIL

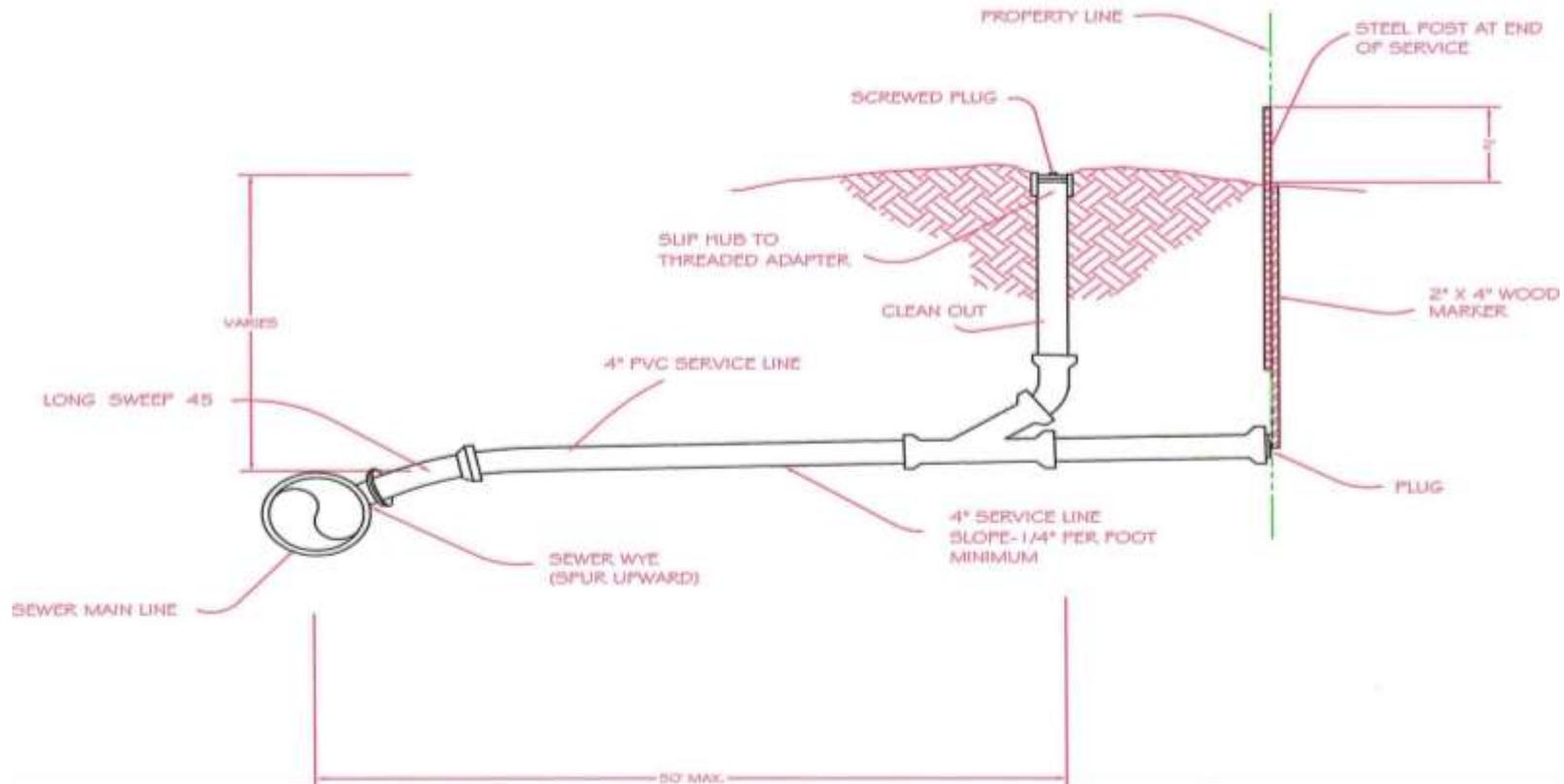


FIGURE 6 -- TYPICAL TRENCH AND ASPHALT PATCH DETAIL

