



2016 New Customer

Water & Sewer Permit Application Packet

Table of Contents

Connection Fee Components and Charges	2
Master Fees and Charges – ULID #18 Latecomer Fee	3
Customer Information Brochure	4
Application for Water/Sewer Permit	6
Grinder Pump Service Checklist.....	7
Water and Sewer Permit Checklist	8
Whatcom County Water and Sewer Availability	11
District Sewer-Only Will-Server Letter	12
Water & Sewer Service Construction Details	13
Bonded Side Sewer Contractor List	24

CONNECTION FEE COMPONENTS & CHARGES

Last Updated 12/21/2015

Item	Water	Sewer
General Facilities (5/8" x 3/4" Water Meter)	\$4,110.00	\$5,201.00
Service Installation	\$700.00	See footnote (1)
Permit Processing	\$40.00	\$40.00
Initial Inspection	\$25.00	\$75.00
Subtotal	\$4,875.00	\$5,316.00
Total (Water and Sewer)	\$10,191.00	

OTHER FEES OR CHARGES

Item	Water	Sewer	Expires
Agate Heights Water Latecomer's Class A Giesbrecht	\$9,860.38 ⁽⁴⁾		3/15/2017
Agate Heights Water Latecomer's Class B Evergreen View Ventures	\$2,129.12 ⁽⁵⁾		3/15/2017
Bergen Sewer		\$4,195.67	7/24/2018
Blaine Water Main Extension	\$10,910.00		8/25/2024
COB Reservoir Reimbursement Fee	\$300.00 ⁽²⁾		
Columbus St. Water Latecomer's Fee	\$528.50 ⁽³⁾		3/24/2018
Coronado Heights Phase 2 Water	\$1,627.58		3/14/2018
Edgewood Long Plat Sewer		\$4,102.00	2/24/2019
Lakewood/Grand Blvd Special Benefit Fee		\$6,000.00	
La Salle Sewer Extension		\$4,761.73	7/13/2021
Sewer Collection Special Benefit		\$6,000.00 ⁽⁸⁾	
South Geneva Class A Sewer		\$22,406.50	
South Geneva Class A Sewer Vault		\$1,704.55	7/22/2026
South Geneva Class A Water	\$17,088.97		7/22/2026
South Geneva Class B Water	\$5,981.14		7/22/2026
Sunny Cove Court Sewer		\$1,077.46	3/13/2016
ULID #18 Latecomer's Fee		See footnote ⁽⁹⁾	See footnote

- (1) An additional \$755.00 is charged for some lots in Sudden Valley where the District installed a sewer lateral from the sewer main to the property line.
- (2) Eagleridge Phase 1 water permits.
- (3) Geneva Columbus St. (Pennington) benefit area, see benefit area map (expires 2018).
- (4) Agate Heights Water System Class A within 200' of Agate Heights Waterline see latecomer's file for parcel number list (expires 2017).
- (5) Agate Heights Water System Class B within 200' of Agate Heights Waterline see latecomer's file for parcel number list – applies only if EVV develops (expires 2017).
- (8) \$6,000.00 in Special Benefit fees will be added to connection fees where the collector system has been extended to provide sewer service.
- (9) Latecomer Charge for Trunk Sewer Capacity. Sewer service for properties which are not subject to assessment as part of ULID No. 18 but which are within the south shore service area benefitting from the Lake Louise Road interceptor shall pay a latecomer charge in lieu of the ULID assessment, calculated in accordance with the ULID #18 Latecomer Fee table.

MASTER FEES AND CHARGES
SCHEDULE #23
Effective date November 10, 2015 (Resolution 820)

44. ULID #18 LATECOMER FEE				
Year	Equivalent to Assessment	Latecomer Penalty	Total	Reference
2003	\$2,792.78	\$265.31	\$3,058.09	Resolution 672
2004	\$2,792.78	\$530.63	\$3,323.41	
2005	\$2,792.78	\$795.94	\$3,588.72	
2006	\$2,792.78	\$1,061.26	\$3,854.04	
2007	\$2,792.78	\$1,326.57	\$4,119.35	
2008	\$2,792.78	\$1,591.88	\$4,384.66	
2009	\$2,792.78	\$1,857.20	\$4,649.98	
2010	\$2,792.78	\$2,122.51	\$4,915.29	
2011	\$2,792.78	\$2,387.83	\$5,180.61	
2012	\$2,792.78	\$2,653.14	\$5,445.92	
2013	\$2,792.78	\$2,918.46	\$5,711.24	
2014	\$2,792.78	\$3,183.77	\$5,976.55	
2015	\$2,792.78	\$3,449.08	\$6,241.86	
2016	\$2,792.78	\$3,714.40	\$6,507.18	
2017	\$2,792.78	\$3,979.71	\$6,772.49	
2018	\$2,792.78	\$4,245.03	\$7,037.81	
2019	\$2,792.78	\$4,510.34	\$7,303.12	
2020	\$2,792.78	\$4,775.65	\$7,568.43	
2021	\$2,792.78	\$5,040.97	\$7,833.75	
2022	\$2,792.78	\$5,306.28	\$8,099.06	
NOTE: As described in Resolution 672, ULID #18 Latecomer Charges were created to put parcels not assessed on the same footing as those that were assessed for the ULID. Assessed parcels could, and many did, prepay their assessments. To provide the same opportunity for non-assesed parcels, prepayment of ULID 18 Latecomer Charges will also be accepted. Therefore, paid in full ULID Latecomer Charges satisfy the ULID Latecomer Charges permanently.				

ABOUT LAKE WHATCOM WATER & SEWER DISTRICT

Lake Whatcom Water and Sewer District (Formerly Water District No. 10) was formed in 1968 and provides water and sewer services to approximately 4,000 residential customers in the area encompassing Lake Whatcom. Residents of the City of Bellingham, Lake Whatcom Water and Sewer District, and many lakeside homeowners use Lake Whatcom for drinking water.

Lake Whatcom Water and Sewer District operates a water treatment plant that provides water to Sudden Valley and Geneva residents. The District also distributes water purchased from the City of Bellingham to its Eagle Ridge customers. All water distributed by Lake Whatcom Water and Sewer District meets or surpasses EPA Safe Drinking Water standards.

Sewage from the District is collected and pumped to the Bellingham secondary wastewater treatment plant at Post Point for treatment. The District does not treat its own sewage.

Lake Whatcom Water and Sewer is operated by 18 staff persons and a five member Board of Commissioners.

DON'T FLUSH IT!

Some things should not be flushed down toilets or dumped down sink drains because they can clog or damage your pipes and the District's sewer system. Kitchen grease and oil, clay cat litter, feminine hygiene products, contraceptives, dental floss, candle wax and ground eggshells can all clog your pipes and cause problems further down the line.

When clogs occur, District field crews have to manually clean the sewer lines and/or pump stations, so razors and needles that end up in the sewer system can become a health hazard to them.

Petroleum products, solvents, oil based paint, and paint thinners can cause serious damage to pump station mechanics and should never be flushed or poured into the sewer.

BOARD OF COMMISSIONERS MEETINGS

Lake Whatcom Water and Sewer District has three service areas: Geneva, Sudden Valley and the North Shore of Lake Whatcom. The service areas are divided into five commissioner districts, each represented by a resident elected from that district to serve on the Board of Commissioners. Currently serving as Commissioners are:

Commissioner District	Commissioner
Position 1 Sudden Valley Home Phone 733-6525	Laura Weide laura.weide@lwvsd.org
Position 2 Geneva Home Phone 734-3453	Todd Citron todd.citron@lwvsd.org
Position 3 North Shore Home Phone	Bruce R. Ford bruce.ford@lwvsd.org
Position 4 Sudden Valley Home Phone (408)316-3025	Curtis J. Casey curtis.casey@lwvsd.org
Position 5 Geneva Home Phone 933-4249	John Millar ian.millar@lwvsd.org

The Board of Commissioners meets regularly on the second and last Wednesdays of each month. The first regular meeting of the month usually begins at 6:30 p.m. and the second regular meeting of the month begins at 8:00 a.m. Meetings are held in the conference room at the District's office located at 1220 Lakeway Drive. All regular meetings are open to the public. You are encouraged to attend the meetings and share your views with the District's Commissioners. Please call ahead to confirm specific meeting dates and times.

LAKE WHATCOM WATER & SEWER DISTRICT



Customer Information

Lake Whatcom Water & Sewer District
1220 Lakeway Drive
Bellingham, WA 98229

Phone (360) 734-9224
24 Hour Emergency (360) 734-9224
FAX (360) 738-8250
generalinbox@lwvsd.org
www.lwvsd.org

Office Hours: Monday - Thursday
8:00 a.m. - 5:00 p.m.

SERVICE RATES

Utility bills are for services received in the previous two months and are mailed out bi-monthly. All water service in the District is metered. Water use from 0-600 cubic feet per billing period is covered by the basic rate. The basic rate applies at all times, even when the home is vacant. Sewer is billed at a flat rate. The rates below are for single family residences:

Every Two Months	
Water Base Charge	\$57.29
Sewer Base Charge	\$151.74
Total Basic Rate	\$209.03
Water per 100 cubic feet over 600 (up to 2,500)	\$8.13
Water per 100 cubic feet over 2,500	\$10.17

Average water use over the duration of two months for one person is about 600 cubic feet. Water usage usually increases during the summer months.

Low Income Senior/Disabled Reduced Rate

Qualifying rate payers will receive a 40% rate reduction. For more information regarding this option, contact the District's office. This reduced rate will be available until 12/31/2019.

HELP CONSERVE WATER!

The sewer portion of your bill accounts for the majority of the basic rate. Sewer costs to the District are based on the volume of sewage sent to the City of Bellingham. While sewage charges are not directly under District control, you can help control sewer costs by conserving water and thus sewer flows.

PAYMENTS

ACCEPTED PAYMENT METHODS ARE:

On the web: Visa, Discover, MasterCard and personal check; www.ljwvsa.org
By mail: Personal check or money order
In office: Cash, Visa, Discover, MasterCard, personal check or money order
By phone: Visa, Discover or MasterCard

All payments are required to be made in US Funds only

Post-dated checks will not be accepted.

Fees apply to all types of returned payments.

For property owners: Direct debit autopay will be processed on the 20th of the month due (or next business day)

Rental properties: Utility bills will be mailed to the property owner. When requested, a copy of the bill can also be mailed to the property addressed to "Current Resident". Property managers may also be billed by request.

The total balance is due with each billing cycle. A late charge of 10% is applied onto any remaining portion not paid by the due date.

OTHER CHARGES

Delinquent Account Fees

For those accounts delinquent by 60 days after the due date:

- Meter lock/Water service interruption \$50.00
- After 4:00 p.m./week-end unlock \$150.00
- Unauthorized meter unlock \$150.00
- Lien Recording Fee \$150.00
- Obstructed/Covered Meter \$50.00

Temporary Billing Suspension

Residents who are away from their homes for more than 3 months can save money by temporarily suspending water service to their homes. Upon receipt of a written request accompanied by a fee of \$150 and any outstanding account balance, the District will lock the meter and discontinue billing. Contact the office 48 hours prior to your return, and the meter will be unlocked during regular business hours.

Please note:

Shutting the water off on the customer side of the water meter **without following the above procedure** will not discontinue the billing.

TYPICAL WATER USE

If you are not accustomed to being on metered water you may be surprised by how much water you use. Dripping faucets and leaking toilets can add to your water bill. Watering lawns and gardens should be done sparingly if you are conserving costs. The examples below give an idea of the average water consumption by certain fixtures and appliances.

- Toilet (new) .25 cubic ft./flush
- Toilet (old) .80 cubic ft./flush
- Shower (new) .25 cubic ft./minute
- Shower (old) .68 cubic ft./minute
- Dishwasher 3.05 cubic ft./load
- Washing Machine 5.35 cubic ft./load
- Bathtub 5.00 cubic feet
- Sink Faucet .40 cubic ft./minute

COVERED METERS

Please help us to provide you with accurate bills by clearing or trimming away bushes and removing garbage cans, firewood, landscaping materials, vehicles or other obstructions from your meter.

LAKE WHATCOM WATER AND SEWER DISTRICT
Application for Water/Sewer Permit

PART 1 - Customer Billing / Lot Owner Information

Name: _____ Phone Number: _____
Mailing Address: _____
City: _____ State: _____ Zip: _____

PART 2 - Project Site Information

Tax Parcel Number: _____ Sudden Valley Division: _____ Lot(s): _____
Street Address: _____
City: _____ State: _____ Zip: _____

PART 3 - Type of Permit (check all that apply)

☐ **Water Service**

☐ Single Family Residence
☐ Commercial or Other Type of Building. Describe: _____
Water Supply Fixture Units (WSFU) per Uniform Plumbing Code: _____

☐ Customer Pressure Reducing Valve will be Installed. (show location of PRV on site plan)

Special plumbing or activities that will be present on this site:

☐ None

☐ Underground sprinkler system
☐ Water treatment system (e.g. water softener)
☐ Solar heating system
☐ Residential fire sprinkler system
☐ Sewage pumping facility or grey water system
☐ Boat moorage with water supply
☐ Home-based business. Description: _____

☐ Radiant In-floor Heat
☐ Boiler
☐ Swimming pool or spa
☐ Other water supply

(e.g. beauty salon, machine shop, etc...)

☐ **Sewer Service**

List Bonded Side Sewer Contractor Installing Sewer: _____

☐ Gravity Side Sewer
☐ Private Grinder Pump to Gravity Sewer Main (Submit Grinder Pump Service Checklist)
☐ Private Grinder Pump to Sewer Force Main (Submit Grinder Pump Service Checklist)

PART 4 - County Permits & Water/Sewer Service Site Plan

- ☐ **Copy of Whatcom County Building Permit** (new construction only)
☐ **Copy of Whatcom County Revocable Encroachment Permit** (required if work is in County Right-of-Way)
☐ **Site Plan.** Plan must be to scale, neat, legible, and include the following information as applicable:

Existing Features. Property lines, buildings, driveways, ditches, culverts, sewer mains, manholes, sewer cleanouts, fire hydrants, water main valves, sewer cleanouts.

Proposed Features. Buildings, driveways, sewer service alignment, cleanouts, connection to sewer main, grinder pump, location of customer pressure reducing valve, easements, backflow preventer.

Note: Tree removal for sewer and water service lines must be coordinated with Sudden Valley Community Association.

Application Submitted By: _____ Date: _____ Phone: _____
(print name)

**LAKE WHATCOM WATER AND SEWER DISTRICT
Grinder Pump Service Checklist**

DESIGN/PUMP SELECTION

Grinder Pump System

Tax Parcel Number: _____

- ☐ E-One 2000 Series Package Grinder Pump System
- ☐ Hydromatic Package Grinder Pump System
- ☐ Liberty Pumps 2448LSG, 2472LSG, or 2484LSG Simplex Grinder Package System
- ☐ Myers Package Grinder Pump System
- ☐ Other (System must be reviewed and approved by District. Submit drawings, specifications, & calculations)

Static Head (feet): _____ (Vertical distance, or height, effluent is pumped)

Dynamic Head (feet): _____ (Friction losses due to pipe, bends, valves, fittings)

Total Dynamic Head (feet): _____ (Static Head + Dynamic Head)

Pump Operating Point (gpm): _____ (Flow rate of pump at Total Dynamic Head)

MINIMUM SPECIFICATIONS

Grinder pump systems shall be in accordance with Section C1-10.1 and C1-10.2 of the current edition of the Criteria for Sewage Works Design published by Washington State Department of Ecology. Specific section references from the design manual are noted in parentheses below.

Installed grinder pump system shall meet the criteria for the maximum hydraulic gradeline and be able to meet the pumping requirements of the structure where it is installed. (C1-10.1.5)

☐ **Connection to Gravity Sewer Main**

- ☐ Pressure service line shall be 1-1/4" HDPE SDR11 between grinder pump and gravity sewer stub.
- ☐ Minimum pipeline velocity of 2 feet per second. (C1-10.1.4)
- ☐ Maintenance shut-off ball valve on discharge line at grinder pump. (C1-10.2.1A)
- ☐ One check valve required. Can be installed on grinder pump. (C1-10.2.1A)

☐ **Connection to Force Main**

- ☐ Pressure service line shall be 1-1/4" HDPE SDR11 between grinder pump and check valve vault.
- ☐ Minimum pipeline velocity of 2 feet per second. (C1-10.1.4)
- ☐ Maintenance shut-off ball valve on discharge line at grinder pump.
- Two check valves required. (C1-10.2.1A)**
 - ☐ Check valve #1: Installed at Grinder Pump. Can be installed on grinder pump.
 - ☐ Check valve #2: Installed at property line. Check valve in vault per Standard Detail S12.
- ☐ Tapping saddle, 2" corp stop, resilient seat gate valve, and valve box at force main. (C1-10.2.1A)
- ☐ 2" HDPE SDR11 service line between forcemain and check valve vault.

☐ **Control Panel / Electrical Requirements**

- ☐ Grinder pump UL Listed for use in raw sewage. (C1-10.2.2A)
- ☐ Pump control panel and level-sensing mechanism UL Listed for use in raw sewage (C1-10.2.2C)
- ☐ High level visual and audio alarm with battery backup. (C1-10.2.2C)
- ☐ Audio alarm capable of being silenced until repair can be made. (C1-10.2.2C)
- ☐ Power transfer switch with an emergency generator plug for vessels with less than 24 hours of storage (1000 gallons for single family residence). (C1-10.1.6D&E)
- ☐ Electrical components in compliance with National Electrical Code and state Labor and Industries Electrical Inspection Division. (C1-10.2.2D)

☐ **Ventilation**

- ☐ Grinder pump storage tank shall have a separate vent system from structure plumbing. (C1-10.2.2E)

DESIGNER/SUPPLIER CONTACT INFORMATION

Designer: _____ Phone: _____ Date: _____
(print name)

Supplier: _____ Phone: _____ Date: _____
(print name)

Assessor Parcel Number: _____

Address (if known): _____

Water/Sewer Permit and Construction Checklist

➤ Additional fees and credits associated with property

ULID #18 – is property located within the south shore sewer service area?

- ☐ **NO**, then ULID 18 does not apply.
- ☐ **YES**, then check if property has Restrictive Covenant?
 - ☐ **YES**, then property cannot be served by sewer. *Owner might be able to trade restriction for assessment from another property.*
 - ☐ **NO**, then property can be served by sewer.

Has ULID 18 assessment?

- ☐ **YES**, then can be served with no additional fees.
- ☐ **NO**, then Charges-in-Lieu of Assessment apply.

Charges-in Lieu of Assessment: \$ _____
for Year _____.

Is property located in a Latecomer Area?

- ☐ **NO**, then no additional fees apply
- ☐ **YES**, then following Latecomer Fees apply:

_____	\$ _____
_____	\$ _____
_____	\$ _____

District installed Sewer Stub?

- ☐ **NO**, then no additional fees apply
- ☐ **YES**, then an additional charge applies.

\$ _____

Applicable credits?

- ☐ Pre-Paid Connection Certificate
- ☐ Expired Permit(s)

Credit: \$ _____

Credit: \$ _____

➤ **Water Availability Form, Water/Sewer Availability Form, or Sewer-Only Will-Serve Letter**

Property is located within Urban Growth Area (UGA) or Local Area of More Intense Rural Development (LAMIRD)?

- ☐ **NO**, then City of Bellingham must confirm lot existed prior to May 1, 2005 in accordance with the Interlocal Agreement for Sewage Services between the City and District prior to District issuing an availability for sewer.

Process for confirmation with City of Bellingham.

- ☐ Property owner provides District with copy of deed or Whatcom County Lot of Record determination that proves lot existed prior to May 1, 2005.
- ☐ District will send information to City for confirmation
- ☐ When District receives confirmation from City that lot can be served, District can continue with sewer availability checklist.

- ☐ **YES**, then continue to next checklist item.

Conditions for water and/or sewer availability.

Property is adjacent to water and sewer?

- ☐ **YES**, then prepare Water and Sewer Availability Form
- ☐ **NO**, then check next condition

Property is adjacent to Sewer only?

- ☐ **YES**, then Covenant Regarding Future Water Service is required prior to Sewer-Only Will-Serve Letter, or if within 200-Feet of Water System, Developer Extension may be required.
- ☐ **NO**, then check next condition

Property is adjacent to Water only?

- ☐ **YES**, then Covenant Regarding Future Sewer Services is required prior to Water Availability Form, or if within 200-Feet of Sewer Main, Developer Extension may be required (if located within LAMIRD or UGA).

➤ **Submit Application for Water/Sewer Permit forms to District. Include the following:**

- ☐ Copy of Whatcom County Building Permit
- ☐ Copy of Whatcom County Revocable Encroachment Permit (Required if work is in County Right-of-Way)
- ☐ Site Plan to include Existing and Proposed Features
- ☐ Pressure Reducing Valve (PRV) shown on Site Plan
- ☐ Special Plumbing or Activities to be listed
- ☐ Submit Grinder Pump Checklist if required
- ☐ Designate Bonded Side Sewer Contractor performing side sewer installation

➤ **Pay Connection Fees, Sign Water/Sewer Permit**

- ☐ District will prepare Water/Sewer Permit and call to schedule time for payment and pickup (typically 1 business day after submittal of Application for Water/Sewer Permit).

➤ Connection to Water

- ☐ District will install water meter adjacent to property. Typically takes 2 to 14 days depending on whether a service line exists from the public water main to the property.
- ☐ Customers can install their own water service lines from the water meter to the house per District standards.
- ☐ Customer requests inspection of private pressure reducing valve required (PRV) on the service line at the entry of the house. The PRV protects internal plumbing from pressure spikes in public water system. The District's distribution system has over 50 large PRV's located throughout the system. These large PRV's have the potential to stick open and cause high water pressure with no warning. Customers may elect not to install a private pressure reducing valve after recording a Hold Harmless Agreement Concerning Owner's Desire Not to Install a Pressure Reducing Valve.
- ☐ Billing for both water and sewer (if also served by sewer) begins the date the water meter is unlocked by the District at customer's request.

➤ Connection to Sewer

- ☐ Installation of the side sewer from the public sewer main to the house must be performed by a contractor on the District's Bonded Side Sewer Contractor List.
- ☐ Contractor requests a pre-construction meeting with District prior to any work.
- ☐ Contractor requests sewer pipe bedding and backfill inspection prior to covering any pipe.
- ☐ Contractor requests sewer leak test inspection
- ☐ Billing for sewer-only customers begins the date the side sewer is connected to the public sewer main.



**WHATCOM COUNTY
HEALTH DEPARTMENT**

509 Girard Street
Bellingham, WA 98225
Phone 676-6724

**AVAILABILITY NOTIFICATION FOR
PUBLIC WATER
AND SEWER**

SECTION ONE – APPLICABILITY:

Health Department approval of this form is **NOT** required if your building project:

- ❖ Does not include plumbing for potable water, or;
- ❖ Is a residential remodel or addition that does not add additional bedrooms or result in an increase of floor space of more than 50%, or;
- ❖ Whatcom County Planning & Development Services determines that the building will replace a demolished or removed building and the building will not have more bedrooms or more than 50% greater floor space than the previous building.

SECTION TWO – INSTRUCTIONS:

Please take this form to your water system manager or authorized representative for completion of Section Four below. You must complete Section Three. Return this **original** (photocopies will not be accepted) form to the Whatcom County Health Department for review of water system status. The Whatcom County Health Department will not approve new building connections on public water systems that are substantially out of compliance with State laws. After the Health Department has approved this form, submit your copy to Planning & Development Services with your building plans. ***Please allow at least 1 week for the approval process.***

SECTION THREE – APPLICATION:

Building Permit or Plat Applicant's Name _____

Current Mailing Address _____

City _____ State _____ Zip _____ Phone _____

Project Type: ☐ Single Family Residence ☐ ADU ☐ Commercial ☐ Plat

Tax Parcel No. _____ Building Permit # _____

SECTION FOUR – CERTIFICATION:

Name of Subdivision _____ Div _____ Block _____ Lot _____

Water System Name _____ State ID # _____ This water system is capable of and will supply water to the residence, project or plat for _____ ☐ **New** ☐ **Existing** connection(s) located at _____

The above Public Water System is approved by the State Department of Health or the Whatcom County Health Department for _____ service connections and currently serves _____ connections. The water system facilities necessary to adequately provide service to this site have been designed, approved and installed per WAC 246-290 or WAC 246-291. The final plat approval or building permit must be applied for within one year of the purveyors' signature date, which is when this Water Availability Notification Form expires.

Can your system provide fire flow to this property? ☐ Yes ☐ No Is fire flow available within 400 feet? ☐ Yes ☐ No

Certified by (Signature and Title) _____ Date _____

Address _____ Phone _____

SECTION FIVE – APPROVAL:

☐ **Approved**

☐ **Denied** Date _____

Comments: _____

☐ Mail to: _____

by: _____

Whatcom County Environmental Health

Approval expires: _____

☐ Call when ready: _____



LAKE WHATCOM WATER & SEWER DISTRICT

1220 Lakeway Drive
Bellingham, WA, 98229

(360) 734-9224
Fax 738-8250

Sample

{Date}

Re: Sewer "Will Serve" Letter for
{Address}
{Assessor Parcel Number}

To Whom It May Concern:

The District can currently provide sewer service to the above parcel. Currently water is not available to this parcel. Prior to issuance of a sewer permit, a Covenant Binding Property Regarding Future Water Service must be recorded at the Whatcom County Auditor's Office. See attached covenant form.

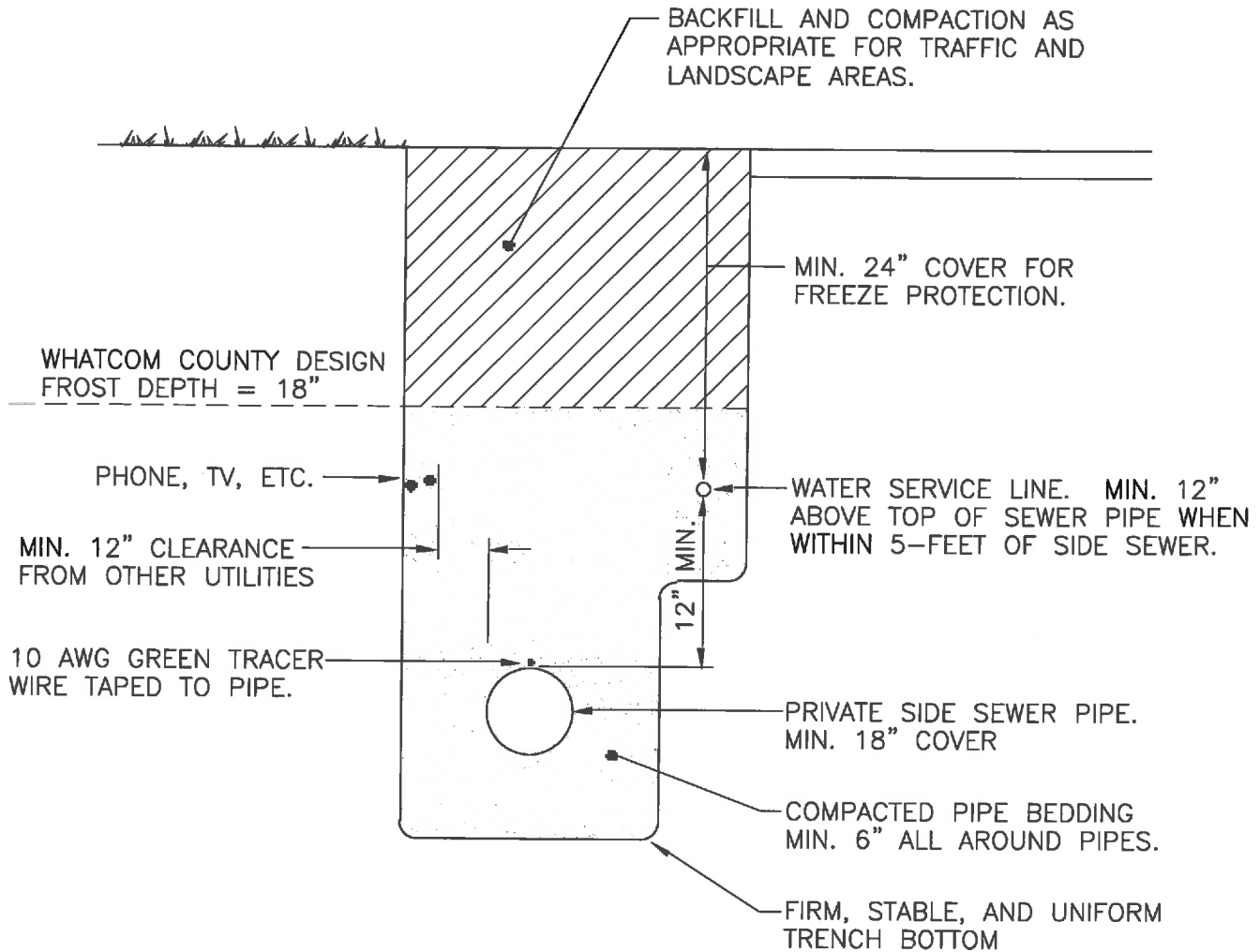
This determination, however, is not indefinite, nor irrevocable. Nothing stated herein constitutes a commitment to provide water and sewer service to you in the future. The information used to arrive at this determination of availability is believed to be accurate at this time, but future demands are not always predictable. Similarly, new laws, regulations, or ordinances could also limit the ability to provide water and sewer service in the future. Accordingly, any expenditure which you make in anticipation of future sewer service is strictly at your own risk. Any statements in paragraph(s) above which are inconsistent with this paragraph should be disregarded.

Please call if you have any questions.

Sincerely,

LAKE WHATCOM WATER & SEWER DISTRICT

{District Representative}
{Title}



NOTES:

1. District side sewer pipe material standards (PVC ASTM D3034 SDR 35) comply with 2012 International Plumbing Code (IPC) Table 702.3 Building Sewer Pipe. Separation of water service and side sewer as detailed above complies with IPC 603.2 requirements.

2. Water service lines and side sewers shall be bedded in material meeting WSDOT 9-03.12(3) Gravel Backfill for Pipe Zone Bedding as shown in following table:

Sieve Size	Percent Passing by Weight
1.5"	99-100
1"	75-100
5/8"	50-100
U.S. No. 4	20-80
U.S. No. 40	3-24
U.S. No 200	10.0 max
Sand Equivalent	35 min.

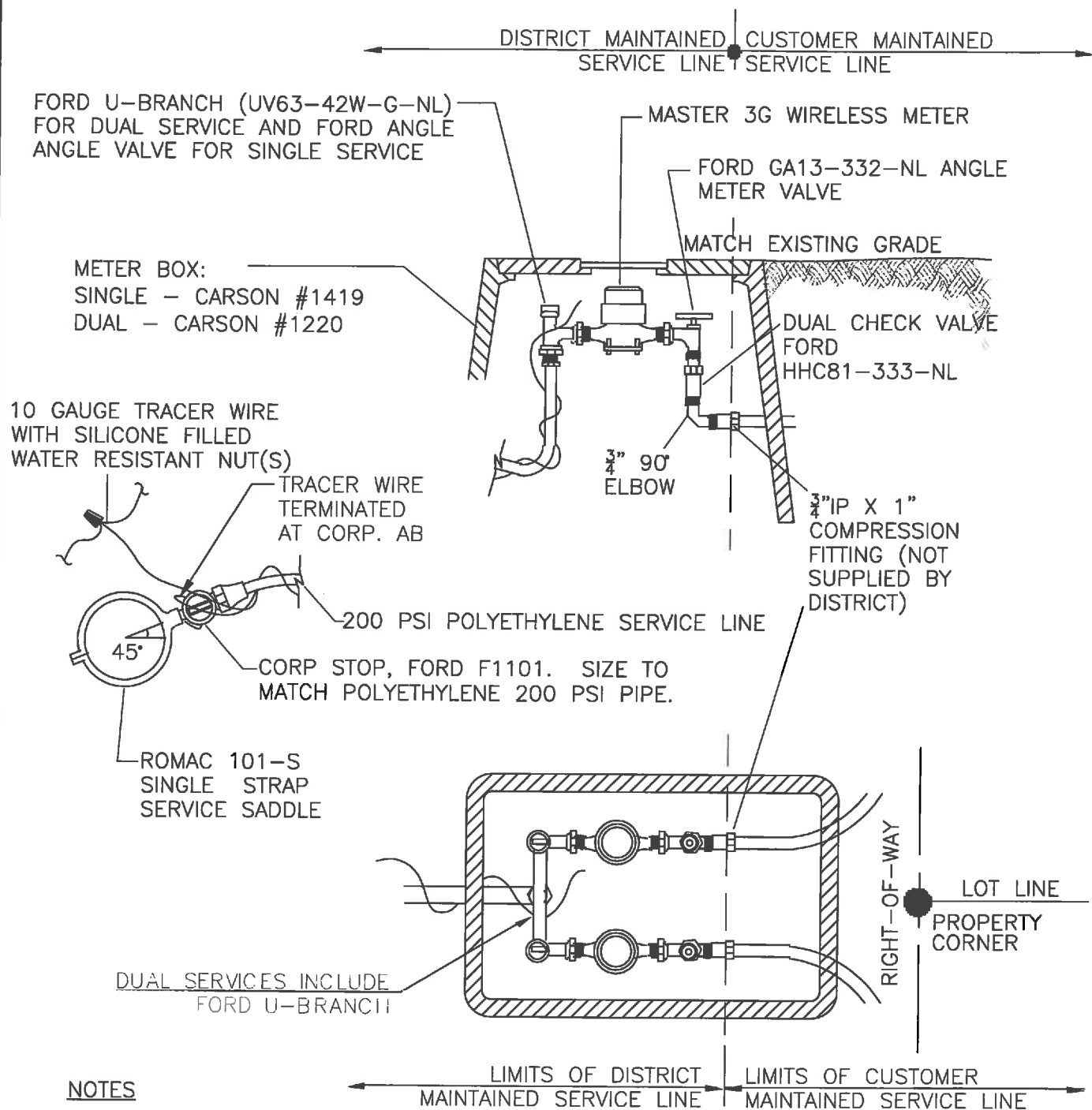


PRIVATE WATER SERVICE LINE AND SIDE SEWER TRENCH DETAIL

STANDARD DETAIL

G7

5/1/2014

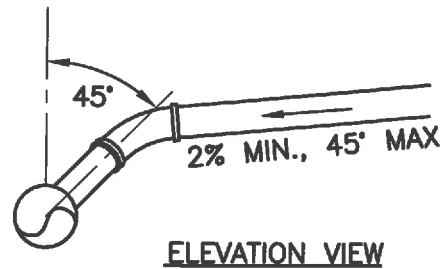
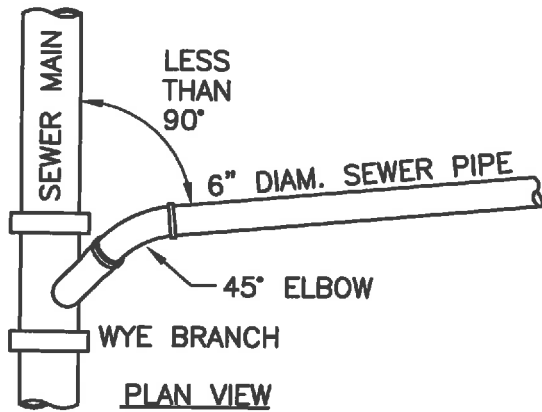


WATER METER ASSEMBLY

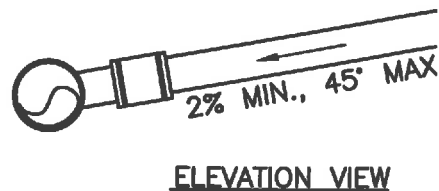
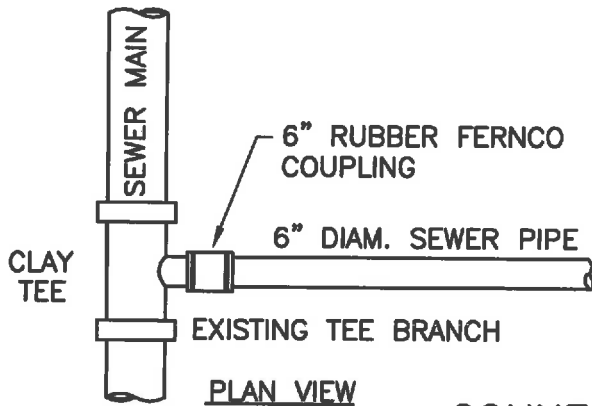
STANDARD DETAIL

W8

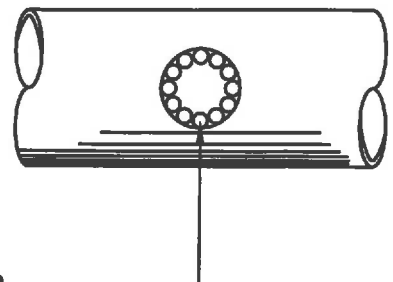
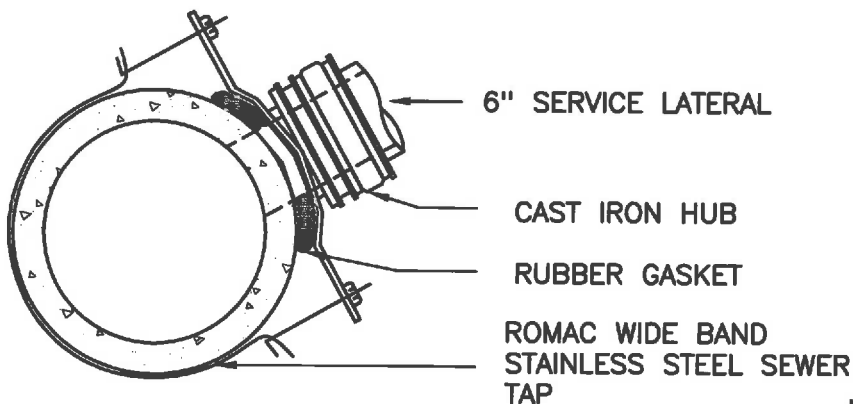
01/04/2016



SERVICE LATERAL INSTALLED WITH NEW MAINS



CONNECTION TO EXISTING TEE



NOTES;

1. Install wye fitting with gaskets for new sewer installations
2. Pipe bedding shall be sand or pea gravel 6" all around.
3. Minimum cover to finish grade is 30".
4. Drill multiple 3/4" holes (20 min for 6") then break out

CONNECTION TO EXISTING SEWER (TAP)

MIN 20, 3/4" BORE HOLES FOR
TAPPING SANITARY SEWER MAIN

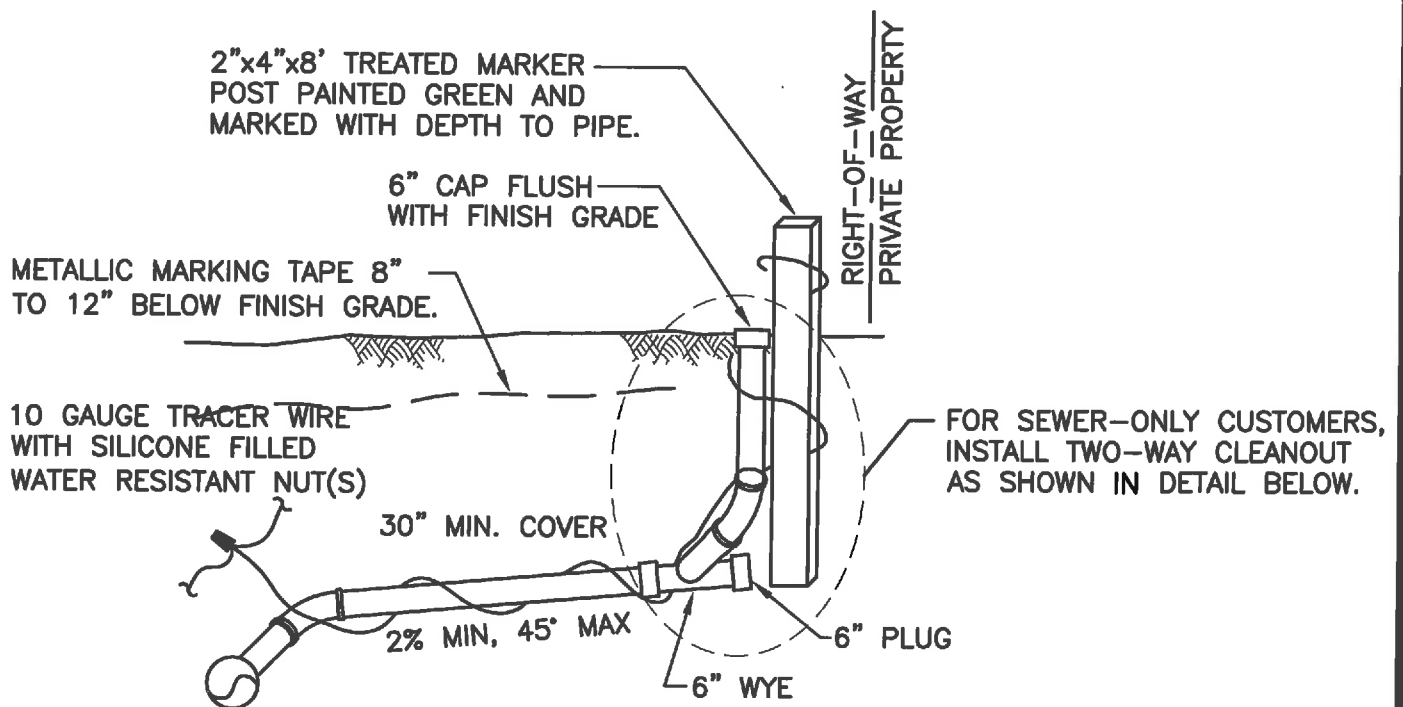


SEWER LATERAL CONNECTION TO MAIN

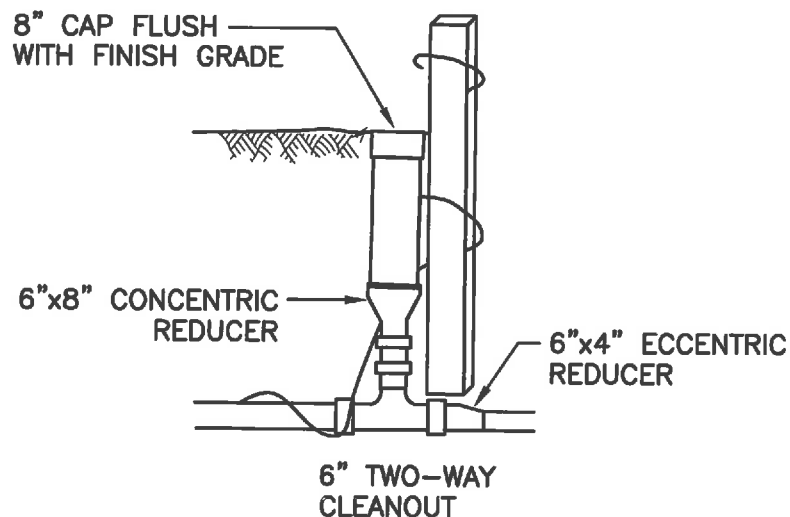
STANDARD DETAIL

S6

3/13/2014



TYPICAL SEWER LATERAL & CLEANOUT



CLEANOUT FOR SEWER-ONLY CUSTOMERS.



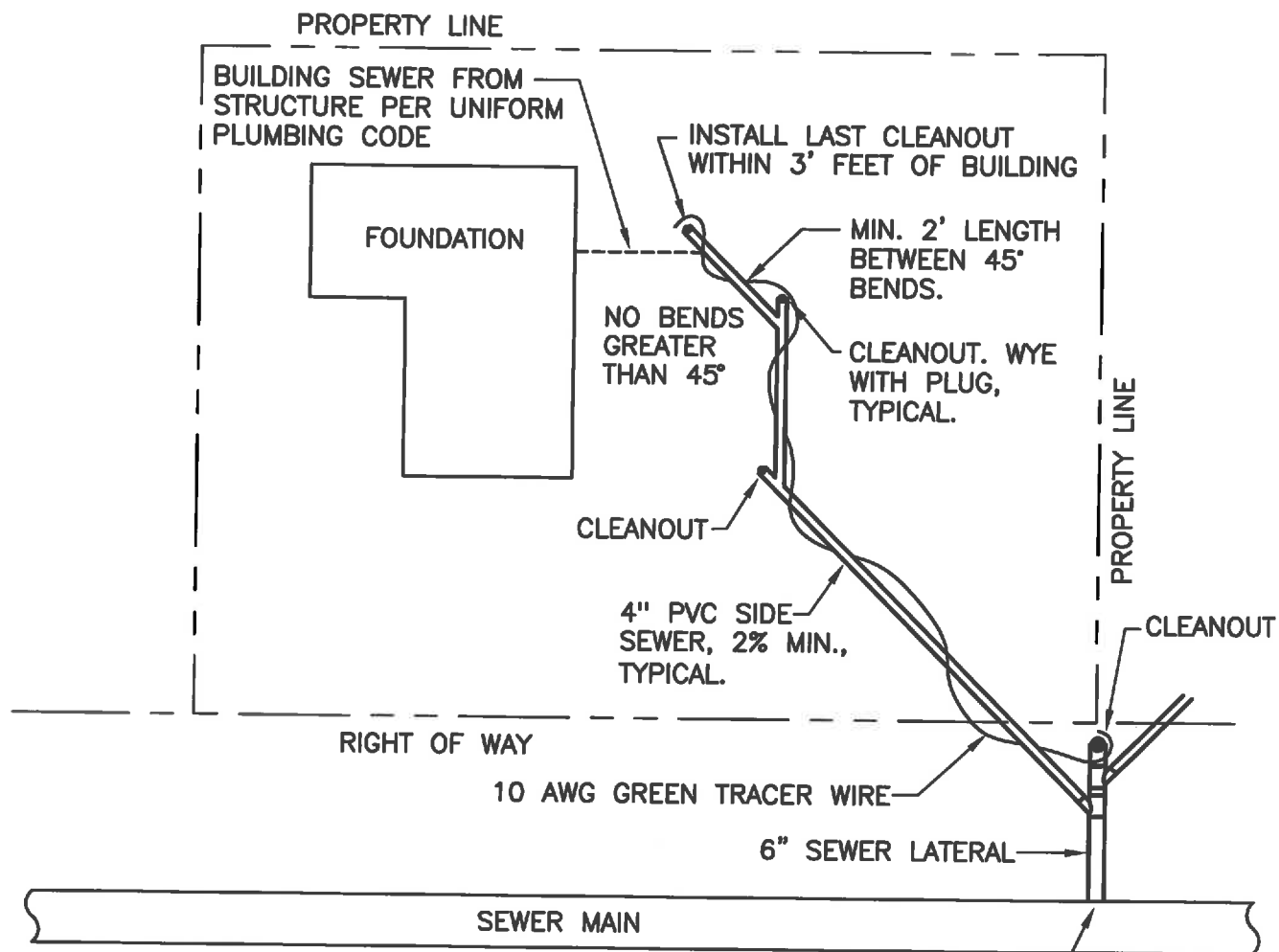
SEWER LATERAL AND CLEANOUT

STANDARD DETAIL

S7

3/13/2014

Page 16



DISTRICT MUST AUTHORIZE ALL CONNECTIONS TO MAINS. CONNECTIONS TO MAIN SHALL BE TO EXISTING LATERALS OR TEES. ONLY IN SPECIAL CASES SHALL A NEW MAIN TAP BE AUTHORIZED.

Notes:

1. All pipe from main to cleanout at foundation shall be PVC ASTM D3034 SDR 35, joints shall conform to ASTM D3212 using elastomeric gaskets conforming to ASTM F477. Fittings shall be injection molded, factory welded, or factory solvent cemented.
2. Minimum 18" of cover from property line to building.
3. Down spouts, sump pumps, and outside drains shall not be connected to the sewer line.
4. Bends greater than 45° will not be accepted.
5. Minimum size for sewer lines will be 4" for single family residence and 6" for multi-family residence up to a 4 plex.
6. Cleanouts on service lines shall be installed at every change in alignment or grade in excess of 22 1/2 degrees.
7. Cleanouts shall be spaced no greater than 100' apart.
8. A cleanout shall be installed within 3' of the building.

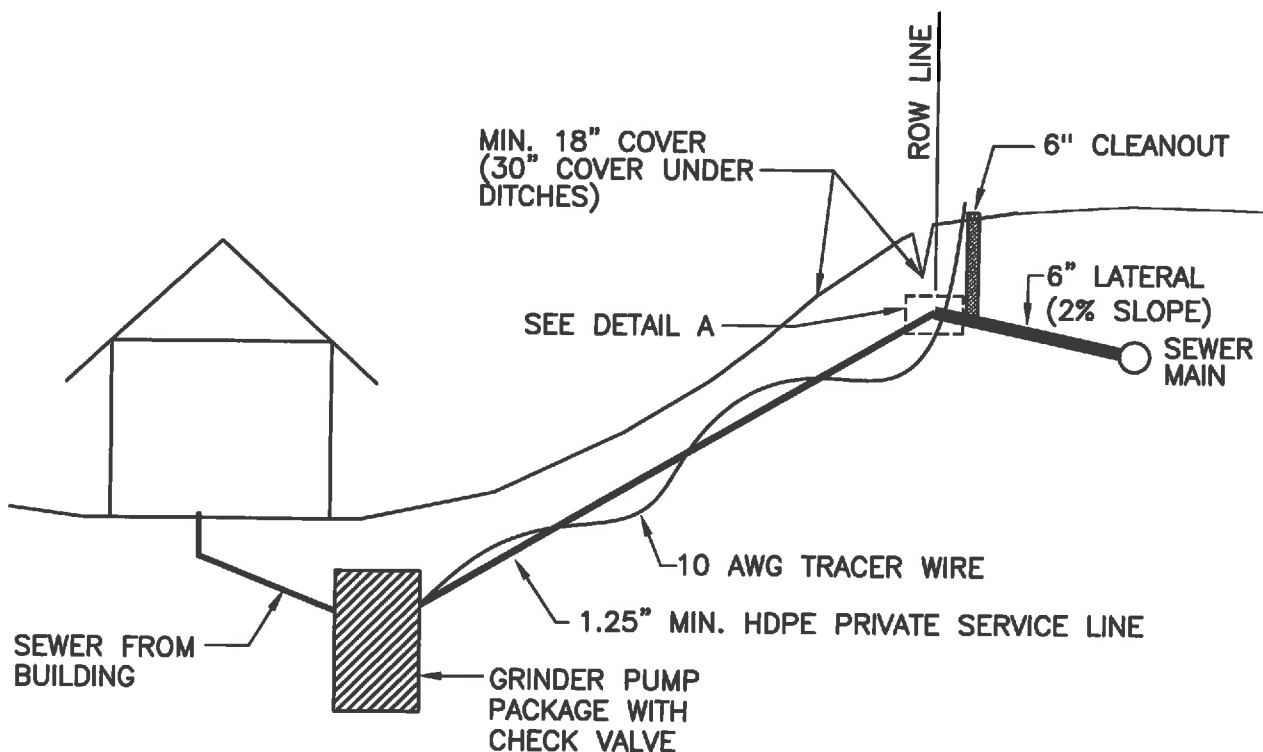
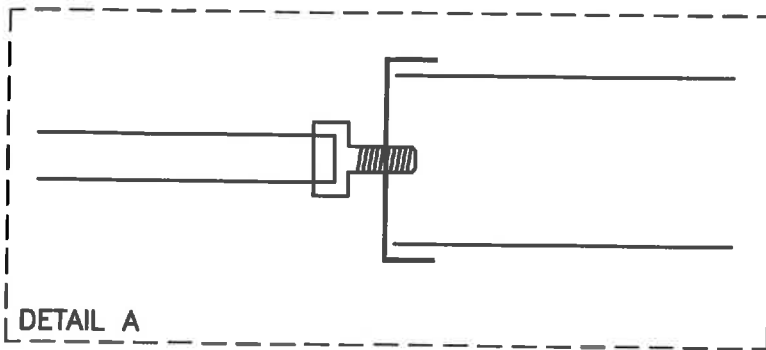


GRAVITY SIDE SEWER INSTALLATION

STANDARD DETAIL

S8

3/13/2014



SEE DOE'S CRITERIA FOR
SEWAGE WORKS DESIGN,
SECTIONS C1-10.1 & C1-10.2
FOR GRINDER PUMP DESIGN &
COMPONENT INFORMATION

NOTES:

1. Pressure sewer service pipe shall be PE 3408 HDPE conforming to the requirements of ASTM D-3350. Piping shall be SDR11, IPS (OD), pressure rated at 160 PSI, conforming to the requirements of AWWA C901 and ASTM F714.
2. Brass compression fittings only - no hose clamps.

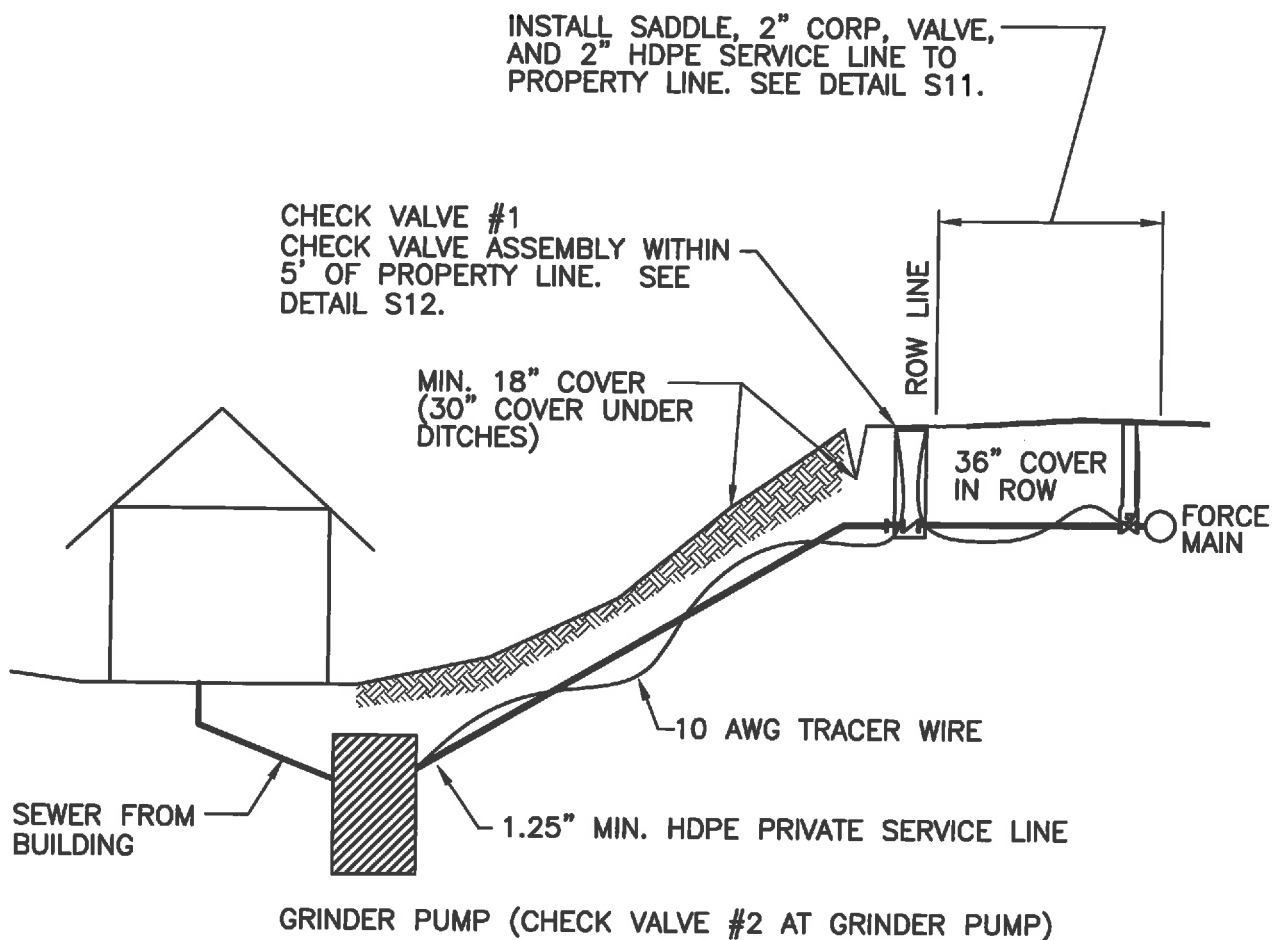


GRINDER PUMP SERVICE TO GRAVITY MAIN INSTALLATION

STANDARD DETAIL

S9

3/13/2014



SEE DOE'S CRITERIA FOR
SEWAGE WORKS DESIGN,
SECTIONS C1-10.1 & C1-10.2
FOR GRINDER PUMP DESIGN &
COMPONENT INFORMATION

NOTES:

1. Pressure sewer service pipe shall be PE 3408 HDPE conforming to the requirements of ASTM D-3350. Piping shall be SDR11, IPS (OD), pressure rated at 160 PSI, conforming to the requirements of AWWA C901 and ASTM F714.
2. Two check valves are required between the pump station and the force main. One check valve shall be installed within 5' of the right-of-way in the check valve vault. The second valve shall be installed at the grinder pump.

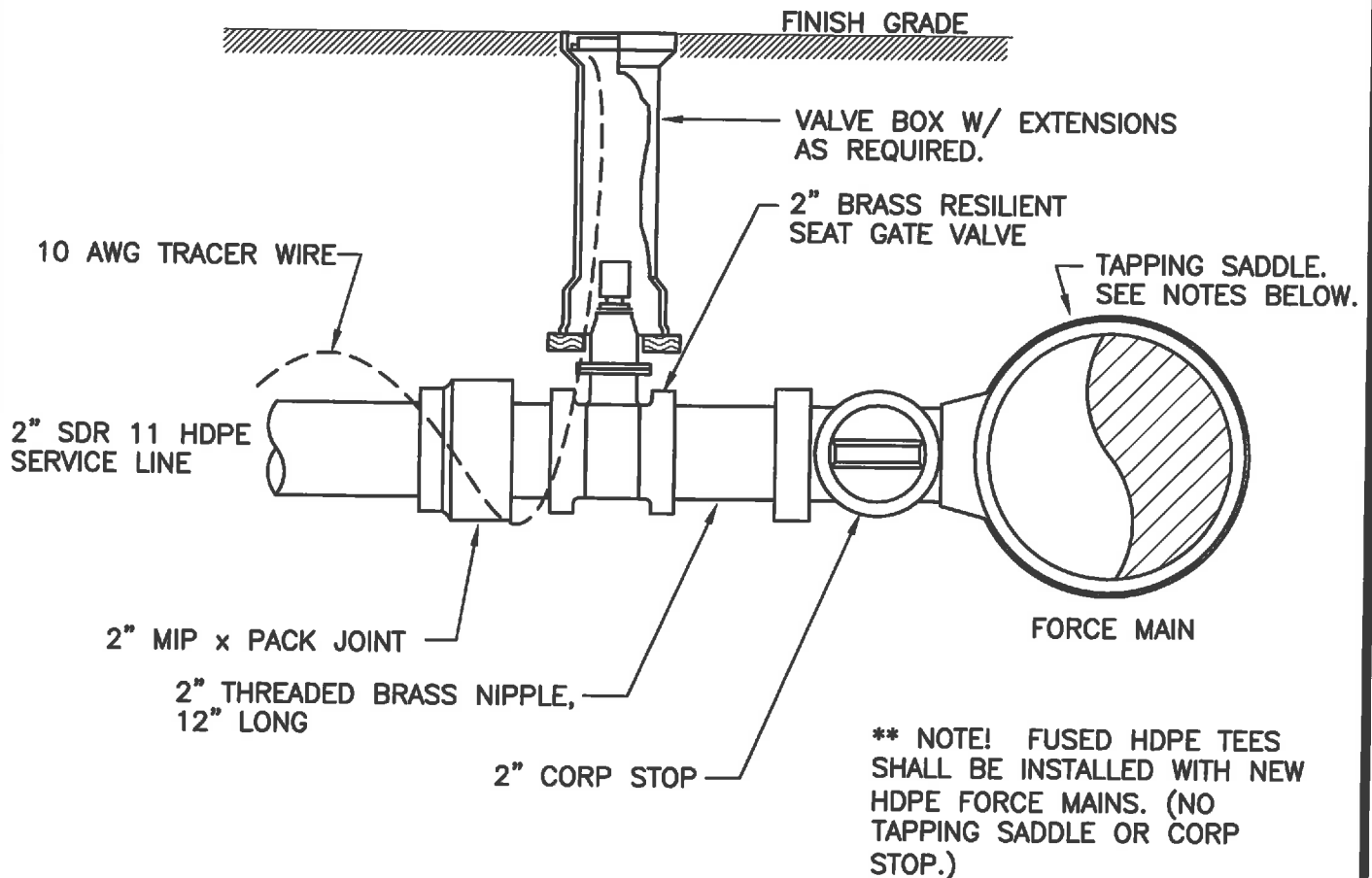


GRINDER PUMP SERVICE TO FORCE MAIN INSTALLATION

STANDARD DETAIL

S10

3/13/2014



NOTES:

1. **HDPE Service Saddles.** Saddles for use on SDR 17 HDPE mains shall be epoxy or nylon coated ductile iron tapping saddles with a double stainless steel strapping mechanism specifically recommended by the manufacturer for use on HDPE piping. Saddles shall be Romac style 202N-H or approved equal.
2. **PVC Service Saddles.** Saddles for use on AWWA C900 PVC mains shall have epoxy or nylon coated ductile iron tapping saddles with a double strap stainless steel strapping mechanism. Service saddles shall be Romac style 202N or approved equal.
3. **Ductile Iron Service Saddles.** Saddles for use on ductile iron mains shall have epoxy or nylon coated ductile iron tapping saddles with stainless steel tapping mechanism. Service saddles shall be Romac style 101NS or approved equal.
4. **Customer Service Shutoff Valves.** Shutoff valves shall be resilient wedge type gate valves in conformance with AWWA C509. Valves shall be suitable for sewage service and be equipped with transition gaskets where needed. Gate valves shall have a non-rising stem and be fusion-bonded epoxy coated inside and out meeting AWWA C550. Gate valves shall be Clow resilient wedge gate valves or approved equal.
5. **Valve boxes** shall have the word "SEWER" cast into the cover.
6. **Fittings.** All fittings shall be brass.

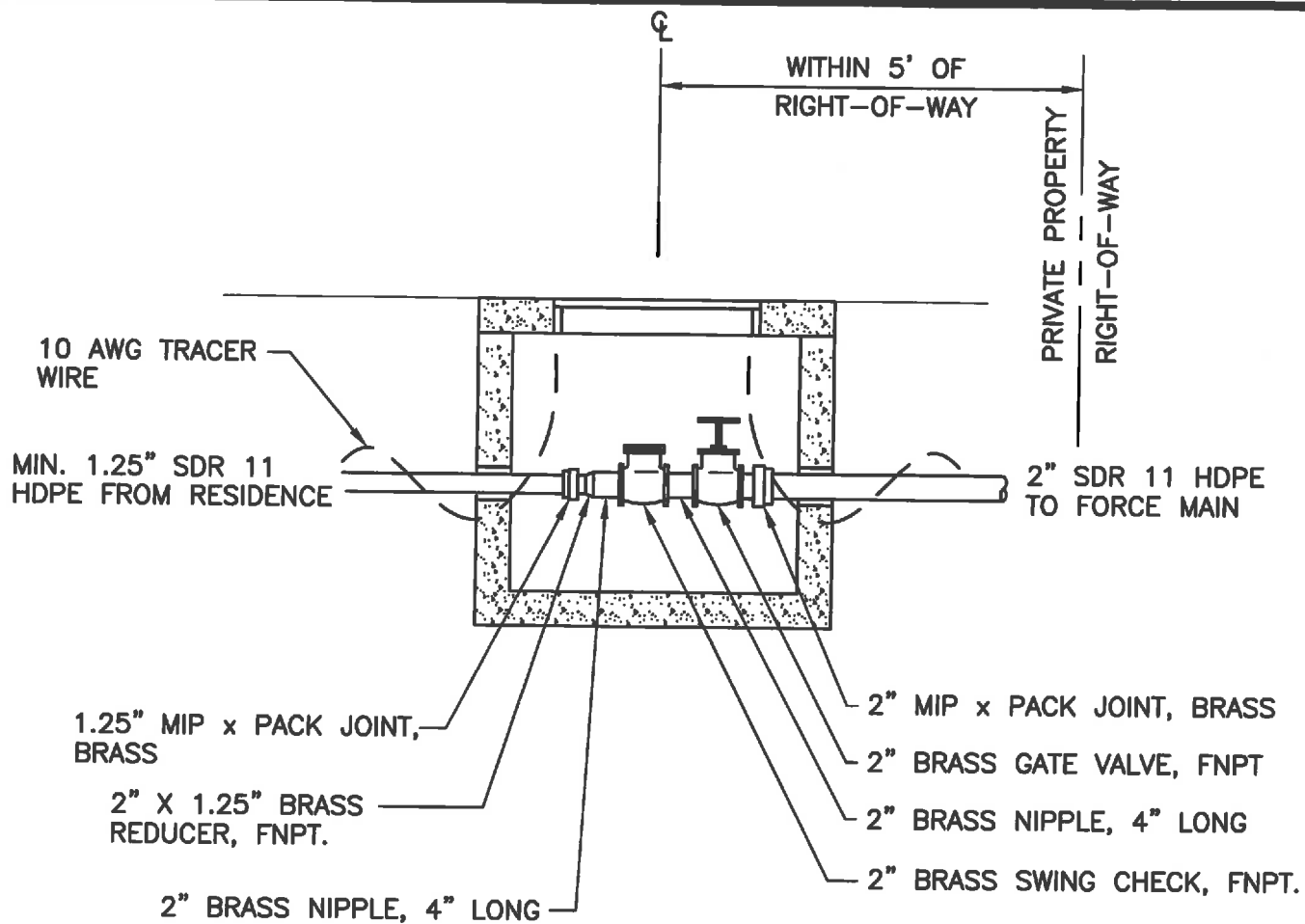


CONNECTION TO FORCE MAIN

STANDARD DETAIL

S11

3/13/2014



Notes

1. Check Valve. Check valve shall be horizontal swing type manufactured out of brass and be pressure rated to 125 psi. Valve shall have metal to metal seal and threaded NPT end connections. Valve shall be a Watts Regulator Company Series WCV or equal.
2. Gate Valve. Gate valve shall be manufactured out of brass and be pressure rated to 200 psi. Valve shall have threaded bonnet and non-rising stem. Valve shall be a Watts Regulator Company Series WGV or equal.
3. Vault. Vault shall be a pre-cast concrete hand hole with a 2'-0" by 3'-0" inside diameter and a maximum 4'-0" inside depth. Hand hole and access hatch shall be traffic rated. Access hatch shall be galvanized steel checker plate with pick holes and bolt down holes in plate. Check valve vaults shall be Utility Vault Model 2436 hand hole or approved equal.
4. Air/Vacuum Valve. Where required, air relief and combination air relief/ vacuum relief valves shall be as manufactured by Orenco, Apco, Crispin or equivalent for sewer service. All valves shall be fully accessible to enable customer's operation, maintenance and repair.
5. Fittings and Adapters. All fittings and adapters shall be brass.

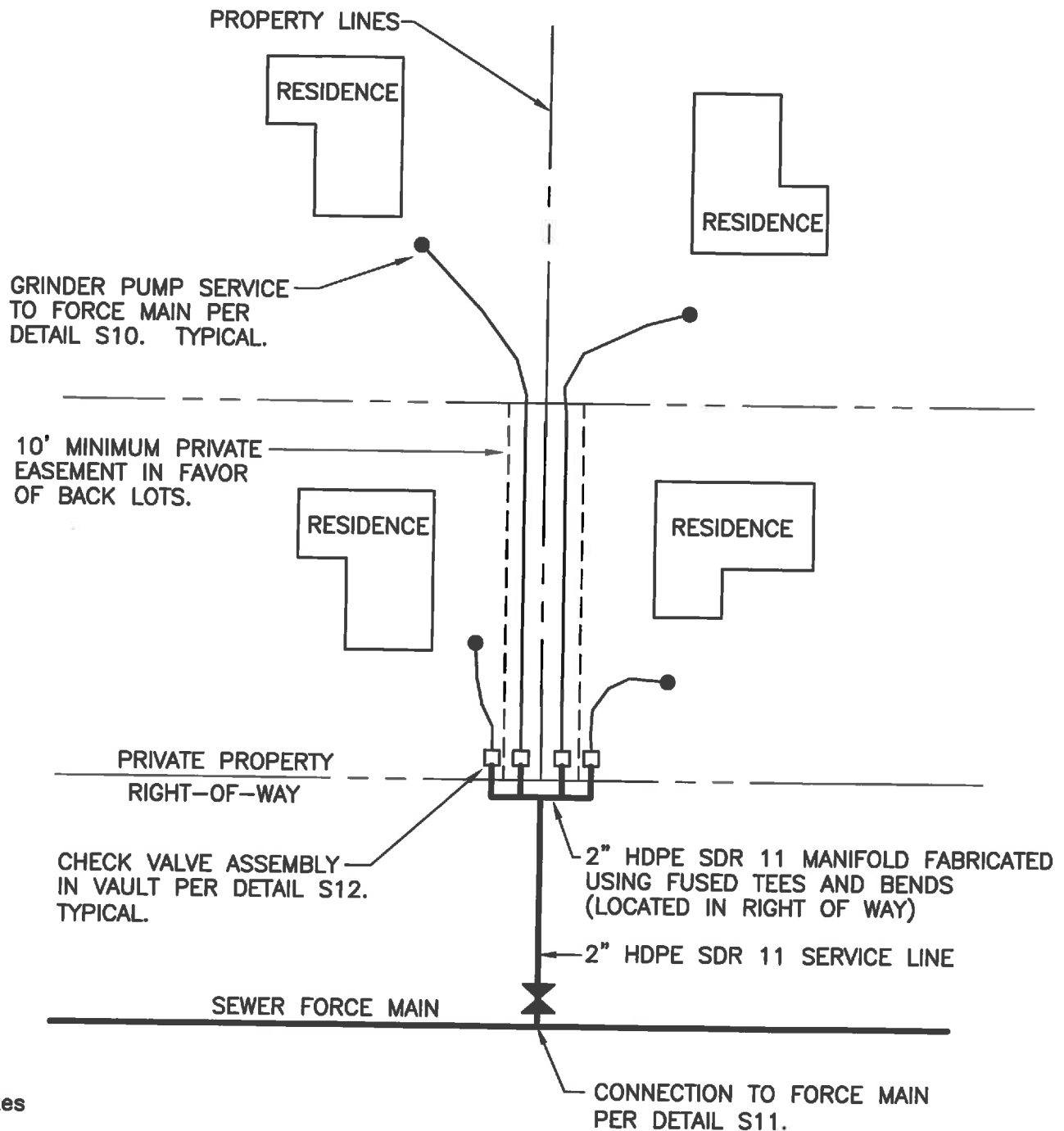


FORCE MAIN SERVICE CHECK VALVE

STANDARD DETAIL

S12

3/13/2014



Notes

1. If approved by the District Engineer, a single 2" service tap may be shared with multiple residences. District will review requests for shared taps on a case by case basis. Property owners desiring to install a shared tap, shall individually but at the same time, submit a sewer permit application with the grinder pump check list for review by the District.
2. Manifold must be fabricated using fused HDPE tees and bends by a contractor certified by a HDPE pipe or fusion machine manufacturer.

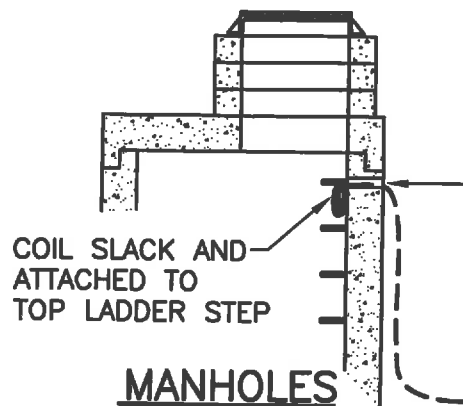


SHARED FORCE MAIN SERVICE TAP

STANDARD DETAIL

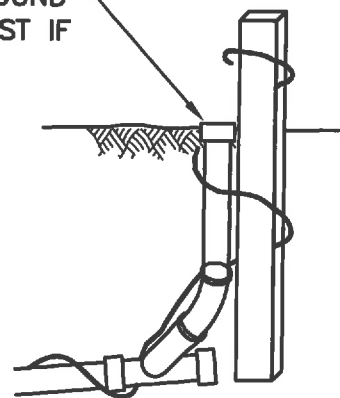
S13

3/13/2014

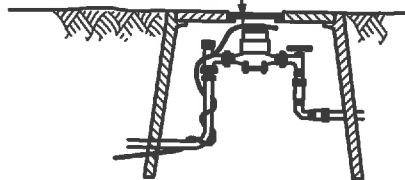


WRAP SLACK WIRE AROUND CAP (AND MARKER POST IF INSTALLED)

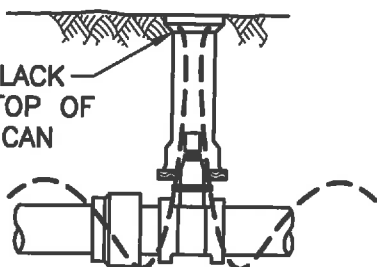
FEED TRACER WIRE THRU TOP LADDER STEP HOLE IN WALL



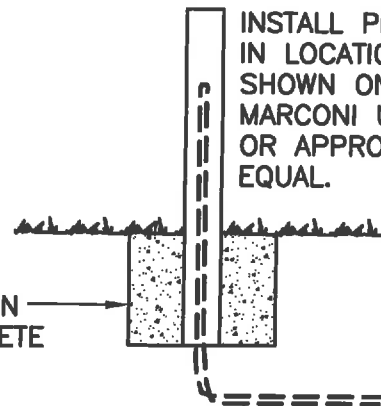
COIL SLACK IN METER BOX



COIL SLACK NEAR TOP OF VALVE CAN



INSTALL PEDESTALS IN LOCATIONS SHOWN ON PLAN. MARCONI UPCBD2 OR APPROVED EQUAL.



NOTES:

1. Tracer wire installation is required on all District owned pipe and communication lines. Tracer wire is also required on private side sewers.
2. Tracer wire shall be 10 AWG insulated copper wire rated for direct burial in wet locations. Use green insulation for sewer, blue insulation for water, and orange insulation for fiber/communication related utilities.
3. Install tracer wire in continuous lengths (no splices) between surface access points. Any direct bury splices shall be approved and inspected by the District Engineer prior to cover. Splices shall be made with silicone filled wire nuts rated for direct burial in wet locations such as "Ideal Underground Wire Connectors", "Ideal Mudbug Connectors," "Copperhead Snakebite Connectors," or "3M DBR Direct Bury Splice Kit."
4. Tape tracer wire to pipe at 10-foot intervals.
5. Provide at least 2-feet of coiled tracer wire slack at surface access points.



TRACER WIRE

STANDARD DETAIL

E5

3/13/2014



LAKE WHATCOM WATER & SEWER DISTRICT

1220 Lakeway Drive
Bellingham, WA, 98229

(360) 734-9224
Fax 738-8250

BONDED SIDE SEWER CONTRACTOR LIST

Blythe Plumbing & Heating 2201 Humboldt Street Bellingham, WA 98225 Phone (360)733-7810 FAX (360)671-3787 lorrieg@blythelinc.com	Bode's Electric/Plumbing Wolfgang Sellinger 7666 Woodland Rd Ferndale, WA 98248 Phone (360)384-4087 FAX (360)384-0524	Boss Construction Contact: Gary Christie 4945 Guide Meridian Bellingham, WA 98226 Phone (360)398-2300 Cell (360)507-1621	Coast Construction Contact: Chuck Westfall 6188 Portal Way Ferndale, WA 98248 Phone (360)306-1391 FAX (360)384-3417
Dahlgren Excavating Contact: Rick Dahlgren P.O. Box 573 Everson, WA 98247 Phone (360)380-5533	Faber Construction Corp 131 E Grover Street Lynden, WA 98264 Phone (360)354-3500 Cell (360)815-4713	Favinger Plumbing Inc. Contact: Arthur Favinger 1700 Kentucky Street Bellingham, WA 98226 Phone (360)676-1774	Fountain Construction Contact: Lee Breakey 4185 Chance Rd Bellingham, WA 98226 Phone (360)734-9167
Harkness Contracting Contact: Rick Harkness P.O. Box 233 Acme, WA 98220 Phone (360)595-1128	Henifin Construction Contact: Henifin 3857 Hannegan Rd Bellingham, WA 98226 Phone (360)733-5411	Iverson Earth Works, LLC 2330 Birch Bay Lynden Rd Custer, WA 98240 (360)366-3476	Kramer Construction 1442 Sunset Ave Ferndale, WA 98248 Phone (360)312-9739 Cell (360)303-0515
Len Honcoop Gravel Inc Contact: Jodi Tjoelker 8911 Guide Meridian Rd Lynden, WA 98264 Phone (360)354-4763	Mc Farlane Construction P.O. Box 29047 Bellingham, WA 98228 Phone (360)733-1555 FAX (360)724-6602 Cell (360)303-6993	Moceri Construction Inc. 1013 Donovan Ave Bellingham, WA 98225 Contact: Levi Nyberg Phone: (360)671-3381 Cell: (360)319-9737	Olsson Construction Contact: Duane Olson 5750 Silverstar Rd Bellingham, WA 98226 Phone (360)961-7388
On The Level Const Contact: Joe Denhartog P.O. Box 1072 Bellingham, WA 98227 Phone (360)671-1957 Cell(360)223-7673	P & P Excavating Contact: Tom Pullar 2499 E. Smith Rd Bellingham, WA 98226 Phone (360)592-5374 Cell (360)815-4473	Plumb-Rite Contact: Bill Zaiss 1706 Front St #668 Lynden, WA 98264 Cell (360)815-2576	Presco Construction 4921 Lewis Ave Bellingham, WA 98229 (360)671-9837
R & R Excavating 6595 Northwest Rd Ferndale, WA 98248 (360)815-5914 Ron5326@gmail.com	Ram Construction Contact: Mike Hammes 4290 Pacific Hwy Bellingham, WA 98225 Phone (360)715-8643	Skeers Construction Inc. Contact Dave Monks 1249 Birch Falls Drive Bellingham, WA 98225 (360)671-0911 Cell (360)305-7660	SML Construction Contact: Sean Logan 855 40 th Street Bellingham, WA 98229 Phone (360)305-5190 FAX (360)933-4546
Sorenson Construction Lyle or Dennis Sorenson P.O. Box 388 Everson, WA 98247 Phone (360)966-2628 Cell (425)508-1490	Twilight Excavation, Inc. Contact: Ray Henken 6900 Northwest Drive Ferndale, WA 98248 Phone (360)380-1769 Cell (360)201-9351	Upland Developers Inc. Contact Phil Perkins P.O. Box 2706 Ferndale, WA 98248 (360)319-6981	Matt Weeks' Excavating 2318 Birch Bay Lynden Custer, WA 98240 Phone (360)366-314 Cell (360)410-6939 mwkjweeks@yahoo.com
Winterburn Construction Chris Winterburn 4590 Sand Road Bellingham, WA 98226 Phone (360)592-1305 Cell (360)815-0269			