



Flathead County Water & Sewer District #1 - Evergreen



130 Nicholson Drive • Kalispell, MT 59901
Phone: (406) 257-5861 • Fax: (406) 756-1588

SEWER MAIN SPECIFICATIONS & STANDARDS

1. Sewer main extensions shall be designed, constructed, and tested in accordance with these specifications and standards, Montana Circular DEQ-2, and Montana Public Works Standard Specifications (MPWSS). Where discrepancies exist between these documents, the District Specifications take priority, followed by Circular DEQ-2, and then MPWSS.
2. A written report is required for all proposed sewer main extensions. The report shall contain as minimum the items listed in Circular DEQ-2 Chapter 10.
3. Conventional gravity sewer mains shall be SDR-35 PVC ASTM D-3034 gravity sewer pipe with gasketed joints. Minimum main size shall be 8 inches in diameter. Actual size to be determined by the District. Design shall be in conformance with Circular DEQ-2 Chapter 30. Conventional commercial or multi-unit services into one service stub connection will have an inspection port (manhole) at connection to stub at property line.
4. Septic tank effluent gravity sewer mains shall be SDR-35 PVC ASTM D-3034 gravity sewer main with gasketed joints. Minimum size shall be 6 inches in diameter. Actual size to be determined by the District. Minimum slope for all sizes shall be 0.20%. Design should be in accordance with Circular DEQ-2 Appendix C except as modified in these specifications and standards. Manholes are required no more than 400 feet maximum spacing. Hydraulic calculations can be based upon Manning's roughness coefficient, n equal to 0.011. Manholes are required at all junctions and when bends exceeding 11.25 degrees. Final manhole locations to be determined by the District.
5. Manholes are required on the upstream end of every small diameter septic tank effluent main. This will be determined by the District staff upon review of plans.
6. All mains shall be laid with locating tape and wire. Septic tank effluent mains shall also include 14-gauge solid core insulated toning wire suitable for direct bury. Locating wire shall be continuous loop from manhole to manhole and shall run to each service and be accessible at the septic tank risers.

Sewer Main Specifications & Standards

Adopted October 8, 2003

Revised April 21, 2021

Resolution 2021-08

Page 1 of 2

'Exhibit B'

7. Bedding material shall be well graded crushed gravel not to exceed $\frac{3}{4}$ ". Depth of bedding material shall be 4" minimum below the pipe and at least 6" over the top of the pipe.
8. Minimum depth of bury of sewer mains shall be 4 feet from invert to finished ground surface. Pipe with less than 4 feet of cover shall be insulated. See attachments 19 & 20 following.
9. Manholes shall be 4 feet in diameter precast concrete manholes conforming to ASTM C-478 with ladder rungs on 16-inch centers. Manholes shall be waterproofed with a 'Chimney Seal' barrier, **Whirly Gig** Manhole Riser Collar System, **Cretex** External Chimney Seal, **Cretex** Internal Chimney Seal, or **WrapidSeal** manhole Encapsulation System. Also, manholes shall be constructed with one of the following joints seals, **Infi-Shield** Gator Wrap, **Press-Seal** EZ-WRAP, **MarMac**, **MacWrap**, Riser-Wrap, or **Con-Seal** CS-212. Exterior surfaces of manholes shall be sealed with Xypex crystalline and Gamma cure.
10. Cast iron ring and covers for manholes shall be IFCO 772 with $\frac{1}{4}$ " O-ring Gasket glued into machined groove in seat of ring, standard a cover with no bolts, marked Evergreen Sewer.
11. Property requesting sewer service must be adjacent to a District sewer main and the service will not be located on any other property other than the property to be served by the line. In the event a requested service is not adjacent to a sewer main then a sewer main extension will be required.
12. All new sewer mains and manholes will be tested following Montana Public Works Standard Specification vacuum test and have a camera inspection performed on all new lines after jetting. All results will be given to the District prior to acceptance. Owner / Developer shall be responsible for warranty of work for 24 months starting from acceptance.
13. When Metering is required for use in sewer tracking or billing, the meter will have to be approved by District staff to ensure proper use with district reading equipment. Owner/contractor will provide reasonable protection of metering enclosures and metering devices from damage of vehicles, snowplows, etc. If not seen reasonable, District will require owner/contractor to move or facilitate protection at their expense.
14. Additional information and drawings are available in the District Sewer 'Specifications and Standards'.
15. Flathead County Water & Sewer District No.1 - Evergreen, by EPA Mandate, follows City of Kalispell WWTP Pretreatment guidelines. Therefore, all grease traps and oil sand interceptor designs must be presented to the pretreatment official at the Kalispell WWTP and signed off for approval. Then after installation the grease traps and/or oil sand interceptors, those fixtures must be inspected by the City of Kalispell and the developer shall provide a copy of written acceptance by the City of Kalispell of the pretreatment facilities before service can be put online.

ANY VARIATION OF THE ABOVE MAY BE MADE AT THE DISCRETION OF THE DISTRICT

Sewer Main Specifications & Standards

Adopted October 8, 2003

Revised April 21, 2021

Resolution 2021-08

Page 2 of 2

SEPTIC TANKS
New Standard

Gravity Applications

Septic tanks for applications where gravity flow is possible shall be the standard "Evergreen Septic Tank" conforming to the "New & Existing Septic Tanks" section and Detail Drawing #22 of the current version of Sewer Specifications for Flathead County Water & Sewer District #1 Evergreen.

Provide two tank risers, one at each end of the septic tank over inlet & outlet baffles. Risers shall be single piece of 24-inch diameter ribbed PVC risers, with tank adapter cast into top of tank at base of riser and flat fiberglass bolt down lid at top of riser, by Orenco Systems, Inc. Riser shall be trimmed in the field at completion of installation so that top of riser matches finished grade.

Pumped Applications

Where gravity flow is not possible and pumping is necessary, for single family residences, a 1500-gallon, two compartment tank, where the first compartment is a 1,000 septic tank and the second compartment is a 500-gallon pump chamber, shall be provided. Uses other than single family residential may require larger compartments. Sizing shall conform to "New & Existing Septic Tanks" section of the current version of Sewer Specifications for Flathead County Water & Sewer District #1 Evergreen.

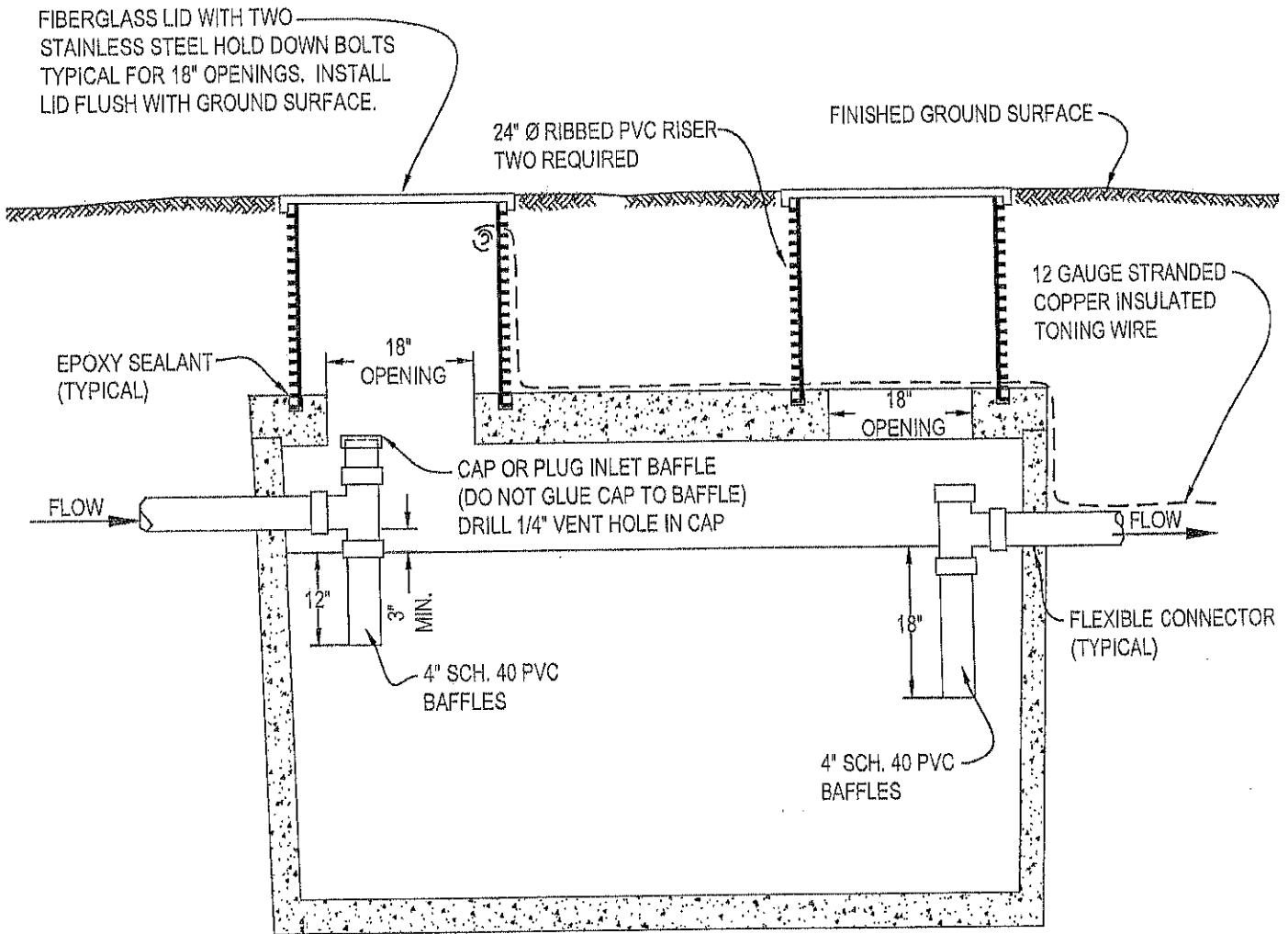
Property owners will be responsible for operation, maintenance, repair & replacement of the tank, risers, pumps, floats, pump control devices and appurtenances in and out of the pump chamber of the tank. The District will provide regular pumping of the tank in scheduled area pumping cycles.

Tankage shall be built to Flathead County septic tank standards with the following additions:

1. Septic tanks will be constructed where floors and walls shall be one-piece, single pour with no joints or seams. The tank lid may be a separate piece set atop the tank walls, with joint between lid and walls sealed with a continuous bead of Ramneck sandwiched between the top of the walls and underside of the lid. The tank(s) will have all seams, sealed with 'Press Seal Easy Wrap' barrier. Tank surfaces to be sealed with Xypex penetrating cementous waterproofing compound.
2. For inlet piping wall penetrations, provide smooth formed circular opening cast into tank wall and seal penetration with Press Seal PSX Direct rubber boot. For pump discharge pipe penetrations, provide 2-inch diameter Schedule 80 PVC coupling precast into tank wall.
3. Standard Schedule 40 PVC baffles are to be provided on both inlet and outlet piping in tank.
3. Provide three tank risers, one at each end of the septic tank compartment and the third over the pump chamber. Risers shall be single piece of 24-inch diameter ribbed PVC risers, with tank adapter cast into top of tank at base of riser and flat fiberglass bolt down lid at top of riser, by Orenco Systems, Inc. Riser shall be trimmed in the field at completion of installation so that top of riser matches finished grade.

Location – Common to both Gravity & Pumped Applications

Tanks are to be installed in a non-traffic area. Provide bollards or barriers to protect tank. If tank is to be installed in area subject to vehicular traffic, provide extra thick traffic rated lid on tank and cast-iron rings and lids over access risers.

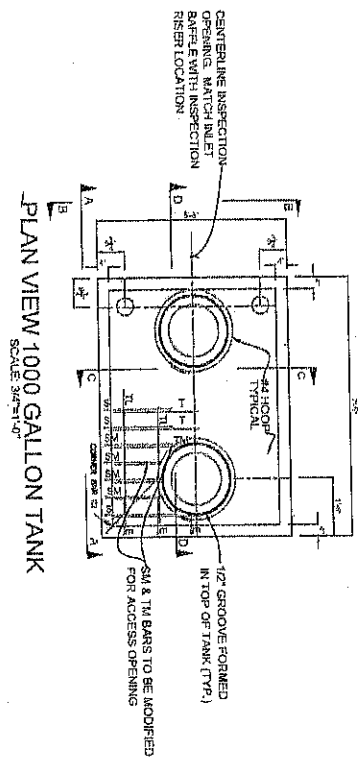
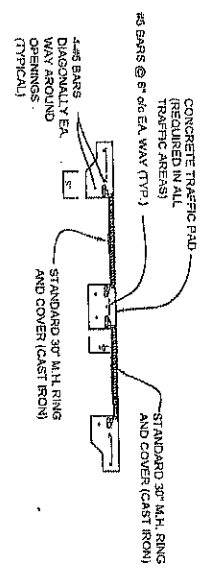


NOTE: INTERIOR BAFFLE NOT SHOWN FOR 2000 GALLON TANKS AND LARGER

NEW SEPTIC TANK RISER AND BAFFLE DETAILS

NO SCALE

#13
DETAIL DRAWING
MAY, 1994
JULY 20, 2020

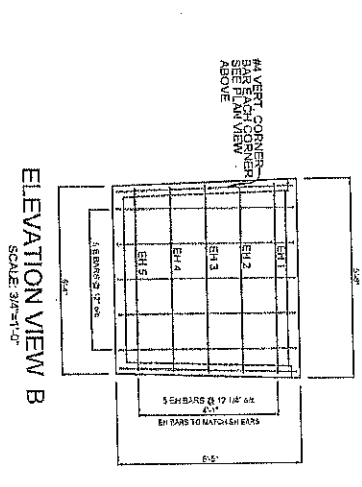
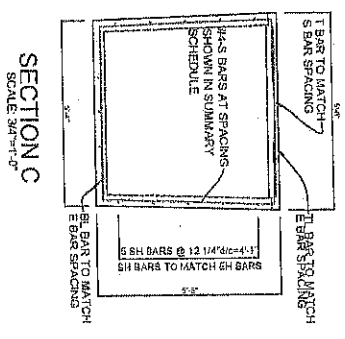
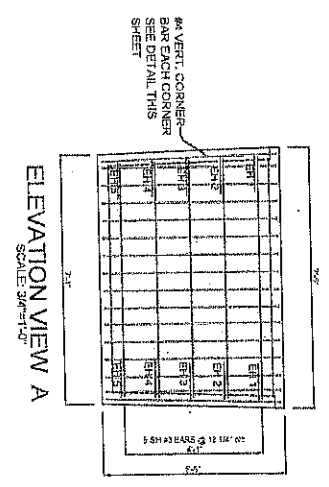
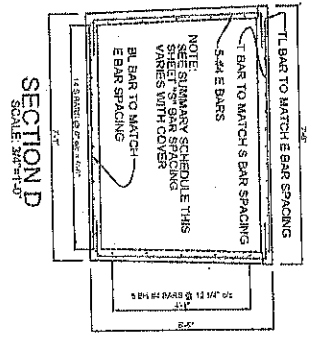


SUMMARY SCHEDULE

TYPE	DESCRIPTION	QTY	UNIT
CLASS 1	CONCRETE	8	SQ. FT.
CLASS 2	CAST IRON	2	PIECES
CLASS 3	CAST IRON	2	PIECES

BILL OF REINFORCING

NO.	DESCRIPTION	SIZE	LENGTH	NO. OF BARS	UNIT
1	TL BAR TO MATCH E BAR SPACING	5/8"	10'-0"	1	PIECE
2	TR BAR TO MATCH S BAR SPACING	5/8"	10'-0"	1	PIECE
3	TL BAR TO MATCH E BAR SPACING	5/8"	10'-0"	1	PIECE
4	TR BAR TO MATCH S BAR SPACING	5/8"	10'-0"	1	PIECE
5	TL BAR TO MATCH E BAR SPACING	5/8"	10'-0"	1	PIECE
6	TR BAR TO MATCH S BAR SPACING	5/8"	10'-0"	1	PIECE
7	TL BAR TO MATCH E BAR SPACING	5/8"	10'-0"	1	PIECE
8	TR BAR TO MATCH S BAR SPACING	5/8"	10'-0"	1	PIECE
9	TL BAR TO MATCH E BAR SPACING	5/8"	10'-0"	1	PIECE
10	TR BAR TO MATCH S BAR SPACING	5/8"	10'-0"	1	PIECE
11	TL BAR TO MATCH E BAR SPACING	5/8"	10'-0"	1	PIECE
12	TR BAR TO MATCH S BAR SPACING	5/8"	10'-0"	1	PIECE
13	TL BAR TO MATCH E BAR SPACING	5/8"	10'-0"	1	PIECE
14	TR BAR TO MATCH S BAR SPACING	5/8"	10'-0"	1	PIECE
15	TL BAR TO MATCH E BAR SPACING	5/8"	10'-0"	1	PIECE
16	TR BAR TO MATCH S BAR SPACING	5/8"	10'-0"	1	PIECE
17	TL BAR TO MATCH E BAR SPACING	5/8"	10'-0"	1	PIECE
18	TR BAR TO MATCH S BAR SPACING	5/8"	10'-0"	1	PIECE
19	TL BAR TO MATCH E BAR SPACING	5/8"	10'-0"	1	PIECE
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21	TL BAR TO MATCH E BAR SPACING	5/8"	10'-0"	1	PIECE
22	TR BAR TO MATCH S BAR SPACING	5/8"	10'-0"	1	PIECE
23	TL BAR TO MATCH E BAR SPACING	5/8"	10'-0"	1	PIECE
24	TR BAR TO MATCH S BAR SPACING	5/8"	10'-0"	1	PIECE
25	TL BAR TO MATCH E BAR SPACING	5/8"	10'-0"	1	PIECE
26	TR BAR TO MATCH S BAR SPACING	5/8"	10'-0"	1	PIECE
27	TL BAR TO MATCH E BAR SPACING	5/8"	10'-0"	1	PIECE
28	TR BAR TO MATCH S BAR SPACING	5/8"	10'-0"	1	PIECE
29	TL BAR TO MATCH E BAR SPACING	5/8"	10'-0"	1	PIECE
30	TR BAR TO MATCH S BAR SPACING	5/8"	10'-0"	1	PIECE
31	TL BAR TO MATCH E BAR SPACING	5/8"	10'-0"	1	PIECE
32	TR BAR TO MATCH S BAR SPACING	5/8"	10'-0"	1	PIECE
33	TL BAR TO MATCH E BAR SPACING	5/8"	10'-0"	1	PIECE
34	TR BAR TO MATCH S BAR SPACING	5/8"	10'-0"	1	PIECE
35	TL BAR TO MATCH E BAR SPACING	5/8"	10'-0"	1	PIECE
36	TR BAR TO MATCH S BAR SPACING	5/8"	10'-0"	1	PIECE
37	TL BAR TO MATCH E BAR SPACING	5/8"	10'-0"	1	PIECE
38	TR BAR TO MATCH S BAR SPACING	5/8"	10'-0"	1	PIECE
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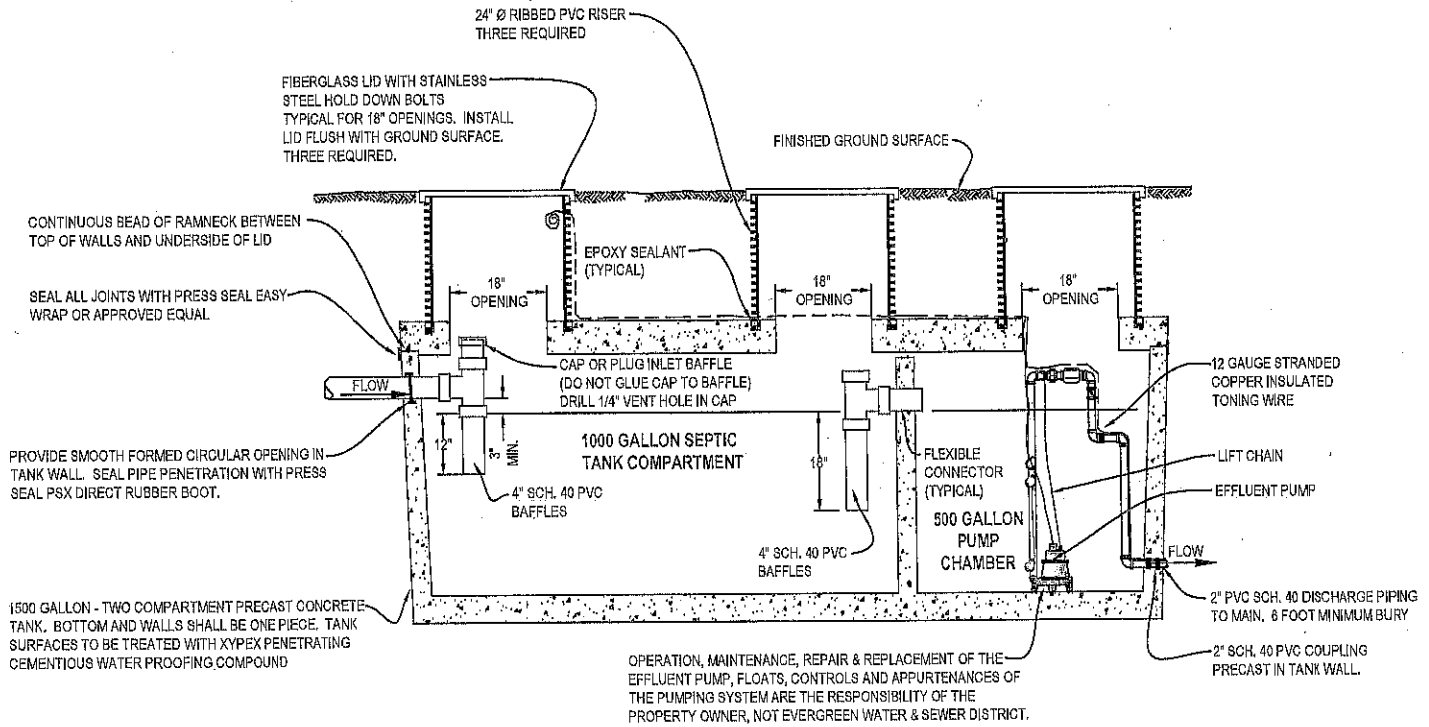


NOTE: INSTALL NEOPRENE PIPE GROMMETS WHERE DISCHARGE PIPING AND/OR ELECTRICAL CONDUIT PENETRATE PVC RISER WALL. MINIMUM DEPTH OF TANK AS MEASURED FROM INVERT OF THE OUTLET TO TOP OF FLOOR IS 4 FEET.
LIQUID DEPTH EXCEEDING 6 FEET SHALL NOT BE CONSIDERED IN DETERMINING TANK CAPACITY. INVERT OF INLET SHALL BE 3" MINIMUM ABOVE INVERT OF OUTLET.
NEW SEPTIC TANK CONSTRUCTION SHALL COMPLY WITH MONTANA DEPARTMENT OF HEALTH AND ENVIRONMENTAL SERVICES CIRCULAR 84-10, CHAPTER 81, SECTION 2 "DESIGN".

1000 & 1500 GALLON SEPTIC TANK DETAILS

NO SCALE

#22
DETAIL DRAWING
MAY, 1994
JUNE 16, 2020



NEW COMBINATION SEPTIC TANK AND PUMP STATION DETAIL

NO SCALE

#23
DETAIL DRAWING
JULY 20, 2020



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SEWER SPECIFICATIONS & STANDARDS

Specifications for Sewer Pump Stations and Force Mains

1. Pump stations and force mains shall be designed, constructed and test in accordance with these Specifications and Standards, and current editions of Montana Circular DEQ-2, and the Montana Public Works Standard Specifications (MPWSS). Where discrepancies exist between these documents, the District Specifications take priority, followed by Circular DEQ-2 and then MPWSS.
2. Pump stations shall be duplex submersible type with a 316 stainless steel slide rail, valve pit, emergency electrical power generator, slab, fencing, steel pipe for antenna pole / vent chimney, all as detailed on sheets 12 through 15 and specification Sections 03416, 11330, 11350, and Division 16 Electrical, particularly Sections 16623 –and 16902 – Controls and Instrumentation, from the Evergreen Wastewater Collection System Construction Documents and as further described in these specifications.
3. Generator set shall be Caterpillar 50 KW Model DG50-2 fitted with Caterpillar Transfer Switch Model CG. No substitutions allowed.
4. Pumping equipment shall be submersible wastewater pumps manufactured by Sulzer ABS Pumps, Inc. capable of passing 3-inch solids. Pumps shall be Sulzer Vortex Pumps, Type 80C-VX. Pumps shall be motor model PE 35/4, 480-volt, three-phase. Contact Falcon Supply Company, Inc.; Niwot, CO 80544; Fax (303)652-3460; Telephone (303)499-7131 for ABS equipment. No substitutions allowed.
5. SCADA & alarm system shall be integrated into the District's existing Allen Bradley telemetry system. System integrator shall be Industrial Process Controls, Inc. (406)871-2781. Major hardware to be provided include programmable controller, analog input module, operator interface, power supply, radio modem, and antenna. All equipment to be fully compatible with and identical existing Allen Bradley System. No substitutions allowed.

Standards and Specifications for Sewer Lift Stations

Previous Adopted 11/09/05

Resolution 2005-05

Adopted April 21, 2021

Resolution 2021-08

Page 1 of 4

'Exhibit B'

6. Lifting apparatus for the pumps (cable ***NOT*** chain, clamps, bolts, and all other hardware) shall be 316 stainless steel.
7. All piping within and between wet well and valve pit, and to flexible coupling located 5-feet from the valve pit shall be factory fabricated flanged Class 52 cement mortar line ductile iron pipe. Bolt on field flanges, are ***NOT*** allowed.
8. Fittings shall be AWWA C-153 ductile iron, flanged or mechanical joint, Class-350, cement mortar lined, asphaltic coating with polyethylene wrap. Restrain all tees, elbows 22 ½ degrees and greater, plug caps, reducers, and valves with thrust blocks and EBAA Iron Mega-lugs.
9. Provide 316 stainless steel bracket(s) to support pump power cables, level sensing device, stilling well, and float cables. Use stainless steel bolts, studs, and nuts to attach brackets to wet well wall. Provide compression cord snubber for each cable for leveling adjustment and removal of cable.
10. Hatches to be aluminum frame and cover, H-20 rated, with 316 stainless steel hardware, bolt down cover, gasket seal, waterproof recess handles, flush hinges, with spring assist hold-open device and keyed slam lock, by Halliday Products, Inc. Wet well hatch to be model number H1R030048CADAAA AZ, and valve pit hatch to be model number H1R034058CADAAA AZ. Hatch lids opening will open so that hatch lid will open toward fences and cabinets to provide better access to vaults.
11. Check Valves to be rubber flapper style capable of closing with very little backpressure, Flowmatic Model 78, Pratt RD-Series or approved equal.
12. Plug valves shall be quarter turn, eccentric plug, flanged Dezurik Series 100, Figure 118 in valve vault, 4" valves shall be furnished with lever operator, valves six (6) inch and larger shall be furnished with hand wheel and gear operator. Buried valves shall have two (2) inch square nut and valve box.
13. A written Engineer's report is required meeting DEQ 4, 11.1 for all sewage pump stations. Service area boundaries, depth and location of the pump station, and pumping capacity shall be approved by the District and may be modified at the discretion of the District to permit orderly expansion of the sewage collection and conveyance system.

Force Main Specifications

1. Force mains shall be constructed and tested in accordance with these notes and District Standards, and current editions of Montana Circular DEQ-2, and Montana Public Works Standard Specifications (MPWSS). Where discrepancies exist between these documents, these notes take priority, followed by District Specifications, Circular DEQ-2, and then MPWSS.
2. Test pressure for force main shall be 100 PSI and hold that pressure for a period of two (2) hours without any loss of pressure.
3. Provide branch with plug valve for emergency bypass connection downstream of valve pit. All flanged ductile iron pipe to be factory fabricated spools. Bolt on field flanges, are **NOT** allowed.
4. Force main begins at the flexible coupling five (5) feet from the valve pit.
5. Fittings shall be AWWA C-153 ductile iron, Class 350, cement mortar lined, asphaltic coating with polyethylene wrap. Restrain all tees, elbows 22 ½ degrees and greater, plug caps, reducers, and valves with thrust blocks and EBAA Iron Mega-lugs.
6. Sewer force mains shall be HDPE pipe and must meet MPWSS requirements.
7. All force mains shall be laid with locating tape and 14-gauge stranded wire insulated copper toning wire suitable for direct bury. Locating wire shall be continuous loop from bypass valve box to the receiving manhole.
8. Bedding material shall be well graded crushed ¾" gravel. Depth of the bedding material shall be 4" minimum below the pipe and at least six (6") over the top of the pipe.
9. Minimum depth of bury of sewer force mains shall be six (6) feet from the top of pipe to finish ground surface except where profile indicates shallower bury and insulation. High Density insulation board shall be extruded polystyrene, ASTM C-578, Type IV, 40 PSI compressive strength, two (2) inches thick, two (2) feet wide.

Standards and Specifications for Sewer Lift Stations

Previous Adopted 11/09/05

Resolution 2005-05

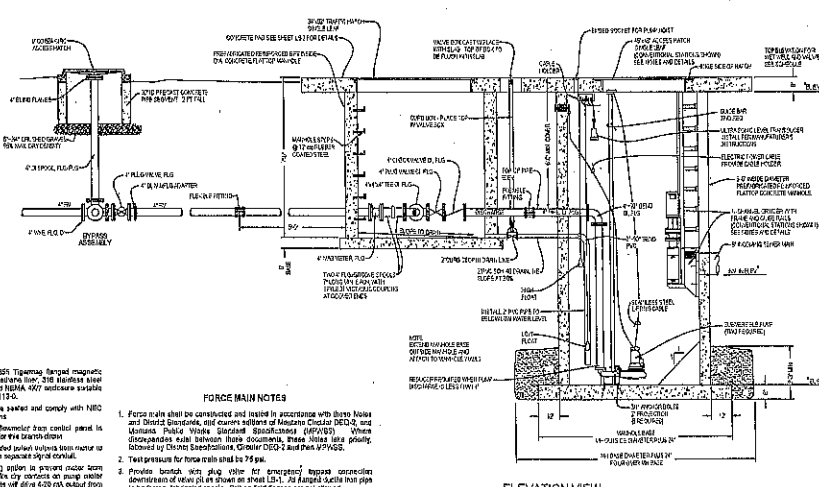
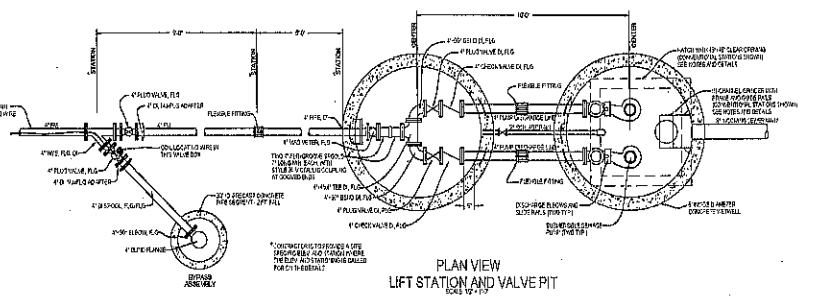
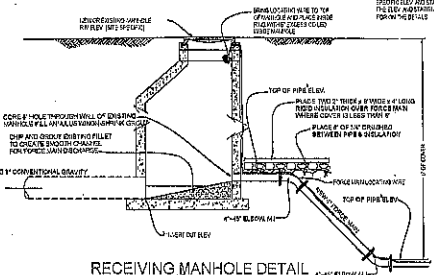
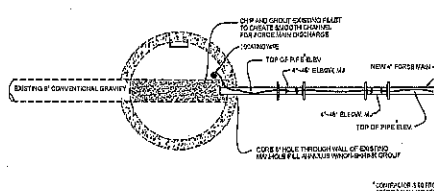
Adopted April 21, 2021

Resolution 2021-08

Page 3 of 4

Site Requirements

1. Provide driveway for access to lift station site from public right of way. Access will have to be approved by Flathead County Water & Sewer District No.1 – Evergreen. Minimum driveway width is Twelve (12) feet of pavement with one (1) foot wide gravel shoulder on each side.
2. Provide paved parking / turn around area adjacent to lift station. Minimum dimension of parking/turn around area hammerhead tee with each three legs thirty (30) feet long minimum twenty-five (25) feet wide, three (3) inches thick. Grade paved surface to drain away from lift station slab.
3. Alternate access and parking/turn around designs will be considered on a site, specific basis.
4. Three Phase power required unless phase requirements are not applicable or feasibly available.



SEWER PUMP STATION NOTES

1. Pump station shall be constructed and installed in accordance with these Notes and District Ordinances, and standard editions of National Electrical Code (NEC), and National Electric Manufacturers Association (NEMA), and other applicable standards. When discrepancies exist between these documents, these Notes take priority, followed by District Specifications, Circular 555C2 and then NEMA.
2. Pump station shall be capable of handling 100 gpm at 100 ft. emergency electrical power system, 500 gpm at 100 ft. for normal operation, if an electrical power system is provided. The pump station shall be installed in an area free from overhead power lines, and shall be protected by a 1000 amp circuit breaker. The pump station shall be protected by a 1000 amp circuit breaker. The pump station shall be protected by a 1000 amp circuit breaker. The pump station shall be protected by a 1000 amp circuit breaker.
3. Pumping equipment shall be suitable for use in a wet location and shall be suitable for use in a wet location. The pump station shall be protected by a 1000 amp circuit breaker. The pump station shall be protected by a 1000 amp circuit breaker. The pump station shall be protected by a 1000 amp circuit breaker. The pump station shall be protected by a 1000 amp circuit breaker.
4. SCADA & alarm system shall be integrated into the District's existing alarm system. The alarm system shall be capable of handling 100 gpm at 100 ft. emergency electrical power system, 500 gpm at 100 ft. for normal operation, if an electrical power system is provided. The pump station shall be installed in an area free from overhead power lines, and shall be protected by a 1000 amp circuit breaker. The pump station shall be protected by a 1000 amp circuit breaker. The pump station shall be protected by a 1000 amp circuit breaker. The pump station shall be protected by a 1000 amp circuit breaker.

Force Main Notes

1. Force main shall be constructed and installed in accordance with these Notes and District Ordinances, and standard editions of National Electrical Code (NEC), and National Electric Manufacturers Association (NEMA), and other applicable standards. When discrepancies exist between these documents, these Notes take priority, followed by District Specifications, Circular 555C2 and then NEMA.
2. Force main shall be capable of handling 100 gpm at 100 ft. emergency electrical power system, 500 gpm at 100 ft. for normal operation, if an electrical power system is provided. The pump station shall be installed in an area free from overhead power lines, and shall be protected by a 1000 amp circuit breaker. The pump station shall be protected by a 1000 amp circuit breaker. The pump station shall be protected by a 1000 amp circuit breaker. The pump station shall be protected by a 1000 amp circuit breaker.

SITE REQUIREMENTS

1. Site shall be suitable for construction and installation of the pump station and force main. The site shall be free from overhead power lines, and shall be protected by a 1000 amp circuit breaker. The site shall be protected by a 1000 amp circuit breaker. The site shall be protected by a 1000 amp circuit breaker. The site shall be protected by a 1000 amp circuit breaker.
2. The site shall be suitable for construction and installation of the pump station and force main. The site shall be free from overhead power lines, and shall be protected by a 1000 amp circuit breaker. The site shall be protected by a 1000 amp circuit breaker. The site shall be protected by a 1000 amp circuit breaker. The site shall be protected by a 1000 amp circuit breaker.

FORCE MAIN NOTES

1. Force main shall be constructed and installed in accordance with these Notes and District Ordinances, and standard editions of National Electrical Code (NEC), and National Electric Manufacturers Association (NEMA), and other applicable standards. When discrepancies exist between these documents, these Notes take priority, followed by District Specifications, Circular 555C2 and then NEMA.
2. Force main shall be capable of handling 100 gpm at 100 ft. emergency electrical power system, 500 gpm at 100 ft. for normal operation, if an electrical power system is provided. The pump station shall be installed in an area free from overhead power lines, and shall be protected by a 1000 amp circuit breaker. The pump station shall be protected by a 1000 amp circuit breaker. The pump station shall be protected by a 1000 amp circuit breaker. The pump station shall be protected by a 1000 amp circuit breaker.

CARVER ENGINEERING, INC.
 Consulting Engineers
 1995 Third Avenue East
 Kelowna, BC V1Y 1A2
 Tel: 250-860-8888



Revised(s)	
Drawn by	T.M. Alford
Checked by	Ad
Date	04/18/04
Project Number	10-10-10
Sheet Title	SEWER PUMP STATION SITE PLAN AND DETAILS STANDARD DRAWING
Project File	
Sheet No.	LS-1

TESTING PUMP SYSTEMS & CONVEYANCE

HDPE PIPE – MAINS / 200 PSI POLY – SERVICES

TEST FOR WATER TIGHTNESS - MAINS

After construction, all pressure mains and laterals shall be tested for water tightness in accordance with Montana Public Works Standard Specifications Part 3.4. Additionally, Flathead County Water & Sewer District No.1 – Evergreen requires a hydrostatic test at 100 PSI as measured at the low point in the piping segment. The force main shall hold the 100 PSI pressure for a period of 2 hours.

TESTING OF SEWER PRESSURE SERVICES

All sewer pressure service lines shall be subjected to a hydrostatic test. The hydrostatic test shall be conducted at a test pressure of 100 PSI. There shall be no allowable drop in pressure in during a fifteen (15) minute period starting 5 minutes after measuring device (Pressure Gage).

New pressure services shall be tested in two segments: The first segment shall be from the force main to the curb stop and the second segment shall be tested from the curb stop to discharge connection attaching to discharge side of sewage pump.

PUMP CHAMBERS

Pump chambers shall be filled with water to the bottom of inlet pipe and held for a period of thirty (30) minutes maintaining level without drop.

RESULTS

All test results shall demonstrate that the systems have passed the required standards above. If corrective actions are required to achieve a passing test, those actions should be described, and the resulting positive test noted. For private sewer systems connecting to District facilities, the tests must be performed and signed off by the certified system operator or an independent qualified inspector approved in advance by the District. All test results are subject to review and approval by the District prior to the time the system is operational.