

RESOLUTION 2020-16**RESOLUTION OF THE BOARD OF DIRECTORS OF
TRIVIEW METROPOLITAN DISTRICT CONCERNING THE CONSTRUCTION,
USE AND MAINTENANCE OF PRIVATE SEWAGE LIFT STATIONS
AND RELATED INFRASTRUCTURE**

WHEREAS, Triview Metropolitan District (“District”) has determined that it is appropriate to adopt, amend and supplement portions of its existing rules and regulations concerning the District’s policy in regards to the construction, use and maintenance of private sewage lift stations and associated infrastructure for delivery of raw sewage from residences and commercial buildings receiving wastewater services from the District, where grade or project design render gravity delivery infeasible;

WHEREAS, pursuant to C.R.S. §32-1-1001(1)(h),(j) and (k) and §32-1-1004(3) this Board has the authority on behalf of the District to fix and from time to time increase rates, charges for services or facilities furnished by the District within and outside District boundaries; and,

WHEREAS, pursuant to C.R.S. §32-1-1001(m) and (n), this Board has the power to adopt, amend and enforce bylaws and rules and regulations for the District that are not in conflict with the constitution and laws of the State of Colorado, for the carrying on of the business of the District, and may exercise all rights and powers necessary or incident to or implied from its specific powers; and

WHEREAS, the District has considered anticipated short and long-term expenses associated with the construction, use and maintenance of private sewage lift stations, as well as the potential liabilities associated with the use thereof, and determined it appropriate to adopt specific policies and resolutions as to the construction, use and maintenance of the same for any customer of the District for wastewater services.

NOW, THEREFORE, pursuant to the District’s authority and the power under C.R.S. §32-1-1001 and §32-1-1004, the following policy is adopted in regards to the District’s requirements, policies, rules and regulations for the construction, use and maintenance of private sewage lift stations, only when necessary in order to facilitate delivery of raw sewage to District-owned infrastructure for treatment by the District, forming a portion of the District’s rules and regulations.

1. Design Criteria For Private Pump Systems.

1.1. Private Pump Systems (a/k/a private sewage lift stations) may be used only when a conventional gravity Wastewater System is not feasible. Private Pump Systems in virtually all instances will pump into a Pressurized Wastewater Service Line. If the vertical design of the District-owned wastewater main is at an elevation that may prohibit

gravity wastewater service to certain lots of a development, then the Design Engineer shall submit a drawing that shows the elevation of the Wastewater Service Line stub. Following the installation of a Private Pump System, a “Notice of Private Wastewater Pump System”, in the form attached as Exhibit A hereto, shall be recorded with the County Clerk and Recorder’s Office and a copy provided to Triview Metropolitan District. Due to the inability of Private Pump Systems to pump for extended periods of time, swimming pools or other large water storage facilities, shall not discharge to Private Pump Systems.

1.2. Private Pump System Design. The owner of any property seeking to utilize any Private Pump System shall supply to the District, a minimum of 60 days in advance of installation of such Private Pump System, a detailed analysis of system design, layout, and sizing information for pumps and integration to the District’s pressurized wastewater service line. Two copies of such design must be submitted along with the Construction Plans and specifications. The Triview Metropolitan District will accept “E/One” products for Private Pump Systems, though equivalent systems can be submitted for review and may be approved on a case by case basis as long as such alternative system meets the requirements described herein. The Private Pump System shall include the following features at a minimum:

1.2.1. Pump Reservoir. The pump reservoir shall be sized to contain a minimum of one half day of wastewater generation using the District’s average daily design flow. For example, a single family residence shall have enough volume in the pump reservoir to contain:

$$(1 \text{ unit}) \times (2.5 \text{ persons/unit}) \times (65 \text{ gal/person/day}) \times (0.5 \text{ Day}) = 81.25 \text{ gal}$$

The wastewater generation for commercial applications will be reviewed on a case by case basis. The pump reservoir shall also include a level sensor for automatic operation of the pump, a vent, and a check valve on the pump discharge to prevent backflow when the pump is off.

1.2.2. Grinder Pump. The Private Pump System shall be equipped with 1 grinder pump for residential applications, and 2 grinder pumps for commercial applications.

1.2.3. Anti-Flotation Collar. The owner of any property seeking to utilize a Private Pump System, or their licensed contractor shall determine where an anti-flotation collar is required, though the District may, in its sole discretion, require an anti-flotation collar regardless of such owner/contractor determination. Anti-flotation collars shall be designed to counteract buoyancy forces that may be encountered in wet conditions. The anti-flotation collar shall be made of concrete, and where required, the size of the collar shall be designed by the owner/contractor in accordance with the manufacturer’s recommendations, or as prescribed by the District and its consultants.

1.2.4. Pump Reservoir Backfill. The pump reservoir shall be backfilled in accordance with District Standards and Specifications, using backfill material consistent with the materials specified therein. If the District Inspector determines the native soils are not appropriate as a foundation material for the pump reservoir, then foundation material consistent with District Standards and Specifications shall be imported by the owner/contractor for this purpose. The foundation material shall be placed with a minimum thickness of 6 inches and extending 6 inches beyond the outside edge of the pump reservoir, or as determined by the District Inspector.

1.2.5. Electric Panel. All electric panels shall have the capacity to be connected to an alternate power source (generator or other) in the event of an extended power outage, so as to ensure the consistent operation of the Private Pump System and avoid backups in excess of the reservoir capacity.

1.2.6. Control/Alarm Panel. A control panel shall be included to allow manual operation of the Private Pump System in the event of automated failure or excess flows. Such control panel shall include an alarm panel capable of notifying the owner when wastewater in the pump reservoir reaches the high water level alarm set point, and thereby allow manual operation of the pump to potentially prevent damage to the owner's property.

1.3. Installation and Maintenance. Installation and maintenance of all components of any Private Pump System must be performed by a licensed plumber or other appropriate contract consistent with the terms of this Resolution, and consistent with the terms, conditions and requirements of the manufacturers of all material components of the Private Pump System. The District shall be promptly notified of any maintenance required of any Private Pump System, and the District Inspector shall inspect and approve any maintenance or repair prior to allowing such Private Pump System to re-initiate deliveries of wastewater to District infrastructure.

1.4. Pressurized Wastewater Service Lines. This design criteria applies if and when a Private Pump Station serves an entire house, complex or business and is located outside the physical structure of the residence or commercial property. However, all Private Pump Stations, even if within the actual building owner's structure, will not be permitted to deliver water to the District's wastewater collection and treatment system unless such owner has first signed the "Notice of Private Wastewater Pump System", as attached as Exhibit A, hereto. Pressurized Wastewater Service Lines may discharge to a gravity Wastewater Main or a Pressurized Wastewater Main. A Pressurized Wastewater Service Line shall not connect to a Public Force Main. Pressurized Wastewater Service Lines must be constructed of DR11 HDPE. The Pressurized Wastewater Service Line shall be sized by the manufacturer and installed with tracer wire per the District Standards and Specifications. The minimum diameter for a Pressurized Wastewater Service Line shall be 1.25 inches. No Pressurized Wastewater Servicer Line

may be permitted to connect to District-owned infrastructure unless and until all components and connections thereof have been inspected and approved by the District Inspector.

1.4.1. Horizontal and Vertical Alignment. The horizontal and vertical separation criteria shall meet the requirements of the District Standards and Specifications. The Pressurized Wastewater Service Line shall have a minimum of 6 feet of cover.

1.4.2. Connecting to Gravity Wastewater Main. Pressurized Wastewater Service Lines may be connected to a Gravity Wastewater Main with a saddle tap. The connection shall be a minimum of 5 feet from a manhole.

1.4.3. Connecting to a Pressurized Wastewater Main. Pressurized Wastewater Service Lines may be connected to other Pressurized Wastewater Service Lines using a tee connection. All infrastructure downstream of such a connection will be considered a Pressurized Wastewater Main, as described below. Any and all other connections may be reviewed and approved by District on a case by case basis, and all connections of wastewater service lines and associated infrastructure shall be designed by the a licensed engineer, and reviewed and approved by the District's engineer, inspector, or other designee of the District, in writing, prior to construction and installation. When Pressurized Wastewater Service Lines are connected to a Pressurized Wastewater Main, curb stop valves and check valves shall be provided at the property line of each Pressurized Wastewater Service Lines Valves shall be mechanically joined to the Pressurized Wastewater Service Line.

2.0. Pressurized Wastewater Mains. When two or more Pressurized Wastewater Service Lines are combined from different properties, such combined infrastructure shall become a Pressurized Wastewater Main and shall be assigned/transferred to, owned, operated, and maintained by the Triview Metropolitan District. The horizontal location of the Pressurized Wastewater Main shall correspond to the location of gravity Wastewater Mains shown in the District Standards and Specifications.

2.1. Sizing. Pressurized Wastewater Mains will be sized by a licensed engineer based on the flow characteristics of the connecting Private Pump Systems, and shall be reviewed and approved by the District Engineer prior to installation and construction. Sizing should ensure low detention times to minimize septic conditions and hydrogen sulfide (H₂S) generation. Future wastewater connections in the area shall be taken into consideration during sizing.

2.2. Air Relief Valves/Drain Valves on Pressurized Wastewater Mains. Air and vacuum relief valves shall be located by the engineer as necessary along the Pressurized Wastewater Main. Air and vacuum relief valves shall be located in a manhole

no smaller than 4 feet in diameter or in a vault. Drain Valves shall also be located by the engineer at low points along the Pressurized Wastewater Main to facilitate draining, repair, or maintenance of the line.

2.3. Cleanouts. Cleanouts shall be installed for the purpose of flushing the Pressurized Wastewater Main. Cleanouts shall be designed by the manufacturer and placed in the following locations: (a) the upstream end of a Pressurized Wastewater Main; (b) where a Pressurized Wastewater Main connects with another Pressurized Wastewater Main; and (c) every 1,000 linear feet.

2.4. Connection to the Gravity Wastewater System. Pressurized Wastewater Mains shall connect to the gravity Wastewater System at a manhole, and in a manner consistent with the District Standard and Specifications, as well as case by case engineering review and approval.

2.5. Installation. Installation of a Pressurized Wastewater Main must be performed by a Private Pump System manufacturer-certified plumber.

2.6. Hydrostatic Testing. Pressurized Wastewater Mains shall be hydrostatic pressure tested for at least 1 hour at 1.5 times working pressure, but not at a pressure of less than 50 psi. There shall be no loss of pressure during the test. Leakage may be determined by loss-of-pressure, soap solution, chemical indicator, or another method approved by the District. The curb stop for each Pressurized Wastewater Service Line shall be closed during the test to prevent damage to upstream appurtenances. Any other fixtures, devices, or accessories connected to the Combined Pressurized Wastewater Service Line that would be damaged if subjected to the specified test pressure shall be protected during the test. If any leaks are found, they shall be immediately repaired and the test repeated until no leakage is identified.

3. Ownership, Control, Liability and Expense. The Private Pump Systems (a/k/a private sewage lift station) and associated infrastructure described herein are and shall be privately owned by the owner(s) of the properties served, and the ownership of such Private Pump Systems shall continue to run with the land upon the sale of other transfer of such property. Each Private Pump System shall include, but is not limited to, all wastewater service lines and pipes, valves, conduits, pump reservoir, mechanical devices (including the pump and all appurtenances), control panels and any other items which are necessary in order to enable wastewater to be transferred from the Property to a wastewater main owned and maintained by the District. The owner of any property served by a Private Pump System shall be responsible for all cost, expense and responsibility relating to such Private Pump System, including, but not limited to all design, construction, installation, repair, maintenance, and replacement, as well as compliance with all applicable federal and state laws, the Code of the Town of Monument, and all applicable rules and regulations of the Triview Metropolitan District. Such owner shall further be responsible for reimbursement to Triview for the cost and expense of

Triview's consultants in reviewing, considering and potentially approving any such Private Pump System and associated infrastructures. All owners of property serviced by Private Pump System shall, prior to operation of such a system or connection of the same to infrastructure owned and controlled by Triview, agree in writing to the release, discharge, indemnification and to hold harmless the Triview Metropolitan District, the Board of Directors thereof, and the Triview Metropolitan District's officers, directors, employees, consultants and agents, from and against any and all liability for any damages, injuries to the person or property of the undersigned or any third party, causes of action, demands, or actions of whatsoever kind or nature that may arise out of, or are related in any way to, the Private Pump System.

4. Determination by the Board. It is the Board's determination that this policy is reasonably related to the overall safety and operation of District infrastructure and provision of wastewater services, and is necessary for the District to continue to provide reliable wastewater services to all District customers, supply and to recover costs associated therewith, and plan for future expense, and are uniformly made to apply to all of the District's customers.

5. Other Rates and Fees. All other policies and fee regulations of the District not expressly revised by this Resolution shall remain in full force and effect.

6. Enterprise. This Resolution is taken by the District, including as acting through its utility enterprise.

7. Proper Action. This action is taken by the Board at its regular public meeting after all required public notices and postings of the meeting have been made, with a quorum of the Board in attendance and taking proper action thereon.

THEREFORE, the above policies regarding the construction, use and maintenance of Private Pump Stations and associated wastewater infrastructure were established as rules and regulations of the District, and were enacted by the Board of Directors of the District on this 22nd day of October, 2020, to be effective immediately.

Mark Melville, District President

ATTEST:

Marco Fiorito, District Vice President

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EXHIBIT A

Notice of Private Wastewater Pump System

This Notice of Private Wastewater Pump System ("Notice"), date _____, 20__, the receipt of which is acknowledged upon execution of this Notice by _____, as the present owner(s) of the following described real property: _____, El Paso County, Colorado, as reflected on the plat recorded at Reception Number _____ of the Clerk and Recorder of El Paso County, which address is _____, Monument, Colorado 80132 (hereinafter referred to as the "Property").

All parties who now have, or who may hereafter acquire, an interest in the Property, or any portion thereof, are hereby notified that the Private Pump System (a/k/a private sewage lift station), which services the Property, is privately owned by the owner(s) of the Property, and the ownership of such system shall continue to run with the land upon the sale of other transfer of the Property.

The Private Pump System, for purposes of this notice, shall include, but is not limited to, all wastewater service lines and pipes, valves, conduits, pump reservoir, mechanical devices (including the pump and all appurtenances), control panels and any other items which are necessary in order to enable wastewater to be transferred from the Property to a wastewater main owned and maintained by Triview Metropolitan District, a Colorado Special District.

Owner(s) of the Property are collectively responsible for all matters regarding the Private Pump System, including, but not limited to all repairs, maintenance, and compliance with all applicable federal and state laws, the Code of the Town of Monument, and all applicable rules and regulations of the Triview Metropolitan District. The Owner(s) hereby agrees to release, discharge, indemnify and hold harmless the Triview Metropolitan District, the Board of Directors thereof, and the Triview Metropolitan District's officers, directors, employees, consultants and agents, from and against any and all liability for any damages, injuries to the person or property of the undersigned or any third party, causes of action, demands, or actions of whatsoever kind or nature, including all claims and demands for unpaid labor or material relating to the construction of said facilities, that may arise out of, or are related in any way to, the Private Pump System. Nothing contained herein requires the owner(s) of the Property to be responsible for any Triview Metropolitan District wastewater mains, lift stations, or its other appurtenances.

This Notice shall be deemed to run with the land and touch and concern the land.

Executed as of the date first written above.

By: _____

The foregoing instrument was acknowledged before me this _____ day of _____, 20__ by _____.

My Commission Expires: _____

Witness my hand and official seal.

Notary Public: _____