

**STATE OF MISSOURI**  
**DEPARTMENT OF NATURAL RESOURCES**  
**MISSOURI CLEAN WATER COMMISSION**



**CONSTRUCTION PERMIT**

The Missouri Department of Natural Resources hereby issues a permit to:

Jefferson County Public Sewer District  
4629 Yeager Road  
Hillsboro, MO 63050

for the construction of (described facilities):

Weber Hill Terrace/ Warren Woods Sanitary Sewer Improvement Area--See attached.

Permit Conditions:

See attached.

Construction of such proposed facilities shall be in accordance with the provisions of the Missouri Clean Water Law, Chapter 644, RSMo., and regulation promulgated thereunder, or this permit may be revoked by the Department of Natural Resources.

As the Department does not examine structural features of design or the efficiency of mechanical equipment, the issuance of this permit does not include approval of these features.

A representative of the Department may inspect the work covered by this permit during construction. Issuance of a permit to operate by the Department will be contingent on the work substantially adhering to the approved plans and specifications.

This permit applies only to the construction of water pollution control components; it does not apply to other environmentally regulated areas.

June 3, 2020  
Effective Date

  
Edward B. Galbraith, Director, Division of Environmental Quality

June 2, 2022  
Expiration Date

  
Chris Wieberg, Director, Water Protection Program

## **CONSTRUCTION PERMIT**

### **I. CONSTRUCTION DESCRIPTION**

The proposed wastewater collection system will consist of a low pressure sewer system, with grinder pumps at each connection, which will carry raw wastewater to the receiving wastewater treatment facility and will include the following:

- Construction and installation of approximately 13,686 linear feet of 2-inch through 4-inch diameter polyvinyl chloride (PVC) Standard Dimension Ratio (SDR)-21 force main with cleanouts and air release valves, and all necessary appurtenances to make a complete and usable wastewater collection system to serve an estimated 161 homes, with a calculated population equivalent of 592 and an estimated design average flow of 59,200 gallons per day. The project will also include general site work appropriate to the scope and purpose of the project.
- Installation of approximately 161 simplex grinder pump units rated for flows of 700 gpd, with a 70 gallon capacity HDPE tank and all necessary appurtenances to make a complete grinder pump system, as well as approximately 14,500 linear feet of service lines to connect the grinder pump units to the force mains.

These activities will be in the Weber Hill Terrace and Warren Woods subdivisions in the vicinity of Old Gravois Road, Highway 30, and Carol Park Road, just north of House Springs in Jefferson County. The new Sanitary Sewer Improvement Area for Weber Hill Terrace/Warren Woods was established on July 24, 2019. Wastewater collected in the new sanitary sewers will discharge to an existing sewer to be treated at the Jefferson County Public Sewer District Yorktown Wastewater Treatment Facility, Missouri State Operating Permit No. MO-0131024.

The purpose of this construction is to provide a centralized sanitary sewer collection system for the homes in the Weber Hill Terrace and Warren Woods subdivisions. Each individual residence currently has an onsite wastewater treatment system on a lot size that is typically less than an acre. Many of these individual systems are failing or reaching the end of their useful lives.

### **II. CONSTRUCTION PERMIT CONDITIONS**

The permittee is authorized to construct subject to the following conditions:

1. This construction permit does not authorize discharge.
2. All construction shall be in accordance with the plans and specifications submitted by Heneghan & Associates, P.C., on May 7, 2020, which consisted of plans signed and sealed by Seth W. Elliott, P.E. on April 28, 2020, and May 1, 2020, and specifications

signed and sealed by Seth W. Elliott, P.E. on April 28, 2020. The Department approved these plans and specifications on June 3, 2020.

3. Regulation 10 CSR 20-4.040(18)(B)1 requires that projects be publicly advertised, allowing sufficient time for bids to be prepared and submitted. Projects should be advertised at least 30 days prior to bid opening.
4. The Department must be contacted in writing prior to making any changes to the approved plans and specifications that would directly or indirectly have an impact on the capacity, flow, system layout, or reliability of the proposed construction or any design parameter that is addressed by 10 CSR 20-8, in accordance with 10 CSR 20-8.110(11).
5. All changes in contract price or time within the approved scope of work must be by change order in accordance with 10 CSR 20-4.040 (19).
6. State and federal law does not permit bypassing of raw wastewater, therefore steps must be taken to ensure that raw wastewater does not discharge during construction. If a sanitary sewer overflow or bypass occurs, report the appropriate information to the Department's St. Louis Regional Office per 10 CSR 20-7.015(9)(G)
7. Protection of drinking water supplies shall be in accordance with 10 CSR 20-8.125(4)(F), which includes by reference the provisions of 10 CSR 20-8.120(5) and 10 CSR 23-3.010. Separation distance requirements between water mains and sanitary sewers in 10 CSR 60-10.010 are also applicable.
8. In addition to the requirements for a construction permit, 10 CSR 20-6.200 requires land disturbance activities of 1 acre or more to obtain a Missouri state operating permit to discharge stormwater. The permit requires best management practices sufficient to control runoff and sedimentation to protect waters of the state. Land disturbance permits will only be obtained by means of the Department's ePermitting system available online at [dnr.mo.gov/env/wpp/epermit/help.htm](http://dnr.mo.gov/env/wpp/epermit/help.htm).

See [dnr.mo.gov/env/wpp/stormwater/sw-land-disturb-permits.htm](http://dnr.mo.gov/env/wpp/stormwater/sw-land-disturb-permits.htm) for more information.

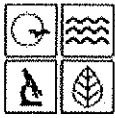
9. A United States Army Corps of Engineers (USACE) permit (404) and a Water Quality Certification (401) issued by the Department or permit waiver may be required for the activities described in this permit. This permit is not valid until these requirements are satisfied. If construction activity will disturb any land below the ordinary high water mark of jurisdictional waters of the U.S. then a 404/401 will be required. Since the USACE makes determinations on what is jurisdictional, you must contact the USACE to determine permitting requirements. You may call the Department's Water Protection Program at 573-751-1300 for more information.

See [dnr.mo.gov/env/wpp/401/](http://dnr.mo.gov/env/wpp/401/) for more information.

10. Upon completion of construction:

- A. The Jefferson County Public Sewer District will become the continuing authority for operation and maintenance of these facilities, except as noted on the plans;
- B. Submit an electronic copy of the as built's if the project was not constructed in accordance with previously submitted plans and specifications; and
- C. Submit the enclosed form Statement of Work Completed to the Department in accordance with 10 CSR 20-6.010(5)(N). When the receiving facility applies for their next operating permit renewal, they will be expected to include updated information about the sanitary sewer collection system on their application.

Ginny Bretzke, P.E.  
Financial Assistance Center, Engineering Unit  
[ginny.bretzke@dnr.mo.gov](mailto:ginny.bretzke@dnr.mo.gov)



MISSOURI DEPARTMENT OF NATURAL RESOURCES  
 WATER PROTECTION PROGRAM  
**APPLICATION FOR CONSTRUCTION PERMIT –  
 SEWER EXTENSION**

FOR DEPARTMENT USE ONLY	
APP NO.	CP NO.
FEE RECEIVED	CHECK NO.
DATE RECEIVED	

**NOTE ► PLEASE READ THE ACCOMPANYING INSTRUCTIONS BEFORE COMPLETING THIS FORM**

**1.0 APPLICATION INFORMATION** (Note – If any of the questions in this section are answered NO, this application may be considered incomplete and returned.)

- 1.1 Is this a Federal/State funded project?  YES  N/A Funding Agency: MDNR Project #:
- 1.2 Has the Department of Natural Resources approved the proposed project's engineering report\*?  
 YES Date of Approval:  NO  N/A
- 1.3 Is a copy of the appropriate plans\* and specifications\* included with this application?  YES  NO
- 1.4 Is a summary of design\* included with this application?  YES  NO
- 1.5 Is the appropriate fee or JetPay confirmation included with this application?  YES  NO  
 See Section 7.0

\* Must be affixed with a Missouri registered professional engineer's seal, signature and date.

**2.0 PROJECT INFORMATION**

2.1 NAME OF PROJECT

Weber Hill Terrace/Warren Woods Sanitary Sewer Improvement Area

ADDRESS	CITY	STATE	ZIP CODE	COUNTY
3680Terrace Dr.	House Springs	MO	63051	Jefferson

2.2 Legal Description: ¼, ¼, NW ¼, Sec. 26, T 43N, R 4E

2.3 Project Components (check all that apply):

- Gravity sewers  Pumping stations  Force mains  Alternative sewer system  Other (Describe below.)

2.4 PROJECT DESCRIPTION

Install 160 individual grinder pumps and approximately 24,200 lineal feet of 1.25, 2, 3, and 4-inch force main and appurtenances. Sewage to discharge into existing 4 ft. diameter manhole with 8-inch effluent.

2.5 DESIGN INFORMATION

A. Population or number of lots to be served by this extension: 160 homes

B. Estimated flow to be contributed by this extension: Design Average Flow: gpd Design Peak Hourly Flow: 9,719 gph

C. Industrial Wastes: Type: N/A Flow: 59,200 gpd

D. Receiving Sewer: Size: 8 inches Capacity: 3,500 gpm

**3.0 PROJECT OWNER**

NAME	TELEPHONE NUMBER WITH AREA CODE	E-MAIL ADDRESS
Jefferson County Public Sewer District	636-797-9900	dbjornstad@jeffcopsd.com

ADDRESS	CITY	STATE	ZIP CODE
PO Box 632	Hillsboro	MO	63050

**4.0 CONTINUING AUTHORITY:** A continuing authority is a company, business, entity or person(s) that will be operating the facility and/or ensuring compliance with the permit requirements. A continuing authority is not, however, an entity or individual that is contractually hired by the permittee to sample or operate and maintain the system for a defined time period, such as a certified operator or analytical laboratory. To access the regulatory requirement regarding continuing authority, 10 CSR 20-6.010(2), please visit <https://s1.sos.mo.gov/cmsimages/adrules/csr/current/10csr/10c20-6.pdf>. A continuing authority's name must be listed exactly as it appears on the Missouri Secretary of State's (SoS's) webpage: <https://bsd.sos.mo.gov/BusinessEntity/BESearch.aspx?SearchType=0>, unless the continuing authority is an individual(s), government, or otherwise not required to register with the SoS.

NAME	TELEPHONE NUMBER WITH AREA CODE	E-MAIL ADDRESS
Same As Above		

ADDRESS	CITY	STATE	ZIP CODE

4.1 A letter from the continuing authority or the Continuing Authority and Receiving Wastewater Treatment Facility Acceptance form, if different than the owner, is included with this application.  YES  NO  N/A

<b>5.0 ENGINEER</b>			
ENGINEER NAME / COMPANY NAME Heneghan and Associates <i>Seth W. Elliott</i>		TELEPHONE NUMBER WITH AREA CODE 618-498-6418	E-MAIL ADDRESS swelliott@heneghanassoc.com
ADDRESS 1004 State Hwy 16	CITY Jerseyville	STATE IL	ZIP CODE 62052
<b>6.0 RECEIVING WASTEWATER TREATMENT FACILITY</b>			
NAME JCPSD Yorktown		TELEPHONE NUMBER WITH AREA CODE 636-797-9900	E-MAIL ADDRESS dbjornstad@jeffcopsd.com
MISSOURI STATE OPERATING PERMIT # MO-0131024		REMAINING CAPACITY (GPD) 48,800 GPD	
6.1 Has the receiving treatment facility agreed to accept the additional wastewater flow? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO			
6.2 A letter from the receiving wastewater treatment facility, if different than the continuing authority, is included with this application. <input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A			
<b>7.0 Application Fee</b>			
<input checked="" type="checkbox"/> Check Number <i>004199</i>		<input type="checkbox"/> JetPay Confirmation Number	
<b>8.0 PROJECT OWNER:</b> I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.			
PROJECT OWNER SIGNATURE <i>Douglas S. Bjornstad</i>			
PRINTED NAME Douglas S. Bjornstad P.E.		DATE 4/15/2019	
TITLE OR COPORATE POSITION District Manager		TELEPHONE NUMBER WITH AREA CODE 636-797-9900	E-MAIL ADDRESS dbjornstad@jeffcopsd.org
Mail completed copy to: MISSOURI DEPARTMENT OF NATURAL RESOURCES WATER PROTECTION PROGRAM P.O. BOX 176 JEFFERSON CITY, MO 65102-0176			