

STATE OF MISSOURI
DEPARTMENT OF NATURAL RESOURCES

MISSOURI CLEAN WATER COMMISSION



CONSTRUCTION PERMIT

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

Griffin Riley Investments, LLC
120 SE 30th Street
Lee's Summit, MO 64082

for the construction of (described facilities):

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 (Department).

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.

April 28, 2015
Effective Date

April 27, 2017
Expiration Date

Sara Parker Pauley, Director, Department of Natural Resources

John Madras, Director, Water Protection Program

CONSTRUCTION PERMIT

COLLECTION SYSTEM:

This project consists of the installation and construction of approximately 3,000 linear feet of 8-inch polyvinyl chloride (PVC) Standard Dimension Ratio (SDR)-26 gravity sewer lines with approximately 14 manholes and all the necessary appurtenances to make a complete and usable wastewater collection system to serve an estimated population equivalent of 196 and an estimated design average flow of 15,360 gallons per day. The project will also include general site work appropriate to the scope and purpose of the project.

These activities will be in the vicinity of the intersection of SW Stoney Creek Drive and SW Whistle Drive in Lee's Summit, Jackson County and discharge to an existing sewer system to be treated at the LBVSD Atherton Wastewater Treatment Facility, Missouri State Operating Permit No. MO-0101087. Mr. David Lilly, P.E., District Engineer, with the Little Blue Valley Sewer District provided an acceptance letter dated April 8, 2015.

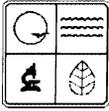
PERMIT CONDITIONS:

1. All construction shall be in accordance with the plans and specifications submitted by Engineering Solutions LLC as follows:
 - Specifications received on April 16, 2015 and signed and sealed by Matthew J. Schlicht, P.E. on April 14, 2015.
 - Plans received on April 16, 2015 and signed and sealed by Matthew J. Schlicht, P.E. as follows: sheets C.400 through C.405 dated 4/14/2015.
2. 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 wastewater treatment facilities or any design parameter that is addressed by 10 CSR 20-8, in accordance with 10 CSR 20-8.110(8).
3. 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 Kansas City Regional Office per 10 CSR 20-7.015(9)(E)2.
4. This construction permit is invalid for projects required to comply with the requirements contained in 10 CSR 20-4, "Grants and Loans".
5. Protection of drinking water supplies shall be in accordance with 10 CSR 20-8.120(10). "There shall be no physical connections between a public or private potable water supply system and a sewer, or appurtenance thereto which would permit the passage of any wastewater or polluted water into the potable supply. No water pipe shall pass through or come in contact with any part of a sewer manhole."

- A. Sewers in relation to water works structures shall meet the requirements of 10 CSR 23-3.010 with respect to minimum distances from public water supply wells or other water supply sources and structures.
 - B. Sewer mains shall be laid at least 10 feet horizontally from any existing or proposed water main. The distances shall be measured edge-to-edge. In cases where it is not practical to maintain a 10 foot separation, the department may allow a deviation on a case-by-case basis, if supported by data from the design engineer. Such a deviation may allow installation of the sewer closer to a water main, provided that the water main is in a separate trench or on an undisturbed earth shelf located on either side of the sewer and at an elevation so the bottom of the water main is at least 18 inches above the top of the sewer. If it is impossible to obtain proper horizontal and vertical separation as described above for sewers, the sewer must be constructed of slip-on or mechanical joint pipe or continuously encased and be pressure tested to 150 pounds per square inch to assure water tightness.
 - C. Manholes shall be located with the top access at or above grade level.
 - D. Manholes should be located at least 10 feet horizontally from any existing or proposed water main.
 - E. Sewers crossing water mains shall be laid to provide a minimum vertical distance of 18 inches between the outside of the water main and the outside of the sewer. This shall be the case where the water main is either above or below the sewer. The crossing shall be arranged so that the sewer joints will be equidistant and as far as possible from the water main joints. Where a water main crosses under a sewer, adequate structural support shall be provided for the sewer to maintain line and grade. When it is impossible to obtain proper vertical separation as stipulated above, one of the following methods must be specified:
 - 1) The sewer shall be designed and constructed equal to the water pipe and shall be pressure tested to assure water tightness prior to backfilling; or
 - 2) Either the water main or sewer line may be continuously encased or enclosed in a watertight carrier pipe which extends 10 feet on both sides of the crossing, measured perpendicular to the water main. The carrier pipe shall be of materials approved by the department for use in water main construction.
6. In addition to the requirements for a construction permit, 10 CSR 20-6.200 requires land disturbance activities of one 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 may only be obtained by means of the department's ePermitting system available online at www.dnr.mo.gov/env/wpp/epermit/help.htm. See www.dnr.mo.gov/env/wpp/stormwater/sw-land-disturb-permits.htm for more information.

7. A United States (U.S.) Army Corps of Engineers (COE) 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 COE makes determinations on what is jurisdictional, you must contact the COE to determine permitting requirements. You may call the department's Water Protection Program at 573-751-1300 for more information. See www.dnr.mo.gov/env/wpp/401/ for more information.
8. In accordance with 10 CSR 20-6.010(6)(B), submit the enclosed form Application for Letter of Authorization – Sewer Extension to the department following completion of construction. Submit an electronic copy of the as-built drawings with this form if the project was not constructed in accordance with previously submitted plans and specifications.
9. Upon completion of construction, the City of Lee's Summit will become the continuing authority for operation, maintenance, and modernization of these facilities.

Stephen P. Busch, P.E.
Engineering Section
steve.busch@dnr.mo.gov



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

APR 15 2011

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: _____ 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 included with this application? (See instructions for appropriate fee.) YES NO

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

2.0 PROJECT INFORMATION

2.1 NAME OF PROJECT

The Reserve at Stoney Creek

ADDRESS	CITY	STATE	ZIP CODE	COUNTY
	Lee's Summit	MO	64082	Jackson

2.2 Legal Description: ¼, NE ¼, NW ¼, Sec. 36, T 47N, R 32W

2.3 Project Components (check all that apply):

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

2.4 PROJECT DESCRIPTION

Sanitary Sewer Extension of an eight inch gravity system to serve 53 single family lots
 Will include the following:
 3,001.97 L. F. of 8"
 With 14 manholes.

2.5 DESIGN INFORMATION

- A. Population or number of lots to be served by this extension: 53 lots
- B. Estimated flow to be contributed by this extension: Design Average Flow: 620 gpd Design Peak Hourly Flow: 620 gpd
- C. Industrial Wastes: Type: _____ Flow: _____ gpd
- D. Receiving Sewer: Size: 8 inches Capacity: 400 gpm

3.0 PROJECT OWNER

NAME	TELEPHONE NUMBER WITH AREA CODE	E-MAIL ADDRESS
Griffin Riley Investments, LLC	(816) 246-6700	
ADDRESS	CITY	STATE
120 SE 30th Street	Lee's Summit	MO
		ZIP CODE
		64082

4.0 CONTINUING AUTHORITY: Permanent organization that will serve as the continuing authority for the operation, maintenance and modernization of the wastewater collection system.

NAME	TELEPHONE NUMBER WITH AREA CODE	E-MAIL ADDRESS
City of Lee's Summit (David Lohe)	(816) 969-1800	david.lohe@cityofls.com
ADDRESS	CITY	STATE
220 SE Green Street	Lee's Summit	MO
		ZIP CODE
		64063

4.1 A letter from the continuing authority, if different than the owner, is included with this application. YES NO N/A

5.0 ENGINEER

ENGINEER NAME / COMPANY NAME	TELEPHONE NUMBER WITH AREA CODE	E-MAIL ADDRESS
Matt Schlicht	(816) 623-9888	mschlicht@es-kc.com
ADDRESS	CITY	STATE
50 SE 30th Street	Lee's Summit	MO
		ZIP CODE
		64082

6.0 RECEIVING WASTEWATER TREATMENT FACILITY		
NAME The City of Lee's Summit	TELEPHONE NUMBER WITH AREA CODE (816) 939-1800	E-MAIL ADDRESS david.lohe@cityofls.com
MISSOURI STATE OPERATING PERMIT # MO 0101087	REMAINING CAPACITY (GPD) 27 MGD	
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 checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A		
7.0 PROJECT OWNER: I hereby certify that I am familiar with the information contained in this application and to the best of my knowledge and belief such information is true, complete, and accurate, and if granted this permit, I agree to abide by the Missouri Clean Water Law and all rules, regulations, orders, and decisions, subject to any legitimate appeal available to applicant under Missouri Clean Water Law.		
PROJECT OWNER SIGNATURE		
PRINTED NAME Fred Delibero		DATE
TITLE OR COPORATE POSITION Chief Executive Office	TELEPHONE NUMBER WITH AREA CODE (816) 246-6700	E-MAIL ADDRESS fred@summitcustomhomeskc.com
Mail completed copy to: MISSOURI DEPARTMENT OF NATURAL RESOURCES WATER PROTECTION PROGRAM P.O. BOX 176 JEFFERSON CITY, MO 65102-0176		



LITTLE BLUE VALLEY SEWER DISTRICT

H.A. Jones Administration Building
21101 East 78 Highway
Independence, MO 64057
(816) 796-7660
FAX: (816) 796-5910

Atherton Wastewater Treatment Plant
21208 East Old Atherton Road
Independence, MO 64058
(816) 796-9191
FAX: (816) 796-3500

April 8, 2015

Matthew J. Schlicht
Engineering Solutions
50 SE 30th Street
Lee's Summit, MO 64082

Re: The Reserve At Stoney Creek 1st Plat – Lots 1-53, Lee's Summit, Jackson
County, MO

Dear Mr. Schlicht,

This letter is to inform you that the Little Blue Valley Sewer District has reviewed the drawings for the above referenced project. The new sewer lines associated with this work will connect to an existing City of Lee's Summit sanitary sewer which feeds into the District's interceptor sewer to be treated at the District's Atherton Wastewater Treatment Plant. The District agrees to receive and treat the domestic wastewater from the proposed sewer.

The Little Blue Valley Sewer District Atherton Wastewater Treatment Plant permit number is MO 0101087. The plant is rated for 52 million gallons per day (MGD). The average dry weather flow is 30 MGD, which gives an average excess capacity of 22 MGD.

If you have any further questions, please give me a call at (816) 796-9191 Ext. 216.

Sincerely,

David Lilly, PE
District Engineer

Cc, Lisa O'Dell, LBVSD
file

MISSION:

"Our mission is to provide excellent wastewater services which protect the public health and improve the environment of our region."

VISION:

"The Little Blue Valley Sewer District will be a strong partner in regional planning and resource sharing, anticipating and Responding to both environmental and economic needs"



LEE'S SUMMIT MISSOURI

April 6, 2015

Missouri Department of Natural Resources
P.O. Box 176
Jefferson City, MO 65102

Re: Application for Construction Permit – Sewer Extension
The Reserve at Stony Creek 1st Plat

To Whom It May Concern:

The City of Lee's Summit has received a development proposal dated March 25, 2015 for the above-referenced project. This project requires the extension of public sanitary sewer mains. The enclosed Application for Construction Permit requests this extension.

The following information is provided in support of this application:

1. **Justification:** The extension is required to serve the proposed project. The site is within the Lee's Summit corporate boundaries and is, therefore, eligible for sanitary sewer service.
2. **Certification of Compliance:** The proposed system has been designed in accordance with the City of Lee's Summit's current design criteria. The design engineer and contractor will comply with all applicable laws, regulations, ordinances, and codes bearing on the sanitary sewer extension.
3. **Continuing Authority:** The City of Lee's Summit – Water Utilities Department shall serve as the continuing authority for the operation, maintenance, and modernization of the facility for which this application is made.

If you have any questions, please contact me at (816) 969-1800 or by e-mail at david.lohe@cityofls.net. If you have technical questions relating to the engineering plans, please contact Mr. Matt Schlicht, P.E., of Engineering Solutions. at (816) 623-9888. Thank you for your assistance in processing this application.

Sincerely,

David Lohe, P.E.
Supervisory Engineer

