STATE OF MISSOURI

DEPARTMENT OF NATURAL RESOURCES

MISSOURI CLEAN WATER COMMISSION

GENERAL PERMIT for SEWER EXTENSION CONSTRUCTION

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

Construction Permit ID:	MOGC00035
Title of Project:	Stone Ridge Canyon - Phase 6
Owner:	LK PRoperties II LLLP
Address:	P.O. Box 340 St. Peters, MO 63376

The project will also include general site work appropriate to the scope and purpose of the project and will include all the necessary appurtenances to make a complete and usable collection system. The construction of this project will be in the vicinity of the county below and discharge to Receiving Permit ID below:

County: St. Charles Receiving Permit ID: MO0093599

for the construction of (described construction project):

Construction of approximately 7,196 lf of 8-inch PVC SDR-35 with approximately 42 manholes to serve 114 single family homes with a design average flow of 42,180 gpd.

This project is in the vicinity of Pine Creek Drive, Mule Creek Drive, and Lost Canyon Drive in the city of Wentzville, St. Charles County and discharges to an existing collection system with waste to be treated at Wentzville Water Reclamation Center, MO-0093599. Mr. Devon Dezort, Civil Engineer, with city of Wentzville Public Works Department provided an acceptance letter dated July 16, 2015.

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

August 24, 2015
Issue Date

Sara Parker Pauley, Director
Department of Natural Resources

August 23, 2017
Expiration Date

John Madras
Director, Water Protection Program

APPLICABILITY

1. This permit authorizes the construction of gravity sewer extensions, force mains, and lift stations. Storage basins, considered part of the collection system, are also included. Earthen basins are not included under this General Sewer Extension Construction permit.

2. A Sewer Extension Construction Permit may be required by the department due to compliance and enforcement actions.

3. This permit does not apply to:
   A. Earthen storage basins;
   B. Projects located within an Approved Sewer Program. These include the City of Blue Springs, City of Columbia, City of Kansas City, City of Jefferson City, City of Joplin, City of Lebanon, City of Springfield, City of St. Peters, Duckett Creek Sewer District, and Metropolitan St. Louis Sewer District;
   C. Projects funded by the Department of Natural Resources;
   D. Projects that substantially deviate from the Design Guides in 10 CSR 20-8; and
   E. Exempt projects unless requested by the applicant or required by enforcement.

PREREQUISITES:

1. The General Sewer Extension Construction Permit application, appropriate fee, and a schedule for construction with the date on which construction will begin and anticipated completion date.

2. The engineering report, as required, plans and specifications each signed and sealed by a professional engineer registered in the State of Missouri. A Summary of Design is an acceptable substitute for the engineering report required by this permit prerequisite.

3. The Design Certification form signed and sealed by a professional engineer registered in the State of Missouri certifying the design of the system was done in accordance with 10 CSR 20-6 and 10 CSR 20-8.

4. A statement from the continuing authority was received accepting the wastewater for treatment.

5. A statement from the continuing authority was received accepting the responsibility for operation, maintenance, and modernization of these facilities

PERMIT CONDITIONS:

1. Contact the department's appropriate regional office 48 hours prior to starting construction. Contact information can be found at http://dnr.mo.gov/regions/regions.htm.

2. This permit authorizes the activities and scope of work detailed in the plans and specifications submitted with the request.

3. The construction must be in accordance with the design certification stating the plans and specifications comply with 10 CSR 20-6 and 10 CSR 20-8.

PERMIT CONDITIONS: (continued)

4. 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 regional office per 10 CSR 20-7.015(9)(E)2.

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 ten feet (10') 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 ten foot (10') 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 ten feet (10') 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 ten feet (10') 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.

PERMIT CONDITIONS: (continued)

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 will 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. If this project eliminates a wastewater treatment facility, then a full closure plan shall be submitted to the department's appropriate regional office for review and approval of any permitted wastewater treatment system being replaced. In accordance with 10 CSR 20-6.010(12), the closure plan must meet the requirements outlined in Standard Conditions Part III, Section I, of the Missouri State Operating Permit. Closure shall not commence until the submitted closure plan is approved by the department. Form J – Request for Termination of a State Operating Permit, shall be submitted to the department's appropriate Regional Office for termination of any existing Missouri State Operating Permit, once closure is completed in accordance with the approved closure plan.

9. Submit a Statement of Work Completed Form to the department following completion of construction. Submit an electronic copy of the as built plans if the project was not constructed in accordance with previously submitted plans and specifications.

MISSOURI DEPARTMENT OF NATURAL RESOURCES
WATER PROTECTION PROGRAM

APPLICATION FOR CONSTRUCTION PERMIT SEWER EXTENSION

RECEIVED
JUL 28 2015
Water Protection Program

FOR DEPARTMENT USE ONLY	
APP NO.	CP NO.
FEE RECEIVED 300.00	CHECK NO. 1342
DATE RECEIVED 7/28/15	JS.

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
Stone Ridge Canyon Phase 6

ADDRESS	CITY	STATE	ZIP CODE	COUNTY
Mule Creek Drive	Wentzville	MO	63385	St. Charles

2.2 Legal Description: ¼, ¼, ¼, Sec. 13 , T 47N , R 1E

2.3 Project Components (check all that apply):
☑ Gravity sewers ☐ Pumping stations ☐ Force mains ☐ Alternative sewer system ☐ Other (Describe below.)

2.4 PROJECT DESCRIPTION
43 manholes
7,330 Linear Feet of 8" PVC sewer main

2.5 DESIGN INFORMATION
A. Population or number of lots to be served by this extension: 114 residential lots
B. Estimated flow to be contributed by this extension: Design Average Flow: 42,180 gpd Design Peak Hourly Flow: gph
C. Industrial Wastes: Type: Flow: gpd
D. Receiving Sewer: Size: 8 inches Capacity: 543 gpm

3.0 PROJECT OWNER

NAME	TELEPHONE NUMBER WITH AREA CODE	E-MAIL ADDRESS
LK Properties II LLLP	(636) 397-4471	tomg52@aol.com

ADDRESS	CITY	STATE	ZIP CODE
PO Box 340	St. Peters	MO	63376

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 Wentzville	(636) 327-4174	

ADDRESS	CITY	STATE	ZIP CODE
2355 Mette Road	Wentzville	MO	63385

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
Karl Schoenike / Pickett, Ray, and Silver, Inc.	(636) 397-1211	kschoenike@prs3.com

ADDRESS	CITY	STATE	ZIP CODE
22 Richmond Center Court	St. Peters	MO	63376

6.0 RECEIVING WASTEWATER TREATMENT FACILITY		
NAME Wentzville Water Reclamation Center	TELEPHONE NUMBER WITH AREA CODE (636) 327-4174	E-MAIL ADDRESS
MISSOURI STATE OPERATING PERMIT # MO-0093599	REMAINING CAPACITY (GPD) -197,531	
6.1 Has the receiving treatment facility agreed to accept the additional wastewater flow? ☑ YES ☐ NO		
6.2 A letter from the receiving wastewater treatment facility, if different than the continuing authority, is included with this application. ☑ YES ☐ NO ☐ N/A		
7.0 PROJECT OWNER: I hearby 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 Tom Glosier		
PRINTED NAME Tom Glosier		DATE 7-21-15
TITLE OR COPORATE POSITION	TELEPHONE NUMBER WITH AREA CODE	E-MAIL ADDRESS

Mail completed copy to:

MISSOURI DEPARTMENT OF NATURAL RESOURCES
WATER PROTECTION PROGRAM
P.O. BOX 176
JEFFERSON CITY, MO 65102-0176

CITY OF WENTZVILLE
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
200 E. FOURTH STREET
WENTZVILLE, MO 63385

July 16, 2015

Mr. Jeffrey Schroer
LK Porperties II, LLC
PO Box 340
St. Peters, MO 63385

Project: **Stone Ridge Canyon Phase 6 - Improvements**
Project Number: **ENG- 2015 – 021A**

Dear Mr. Schroer,

The City of Wentzville has approved the improvement plans for the above referenced project. Two (2) sets of plans, marked approved, are being returned to your Consultant, for their further use.

The wastewater plans at the above referenced location have been reviewed and meet city standards. Wastewater capacities are available from the City of Wentzville. The City of Wentzville will act as the continuing authority for acceptance and treatment of the sanitary sewage and maintenance of the public mains.

The available treatment capacity at the Wentzville Water Reclamation Center is -197,531 gallons per day of a total treatment capacity of 6.4 MGD (MO-0093599). The sanitary flows for this project were accounted for in a previous approval. The numbers for available capacity are a planning tool used by the City of Wentzville and the Missouri Department of Natural Resources. The negative value does not represent actual capacity deficiency at this time, but is the amount of actual available capacity of the Wentzville Water Reclamation Center less the committed lateral connections. The City of Wentzville continues to track treatment capacity versus committed lateral connections, in cooperation with the Missouri Department of Natural Resources, to insure that adequate measures are in place to allow for planned growth in the Community. However, regardless as to the available capacity indicated above, the City cannot guarantee that there will be capacity should actual conditions significantly differ from our projections and estimates.

The water plans at the above referenced location have been reviewed and meet city standards. Water capacities are available from the City of Wentzville and the City of Wentzville will own, operate and maintain the public mains installed under this permit.

This letter is to notify you that this approval, the issuance of a Construction Permit, and the start of any construction, is contingent upon the following:

- Obtain a MoDNR Construction permit for the water main extension and sanitary sewer extension.
- The Engineer's Cost Estimate submitted by Pickett, Ray and Silver on June 15, 2015 in the total amount **$1,789,175.82** is approved. An escrow agreement of **$107,138.00** to guarantee the installation and maintenance of the silt and erosion measures necessary for this site improvement must be submitted prior to being issued a construction permit.
- Prior to a Plat of this property an escrow agreement in the amount of **$1,613,700.82** will be required This escrow consists of 100% of public improvements and erosion control measures as well as 5% of all other items contained in the cost estimate received from Pickett, Ray and Silver dated June 15, 2015.
- A pre-construction meeting must be scheduled prior to beginning construction. To request a pre-construction meeting please contact the Engineering Division at 636-639-2054.
- The construction permit will be issued at the pre-construction, pending the escrow agreement for erosion control measures. At that time the construction permit fee of **$24,189.55** is required. This amount is based on 1 ½% of the submitted cost estimated for public infrastructure which was $1,612,636.82.

If you have any additional comments or questions, please contact me at 636-639-2054 or at devon.dezort@wentzvillemo.org.

Sincerely,

Devon Dezort
Civil Engineer

cc: File

Pickett, Ray and Silver
Attn: Karl Schoenike, PE
22 Richmond Center Court
St. Peters, MO 63376

Scott Shipman
St. Charles County Assessor
201 N. Second Street
St. Charles, MO 63301

PICKETT, RAY & SILVER, INC.

CIVIL ENGINEERING, LAND SURVEYING & LAND PLANNING SERVICES
22 Richmond Center Court, St. Peters, Missouri 63376 Phone - 636-397-1211 Fax - 636-397-1104

LETTER OF TRANSMITTAL

Project Job Number: 95228.KAPD.00R

Project Job Name: Stone Ridge Canyon Phase 6

Sanitary Extension Permit

Transmittal Date: July 22, 2015

Sent Via: Mail

Sent To: Missouri Department of Natural Resources
Water Protection Program
Public Drinking Water Branch
1101 Riverside Drive
Jefferson City, MO 65101

Received by:

Date and Time Received:

Description: 1 - Approved Set of Improvement Plans
1 - Letter of Acceptance from Wentzville
1 - Construction Permit Application
1 - Check for $300

narks:

copy to" required or

. Jeffrey Schroer

Audrey

Signed by: