



STATE OF MISSOURI
DEPARTMENT OF NATURAL RESOURCES

Jeremiah W. (Jay) Nixon, Governor • Sara Parker Pauley, Director

www.dnr.mo.gov

October 16, 2013

Mr. David Barth
Greenfield Investments, LLC
6014 N. Nine Highway
Parkville, MO 64152

RE: AP16563 Bella Ridge First Plat PCRSD Sewer Extension – KC, Westside Wastewater Treatment Plant, MO-0024929, Construction Permit No. CPSE00846

Dear Mr. Barth:

The Missouri Department of Natural Resources' Water Protection Program has reviewed and approved the plans and specifications submitted by Aylett Survey and Engineering Company for Greenfield Investments, LLC. Please find enclosed Construction Permit No. CPSE00846 and one (1) set of approved plans and specifications.

This permit will terminate 18 months from the date of issuance. In accordance with 10 CSR 20-6.010(4)(G), the Department may grant an extension only one (1) time. If you believe that an extension is necessary, you must submit a request and a justification in writing for the extension at least 30 days prior to the permit expiration date.

Nothing in this permit removes any obligations to comply with county or other local ordinances or restrictions.

If you were adversely affected by this decision, you may appeal to have the matter heard by the Administrative Hearing Commission. To appeal, you must file a petition with the Administrative Hearing Commission within 30 days after the date this decision was mailed or the date it was delivered, whichever date was earlier. If any such petition is sent by registered mail or certified mail, it will be deemed filed on the date it is mailed. If it is sent by any method other than registered mail or certified mail, it will be deemed filed on the date it is received by the Administrative Hearing Commission.

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If you have any questions concerning this matter, please contact Ms. Cynthia Smith, P.E., of the Water Protection Program, at 573-522-9723 or Missouri Department of Natural Resources, Water Protection Program, P.O. Box 176, Jefferson City, MO 65102-0176.

Thank you for your efforts to help ensure clean water in Missouri.

Sincerely,

WATER PROTECTION PROGRAM



Byron F. Shaw, Jr., P.E.
SRF Engineering Unit Chief

BFS:csc

Enclosures

- c: Mr. Wilbur M. Souders, P.E., Aylett Survey and Engineering Company
Mr. Dan Koch, Executive Director, Platte County Regional Sewer District
Mr. Terry Leeds, Director of Water Services, City of Kansas City
Mr. Scott Honig, P.E., Kansas City Regional Office
Ms. Joan Doerhoff, Water Protection Program, Compliance and Enforcement Section
Ms. Cynthia Smith, P.E., Water Protection Program, Financial Assistance Center

STATE OF MISSOURI
DEPARTMENT OF NATURAL RESOURCES

MISSOURI CLEAN WATER COMMISSION



CONSTRUCTION PERMIT

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

Greenfield Investments, LLC
6014 N. Nine Highway
Parkville, MO 64152

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).

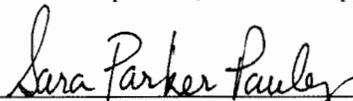
As the Department does not examine structural features of design or the efficiency of mechanical equipment, the issuance of this permit does not include approval of these features.

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.

October 16, 2013
Effective Date

March 15, 2015
Expiration Date


Sara Parker Pauley, Director, Department of Natural Resources


Director, Water Protection Program

CONSTRUCTION PERMIT

COLLECTION SYSTEM:

This project consists of the installation and construction of approximately 1,079 linear feet (lf) of eight-inch (8") polyvinyl chloride (PVC) Standard Dimension Ratio (SDR)-26 gravity sewer lines with six (6) manholes and approximately 179 lf of three-inch (3") and 462 lf of two-inch (2") high density polyethylene (HDPE) DR-11 low pressure sewer force main with cleanouts and air release valves, and all necessary appurtenances to make a complete and usable wastewater collection system. Progressive cavity grinder pumps, with a maximum delivery rate of 11 gpm, will be installed in the low pressure sewer system by others at a later date. The project will serve 32 lots with an estimated design flow 10,773 gallons per day. The project will also include general site work appropriate to the scope and purpose of the project.

These wastewater facilities will be in the vicinity of Northwood Road at NW 48th Street in the city of Riverside, MO, Platte County, and discharge to an existing sewer system and be treated at the KC Westside Wastewater Treatment Plant, Missouri State Operating Permit No. MO-0024929.

PERMIT CONDITIONS:

1. All construction shall be in accordance with the plans and specifications submitted by Aylett Survey and Engineering Company on September 28, 2013 and approved by the Department on October 16, 2013.
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 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 should be located at least ten feet (10') horizontally from any existing or proposed water main.
 - D. 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 (1) 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.

6. In addition to the requirements for a construction permit, 10 CSR 20-6.200 requires land disturbance activities of one (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. Starting September 1, 2012, 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. 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 with this form.
9. Upon completion of construction, the Platte County Regional Sewer District will become the continuing authority for operation, maintenance, and modernization of these facilities.

RECEIVED

(A) 9/27



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

SEP 23 2013

FOR DEPARTMENT USE ONLY	
APP NO.	CP NO.
SEE RECEIVED	CHECK NO.
\$300.00	2307
DATE RECEIVED	9/23/13 RB

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

Bella Ridge First Plat

ADDRESS	CITY	STATE	ZIP CODE	COUNTY
Northwood Road at NW 48th Street	Riverside	MO		Platte

2.2 Legal Description: ¼, ¼, SW ¼, Sec. 32, T 51, R 33

2.3 Project Components (check all that apply):

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

2.4 PROJECT DESCRIPTION

179 linear feet of 3" HDPE, 462 linear feet of 2" HDPE with house service connections and end cleanouts, 1079 linear feet of 8" gravity sewer, 6 manholes and all necessary appurtenances to make this a complete and usable sewage collection system for the proposed subdivision. Discharge is to an existing sewer system.

2.5 DESIGN INFORMATION

- A. Population or number of lots to be served by this extension: 32 lots @ 3.7 persons per lot for
- B. Estimated flow to be contributed by this extension: Design Average Flow: 1077 gpd Design Peak Hourly Flow: 2692 gph
- C. Industrial Wastes: Type: N/A Flow: gpd
- D. Receiving Sewer: Size: 12 inches Capacity: 1,385 gpm

3.0 PROJECT OWNER

NAME	TELEPHONE NUMBER WITH AREA CODE	E-MAIL ADDRESS	
Greenfield Investments, LLC.	(816) 591-2550		
ADDRESS	CITY	STATE	ZIP CODE
6014 N. Nine Highway	Parkville	MO	64152

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	
Platte County Regional Sewer District	(816) 858-2052		
ADDRESS	CITY	STATE	ZIP CODE
414 State Route 273	Tracy	MO	64079

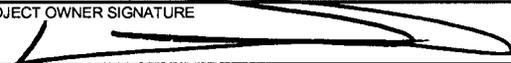
4.1 A letter from the continuing authority, if different than the owner, is included with this application. YES NO N/A

5.0 ENGINEER

ENGINEER NAME / COMPANY NAME	TELEPHONE NUMBER WITH AREA CODE	E-MAIL ADDRESS	
Wilbur M. Souders/Aylett Survey and Eng. Co.	(816) 436-0732	wil@sams-survey.com	
ADDRESS	CITY	STATE	ZIP CODE
201 NW 72nd Street	Gladstone	MO	64118

6.0 RECEIVING WASTEWATER TREATMENT FACILITY

NAME	TELEPHONE NUMBER WITH AREA CODE	E-MAIL ADDRESS
Westside Wastewater Treatment Plant		

MISSOURI STATE OPERATING PERMIT # MO-0024929		REMAINING CAPACITY (GPD) 8.2 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 type="checkbox"/> YES <input checked="" 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 			
PROJECTED NAME DAVID BARST		DATE	
TITLE OR CORPORATE POSITION GREENFIELD INC. L.L.C.		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	