

**STATE OF MISSOURI**  
**DEPARTMENT OF NATURAL RESOURCES**

MISSOURI CLEAN WATER COMMISSION



**CONSTRUCTION PERMIT**

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

City of Stover  
ATTN: Eckie Knierim, Mayor  
503 West Second Street  
Stover, MO 65078

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).

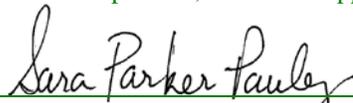
As the Department does not examine structural features of design or the efficiency of mechanical equipment, the issuance of this permit does not include approval of these features.

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.

November 20, 2014  
Effective Date

November 19, 2016  
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 2247 linear feet (lf) of eight-inch (8") polyvinyl chloride (PVC) Standard Dimension Ratio (SDR)-35, 650 lf of 8-inch (8") polyvinyl chloride (PVC) Standard Dimension Ratio (SDR)-26 and 75 lf of 8-inch (8") Yelomine Standard Dimension Ratio (SDR)-21 gravity sewer lines with approximately 14 manholes and all the necessary appurtenances to make a complete and usable. This wastewater collection system is to serve one residential and three commercial lots along Highway 135 with an estimated design average flow of 700 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 Highway 135 South in City of Stover, Morgan County and discharge to an existing sewer system to be treated at the Stover Southwest Lagoon, Missouri State Operating Permit No. MO-0047058.

### **PERMIT CONDITIONS:**

1. All construction shall be in accordance with the plans and specifications submitted by MECO Engineering Company, Inc. as follows:
  - Plans and specifications received on October 31, 2014 and signed and sealed by Scott E. Vogler, P.E. on October 31, 2014.
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 Southwest 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".

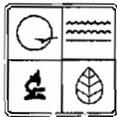
5. Protection of drinking water supplies shall be in accordance with 10 CSR 20-8.120(10). “There shall be no physical connections between a public or private potable water supply system and a sewer, or appurtenance thereto which would permit the passage of any wastewater or polluted water into the potable 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. 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](http://www.dnr.mo.gov/env/wpp/epermit/help.htm). See [www.dnr.mo.gov/env/wpp/stormwater/sw-land-disturb-permits.htm](http://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/](http://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 Stover will become the continuing authority for operation, maintenance, and modernization of these facilities.

**Keith Forck**  
**Engineering Section**  
**[keith.forck@dnr.mo.gov](mailto:keith.forck@dnr.mo.gov)**

# RECEIVED

NR 1110x  
CPSE00991



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

OCT 31 2014

FOR DEPARTMENT USE ONLY	
APP NO.	CP NO.
FEE RECEIVED \$300.00	CHECK NO 38105
DATE RECEIVED 10/31/14	

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### WATER PROTECTION PROGRAM

**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: USDA RD Project #: 417604149
- 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

City of Stover, Hwy 135 Sewer Extension

ADDRESS	CITY	STATE	ZIP CODE	COUNTY
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2.2 Legal Description: ¼, ¼, NE ¼, Sec. 2, T 42N, R 19W

2.3 Project Components (check all that apply):

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

2.4 PROJECT DESCRIPTION

Construction of 2,968 LF of 8 inch gravity sewer main with 14 manholes. There will be 4 service connections and 70 LF of highway boring.

2.5 DESIGN INFORMATION

- A. Population or number of lots to be served by this extension: 4
- B. Estimated flow to be contributed by this extension: Design Average Flow: 700 gpd Design Peak Hourly Flow: 117 gph
- C. Industrial Wastes: Type: Flow: 0 gpd
- D. Receiving Sewer: Size: 8 inches Capacity: 1,167 gpm

### 3.0 PROJECT OWNER

NAME City of Stover	TELEPHONE NUMBER WITH AREA CODE (573) 377-4510	E-MAIL ADDRESS	
ADDRESS 503 W 2ND STREET	CITY Stover	STATE MO	ZIP CODE 65078

**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 City of Stover	TELEPHONE NUMBER WITH AREA CODE (573) 377-4510	E-MAIL ADDRESS	
ADDRESS 503 W 2ND STREET	CITY Stover	STATE MO	ZIP CODE 65078

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 Scott E. Vogler, MECO Engineering Co., Inc.	TELEPHONE NUMBER WITH AREA CODE (573) 893-5558	E-MAIL ADDRESS svogler@mecoengineering.com	
ADDRESS 2701 Industrial Drive	CITY Jefferson	STATE MO	ZIP CODE 65109

### 6.0 RECEIVING WASTEWATER TREATMENT FACILITY

NAME Stover WWTF	TELEPHONE NUMBER WITH AREA CODE (573) 377-4510	E-MAIL ADDRESS	
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MISSOURI STATE OPERATING PERMIT # MO 0047058		REMAINING CAPACITY (GPD) 36,500	
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 PROJECT OWNER:</b> 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 Eckie Knierim		DATE 10/20/14	
TITLE OR CORPORATE POSITION Mayor	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	