



Jeremiah W. (Jay) Nixon, Governor • Harry D. Bozoian, Director

# DEPARTMENT OF NATURAL RESOURCES

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dnr.mo.gov

October 31, 2016

Mr. Brian Hess, P.E., Director of Utilities  
City of Liberty  
101 East Kansas Street  
Liberty, MO 64068

RE: C295702-01 City of Liberty, Missouri – West Trunk Sewer Phase 2, Liberty Wastewater Treatment Facility, MO-0137111, Construction Permit No. CPSE01064

Dear Mr. Hess:

The Missouri Department of Natural Resources' Water Protection Program has reviewed and approved the design build plans submitted by George Butler Associates for the city of Liberty. Please find enclosed Construction Permit No. CPSE01064 and one set of approved plans. You must maintain these with your official project file for a minimum of four years following completion of the project.

This permit will terminate 24 months from the date of issuance. In accordance with 10 CSR 20-6.010(4)(G), the department may grant an extension only one 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 be entitled to an appeal before the Administrative Hearing Commission (AHC) pursuant to 10 CSR 20-1.020 and Section 621.250, RSMo. To appeal, you must file a petition with the AHC within thirty 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 AHC. Contact information for the AHC is: Administrative Hearing Commission, United States Post Office Building, Third Floor, 131 West High Street, P.O. Box 1557, Jefferson City, MO 65102, Phone: 573-751-2422, Fax: 573-751-5018, and Website: [www.oa.mo.gov/ahc](http://www.oa.mo.gov/ahc)

Mr. Brian Hess, P.E., Director of Utilities  
October 31, 2016  
Page Two

If you have any questions concerning this matter, please contact Ms. Cynthia M. Smith, P.E., of the Water Protection Program, at 573-522-9723 or 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



Shawn Muenks, P.E., SRF Engineering Unit Chief  
Financial Assistance Center

SM:csn

Enclosures

c: Mr. Scott Knight, P.E., Crawford Murphy & Tilly, Inc.  
Mr. Scott Honig, P.E., Kansas City Regional Office  
Ms. Cynthia M. Smith, P.E., Water Protection Program, Financial Assistance Center  
Ms. Laura Richardson, 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:

City of Liberty  
101 East Kansas Street  
Liberty, MO 64068

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.

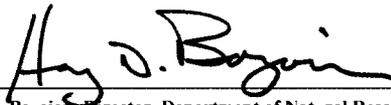
As the department does not examine structural features of design or the efficiency of mechanical equipment, the issuance of this permit does not include approval of these features.

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 31, 2016  
Effective Date

October 30, 2018  
Expiration Date

  
\_\_\_\_\_  
Harry D. Bozian, Director, Department of Natural Resources

  
\_\_\_\_\_  
Director, Water Protection Program

## **CONSTRUCTION PERMIT**

### **CONVEYANCE SYSTEM:**

This project consists of the installation and construction of wastewater conveyance system improvements to convey wastewater from the city of Liberty to the new Liberty Wastewater Treatment Facility (WWTF):

- Phase 2 West Trunk Sewer – approximately 5,260 lf of new 36-inch gravity sewer.

The project will also include general site work appropriate to the scope and purpose of the project. This project, in combination with the Phase 1 West Trunk Sewer project will convey west side of Liberty wastewater flows to the WWTF.

These wastewater facilities will be in the vicinity of Lindeman Road in the southwest portion of the city of Liberty, Missouri, Clay County, and will discharge to the new Liberty WWTF (currently under construction), Missouri State Operating Permit No. MO-0137111.

### **PERMIT CONDITIONS:**

This project is being constructed as a “Design-Build project. The permittee is authorized to construct subject to the following conditions:

1. All construction shall be in accordance with the Water Pollution Control components of the plans submitted by George Butler Associates, Inc. on August 18, 2016 and signed and sealed by Mr. Timothy M. Schneller, P.E. on August 15, 2016 and approved by the department on October 31, 2016.
2. The department must be contacted in writing prior to making any changes to the approved plans that would directly or indirectly have an impact on the capacity, flow, system layout, or reliability of the proposed wastewater facilities or any design parameter that is addressed by 10 CSR 20-8, in accordance with 10 CSR 20-8.110(8).
3. As per 10 CSR 20-4.040, all changes in contract price or time within the approved scope of work must be by change order in accordance with Section 20 of this rule.
4. This construction permit does not authorize discharge.
5. 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.

6. 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 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 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 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 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 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.
7. 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](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.

8. 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.

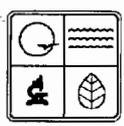
9. Upon completion of construction:
  - A. The city of Liberty will become the continuing authority for operation, maintenance, and modernization of these facilities;
  - B. Submit the enclosed form Statement of Work Completed to the department in accordance with 10 CSR 20-6.010(5)(D); and
  - C. Submit an electronic copy of the as-builts.

AP 25355

RECEIVED

CPSE01064

AUG 18 2016



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

FOR DEPARTMENT USE ONLY	
APP NO.	CP NO.
DATE RECEIVED 8-18-16	CHECK NO.

Folder Tracking # C17124

JD

**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: SRF Project #: 702-1
  - 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 (See attached CMT West Trunk Sewer Design Flow Basis Memorandum)
  - 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  
Liberty West Trunk Sewer - Phase 2

ADDRESS	CITY	STATE	ZIP CODE	COUNTY
Lindenman Rd.	Liberty	MO	64068	Clay

2.2 Legal Description: ¼, SW ¼, SW ¼, Sec. 30, T 51N, R 31W

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 wastewater conveyance system improvements to convey wastewater generated by the City of Liberty to a new wastewater treatment plant include: approximately 5,260 lineal feet of 36-inch diameter pipe for the "West Trunk Sewer -Phase 2" (see sheets C4 – C8). This sewer in combination with the 1,400 lineal feet of 36-inch diameter pipe "West Interceptor Sewer" (previously permitted under CPSE 01040) and 2,372 lineal feet of 36-inch diameter pipe and 387 lineal feet of 24-inch diameter pipe for the previously submitted as "West Trunk Sewer – Phase 1" will convey Liberty flows to the new Liberty Wastewater Treatment Facility.  
  
Construction of 6 permanent flow metering sites to allow for billing of wastewater being conveyed to Kansas City, Missouri for treatment (See Sheet FM11).

2.5 DESIGN INFORMATION

- A. Population or number of lots to be served by this extension: 9,600 current, 27,200 design
- B. Estimated flow to be contributed by this extension: Design Average Flow: 3.3M gpd Design Peak Hourly Flow: 18.2M gph
- C. Industrial Wastes: Type: Flow: gpd
- D. Receiving Sewer: Size: 36 inches Capacity: 18.2M gpm

**3.0 PROJECT OWNER**

NAME	TELEPHONE NUMBER WITH AREA CODE	E-MAIL ADDRESS	
City of Liberty	(816) 439-4549	bhess@ci.liberty.mo.us	
ADDRESS	CITY	STATE	ZIP CODE
101 E. Kansas Street	Liberty	MO	64068

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

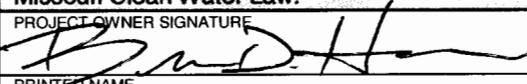
NAME	TELEPHONE NUMBER WITH AREA CODE	E-MAIL ADDRESS	
City of Liberty	(816) 439-4549	bhess@ci.liberty.mo.us	
ADDRESS	CITY	STATE	ZIP CODE
101 E. Kansas Street	Liberty	MO	64068

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	
Tim Schneller / GBA Architects & Engineers	(913) 492-0400	tschneller@gbateam.com	
ADDRESS	CITY	STATE	ZIP CODE
9801 Renner Boulevard	Lenexa	KS	66219

**6.0 RECEIVING WASTEWATER TREATMENT FACILITY**

NAME Liberty Wastewater Treatment Plant	TELEPHONE NUMBER WITH AREA CODE (816) 439-4549	E-MAIL ADDRESS bhess@ci.liberty.mo.us
MISSOURI STATE OPERATING PERMIT # MO-0137111	REMAINING CAPACITY (GPD) 5.0M	
6.1 Has the receiving treatment facility agreed to accept the additional wastewater flow? <input checked="" type="checkbox"/> YES    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 Brian Hess, P.E.		DATE 8/16/2016
TITLE OR COPORATE POSITION Director of Utilities	TELEPHONE NUMBER WITH AREA CODE (816) 439-4549	E-MAIL ADDRESS bhess@ci.liberty.mo.us
Mail completed copy to: MISSOURI DEPARTMENT OF NATURAL RESOURCES WATER PROTECTION PROGRAM P.O. BOX 176 JEFFERSON CITY, MO 65102-0176		

GEORGE BUTLER ASSOCIATES, INC.  
 ARCHITECTS • ENGINEERS  
 ONE RENNER RIDGE  
 9801 RENNER BOULEVARD  
 LENEXA, KANSAS 66219-9745

UMB BANK, NA  
 KANSAS CITY MISSOURI  
 18-691010

090591

CHECK DATE  
 July 18, 2016

**PAY** Three Hundred and 00/100 Dollars

**AMOUNT** \$300.00

Missouri Department of Natural Resources

**TO**

GEORGE BUTLER ASSOCIATES, INC.

*Michelle L. Brewer*

MP  
 AUTHORIZED SIGNATURE(S)

⑈090591⑈ ⑆101000695⑆ ⑈9801114395⑈

BA LENEXA, KANSAS 66219-9745

090591

Check Date: 7/18/2016

Invoice Number	Date	Voucher	Amount	Discounts	Previous Pay	Net Amount
7/18/16 Permit App	7/18/2016	0187458	\$300.00			\$300.00
Missouri Department of Natural Resources		TOTAL	\$300.00			\$300.00
UMB BANK NA	1	MDNR				

**Department of Natural Resources**  
**Water Protection Program**  
**For Deposit Only**  
**Missouri State Treasurer**

RECEIVED

JUL 19 2016

Water Protection Program



GEORGE BUTLER ASSOCIATES, INC.  
A Division of

July 18, 2016

Missouri Department of Natural Resources  
Water Protection Program – Permits Section  
1101 Riverside Drive  
Jefferson City, MO 65102-0176  
Attn: Cynthia Smith, P.E.

SUBJECT: West Trunk Sewer – Phase 2  
Liberty, MO  
SRF Project No. 702-1

Dear Ms. Smith:

Please find attached a submittal of an Application for Construction Permit – Sewer Extension for the project referenced above. Included in this submittal are the following documents:

- Application for Construction Permit – West Trunk Sewer Phase 1
- One (1) full size set of drawings
- One (1) half size set of drawings
- Two (2) copies of the design computations and report
- Two (2) copies of the Facility Plan Amendment
- A \$300 check for the application fee

If you have any questions or need more information, please give me a call at (913) 577-8374.

Sincerely,

**GEORGE BUTLER ASSOCIATES, INC.**

  
Timothy M. Schneller, P.E.  
Associate

Enclosures

cc: Brian Hess – City of Liberty  
Doug Washsicht, Alan Stevenson, Dan Randolph – Goodwin Brothers  
Tim Tappendorf, Scott Knight – Crawford, Murphy & Tilly  
Les Barnt, Mike Hart – GBA

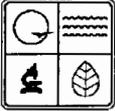
1101 Riverside Drive  
Jefferson City, MO 65102-0176

9809 Kennel Boulevard  
Terre Haute, Kansas  
64603-4745

913-492-9300  
913-577-8374 fax

GBA Companies  
1101 Riverside Drive  
Jefferson City, MO 65102-0176  
913-492-9300  
913-577-8374 fax  
1101 Riverside Drive  
Jefferson City, MO 65102-0176  
913-492-9300  
913-577-8374 fax

www.gbainc.com



MISSOURI DEPARTMENT OF NATURAL RESOURCES JUL 19 2016  
 WATER PROTECTION PROGRAM

**APPLICATION FOR CONSTRUCTION PERMIT -**  
**SEWER EXTENSION**

FOR DEPARTMENT USE ONLY	
APP NO.	CP NO.
FEE RECEIVED \$300.00	CHECK NO. 90591
DATE RECEIVED 7-19-16	

**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: SRF Project #: 702-1
- 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 (See attached CMT West Trunk Sewer Design Flow Basis Memorandum)
- 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

Liberty West Trunk Sewer - Phase 2

ADDRESS	CITY	STATE	ZIP CODE	COUNTY
Lindenman Rd.	Liberty	MO	64068	Clay

2.2 Legal Description: ¼, SW ¼, SW ¼, Sec. 30, T 51N, R 31W

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 wastewater conveyance system improvements to convey wastewater generated by the City of Liberty to a new wastewater treatment plant include: approximately 6,000 lineal feet of 36-inch diameter pipe and 328 lineal feet of 24-inch diameter pipe for the "West Trunk Sewer -Phase 2" (see sheets C4 - C10). This sewer in combination with the 1,400 lineal feet of 36-inch diameter pipe "West Interceptor Sewer" (previously permitted under CPSE 01040) and 1,200 lineal feet of 36-inch diameter pipe and 387 lineal feet of 24-inch diameter pipe for the previously submitted as "West Trunk Sewer - Phase 1" will convey Liberty flows to the new Liberty Wastewater Treatment Facility.

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ADDRESS 101 E. Kansas Street	CITY Liberty	STATE MO
		ZIP CODE 64068

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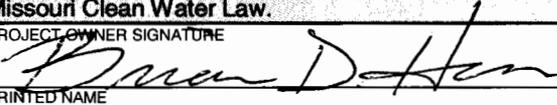
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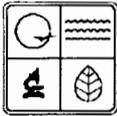
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ENGINEER NAME / COMPANY NAME Tim Schneller / GBA Architects & Engineers	TELEPHONE NUMBER WITH AREA CODE (913) 492-0400	E-MAIL ADDRESS tschneller@gbateam.com
ADDRESS 9801 Renner Boulevard	CITY Lenexa	STATE KS
		ZIP CODE 66219

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PROJECT OWNER SIGNATURE 		
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MISSOURI DEPARTMENT OF NATURAL RESOURCES  
WATER PROTECTION PROGRAM

**APPLICATION FOR CONSTRUCTION PERMIT -  
SEWER EXTENSION**

FOR DEPARTMENT USE ONLY	
APP NO.	CP NO.
FEE RECEIVED <b>\$300.00</b>	CHECK NO. <b>90591</b>
DATE RECEIVED <b>7-19-16</b>	

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GEORGE BUTLER ASSOCIATES, INC.  
ARCHITECTS • ENGINEERS  
ONE RENNER RIDGE  
9801 RENNER BOULEVARD  
LENEXA, KANSAS 66219-9745

UMB BANK, NA  
KANSAS CITY MISSOURI  
18-69/1010

**090591**

CHECK DATE  
July 18, 2016

PAY Three Hundred and 00/100 Dollars

AMOUNT \$300.00

TO Missouri Department of Natural Resources

GEORGE BUTLER ASSOCIATES, INC.

*Michelle L. Brewer*

AUTHORIZED SIGNATURE(S)