

STATE OF MISSOURI
DEPARTMENT OF NATURAL RESOURCES

MISSOURI CLEAN WATER COMMISSION



CONSTRUCTION PERMIT

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

<p>Southtown Utilities Company, Inc. P.O. Box 101 Bolivar, MO 65613</p>

for the construction of (described facilities):

<p>See attached.</p>

Permit Conditions:

<p>See attached.</p>

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.

June 1, 2015
Effective Date

May 31, 2017
Expiration Date

Sara Parker Pauley, Director, Department of Natural Resources

John Madras, Director, Water Protection Program

CONSTRUCTION PERMIT

COLLECTION SYSTEM:

The proposed wastewater collection system will consist of a conventional gravity sewer system with lift stations and force mains, which will carry raw wastewater to the receiving wastewater treatment facility.

Construction and installation of approximately 2,465 linear feet of 8-inch polyvinyl chloride (PVC) Standard Dimension Ratio (SDR)-35 gravity sewer with 13 manholes, 14,755 lf of 6-inch High Density Polyethylene (HDPE) force mains with “pigging” access points and three air release valves, 292 linear feet of 12-inch steel casing, one duplex lift station with each pump capable of operating at 280 gallons per minute (gpm) at 65 feet of total dynamic head (TDH), portable generators, and all necessary appurtenances to make a complete and usable wastewater collection system to serve 44 proposed lots with an estimated design average flow of 13,024 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 a developing area west of the intersection of S 131st Road and E 473rd Road in Bolivar, MO in Polk County and discharge to an existing sewer system to be treated at the Karlin Place Subdivision Wastewater Treatment Plant, Missouri State Operating Permit No. MO0121924. Ms. Ronda Riden, Secretary/Treasurer, with Southtown Utilities Company Inc. provided an acceptance letter dated April 1, 2015.

PERMIT CONDITIONS:

1. All construction shall be in accordance with the plans and specifications submitted by Ottmar & Associates Inc. as follows:
 - Specifications received on April 10, 2015 and signed and sealed by Duane Ottmar, P.E. on March 30, 2015.
 - Plans received on April 10, 2015 and signed and sealed by Duane Ottmar, P.E. as follows: sheets CVR, FM-1 to FM-6, GS-1 to GS-3, LS-1, and SD-1 dated March 31, 2015.
 - Addendum One received on May 20, 2015 signed and sealed by Duane Ottmar, P.E. on May 15, 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 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 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

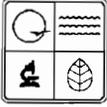
- 2) Either the water main or sewer line may be continuously encased or enclosed in a watertight carrier pipe which extends 10 feet on both sides of the crossing, measured perpendicular to the water main. The carrier pipe shall be of materials approved by the department for use in water main construction.

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 Southtown Utilities Company Inc. will become the continuing authority for operation, maintenance, and modernization of these facilities.



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

RECEIVED

CPSE 0116
 11/20/15
 APR 21 2016 C14635

APR 21 2016

WATER PROTECTION PROGRAM

FOR DEPARTMENT USE ONLY	
APP NO.	CP NO.
FEE RECEIVED \$500.00	CHECK NO. 3037
DATE RECEIVED 8/10/15	

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
 Karlin Acres North Subdivision

ADDRESS	CITY	STATE	ZIP CODE	COUNTY
P. O. Box 101	Bolivar	MO	65613	Polk

2.2 Legal Description: ¼, ¼, ¼, Sec. 24, T 32, R 23

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

2.4 PROJECT DESCRIPTION
 14,755-linear feet +/- of new 6-inch diameter force main with points of connection & three air release valves;
 2,465-linear feet +/- of new 8-inch gravity sewer piping with 13-new manholes;
 292-linear feet +/- of new 12-inch steel casing under MoDOT's 4-lane Highway 13;
 One duplex Lift Station;

2.5 DESIGN INFORMATION

- A. Population or number of lots to be served by this extension: 44-proposed lots
- B. Estimated flow to be contributed by this extension: Design Average Flow: 13,024 gpd Design Peak Hourly Flow: 2,280 gph
- C. Industrial Wastes: Type: None Flow: NA gpd
- D. Receiving Sewer: Size: Eight inches Capacity: 400+ gpm

3.0 PROJECT OWNER

NAME Southtown Utilities Company, Inc.		TELEPHONE NUMBER WITH AREA CODE (417) 326-4424	E-MAIL ADDRESS rondar@windstream.net
ADDRESS P.O. Box 101	CITY Bolivar	STATE MO	ZIP CODE 65613

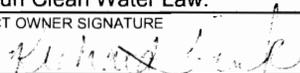
4.0 CONTINUING AUTHORITY: Permanent organization that will serve as the continuing authority for the operation, maintenance and modernization of the wastewater collection system.

NAME Same as above - Southtown Utilities Company.		TELEPHONE NUMBER WITH AREA CODE	E-MAIL ADDRESS
ADDRESS	CITY	STATE	ZIP CODE

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 Ottmar & Associates, Inc.		TELEPHONE NUMBER WITH AREA CODE (417) 833-9700	E-MAIL ADDRESS ottmar19@yahoo.com
ADDRESS 1165 W. Beverly Hills Drive	CITY Springfield	STATE MO	ZIP CODE 65803

6.0 RECEIVING WASTEWATER TREATMENT FACILITY		
NAME Karlin Place Wastewater Treatment Facility	TELEPHONE NUMBER WITH AREA CODE (417) 326-4424	E-MAIL ADDRESS rondar@windstream.net
MISSOURI STATE OPERATING PERMIT # MO 012924	REMAINING CAPACITY (GPD) 31,000 +/- See Report	
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 Richard Fink	DATE 04/01/2015	
TITLE OR COPORATE POSITION President	TELEPHONE NUMBER WITH AREA CODE (417) 326-4424	E-MAIL ADDRESS rondar@windstream.net
Mail completed copy to: MISSOURI DEPARTMENT OF NATURAL RESOURCES WATER PROTECTION PROGRAM P.O. BOX 176 JEFFERSON CITY, MO 65102-0176		

Ottmar & Associates, Inc.

Duane Ottmar, P.E.
1165 W. Beverly Hills Drive
Springfield, MO 65803

Voice: (417) 833-9700
Fax: (417) 833-9702

RECEIVED

APR 20 2015

WATER PROTECTION PROGRAM

LETTER OF TRANSMITTAL

DATE: April 1, 2015

TO: Mr. Refaat Mefrakis, PE - DNR Water Pollution Control – Jefferson City

REGARDING: Karlin Acres North Subdivision

WE ARE SENDING YOU: HEREWITH UNDER A SEPARATE COVER

THE FOLLOWING: COPY OF LETTER DRAWINGS SPECIFICATIONS

OTHER

NUMBER OF COPIES

DESCRIPTION

<u>2-SETS</u>	<u>PROJECT DRAWINGS</u>
<u>2-SETS</u>	<u>PROJECT SPECIFICATIONS</u>
<u>1</u>	<u>PERMIT APPLICATION</u>
<u>2</u>	<u>ENGINEERING REPORTS</u>
<u>1</u>	<u>CONTINUING AUTHORITY LETTER</u>
<u>1</u>	<u>REVIEW FEE</u>

AS REQUESTED

FOR YOUR INFORMATION & USE

FOR REVIEW & COMMENT

FOR APPROVAL & PERMITS

FOR YOUR RECORDS

COPIES RETAINED FOR OUR FILES

PLEASE CALL US IF TRANSMITTAL IS NOT AS NOTED.

BY: Duane Ottmar