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

Construction Permit ID: MOGSE0351
Title of Project: Creek Bridge Subdivision Phase V
Owner: GeoBrax Development, LLC
Address: 6102 N. 23rd Street, Ozark, MO 65721

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: Christian
Receiving Permit ID: MO0099163

for the construction of (described construction project):

Creek Bridge Subdivision Phase V - Construction of 945.50 lineal feet of 8 inch diameter SDR35 and 106.04 lineal feet of 8 inch diameter PVC SDR21 gravity sewer main with seven manholes. Design average flow of 9,100 gpd and design peak hourly flow of 1,611 gph. The receiving sewer is 8 inch with a capacity of 524 gpm.

Project is in the vicinity of West Mason Place and West Braxton Court in Ozark, Christian County Missouri and discharges to an existing system to be treated at the Ozark WWTF, MO-0099163. John W. McCart, Assistant Public Works Director, signed the Continuing Authority and Receiving Wastewater Treatment Facility Acceptance form dated March 16, 2022.

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.

Chris Wieberg, Director
Water Protection Program

April 06, 2022
Issue Date

April 05, 2024
Expiration Date
APPLICABILITY

1. This permit authorizes the construction of gravity sewer extensions, force mains, and lift stations. Non-earthen flow equalization storage basins at lift stations and inline storage, which flows back into the lift station or collection system, are also included.

2. A site specific sewer extension construction permit may be required by the Department due to compliance and enforcement actions.

3. Projects located within an Approved Sewer Program as noted in the operating permit of the receiving wastewater treatment facility are not required to obtain a construction permit from the Department of Natural Resources (Department).

4. This permit does not apply to:
   A. Earthen storage basins;
   B. Exempt projects unless requested by the applicant or required by enforcement.

PREREQUISITES:

1. The General Sewer Extension Construction Permit application, appropriate fee, and documentation in accordance with 10 CSR 20-6.010(5)(G).

2. The plans and specifications each signed and sealed by a professional engineer registered in the State of Missouri in accordance with 10 CSR 20-8 and 10 CSR 20-6.010.

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

4. A statement from the continuing authority, as defined in 10 CSR 20-6.010, accepting the wastewater for treatment and indicating the permitted treatment facility has the available capacity.

5. A statement from the continuing authority, as defined in 10 CSR 20-6.010, accepting the responsibility for operation and maintenance of these facilities.

PERMIT CONDITIONS:

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

2. The construction must be in accordance with the final plans and specifications approved by the Department.

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 regional office per 10 CSR 20-7.015(9)(E)2., or through the Online Bypass/SSO Reporting system found at https://dnr.mo.gov/eservices.htm under Water Protection.
PERMIT CONDITIONS: (continued)

4. Protection of drinking water supplies must meet the requirements of 10 CSR 23-3.010.
   A. 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.
   B. Sewers shall be laid at least fifty feet (50’) in a horizontal direction from any
      existing or proposed public water supply well or other water supply sources or
      structures.

5. Manholes shall be located with the top access at or above grade level.

6. In addition to the requirements for a construction permit, see 10 CSR 20-6.200 for land
   disturbance requirements 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

   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 under the jurisdiction of the
   Department, then a full closure plan shall be submitted with a Facility Closure Request Form,
   Form – MO 780-2512 to the Department’s appropriate regional office for review and
   approval. In accordance with 10 CSR 20-6.010(12), the closure plan must meet the requirements
   outlined in Standard Conditions Part III, of the Missouri State Operating Permit. Closure shall not
   commence until the submitted closure plan is approved by the Department.

9. If this project is part of a project to resolve an enforcement action or is receiving funding
   from the Department, submit a statement of work complete following the completion of
   construction
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:  

1.2 Has the Department of Natural Resources approved the proposed project's engineering report*?  
   [ ] YES Date of Approval:  
   [ ] NO  

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 or JetPay confirmation included with this application? [ ] YES [ ] NO

See Section 7.0

* Must be affixed with a Missouri registered professional engineer's seal, signature and date.

2.0 PROJECT INFORMATION

2.1 NAME OF PROJECT

Phase V Creek Bridge Subdivision

ADDRESS: West Mason Place and West Braxton Court  
CITY: Ozark  
STATE: MO  
ZIP CODE: 65721  
COUNTY: Christian

2.2 Legal Description:  

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 945.50 lineal feet of 8 inch diameter PVC SDR-35 and 106.04 lineal feet of 8 inch diameter PVC SDR-21 gravity sewer main with seven manholes.

2.5 DESIGN INFORMATION

A. Population or number of lots to be served by this extension: PE = 91

B. Estimated flow to be contributed by this extension:  
   Design Average Flow: 9,100 gpd  
   Design Peak Hourly Flow: 1,611 gph

C. Industrial Wastes: Type: N/A  
   Flow: N/A gpd

D. Receiving Sewer: Size: 8 inches  
   Capacity: 524 gpm

3.0 PROJECT OWNER

NAME: GeoBrax Development, LLC  
TELEPHONE NUMBER WITH AREA CODE: 417-425-0263  
EMAIL ADDRESS: amy@nrouteilc.com

ADDRESS: 6102 North 21st Street  
CITY: Ozark  
STATE: MO  
ZIP CODE: 65721

4.0 CONTINUING AUTHORITY: A continuing authority is a company, business, entity or person(s) that will be operating the facility or ensuring compliance with the permit requirements. A continuing authority is not, however, an entity or individual that is contractually hired by the permittee to sample or operate and maintain the system for a defined time period, such as a certified operator or analytical laboratory. To access the regulatory requirement regarding continuing authority, 10 CSR 20-6.010(2), please visit https://s1.sos.mo.gov/cmsimages/adrules/csr/current/10csr/10c20-6.pdf. A continuing authority's name must be listed exactly as it appears on the Missouri Secretary of State's (SoS's) webpage: https://bsd.sos.mo.gov/BusinessEntity/BESearch.aspx?SearchType=0, unless the continuing authority is an individual(s), government, or otherwise not required to register with the SoS.

NAME: City of Ozark  
ADDRESS: 205 N. 1st Street  
TELEPHONE NUMBER WITH AREA CODE: 417-581-1705  
EMAIL ADDRESS: tauchtung@ozarkmissouri.org

4.1 A letter from the continuing authority or the Continuing Authority and Receiving Wastewater Treatment Facility Acceptance form, if different than the owner, is included with this application. [ ] YES [ ] NO [ ] N/A
6.0 ENGINEER

ENGINEER NAME / COMPANY NAME
Wayne Diebold - Rozell Engineering Company

ADDRESS
2404 State Hwy 248 Suite 4

CITY Branson

STATE MO

ZIP CODE 65616

TELEPHONE NUMBER WITH AREA CODE 417-334-4141

EMAIL ADDRESS wdiebold@rozellgroup.net

6.0 RECEIVING WASTEWATER TREATMENT FACILITY

NAME
City of Ozark North 22nd Street Municipal WWTF

ADDRESS
22nd Street Municipal WWTF

CITY Ozark

STATE MO

ZIP CODE N/A

TELEPHONE NUMBER WITH AREA CODE 417-581-6461

EMAIL ADDRESS gdouglas@ozarkmissouri.org

MISSOURI STATE OPERATING PERMIT # MO-009163

REMAINING CAPACITY (GPD) 0.9 MGD

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 Application Fee

☐ Check Number ☑ JetPay Confirmation Number Pending

8.0 PROJECT OWNER: I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

SIGNATURE
Amy Reynolds

DATE 3/16/22

9.0 APPLICATION COMPLETE

Mail completed copy to:
MISSOURI DEPARTMENT OF NATURAL RESOURCES
WATER PROTECTION PROGRAM
P.O. BOX 176
JEFFERSON CITY, MO 65102-0176
SEWER EXTENSION DESIGN CERTIFICATION

Answer all questions yes, no, or N/A. Answer N/A only if the question is clearly not applicable to the design of the proposed sewer extension OR if a deviation was previously allowed by the Department in the approval of Standard specifications or Standard Detail Sheets.

### 9.0 SEWER EXTENSION CHECKLIST

<table>
<thead>
<tr>
<th>REGULATION</th>
<th>YES</th>
<th>NO</th>
<th>N/A</th>
</tr>
</thead>
<tbody>
<tr>
<td>1  8.110(9)(B) Are detailed plans showing tributary area, boundaries, pertinent elevations, topography, existing and proposed facilities provided?</td>
<td>✔️</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>2  8.110(3)(A) Is the design flow based on actual flow data for an existing system?</td>
<td>✔️</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>3  8.110(3)(B) Are average design flows, peak hourly flows, and I&amp;I contributions for new systems calculated.</td>
<td>✔️</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>4  8.120(2) Does the sewer exclude water from roofs, streets, groundwater from foundation drains, and combined wastewater?</td>
<td>✔️</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>5  8.120(3)(C) Is ASTM C969-17 leakage test specified to ensure water tight joint seals and appropriate exfiltration and infiltration rates?</td>
<td>✔️</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>6  8.120(4)(A) Are manholes located at all changes in grade, size or alignment, and all intersections?</td>
<td>✔️</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>7  8.120(3)(A)1 Are all sewer pipes constructed with a slope to obtain mean velocities of not less than 2 feet per second?</td>
<td>✔️</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>8  8.120(3)(A)2 Is the pipe covered with at least 36&quot; of soil or sufficiently insulated to prevent freezing?</td>
<td>✔️</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>9  8.120(3)(A) Is the pipe installation, embedment, and backfill designed to prevent damage to the pipe and its joints?</td>
<td>✔️</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>10 8.120(3)(B) Is deflection testing specified to ensure no pipe exceeds a deflection of 5% of the inside diameter?</td>
<td>✔️</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>11 8.120(4)(C) Are manholes at least 42 inches in diameter with a clear opening of 22 inches on sewer line larger than 8&quot;?</td>
<td>✔️</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>12 8.120(4)(C) Where cleanouts are used at the end of a lateral instead of a manhole, are they a minimum diameter of 8 inches or larger and equal to the diameter for pipes &lt; 8&quot;?</td>
<td>✔️</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>13 8.120(4)(E) Are the manholes specified to be watertight, constructed, installed in accordance with the manufacturer's recommendations and procedures?</td>
<td>✔️</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>14 8.120(4)(F) Do the specifications include a requirement for inspection and testing for manholes?</td>
<td>✔️</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>15 8.120(5)(B) Are sewers and manholes located at least 50 feet horizontally from any existing or proposed water supply well, sources, structures?</td>
<td>✔️</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>16 8.120(5)(A) Is the sewer free from physical connections to a potable water supply system with no water pipes coming in contact with a sewer manhole?</td>
<td>✔️</td>
<td>☐</td>
<td>☐</td>
</tr>
</tbody>
</table>
### 10.0 PRESSURE SEWERS, GRINDER PUMP, STEP AND STEG SEWER CHECKLIST

<table>
<thead>
<tr>
<th>REGULATION</th>
<th>YES</th>
<th>NO</th>
<th>N/A</th>
</tr>
</thead>
<tbody>
<tr>
<td>17 8.125(5)(A)1.</td>
<td>Does the cleaning velocity of ≥ 2 ft/s happen at least once per day?</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>18 8.125(5)(A)2.</td>
<td>Is the diameter of the pressure sewer main pipe at least 1.5&quot;?</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>19 8.125(5)B</td>
<td>Are appurtenances compatible with the piping system?</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>20 8.125(5)(C)</td>
<td>Do service line pipes have a minimum diameter of 1.25 in.?</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>21 8.125(5)(D)1. A</td>
<td>Do simplex grinder pump stations service only a single equivalent dwelling unit (EDU)? i.e. 1 residence – 1 grinder pump station.</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>22 8.125(5)(D)1. B</td>
<td>Are multiple unit pump stations owned, operated, maintained by an approved continuing authority?</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>23 8.125(5)(D)3</td>
<td>Is there at least 70 gallons of storage in the grinder pump unit?</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>24 8.125(5)(D)4</td>
<td>Do grinder pump stations have shutoff valves, check valves, and anti-siphon valves (where siphoning could occur) that are accessible from the ground surface?</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>25 8.125(5)(D)7 8.130(3)(B)2</td>
<td>Are units serviceable and replaceable under wet conditions without electrical hazard and electrical equipment suitable for hazardous locations (National Electrical Code, Class I, Group D, Division 1 location)?</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>26 8.125(6)(D)8 8.125(6)(F)6</td>
<td>Are provisions in place to avoid interruption of service due to mechanical or power failure by providing standby power, storage capacity or interconnection with another disposal system?</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>27 8.125(6)(D)8 8.180(2)</td>
<td>Does each EDU have at least one septic tank with a minimum of 1,000 gallon capacity with 20% of tank volume dedicated to freeboard and ventilation?</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>28 8.125(6)(F)</td>
<td>Are pump vaults designed with duplex pumps for STEP sewer systems with design flow of 1,500 gallons per day or greater?</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>29 8.125(7)(A) 8.125(7)(C)</td>
<td>Is the minimum STEG sewer service line at least 4&quot; in diameter?</td>
<td>☐</td>
<td>☐</td>
</tr>
</tbody>
</table>

### 11.0 PUMP STATION CHECKLIST

<table>
<thead>
<tr>
<th>REGULATION</th>
<th>YES</th>
<th>NO</th>
<th>N/A</th>
</tr>
</thead>
<tbody>
<tr>
<td>30 8.130(2)(A) 8.140(2)(B)</td>
<td>Is the pump station designed to withstand the 100-year flood?</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>31 8.130(3)(A)</td>
<td>Is the dry well completely separate from the wet well and is a suitable and safe means of access provided to each?</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>32 8.130(3)(B)</td>
<td>If the design flow is 1,500 gpd or more, are at least 2 pumps or pneumatic ejectors provided?</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>33 8.130(3)(D)</td>
<td>Are valves located outside wet well unless integral to a pump or its housing?</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>34 8.130(3)(F) 8.140(8)(J)</td>
<td>Do wet and dry wells have separate ventilation systems?</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>35 8.130(3)(G)</td>
<td>Does all potable water brought to the pump station comply with 8.140 (7) D?</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>36 8.130(6)</td>
<td>Is an alarm system provided with uninterrupted power?</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>37 8.130(7)(A)</td>
<td>Is there 2 hours retention of the peak hourly flow for a design flow &gt; 100,000 gpd or 4 hrs retention of the peak hourly flow for a design flow &lt; 100,000 gpd?</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>38 8.130(7)(B)</td>
<td>Is there an independent utility substation provided for emergency power that is capable of starting and operating the pump station at its rated capacity?</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>39 8.130(8)(A)</td>
<td>Is the force main velocity of ≥ 2 ft/s maintained?</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>40 8.130</td>
<td>Are there complete operation instructions for the pumping stations provided that include emergency procedures, maintenance schedules, special tools and spare parts that may be necessary?</td>
<td>☐</td>
<td>☐</td>
</tr>
</tbody>
</table>
### 12.0 SUCTION LIFT PUMP AND SUBMERSIBLE PUMP STATION CHECKLIST

<table>
<thead>
<tr>
<th>REGULATION</th>
<th>DESCRIPTION</th>
<th>YES</th>
<th>NO</th>
<th>N/A</th>
</tr>
</thead>
<tbody>
<tr>
<td>41 8.130(4)</td>
<td>Are the suction lift pumps of the self priming or vacuum priming type?</td>
<td></td>
<td></td>
<td>✔</td>
</tr>
<tr>
<td>42 8.130(4)(A)</td>
<td>Is the combined total of dynamic suction lift at the &quot;pump off&quot; elevation and required net positive suction head at design operating conditions less than or equal to twenty-two feet (22')?</td>
<td></td>
<td></td>
<td>✔</td>
</tr>
<tr>
<td>43 8.130(4)(B)</td>
<td>Are there dual vacuum pumps capable of removing air from the suction lift pump?</td>
<td></td>
<td></td>
<td>✔</td>
</tr>
<tr>
<td>44 8.130(5)(A)</td>
<td>Are submersible pumps readily removable and replaceable without personnel entering, or disconnecting any pipe in the wet well?</td>
<td></td>
<td></td>
<td>✔</td>
</tr>
</tbody>
</table>

### 13.0 CERTIFICATION STATEMENT

I hereby certify that the design plans and specifications for this project, to the best of my knowledge, conform to the requirements listed above. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

I hereby certify that this plan, specification, and/or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the state of Missouri.

For any question answered "NO" provide explanation. Provide any useful comments on design for review engineer:

---

Name: Wayne Diebold  
Street Address: 2404 State Hwy 248 Suite 4  
City: Branson  
State: MO  
ZIP Code: 65616  
Phone Number: 417-334-4141  
Email: wdiebold@rozellgroup.net