STATE OF MISSOURI DEPARTMENT OF NATURAL RESOURCES

MISSOURI CLEAN WATER COMMISSION



GENERAL PERMIT for SEWER EXTENSION CONSTRUCTION

The Missouri Department of Natu	ural Resources hereby issues a permit to:	
Construction Permit ID: Title of Project: Owner: Address:	MOGC00882 Ryan's Ridge Development Crafton Equipment Inc 104 Dollie Lane Van Buren, MO 63965	
	eral site work appropriate to the scope and purpose of the project and will include and usable collection system. The construction of this project will be in the g Permit ID below:	
County: Carter	Receiving Permit ID: MO0099490	
for the construction of (described	construction project):	
	nstruction of approximately 1,160 lf of 8 inch PVC SDR35 gravity sewer wits and 4 standard manholes to serve 10 multifamily duplex units for a design a	
be treated at Van Buren Wastev	1 Gossett Ln in Van Buren, Carter County and discharges to an existing systewater Treatment Facility, MO0099490. John Bailiff, Mayor of Van Buren, signiving Wastewater Treatment Facility Acceptance form.	
RSMo, and regulation promulgate As the Department does not exam permit does not include approval	cilities shall be in accordance with the provisions of the Missouri Clean Wate ed thereunder, or this permit may be revoked by the Department of Natural R nine structural features of design or the efficiency of mechanical equipment, t of these features. Instruction of water pollution control components; it does not apply to other expressions.	esources (Department) the issuance of this
May 14, 2025	Jan Joke	
Issue Date	John Hoke, Director Water Protection Program	

May 13, 2027
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. The Missouri Department of Natural Resources may require a site-specific sewer extension construction permit due to compliance and enforcement actions in accordance with 10 CSR 20-6.010(13)(C).
- 3. This permit does not apply to:
 - A. Earthen storage basins;
 - B. Exempt projects in accordance with 10 CSR 20-6.010(1)(B), 10 CSR 20-6.010(5)(B), and RSMo 644.051 unless requested by the applicant or required by enforcement.

PREREQUISITES:

- 1. The Sewer Extension Construction Permit application, appropriate fee, and documentation in accordance with 10 CSR 20-6.010(5)(G).
- 2. Submit the Sewer Extension Construction Permit application at least sixty (60) days in advance of the start of construction in accordance with 10 CSR 20-6.010(5)(F).
- 3. Submit an electronic copy of the construction permit application and documents to DNR.WPPEngineerSection@dnr.mo.gov in accordance with 10 CSR 20-6.010(5)(G)3.
- 4. The plans and specifications, each signed, sealed, and dated by a professional engineer registered in the State of Missouri in accordance with 10 CSR 20-8 and 10 CSR 20-6.010.
- 5. The Design Certification form, Engineering Report, or Summary of Design, signed, sealed, and dated by a professional engineer registered in the State of Missouri, certifying the design of the system is in accordance with 10 CSR 20-6 and 10 CSR 20-8.
- 6. 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.
- 7. A statement from the continuing authority, as defined in 10 CSR 20-6.010, accepting responsibility for the 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 received by the Department. Revisions that affect capacity, flow, or system layout must be approved by the Department prior to construction.

PERMIT CONDITIONS: (continued)

- 3. If construction will incorporate minor changes from previously submitted plans and specifications (i.e., changes that do not affect the capacity, flow, or system layout), submit an electronic copy of the as-built plans and specifications in accordance with 10 CSR 20-8.110(11).
- 4. State and Federal Law does not permit bypassing of raw wastewater; therefore, the applicant must take steps 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) or through the Online Bypass/SSO Reporting service on the Missouri Gateway for Environmental Management (MoGEM) portal found at https://dnr.mo.gov/data-e-services/missouri-gateway-environmental-management-mogem.

See https://dnr.mo.gov/document-search/missouri-gateway-environmental-management-mogem-frequently-asked-questions-pub2988/pub2988 for more information.

- 5. Protection of drinking water supplies must meet the requirements of 10 CSR 20-8.120(5).
 - A. There shall be no physical connections between a public or private potable water supply system and a sewer or appurtenance that would permit the passage of any wastewater or polluted water into the potable supply.
 - B. Lay sewers at least 50 feet (50') in a horizontal direction from any existing or proposed public water supply well or other water supply sources or structures.
- 6. Position manholes so that the top access is at or above grade level.
- 7. 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. Applicants shall obtain land disturbance permits through the Department's ePermitting system, available online at <a href="https://dnr.mo.gov/data-e-services/water/electronic-permitting-ep

See https://dnr.mo.gov/water/business-industry-other-entities/permits-certification-engineering-fees/stormwater/construction-land-disturbance for more information.

8. Entities applying for funding under 10 CSR 20-4, "Grants and Loans" will need to comply with those requirements in addition to the requirements of 10 CSR 20-8.

PERMIT CONDITIONS: (continued)

9. The Department may require a United States (U.S.) Army Corps of Engineers (COE) permit (404) and a Water Quality Certification (401) or a permit waiver for the activities described in this permit. If construction activity will disturb any land below the ordinary high water mark of Jurisdictional Waters of the U.S., then a 404/401 is required. Fulfillment of these requirements is necessary before the permit is considered valid. Since the COE makes determinations on what is jurisdictional, you must contact the COE to determine permitting requirements. You may call the Department's Operating Permits Section at 573-522-4502 for more information.

See https://dnr.mo.gov/water/business-industry-other-entities/permits-certification-engineering-fees/section-401-water-quality for more information.

- 10. If this project eliminates a wastewater treatment facility under the jurisdiction of the Department, then the applicant shall submit a full closure plan 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 Department approves the submitted closure plan.
- 11. If this project is part of a project to resolve an enforcement action or is receiving funding from the Department, submit a <u>statement of work complete</u> following the completion of construction.
- 12. Applicants may submit, prior to the expiration date of this permit, a written request that additional time is needed in accordance with 10 CSR 20-6.010(5)(H)3.



MISSOURI DEPARTMENT OF NATURAL RESOURCES WATER PROTECTION PROGRAM

APPLICATION FOR CONSTRUCTION PERMIT – SEWER EXTENSION

FOR DEPA	RTMENT USE ONLY
APP NO.	CP NO.
FEE RECEIVED	CHECK NO.
DATE RECEIVED	

NOTE ► Please Read the accompanying							
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 Age	ency: CDB	G Pro	ject #: SEE BELOW		
1.2 Has the Department of Natural Resources approved the proposed project's engineering report*? ☐ YES Date of Approval: ☐ N/A							
1.3 Is a copy of the appropriate plans* and	specification	ons* included with this ap	oplication?	✓ YES □ NO			
If the project is using standard specifica	tions, nam	ne of community:					
1.4 Is a summary of design* included with the	his applica	ation? 🗹 YES 🗌 No	0				
1.5 Is the appropriate fee or JetPay confirm See Section 7.0	ation inclu	ided with this application	? 🗹 YES	□NO			
* Must be affixed with a Missouri registered	profession	nal engineer's seal, signa	ture and da	te.			
2.0 PROJECT INFORMATION							
2.1 NAME OF PROJECT Pyan's Pidge Development							
Ryan's Ridge Development ADDRESS	CITY		STATE	ZIP CODE	COUNTY		
1801 Gossett Ln	Van Bur	en	МО	63965	Carter		
2.2 Legal Description: 1/4, SE	1/4, SW	1/4, Sec. 07 ,	T 27N	, R 1E	1		
2.3 Project Components (check all that apply): Gravity sewers Pumping stations Force mains Alternative sewer system Other (Describe below.) 2.4 PROJECT DESCRIPTION This project will consist of approximatley 1,160 linear feet of 8" SDR35 PVC gravity main, 6 standard manholes, and 2 drop manholes to provide public sanitary service to the Ryan's Ridge Development. The sewage flow generated by the proposed apartment complex will discharge into the City of Van Buren's collection system and be treated at the Van Buren Wastewater Treatment Facility (MoDNR Permit MO-0099490).							
A. Population or number of lots to be served by this extension: 74 B. Estimated flow to be contributed by this extension: Design Average Flow: 6,290 gpd Design Peak Hourly Flow: 1,121 gph C. Industrial Wastes: Type: n/a Flow: n/a gpd D. Receiving Sewer: Size: 8 inches Capacity: 500 gpm E. Does this project (check all that apply): Connect to an existing treatment plant Resolve enforcement issue Eliminate or consolidate an existing treatment plant F. Estimated number of onsite systems being removed: n/a G: Estimated costs associated with piping: \$ 95,000.00 Estimated costs associated with lift station(s): \$ n/a							
3.0 PROJECT OWNER			E CENTRALY		建设设施公司 基础基		
Crafton Equipment Inc		TELEPHONE NUMBER WITH AF 573-300-6577	REA CODE	craftonstore@cen	turytel.net		
ADDRESS	CITY	Septim and displayment of the septim is	STATE	ZIP CODE			
04 Dollie Lane Van Buren HARTER NUMBER (SECRETARY OF STATE) or REGISTERED AGENT		en	МО	63965			
00488205	AGENT						
10.780-1632 (10-22)							

MO 780-1632 (10-22)

4.0 CONTINUING AUTHORITY: A continuing	authority is a con	npany, business	s. entity, or	person(s) that will be legally responsible	
for ensuring compliance with the permit requi Continuing authority should be a relatively pe when needed, of the permitted facility or activ hired by the permittee to sample or operate a	rements and provi rmanent entity res rity. A continuing a nd maintain the sy	de continuous s ponsible for the uthority is not, h estem for a defir	stable overs ongoing op nowever, ar ned time pe	sight of the permitted facility or activity. The peration, maintenance and modernization, a entity or individual that is contractually riod, such as a certified operator or	
analytical laboratory. To access the regulator Water Commission Chapter 6. A continuing a (SoS's) webpage: Missouri Secretary of State	uthority's name m	ust be listed exa	actly as it a	ppears on the Missouri Secretary of State's	
required to register with the SoS.	T TELEDHO	ONE NUMBER WITH A	PEA CODE	EMAIL ADDRESS	
City of Van Buren	11771177551777	23-4335	NEA CODE	clerk@cityofvanburen.com	
ADDRESS	CITY		STATE	ZIP CODE	
1401 Main / PO Box 40 CHARTER NUMBER (SECRETARY OF STATE)	Van Buren		МО	63965	
City of Van Buren, Missouri (no charter number	er)				
4.1 Has appropriate continuing authority accepting A letter from the continuing authority accepting different than the original owner of the construction. Treatment Facility Acceptance" Form 780-25.	ig responsibility for uction), or a prope	r continued mail	ntenance of		
5.0 ENGINEER ENGINEER NAME / COMPANY NAME	TELEDIA	NE NUMBER WITH A	DEA CODE	EMAIL ADDRESS	
David Garrett / Garrett Engineering LLC	100 (100 (100 (100 (100 (100 (100 (100	ONE NUMBER WITH A	REA CODE	david@garrett-engineering.com	
ADDRESS 102 N Poplar St	CITY Buffalo		MO	ZIP CODE 65622	
6.0 RECEIVING WASTEWATER TREATME	NT FACILITY				
NAME Van Buren WWTF		TELEPHONE NUMBER WITH AREA CODE (573)323-4335		EMAIL ADDRESS clerk@cityofvanburen.com	
MISSOURI STATE OPERATING PERMIT # MO-0099490	Carter	COUNTY		REMAINING CAPACITY (GPD) 28,200	
6.1 If different from the owner, has a letter be					
accept the expanded flow or has a properly embedded MO 780-2584 form been provided?			Receiving	Wastewater Treatment Facility Acceptance	
6.2 A letter from the receiving wastewater tre ☐ YES ☐ NO ☑ N/A			continuing	authority, is included with this application.	
6.3 If the receiving treatment plant or continue Certificate of Convenience and Necessity has		ulated by the P		e Commission (PSC) for sewer activities, a No N/A	
OPTIONAL QUESTIONS REGARDING MILI					
Have you or an immediate family member ev U.S. Armed Forces?	er served in the	□Y	es	☑ No	
If yes, would you like information about milita in Missouri?	ry-related services	□ Y	'es	☑ No	
7.0 Application Fee					
✓ Check Number 1159			etPay Confirmation Number		
8.0 PROJECT OWNER: I certify under penal supervision in accordance with a system desi submitted. Based on my inquiry of the person gathering the information, the information sub aware there are significant penalties for submiviolations.	gned to assure que or persons who no mitted is, to the be	alified personne nanage the syst est of my knowle	el properly g em, or thos edge and b	gather and evaluate the information e persons directly responsible for elief, true, accurate and complete. I am	
PROJECT OWNER SIGNATURE					
Joey Crafton				DATE 4/4/2025	
TITLE OR CORPORATE POSITION Developer	(0.45) (0.45) (0.45)	ONE NUMBER WITH AN 00-6577	REA CODE	EMAIL ADDRESS craftonstore@centurytel.net	
Mail completed copy to:	(0.0)		0.1		
MISSOURI DEPARTMENT OF NATURAL RESOURCES			Submit completed electronic copy to:		
WATER PROTECTION PROGRAM Missouri D				epartment of Natural Resources PEngineerSection@dnr.mo.gov	
JEFFERSON CITY, MO 65102-0176					

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9.0 SEWER EXTENSION CHECKLIST								
		ESIGN CERTIFICATION: Answer all questions yes or N/A. Answer N/A only if the question is of the proposed sewer extension.	clearly r	not				
	REGULATION		YES	N/A				
1.	8.110(3)(A)	Is the design flow based on actual flow data for an existing system?	V					
2.	8.110(3)(B)	Are average design flows, peak hourly flows and I&I contributions for new systems calculated?	<u></u>					
3.	8.110(9)(B)	Is there a detailed plan showing tributary area, boundaries, pertinent elevations, topography, existing and proposed facilities?	V					
4.	8.120(2)	Does the sewer exclude water from roofs, streets, groundwater from foundation drains and combined wastewater?	✓					
5.	8.120(3)(A)	Is the pipe installation, embedment and backfill designed to prevent damage to the pipe and its joints?	V					
6.	8.120(3) (A)1	Is all sewer pipe constructed with a slope to obtain mean velocities of not less than 2 feet per second?	V					
7.	8.120(3)(A)2	Is the pipe covered with at least 36" of soil or sufficiently insulated to prevent freezing?	✓					
8.	8.120(3)(B)	Is deflection testing specified to ensure no pipe exceeds a deflection of 5% of the inside diameter?	✓					
9.	8.120(4)(A)	Are manholes located at the end of each line, at all changes in grade, size or alignment and at all intersections?	✓					
10.	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"?	V					
11.	8.120(4)(C)	Where cleanouts are used at the end of a lateral instead of a manhole, they are a minimum diameter of 8 inches or larger and equal to the diameter for pipes < 8"?		V				
12.	8.120(4)(E)	Are the manholes watertight, constructed and installed in accordance with the	\					
13.	8.120(4)(F)	manufacturer's recommendations and procedures? Do the specifications include a requirement for inspection and testing for manholes?	V					
14.	8.120(5)(A)	Is the sewer free from physical connections to a potable water supply system and no water pipes come in contact with a sewer manhole?	V					
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?	V					
10.0 F	RESSURE SEWE	ERS, GRINDER PUMP, STEP AND STEG SEWER CHECKLIST	l					
	REGULATION		YES	N/A				
16.	8.125(5)(A)1.	Does the cleaning velocity of ≥ 2 ft/s happen more than once per day?		V				
17.	8.125(5)(A)2.	Is the diameter of the pressure sewer main pipe at least 1.5"?		~				
18.	8.125(5)(B)	Are appurtenances compatible with the piping system?		✓				
19.	8.125(5)(B)2.	Are isolation valves located: upstream of major pipe intersections; both sides of stream, bridge and RR crossings; at terminal end of system?		V				
20.	8.125(5)(C)	Do service line pipes have a minimum diameter of 1.25"?		V				
21.	8.125(5)(D)1.A	Do simplex grinder pump stations service only a single equivalent dwelling unit (EDU)? i.e. 1 residence – 1 grinder pumpt.		V				
22.	8.125(5)(D)1.B	Are multiple unit pump stations owned, operated and maintained by an approved continuing authority?		V				
23.	8.125(5)(D)3.	Is there at least 70 gallons of storage in the grinder pump unit?		V				
24.	8.125(5)(D)4.	Do grinder pump stations have shutoff valves, check valves and anti-siphon valves (where siphoning could occur) that are accessible from the ground surface?		V				
25.	8.125(5)(D)7., 8.130(3)(B)2.	Are units serviceable and replaceable under wet conditions without electrical hazard and is electrical equipment suitable for hazardous locations (National Electrical Code, Class I, Group D, Division 1 location)?		V				
26.	8.125(5)(D)8., 8.125(2)(F)6.	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?		V				
27.	8.125(6)(D)	In a STEP system is at least one septic tank (1,000 gallons or more) provided for each EDU with 20% of tank volume dedicatied to freeboard and ventillation?		V				
28.	8.125(6)(F)	Are duplex pumps provided for the design flow of 1,500 gallons or greater?						

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11.0 PUMP STATION CHECKLIST								
	REGULATION					YES	N/A	
29.	8.125(7)(C)	Is the minimum diameter sewer main pipe and service line of STEG sewer at least 4"?					✓	
30.	8.130(2)(A) 8.140(2)(B)	Is the pump station designed to withstand the 100-year flood?					<u> </u>	
31.	8.130(3)(A)	Is the dry well completely separate from the wet well and is a suitable and safe means of access provided to each?					✓	
32.	8.130(3)(B)	If the design flow is 1,500 gpd or more, are there at least 2 pumps or pneumatic ejectors provided?					V	
33	8.130(3)(D)	Are valves located	d outside wet well unles	ss integral to a pump o	r its housing?		V	
34.	8.130(3)(F) 8.140(8)(J)	Do wet and dry we	ells have separate vent	ilation systems?			V	
35.	8.130(3)(G)	Does all potable w	vater brought to pump s	stations comply with 8.	140(7)(D)?		V	
36.	8.130(6)	Is an alarm syster	n provided with uninter	rupted power?			✓	
37.	8.130(7)(A)		etention of the peak houseak hours		ow > 100,000 gpd or 4 hrs		<u></u>	
38.	8.130(7)(B)	Are there indepen		provided for emergend	cy power capable of starting		V	
39.	8.130(8)(A)		elocity of ≥ 2 ft/s main				✓	
40.	8.130	emergency proced			ons provided that include and spare parts that may be		V	
12.0 S	UCTION LIFT PU	necessary? MP AND SUBMER	SIBLE PUMP STATIO	N CHECKLIST				
7230	REGULATION					YES	N/A	
41.	8.130(4)	Are the suction lift	pumps of the self prim	ing or vacuum priming	type?	П	V	
42.	8.130(4)(A)	Is the combined total of dynamic suction lift at the "pump off" elevation and required net positive suction head at design operating conditions less than or equal to 22 feet?						
43.	8.130(4)(B)	Are there dual vacuum pumps capable of removing air from the suction lift pump?						
44.	8.130(5)(A)		• •	-	nout personnel entering, or			
	0.100(0)(71)		pipe in the wet well?	ie and replaceable with	Tout personner entering, or	Ш	✓	
			CERTIFICATION STAT					
For an		ered "N/A" provide a	an explanation. Also pro	ovide any useful gener	al comments regarding desig	n for rev	iew	
	bove. I am aware				nowledge, conform to the req n, including the possibility of fi		ts	
					direct supervision and that I	am a du	ly	
License	ed Professional Er	igineer under the la	ws of the state of Misso	ouri.				
				COCCOCCIO.				
TE OF MISSO								
Misso	uri Professional Er	ngineer's seal, signa	ature and date:	AVID JOY				
				GARRETT	→ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			
NUMBER PE-2018000202 H.IH.2.5								
Name: David Garrett, P.E.								
Address: 102 N Poplar St								
City: E	Buttalo 		State: Missouri	ZIP Code: 65622				
Telephone Number with Area Code: (417) 327-9809 Email:david@garrett-engineering.com								