## STATE OF MISSOURI DEPARTMENT OF NATURAL RESOURCES

MISSOURI CLEAN WATER COMMISSION



#### GENERAL PERMIT for SEWER EXTENSION CONSTRUCTION

The Missouri Department of Na	atural Resources hereby issues a permit to:
Construction Permit ID: Title of Project: Owner: Address:	MOGC00776 Blackberry Meadows Subdivision Morelock Family Limited Partnership 722 W. Olive Street Springfield, MO 65806
	neral site work appropriate to the scope and purpose of the project and will include all the necessary ete and usable collection system. The construction of this project will be in the vicinity of the county ng Permit ID below:
County: Greene	Receiving Permit ID: MO0103039
for the construction of (describe	ed construction project):
	ision-Construction of approximately 1,750 lf of 8-inch and 2,232 lf of 10-inch PVC with approximately 17 manholes to serve a 296 PE and a design average flow of 29,563
existing system to be treated the owner and continuing aut Administrator of Strafford, an	Seminole and S Madison Streets in Strafford, Greene County and discharges to an at Springfield NW WWTP, MO-0103039. Upon completion, Strafford will become hority for operation and maintenance of this sewer extension. Martha Smartt, City and Errin Kemper, Director of Springfield Environmental Services Department, hority and Receiving Wastewater Treatment Facility Acceptance form dated August
RSMo, and regulation promulga As the Department does not exa permit does not include approva	facilities shall be in accordance with the provisions of the Missouri Clean Water Law, Chapter 644, ated thereunder, or this permit may be revoked by the Department of Natural Resources (Department) unine structural features of design or the efficiency of mechanical equipment, the issuance of this al of these features.  construction of water pollution control components; it does not apply to other environmentally
August 23, 2024 Issue Date	John Holee, Director Water Protection Program

August 22, 2026 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 <a href="mailto:DNR.WPPEngineerSection@dnr.mo.gov">DNR.WPPEngineerSection@dnr.mo.gov</a> 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 <a href="https://dnr.mo.gov/data-e-services/missouri-gateway-environmental-management-mogem">https://dnr.mo.gov/data-e-services/missouri-gateway-environmental-management-mogem</a>.

See <a href="https://dnr.mo.gov/document-search/missouri-gateway-environmental-management-mogem-frequently-asked-questions-pub2988/pub2988">https://dnr.mo.gov/document-search/missouri-gateway-environmental-management-mogem-frequently-asked-questions-pub2988/pub2988</a> 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 <a href="https://dnr.mo.gov/water/business-industry-other-entities/permits-certification-engineering-fees/stormwater/construction-land-disturbance">https://dnr.mo.gov/water/business-industry-other-entities/permits-certification-engineering-fees/stormwater/construction-land-disturbance</a> 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 <a href="https://dnr.mo.gov/water/business-industry-other-entities/permits-certification-engineering-fees/section-401-water-quality">https://dnr.mo.gov/water/business-industry-other-entities/permits-certification-engineering-fees/section-401-water-quality</a> 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 DEP	ARTMENT USE ONLY
APP NO.	CP NO.
FEE RECEIVED	CHECK NO.
DATE RECEIVED	

			DATE RECEIVED	
NOTE ► Please Read the accompanying	Instructions before completing	this form		
1.0 APPLICATION INFORMATION (Note – considered incomplete and returned.)			ered NO, this applic	ation may be
1.1 Is this a Federal/State funded project?	☐ YES ☑ N/A Funding Age	ency:	Pr	oject #:
1.2 Has the Department of Natural Resource  Type Date of Appr		s engineerin NO	g report*?	□ N/A
1.3 Is a copy of the appropriate plans* and s		pplication?	✓ YES □ NO	
If the project is using standard specifical	tions, name of community: N/A			
1.4 Is a summary of design* included with the	nis application? 🗹 YES 🗌 N	0		
1.5 Is the appropriate fee or JetPay confirmation See Section 7.0	ation included with this application	? ☑ YES	□ NO	
* Must be affixed with a Missouri registered	professional engineer's seal, signa	ture and dat	e	
2.0 PROJECT INFORMATION 2.1 NAME OF PROJECT		ele achione		
Blackberry Meadows Subdivision				
ADDRESS	CITY	STATE	ZIP CODE	COUNTY
S. Madison Avenue	Strafford	МО	65757	Greene
2.2 Legal Description: NW 1/4, SW	¼, NW ¼, Sec.4 ,	T 29	, R 20	
2.3 Project Components (check all that apply  ☐ Gravity sewers ☐ Pumping station  2.4 PROJECT DESCRIPTION  Construction of approximately 1,750 linear fe	ns Force mains Alterna	ative sewer s		Describe below.)
main, and 17 new manholes. New sanitary se	ewer mains will serve 94 single-fa	nily lots.		
2.5 DESIGN INFORMATION				
A. Population or number of lots to be served	d by this extension: 94 Units			
B. Estimated flow to be contributed by this e	extension: Design Average Flow:	29563 gpd	Design Peak Hou	rly Flow: 4920 gph
C. Industrial Wastes: Type:	Flow: gpd			
D. Receiving Sewer: Size: 10 inches	Capacity: 475 gpm			
E. Does this project (check all that apply):				
☑ Connect to an existing treatment plant		] Eliminate o	r consolidate an ex	sting treatment plant
F. Estimated number of onsite systems beir				
G: Estimated costs associated with piping:	\$ 290,000 Estimated costs	associated v	vith lift station(s): \$	
3.0 PROJECT OWNER		DEA CODE	LEMAN ADDRESS	<b>表有三字写真中,是一字在</b> 中,
Morelock Family Limited Partnership	417-864-6661		cwebster@more	ockbuilders.com
ADDRESS 722 W. Olive Street	Springfield	MO	65806	
CHARTER NUMBER (SECRETARY OF STATE) or REGISTERED				

MO 780-1632 (10-22)

4.0 CONTINUING AUTHORITY: A continuing for ensuring compliance with the permit required Continuing authority should be a relatively permit when needed, of the permitted facility or activation in the permittee to sample or operate analytical laboratory. To access the regulato Water Commission Chapter 6. A continuing (SoS's) webpage: Missouri Secretary of State required to register with the SoS.	irements a ermanent ovity. A con and mainta ry requirer authority's	and provide of entity respon- tinuing authorian the system ment regarding name must	continuous s isible for the ority is not, i m for a defii ng continuir be listed ex	stable overs congoing on however, and time per ag authority actly as it a	sight of the permitted facility or activity. The peration, maintenance and modernization, in entity or individual that is contractually eriod, such as a certified operator or 1, 10 CSR 20-6.010(2), please visit Clean appears on the Missouri Secretary of State's
NAME		TELEPHONE N	NUMBER WITH A	REA CODE	EMAIL ADDRESS
City of Strafford		417-736-21	154		ca@straffordmo.net
ADDRESS 126 S. Washington	Strafford			STATE MO	ZIP CODE 65757
CHARTER NUMBER (SECRETARY OF STATE)	Strainord			IWIO	03/3/
CONTRACTOR OF CO					
4.1 Has appropriate continuing authority acc A letter from the continuing authority accepti different than the original owner of the const Treatment Facility Acceptance" Form 780-25	ng respon ruction), o	sibility for cor r a properly e	ntinued mai exec <u>ute</u> d "C	ntenance o	of the sewer (if the continuing authority is Authority and Receiving Wastewater
5.0 ENGINEER	F7 1 1			251 2025	EMAIL ADDRESS
ENGINEER NAME / COMPANY NAME Tim Schowe / Cochran		417-595-41	NUMBER WITH A 108	REA CODE	tschowe@cochraneng.com
ADDRESS	Ozark			STATE MO	ZIP CODE 65721
2804 N. Biago Street  6.0 RECEIVING WASTEWATER TREATME		ITY	F# F  5 (F5 6)	IVIO	00721
NAME		TELEPHONE N	NUMBER WITH A	REA CODE	EMAIL ADDRESS
City of Springfield, Northwest Treatment Plan	nt	417-864-19	910		ekemper@springfiieldmo.gov
MO-0103039	Greene			1,520,000	
6.1 If different from the owner, has a letter by accept the expanded flow or has a properly MO 780-2584 form been provided? ✓ YE 6.2 A letter from the receiving wastewater tree. ✓ YES ☐ NO ☐ N/A	executed S	Continuing A O N/A	uthority and	d Receiving	Wastewater Treatment Facility Acceptance
6.3 If the receiving treatment plant or continu Certificate of Convenience and Necessity has	uing autho as been re	rity is regulat ceived?	ted by the F Yes – Date	ublic Servi :	ce Commission (PSC) for sewer activities, a
OPTIONAL QUESTIONS REGARDING MIL	LITARY SE	ERVICE			
Have you or an immediate family member edu.S. Armed Forces?			Ο,	⁄es	☑ No
If yes, would you like information about milita in Missouri?	ary-related	services	ο,	/es	☑ No
7.0 Application Fee			The second	25	
☑ Check Number					on Number
8.0 PROJECT OWNER: I certify under pena supervision in accordance with a system desubmitted. Based on my inquiry of the personal system of the penalties for subviolations.  PROJECT OWNER SIGNATURE	signed to a on or perso obmitted is	assure qualifi ons who man to the best	ied personn age the sys of my know	el properly tem, or tho ledge and l	gather and evaluate the information use persons directly responsible for belief, true, accurate and complete. I am
(V)					
PRINTED NAME					DATE 1.24.24
Crystal Webster		TELEBRIONE	NUMBER WITH	AREA CODE	EMAIL ADDRESS
TITLE OR CORPORATE POSITION  Developer		417-864-66		ANEX CODE	cwebster@morelockbuilders.com
Mail completed copy to	•	1 004 00			
MAII completed copy to:  MISSOURI DEPARTMENT OF NATURAL RESOURCES WATER PROTECTION PROGRAM PO BOX 176			Submit completed electronic copy to:  Missouri Department of Natural Resources at DNR.WPPEngineerSection@dnr.mo.gov		
JEFFERSON CITY, MO 6510	ソ-0176				

MO 780-1632 (10-22)

SEWER EXTENSION DESIGN CERTIFICATION: Answer all questions yes or N/A. Answer N/A only if the question is clearly not people-lable to the design of the proposed sewer extension.  REGULATION  8.110(3)(A)  8.110(3)(B)  Are average design flow based on actual flow data for an existing system?  2. 8.110(3)(B)  Are average design flows, peak hourly flows and liki contributions for new systems  2. □  8.110(9)(B)  Are average design flows, peak hourly flows and liki contributions for new systems  2. □  8.120(2)  Does the sewer exclude water from roofs, streets, groundwater from foundation drains and combined many proposed facilities?  5. 8.120(3)(A)  8.120(3)(A)  8.120(3)(A)  8.120(3)(A)  8.120(3)(A)  8.120(3)(A)  8.120(3)(A)  8.120(3)(B)  8.120(4)(C)  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 all clear and equal to the disenter for pipes exceed a deflection of 5% of the inside dismeter?  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 6°?  11. 8.120(4)(E)  8.120(4)(E)  8.120(4)(E)  12. 8.120(5)(A)  13. 8.120(5)(B)  14. 8.120(5)(A)  15. 9 between the end of a lateral instead of a manhole, they are a minimum diameter of binches or larger and equal to the disenter for pipes e 8°?  14. 8.120(5)(A)  15. 9 between the end of a lateral instead of a manhole, they are a minimum diameter of binches or larger and equal to the disenter for pipes e 8°?  16. 8.120(5)(E)  17. 8.120(5)(A)  18. 9 between the end of a lateral instead of a manhole, they are a minimum diameter of binches or larger and equal to the disenter for pipes e 8°?  19. 8.120(5)(B)  10. 9 resessure sewer free from physical connections to a potable water supply system and no water pipes come in contact with a sewer manihole for the prostation and esting for manholes?  19. 8.	9.0 SE	WER EXTENSION	N CHECKLIST		
1. 8.110(3)(A) Is the design flow based on actual flow data for an existing system?				clearly r	not
2. 8.110(3)(8) Are average design flows, peak hourly flows and l&l contributions for new systems calculated? 3. 8.110(9)(8) Is there a detailed plan showing tributary area, boundaries, pertinent elevations, topography, existing and proposed decilities? 4. 8.120(2) Does the aswer exclude water from roofs, streets, groundwater from foundation drains and combined wastewater. 5. 8.120(3)(A) Is plan pipe constructed with a slope to obtain mean velocities of not less than 2 feet per second? 6. 8.120(3)(A) Is all sewer pipe constructed with a slope to obtain mean velocities of not less than 2 feet per second? 7. 8.120(3)(A) Is all sewer pipe constructed with a slope to obtain mean velocities of not less than 2 feet per second? 8. 8.120(3)(A) Is the pipe covered with at least 36° of soil or sufficiently insulated to prevent freezing?  9. 8.120(4)(C) Is the pipe covered with at least 36° of soil or sufficiently insulated to prevent freezing? 9. 8.120(4)(C) Is the pipe covered with at least 36° of soil or sufficiently insulated to prevent freezing? 9. 8.120(4)(C) Are machines at least 42 inches in diameter with a clear opening of 22 inches on sewer and at all intersections? 9. 8.120(4)(C) Are machines at least 42 inches in diameter with a clear opening of 22 inches on sewer line larger than 8° street eleanouts 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°?  10. 8.120(4)(C) Are the manholes as well-defly, constructed and installed in accordance with the manufacturer's recommendations and procedures?  11. 8.120(4)(C) Are the manholes well-defly, constructed and installed in accordance with the manufacturer's recommendations and procedures?  12. 8.120(4)(E) Do the specifications include a requirement for inspection and testing for manholes?  13. 8.120(4)(E) Do seed to the service of the pressure sewer main pipe at least 1.5°?  14. 8.120(5)(B) Are severe and manholes located at least 30 feet horizontally from any existing or				YES	N/A
calculated?  calculated?  calculated?  calculated?  calculated?  combined wastering in the calculated plan showing tributary area, boundaries, pertinent elevations, topography, existing and proposed facilities?  combined wastewater?  combined	1.	8.110(3)(A)	Is the design flow based on actual flow data for an existing system?	V	
topography, existing and proposed facilities?  1. 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?  7. 8.120(3)(A): Is all sewer pipe constructed with a slope to obtain mean velocities of not less than 2 feet per second?  7. 8.120(3)(A): 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 disciplination of the street of the street of each line, at all changes in grade, size or alignment and at all intersections?  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"?  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??  12. 8.120(4)(E): Are the manholes watertight, constructed and installed in accordance with the manufacturer's recommendations and procedures?  13. 8.120(4)(F): Do the specifications include a requirement for inspection and testing for manholes?  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 sever manhole?  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?  16. 8.125(5)(A): Does the cleaning velocity of ≥ 2 ft/s happen more than once per day?  17. 8.125(5)(A): 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)(D): A residence – 1 grinder pumps.  20. 8.125(5)(D):	2.		calculated?	Ø	
combined wastewater?  5. 8.120(3)(A)   Is the pipe installation, embedment and backfill designed to prevent damage to the pipe and its joints?  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?  7. 8.120(3)(A)2   Is the pipe constructed with a slope to obtain mean velocities of not less than 2 feet per second?  8. 8.120(3)(A)2   Is the pipe covered with at least 38° of soil or sufficiently insulated to prevent freezing?  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 located at the end of each line, at all changes in grade, size or alignment and at all intersections?  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 87?  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 of pipes < 8°?  12. 8.120(4)(F)   Are the manholes wastertight, constructed and installed in accordance with the manufacture's recommendations and procedures?  13. 8.120(4)(F)   Do the specifications include a requirement for inspection and testing for manholes?  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?  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?  16. 8.125(6)(A)1. Does the cleaning velocity of 2 2 ft/s happen more than once per day?  17. 8.125(6)(A)2. Is the diameter of the pressure sewer main pipe at least 1.5°?  18. 8.125(6)(B)2. Are appurtenances compatible with the piping system?  19. 8.125(6)(B)2. Are included an experiment of a single equivalent dwelling unit (EDU)? i.e.   I residence - 1 grinder pump.  19. 8.125(6)(D)1. A residence - 1 grinder pump stat	3.	8.110(9)(B)	topography, existing and proposed facilities?	V	
and its joints?  and its joints?  All 20(3) (A)1 Is all sewer pipe constructed with a slope to obtain mean velocities of not less than 2 feet per second?  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"?  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"?  12. 8.120(4)(C) Are 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 of pipes < 8"?  12. 8.120(4)(F) Are the manholes waterlight, constructed and installed in accordance with the manufacturer's recommendations and procedures?  13. 8.120(4)(F) Do the specifications include a requirement for inspection and testing for manholes?  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?  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?  10. PRESSURE SEWERS, GRINDER PUMP, STEP AND STEG SEWER CHECKLIST  REGULATION  REGULATION  10. Set cleaning velocity of a 2 ft/s happen more than once per day?  11. 8.125(6)(A)2. Is the diameter of the pressure sewer main pipe at least 1.5"?  12. 8.125(6)(B)2. Are appurtenances compatible with the piping system?  12. 9. 8.125(6)(B)2. Are solution valves located: upstream of major pipe intersections; both sides of stream, bridge and RR crossings, at terminal end of system?  12. 9. 8.125(6)(D)1. A Pre multiple unit pump stations service only a single equivale	4.	8.120(2)	combined wastewater?	$\square$	
per second?    Second   Per second?	5.	8.120(3)(A)	, , ,	V	
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 located at the end of each line, at all changes in grade, size or alignment and at all intersections?  11. 8.120(4)(C) Where cleanouts are used at line end of a lateral instead of a manhole, they are a minimum diameter of 8 inches or larger and egual to the diameter for pipes < 8"?  12. 8.120(4)(E) Are the manholes sort swaterlight, constructed and installed in accordance with the manufacturer's recommendations and procedures?  13. 8.120(4)(F) Do the specifications include a requirement for inspection and testing for manholes?  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?  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?  10.0 PRESSURE SEWERS, GRINDER PUMP, STEP AND STEG SEWER CHECKLIST  REGULATION  16. 8.125(5)(A)1. Does the cleaning velocity of ≥ 2 ft/s happen more than once per day?  17. 8.125(5)(B)2. Is the diameter of the pressure sewer main pipe at least 1.5"?  18. 8.125(5)(B)2. 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?  20. 8.125(5)(D)1.A cost inperior pump.  21. 8.125(5)(D)1.B Are multiple unit pump stations service only a single equivalent dwelling unit (EDU)? i.e.	6.		per second?	V	
diameter?   diameter?   diameter?   diameter?   diameter?   diameter?   diameter?   diameter with a clear opening of 22 inches on sewer and at all intersections?   diameter with a clear opening of 22 inches on sewer line larger than 8°?   diameter of 8 inches or larger and equal to the diameter for pipes < 8°?   diameter of 8 inches or larger and equal to the diameter for pipes < 8°?   diameter of 8 inches or larger and equal to the diameter for pipes < 8°?   diameter of 8 inches or larger and equal to the diameter for pipes < 8°?   diameter of 8 inches or larger and equal to the diameter for pipes < 8°?   diameter of 8 inches or larger and equal to the diameter for pipes < 8°?   diameter of 8 inches or larger and equal to the diameter for pipes < 8°?   diameter of 8 inches or larger and equal to the diameter for pipes < 8°?   diameter of 8 inches or larger and equal to the diameter for pipes < 8°?   diameter of 8 inches or larger and equal to the diameter for pipes < 8°?   diameter of 8 inches or larger and equal to the diameter for pipes < 8°?   diameter of 8 inches or larger and equal to the diameter for pipes < 8°?   diameter of 8 inches or larger and equal to the diameter for pipes < 8°?   diameter of 8°.   diameter of 9 inches or larger and equal to the diameter for pipes < 8°?   diameter of 9 inches or larger and equal to the diameter for pipes < 8°?   diameter of 9 inches or larger and equal to the diameter for pipes < 8°?   diameter of 9 inches or larger pipes come in contact with a sewer manhole?   diameter of 9 pipes come in contact with a sewer manhole?   diameter or 10 pipes come in contact with a sewer manhole?   diameter or 10 pipes come in contact with a sewer manhole?   diameter or 10 pipes some in contact with a sewer manhole?   diameter or 10 pipes some in contact with a sewer manhole?   diameter or 10 pipes some in contact with a sewer manhole?   diameter or 10 pipes some in contact with a sewer manhole?   diameter or 10 pipes some in contact with a sewer manhole?   diameter or 10 pipes s	7.	8.120(3)(A)2	Is the pipe covered with at least 36" of soil or sufficiently insulated to prevent freezing?	V	
and at all intersections?    Are manholes at least 42 inches in diameter with a clear opening of 22 inches on sewer line larger than B"?   Are manholes at least 42 inches in diameter with a clear opening of 22 inches on sewer line larger than B"?   Are manholes are used at the end of a falteral instead of a manhole, they are a minimum diameter of 8 inches or larger and equal to the diameter for pipes < 8"?   Are the manholes watertight, constructed and installed in accordance with the manufacturer's recommendations and procedures?   Are the manholes watertight, constructed and installed in accordance with the manufacturer's recommendations and procedures?   Are the manholes watertight, constructed and installed in accordance with the manufacturer's recommendations and procedures?   Are the manufacturer's recommendations and procedures?   As 1.20(5)(K)   Do the specifications include a requirement for inspection and testing for manholes?   As 1.20(5)(K)   Is the sewer free from physical connections to a potable water supply system and no water pipes come in contact with a sewer manhole?   Are sewers and manholes located at least 50 feet horizontally from any existing or proposed water supply well, sources, structures?   As 1.20(5)(K)   Are sewers and manholes located at least 50 feet horizontally from any existing or proposed water supply well, sources, structures?   As 1.25(5)(A)   Does the cleaning velocity of ≥ 2 ft/s happen more than once per day?   YES N/A	8.	8.120(3)(B)		Ø	
line larger than 8"?			and at all intersections?	V	
diameter of 8 inches or larger and equal to the diameter for pipes < 8*?  12. 8.120(4)(E) Are the manholes watertight, constructed and installed in accordance with the manufacturer's recommendations and procedures?  13. 8.120(4)(F) Do the specifications include a requirement for inspection and testing for manholes? □ □  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?  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?  10.0 PRESSURE SEWERS, GRINDER PUMP, STEP AND STEG SEWER CHECKLIST  REGULATION  16. 8.125(5)(A)1. Does the cleaning velocity of ≥ 2 ft/s happen more than once per day? □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	10.	8.120(4)(C)	line larger than 8"?	$\square$	
manufacturer's recommendations and procedures?  13. 8.120(4)(F) Do the specifications include a requirement for inspection and lesting for manholes?  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?  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?  16. 8.125(5)(B) Are sewers, GRINDER PUMP, STEP AND STEG SEWER CHECKLIST  REGULATION YES N/IA  17. 8.125(5)(A)1. Does the cleaning velocity of ≥ 2 ft/s happen more than once per day?  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?  20. 8.125(5)(C) Do service line pipes have a minimum diameter of 1.25*?  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 pump.  22. 8.125(5)(D)1.B Are multiple unit pump stations owned, operated and maintained by an approved continuing authority?  23. 8.125(5)(D)3. Is there at least 70 gallons of storage in the grinder pump unit?  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?  25. 8.125(5)(D)7. 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)?  26. 8.125(5)(D)8. 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?  27. 8.125(6)(D) In a STEP system is at least one septic tank (1.0	11.	8.120(4)(C)			$\square$
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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?  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?  10.0 PRESSURE SEWERS, GRINDER PUMP, STEP AND STEG SEWER CHECKLIST  REGULATION  16. 8.125(5)(A)1. Does the cleaning velocity of ≥ 2 ft/s happen more than once per day?  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?  20. 8.125(5)(C) Do service line pipes have a minimum diameter of 1.25"?  21. 8.125(5)(D)1.A Do simplex grinder pump stations service only a single equivalent dwelling unit (EDU)? i.e. residence − 1 grinder pumpt.  22. 8.125(5)(D)1.B Are multiple unit pump stations service only a single equivalent dwelling unit (EDU)? i.e. residence − 1 grinder pumpt.  24. 8.125(5)(D)3. Is there at least 70 gallons of storage in the grinder pump unit?  25. 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?  25. 8.125(5)(D)7. Are units serviceable and replaceable under wet conditions without electrical hazard and is electrical equipment sullable for hazardous locations (National Electrical Code, Class I, Group D, Division 1 location)?  26. 8.125(6)(D)8. 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?  27. 8.125(6)(D)  28. 8.125(6)(E)  29. Are duplex pumps provided for the design flow of 1,500 gallons or greater?	13.	8.120(4)(F)	Do the specifications include a requirement for inspection and testing for manholes?	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?  10.0 PRESSURE SEWERS, GRINDER PUMP, STEP AND STEG SEWER CHECKLIST  REGULATION  16. 8.125(5)(A)1. Does the cleaning velocity of ≥ 2 ft/s happen more than once per day?  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?  20. 8.125(5)(C) Do service line pipes have a minimum diameter of 1.25"?  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 pump.  22. 8.125(5)(D)1.B Are multiple unit pump stations owned, operated and maintained by an approved continuing authority?  23. 8.125(5)(D)3. Is there at least 70 gallons of storage in the grinder pump unit?  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?  25. 8.125(5)(D)7. 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)?  26. 8.125(5)(D)8. 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?  27. 8.125(6)(D) Unith 20% of tank volume dedicatied to freeboard and ventillation?  28. 8.125(6)(F) Are duplex pumps provided for the design flow of 1.500 gallons or greater?	14.	8.120(5)(A)			
REGULATION   YES   N/A    16. 8.125(5)(A)1. Does the cleaning velocity of ≥ 2 ft/s happen more than once per day?   ✓    17. 8.125(5)(A)2. Is the diameter of the pressure sewer main pipe at least 1.5°?   ✓    18. 8.125(5)(B)2. 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?   ✓    20. 8.125(5)(C) Do service line pipes have a minimum diameter of 1.25°?   ✓    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.   ✓    22. 8.125(5)(D)1.B Are multiple unit pump stations owned, operated and maintained by an approved continuing authority?   ✓   ✓    23. 8.125(5)(D)3. Is there at least 70 gallons of storage in the grinder pump unit?   ✓   ✓   ✓    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?   ✓   ✓   ✓   ✓   ✓   ✓   ✓   ✓   ✓	15.	8.120(5)(B)	Are sewers and manholes located at least 50 feet horizontally from any existing or	Ø	
16. 8.125(5)(A)1. Does the cleaning velocity of ≥ 2 ft/s happen more than once per day?  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?  20. 8.125(5)(C) Do service line pipes have a minimum diameter of 1.25"?  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.  22. 8.125(5)(D)1.B Are multiple unit pump stations owned, operated and maintained by an approved continuing authority?  23. 8.125(5)(D)3. Is there at least 70 gallons of storage in the grinder pump unit?  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?  25. 8.125(5)(D)7. 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)?  26. 8.125(5)(D)8. 8.125(5)(D)8. 8.125(5)(D)8. 8.125(5)(D)9. 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?  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 dedicated to freeboard and ventillation?  28. 8.125(6)(F) Are duplex pumps provided for the design flow of 1,500 gallons or greater?	10.0 P	,			S AND
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?  20. 8.125(5)(C) Do service line pipes have a minimum diameter of 1.25"?  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.  22. 8.125(5)(D)1.B Are multiple unit pump stations owned, operated and maintained by an approved continuing authority?  23. 8.125(5)(D)3. Is there at least 70 gallons of storage in the grinder pump unit?  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?  25. 8.125(5)(D)7. 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)?  26. 8.125(5)(D)8. 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?  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?  28. 8.125(6)(F) Are duplex pumps provided for the design flow of 1,500 gallons or greater?	- 10			YES	
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?  20. 8.125(5)(C) Do service line pipes have a minimum diameter of 1.25"?  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.  22. 8.125(5)(D)1.B Are multiple unit pump stations owned, operated and maintained by an approved continuing authority?  23. 8.125(5)(D)3. Is there at least 70 gallons of storage in the grinder pump unit?  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?  25. 8.125(5)(D)7. 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)?  26. 8.125(5)(D)8., 8.125(5)(D)8., 8.125(5)(D)8. 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?  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 ventililation?  28. 8.125(6)(F) Are duplex pumps provided for the design flow of 1,500 gallons or greater?					-
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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?  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)?  26. 8.125(5)(D)8., 8.125(5)(D)8., 8.125(2)(F)6. by providing standby power, storage capacity, or interconnection with another disposal system?  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?  28. 8.125(6)(F) Are duplex pumps provided for the design flow of 1,500 gallons or greater?	22.	8.125(5)(D)1.B			Ø
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8.130(3)(B)2. electrical equipment suitable for hazardous locations (National Electrical Code, Class I, Group D, Division 1 location)?  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?  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?	24.	8.125(5)(D)4.			Ø
8.125(2)(F)6. by providing standby power, storage capacity, or interconnection with another disposal system?  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?  28. 8.125(6)(F) Are duplex pumps provided for the design flow of 1,500 gallons or greater?	25.	8.130(3)(B)2.	electrical equipment suitable for hazardous locations (National Electrical Code, Class I, Group D, Division 1 location)?		Ø
EDU with 20% of tank volume dedicatied to freeboard and ventillation?  28. 8.125(6)(F) Are duplex pumps provided for the design flow of 1,500 gallons or greater?	26.	8.125(2)(F)6.	by providing standby power, storage capacity, or interconnection with another disposal system?		
28. 8.125(6)(F) Are duplex pumps provided for the design flow of 1,500 gallons or greater?	27.	8.125(6)(D)			V
					<b>V</b>

Telep	hone Number with	Area Code: 417-59	5-4108	Email:tschowe@coch	raneng.com		
City: 0	Ozark		State: MO		ZIP Code: 65721		
Addre	ess: 2804 N. Biagi	o Street					
Name	Tim Schowe			100	ONAL EN		
Misso	uri Professional E	ngineer's seal, signa	iture and date:	* PROFES	NUMBER PE-2018000268		
					TIMOTHY E		
engine	eer.		d public sewer main.				
		ON CHECKLIST C	CERTIFICATION STAT		al comments regarding desig	n for rev	/iew
44.	8.130(5)(A)	Are submersible pumps readily removable and replaceable without personnel entering, or disconnecting any pipe in the wet well?					
43.	8.130(4)(B)	positive suction head at design operating conditions less than or equal to 22 feet?  Are there dual vacuum pumps capable of removing air from the suction lift pump?					
41.	8.130(4) 8.130(4)(A)	Is the combined to	tal of dynamic suction l	lift at the "pump off" ele	evation and required net		
41.	REGULATION	Asa the guation lift	pumps of the self primi	ing or vacuum priming	type?	YES	N/A
12.0 5	1		SIBLE PUMP STATION	N CHECKLIST			
40.	8.130				ons provided that include and spare parts that may be		Z
39.	8.130(8)(A)		pump station at its rate elocity of ≥ 2 ft/s maint			П	V
38.	8.130(7)(B)	Are there independ		provided for emergenc	ਹੈ? y power capable of starting		
37.	8.130(7)(A)	1	•		w > 100,000 gpd or 4 hrs	H	V
36.	8.130(6)	· ·	provided with uninterr			片	V
34. 35.	8.130(3)(F) 8.140(8)(J) 8.130(3)(G)	•	ells have separate venti		40(7)(D)?		V
33	8.130(3)(D)	Are valves located outside wet well unless integral to a pump or its housing?					V
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?					Z
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?				V	
30.	8.130(2)(A) 8.140(2)(B)	Is the pump station designed to withstand the 100-year flood?				V	
29.	8.125(7)(C)	Is the minimum dia	meter sewer main pipe	and service line of ST	EG sewer at least 4"?		V

### INSTRUCTIONS FOR COMPLETING APPLICATION FOR CONSTRUCTION PERMIT – SEWER EXTENSION

All blanks must be filled in when the application is submitted to the Missouri Department of Natural Resources. This includes the required signature. The fee for a sewer extension construction permit is \$300.

In accordance with Missouri State law RSMo 644.051.3.(2), sewer extension projects installing up to a total of 1,000 linear feet of gravity sewer or force main with less than two pump stations are exempt from obtaining a construction permit. Since these projects are exempt, a construction permit will not be issued for this activity and completion of this form is not required.

Note: Use the form Application for Construction Permit – Wastewater Treatment Facility Application for Construction Permit – Sewer Extension MO 780-1632, if any wastewater treatment component(s) are to be constructed.

A land disturbance permit is required if construction will result in the disturbance of one or more acres of land. A land disturbance permit (MO-RA00000) is available through the department's ePermitting system at <u>ePermitting Splash Page</u>. A permit fee in accordance with 10 CSR 20-6.011(2)(E) is required.

After receiving a complete application, the department enters the application information into the Missouri Clean Water Information System. You may search for the status of a construction permit online at MoCWIS Application Search.

- 1.1 Check appropriate box. If the project is funded with federal or state monies, supply the funding agency name and project number.
- 1.2 Check appropriate box and provide the date of department approval.

  The department has developed a fact sheet to aid in the development of an approvable engineering report, Engineering Report Guidance for Collection Systems, Fact Sheet--PUB2415. This document is available online at Engineering Report Guidance for Collection Systems With a Design Flow of 22,500 Gpd of Greater. Engineering report exemptions are listed in 10 CSR 20-6.010(4)(B). Per 10 CSR 20-8.110(2), engineering reports must be approved by the department prior to the submittal of plans and specifications and a construction permit application.
- 1.3 Check appropriate box. Provide a copy of the appropriate plans and specifications for department review when applying for a construction permit per 10 CSR 20-8.110 and 10 CSR 20-6.010. A Missouri registered professional engineering seal, signature and date is required on each sheet of the plans and the cover of the technical specifications. An electronic copy of the construction permit application and the information listed below in Portable Document Format (PDF) searchable format or department approved equivalent per 10 CSR 20-6.010(5)(G), along with one paper copy for projects not seeking department funding or two paper copies for projects seeking department funding under 10 CSR 20-4. If the project is relying on approved standard specifications from a particular municipality, provide the name of the community. The communities with department-approved standard specifications is available online at <a href="Wastewater Construction Permits and Engineering Regulations">Wastewater Construction Permits and Engineering Regulations</a>
- 1.4 Check appropriate box. A summary of design shall accompany the plans and specifications when applying for a construction permit per 10 CSR 20-8.110. The department has developed a fact sheet to aid in the development of an acceptable summary of design, Summary of Design Guidance, Fact Sheet--PUB2417. This document is available online at Summary of Design Guidance for Wastewater Treatment Facilities PUB2417.
- 1.5 Check the appropriate box. Include fee with application per 10 CSR 20-6.011(2) and Wastewater Treatment Facility Permit Fees -- PUB2564.
- Note: The department returns incomplete construction permit applications and related engineering documents and the application forfeits the fees. See 10 CSR 20-6.011(5)(A). The applicant forfeits the fees when the applicant withdraws construction applications. See 10 CSR 20-6.011(5)(B).2.1. Provide the project name and location by street name or address.
- 2.1. Provide the project name and location by street name or address.
- 2.2 Provide the project legal description. The department's mapping system is available online at MAPIT ARCGIS.
- 2.3 Check all of the applicable boxes.

  The department considers anything other than a gravity sewer system to be an alternative sewer system. Examples of these systems are grinder pump pressure sewers, septic tank effluent pump, or STEP, sewers, septic tank effluent gravity, or STEG, sewers or small diameter gravity sewers.
- 2.4 Briefly describe the project by providing the following information:
  - A. Total number of manholes.
  - B. Size of sewers and the total linear feet of each size.
  - C. Number of lift stations and design average flow and peak hourly flow capacities of each lift station.
  - D. Size and length of force mains.
  - E. Alternative sewer size and length, plus the number of components (e.g. septic tanks, grinder pumps, etc.)
- 2.5 Provide the project design information and when required in the units specified:
  - A. Provide the population or number of lots to be served by the proposed sewer extension.
  - B. Provide the estimated design flow information in accordance with 10 CSR 20-8.110(4)(C)4.A.
    - Design average flow The design average flow is the average of the daily volumes to be received for a
      continuous 12 month period expressed as a volume per unit time. However, the design average flow for
      facilities having critical seasonal high hydraulic loading periods (e.g., recreational areas, campuses and
      industrial facilities) shall be based on the daily average flow during the seasonal period.
    - Design peak hourly flow The design peak hourly flow is the largest volume of flow to be received during a one hour period expressed as a volume per unit time.
  - C. Provide the type and flow in gallons per day of industrial wastes received by the propose sewer extension.

- D. Provide the receiving sewer size in inches and capacity in gallons per minute.
- E. Check all of the applicable boxes.
- F. Provide an estimate of the number of onsite systems decommissioned as a result of the project.
- G: Provide estimated cost (design, materials, land, and labor) for installation of piping and pump station(s).
- 3.0 Project Owner Provide the legal name, mailing address, phone number and email address of the owner of the regulated activity or discharge. The owner identified in this section and subsequently reflected on the certificate page of the operating permit should be the owner of the regulated activity/discharge being applied for and is not necessarily the owner of the real property on which the activity or discharge is occurring. Also provide Charter Number of Project Owner from Secretary of State or name of Registered agent to comply with 10 CSR 20-6.010(2)(E) which states: "Private corporations which are not incorporated under the laws of Missouri shall be represented by a registered agent in the state of Missouri before a construction permit or an operating permit will be issued by the department."
- Continuing Authority A continuing authority is a company, business, entity, or person(s) that will be legally responsible for ensuring compliance with the permit requirements and provide continuous stable oversight of the permitted facility or activity. The Continuing authority should be a relatively permanent entity responsible for the ongoing operation, maintenance and modernization, when needed, of the permitted facility or activity. 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 view the regulatory requirement regarding continuing authority, 10 CSR 20-6.010(2), please visit Department of Natural Resources Division 20-Clean Water Commission Chapter 6-Permits. A continuing authority's name must be listed exactly as it appears on the Missouri Secretary of State's (SoS's) webpage: Missouri Secretary of State Business Entity Search, unless the continuing authority is an individual(s), government entity, or otherwise not required to register with the SoS. Provide charter number listed on SoS's webpage, if applicable. If the Continuing Authority is the same as the Project Owner, write "Same as above".
- Check appropriate box. Include a letter signed by the continuing authority (if not the same as the project owner) stating they will "accept, operate, and maintain" the sewer extension. The continuing authority may complete the "Continuing Authority and Receiving Wastewater Treatment Facility Acceptance" form in lieu of a letter. Download the department's form Continuing Authority Receiving Wastewater Treatment Facility Acceptance-Mo 780-2584. If the continuing authority will not accept and agree to operate and maintain the sewer extension, this application will be considered incomplete.
- 5.0 Complete Engineer contact information.
- 6.0 Complete Receiving Wastewater Treatment Facility information. Include the Missouri State Operating Permit number and the available remaining capacity in gallons per day, or gpd.
- 6.1 Check appropriate box. The receiving wastewater treatment facility must be notified and agree to the proposed sewer extension and additional flow, prior to submitting a construction permit to the department.
  If the receiving wastewater treatment facility will not accept the wastewater, this application will be considered incomplete.
- 6.2 Check appropriate box. Include a letter from the receiving wastewater treatment facility (if not same as the continuing authority) acknowledging and accepting the additional flow from the proposed sewer extension.
- 6.3 Check appropriate box. The Certificate of Convenience and Necessity (CCN) is granted by the Public Service Commission to for-profit companies to provide sewer services. 10 CSR 20-6.010(2)(B)3 requires the CCN be granted prior to applying for a permit from the department.
- 7.0 Check the appropriate box and include check or confirmation number. Applicants can pay fees online by credit card or eCheck through a system called JetPay. See <u>Water Permit Fees</u>. Clicking on the JetPay link you can make a one-time payment by selecting the "Water Protection Program" as the Payment Category and WP 04 Construction Permits as the Payment Type. The system then asks for Wastewater Permit Number (which is "construction") and Facility/Project name (which is the name of this project given in question 2.0). The fee for sewer extension review is \$300.
  - Per Section 37.001, RSMo, a transaction fee will be included. The transaction fee is paid to the third party vendor JetPay, not the Department of Natural Resources.
  - Be sure to select the correct fee type and corresponding URL to ensure your payment is applied appropriately. If you
    are unsure what type of fee to pay, contact the Water Protection Program's Budget, Fees and Grants Management
    Unit by phone at 573-522-1485 for assistance.
  - Upon successful completion of your payment, JetPay provides a payment confirmation. Submit this form with a copy
    of the payment confirmation if requesting a new permit or a permit modification.
  - If you are unable to make your payment online, but want to pay with credit card, you may email your name, phone
    number, and invoice number, if applicable, to <u>WPPFES@dnr.mo.gov</u>. The Budget, Fees and Grants Management
    Unit will contact you to assist with the credit card payment. Please do not include your credit card information in
    the email.
  - Applicants can find fee rates for various activities in 10 CSR 20-6.011 and <u>Wastewater Treatment Facility Permit</u> Fees-- PUB2564.
- 8.0 The owner of the construction project must sign the application per 10 CSR 20-6.010(5)(G).

  Mail the completed form, related construction documents and applicable fee (or JetPay receipt) to the department. Also provide the application, plans and specifications in PDF searchable format via external media drive or email if size allows. Email information to DNR.WPPEngineerSection@dnr.mo.gov.

#### 9.0-13.0 Sewer Extension Checklist

This portion of the application is optional, but completing it is recommended because it can speed review. If designed properly, the engineer preparing the application should be able to answer "Yes" or "Not Applicable" (N/A) for each of the items. If an answer of "N/A" is necessary, section 13.0 provides a place to provide any explanation or useful comments. Section 13.0 also requires those completing the Sewer Extension Checklist (9.0 – 13.0) to properly sign, seal and date the checklist. If there are any questions concerning this form, contact the Department of Natural Resources, Water Protection Program at 800-361-4827 or 573-751-1300, or visit Wastewater Construction Permits and Engineering.