STATE OF MISSOURI DEPARTMENT OF NATURAL RESOURCES

MISSOURI CLEAN WATER COMMISSION



GENERAL PERMIT for SEWER EXTENSION CONSTRUCTION

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

Construction Permit ID:	MOGSE0460
Title of Project:	Jackson Drive Industrial Park
Owner:	Auto Beauty Center
Address:	3020 S. Jackson Dr.
	INDEPENDENCE, MO 64057

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: Jackson Receiving Permit ID: MO0101087

for the construction of (described construction project):

Jackson Drive Industrial Park - Construction of approximately 1153 lf of 10-inch and approximately 1190 lf of 8-inch PVC SDR-26 with approximately 10 manholes to serve a 78 PE and a design average flow of 7800 gpd.

Project is in the vicinity of 2000 S Jackson Drive in Independence, Jackson County and discharges to an existing system to be treated at the Atherton WWTF, MO-0101087. David Lilly, District Engineer, with the Atherton WWTF provided an acceptance letter dated December 21, 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.

March 24, 2023 Issue Date

John Hoke, Chief, Water Pollution Control Branch Water Protection Program

January 02, 2025 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<u>www.dnr.mo.gov/env/wpp/epermit/help.htm</u>.

See <u>www.dnr.mo.gov/env/wpp/stormwater/sw-land-disturb-permits.htm</u> 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 <u>www.dnr.mo.gov/env/wpp/401/</u> 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

APPLICATION FOR CON		-	APP NO.	CP NO.	"Y
			FEE RECEIVED	CHECK NO.	
			DATE RECEIVED	3	*****************
NOTE > PLEASE READ THE ACCOMPAN					
I.0 APPLICATION INFORMATION (Note – considered incomplete and returned)	If any of the questions in this	section are ans	wered NO, this a	pplication may be	
1.1 Is this a Federal/State funded project?	TYES N/A Fundin	g Agency:		Project #:	
1.2 Has the Department of Natural Resource YES Date of Approval:	es approved the proposed pro	oject's engineerir	ng report*?		
1.3 Is a copy of the appropriate plans* and s	specifications* included with th	nis application?		0	
1.4 Is a summary of design* included with the	nis application?	V NO			
1.5 Is the appropriate fee or JetPay confirm See Section 7.0	ation included with this applica	ation? 🛛 YES	□ NO		
* Must be affixed with a Missouri registered r	professional engineer's seal, s	signature and da	te.		
2.0 PROJECT INFORMATION					
ACKSON DR INDUSTRIAL PARK					
ADDRESS 2000 S JACKSON DR		STATE MO	ZIP CODE 64057		
	14, NW 14, Sec. 16	, T ₄₉ , R		JACKSON	
Gravity sewers Pumping station PROPOSED INSTALATION OF 2,343 L.F. C	ns Force mains Al	ternative sewer s		er (Describe below.) OT INDUSTRIAL	
2.3 Project Components (check all that appled Gravity sewers Pumping station 2.4 PROJECT DESCRIPTION PROPOSED INSTALATION OF 2,343 L.F. Component of SUBDIVISION 2.5 DESIGN INFORMATION A. Population or number of lots to be served	ns	0 MAN HOLES			
Gravity sewers Pumping station PROJECT DESCRIPTION PROPOSED INSTALATION OF 2,343 L.F. C SUBDIVISION 2.5 DESIGN INFORMATION	DF 8" GRAVITY MAIN WITH 1	0 MAN HOLES	TO SERVE A 6 L	OT INDUSTRIAL	jph
Gravity sewers Pumping station PROJECT DESCRIPTION PROPOSED INSTALATION OF 2,343 L.F. C SUBDIVISION A. Population or number of lots to be served B. Estimated flow to be contributed by this e	DF 8" GRAVITY MAIN WITH 1	0 MAN HOLES	TO SERVE A 6 L	OT INDUSTRIAL	ph
Gravity sewers Pumping station Gravity sewers Pumping station PROJECT DESCRIPTION PROPOSED INSTALATION OF 2,343 L.F. C SUBDIVISION Su	ns Force mains Al DF 8" GRAVITY MAIN WITH 1 d by this extension: 6 INDUST extension: Design Average F Flow: gpd	0 MAN HOLES	TO SERVE A 6 L	OT INDUSTRIAL	iph
Gravity sewers Pumping station Gravity sewers Pumping station APROJECT DESCRIPTION PROPOSED INSTALATION OF 2,343 L.F. C SUBDIVISION SubDIVISION A. Population or number of lots to be served S. Estimated flow to be contributed by this e C. Industrial Wastes: Type: DOMESTIC D. Receiving Sewer: Size: 8 inches S.0 PROJECT OWNER	ns Force mains Al DF 8" GRAVITY MAIN WITH 1 d by this extension: 6 INDUST extension: Design Average F Flow: gpd s Capacity:425 gpm	RIAL 'low: 7,800 gpd	TO SERVE A 6 L Design Peak H	OT INDUSTRIAL	iph
Gravity sewers Pumping station Gravity sewers Pumping station A PROJECT DESCRIPTION SUBDIVISION SubDIVISI	ns Force mains Al DF 8" GRAVITY MAIN WITH 1 d by this extension: 6 INDUST extension: Design Average F Flow: gpd	RIAL 'low: 7,800 gpd	TO SERVE A 6 L Design Peak H	OT INDUSTRIAL	lph
Gravity sewers Pumping station A PROJECT DESCRIPTION PROPOSED INSTALATION OF 2,343 L.F. C SUBDIVISION A. Population or number of lots to be served B. Estimated flow to be contributed by this e C. Industrial Wastes: Type: DOMESTIC D. Receiving Sewer: Size: 8 inches 3.0 PROJECT OWNER NAME AUTO BEAUTY CENTER (JERMEY HULL) ADDRESS	ns Force mains Al DF 8" GRAVITY MAIN WITH 1 d by this extension: 6 INDUST extension: Design Average F Flow: gpd s Capacity:425 gpm TELEPHONE NUMBER V 816-918-6254 CITY	IO MAN HOLES RIAL Now: 7,800 gpd	Design Peak H	OT INDUSTRIAL	ıph
Gravity sewers Pumping station Gravity sewers Pumping station APROJECT DESCRIPTION PROPOSED INSTALATION OF 2,343 L.F. C SUBDIVISION SUBDIVISION A. Population or number of lots to be served B. Estimated flow to be contributed by this e C. Industrial Wastes: Type: DOMESTIC D. Receiving Sewer: Size: 8 inches 3.0 PROJECT OWNER VAME NUTO BEAUTY CENTER (JERMEY HULL) NDDRESS 1020 S JACKSON DR	INS Force mains All DF 8" GRAVITY MAIN WITH 1 DF 8" GRAVITY MAIN WITH 1	IO MAN HOLES RIAL Now: 7,800 gpd	Design Peak H Design Peak H EMAIL ADDRESS jhull@hullmar ZIP CODE 64057	OT INDUSTRIAL	
Gravity sewers Pumping station A PROJECT DESCRIPTION PROPOSED INSTALATION OF 2,343 L.F. C SUBDIVISION A. Population or number of lots to be served B. Estimated flow to be contributed by this e C. Industrial Wastes: Type: DOMESTIC D. Receiving Sewer: Size: 8 inches 3.0 PROJECT OWNER NAME AUTO BEAUTY CENTER (JERMEY HULL) ADDRESS 4020 S JACKSON DR 4.0 CONTINUING AUTHORITY: A continuin or ensuring compliance with the permit required to required to reg visit https://s1.sos.mo.gov/BusinessEntity/BESe government, or otherwise not required to requ	ns ☐ Force mains ☐ Al DF 8" GRAVITY MAIN WITH 1 d by this extension: 6 INDUST extension: Design Average F Flow: gpd s Capacity:425 gpm TELEPHONE NUMBER V 816-918-6254 CITY INDEPENDENCE ng authority is a company, bus irements A continuing author te or operate and maintain the the regulatory requirement reg es/csr/current/10csr/10c20-6.1 p's (SoS's) webpage: arch asox?Search Type=0. un	IO MAN HOLES RIAL Iow: 7,800 gpd NITH AREA CODE STATE MO siness, entity or p ity is not, howev o system for a de garding continuing pdf. A continuing	TO SERVE A 6 L Design Peak F EMAIL ADDRESS jhull@hullmar ZIP CODE 64057 Derson(s) that will er, an entity or in fined time period g authority, 10 C a uthority's name	OT INDUSTRIAL fourly Flow: 975 g klic.com be operating the faci dividual that is , such as a certified SR 20-6.010(2), please a must be listed exact	ility
Gravity sewers Pumping station A PROJECT DESCRIPTION PROPOSED INSTALATION OF 2,343 L.F. C SUBDIVISION A. Population or number of lots to be served B. Estimated flow to be contributed by this e C. Industrial Wastes: Type: DOMESTIC D. Receiving Sewer: Size: 8 inches 3.0 PROJECT OWNER VAME AUTO BEAUTY CENTER (JERMEY HULL) ADDRESS 020 S JACKSON DR 1.0 CONTINUING AUTHORITY: A continuin or ensuring compliance with the permit required contractually hired by the permittee to sample perator or analytical laboratory. To access I visit https://s1.sos.mo.gov/Ensinages/adrul t appears on the Missouri Secretary of State output: Autometary in the mean of the means on the Missouri Secretary of State mate means on the Missouri Secretary of State mate mean of the mean of t	Ins Force mains All DF 8" GRAVITY MAIN WITH 1 DF 9" GRAVITY MAIN WITH 1 DF 8" GRAVITY AND THE 1 D	IO MAN HOLES	TO SERVE A 6 L Design Peak F EMAIL ADDRESS jhull@hullmar ZIP CODE 64057 Derson(s) that will er, an entity or in fined time period g authority, 10 C a uthority's name	OT INDUSTRIAL Hourly Flow: 975 g rkllc.com be operating the faci dividual that is , such as a certified SR 20-6.010(2), please a must be listed exact in individual(s),	ility
Gravity sewers Pumping station A PROJECT DESCRIPTION PROPOSED INSTALATION OF 2,343 L.F. C SUBDIVISION A. Population or number of lots to be served B. Estimated flow to be contributed by this e C. Industrial Wastes: Type: DOMESTIC D. Receiving Sewer: Size: 8 inches 3.0 PROJECT OWNER VAME AUTO BEAUTY CENTER (JERMEY HULL) ADDRESS 020 S JACKSON DR 1.0 CONTINUING AUTHORITY: A continuin or ensuring compliance with the permit requi contractually hired by the permittee to sample prevator or analytical laboratory. To access to visit https://s1.sos.mo.gov/Cmsimages/adrul t appears on the Missouri Secretary of State nutps://bsd.sos.mo.gov/BusinessEntity/BESe government, or otherwise not required to reg vAME LEX LOPEZ NDDRESS	Ins Force mains All PF 8" GRAVITY MAIN WITH 1 DF 8" GRAVITY AND THE 1 D	IO MAN HOLES RIAL Iow: 7,800 gpd MITH AREA CODE STATE MO siness, entity or p ity is not, howev system for a de garding continuing pdf. A continuing illess the continu vith AREA CODE STATE	TO SERVE A 6 L Design Peak H EMAIL ADDRESS jhull@hullmar ZIP CODE 64057 Derson(s) that will er, an entity or in fined time period g authority, 10 C authority's name ing authority is an EMAIL ADDRESS alopez@inder	OT INDUSTRIAL Hourly Flow: 975 g tkllc.com be operating the faci dividual that is , such as a certified SR 20-6.010(2), please a must be listed exact in individual(s), perfilmo,org	ility se sly as
Gravity sewers Pumping station Gravity sewers Pumping station A PROJECT DESCRIPTION ROPOSED INSTALATION OF 2,343 L.F. C SUBDIVISION S	ns ☐ Force mains ☐ Al DF 8" GRAVITY MAIN WITH 1 d by this extension: 6 INDUST extension: Design Average F Flow: gpd s Capacity:425 gpm TELEPHONE NUMBER V 816-918-6254 CITY INDEPENDENCE ig authority is a company, bus irements: A continuing author te or operate and maintain the the regulatory requirement rege es/csr/current/10csr/10c20-6, jor 's (SoS's) webpage: barch.aspx?SearchType=0, un jister with the SoS. TELEPHONE NUMBER V 816-325-7636 CITY INDEPENDENCE	IO MAN HOLES	TO SERVE A 6 L Design Peak H EMAIL ADDRESS jhull@hullmar ZIP CODE 64057 Derson(s) that will er, an entity or in fined time period g authority is name ing authority is name ing authority is an EMAIL ADDRESS alopez@indej ZIP CODE 64050	OT INDUSTRIAL fourly Flow: 975 g kilc.com be operating the faci dividual that is , such as a certified SR 20-6.010(2), pleas a must be listed exact in individual(s), perfilmo,org	illity se lly as

ENGINEER NAME / COMPANY NAME	and the second second			
		TELEPHONE NUMBER WITH	AREA CODE	EMAIL ADDRESS
ROBERT WALQUIST / QUIST ENG	INEERING INC	816-550-5675		rwalquist@quistengineering.com
ADDRESS	CITY		STATE	ZIP CODE
321 NE COLUMBUS ST	LEE'S S	UMMIT	MO	64063
6.0 RECEIVING WASTEWATER T	REATMENT FACI	LITY		
NAME		TELEPHONE NUMBER WITH	AREA CODE	EMAIL ADDRESS
ATHERTON WASTWATER TREAT	MENT FACILITY	816-796-7660		lilly@lbvsd.org
MISSOURI STATE OPERATING PERMIT #		REMAINING CAPACITY (GPD)	
MO-0101087		22 MILLION GPD		
6.1 Has the receiving treatment fac	ility agreed to acce	pt the additional waste	water flow?	Z YES NO
6.2 A letter from the receiving waste	ewater treatment f	acility, if different than th	ne continuin	g authority, is included with this application
7.0 Application Fee				
Check Number		□Je	tPay Confirr	nation Number
		that this document and	all attachme	
supervision in accordance with a sy submitted. Based on my inquiry of t gathering the information, the inform aware that there are significant pen	stem designed to the person or personation submitted is	that this document and assure that qualified pe ons who manage the sy , to the best of my know	all attachme rsonnel prop stem, or tho vledge and t	ents were prepared under my direction o erly gather and evaluate the information
supervision in accordance with a sy submitted. Based on my inquiry of t gathering the information, the inform aware that there are significant pen knowing violations.	stem designed to the person or personation submitted is	that this document and assure that qualified pe ons who manage the sy , to the best of my know	all attachme rsonnel prop stem, or tho vledge and t	ents were prepared under my direction o erly gather and evaluate the information se persons directly responsible for pelief, true, accurate, and complete. I am ssibility of fine and imprisonment for
Supervision in accordance with a sy submitted. Based on my inquiry of t gathering the information, the inform aware that there are significant pen knowing violations. PROJECT DWNER SIGNATORE PRINTED NAME	stem designed to the person or personation submitted is	that this document and assure that qualified pe ons who manage the sy , to the best of my know	all attachme rsonnel prop stem, or tho vledge and t	ents were prepared under my direction o erly gather and evaluate the information se persons directly responsible for pelief, true, accurate, and complete. I am
Supervision in accordance with a sy submitted. Based on my inquiry of it gathering the information, the inform aware that there are significant pen knowing, violations. PROJECT OWNER SIGNATIVE PRINTED NAME JEROMY HULL	stem designed to the person or personation submitted is	that this document and assure that qualified pe ons who manage the sy , to the best of my know	all attachme rsonnel prop stem, or the vledge and t uding the po	ents were prepared under my direction or erly gather and evaluate the information se persons directly responsible for belief, true, accurate, and complete. I am ssibility of fine and imprisonment for
supervision in accordance with a sy submitted. Based on my inquiry of t gathering the information, the inform	stem designed to the person or personation submitted is	that this document and assure that qualified pe ons who manage the sy , to the best of my knov g false information, inclu	all attachme rsonnel prop stem, or the vledge and t uding the po	ents were prepared under my direction o erly gather and evaluate the information se persons directly responsible for pelief, true, accurate, and complete. I am ssibility of fine and imprisonment for DATE 11-30-22
Supervision in accordance with a sy submitted. Based on my inquiry of t gathering the information, the inform aware that there are significant pen knowing violations. PROJECT DWNER SIGNATORE JEROMY HULL TITLE OR COPORATE POSITION OWNER Mail completed copy to: M W	rstem designed to the person or person nation submitted is alties for submittin	that this document and assure that qualified per ons who manage the sy to the best of my know g false information, inclu and the best of my know and the best of my know an	all attachme rsonnel prop stem, or tho vledge and t uding the po	DATE DATE 11-30-22 EMAIL ADDRESS jhull@hullmarkllc.com

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**.

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, MO 780-2189, 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 is available through the department's ePermitting system at <u>dnr.mo.gov/env/wpp/epermit/help.htm</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 <u>https://apps5.mo.gov/mocwis_public/applicationInprocessSearch.do</u>.

- 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. This document is available online at dnr.mo.gov/pubs/pub2415.htm. 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. The department has developed a fact sheet to aid in the development of an approvable engineering report, <u>Engineering Report Guidance for Collection Systems</u>, Fact Sheet--PUB2415.
- 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.
- 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, <u>Summary of Design Guidance</u>, Fact Sheet--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.
- 2.2 Provide the project legal description. The department's mapping system is available online at dnr.mo.gov/gis/.
- 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.
- 3.0 Complete Project Owner information. Include the legal name and address.
- 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

http://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. If same as the Project Owner, write "Same as above".

- 4.1 Check appropriate box. Include a letter signed by the continuing authority (if not same as the project owner) stating they will "accept, operate and maintain" the sewer extension. The continuing authority may also complete the Continuing Authority and Receiving Wastewater Treatment Facility Acceptance form in lieu of a letter. 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.
- 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.
 - 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, please 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. For permit
 renewals of active permits, the Department will invoice fees annually in a separate request.
 - 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>WPPFEES@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 in 10 CSR 20-6.011 and Wastewater Treatment Facility Permit Fees-PUB2564 (https://dnr.mo.gov/pubs/pub2564.htm).

WP 04 Construction Permits: <u>https://magic.collectorsolutions.com/magic-ui/payments/mo-natural-resources/592/</u>
 8.0 The owner of the construction project must sign the application.

Mail the completed form and applicable fee to the department.

If there are any questions concerning this form, please contact the Department of Natural Resources, Water Protection Program at 800-361-4827 or 573-751-1300 or visit dnr.mo.gov/env/wpp/permits/ww-construction-permitting.htm.

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 EXTENS	SION CHECKLIST		1	
	REGULATION		YES	NO	N/A
1	8.110(9)(B)	Are detailed plans showing tributary area, boundaries, pertinent elevations, topography, existing and proposed facilities provided?	\Box		
2	8.110(3)(A)	Is the design flow based on actual flow data for an existing system?			
3	8.110(3)(B)	Are average design flows, peak hourly flows, and I&I contributions for new systems calculated.	\square		
4	8.120(2)	Does the sewer exclude water from roofs, streets, groundwater from foundation drains, and combined wastewater?	$\overline{\mathbf{X}}$		
5	8.120(3)(C)	Is ASTM C969-17 leakage test specified to ensure water tight joint seals and appropriate exfiltration and infiltration rates?	\checkmark		
6	8.120(4)(A)	Are manholes located at all changes in grade, size or alignment, and all intersections?	\square		
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?	\blacksquare		
8	8.120(3)(A)2	Is the pipe covered with at least 36" of soil or sufficiently insulated to prevent freezing?	\checkmark		
9	8.120(3)(A)	Is the pipe installation, embedment, and backfill designed to prevent damage to the pipe and its joints?			
10	8.120(3)(B)	Is deflection testing specified to ensure no pipe exceeds a deflection of 5% of the inside diameter?			
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)	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 < 8"?			
13	8.120(4)(E)	Are the manholes specified to be watertight, constructed, installed in accordance with the manufacturer's recommendations and procedures?	\square		
14	8.120(4)(F)	Do the specifications include a requirement for inspection and testing for manholes?	\square		
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	8.120(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?			

		WERS, GRINDER PUMP, STEP AND STEG SEWER CHECKLIST	1/17 0	Luc	1
4	REGULATION		YES	NO	N/A
17	8.125(5)(A)1.	Does the cleaning velocity of ≥ 2 ft/s happen at least once per day?			
18	8.125(5)(A)2.	Is the diameter of the pressure sewer main pipe at least 1.5"?			
19	8.125(5)B	Are appurtenances compatible with the piping system?			
20	8.125(5)(C)	Do service line pipes have a minimum diameter of 1.25 in.?			
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 station.			
22	8.125(5)(D)1. B	Are multiple unit pump stations owned, operated, 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 8.130(3)(B)2	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)?			L
26	8.125(5)(D)8 8.125(6)(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) 8.180(2)	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?			
28	8.125(6)(F)	Are pump vaults designed with duplex pumps for STEP sewer systems with design flow of 1,500 gallons per day or greater?			
29	8.125(7)(A) 8.125(7)(C)	Is the minimum STEG sewerservice line at least 4" in diameter?			
11.0	PUMP STATIO	N CHECKLIST	-		
	REGULATION		YES	NO	N/A
30	8.130(2)(A) 8.140(2)(B)	Is the pump station designed to withstand the 100-year flood?			
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 at least 2 pumps or pneumatic ejectors provided?			
33	8.130(3)(D)	Are valves located outside wet well unless integral to a pump or its housing?			
34	8.130(3)(F) 8.140(8)(J)	Do wet and dry wells have separate ventilation systems?			
35	8.130(3)(G)	Does all potable water brought to the pump station comply with 8.140 (7) D?			
36	8.130(6)	Is an alarm system provided with uninterrupted power?			
37	8.130(7)(A)	Is there 2 hours retention of the peak hourly flow for a design flow > 100,000 gpd or 4 hrs retention of the peak hourly flow for a design flow < 100,000 gpd?			
38	8.130(7)(B)	Is there an independent utility substation provided for emergency power that is capable of starting and operating the pump station at its rated capacity?			
39	8.130(8)(A)	Is the force main velocity of ≥ 2 ft/s maintained?			
40	8.130	Are there complete operation instructions for the pumping stations provided that include emergency procedures, maintenance schedules,			

12.0	SUCTION LIFT	PUMP AND SUBMER	RSIBLE PUMP STATION CHECKLIST			- (
	REGULATION			YES	NO	N/A
1 1	8.130(4)	Are the suction lift p	umps of the self priming or vacuum priming type?			
42	8.130(4)(A)	and required net por	al of dynamic suction lift at the "pump off" elevation sitive suction head at design operating conditions twenty-two feet (22')?			
43	8.130(4)(B)	Are there dual vacul lift pump?	um pumps capable of removing air from the suction			
44	8.130(5)(A)	Are submersible pur personel entering, o	mps readily removable and replaceable without or disconnecting any pipe in the wet well?			
13.0	CERTIFICATIO	N STATEMENT				
	AKE I YING INTO	AN EXISTING SEWER	xplanation. Provide any useful comments on design MAIN WITH NO KNOW OVERFLOW ISSUES.	IOI TEVIEI	w engine	er.
		AN EXISTING SEWER	MAIN WITH NO KNOW OVERFLOW ISSUES.			
Miss	ouri Professiona	Engineer's Seal:			w engine	901.
Miss	souri Professiona	Engineer's Seal:				

		PUMP AND SUBMERSIBLE PUMP STATION	CHECKLIST			
	REGULATION			YES	NO	N/A
41	8.130(4)	Are the suction lift pumps of the self priming of	or vacuum priming type?			
42	8.130(4)(A)	Is the combined total of dynamic suction lift at and required net positive suction head at desi less than or equal to twenty-two feet (22')?	the "pump off" elevation gn operating conditions			
43	8.130(4)(B)	Are there dual vacuum pumps capable of rem lift pump?	oving air from the suction			
44	8.130(5)(A)	Are submersible pumps readily removable an personel entering, or disconnecting any pipe i				
13.0	CERTIFICATIO	STATEMENT				
	that I am a duly	hat this plan, specification, and/or report was pr icensed Professional Engineer under the laws ered "NO" provide explanation. Provide any us	of the state of Missouri. eful comments on design f			
	that I am a duly	icensed Professional Engineer under the laws	of the state of Missouri. eful comments on design f			
WE 4	that I am a duly	icensed Professional Engineer under the laws ered "NO" provide explanation. Provide any us N EXISTING SEWER MAIN WITH NO KNOW OVE	of the state of Missouri. eful comments on design f			
WE / Misso Vame	that I am a duly	Licensed Professional Engineer under the laws ered "NO" provide explanation. Provide any us N EXISTING SEWER MAIN WITH NO KNOW OVE BOBER Seal:	of the state of Missouri. eful comments on design f			