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:	MOGC00650
Title of Project:	The Polo Grounds
Owner:	Polo Grounds Development LLC
Address:	5091 Baumgartner Rd
	St. Louis, MO 63129

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: Jefferson Receiving Permit ID: MO0134147

for the construction of (described construction project):

The Polo Grounds - Construction of approximately 6,273 lf of 8-inch SDR 35 PVC pipe with 38 manholes to serve 101 residential lots with a design average flow of 37,000 gpd. The receiving sewer is 12-inch with a capacity of 1,411 gpm.

Project is in the vicinity of Highway FF and High Trails Dr. and discharges to an existing system to be treated at the Jefferson County Public Sewer District Mirasol WWTF, MO-6031523. Douglas Bjornstad, District Manager, with Jefferson County Public Sewer District provided a continuing authority and receiving wastewater treatment acceptance form dated August 15th, 2023.

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.

November 01, 2023 Issue Date

John Hoke, Director Water Protection Program

October 31, 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. 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 <u>DNR.WPPEngineerSection@dnr.mo.gov</u> in accordance with 10 CSR 20-6.010(5)(G)3.
- 4. The plans and specifications, each signed, sealed, and dated by a professional engineer registered in the State of Missouri in accordance with 10 CSR 20-8 and 10 CSR 20-6.010.
- 5. The Design Certification form, Engineering Report, or Summary of Design, signed, sealed, and dated by a professional engineer registered in the State of Missouri, certifying the design of the system is in accordance with 10 CSR 20-6 and 10 CSR 20-8.
- 6. A statement from the continuing authority, as defined in 10 CSR 20-6.010, accepting the wastewater for treatment and indicating the permitted treatment facility has the available capacity.
- 7. A statement from the continuing authority, as defined in 10 CSR 20-6.010, accepting responsibility for the operation and maintenance of these facilities.

PERMIT CONDITIONS:

- 1. This permit authorizes the activities and scope of work detailed in the plans and specifications submitted with the request.
- 2. The construction must be in accordance with the final plans and specifications received by the Department. Revisions that affect capacity, flow, or system layout must be approved by the Department prior to construction.

PERMIT CONDITIONS: (continued)

- 3. If construction will incorporate minor changes from previously submitted plans and specifications (i.e., changes that do not affect the capacity, flow, or system layout), submit an electronic copy of the as-built plans and specifications in accordance with 10 CSR 20-8.110(11).
- 4. State and Federal Law does not permit bypassing of raw wastewater; therefore, the applicant must take steps to ensure that raw wastewater does not discharge during construction. If a sanitary sewer overflow or bypass occurs, report the appropriate information to the Department's regional office per 10 CSR 20-7.015(9)(E) or through the Online Bypass/SSO Reporting service on the Missouri Gateway for Environmental Management (MoGEM) portal found at https://dnr.mo.gov/data-e-services/missouri-gateway-environmental-management-mogem.

See <u>https://dnr.mo.gov/document-search/missouri-gateway-environmental-management-mogem-frequently-asked-questions-pub2988/pub2988</u> 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 https://dnr.mo.gov/data-e-services/water/electronic-permitting-epermitting.

See <u>https://dnr.mo.gov/water/business-industry-other-entities/permits-</u> <u>certification-engineering-fees/stormwater/construction-land-disturbance</u> 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 <u>https://dnr.mo.gov/water/business-industry-other-entities/permits-certification-engineering-fees/section-401-water-quality</u> 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.

		FOR DEPARTMENT USE ONLY APP NO. CP NO.			
	APP NO.	CP NO.			
SEWER EXTENSION			FEE RECEIVED	CHECK NO.	
	DATE RECEIVED				
NOTE ► PLEASE READ THE ACCOMPAN	IYING INS	TRUCTIONS BEFORE		G THIS FORM	
1.0 APPLICATION INFORMATION (Note –					ation may be
considered incomplete and returned.)					
1.1 Is this a Federal/State funded project?	□ YES	N/A Funding Age	•		ject #:
1.2 Has the Department of Natural Resource	es approve	ed the proposed project's	s engineering	report*?	
1.3 Is a copy of the appropriate plans* and s	specificatio	ons* included with this ap	plication?	🗌 YES 📋 NO	
1.4 Is a summary of design* included with the	nis applica	tion?	C		
1.5 Is the appropriate fee or JetPay confirma See Section 7.0	ation inclue	ded with this application?	? 🗌 YES 🛛	□ NO	
* Must be affixed with a Missouri registered p	orofession	al engineer's seal, signat	ture and date		
2.0 PROJECT INFORMATION 2.1 NAME OF PROJECT					
ADDRESS	CITY		STATE	ZIP CODE	COUNTY
2.2 Legal Description: 1/4,	1⁄4,	1⁄4, Sec. , T	, R		
2.3 Project Components (check all that appl		orce mains	tive sewer sys	stem 🗌 Other (D	escribe below.)
2.4 PROJECT DESCRIPTION			live sewer sy		escribe below.)
2.5 DESIGN INFORMATION					
A. Population or number of lots to be served	-				
B. Estimated flow to be contributed by this e	xtension:	Design Average Flow:	gpd	Design Peak Hourly	/ Flow: gph
C. Industrial Wastes: Type:	Flo	ow: gpd			
D. Receiving Sewer: Size: inches	Cap	pacity: gpm			
3.0 PROJECT OWNER					
NAME		TELEPHONE NUMBER WITH AF	REA CODE	EMAIL ADDRESS	
ADDRESS	CITY		STATE	ZIP CODE	
		via a component husings			nonction the facility
4.0 CONTINUING AUTHORITY: A continuin or ensuring compliance with the permit requi					
contractually hired by the permittee to sampl					
operator or analytical laboratory. To access t visit https://s1.sos.mo.gov/cmsimages/adrule					
it appears on the Missouri Secretary of State			the continuin	a cuthority ic on indi	
https://bsd.sos.mo.gov/BusinessEntity/BESe government, or otherwise not required to reg				y authonity is an indi	
NAME		TELEPHONE NUMBER WITH A	REA CODE	EMAIL ADDRESS	
ADDRESS	CITY		STATE	ZIP CODE	
4.1 A letter from the continuing authority or t if different than the owner, is included with th			ving Wastew	ater Treatment Faci	lity Acceptance form,
MO 780-1632 (10-19)					Page 1 of 2

5.0 ENGINEER							
ENGINEER NAME / COMPANY NAME			PHONE NUMBER WITH	H AREA CODE	EMAIL ADDRESS		
The Sterling Company			-487-0440		vglosecki@sterling-eng-sur.com		
ADDRESS CITY				STATE	ZIP CODE		
5055 New Baumgarnter Road St. Louis		St. Louis	3		63129		
6.0 RECEIVING WASTEWAT	ER TREATMEN	NT FACILITY					
NAME		TELE	PHONE NUMBER WITH	H AREA CODE	EMAIL ADDRESS		
JCPSD, Mirasol WWTF		636	797-9900		dbjornstad@jeffcopsd.org		
MISSOURI STATE OPERATING PERMIT #		REM	AINING CAPACITY (GP	D)			
MO6031523		260	100				
6.1 Has the receiving treatment	nt facility agreed	d to accept the	additional waste	ewater flow?	VES NO		
6.2 A letter from the receiving V YES NO V		atment facility,	if different than t	the continuing	authority, is included with this applicatio		
7.0 Application Fee							
Check Number			JetPay Confirmation Number				
8.0 PROJECT OWNER: I certi supervision in accordance with	a system desig	gned to assure	is document and that qualified pe	d all attachme ersonnel prop	nts were prepared under my direction or erly gather and evaluate the information		
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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 https://apps5.mo.gov/mocwis_public/applicationInprocessSearch.do.

- 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 <u>dnr.mo.gov/gis/</u>.
- 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.
 - Briefly describe the project by providing the following information:
 - A. Total number of manholes.

2.4

- 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.

	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?			
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.			
4	8.120(2)	Does the sewer exclude water from roofs, streets, groundwater from foundation drains, and combined wastewater?			
5	8.120(3)(C)	Is ASTM C969-17 leakage test specified to ensure water tight joint seals and appropriate exfiltration and infiltration rates?			
6	8.120(4)(A)	Are manholes located at all changes in grade, size or alignment, and all intersections?			
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?			
8	8.120(3)(A)2	Is the pipe covered with at least 36" of soil or sufficiently insulated to prevent freezing?			
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?			
14	8.120(4)(F)	Do the specifications include a requirement for inspection and testing for manholes?			
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?			

10.0	PRESSURE SE	WERS, GRINDER PUMP, STEP AND STEG SEWER CHECKLIST			
	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.	Do simplex grinder pump stations service only a single equivalent			
	Α	dwelling unit (EDU)? i.e. 1 residence – 1 grinder pump station.			_
22	8.125(5)(D)1.	Are multiple unit pump stations owned, operated, maintained by an			
23	B 8.125(5)(D)3	approved continuing authority? 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			
	8.130(3)(B)2	electrical hazard and 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			
	8.125(6)(F)6	mechanical or power failure by providing standby power, storage			
27	8.125(6)(D)	capacity or interconnection with another disposal system? Does each EDU have at least one septic tank with a minimum of 1,000			
21	8.180(2)	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 STATION	CHECKLIST	1	1	1
	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, special tools and spare parts that may be necessary?			

12.0 SUCTION LIFT PUMP AND SUBMERSIBLE PUMP STATION CHECKLIST									
	REGULATION				YES	NO	N/A		
41	8.130(4)	Are the suction lift pumps	of the self priming o	r vacuum priming type?					
42	8.130(4)(A)	Is the combined total of d and required net positive less than or equal to twen	suction head at designty-two feet (22')?	gn operating conditions					
43	8.130(4)(B)	Are there dual vacuum pu lift pump?		0					
44	8.130(5)(A)	Are submersible pumps re personel entering, or disc							
13.0	CERTIFICATIO	N STATEMENT							
	including the pos I hereby certify t that I am a duly	ssibility of fine and imprisor hat this plan, specification, Licensed Professional Eng	nment. and/or report was pr ineer under the laws	epared by me or under my of the state of Missouri. eful comments on design fo	direct su	pervisio	n and		
Missouri Professional Engineer's Seal:									
Nam Stree City:	et Address:	Sta	ate:	ZIP Code:					
Phor	ne Number:		Email:						