STATE OF MISSOURI DEPARTMENT OF NATURAL RESOURCES

MISSOURI CLEAN WATER COMMISSION



GENERAL PERMIT for SEWER EXTENSION CONSTRUCTION

The Missouri Department of Na	tural Resources hereby issues a	permit to:
Construction Permit ID:	MOGC00796	

Title of Project: Coastal Carriers

Owner: Coastal Carriers Truck Lines, LLC

Address: 120 Hammer Lane Troy, MO 63379

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: Warren Receiving Permit ID: MO0133264

for the construction of (described construction project):

Construction of 924 linear ft of 8in sdr 26 PVC gravity sanitary main 4 sanitary manholes, and grinder station.1388 ft of 1.5in SDR 21 PVC force main and appurtenances to extend sanitary service to the existing sanitary collection system. Receiving sewer is 8in with flow capacity of 580gpm.

Project is in the vicinity Cotton and West Meyer Rd in the city of Foristell, Warren County, Missouri and will discharge to an existing system to be treated at the SCCPWSD#2 Providence States WWTP. A signed continuing authority and receiving wastewater letter from the Public Water Supply District #2 was received dated October 28, 2024. This project utilizes the Sanitary Sewer Collection System Construction Specifications from Public Water Supply District Nr. 2 of Saint Charles County, Missouri.

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.

October 31, 2024	In Joke	
Issue Date	John Hoke, Director	
	Water Protection Program	
October 30, 2026	<u></u>	
Expiration Date		

APPLICABILITY

- 1. This permit authorizes the construction of gravity sewer extensions, force mains, and lift stations. Non-earthen flow equalization storage basins at lift stations and inline storage, which flows back into the lift station or collection system, are also included.
- 2. The Missouri Department of Natural Resources may require a site-specific sewer extension construction permit due to compliance and enforcement actions in accordance with 10 CSR 20-6.010(13)(C).
- 3. This permit does not apply to:
 - A. Earthen storage basins;
 - B. Exempt projects in accordance with 10 CSR 20-6.010(1)(B), 10 CSR 20-6.010(5)(B), and RSMo 644.051 unless requested by the applicant or required by enforcement.

PREREQUISITES:

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

PERMIT CONDITIONS:

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

PERMIT CONDITIONS: (continued)

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

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

- 5. Protection of drinking water supplies must meet the requirements of 10 CSR 20-8.120(5).
 - A. There shall be no physical connections between a public or private potable water supply system and a sewer or appurtenance that would permit the passage of any wastewater or polluted water into the potable supply.
 - B. Lay sewers at least 50 feet (50') in a horizontal direction from any existing or proposed public water supply well or other water supply sources or structures.
- 6. Position manholes so that the top access is at or above grade level.
- 7. In addition to the requirements for a construction permit, see 10 CSR 20-6.200 for land disturbance requirements to obtain a Missouri State Operating Permit to discharge stormwater. The permit requires Best Management Practices sufficient to control runoff and sedimentation to protect waters of the state. Applicants shall obtain land disturbance permits through the Department's ePermitting system, available online at <a href="https://dnr.mo.gov/data-e-services/water/electronic-permitting-ep

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

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

PERMIT CONDITIONS: (continued)

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

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

- 10. If this project eliminates a wastewater treatment facility under the jurisdiction of the Department, then the applicant shall submit a full closure plan with a Facility Closure Request Form, Form MO 780-2512, to the Department's appropriate regional office for review and approval. In accordance with 10 CSR 20-6.010(12), the closure plan must meet the requirements outlined in Standard Conditions Part III of the Missouri State Operating Permit. Closure shall not commence until the Department approves the submitted closure plan.
- 11. If this project is part of a project to resolve an enforcement action or is receiving funding from the Department, submit a <u>statement of work complete</u> following the completion of construction.
- 12. Applicants may submit, prior to the expiration date of this permit, a written request that additional time is needed in accordance with 10 CSR 20-6.010(5)(H)3.

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MISSOURI DEPARTMENT OF NATURAL RESOURCES WATER PROTECTION PROGRAM

APPLICATION FOR CONSTRUCTION PERMIT – SEWER EXTENSION

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

NOTE ► PLEASE READ THE ACCOMPAN	VINC INC	TRICTIONS DEFORE	COMPLET	NG THIS EODM				
1.0 APPLICATION INFORMATION (Note -	the Art Applied No. 1 Column Challen.	The state of the s		And the second s	cation may be			
considered incomplete and returned.)								
1.1 Is this a Federal/State funded project?	YES	✓ N/A Funding Ag	ency:	Pi	roject #:			
1.2 Has the Department of Natural Resources approved the proposed project's engineering report*? ☐ YES Date of Approval: ☐ NO ☑ N/A								
1.3 Is a copy of the appropriate plans* and specifications* included with this application?								
1.4 Is a summary of design* included with this application? YES NO								
1.5 Is the appropriate fee or JetPay confirmation included with this application? ☑ YES ☐ NO See Section 7.0								
* Must be affixed with a Missouri registered p	rofession	al engineer's seal, signa	ture and da	te.				
2.0 PROJECT INFORMATION 2.1 NAME OF PROJECT				A A DATE	AMERICA, SERVICE			
Coastal Carriers								
ADDRESS	CITY		STATE	ZIP CODE	COUNTY			
28700 Cotton Road	Foristell		МО	63348	Warren			
2.2 Legal Description: ¼.	% SW	¼, Sec. ₁₃ , T	47N - R	1W				
2.3 Project Components (check all that apply): Gravity sewers Pumping stations Force mains Alternative sewer system Other (Describe below.) 2.4 PROJECT DESCRIPTION Construction of 924 ft. of SDR 26 PVC gravity sanitary main, 4 sanitary manholes, a private grinder station, 1,388 ft. of 1.25" SDR 21 PVC public/private forcemain and appurtenances to extend sanitary service to the existing sanitary collection system. 2.5 DESIGN INFORMATION A. Population or number of lots to be served by this extension: N/A								
B. Estimated flow to be contributed by this e C. Industrial Wastes: Type: N/A	Flo		1,500 gpd	Design Peak Hou	ly Flow: gph			
D. Receiving Sewer: Size: inches		pacity: gpm						
3.0 PROJECT OWNER	30 0		Control of the Contro		Modelli Sara II was in separa a sara			
NAME		TELEPHONE NUMBER WITH A	REA CODE	EMAIL ADDRESS	g Marsin Charles and			
Coastal Carriers		636-528-8988		deanm@coastald	carriers.com			
ADDRESS	CITY		STATE	ZIP CODE				
120 Hammer Lane	Troy		МО	63379				
or ensuring compliance with the permit required contractually hired by the permittee to sample operator or analytical laboratory. To access the visit https://s1.sos.mo.gov/cmsimages/adruleit appears on the Missouri Secretary of State https://bsd.sos.mo.gov/BusinessEntity/BESegovernment, or otherwise not required to register. NAME PWSD No. 2 of St. Charles County	rements. e or opera he regulat es/csr/cun 's (SoS's) arch.aspx ister with	A continuing authority is ite and maintain the systory requirement regard rent/10csr/10c20-6.pdf. webpage: ?SearchType=0, unless	e not, however tem for a de ing continuing A continuing the continuing TREA CODE	er, an entity or individined time period, sugaithority, 10 CSR authority's name ming authority is an in EMAIL ADDRESS ckrakosky@wate	dual that is, ch as a certified 20-6.010(2), please ust be listed exactly as dividual(s),			
100 Water Drive	O'Fallon		МО	63368				
4.1 A letter from the continuing authority or the different than the owner, is included with the owner.	he Contin is applica	uing Authority and Receition. ZYES NC	eiving Waste	water Treatment Fa	Page 1 or 2			

	ENGINEER NAME / COMPANY NAME		H AREA CODE	EMAIL ADDRESS		
Cochran		636-332-4574		ekirchner@cochraneng.com		
ADDRESS CITY			STATE	ZIP CODE		
8 East Main St. Wentzy		ville	МО	63385		
6.0 RECEIVING WASTEWA	TER TREATMENT FAC	ILITY		The second secon		
NAME	TELEPHONE NUMBER WIT	H AREA CODE	EMAIL ADDRESS			
Providence Estates Wastewa	ater Treatment Facility	636-561-3737		ckrakosky@waterdistrict2.com		
MISSOURI STATE OPERATING PERMIT	tt .	REMAINING CAPACITY (GI	PD)			
MO-0133264		220,000				
6.1 Has the receiving treatm	ent facility agreed to acc	ept the additional wast	ewater flow?	☑ YES □ NO		
	g wastewater treatment N/A	facility, if different than	the continuing	authority, is included with this application		
7.0 Application Fee						
☑Check Number			letPay Confirm	nation Number		
submitted. Based on my inquathering the information, the	ulry of the person of pers e information submitted i	ons who manage the s s, to the best of my kno	ystem, or thos owledge and b	erly gather and evaluate the information e persons directly responsible for eller, true, accurate, and complete. I am esibility of fine and imprisonment for		
knowing violations.			公司的	The market of the second second second		
knowing violations.				DATE 9/12/24		
PROJECT OWNER SIGNATURE PRINTED NAME		TELEPHONE NUMBER WIT				
PROJECT OWNER SIGNATURE PRINTED LAME John Dunard		1ELEPHONE NUMBER WIT 636-528-8988		DATE 9/12/24		
PROJECT OWNER SIGNATURE PRINTED NAME John Dunard TITLE OR COPORATE POSITION		636-528-8988 RTMENT OF NATURAL TION PROGRAM	H AREA CODE	DATE 9/2/27 EMAIL ADDRESS john@coastalcarriers.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 dnr.mo.gov/env/wpp/epermit/help.htm. 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, Engineering Report Guidance for Collection Systems, Fact Sheet--PUB2415.
- 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, Summary of Design Guidance, 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.
- 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 <a href="https://www.wppfees.com/wppfe
 - 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: https://magic.collectorsolutions.com/magic-ui/payments/mo-natural-resources/592/8.0
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.

1047.17	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?	V		
3	8.110(3)(B)	Are average design flows, peak hourly flows, and I&I contributions for new systems calculated.	V		
4	8.120(2)	Does the sewer exclude water from roofs, streets, groundwater from foundation drains, and combined wastewater?	V		
5	8.120(3)(C)	Is ASTM C969-17 leakage test specified to ensure water tight joint seals and appropriate exfiltration and infiltration rates?	V		
6	8.120(4)(A)	Are manholes located at all changes in grade, size or alignment, and all intersections?	V		
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?	V		
8	8.120(3)(A)2	Is the pipe covered with at least 36" of soil or sufficiently insulated to prevent freezing?	V		
9	8.120(3)(A)	Is the pipe installation, embedment, and backfill designed to prevent damage to the pipe and its joints?	V		
10	8.120(3)(B)	Is deflection testing specified to ensure no pipe exceeds a deflection of 5% of the inside diameter?	V		
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"?	V		
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"?			V
13	8.120(4)(E)	Are the manholes specified to be watertight, constructed, installed in accordance with the manufacturer's recommendations and procedures?	V		
14	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?	V		
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?	V		

10.0	0.0 PRESSURE SEWERS, 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?	V							
18	8.125(5)(A)2.	Is the diameter of the pressure sewer main pipe at least 1.5"?		V						
19	8.125(5)B	Are appurtenances compatible with the piping system?	V							
20	8.125(5)(C)	Do service line pipes have a minimum diameter of 1.25 in.?			V					
21	8.125(5)(D)1. A	Do simplex grinder pump stations service only a single equivalent dwelling unit (EDU)? i.e. 1 residence – 1 grinder pump station.			V					
22	8.125(5)(D)1. B	Are multiple unit pump stations owned, operated, maintained by an approved continuing authority?		V						
23	8.125(5)(D)3	Is there at least 70 gallons of storage in the grinder pump unit?	V							
24	8.125(5)(D)4	Do grinder pump stations have shutoff valves, check valves, and anti- siphon valves (where siphoning could occur) that are accessible from the ground surface?	V							
25	8.125(5)(D)7 8.130(3)(B)2	Are units serviceable and replaceable under wet conditions without electrical hazard and electrical equipment suitable for hazardous locations (National Electrical Code, Class I, Group D. Division 1 location)?	7							
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?			V					
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?			V					
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			医脂肪 吳					
	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?			V					
32	8.130(3)(B)	If the design flow is 1,500 gpd or more, are at least 2 pumps or pneumatic ejectors provided?			V					
33	8.130(3)(D)	Are valves located outside wet well unless integral to a pump or its housing?			V					
34	8.130(3)(F) 8.140(8)(J)	Do wet and dry wells have separate ventilation systems?			$\overline{\mathbf{A}}$					
35	8.130(3)(G)	Does all potable water brought to the pump station comply with 8.140 (7) D?			V					
36	8.130(6)	Is an alarm system provided with uninterrupted power?			$\overline{\mathbf{V}}$					
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?			V					
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?			V					
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?			V					

				v z tra v roza v roza v roza v					
12.0 SUCTION LIFT PUMP AND SUBMERSIBLE PUMP STATION CHECKLIST									
	REGULATION					YES	NO	N/A	
41	8.130(4)	Are the suction lift pumps	ning type?			1			
42	8.130(4)(A)	and required net positive suction head at design operating conditions less than or equal to twenty-two feet (22')?							
43	8.130(4)(B)	Are there dual vacuum p lift pump?			V				
44	8.130(5)(A)	Are submersible pumps personel entering, or disc			V				
13.0	CERTIFICATION	N STATEMENT							
	I hereby certify that the design plans and specifications for this project, to the best of my knowledge, conform to the requirements listed above. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. I hereby certify that this plan, specification, and/or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the state of Missouri.								
The right	For any question answered "NO" provide explanation. Provide any useful comments on design for review engineer: The grinder station for this project will be privately owned and maintained. A portion of the forcemain is public as it crosses onto the right of way for Cotton Road. The public portion of the forcemain off the project site will be owned and maintained by PWSD #St. Charles County.								
			THE OF MISS	Page,					
Missouri Professional Engineer's Seal: ERIC SCOTT KIRCHNER E-2001004618									
Stree City:	e: Eric Kirchner for et Address: 8 East Wentzville	Main St. St	tate: MO	ZIP Code:	63385				
Phor	ne Number: 636-33	32-4574	Email: ekirchner@d	ochraneng.com	l				