

STATE OF MISSOURI
DEPARTMENT OF NATURAL RESOURCES
MISSOURI CLEAN WATER COMMISSION



CONSTRUCTION PERMIT

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

City of Jefferson
Jefferson City Regional Water Reclamation Facility
320 East McCarty Street
Jefferson City, MO 65101

for the construction of (described facilities):

See attached.

Permit Conditions:

See attached.

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.

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.

A representative of the department may inspect the work covered by this permit during construction. Issuance of a permit to operate by the department will be contingent on the work substantially adhering to the approved plans and specifications.

This permit applies only to the construction of water pollution control components; it does not apply to other environmentally regulated areas.

March 6, 2026

Effective Date

March 5, 2028

Expiration Date

A handwritten signature in black ink, appearing to read "Heather S. Peters".

Heather S. Peters, Director, Water Protection Program

CONSTRUCTION PERMIT

I. CONSTRUCTION DESCRIPTION

The project consists of the replacement of the existing pump station south of the intersection of South Brooks Drive and Truman Drive, additional wet weather storage at the existing pump station site, replacement of existing force main with new 12-inch force main along Bagnall Drive, replacement of gravity sewer running north of Country Club Road, and all necessary appurtenances to complete the project.

The proposed work includes construction and installation of approximately 8,150 linear feet of 12-inch diameter polyvinyl chloride (PVC) Standard Dimension Ratio (SDR)-21 force main with cleanouts and air release valves, approximately 1,160 linear feet of 12-inch diameter PVC SDR-21 gravity sewer, a duplex lift station with each pump capable of operating at 900 gallons per minute (gpm) at 243 feet of total dynamic head (TDH), one portable generator, and all necessary appurtenances to make a complete and usable wastewater collection system to serve an estimated 300 properties and an estimated design average flow of 21,000 gallons per day. The project will also include general site work appropriate to the scope and purpose of the project.

These activities will be located south of Highway 50 and primarily west of Highway 179 in Jefferson City, Cole County, discharging to the existing sewer system to be treated at the Jefferson City Regional Water Reclamation Facility, Missouri State Operating Permit No. MO-0094846.

II. CONSTRUCTION PERMIT CONDITIONS

The permittee is authorized to construct, subject to the following conditions:

1. This construction permit does not authorize discharge.
2. All construction shall be in accordance with the plans and specifications submitted by Donohue & Associates, Inc. on October 14, 2025; signed and sealed October 9, 2025, for the force main and October 10, 2025, for the pump station, by the engineers listed below; and approved by the department on March 6, 2026.

Pump Station:

- A. Jeffrey A. Gratzer, P.E.
- B. Christopher Michael Safford, P.E.
- C. Jeremy E. Farrer, P.E.
- D. Craig Lynn Schuenemann, P.E.

Forcemain:

- A. Christopher Michael Safford, P.E.
- B. Jeffrey A. Gratzer, P.E.

3. Regulation 10 CSR 20-4.040(18)(B)1 requires that projects be publicly advertised, allowing sufficient time for bids to be prepared and submitted. Projects should be advertised at least 30 days prior to bid opening.
4. The department must be contacted in writing prior to making any changes to the approved plans and specifications that would directly or indirectly have an impact on the capacity, flow, system layout, or reliability of the proposed project or any design parameter that is addressed by 10 CSR 20-8, in accordance with 10 CSR 20-8.110(11).
5. As per 10 CSR 20-4.040, all changes in contract price or time within the approved scope of work must be by change order in accordance with Section 19 of this rule.
6. Manholes shall be located with the top access at or above grade level.
7. 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 electronic Sanitary Sewer Overflow/Bypass Reporting system at <https://dnr.mo.gov/mogem/> or Central Field Office per 10 CSR 20-7.015(9)(G).
8. Protection of drinking water supplies shall be in accordance with 10 CSR 20-8.120(5), which includes by reference the provisions of 10 CSR 23-3.010. Separation distance requirements between water mains and sanitary sewers in 10 CSR 60-10.010 are also applicable.
9. In addition to the requirements for a construction permit, 10 CSR 20-6.200 requires land disturbance activities of 1 acre or more 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 <https://dnr.mo.gov/data-e-services/missouri-gateway-environmental-management-mogem>. See <https://dnr.mo.gov/data-e-services/water/electronic-permitting-epermitting> for more information.
10. A United States Army Corps of Engineers (USACE) Section 404 Department of Army permit (§404) along with the department's Section 401 Water Quality Certification or waiver (§401) 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 likely be required. Since the USACE makes determinations on what is jurisdictional, you must contact the USACE to determine permitting requirements. See <https://dnr.mo.gov/water/business-industry-other-entities/permits-certification-engineering-fees/section-401-water-quality> for more information or you may contact the department's Water Protection Program at 573-522-4502 or wpsec401cert@dnr.mo.gov.

11. Upon completion of construction:

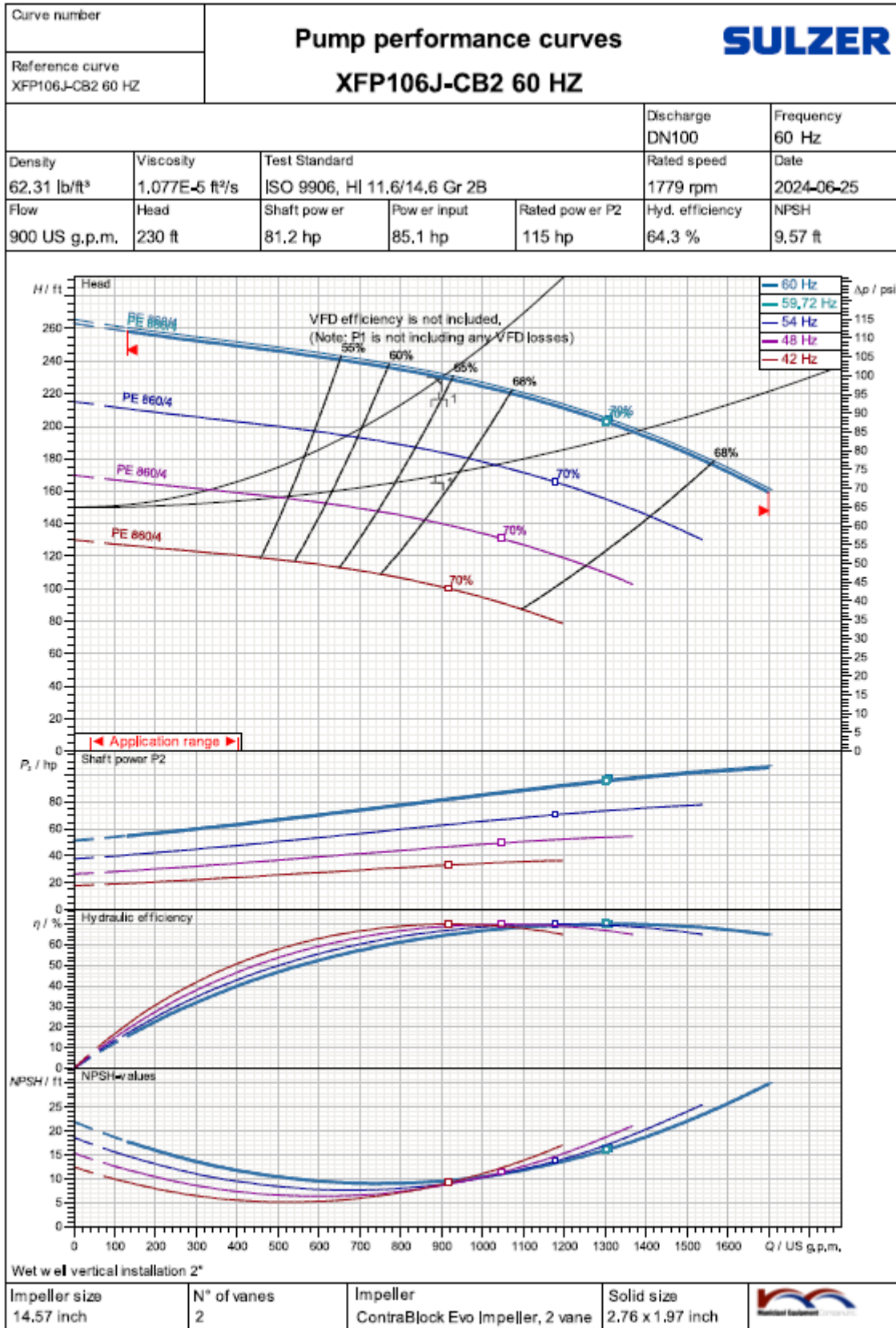
- A. The City of Jefferson will become the continuing authority for operation and maintenance of these facilities;
- B. Submit an electronic copy of the as-builts if the project was not constructed in accordance with previously submitted plans and specifications; and
- C. Submit the enclosed form Statement of Work Completed to the department in accordance with 10 CSR 20-6.010(5)(N).

Angie Garcia, P.E.
Financial Assistance Center
angie.garcia@dnr.mo.gov

APPENDIX

- Summary of Design

APPENDIX – SUMMARY OF DESIGN



Sulzer reserves the right to change any data and dimensions without prior notice and can not be held responsible for the use of information contained in this software. Spax® 6-24,2 - 2024/06/12 (Build 569), 64 bit Data version June 24,2

Full-Pipe Hydraulics Worksheet

[Hydraulic Info.pdf](#)

Project Information

Project: **Westview Pump Station**
 Project Number: **14332**
 System Description: **2 - 600 gpm pumps running. Pumping from the EG Basin to the Discharge location via the new 12" FM. Using inside diameter of 12.62" for class 360 cement lined DIP for the FM.**

System-Head Curve Flow Rates

Units	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
(mgd)	0.000	0.360	0.720	1.096	1.440	1.800	2.592	2.880	3.600	4.320
(gpm)	0	260	600	900	1,000	1,260	1,800	2,000	2,600	3,000
(cfs)	0.000	0.557	1.114	2.005	2.228	2.785	4.010	4.458	5.570	6.684

Hazen-Williams Coefficients

Cmin: **120.00** Cmax: **140.00**

Water Temperature

Degrees F: **60**
 Spreadsheet Valid? **Yes**

Static Head

Discharge		Suction		H1	H2	H3	H4
Min.	Max.	Min.	Max.	(ft)	(ft)	(ft)	(ft)
816.90	816.00	666.90	663.60	150.40	133.60	133.60	133.50

Pump Elevation

Center Line: **842.00**

Atm Pressure

Head: **32.80**

Vapor Pressure

Head: **6.80**

Design Flows

	Min	Max
Flow	600	1,800
Head	0	0
Flow	900	1,800
Head	153	227

Total Headloss Cmin: **120.00** Hazen-Williams Coefficient 1

	Maximum Static Lift										Minimum Static Lift									
Minor Headloss (ft-water)	0.00	0.05	0.20	0.64	0.79	1.23	2.55	3.14	4.91	7.07	0.00	0.05	0.20	0.64	0.79	1.23	2.55	3.14	4.91	7.07
Pipe Headloss (ft-water)	0	1.91	6.90	20.47	24.67	37.58	73.78	89.66	136.48	189.83	0.00	1.91	6.90	20.47	24.67	37.58	73.78	89.66	136.48	189.83
Static Head (ft-water)	150.40	150.40	150.40	150.40	150.40	150.40	150.40	150.40	150.40	150.40	133.50	133.50	133.50	133.50	133.50	133.50	133.50	133.50	133.50	133.50
TotH (ft-water)	150.40	152.36	157.60	171.60	176.09	189.21	226.73	243.20	296.79	347.30	133.50	135.46	140.60	154.60	159.16	172.31	209.83	226.30	279.89	330.40
Q (mgd)	0.000	0.360	0.720	1.096	1.440	1.800	2.592	2.880	3.600	4.320	0.000	0.360	0.720	1.096	1.440	1.800	2.592	2.880	3.600	4.320
Q (gpm)	0	260	600	900	1,000	1,260	1,800	2,000	2,600	3,000	0	260	600	900	1,000	1,260	1,800	2,000	2,600	3,000
Q (cfs)	0.000	0.557	1.114	2.005	2.228	2.785	4.010	4.458	5.570	6.684	0.000	0.557	1.114	2.005	2.228	2.785	4.010	4.458	5.570	6.684

Net Positive Suction Head Cmin: **120.00** Hazen-Williams Coefficient 1

	24	47	84	73	127	152	231	334
Atmosphere (ft-water)	32.80	32.80	32.80	32.80	32.80	32.80	32.80	32.80
Suction Head (ft-water)	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
Minor Losses (ft-water)	0.00	0.00	0.00	0.01	0.02	0.05	0.06	0.10
Piping Losses (ft-water)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vapor Pressure (ft-water)	6.80	6.80	6.80	6.80	6.80	6.80	6.80	6.80
NPSHA (ft-water)	35.8	35.8	35.8	35.8	35.8	35.7	35.7	35.7

Total Headloss Cmax: **140.00** Hazen-Williams Coefficient 2

	Maximum Static Lift										Minimum Static Lift									
Minor Headloss (ft-water)	0.00	0.05	0.20	0.64	0.79	1.23	2.55	3.14	4.91	7.07	0.00	0.05	0.20	0.64	0.79	1.23	2.55	3.14	4.91	7.07
Pipe Headloss (ft-water)	0.00	1.44	5.19	15.39	18.70	28.26	56.47	67.41	101.87	142.73	0.00	1.44	5.19	15.39	18.70	28.26	56.47	67.41	101.87	142.73
Static Head (ft-water)	150.40	150.40	150.40	150.40	150.40	150.40	150.40	150.40	150.40	150.40	133.50	133.50	133.50	133.50	133.50	133.50	133.50	133.50	133.50	133.50
TotH (ft-water)	150.40	151.89	155.79	166.42	169.89	179.88	208.42	220.96	257.18	300.20	133.50	134.99	138.89	149.82	152.99	162.98	191.82	204.06	240.28	283.90
Q (mgd)	0.000	0.360	0.720	1.096	1.440	1.800	2.592	2.880	3.600	4.320	0.000	0.360	0.720	1.096	1.440	1.800	2.592	2.880	3.600	4.320
Q (gpm)	0	260	600	900	1,000	1,260	1,800	2,000	2,600	3,000	0	260	600	900	1,000	1,260	1,800	2,000	2,600	3,000
Q (cfs)	0.000	0.557	1.114	2.005	2.228	2.785	4.010	4.458	5.570	6.684	0.000	0.557	1.114	2.005	2.228	2.785	4.010	4.458	5.570	6.684

Net Positive Suction Head Cmax: **140.00** Hazen-Williams Coefficient 2

	24	47	84	73	127	152	231	334
Atmosphere (ft-water)	32.80	32.80	32.80	32.80	32.80	32.80	32.80	32.80
Suction Head (ft-water)	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
Minor Losses (ft-water)	0.00	0.00	0.00	0.01	0.02	0.05	0.06	0.10
Piping Losses (ft-water)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vapor Pressure (ft-water)	6.80	6.80	6.80	6.80	6.80	6.80	6.80	6.80
NPSHA (ft-water)	35.8	35.8	35.8	35.8	35.8	35.7	35.7	35.7

Minor Losses - Suction

D (in) Fitting	K	%Q	Flow Through Fitting (gpm)										Velocity (fps)										Headloss (ft-water)									
			Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	V1	V2	V3	V4	V5	V6	V7	V8	V9	V10	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10
12 inel	0.60	60	0	125	250	450	500	625	900	1000	1250	1500	0.00	0.36	0.71	1.28	1.42	1.77	2.65	2.84	3.65	4.26	0.00	0.00	0.00	0.01	0.02	0.02	0.05	0.06	0.10	0.14

Piping Losses - Suction

Cmin: 120.00 Hazen-Williams Coefficient 1		Cmax: 140.00 Hazen-Williams Coefficient 2		Flow Through Segment (gpm)										Velocity (fps)										Headloss (ft-water)																
Seq	D	Length	%Q	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	V1	V2	V3	V4	V5	V6	V7	V8	V9	V10	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10							
No.	Description	(in.)	(ft)																				120	140	120	140	120	140	120	140	120	140	120	140	120	140	120	140	120	140

Minor Losses - Discharge

D (in) Fitting	K	%Q	Flow Through Fitting (gpm)										Velocity (fps)										Headloss (ft-water)									
			Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	V1	V2	V3	V4	V5	V6	V7	V8	V9	V10	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10
8 90 deg	0.30	60	0	125	250	450	500	625	900	1000	1250	1500	0.00	1.42	2.84	5.11	5.68	7.10	10.22	11.35	14.19	17.03	0.00	0.01	0.04	0.12	0.15	0.23	0.49	0.60	0.84	1.36
8 10" Reducer	0.66	60	0	125	250	450	500	625	900	1000	1250	1500	0.00	1.42	2.84	5.11	5.68	7.10	10.22	11.35	14.19	17.03	0.00	0.00	0.01	0.02	0.04	0.09	0.10	0.16	0.23	
10 90 deg	0.30	60	0	125	250	450	500	625	900	1000	1250	1500	0.00	0.51	1.02	1.84	2.04	2.55	3.68	4.09	5.11	6.13	0.00	0.00	0.00	0.02	0.02	0.03	0.06	0.12	0.18	
10 Check Valve	1.00	60	0	125	250	450	500	625	900	1000	1250	1500	0.00	0.51	1.02	1.84	2.04	2.55	3.68	4.09	5.11	6.13	0.00	0.00	0.02	0.05	0.06	0.10	0.21	0.26	0.41	0.58
10 Plug Valve	2.00	60	0	125	250	450	500	625	900	1000	1250	1500	0.00	0.51	1.02	1.84	2.04	2.55	3.68	4.09	5.11	6.13	0.00	0.01	0.03	0.11	0.13	0.20	0.42	0.52	0.81	1.17

Full-Pipe Hydraulics Worksheet

[Hydraulic Info.pdf](#)

Project Information

Project: **Westview Pump Station**
 Project Number: **14532**
 System Description:
 2 - 900 gpm pumps running. Pumping from the EIO Basin to the Discharge location via the new 12" PM. Using inside diameter of 12.62" for class 50 cement lined DIP for the PM.

System-Head Curve Flow Rates

Flow	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
Flow (gpm)	0	250	500	800	1,000	1,250	1,500	2,000	2,500	3,000
Head (ft)	0.000	0.360	0.720	1.296	1.440	1.800	2.592	2.880	3.600	4.320
Flow (cfs)	0.000	0.557	1.114	2.005	2.228	2.785	4.010	4.486	5.570	6.684

Hazen-Williams Coefficients

Cmin	120.00
Cmax	140.00

Water Temperature

Design P: **60**
 Spreadsheet Valid?: **Yes**

Static Head

Discharge		Suction		Delta			
Min.	Max.	Min.	Max.	H#1	H#2	H#3	H#4
818.00	818.00	695.00	692.50	150.40	123.60	160.40	133.50

Pump Elevation

Center Line	892.50
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Atm Pressure

H#	32.50
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Vapor Pressure

H#	0.90
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Design Flows

Flow	Min		Max	
	Flow	Head	Flow	Head
900	0	1,800	0	
900	153	1,800	227	

Define static envelope

Line	Size	Material	Length	Flow	Head	Loss	Static	Total																										
10	10"x12" Inconel	0.66	60	0	125	250	450	500	625	900	1000	1250	1500	0.00	0.51	1.02	1.84	2.04	2.55	3.68	4.09	5.11	6.13	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.02	0.03		
12.62	90deg	0.80	60	0	125	250	450	500	625	900	1000	1250	1500	0.00	0.33	0.65	1.17	1.30	1.63	2.35	2.61	3.26	3.91	4.57	0.00	0.00	0.00	0.01	0.01	0.01	0.03	0.03	0.05	0.07
12.62	Tree Line Flow	0.10	1000	0	250	500	900	1000	1250	1800	2000	2500	3000	0.00	0.65	1.30	2.35	2.61	3.26	4.69	5.21	6.52	7.82	9.12	0.00	0.00	0.02	0.05	0.06	0.10	0.21	0.25	0.40	0.57
12.62	Tree branch	0.60	1000	0	250	500	900	1000	1250	1800	2000	2500	3000	0.00	0.65	1.30	2.35	2.61	3.26	4.69	5.21	6.52	7.82	9.12	0.00	0.00	0.02	0.05	0.06	0.10	0.21	0.25	0.40	0.57
12.62	45 deg	0.20	1000	0	250	500	900	1000	1250	1800	2000	2500	3000	0.00	0.65	1.30	2.35	2.61	3.26	4.69	5.21	6.52	7.82	9.12	0.00	0.00	0.01	0.02	0.02	0.03	0.07	0.08	0.13	0.19
12.62	45 deg	0.20	1000	0	250	500	900	1000	1250	1800	2000	2500	3000	0.00	0.65	1.30	2.35	2.61	3.26	4.69	5.21	6.52	7.82	9.12	0.00	0.00	0.01	0.02	0.02	0.03	0.07	0.08	0.13	0.19
12.62	Gate Valve	0.06	1000	0	250	500	900	1000	1250	1800	2000	2500	3000	0.00	0.65	1.30	2.35	2.61	3.26	4.69	5.21	6.52	7.82	9.12	0.00	0.00	0.00	0.01	0.01	0.02	0.02	0.03	0.05	0.06
12.62	Tree Line Flow	0.10	1000	0	250	500	900	1000	1250	1800	2000	2500	3000	0.00	0.65	1.30	2.35	2.61	3.26	4.69	5.21	6.52	7.82	9.12	0.00	0.00	0.01	0.01	0.02	0.03	0.04	0.07	0.10	
12.62	Gate Valve	0.06	1000	0	250	500	900	1000	1250	1800	2000	2500	3000	0.00	0.65	1.30	2.35	2.61	3.26	4.69	5.21	6.52	7.82	9.12	0.00	0.00	0.00	0.01	0.01	0.02	0.02	0.03	0.05	
12.62	90 deg	0.30	1000	0	250	500	900	1000	1250	1800	2000	2500	3000	0.00	0.65	1.30	2.35	2.61	3.26	4.69	5.21	6.52	7.82	9.12	0.00	0.00	0.01	0.03	0.03	0.05	0.10	0.13	0.20	0.28
12.62	90 deg	0.30	1000	0	250	500	900	1000	1250	1800	2000	2500	3000	0.00	0.65	1.30	2.35	2.61	3.26	4.69	5.21	6.52	7.82	9.12	0.00	0.00	0.01	0.03	0.03	0.05	0.10	0.13	0.20	0.28
12.62	22.5 deg	0.16	1000	0	250	500	900	1000	1250	1800	2000	2500	3000	0.00	0.65	1.30	2.35	2.61	3.26	4.69	5.21	6.52	7.82	9.12	0.00	0.00	0.01	0.02	0.02	0.05	0.06	0.10	0.14	
12.62	22.5 deg	0.16	1000	0	250	500	900	1000	1250	1800	2000	2500	3000	0.00	0.65	1.30	2.35	2.61	3.26	4.69	5.21	6.52	7.82	9.12	0.00	0.00	0.01	0.02	0.02	0.05	0.06	0.10	0.14	
12.62	22.5 deg	0.16	1000	0	250	500	900	1000	1250	1800	2000	2500	3000	0.00	0.65	1.30	2.35	2.61	3.26	4.69	5.21	6.52	7.82	9.12	0.00	0.00	0.01	0.02	0.02	0.05	0.06	0.10	0.14	
12.62	22.5 deg	0.16	1000	0	250	500	900	1000	1250	1800	2000	2500	3000	0.00	0.65	1.30	2.35	2.61	3.26	4.69	5.21	6.52	7.82	9.12	0.00	0.00	0.01	0.02	0.02	0.05	0.06	0.10	0.14	
12.62	Exit	1.00	1000	0	250	500	900	1000	1250	1800	2000	2500	3000	0.00	0.65	1.30	2.35	2.61	3.26	4.69	5.21	6.52	7.82	9.12	0.00	0.01	0.03	0.09	0.11	0.17	0.34	0.42	0.66	0.95

Total Headloss (ft-water)

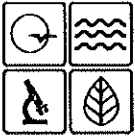
0.00	0.05	0.19	0.62	0.77	1.20	2.50	3.08	4.82	6.93
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Piping Losses-Discharge

Seg. No.	Description	D (in.)	Length (ft)	%Q	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Velocity (fps)										Headloss (ft-water)																			
															V1	V2	V3	V4	V5	V6	V7	V8	V9	V10	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10										
1	Well well vertical	10.0	26.0	60	0	125	250	450	500	625	900	1000	1250	1500	0.00	0.51	1.02	1.84	2.04	2.55	3.68	4.09	5.11	6.13	0.000	0.000	0.004	0.003	0.014	0.010	0.041	0.031	0.050	0.037	0.075	0.057	0.148	0.111	0.180	0.135	0.272	0.204	0.381	0.286
2	Well well to pump 2 line	12.62	16.0	60	0	125	250	450	500	625	900	1000	1250	1500	0.00	0.33	0.65	1.17	1.30	1.63	2.35	2.61	3.26	3.91	0.000	0.000	0.001	0.000	0.002	0.001	0.005	0.004	0.007	0.005	0.010	0.008	0.020	0.015	0.024	0.018	0.036	0.027	0.051	0.038
3	Well well to pump 3 line	12.62	6	100	0	250	500	900	1000	1250	1800	2000	2500	3000	0.00	0.65	1.30	2.35	2.61	3.26	4.69	5.21	6.52	7.82	0.000	0.000	0.001	0.001	0.003	0.003	0.010	0.007	0.012	0.009	0.018	0.014	0.036	0.027	0.043	0.033	0.066	0.049	0.092	0.069
4	Vault to Discharge MH	12.62	10298	100	0	250	500	900	1000	1250	1800	2000	2500	3000	0.00	0.65	1.30	2.35	2.61	3.26	4.69	5.21	6.52	7.82	0.000	0.000	1.908	1.435	6.860	5.173	20.410	15.346	24.802	18.648	37.478	28.179	73.577	55.321	89.412	67.227	135.107	101.584	189.306	142.335

Total Headloss (ft-water)

0.00	0.00	1.91	1.44	6.90	5.19	20.47	15.39	24.87	18.70	37.58	28.26	73.76	55.47	89.66	67.41	135.48	101.87	189.83	142.73
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MISSOURI DEPARTMENT OF NATURAL RESOURCES
 WATER PROTECTION PROGRAM
**APPLICATION FOR CONSTRUCTION PERMIT –
 SEWER EXTENSION**

FOR DEPARTMENT USE ONLY	
APP NO.	CP NO.
FEE RECEIVED	CHECK NO.
DATE RECEIVED	

NOTE ▶ Please Read the accompanying instructions before completing this form

1.0 APPLICATION INFORMATION (Note – If any of the questions in this section are answered NO, this application may be considered incomplete and returned.)

- 1.1 Is this a Federal/State funded project? YES N/A Funding Agency: Missouri SRF Project #: C295876-02
- 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? YES NO
 If the project is using standard specifications, name of community: N/A
- 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 professional engineer's seal, signature and date.

2.0 PROJECT INFORMATION

2.1 NAME OF PROJECT

Westview Pump Station

ADDRESS	CITY	STATE	ZIP CODE	COUNTY
5617 South Brooks Street	Jefferson City	MO	65109	Cole

2.2 Legal Description: $\frac{1}{4}$, $\frac{1}{4}$, $\frac{1}{4}$, Sec. 13, T 44N, R 13W

2.3 Project Components (check all that apply):

- Gravity sewers Pumping stations Force mains Alternative sewer system Other (Describe below.)

2.4 PROJECT DESCRIPTION

Duplex pump station (2 duty, 1 backup) rated at 1,800 gpm to replace an existing pump station. Pumps will be submersible pumps with an attached 230,805 gallon equalization basin to provide the required 2 hour peak storage of 192,000 gallons. 8,150 LF 12-inch force main. 1,177 LF 12-inch gravity sewer to connect the discharge of the force main at the high point to the existing sewer. No services are on the proposed gravity sewer.

2.5 DESIGN INFORMATION

- A. Population or number of lots to be served by this extension: 300
- B. Estimated flow to be contributed by this extension: Design Average Flow: 21k gpd Design Peak Hourly Flow: 30 gph
- C. Industrial Wastes: Type: N/A Flow: N/A gpd
- D. Receiving Sewer: Size: 12 inches Capacity: 2,200 gpm
- E. Does this project (check all that apply):
 Connect to an existing treatment plant Resolve enforcement issue Eliminate or consolidate an existing treatment plant
- F. Estimated number of onsite systems being removed: 0
- G: Estimated costs associated with piping: \$ 3.2M Estimated costs associated with lift station(s): \$

3.0 PROJECT OWNER

NAME Jefferson City		TELEPHONE NUMBER WITH AREA CODE 573-634-6443	EMAIL ADDRESS eseaman@jeffersoncitymo.gov
ADDRESS 320 E. McCarty	CITY Jefferson City	STATE MO	ZIP CODE 65101

CHARTER NUMBER (SECRETARY OF STATE) or REGISTERED AGENT

N/A

4.0 CONTINUING AUTHORITY: A continuing authority is a company, business, entity, or person(s) that will be legally responsible for ensuring compliance with the permit requirements and provide continuous stable oversight of the permitted facility or activity. The Continuing authority should be a relatively permanent entity responsible for the ongoing operation, maintenance and modernization, when needed, of the permitted facility or activity. A continuing authority is not, however, an entity or individual that is contractually hired by the permittee to sample or operate and maintain the system for a defined time period, such as a certified operator or analytical laboratory. To access the regulatory requirement regarding continuing authority, 10 CSR 20-6.010(2), please visit [Clean Water Commission Chapter 6](#). A continuing authority's name must be listed exactly as it appears on the Missouri Secretary of State's (SoS's) webpage: [Missouri Secretary of State](#), unless the continuing authority is an individual(s), government entity, or otherwise not required to register with the SoS.

NAME Eric Seaman		TELEPHONE NUMBER WITH AREA CODE 573-634-6443	EMAIL ADDRESS eseaman@jeffersoncitymo.gov
ADDRESS 320 E. McCarty	CITY Jefferson City	STATE MO	ZIP CODE 65101

CHARTER NUMBER (SECRETARY OF STATE)
N/A

4.1 Has appropriate continuing authority acceptance been provided as follows:
A letter from the continuing authority accepting responsibility for continued maintenance of the sewer (if the continuing authority is different than the original owner of the construction), or a properly executed "Continuing Authority and Receiving Wastewater Treatment Facility Acceptance" Form 780-2584. YES NO N/A

5.0 ENGINEER

ENGINEER NAME / COMPANY NAME Donohue & Associates		TELEPHONE NUMBER WITH AREA CODE 636.400.7046	EMAIL ADDRESS csafford@donohue-associates.com
ADDRESS 12400 Olive Blvd, Suite 120	CITY St. Louis	STATE MO	ZIP CODE 63141

6.0 RECEIVING WASTEWATER TREATMENT FACILITY

NAME Jefferson City Regional Water Reclamation Facility		TELEPHONE NUMBER WITH AREA CODE 573-634-6443	EMAIL ADDRESS eseaman@jeffersoncitymo.gov
MISSOURI STATE OPERATING PERMIT # MO-0094846		COUNTY Cole	REMAINING CAPACITY (GPD) 3MGD

6.1 If different from the owner, has a letter been provided from the receiving treatment facility demonstrating that they agree to accept the expanded flow or has a properly executed Continuing Authority and Receiving Wastewater Treatment Facility Acceptance MO 780-2584 form been provided? YES NO N/A

6.2 A letter from the receiving wastewater treatment facility, if different than the continuing authority, is included with this application.
 YES NO N/A

6.3 If the receiving treatment plant or continuing authority is regulated by the Public Service Commission (PSC) for sewer activities, a Certificate of Convenience and Necessity has been received? Yes - Date: No N/A

OPTIONAL QUESTIONS REGARDING MILITARY SERVICE

Have you or an immediate family member ever served in the U.S. Armed Forces?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
If yes, would you like information about military-related services in Missouri?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

7.0 Application Fee

<input type="checkbox"/> Check Number	<input checked="" type="checkbox"/> JetPay Confirmation Number 20068564
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8.0 PROJECT OWNER: I certify under penalty of law this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

PROJECT OWNER SIGNATURE


PRINTED NAME Eric Seaman	DATE 26 AUG 25
TITLE OR CORPORATE POSITION Wastewater Division Director	TELEPHONE NUMBER WITH AREA CODE 573-634-6410
EMAIL ADDRESS eseaman@jeffersoncitymo.gov	

Mail completed copy to: MISSOURI DEPARTMENT OF NATURAL RESOURCES WATER PROTECTION PROGRAM PO BOX 176 JEFFERSON CITY, MO 65102-0176	Submit completed electronic copy to: Missouri Department of Natural Resources at DNR.WPPEngineerSection@dnr.mo.gov
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9.0 SEWER EXTENSION CHECKLIST				
SEWER EXTENSION DESIGN CERTIFICATION: Answer all questions yes or N/A. Answer N/A only if the question is clearly not applicable to the design of the proposed sewer extension.				
	REGULATION		YES	N/A
1.	8.110(3)(A)	Is the design flow based on actual flow data for an existing system?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2.	8.110(3)(B)	Are average design flows, peak hourly flows and I&I contributions for new systems calculated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3.	8.110(9)(B)	Is there a detailed plan showing tributary area, boundaries, pertinent elevations, topography, existing and proposed facilities?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4.	8.120(2)	Does the sewer exclude water from roofs, streets, groundwater from foundation drains and combined wastewater?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5.	8.120(3)(A)	Is the pipe installation, embedment and backfill designed to prevent damage to the pipe and its joints?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6.	8.120(3)(A)1	Is all sewer pipe constructed with a slope to obtain mean velocities of not less than 2 feet per second?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7.	8.120(3)(A)2	Is the pipe covered with at least 36" of soil or sufficiently insulated to prevent freezing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8.	8.120(3)(B)	Is deflection testing specified to ensure no pipe exceeds a deflection of 5% of the inside diameter?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
9.	8.120(4)(A)	Are manholes located at the end of each line, at all changes in grade, size or alignment and at all intersections?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
10.	8.120(4)(C)	Are manholes at least 42 inches in diameter with a clear opening of 22 inches on sewer line larger than 8"?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
11.	8.120(4)(C)	Where cleanouts are used at the end of a lateral instead of a manhole, they are a minimum diameter of 8 inches or larger and equal to the diameter for pipes < 8"?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
12.	8.120(4)(E)	Are the manholes watertight, constructed and installed in accordance with the manufacturer's recommendations and procedures?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
13.	8.120(4)(F)	Do the specifications include a requirement for inspection and testing for manholes?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
14.	8.120(5)(A)	Is the sewer free from physical connections to a potable water supply system and no water pipes come in contact with a sewer manhole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
10.0 PRESSURE SEWERS, GRINDER PUMP, STEP AND STEG SEWER CHECKLIST				
	REGULATION		YES	N/A
16.	8.125(5)(A)1.	Does the cleaning velocity of ≥ 2 ft/s happen more than once per day?	<input type="checkbox"/>	<input type="checkbox"/>
17.	8.125(5)(A)2.	Is the diameter of the pressure sewer main pipe at least 1.5"?	<input type="checkbox"/>	<input type="checkbox"/>
18.	8.125(5)(B)	Are appurtenances compatible with the piping system?	<input type="checkbox"/>	<input type="checkbox"/>
19.	8.125(5)(B)2.	Are isolation valves located: upstream of major pipe intersections; both sides of stream, bridge and RR crossings; at terminal end of system?	<input type="checkbox"/>	<input type="checkbox"/>
20.	8.125(5)(C)	Do service line pipes have a minimum diameter of 1.25"?	<input type="checkbox"/>	<input type="checkbox"/>
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.	<input type="checkbox"/>	<input type="checkbox"/>
22.	8.125(5)(D)1.B	Are multiple unit pump stations owned, operated and maintained by an approved continuing authority?	<input type="checkbox"/>	<input type="checkbox"/>
23.	8.125(5)(D)3.	Is there at least 70 gallons of storage in the grinder pump unit?	<input type="checkbox"/>	<input type="checkbox"/>
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?	<input type="checkbox"/>	<input type="checkbox"/>
25.	8.125(5)(D)7., 8.130(3)(B)2.	Are units serviceable and replaceable under wet conditions without electrical hazard and is electrical equipment suitable for hazardous locations (National Electrical Code, Class I, Group D, Division 1 location)?	<input type="checkbox"/>	<input type="checkbox"/>
26.	8.125(5)(D)8., 8.125(2)(F)6.	Are provisions in place to avoid interruption of service due to mechanical or power failure by providing standby power, storage capacity, or interconnection with another disposal system?	<input type="checkbox"/>	<input type="checkbox"/>
27.	8.125(6)(D)	In a STEP system is at least one septic tank (1,000 gallons or more) provided for each EDU with 20% of tank volume dedicated to freeboard and ventilation?	<input type="checkbox"/>	<input type="checkbox"/>
28.	8.125(6)(F)	Are duplex pumps provided for the design flow of 1,500 gallons or greater?	<input type="checkbox"/>	<input type="checkbox"/>

11.0 PUMP STATION CHECKLIST				
	REGULATION		YES	N/A
29.	8.125(7)(C)	Is the minimum diameter sewer main pipe and service line of STEG sewer at least 4"?	<input type="checkbox"/>	<input type="checkbox"/>
30.	8.130(2)(A) 8.140(2)(B)	Is the pump station designed to withstand the 100-year flood?	<input type="checkbox"/>	<input type="checkbox"/>
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?	<input type="checkbox"/>	<input type="checkbox"/>
32.	8.130(3)(B)	If the design flow is 1,500 gpd or more, are there at least 2 pumps or pneumatic ejectors provided?	<input type="checkbox"/>	<input type="checkbox"/>
33.	8.130(3)(D)	Are valves located outside wet well unless integral to a pump or its housing?	<input type="checkbox"/>	<input type="checkbox"/>
34.	8.130(3)(F) 8.140(8)(J)	Do wet and dry wells have separate ventilation systems?	<input type="checkbox"/>	<input type="checkbox"/>
35.	8.130(3)(G)	Does all potable water brought to pump stations comply with 8.140(7)(D)?	<input type="checkbox"/>	<input type="checkbox"/>
36.	8.130(6)	Is an alarm system provided with uninterrupted power?	<input type="checkbox"/>	<input type="checkbox"/>
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?	<input type="checkbox"/>	<input type="checkbox"/>
38.	8.130(7)(B)	Are there independent utility substations provided for emergency power capable of starting and operating the pump station at its rated capacity?	<input type="checkbox"/>	<input type="checkbox"/>
39.	8.130(8)(A)	Is the force main velocity of ≥ 2 ft/s maintained?	<input type="checkbox"/>	<input type="checkbox"/>
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?	<input type="checkbox"/>	<input type="checkbox"/>

12.0 SUCTION LIFT PUMP AND SUBMERSIBLE PUMP STATION CHECKLIST				
	REGULATION		YES	N/A
41.	8.130(4)	Are the suction lift pumps of the self priming or vacuum priming type?	<input type="checkbox"/>	<input type="checkbox"/>
42.	8.130(4)(A)	Is the combined total of dynamic suction lift at the "pump off" elevation and required net positive suction head at design operating conditions less than or equal to 22 feet?	<input type="checkbox"/>	<input type="checkbox"/>
43.	8.130(4)(B)	Are there dual vacuum pumps capable of removing air from the suction lift pump?	<input type="checkbox"/>	<input type="checkbox"/>
44.	8.130(5)(A)	Are submersible pumps readily removable and replaceable without personnel entering, or disconnecting any pipe in the wet well?	<input type="checkbox"/>	<input type="checkbox"/>

13.0 SEWER EXTENSION CHECKLIST -- CERTIFICATION STATEMENT

For any questions answered "N/A" provide an explanation. Also provide any useful general comments regarding design for review engineer.

- 8.120(4)(C) - No clean outs are proposed for the gravity sewer. No services are connected to the gravity sewer.
- 8.120(5)(B) - No potable water sources are proposed.

Missouri Professional Engineer's seal, signature and date:



Christopher M. Safford
08/26/25

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