



Department of Natural Resources  
and Environmental Control

89 Kings Hwy  
Dover, DE 19901

dnrec.delaware.gov

Division of Water  
Commercial and Government Services Section

Phone: (302) 739-9946

Fax: (302) 739-2296

## **INSTRUCTIONS FOR COMPLETING THE PERMIT APPLICATION FOR THE CONSTRUCTION OF WASTEWATER COLLECTION AND CONVEYANCE SYSTEMS**

The following items must accompany the application. **Please note that incomplete application packages will be returned in their entirety and not reviewed until such time as all required information is received.**

- ☒ 1. A narrative summary of the intended purpose and design of the proposed facilities.
- ☒ 2. One (1) set of final construction plans and specifications (paper copy), if applicable, signed and sealed by a Delaware-registered Professional Engineer, or a Delaware-registered Professional Land Surveyor for gravity systems only.
- ☒ 3. One (1) electronic copy of final Plans.
- ☒ 4. The final plans must be drawn to scale showing slopes, inverts, pipe types and sizes, existing and proposed ground surfaces, tops of manholes, water lines, stormwater and stream crossings, encasements shown in plan and profile, and other information if pertinent or requested.
- ☒ 5. For pump/lift stations and force mains, include all calculations and pump/performance curves.
- ☒ 6. A check made payable to the State of Delaware for eight hundred twenty-five dollars (\$825.00), the non-refundable permit review fee. This fee covers the initial review and one follow-up review of any corrections or changes made to address the Division's comments. An additional eight hundred twenty-five dollars (\$825.00) non-refundable review fee must be submitted for resubmission of the plans if changes are made to the project which trigger a complete review of the permit application.
- ☐ 7. Your permit will have a public notice requirement if your system includes force mains or pump/lift stations. Include a check made payable to the State of Delaware for three hundred dollars (\$300.00) for the reimbursement of legal notices if the system has a force main connection or a pump/lift station.
- ☒ Please submit the completed application package, as outlined above, to DE DNREC, Division of Water, Commercial and Government Services Section, 89 Kings Highway, Dover, DE 19901. Please note, a new application, including the review fee, must be submitted if the Division's comments are not addressed or if requested supplemental information is not provided within one (1) year of the comment or request date.
- ☒ The following items must be submitted prior to permit issuance:
- ☒ 8. Verification from the appropriate county or municipal planning authority that the project has the proper zoning approval.
- ☒ 9. A letter from the owner/operator of the wastewater facilities to which the proposed collection and conveyance facilities connect. The letter must include confirmation that the owner/operator has approved the project, that the owner/operator will take responsibility for treating and disposing of the wastewater to be conveyed and that the downstream facilities have the capacity to manage the additional flows without causing or contributing to violations of Delaware's Environmental Protection Act (7 Del. C., Chapter 60) and the regulations promulgated thereafter. This includes, but is not limited to, unauthorized discharges such as overflows at manholes and violations of the treatment system's operating permit (for example, the National Pollutant Discharge Elimination System (NPDES) permit).

- Visit us on the web at: <https://dnrec.delaware.gov/water/commercial-government/>

**APPLICATION FOR THE CONSTRUCTION OF  
WASTEWATER COLLECTION AND CONVEYANCE SYSTEMS**

Application must be complete, typewritten or clearly printed

Date Application Submitted 10/28/2025

PROJECT INFORMATION			
Project Name and Location/ Address  Freeman Arts Pavilion Americana Parkway and Lakeview Drive - Americana Bayside			
Tax Parcel Number(s) 533-19.00-864.00 & 881.00			
County <input type="checkbox"/> Kent <input type="checkbox"/> New Castle <input checked="" type="checkbox"/> Sussex		Watershed (www.dnrec.delaware.gov/swc/wa/Pages/WatershedAssessment.aspx) <input type="checkbox"/> Chesapeake Bay <input checked="" type="checkbox"/> DE Bay/Estuary <input type="checkbox"/> Inland Bays/Atl Ocean <input type="checkbox"/> Piedmont	
Sewer District or Interceptor Fenwick Island Sanitary Sewer District		Wastewater Treatment/Disposal Facility Name South Coastal Regional WWTF	
Anticipated Construction Start Date October 2025		Treatment/Disposal Facility Owner and Operating Permit Number Sussex County	
Please note, construction permits expire three (3) years from the date of permit issuance.			
Are you requesting plan review and comment or <span style="border: 1px solid black;">WPCC Construction Permit issuance?</span> (circle one)			
Design Flow (gallons/day) Average 48,200	Peak 2.3	Peak Factor 108,100	Basis of Design 250 GPD/EDU
Description Gravity sewer re-route via force main under the parking lot on Parcel 864.00 to avoid the County Sewer from being located on Freeman Arts Parcel 881.00 (privately owned). Privately owned E-One Grinder Pump Station, force main and gravity sewer for Freeman Arts Pavilion			
OWNER/DEVELOPER			
Company Name Freeman Arts Pavilion, Inc./Joshua M. Freeman Foundation			
Mailing Address 31255 Americana Parkway			
City Selbyville	State DE	Zip 19975	
Contact Name Patti Grimes			
E-Mail Address patti@freemanfoundation.org			
Telephone 302-436-3003	Cell	Fax	

ENGINEER					
Company Name <b>George, Miles &amp; Buhr, LLC.</b>					
Mailing Address <b>206 West Main Street</b>					
City <b>Salisbury</b>			State <b>MD</b>		Zip <b>21801</b>
Contact Name <b>Christopher Pfeifer</b>					
E-Mail Address <b>cpfeifer@gmbnet.com</b>					
Telephone <b>410-742-3115</b>		Cell		Fax	
GRAVITY SEWER INFORMATION					
Ownership <input checked="" type="checkbox"/> Public <input checked="" type="checkbox"/> Private		Type of Sewer System <input checked="" type="checkbox"/> Residential <input type="checkbox"/> Commercial <input type="checkbox"/> Industrial <input checked="" type="checkbox"/> Other?		If Other, list below <b>Seasonal Assembly</b>	
Type of Pipe <b>PVC SDR35</b>		Length (ft) <b>24 LF</b>	Diameter (in) <b>8"</b>	Joint Specification <b>BELL &amp; SPIGOT</b>	Min. Slope (ft/ft) <b>0.001</b>
<b>PVC SDR35</b>		<b>7 LF</b>	<b>6"</b>	<b>BELL &amp; SPIGOT</b>	<b>0.000</b>
<b>PVC SDR35</b>		<b>459 LF</b>	<b>6"</b>	<b>BELL &amp; SPIGOT</b>	<b>0.000</b>
Minimum Pipe Cover (ft) <b>4.30'</b>		Number of Manholes <b>1</b>	Drop manholes provided? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Maximum Distance Between Manholes (ft) <b>24'</b>
Minimum ten foot (10') horizontal & eighteen inch (18") vertical separation from water lines maintained? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			If not, explain provisions to prevent cross-contamination:		
Explain any special challenges (for example, stream, highway and/or railroad crossings, directional drilling, elevated sewers, etc.)  <b>Directional drill of force main between existing manholes MH-17 &amp; MH-21</b>					
Comments					
<div style="display: flex; justify-content: space-between;"> <span><b>PVC SDR35</b></span> <span><b>129</b></span> <span><b>4"</b></span> <span><b>BELL &amp; SPIGOT</b></span> <span><b>0.0104</b></span> <span><b>2.00</b></span> </div>					

PUMP/LIFT STATION INFORMATION				
Ownership <input type="checkbox"/> Public <input checked="" type="checkbox"/> Private		Type of Wastewater <input type="checkbox"/> Residential <input type="checkbox"/> Commercial <input type="checkbox"/> Industrial <input checked="" type="checkbox"/> Other?		If Other, list below <b>Seasonal Assembly</b>
Pump Station Flows (gallons/day) Design <div>1200</div>		Average <div>600</div>	Peak <div>10 gpm</div>	Peak Factor <div>3</div>
Basis of Design			Pump Type <b>E-One Positive Displacement DH-152</b>	
Will peak flows be accommodated if largest unit fails? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Pump calc's and pump curves attached? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Cycle Time (minutes) <div>10</div>
		Wet Well Detention Time (minutes) <div>10</div>		
Check valves provided on discharge line? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			Gate valves provided on discharge line? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
If not, explain alternate procedure: <div>E-One Grinder Pump Station</div>				
Ventilation provided in wet well? <input type="checkbox"/> Yes <input type="checkbox"/> No		Dry Well? <input type="checkbox"/> Yes <input type="checkbox"/> No		Is an alarm system included? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
		Alternate source of power? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
What other provisions for emergency operations?				
Height of Influent Above Pump (suction head) (ft) <div>5</div>		Height of Effluent Above Pump (discharge head) (ft) <div>3</div>		Friction Loss (ft) <div>2</div>
Pump Design Point	Pump Operating Point	Static Head (ft) <div>8</div>	Total Head (ft) <div>10</div>	Required Motor Horsepower (hp) <div>1 HP</div>
FORCE MAIN INFORMATION				
Type of Pipe <b>HDPE</b> <b>HDPE</b>		Length (ft) <div>474 LF</div> <div>430 LF</div>		Diameter (in) <div>4"</div> <div>1-1/2"</div>
Hazen-Williams "C" Design Factor <div>150</div>	Type of Joints <b>Gasketed</b>		Velocity Under Design Conditions (ft/sec) <div>2.0</div>	Minimum Pipe Cover (ft) <div>3.5'</div>
Air relief valves specified? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Clean-outs provided? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Maximum distance between clean-outs (ft)
Minimum ten foot (10') horizontal & eighteen inch (18") vertical separation from water lines maintained? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		If not, explain provisions to prevent cross-contamination:		
Comments 4" Force Main under parking lot is a re-route of existing Sussex County Force Main servicing the Golf Facility Clubhouse, restaurants and Village A residential phase. 1-1/2" Force Main is a Private E-One Grinder Station on-site within the Freeman Arts Pavilion Parcel.				