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Division of Water

Division of Water  
Commercial and Government Services Section

Department of Natural Resources  
and Environmental Control  
89 Kings Hwy  
Dover, DE 19901  
dnrec.delaware.gov

Phone: (302) 739-9946  
Fax: (302) 739-8369

## 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, if applicable, signed and sealed by a Delaware-registered Professional Engineer, or a Delaware-registered Professional Land Surveyor for gravity systems only. One (1) electronic copy of final Plans.
- ☒ 3. One (1) electronic copy of final Plans.
- ☒ 4. The final plans must be drawn to scale showing slopes, invert, 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.alpha.delaware.gov/water/surface-water/>

# APPLICATION FOR THE CONSTRUCTION OF WASTEWATER COLLECTION AND CONVEYANCE SYSTEMS

Application must be complete, typewritten or clearly printed

Date Application Submitted 6/6/2025

PROJECT INFORMATION			
Project Name and Location/ Address Bridgeville Warehouses - 20354 Sussex Highway, Bridgeville, DE 19933			
Tax Parcel Number(s) 131-19.00-4.00			
County <input type="checkbox"/> Kent <input type="checkbox"/> New Castle <input checked="" type="checkbox"/> Sussex	Watershed ( <a href="http://www.dnrec.delaware.gov/swc/wa/Pages/WatershedAssessment.aspx">www.dnrec.delaware.gov/swc/wa/Pages/WatershedAssessment.aspx</a> ) <input checked="" type="checkbox"/> Chesapeake Bay <input type="checkbox"/> DE Bay/Estuary <input type="checkbox"/> Inland Bays/Atl Ocean <input type="checkbox"/> Piedmont		
Sewer District or Interceptor	Wastewater Treatment/Disposal Facility Name		
Anticipated Construction Start Date	Treatment/Disposal Facility Owner and Operating Permit Number		
Please note, construction permits expire three (3) years from the date of permit issuance.			
Are you requesting plan review and comment or WPCC Construction Permit issuance? (circle one)			
Design Flow (gallons/day) Average 10,250 GPD	Peak 712 GPM	Peak Factor 3.45	Basis of Design 41 EDU
Description This project will consist of a flex 78,000 square foot warehouse complex consisting of eight 9,750 square foot buildings and associated drive aisle and parking lot improvements.			
OWNER/DEVELOPER			
Company Name FDPN Management, LLC			
Mailing Address P.O. Box 578			
City Dover	State DE	Zip 19903	
Contact Name Frank DiMondi			
E-Mail Address fdimondi@msn.com			
Telephone (302)730-0150	Cell	Fax	

<b>ENGINEER</b>					
<b>Company Name</b> Becker Morgan Group, Inc.					
<b>Mailing Address</b> 309 S. Governors Ave.					
<b>City</b> Dover			<b>State</b> DE		<b>Zip</b> 19904
<b>Contact Name</b> Jonathan D. Richard, P.E.					
<b>E-Mail Address</b> jrichard@beckermorgan.com					
<b>Telephone</b> (302)734-7950		<b>Cell</b>		<b>Fax</b> (302)734-7965	
<b>GRAVITY SEWER INFORMATION</b>					
<b>Ownership</b> <input type="checkbox"/> Public <input checked="" type="checkbox"/> Private	<b>Type of Sewer System</b> <input type="checkbox"/> Residential <input type="checkbox"/> Commercial <input checked="" type="checkbox"/> Industrial <input type="checkbox"/> Other?			If Other, list below	
<b>Type of Pipe</b> PVC SDR 35	<b>Length (ft)</b> 1,120	<b>Diameter (in)</b> 8"	<b>Joint Specification</b> Push Joint	<b>Min. Slope (ft/ft)</b> 0.005 ft/ft	<b>Min. Velocity (ft/sec)</b> 2.00 ft/sec
<b>Minimum Pipe Cover (ft)</b> 3.78'		<b>Number of Manholes</b> 8	<b>Drop manholes provided?</b> <input type="checkbox"/> Yes <input type="checkbox"/> No		<b>Maximum Distance Between Manholes (ft)</b> 270.5'
<b>Minimum ten foot (10') horizontal &amp; eighteen inch (18") vertical separation from water lines maintained?</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			<b>If not, explain provisions to prevent cross-contamination:</b>		
<b>Explain any special challenges (for example, stream, highway and/or railroad crossings, directional drilling, elevated sewers, etc.)</b> N/A					
<b>Comments</b>					

PUMP/LIFT STATION INFORMATION				
Ownership <input type="checkbox"/> Public <input checked="" type="checkbox"/> Private		Type of Wastewater <input type="checkbox"/> Residential <input checked="" type="checkbox"/> Commercial <input type="checkbox"/> Industrial <input type="checkbox"/> Other?		If Other, list below
Pump Station Flows (gallons/day) Design 43 EDU		Average 10,750 GPD	Peak 26,875 GPD	Peak Factor 2.5
Basis of Design 43 EDU			Pump Type Semi-Positive Displacement (e)one	
Will peak flows be accommodated if largest unit fails? <input type="checkbox"/> Yes <input type="checkbox"/> No		Pump calc's and pump curves attached? <input type="checkbox"/> Yes <input type="checkbox"/> No	Cycle Time (minutes) 5.2 min Run Time w/ Inflow	Wet Well Detention Time (minutes) Fill Time 2.6 min (Peak)
Check valves provided on discharge line? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			Gate valves provided on discharge line? <input type="checkbox"/> Yes <input type="checkbox"/> No	
If not, explain alternate procedure: N/A				
Ventilation provided in wet well? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Dry Well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Is an alarm system included? <input 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? Quadraplex Pump Station				
Height of Influent Above Pump (suction head) (ft) na		Height of Effluent Above Pump (discharge head) (ft) na		Friction Loss (ft) 9.3
Pump Design Point 28 GPM	Pump Operating Point	Static Head (ft) 10	Total Head (ft) variable pumps effective to 185'	Required Motor Horsepower (hp) 1
FORCE MAIN INFORMATION				
Type of Pipe SDR 11 HDPE		Length (ft) 92 L.F.		Diameter (in) 2"
Hazen-Williams "C" Design Factor 150	Type of Joints Butt Weld	Velocity Under Design Conditions (ft/sec)	Minimum Pipe Cover (ft) 3.90	
Air relief valves specified? <input 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) N/A		
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				