

3020/24

RECEIVED MAR 1 5 2024 DNREC Division of Water

ARCHITECTS **ENGINEERS**

206 WEST MAIN STREET SALISBURY, MD 21801 PH: 410.742.3115 PH: 800,789.4462 FAX: 410.548.5790

> SALISBURY BALTIMORE SEAFORD

www.gmbnet.com

. . . .

TRANSMITTAL

GMB NO: 230004 DATE: March 8, 2024

Oaks at Georgetown - Phase 2 TO: **DNREC** RE:

Division of Water Pump Station

Town of Georgetown, DE Commercial & Government Services Section 89 Kings Highway

UPS ATTN: Plan Reviewer Ground

Dover, DE 19901

DESCRIPTION

1 Oaks at Georgetown- Pump Station Plans (24 x 36)

Oaks at Georgetown - Pump Station Plans (electronic) 1

Oaks at Georgetown – Pump Station Application for Pumpstation WPCC 1

1 Oaks at Georgetown – Pump Station Specifications

1 Narrative Summary

Town of Georgetown Planning Commission Meeting Minutes, dated 1

8/16/2023, Approval of Preliminary Site Plan

1 GMB Check - \$300.00 - Advertising Fee

1 GMB Check - \$825.00 - Review Fee

REMARKS: Please find enclosed the Oaks at Georgetown - Pump

> Station Sewer Plans, Application, Narrative Summary, Zoning Approval Specifications, and Review Fee for your review and approval. Please contact our office with

any questions or comments.

COPIES TO:

COPIES:

JLAM GT Oaks, LLC

Attn: Doug Motley (w/o encl.)

Chris Derbyshire, P.E. Sr. Vice President

The Oaks at Georgetown

Pump Station

Narrative Summary

The Oaks development pump station consists of a new developer-built pump station that will be turned over to the Town of Georgetown after completion. The proposed pump station will serve 387 equivalent dwelling units (EDUs), those EDUs are comprised of units in Phases 2 & 3 (367) of the development and an allowance of 10 EDUs for each of the two (2) pool houses. The gravity sewer collection system for Phase 2 was previously submitted to DNREC under separate cover. Phase 3 will be a future development phase of the project.

The pump station will consist of a six (6) foot diameter, round precast concrete wet well with two (2) 23HP submersible non-clog pumps w/removable guiderail system and wet well ventilation supply fan. The station will also include a precast concrete valve vault to house check valve and isolation valves, emergency bypass pumping connection, emergency generator and controls cabinet. Alarms will be monitored through the Town's SCADA system.

The pump station has an operating capacity of approximately 218 gpm, which satisfies the design point of 212 gpm. The pumps have been designed to operate under flow conditions developed by the Town's Engineering Consultant (DB&F) as the proposed 4-inch force main connects to a 20-inch sewage force main located along Arrow Safety Road. When the 20" FM is under design/high flow condition, the pressure at 4" FM connection point will be 43 psi and under low flow conditions 21.5 psi. The Oaks PS is designed to achieve its rated capacity at high flow pressure condition. Under low flow conditions, the reduced pressure at tie-in will allow the pump station to "run out" and operate at 320 gpm. The wet well levels for the proposed PS have been set to allow the design Tmin to be achieved during run out pumping condition.



Division of Water Commercial and Government Services Section

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

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, 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.
- 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. A check made payable to the State of Delaware for three hundred dollars (\$300.00) for the reimbursement of legal notices (advertisement filing expense.)

☑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/

Phone: (302) 739-9946

Fax: (302) 739-8369

APPLICATION FOR THE CONSTRUCTION OF WASTEWATER COLLECTION AND CONVEYANCE SYSTEMS Application must be complete, typewritten or clearly printed

Date Application Submitted 3/11/2024

THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TW		PROJECT IN	FORMATION						
Project Name and Location/ Addre	ess								
Oaks at Georgetown - Ph Pump Station 24015 Crab Apple Court,		getown, DE 19947							
Tax Parcel Number(s) 135-20.00-6.00									
County Watershed (www.dnrec.delaware.gov/swc/wa/Pages/WatershedAssessment.aspx)									
☐ Kent ☐ New Castle Su	issex		☐ Chesapeake Bay ☒ DE Bay/Estuary ☐ Inland Bays/Atl Ocean ☐ Piedmont						
Sewer District or Interceptor		Wastewater Treatment/D	•	e					
Town of Georgetown		Town of Georgeto	own						
Anticipated Construction Start Dat	te	Treatment/Disposal Faci	lity Owner and Opera	ting Permit	Number				
10/2024		Town of George	etown WWTP						
Please note, construction permi	its expir	e three (3) years from the	e date of permit issu	iance.					
Are you requesting plan review	and co	mment or WPCC Constr	uction Permit issua	nce? (circle	e one)				
Design Flow (gallons/day)			Peak Factor		Basis of Design				
Average	Peak	04.762	3.5		225 GPD/EDU				
87,075	3	04,763							
Description The Oaks development pump stati after completion. The proposed pup Phases 2 & 3 (367) of the develop	ump stati	on will serve 387 equivalent	t dwelling units (EDUs), those EDI	Js are comprised of units in				
		OWNER/DI	EVELOPER						
Company Name									
JLAM GT Oaks, LLC.									
Mailing Address									
246 Rehoboth Ave.			1						
City Rehoboth Beach			State Zip DE		19971				
Contact Name Doug Motley									
E-Mail Address dmotley@jlamre.com									
Telephone		Cell		Fax					
302-226-6645	3645								

			ENG	INEER						
Company Name George, Miles & Bu	ıbr II C									
Mailing Address	arii, ELO,									
206 West Main St	reet									
City			State		Zip					
Salisbury				MD		21801				
Contact Name Christopher B. Der	hyshire PF									
E-Mail Address	bysilie, i .L _a									
cderbyshire@gmbi	net.com									
Telephone		Cell			Fax					
410-742-3115		443-61	4-8920)						
	GRAVITY SEWER INFORMATION									
Ownership	Type of Sewer S				If Other, list below					
☐ Public ☐ Private				ustrial Other?						
Type of Pipe	Length (ft)	Diameter (in)) Joir	Joint Specification		Slope (ft/ft)	Min. Velocity (ft/sec)			
Minimum Pipe Cover (ft)	Number of M	1anholes	1	anholes provided?	Maxi	mum Distance Bety	ween Manholes (ft)			
Minimum ten foot (10') h	Minimum ten foot (10') horizontal & eighteen inch (18") If not, explain provisions to prevent cross-contamination:									
vertical separation from water lines maintained?										
☐ Yes ☐ No										
Explain any special challe	nges (for example,	stream, highwa	ay and/or	railroad crossings, d	irection	al drilling, elevated	sewers, etc.)			
Comments Submitted under separate application.										
	Cabillitica	ander oepai	ate ap	onoution,						

PUMP/LIFT STATION INFORMATION											
Ownership	hip Type of Wastewater							If Other, list below			
🗷 Public 🗆 Private	⊠ Resid	X Residential □ Commercial □ Industrial □ Other?									
Pump Station Flows (gallons/day) Average Peak 304,763 87,075 gpd 30					Peak Factor 04,763 3.5						
Basis of Design	/ault		Pump Type Submersible, Non-Clog								
Submersible Wet Well w/Separte Valve Vaul											
Will peak flows be accommodated if Pump cale's curves attact				ed?			(minutes)				
X Yes □ No		X X	es □ No	Tmin = 7 Minutes			18.5 Min (above pump off)				
Check valves provided on d	lischarge lin	ie?			T	Gate valves pro	vided on	discharg	ge line?		
ĭ Yes □ No						🛚 Yes 🗆 No					
If not, explain alternate prod	cedure:										
Ventilation provided in wet	well?	Dry \	Well?		Τ	Is an alarm sys	tem inclu	ded?	Alternate source of power?		
☑ Yes □ No		🗆 Y	es 🛭 No			🛚 Yes 🗆 No	•	X Yes □ No			
What other provisions for e	mergency o	peratio	ns?		_						
Bypass pumpi	ng conne	ection	1.								
(suction head) (ft) (dischar			(discharge	of Effluent Above Pump urge head) (ft) 13.83			Friction Loss (ft) 26.52 + 43 psi (DBF tie-in)				
Pump Design Point					ad	ad (ft) Total Head (ft)				Required Motor	
212 gpm	0.40/000			13	3.83 139 ft @ 2			@ 212	gpm	Horsepower (hp)	
	er yer		FORC	E MAI	IN	INFORMAT	TION		4		
Type of Pipe						Length (ft) Diameter (in)			er (in)		
PVC [)R18				1,146			4			
Hazen-Williams "C" Design	n Type o	f Joints	3			Velocity Under	Minimum Pipe Cover (ft)				
Factor 140	Decelor and Considerational					Conditions (ft/sec) 4.7 fps 4			4		
Air relief valves specified?	- ·										
ĭ Yes □ No □ Yes ☒ No						N/A					
Minimum ten foot (10') horizontal & eighteen inch (18") vertical separation from water lines maintained?							on:				
☑ Yes □ No											
Comments None.											
1,351,51											

TOWN OF GEORGETOWN - PLANNING COMMISSION

Meeting Minutes August 16, 2023

ATTENDANCE

Commissioners
Larry Rohlfing
Linda Dennis
Lance Mears - absent
Edwin Wise - absent
Eric Evans

Staff
Jocelyn Huff, Planning
Jamie Craddock, Planning
Tim Willard, Solicitor
Ring Lardner, Engineer
Stephanie Roblero, Planning

1. CALL MEETING TO ORDER

Commission Chair Rohlfing called the meeting to order at 6:00 p.m.

2. APPROVAL OF JULY 19, 2023 MEETING MINUTES

Commissioner Evans moved, seconded by Commissioner Dennis, to approve the July 19, 2023 regular meeting minutes as presented. **APPROVED** (UNANIMOUS)

3. PRELIMINARY SITE PLAN REVIEW

A. 2023-04 THE OAKS AT GEORGETOWN - PHASE 2 (AMENDED)

An application by JLAM GT OAKS, LLC., for the preliminary review and approval of phase 2, to construct 216 townhomes, club house and pool. The property is located at the corner of South Bedford Street & Arrow Safety Road, identified as SC Tax Parcels 135-20.00-6.00, 498.00-893.00, mixed zoned MR1 (Multifamily Residential District)/UR1 (Urban Residential District) with an RPC Overlay (Residential Planned Community).

Steve Marsh, of GMB LLC, presented the application. Also in attendance is Lawton Myrick, of GMB, and developer Doug Motley, of JLAM GT Oaks LLC.

The project received original approval in 2008. Phase 1 involved the construction of the apartments. Phase 2 includes the townhouses with a reduction from 244 units to 216 units and the widths of the units are increasing from 22 feet to 24 feet. Amenities of a pool and community center have been added along with a dog park and pond overlook area. Additional sidewalk and trails were added to connect the internal sidewalks with the multimodal path to loop around this quadrant. The units will now be front loading instead of rear loading, without alleys behind the units as originally approved. Construction of a new pump station will be included with this phase and the stormwater retention area. The applicant is working with DelDot on modifications to the entrance on South Bedford Street.

The Commission questioned amenity access between townhouse and apartment residents and the applicant confirmed access is by key fobs. Applicant was asked to consider a large enough one car garage to handle most larger vehicles. Confirmation Town of Georgetown - Planning Commission Meeting Minutes August 16, 2023 Page 2 of 2

was requested that privacy fence will be installed for all units and consideration of lawn mowing by contracted companies.

Additional buffer of raised undulation (mounds) in the buffer along the exterior of the phase was requested.

Commissioner Evans moved, seconded by Commissioner Dennis, to APPROVE the application contingent upon the following:

- 1. Satisfaction of Town Engineer's comments
- 2. Receipt of State/outside agency approvals
- 3. Engineer approval of raised undulation in the buffer, once submitted.

Rollcall vote:

Commissioner Evans - Yes, as discussed.

Commissioner Dennis - Yes.

Chairman Rohlfing - Yes, project looks good and in favor of improvements to the plan.

<u>APPROVED</u> (UNANIMOUS)

4. REVIEW AND ADOPTION OF PUBLIC COMMENT GUIDELINES

Commissioner Dennis moved, seconded by Commissioner Evans, to approve the Public Comment Guidelines, as presented. <u>APPROVED</u> (UNANIMOUS)

5. PUBLIC COMMENT

Charlie Koskey, 21407 Park Avenue, is the chairman of the Megee tax ditch which the project empties into. Concern was expressed for the stormwater management to be provided. Commission asked to ensure it is adequate.

6. PLANNING DEPARTMENT REPORT

Project updates were provided to the Commission.

7. ADJOURNMENT

Commissioner Evans moved, seconded by Commissioner Dennis, to adjourn the meeting at 6:35 p.m. **APPROVED** (UNANIMOUS)

APPROVED:

Larry Roblfing, Chairperson

ATTEST:

Jocelyn Huff, Planning

50		March 2	20, 2024				27
	RCVD FROM	George	Miles & Buhr, LLC	-			\$825.00
		Eight H	undred twenty-fiv	DOLLARS			
	FOR	Plan re	view fee WPCC 3	020/24 Oa	ks at George	town Pum	p Sta
Ш							
()	ACCT	\$	825.00	x	CHECK#	3960	
\sim	PAYMENT	\$	825.00		CASH		
RECEIP		\$	(-):		OTHER	ВҮ	Kevin Bronson
		NDEC 6	urface Water Dis	oborgoe S	ostion 90 Ki	nge Hun	Dovor DE 19901

		March 2	20, 2024				28				
	RCVD FROM	George,	Miles & Buhr, LL	\$300.00							
0_		Three H	Three Hundred Dollars and 00/100 DOLLARS								
	FOR	WPCC I	WPCC Legal Notice Reimbursement 3020/24								
Ш											
()	ACCT	\$	300.00	х	CHECK #	3961					
	PAYMENT	\$	300.00		CASH						
RECEIP		\$	£"		OTHER	BY	Kevin Bronson				
	D	NREC, S	urface Water Dis	charges S	ection, 89 Ki	ings Hwy,	Dover, DE 19901				