

18072 Davidson Drive Milton, DE 19968 (302) 684-8030 www.pennoni.com

3074/24

LETTER OF TRANSMITTAL

TO:

DNREC, DIVISION OF WATER, SWDS
89 KINGS HIGHWAY
DOVER, DE 19901

$) \cup I \cup I$			DATE	: Septemb	er 04,	2024 JOB	NO. ENFCX21001					
, •			ATTE	NTION: M	r. GOF	RDON WOOD	ROW					
			RE:	RE: EAGLES NEST SENIOR CARE FACILITY 235-8.00-35.06								
WE ARE SEN		☐ Attached	□ Une	der separate cove	ır via	UPS	the following items:					
	hop Drawings opy of Letter	☐ Prints ☐ Change	Order	☐ Plans ☐ Samples ☐ Specifications Order ☐								
	opy of Letter		Oldei									
	TEMS TRAN	T										
COPIES	DATE	NO:	DESC	RIPTION								
1		1	Eagle	s Nest Waste	water	Narrative Fina	l					
1		2	Check	#1020 \$825	5.00							
1		3	Check	#1021 \$300	0.00		RECEIVED					
1		4	WPCC	-Application	Ì							
1		5	PS Co	mputations			SEP 05 2024					
1		6	Ability	and Plan Ap	proval	Letter	DNREC					
1		7	Notice	of Decision			Division of Water					
1		8	PB427	7 PG84								
1		9	Const	ruction Set								
1		10	Offsite	e Utility Set								
11		11	CD - F	PDF'S								
HESE ARE TRAN	ISMITTED as che	ecked below:										
☐ Fo	or approval	[☐ Approv	ed as submitted		☐ Resubmit	copies for approval					
☐ Fo	or your use	[Approv	ed as noted		Submit	copies for distribution					
☐ As	s requested	[☐ Return	ed for corrections	3	Return	corrected prints					
☐ Fo	or review and cor	nment [
☐ F0	OR BIDS DUE					☐ PRINTS RETU	RNED AFTER LOAN TO US					
REMARKS:		tions please I Associates		ct this office,	Mr. A	lan Decktor, <u>ac</u>	lecktor@pennoni.com					
COPY TO:				-								
				SIGNED): K:	atherine F Dav	idson/file					



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

Division of Water Commercial and Government Services Section

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.
- 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/

Document last revised: April 30th, 2024

Phone: (302) 739-9946

Fax: (302) 739-2296

APPLICATION FOR THE CONSTRUCTION OF WASTEWATER COLLECTION AND CONVEYANCE SYSTEMS

Application must be complete, typewritten or clearly printed

Date Application Submitted

PROJECT INFORMATION										
Project Name and Location/ Addr Eagles Nest Senior 26633 Zion Church	Care F	acility								
Milton DE 19968	rioda									
Tax Parcel Number(s) 235-8.00-35.06										
County Watershed (www.dnrec.delaware.gov/swc/wa/Pages/WatershedAssessment.aspx)										
☐ Kent ☐ New Castle ☒ Su	ıssex	☐ Chesapeake Bay 🏻	DE Bay/Estuary	☐ Inland Ba	nys/Atl Ocean					
Sewer District or Interceptor		Wastewater Treatment/D			-					
N/A		Beaver Creek R	egional WWTF	:						
Anticipated Construction Start Da OCTOBER 2024	te	Treatment/Disposal Facility Owner and Operating Permit Number Artesian Wastewater Management Inc. 359014-06								
Please note, construction perm	its expire	e three (3) years from the	date of permit issu	iance.						
Are you requesting plan review	v and cor	mment or WPCC Constr	uction Permit issua	ce? (circle	one)					
Design Flow (gallons/day)			Peak Factor		Basis of Design					
Average 89202 All Peak		34512	3.75		accumulated EDUs					
Phases	ا ا	04012	EDUS							
Description										
	Local Wastewater collection system initially for the senior care facility, church and school, wastewater pumping station and force main.									
		OWNER/DI	EVELOPER							
Company Name Eagles Nes	st Fello	owship Church Inc.	, i							
Mailing Address 26633 Zion C	hurch	Road								
City Milton			State Zip		19968					
Contact Name Pastor John Hoenan										
E-Mail Address PastorJohn	E-Mail Address PastorJohn@eaglesnest.CH									
Telephone 302 684 3149		Cell		Fax						

			ENG	SINEER	e sult				
	Pennoni Associates, Inc.								
Mailing Address	'2 Davidson [Orive							
City Milton				State DE		Zip 19968			
Contact Name Alan	Decktor			I					
E-Mail Address adeck	ktor@pennoni	i.com							
Telephone 302 684	8030	Cell			Fax				
			SEWE	ER INFORMATIO	ON				
Ownership ☑ Public ☐ Private	Type of Sewer Sy ☐ Residential		stem Commercial Industrial Other?			If Other, list below Senior Care Facility			
Type of Pipe C900 PVC SDR 26	Length (ft) 2,420+/-			Joint Specification Push -on		Slope (ft/ft) .0028	Min. Velocity (ft/sec)		
Minimum Pipe Cover (ft) Number of M 5.0+/- 13		anholes	Drop manholes provided? ☑ Yes □ No		Maximum Distance Between Manholes (ft) 400				
vertical separation from we	Minimum ten foot (10') horizontal & eighteen inch (18") vertical separation from water lines maintained? 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.)									
Comments									

		I	PUMP/LI	FT STA	ΛT	ION INFORM	LATIO	N			
Ownership	Type of V	ater				If Other	, list belov	v			
🛚 Public 🗆 Private	☐ Resid	ential	ĭ Comm	nercial [Industrial 🗆 (Other?				
Pump Station Flows (gallons/day) Design Average 89202 334512				Peak 334512				Peak Factor 3.75			
Basis of Design		Pump Type									
Accumulated ED		_	Submersible								
			res attached? Cycle Time (minutes)			Wet Well Detention Time (minutes)					
X Yes □ No		⊠ 7	es □ No)		10 min				7.14	
Check valves provided on d	ischarge lin	e?			1	Gate valves pro	vided on	discharg	e line?		
¥ Yes □ No						¥ Yes □ No					
If not, explain alternate prod	cedure:										
Ventilation provided in wet	well?	Dry V	Well?		Т	Is an alarm syst	em inclu	ded?	Alternate	e source of power?	
ĭ Yes □ No		□Y	es 💢 No	o X Yes □ No				Yes Yes	□ No		
What other provisions for ea	on	peratio		a D ad				l n : .:	T (0)		
Height of Influent Above Pump (suction head) (ft) Height of Efflu (discharge head											
Pump Design Point Pump Operating		rating l	Point	Static Head (ft) Total F		Head (ft)		Required Motor Horsepower (hp) 6.5			
		9 11	FOR	CE MA	IN	INFORMAT	TON	1			
Type of Pipe					Т	Length (ft)			Diameter (in)		
C900 PVC SDR	18					5642			6 inch		
Hazen-Williams "C" Design	n Type o	f Joint	5		1	Velocity Under		Minimum Pipe Cover (m Pipe Cover (ft)	
Factor 150	Pus	n on		Conditions (ft/sec) 2.5			sec)	4 ft			
Air relief valves specified?	Clean-	outs pr	ovided?		†	Maximum distance between clean-outs (ft)					
Yes □ No	☐ Yes	X N	o			41					
Minimum ten foot (10') hor (18") vertical separation fro	If not, ex	xpl	lain provisions t	o prevent	cross-co	ntaminatio	on:				
¥ Yes □ No											
Comments											
				131,72							
g g											



Artesian Wastewater Management 🛕 Artesian Utility Development 🛕 Artesian Water Pennsylvania Artesian Water Maryland A Artesian Wastewater Maryland

August 26, 2024

Mr. Alan M. Decktor Pennoni Associates, Inc. 18072 Davidson Drive Milton, DE 19968

RE: Eagles Nest Senior Care Facility Ability to Serve and Plan Approval Letter, Tax Parcel 235-8.00-35.06

With reference to your request concerning Water and Wastewater Service (collectively, "Service") for the proposed Eagles Nest Senior Care Facility project consisting of a 3-story 54,228 s.f. Senior Care Building with service to the existing church and school on Zion Church Road in Broadkill Hundred, Sussex County, Delaware known as Tax Parcel Number 235-8.00-35.06 (the "Property"), please be advised as follows:

Subject to the following conditions, Artesian Water Company, Inc. and Artesian Wastewater Management, Inc. (collectively, "Artesian") is willing and able to provide Service to the Property that meets all applicable State of Delaware, Delaware Department of Natural Resources and Environmental Control, and Sussex County standards. Artesian has existing water and wastewater Certificates of Public Convenience and Necessity ("CPCNs") from the Delaware Public Service Commission.

Based on current conditions and subject to the development entity and Artesian entering Water and Wastewater Service Agreements (collectively, "Agreements") that address the financial and other terms of the provision of Service for the Property, in accordance with Artesian's tariff as approved by the Delaware Public Service Commission, Artesian is willing and able to provide the required Service for this Property. The Agreements shall supersede this letter to the extent any terms of the Agreements conflict with any terms of this letter.

Furthermore, we have reviewed and approved Utility Construction Plans, Pump Station and Offsite Forcemain Plans dated July 18, 2023 last revised August 12, 2024.

This letter shall expire if Agreements are not executed within one year of the date of this letter.

Yours very truly.

Katherine E. Garrison

Katherine E. Garrison Senior Planning Designer

PLANNING & ZONING COMMISSION

ROBERT C. WHEATLEY, CHAIRMAN
KIM HOEY STEVENSON, VICE-CHAIRMAN
R. KELLER HOPKINS
J. BRUCE MEARS
HOLLY J. WINGATE



Sussex County

DELAWARE
sussexcountyde.gov
302-855-7878 T
302-854-5079 F
JAMIE WHITEHOUSE, AICP, MRTPI
DIRECTOR OF PLANNING & ZONING

November 18, 2022

Alan M. Decktor, PE, ENV SP Pennoni and Associates, Inc. 18072 Davidson Drive Milton, DE 19968

By email to: ADecktor@Pennoni.com

RE: Notice of Decision Letter for the Preliminary Site Plan for Eagles Nest Senior Care Facility located on the west side of Coastal Highway (Route 1) and the east side of Shalom Trail approximately 0.5 miles north of the intersection Coastal Highway (Route 1) and Broadkill Road (Route 16).

Tax Parcels: 235-8.00-35.06

Dear Mr. Decktor,

At their meeting of Thursday, November 17th, 2022 the Sussex County Planning & Zoning Commission granted approval of the Revised Preliminary Site Plan for Eagles Nest Senior Care Facility on the Lands of Eagles Nest Fellowship Church Inc. with final approval to be granted by staff upon receipt of all agency approvals. Additionally, final approval by staff is contingent upon the Applicant providing the Planning & Zoning Department with the following:

- 1. Clarification and specificity to be included on the Plan regarding the utility and access easement for the benefit of the adjacent campground on Parcel 35.03. Please indicate this access easement as well as notation of a shared maintenance agreement for the easement on the plan.
- 2. Documentation from DNREC confirming that any proposed sewer and water service improvements or septic relocations do not restrict or compromise the provision of current or future water or wastewater removal at the adjacent campground on Parcel 35.03 (Lands of Sammons Property Management LLC.)

The 9.50 acre +/- site currently hosts a campground, a recreational building, and a pool which are proposed to be removed. The plan proposes the construction of a 94,570 square foot assisted living facility, parking, a landscaped buffer, and associated improvements on approximately (4.9) acres of the (9.5) acre parcel.

Approval letters or letters of no objection from the following agencies shall be submitted to the Sussex County Planning and Zoning Office:

- a. Delaware Department of Transportation (DelDOT)
- b. Sussex Conservation District



COUNTY ADMINISTRATIVE OFFICES 2 THE CIRCLE | PO BOX 417 GEORGETOWN, DELAWARE 19947 November 18, 2022 Notice of Decision Letter Eagles Nest Senior Care Facility Preliminary Site Plan

Page 2

- c. State Fire Marshal
- d. DNREC Confirmation that utility service (water, wastewater) will not be compromised at the campground on adjacent Parcel 35.03.

The Revised Preliminary Site Plan has been reviewed by staff. Once all agency approvals have been submitted, please submit a minimum of three (3) signed and sealed paper copies of a Final Site Plan to the Planning and Zoning Office for review and approval by staff. Please note that the Owner's signatures are required on the Final Site Plan.

Once approved, the Planning Office will retain two (2) copies of the Final Site Plan and any remaining copies will be returned to the applicant and shall be submitted as part of any Building Permit application process. Additional copies of the plan may be submitted for endorsement by staff.

Please note that the Final Site Plan shall be valid for a period of five years from the date of approval (11/17/2022) by the County. Any such Final Site Plan shall be rendered null and void if substantial construction is not actively and continuously underway on the use within five years of the date of approval by the County.

Please feel free to contact me with any question from 8:30 AM – 4:30 PM, Monday through Friday, at 302-855-7878.

Sincerely,

Michael Lowrey Planner III

CC: Andy Wright, Chief Code Official – Building Code Jordan Dickerson, Planning Technician IV - Engineering John Ashman, Director of Utility Planning - Engineering Jennifer Norwood, Manager - Planning & Zoning

Eagles Nest Senior Care Facility, Milton, DE

Introduction

Eagles Nest Senior Care Facility is a 110 unit located on Zion Church Road, Milton Delaware. The property is identified by Tax parcel 235-8.00-35.06 totaling 9.50 acres The site is adjacent to the Eagles Nest Fellowship Church and School.

The Church and School are currently serviced by onsite septic system. The pumping station capacity has been designed to include the Senior Care Facility, the School and Church as well as an allowance for additional vacant property owned by the church totaling some 58.4 acres, being developed in the future.

Sewer Collection System

The sewer collection system and disposal system will be public and will be managed, operated and maintained by Artesian Wastewater Management Inc. Sewer pipe will be PVC SDR 26. Manholes will be precast concrete.

Sewer Conveyance and Disposal System

Average daily flow for the 110-bed facility is computed at 22,84 gallons per day using an equivalent EDU of 240 gpd plus collection system infiltration of 250 gallons per mile per inch. Allowing for future flow f the average daily flow is estimated at 89,000 gpd. Using the Artesian 1-hour peak factor of 3.75, the pump station design flow is computed at 232 gallons per minute. The pumps are designed to meet the design flow with the largest pump out of service. The collection system is capable of storing approximately 16 hours of sewage computed using the average daily flow rate without any sewer overflows.

The force main will be installed using C900 PVC SDR 18 -Green pipe. High points will include air release valves 'The force main will generally follow Zion Church Road public right of way running south easterly then turning east along Route 16 crossing Route 1 then turning south in an easement and terminating as a manhole in Sweet Gum Lane in the Woodfield Preserve Community. Wastewater is treated at the Beaver Creek Wastewater Treatment Facility.

The wastewater pumping station will include a 8-foot diameter wet well with dual Flygt 6.5 HP motors submersible pumps with N series non clog impellors, above ground valve enclosure housing check valves, gate valves, flow meter, air release valve and bypass connection to the force main. Electrical cabinet houses VFDs, pump controller, and panel boards for lights, heaters and ancillary items requiring power, ventilation blowers and back-up generator panels and disconnects.

Pumps will operate in the traditional method of alternating pump starts to lead and lagg motors with each cycle. Controls will include variable frequency drives (VFD) and will include redundant flow monitoring systems consisting of a primary pressure transducer and back up float switch. Wet well ventilation will utilize continuous operation forced air with a minimum of 12 wet well volume air changes per hour. Remote station monitoring will employ SCADA for monitoring power, motors, flow, and pump operation including high and low wetwell level alarms.

Back up electrical power will be provided by 25 KW diesel generator with automatic transfer switch (ATS), capable of operating the entire pumping station in the event of the loss of primary power.

The station will include an 8-foot diamond mesh security fence with vinyl plastic insert privacy strips with sliding gate and selected screening landscaping.



	Septemb	per 5th, 2024				101			
RCVD FROM	The Poil	nte at Prime Hoo	k LLC			\$825.00			
	Eight Hu	ındred twenty-fi	ve dollars	DOLLARS					
FOR	Plan rev	Plan review fee WPCC 3074/24 Eagles Nest Senior Care Facility							
ACCT	\$	825.00	х	CHECK #	1020	1011			
PAYMENT	\$	825.00		CASH					
	\$	-		OTHER	BY	Kevin Bronson			

DNREC, Commercial & Government Services Section, 89 Kings Hwy, Dover, DE 19901

RECEIPT

		Septeml	per 5th, 2024					102	
	RCVD FROM	The Poi	nte at Prime H	look	LLC			\$300.00	
		Three H	undred Dollar	red Dollars and 00/100 DOLLARS					
1	FOR	WPCC L	WPCC Legal Notice Reimbursement 3074/24						
ı									
ı	ACCT	\$	300.00		х	CHECK#	1021		
	PAYMENT	\$	300.00			CASH			
		\$	-			OTHER	BY	Kevin Bronson	

DNREC, Commercial & Government Services Section, 89 Kings Hwy, Dover, DE 19901