Pender County Planning and Community Development

Planning Division 805 S. Walker Street PO Box 1519 Burgaw, NC 28425



Phone: 910-259-1202 Fax: 910-259-1295 www.pendercountync.gov

Pluris Hampstead Wastewater Treatment Facility Plant Expansion Major Site Development Plan

Case Number: SDP 2024-387

Application Type: Major Site Development Plan

Applicant: Pluris Hampstead, LLC

Owner: Pluris Hampstead, LLC

Location: 9795 Sidbury Road

Property ID #(s): 3271-17-1644-0000

Description: Pluris Hampstead, LLC, applicant and owner, has submitted a major site development plan to expand the existing Pluris Hampstead Wastewater Treatment Facility.

Current Zoning: PD, Planned Development

Technical Review Committee Meeting May 2, 2024

Board of County Commissioners/Planning Board Meeting N/A

Included: Application & Site Plan

SDP 2024-387

Application

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Major Site Development Plan Submission

Applications will be considered for the Technical Review Committee hearing and reviewed by Staff only when deemed complete. The application will be regarded as incomplete until the following items are received by the Planning and Community Development Staff.

07/12709/7002000	G2225100 - 2012 • 191	-
1.	ileh	Pre-submittal Meeting Date of Meeting
2.	bu	Signed Application
2. 3.	Im	Payment
5.		\$250
4.	en	Paper Plan Sets
4.	<u> </u>	Two (2) 24 x 36, Four (4) 11 x 17
5.	ML	Digital Submission
5.	Visit	For all documents submitted in paper copy, bring a digital copy with paper
		submission. Some ULA GAMIL
6.	Vy	Adjacent Property List
0.		A list of names and addresses, as obtained from the county tax listings and tax
		abstract, to the owners of all properties located within 500-feet of the
	A	perimeter of the project bounds.
7.	pul	Adjacent Property Envelopes
	×(The applicant shall provide a set of business envelopes addressed to each of the
		owners of all properties located within 500-feet of the perimeter of the project
		bounds and accompanied with the amount of postage required for first class
		postage.
8.	my	Permits
		Include any permits issued on the project including but not limited to:
	A 2 1	environmental, traffic, utility, or site specific conditions.
9.	ten	Site Plan Requirements
		A prepared site plan in accordance with the Unified Development Ordinance
		standards Section 6.3, Pender County Collector Street Plan, Pender County
		Transportation Plan, other approved State of Federal Transportation
		Improvement Plan, or any other adopted plan in Pender County.
		(See Major Site Development Checklist)

I certify that all information presented in this application is accurate to the best of my knowledge.

Signature of Applicant

Date

Printed Name

MILLADER CLARADTRS

Staff Initials: Date:

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MAJOR AND MINOR SITE DEVELOPMENT APPLICATION

		THIS	SECTION	FOR OFFICE	USE	1		
Date: Permit Number: Permi		Permit F	ee: Invoice Numbe		er:		53.C	
*Zoning Approval ON	LY: YES / N	0	Final Zor	ning Complian	ce Approved: YE	S / N	0 / N/A	
Type of Site Developr	ment Plan:	🗆 Major		Minor		12-10-15 #		
SECTION 1: GENE	RAL INFO	RMATION				_	· · · · · · · · · · · · · · · · · · ·	
Applicant's Name:	PLUR	islympsi	SAD,L	(C Name:	ty Owner's	5	AME	
Applicant's Address:		5×257	,	Propert Addres	ty Owner's s:		AME	
City, State, & Zip	HAM	PSTEAD	NIC 234	943	ate, & Zip			
Phone Number:		-22034		Phone	Number:			
Email Address:	mgalla	rda Rpuzi	SUSA.C	Email A	ddress:			
Legal relationship landowner:	of applican	t to	ME					
SECTION 2: PROD	JECT INFO	RMATION						
PIN (Property Id #):	3271-	17-1644	-0000	Total prop	erty acreage:		28.77	
Zoning:	PD	2.4 IV		-	be disturbed:		3.6	
Water Provider:	PRIVA	TE WELL		Wastewate	er Provider:		PLURIS	
Directions to Site:					FT GN			
	THEN	RIGHT	CN	HOGHN	STRAK(Gr	ZAUEL)	
	PROBER	277 15 1	MILE	5 FROM	SIDBORY	RC).	
Lot Size:		Sq Ft o	of Buildi	ng: 3500			eight: 236	
Setbacks Fron	t: 94	l.	Side:	3731	Re	ar:	850+	
NAICS Code/Use: 221326								
Business Name: PLURIS HAMPSTEND, 11-C								
Describe activities to be EX PAWSION OF WASTEWATER PLANT								
undertaken on project site:								
Ownership: ☆ Private	Number o	of Employees	8	Number of	Members:		Seating Capacity:	

*If the applicant is not the owner of the property, a notarized letter from the property owner may be required

*Zoning approval is for the use being proposed ONLY, other department approvals may be required i.e. Fire Marshal, Environmental Health, Permitting, etc...

SECTION 4: ADDITIONA	L COMMENTS		
THIS APPLICAT.	IGN 15 FOR AN STXPANSION GI	ETHE PL	LURIS
HAMPSTEAD WW	TF. SEE ATTACHED CONSTLLE	TTER.	
6 fit is the sector is a			
SECTION 5: SIGNATURE			
Applicant's Signature	SAME AS OWNER	Date:	
Applicant's Name Printed		Date:	
Owner's Signature	ANALINA WAALA	Date:	2/26/2024
Owner's Name Printed	Maurice W. Gallarda, PE	Date:	2/26/2024
Planning Staff:		Date:	

SDP 2024-387

Site Plan

ΔΡΡΙΙΓΔΝΙΤ/ΟΙΜΝΕΦ	PILIRIS HAMPSTEAD U.C.		
APPLICANT/OWNER:	PLURIS HAMPSTEAD, LLC PO BOX 297 HAMPSTEAD, NC 28445 (214) 220-3412 MAURICE W. GALLARDA, PE	REQUIRED PERMITS:	ZONING / NPDES/N SOIL ERO LOW DEN
	MANAGING MEMBER MGALLARDA@PLURISUSA.COM	BUILDING SETBACKS	PER PLAN
	MICHAEL C. GALLANT, PE	BUILDINGS TO BE CONSTRUCTED	PROPOSE
	MICHAEL C. GALLANT, PE, PA PO BOX 4039 SURF CITY, NC 28445 (910) 448-1046		1840 SF, PROPOSE 1 STORY
NCPLS OF RECORD:	GALLANTMC@YAHOO.COM MICHAEL UNDERWOOD AND ASSOCIATES 102 CINEMA DRIVE, SUITE C WILMINGTON, NC 28403 910-815-0650	BRIEF PROJECT DESCRIPTION	THIS PRO 500,000 SAME TR THIS PLAI BASINS A
DATUM:	NAD 83 NC STATE PLANE		THIS EXP. CAPACIT
		PROJECT START DATE:	APRIL 20
EXISTING USE:	WASTEWATER TREATMENT PLANT	TARGET COMPLETION:	FALL OF
PROPOSED USE:	WASTEWATER TREATMENT PLANT		
<i>PROPERTY PIN</i> PROPERTY ADDRESS <i>ZONING</i>	3271-17-1644-0000 9795 Hogans Trail, Hampstead, NC 28443 PD		
NAICS CODE DEED REFERENCE:	221320 4099/91		
LATTITUDE AND LONGITUDE:	LATTITUDE: 34° 20' 34.70" LONGITUDE: -77° 46' 16.59"		
TOTAL PROJECT PROPERTY AREA:	28.77 ACRES		
TOTAL AREA TO BE DISTURBED:	3.6 ACRES		
TOTAL AREA IN USCOE WETLANDS:	0 ACRES		
WETLANDS TO BE DISTURBED:	0 ACRES		
TOTAL AREA IN SURFACE WATERS:			
RECEIVING STREAM INFORMATION:	INDEX: 18-74-27 (ISLAND CREEK) CLASSIFICATION C:SW		
FLOOD ZONE	FIRM PANEL 3271 Effective date: 2/16/07 (3270327100J)		
STORMWATER PROJECT DENSITY:	LOW DENSITY (>24% BUA) EX PERMIT SW8 140715		
FIRE DISTRIC AND MISC:	TOPSAIL TOWNSHIP/ SCOTTS HILL FIRE DISTRICT THIS PROPERTY IS NOT IN A VOLUNTARY AG DISTRICT (VAD) THIS PROPERTY DO NOT CONTAIN ANY AREAS ON THE NATIONAL REGISTER OF HISTORIC PLACES THIS PROPERTY DOES NOT FALL WITHIN A FLIGHT PATH OVERLAY AREA		
I	NOTE: THERE ARE NO SURFACE WATE REGULATORY FLOOD ZONES OR PROT BUFFERS ON THE PLANT SITE.		

PENDER COUNTY ARGE PERMIT (MOD NC0089524)-NCDEQ SEDIMENT CONTROL - NCDEQ-DEMLR M WATER PLAN (MOD SW8 140715) - NCDEQ-DEML

DL BUILDING FOR NEW PLANT

NICS BUILDING

OSES THE CONSTRUCTION OF A WAST TREATMENT PLANT ON THE E EXISTING PLURIS HAMPSTEAD WWTF. FILIZE THE EXISTING HIGH RATE INFILTRATION GAL INFRASTRUCTURE THAT THE EXISTING PLANT USI ILL BRING THE TOTAL TREATMENT ACILITY TO 1,000,000 GALLONS PER DAY.

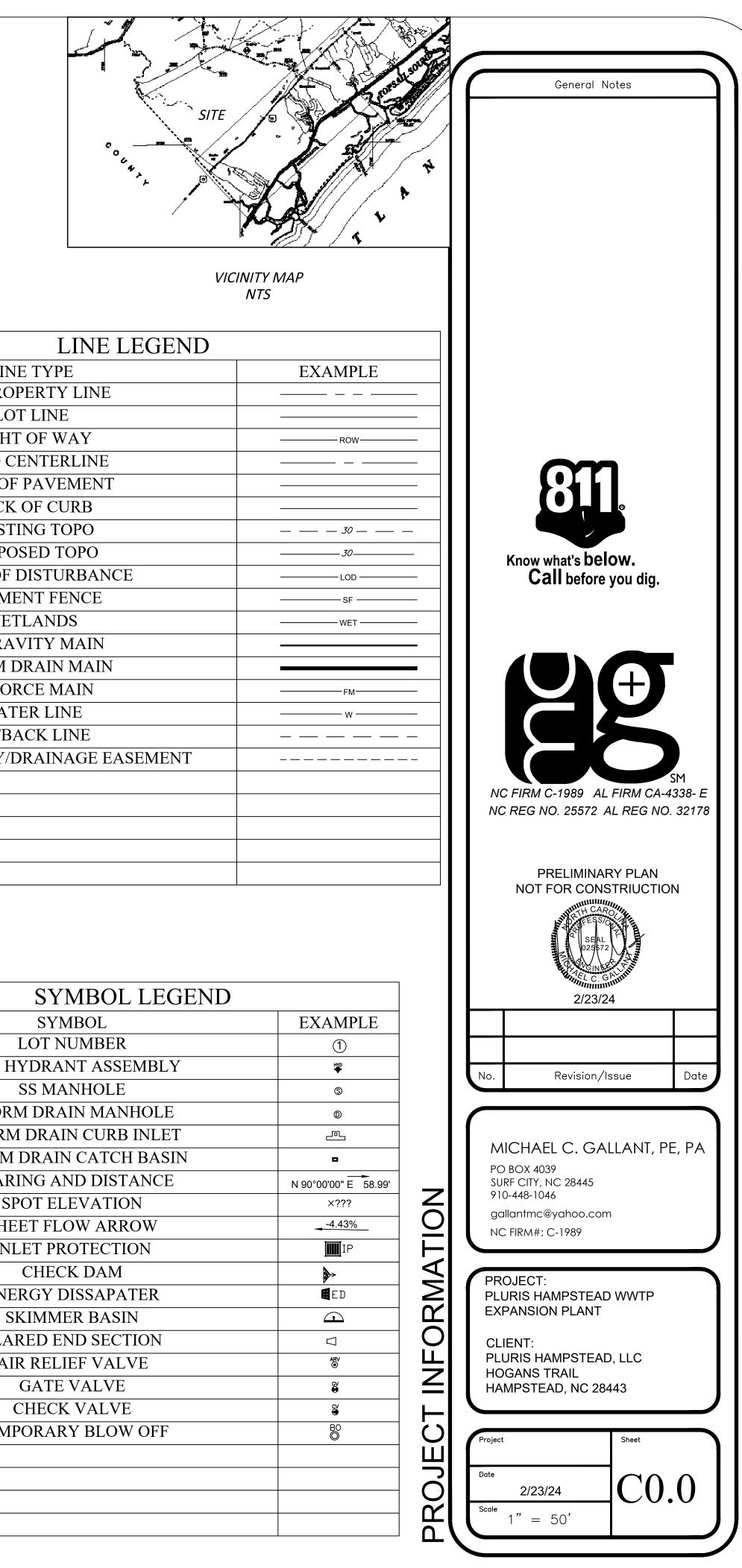
PLURIS HAMPSTEAD WWTF PLANT EXPANSION HAMPSTEAD, NC

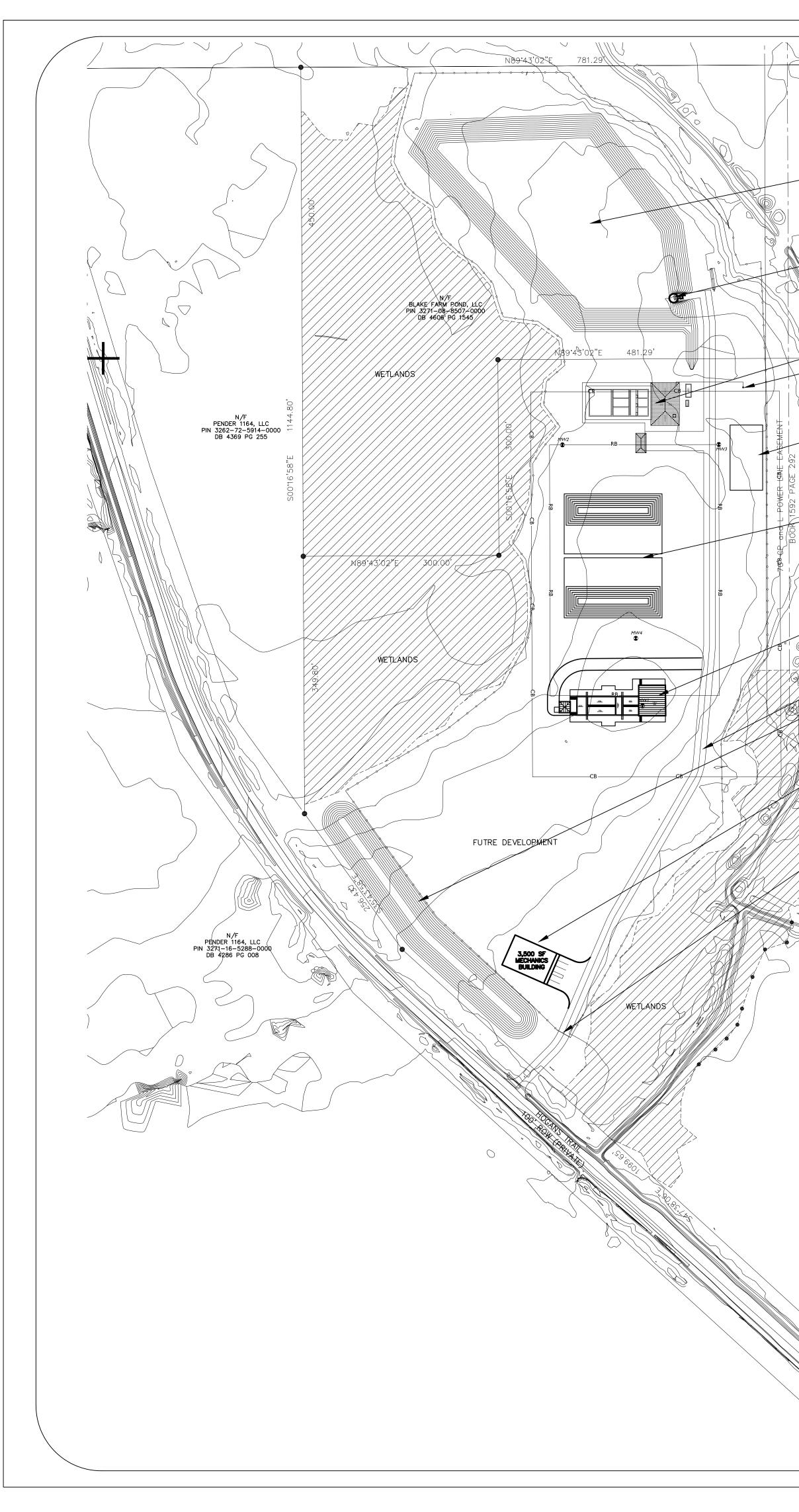
PENDER COUNTY

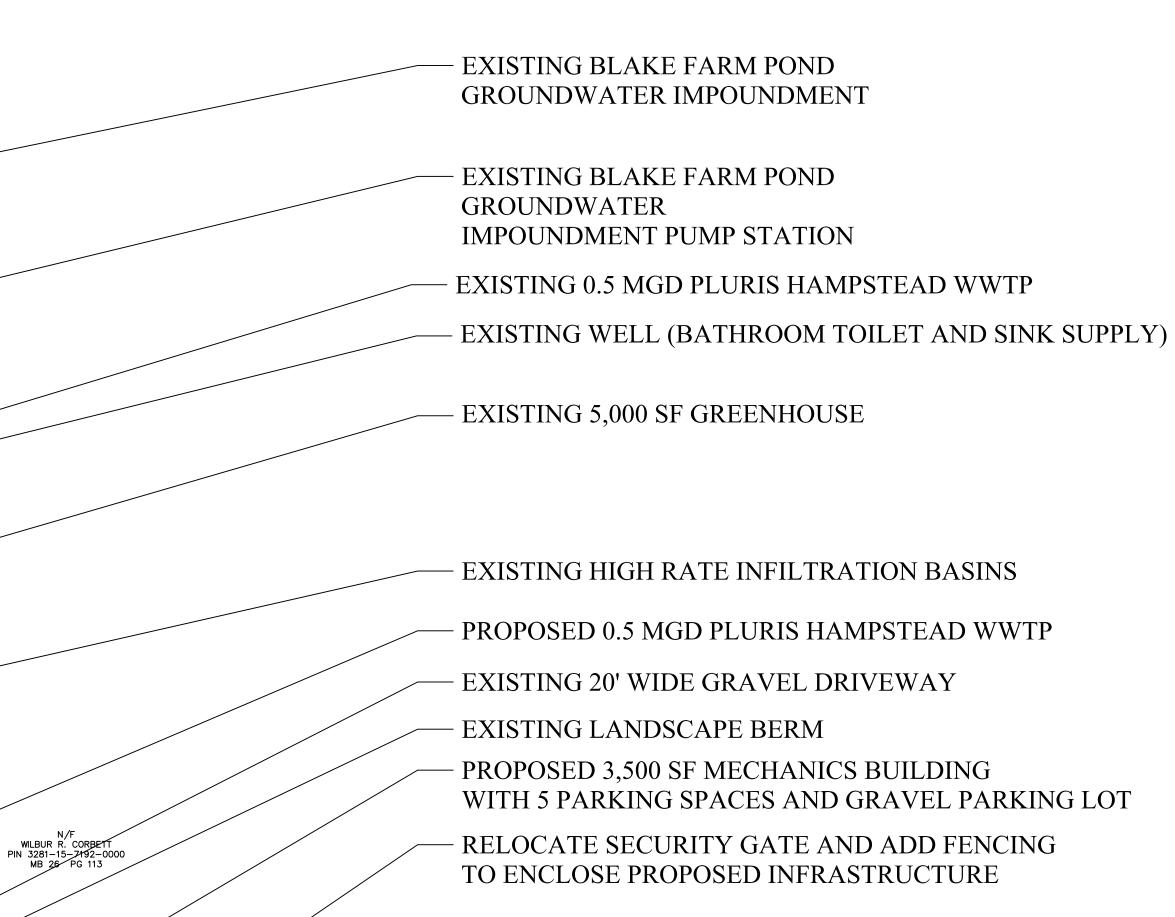
Sheet	Sheet List Table
Number	Sheet Title
C0.0	MCG STANDARDS COVER SHEET - C1.0 COVER PAGE
C1.0	MCG PLURIS HAMPSTEAD PROJECT MASTER - PROCESS FLOW DIAGRAM
C1.1	HYDR PROFILE
C1.2	HYDR PROFILE
C1.3	Equipment Spread Sheet
C1.4	Equipment Spread Sheet
C2.0	OVERALL SP
C2.1	PLANT SP
C2.2	GRADING PLAN
C2.3	YARD PIPING
C2.4	PROFILE 1
C2.5	PROFILE 2
C2.6	PROFILE 3
C2.7	PROFILE 4
C2.8	YARD PIPING DETAILS
C3.0	TANK STRUCTURE PLAN
C3.1	TANK SECTION A
C3.2	REINFORCEMENT DETAILS
C3.3	3.3 CONCRETE NOTES
C3.4	CONTROL BUILDING PLAN
C3.5	CONTROL BUILDING SECTION-TYP WALL
C3.6	CONTROL BUILDING ELEVATIONS
C4.0	FINE SCREENS
C4.1	FINE SCREENS
C4.2	FINE SCREENS
C5.0	IR-FF RAS
C5.1	IR-FF RAS SA
C6.0	PRE AERATION PLAN
C6.1	PRE AERATION SECT
C7.0	MBR PLAN
C7.1	MBR SECTIONS
C8.0	WW LIFT STATION
C9.0	WAS-RESCREEN
C10.0	PROCESS CONTROL
C11.0	NCG01 PAGES
C11.1	SEEDING CHART AND EC STANDARD DETAILS
APP 1	APPENDIX 1 ENVIROMIX

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N/F PENDER 1164, LLC PIN 3271-16-5288-0000 DB 4286 PG 008

Pender County Planning and Zoning Project Narrative Project Name: Pluris Hampstead WWTF Expansion Owner: Pluris Hampstead, LLC

Project Description:

The purpose of this project is to increase sanitary sewer service capacity to the greater Hampstead area. This project proposes the addition of a 0.5 MGD Membrane Bioreactor Wastewater Treatment Plant and a 3,500 square foot Mechanics building with associated access drives and parking areas.

1,840 sf Wastewater Plant Control Building Front = 450 ft, Rear = 500 ft, Side = 230 ft

3,500 sf Mechanics Building Front = 94 ft, Rear = 850+ ft, Side = 373 ft

Both proposed buildings are to be 1 story, less than 30 feet tall. The Mechanics building will have five parking spaces (1 handicap accessible) and a gravel parking lot.

The site was originally developed with a landscape berm that will remain in place. This berm was planted with the appropriate required trees when originally developed.

The area to be disturbed has a handful of pine trees, none of which meet the criteria for significant trees as outlined in the Pender County ordinances. The applicant will most likely remove no more than four of these existing trees. No significant trees will be impacted.

The applicant has an existing low density stormwater permit which will be modified to include the additional built upon area. Ăn erosion control permit will also be required. These permits will be applied for within the next 30 days.

The applicant has already submitted applications and associated documentation to NCDEQ to expand the plant and the disposal capacity.

Copies of the stormwater and current NCDEQ Wastewater permits are attached.

No part of this development lies in a flood zone and no wetlands will be disturbed during this project.

This project seeks to increase the total treatment and disposal capacity of the plant to 1 MGD. This is well within the 3 MGD limit set in the original Special Use Permit.

MONITORING WELL DATA

MW1 (ABANDONED AND REPLACED BY MW4) TOP OF CASING ELE. 45.94 WATER LEVEL 10 FT BELOW TOP OF CASING

MW 2 TOP OF CASING ELE. 43.59 WATER LEVEL 6 FT BELOW TOP OF CASING

MW3

TOP OF CASING ELE. 44.37 WATER LEVEL 9 FT BELOW TOP OF CASING

DATA FROM SIGNED AND SEALED SURVEY BY MICHAEL UNDERWOOD AND ASSOCIATES, PA DATED FEB 16

DATUM NAD 83 (1986) (PUBLISHED) WATER LEVELS TAKEN FROM WELL LOGS

MW 4

TOP OF CASING 4' ABOVE GRADE WATER LEVEL 10 FEET BELOW GRADE DATA FROM INSTALLATION RECORD

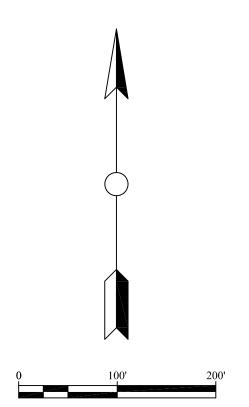
FUTRE DEVELOPMENT

PLURIS HAMPSTEAD, LLC 28.77 ACRES PIN 3271-17-1644-0000 DB 4519 PG 319

WETLANDS

The set backs for the proposed buildings are as follows:

The existing six—foot—high security fence will be relocated and added to so that the infrastructure is within a fenced area. The security gate will be moved toward the front of the property.



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