Engineer's Report for Water Main Extensions

Date:

Project Name:

Water System Name: West Carteret Water Corporation

Water System ID: NC 0416040

County of Project: Carteret

Prepared by:

I attest that this engineer's report has been prepared by me, or under my responsible charge, and is accurate, complete and consistent with the information supplied in the engineering calculations. I further attest that the proposed design has been prepared in accordance with 15A NCAC 18C. Although page 4 of this report incorporates data provided by others, inclusion of these materials under my seal signifies that I have reviewed this material and have judged it to be consistent with the proposed design.

Revised 07/2021 1

Water Main Extension Engineer's Report Mandatory Information

To present data required by 15A NCAC 18C .0307(b)
Specific citations from 15A NCAC 18C are provided when data is required to confirm compliance with another regulation.

Applicant .	Information
-------------	-------------

Applicant name (must be a person): Lisa Sn	nith-Perri		
Applicant mailing address: 4102 Highway 24	4 Newport, NC 28570		
Applicant phone numbers: Business 252-39.	3-1515		
Applicant e-mail address: lisa.smithperri@v	vewe.biz		
Description of Proposed Project	t		
Name of proposed project: Ocean Spray Dri	ve Water Main Extension		
Provide a summary of the diameter, length a	nd material of all piping proposed in the project.		
Diameter of piping	Length of piping	Material	
Location of project: (use existing road and in	ntersections, address if available; and identify municipality).		
The proposed project is an expansion of the	existing public water system. $X Yes \square No$		
The source of water for the proposed project	will be provided by a separately owned public water system	. □ Yes X No	
Is the project phased?	\square Yes \square No		
If yes, delineate all phases in plan sheets. Pa	artial final approvals may be granted to completed phases spo	ecified in this submittal.	
adequate peak demand (domestic peak dema	m does or does not provide fire flow; provide calculations to nd) at the minimum required residual pressure of 30 pounds demand plus fire flow) at the minimum pressure of 20 psig the	per square inch gauge (psig) or ca	an provide
Check here if project is a water main repl (Water main replacement consists of like s no added fire demand.)	acement with no additional demands. size, no additional service connections, and no additional	hydrants and If box checked to page 4	l, proceed

2 Revised 07/2021

Provide anticipated project flows for any project that will increase demands

Does the proposed project include any in-ground irrigation?	□ Yes □ No
If yes, attach appropriate analysis to address how the system is designed to accommodate the impact of irrigation use on treated water supply, storage needs and system pressure.	
Peak demand of the proposed project	gpm
Maximum daily demand of the proposed project	gpd
Per Rule .0901, are the water mains and water system designed to carry fire protection flows for this project?	□ Yes X No
If the water mains and water system <u>are not</u> designed to provide fire protection flow, indicate the minimum <i>calculated</i> pressure at domestic peak demand (non-fire flow). The pressure must be at least 30 psig per Rule .0901.	psig
If the water mains and water system <u>are</u> designed to provide fire protection flow, indicate the minimum calculated pressure at peak demand (domestic plus fire flow). Pressure must be at least 20 psig per Rule .0901.	N/Apsig
The project will add services to the West Carteret Water System. The peak demand for West Caper equivalent customer. They flushing device that is provided as a part of this project will be used for flushing only and is not	-
gpm: gallons per minute	
gpd: gallons per day	
psig: pounds per square inch gauge	

Revised 07/2021 3

Water System-Supplied Information

Data provided by:	Michelle S. Clements, PE	Date provided:	5/9/2022	
1		•	•	

Position: WCWC System Engineer

Number of current connections in water system	7726 connections
Approved number of connections in water system	7726 connections
Current average and maximum daily demand of existing system. Average day demand is the one day average demand for the latest calendar year.	1,189,000 average gpd 1,822,000 maximum gpd
Current maximum daily treated water supply of existing system Maximum daily treated water supply is the maximum quantity of treated water that can be produced and/or purchased by the system.	2,550,000 maximum mgd
Total elevated storage capacity of existing system	2.1 million gallons
Total storage volume is at least half the average annual daily demand (Rule .0805(c))	X Yes □ No

WCWC 2022 1