III. Pump Station and Force Main Technical Information February 8, 2022

A. Pump Station:

NOTE: Any proposed pump stations that are planned to become the responsibility of the Town of Avon / Avon Water Pollution Control Authority will require significant review by the Town. It is likely that the Town will utilize a consultant to perform a detailed review of pump station specifics. Such a review will be at the expense of the Developer

1.	Des	sign capacity of proposed pump station	
2.	Nu	mber of pumps in the proposed pump station:	
3.	Tel	emetry compatible with the Town of Avon SCADA YES NO	
4.	Pump specifications:		
	a)	Number of pumps:	
	b)	Type of pump:	
	c)	Pump capacity:	
	d)	Total Dynamic Head:	
	e)	Diameter of Suction Line:	
	f)	Provisions for wet well mixing to remove all solids and grease in wastewater?	
	g)	Even flow distribution of wastewater to pumps? YES NO	
	h)	Is force main "holding time" excessive, thereby causing an odor issue? YESNO	
	i)	Odor control measures considered? YESNO	
	j)	Pump shut off(s) is available and/or lock out tag out considered? YES NO	
	k)	Wet well vent(s) made of corrosion proof materials with carbon filter? YES NO	
	1)	Has a pump station O&M agreement been submitted for Town approval? YES NO	
	m)	Have appropriate valves been incorporated i.e., gate, check and air vent valves (air release, vacuum break, air/vacuum etc.)? YES NO	
	n)	Pumps can be removed without dewatering or manually disconnecting any piping in the well? YES NO	
	o)	Pump Station includes a crane system to lift pumps? YES NO	
	p)	Pumps, motors, and other mechanical and electrical equipment can be easily removed without entering the wet well? YESNO	
	q)	Pumps are capable of passing a three (3) inch sphere? YES NO	
	r)	Pumps are submersible? YES NO	
	s)	Electrical equipment and controls located in enclosed areas meets National Electrical Code for hazardous conditions? YESNO	
	t)	Pumps automatically alternate? YES NO	
	u)	Shut-off valves are located on discharge lines of each pump between the pump and the valve? YES NO	
	v)	Check valves are located on discharge lines of each pump? YES NO	
	w)	Valving is located in a separate pit? YES NO	
	X)	A vent has been provided, 3 feet above proposed surrounding grade, to accommodate for snow accumulation? YES	
	y)	Wet well floor has a minimum slope of I to I to the pump inlets? YES NO	
	Z)	Is the pump station protected from high groundwater? YESNO	
		1.If yes, cathodic protection has been provided? YESNO	
		2. If yes, buoyancy forces have been incorporated into the design and copies of calculations have been	
-		provided? YESNO	
5.	Has	s an emergency generator been included in the design? YES NO	
6.	Wh	at are the specifics of the emergency generator proposed?	
		Manufacturer	
		Model number	
		KW Taung	
		Fuel storage/provisions	
Fore	e Ma	ain:	

1.	Diameter of force main:
2.	Length of force main:
3.	Force main material:
4.	Calculated velocity in force main (ft/sec):
5.	Hydrostatic Pressure testing is specified for all pipe? YES NO
6.	Air relief valves are positioned at the high points in the force main? YES NO
7.	Force main joint restraint is provided? YES NO
8.	Force main terminates in the receiving manhole with piped drop? YESNO
9.	Proposed Profile of force main provided? YESNO

Professional Engineer's Certification:

I certify that all the information provided in this engineering report form is correct and no significant information necessary for a proper evaluation of the project has been intentionally omitted:

Signature of Professional Engineer: _____ Date: _____

Name of Professional Engineer:

State of Connecticut Professional Engineer No:

Phone No.: (_____)_____

Affix P.E. Stamp and Seal