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Date: 4/6/2015	VHB Project No.: 29011.00
Re: Silo Ridge Field Club	

To: Pedro Torres

 Silo Ridge Ventures, LLC

 4988 NY-22

 Amenia, New York 12501

We are sending you: Attached Under Separate cover via Email the following items:
 Shop drawings Prints Plans DVDs Specifications Copy of Letter ChgOd
 Other

Copies	Date	No.	Description
1	April 2015	Change # 6	Water & Sewer Demand Calculations

These are transmitted as checked below:

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REMARKS: Equestrian Center and Field House have been removed from demand calculations in Appendices I.1 and I.2.

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By: Amanda DeCesare, PE
Senior Project Manager
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LEGGETTE, BRASHEARS & GRAHAM, INC.

SILO RIDGE RESORT COMMUNITY AMENIA, NEW YORK

Water Demand Calculation – April 2015

Usage Type	Subcategory	Number	Water Usage Rate	Water Demand (gpd)	Water Demand with 20% Reduction (gpd)
Residential*	Total Bedroom Count	993	110 gpd/bedroom	109,230	109,230
Lodge Clubhouse	Restaurant	167 seats	35/seat	5,845	4,676
	Store/Pro Shop	4 employees	15/employee	60	48
Clubhouse/Fitness	Pool	50 swimmers	10/swimmer	500	400
	Health Club	20 patrons	20/patron	400	320
Sales House - General Store		5,000 sq.ft.	0.1/sq. ft.	500	400
Activity Barn	Pool	50 swimmers	10/swimmer	500	400
	Bowling	2 lanes	75/lane	150	120
	Theater	32 seats	5/seat	160	128
Winery Building	Restaurant	80 seats	35/seat	2,800	2,240
	Winery	allowance	2,000	2,000	1,600
Golf Academy		40 students	10/student	400	320
		2 teachers	10/teacher	20	16
Vineyard Villas Club		13 seats	35/seat	455	364
Golf Maintenance Building	Building Size	11,500 sq. ft.	0.1/ sq. ft.	1,150	920
Employees		200 employees	15/employee	3,000	2,400
Comfort Stations	Snack Seating	16 seats	25/seat	400	320
Golf Course	Rounds of Golf	60 rounds	20/round	1,200	960
Total Water Demand (gpd)					124,862
Total Water Demand (gpm)					86.7

sq. ft. square feet

gpd gallons per day

gpm gallons per minute

* 20% reduction not applied to residential water demand component per NYSDEC New York State Design Standards for Intermediate Sized Wastewater Treatment System, March 5, 2014 (2014 Design Standards)

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Projected Wastewater Flow - April 2015
(based on water flow data provided on 9/16/2014)

Usage Type	Subcategory	Unit	Number of Units	Wastewater Flow (gpd/unit)	Wastewater Flow (gpd)	Wastewater Flow with 20% Reduction (gpd)	Peaking Factor	Maximum 24 hour Flow (gpd)	Peaking Factor	Peak Hourly Flow (gpd)
Residential	Total Bedroom Count	Bedroom	993	110	109,230	109,560	3	328,680	3.78	414,137
Lodge Clubhouse	Restaurant	Seats	167	35	5,845	4,676	3	14,028	5.00	23,380
	Store/Pro Shop	Employees	4	15	60	48	3	144	5.00	240
Clubhouse/Fitness	Pool	Swimmers	50	10	500	400	3	1,200	5.00	2,000
	Health Club	Patrons	20	20	400	320	3	960	5.00	1,600
Sales House - General Store		Sq. Ft.	5,000	0.1	500	400	3	1,200	5.00	2,000
Activity Barn	Pool	Swimmers	50	10	500	400	3	1,200	5.00	2,000
	Bowling	Lanes	2	75	150	120	3	360	5.00	600
	Theater	Seats	32	5	160	128	3	384	5.00	640
Winery Building	Restaurant	Seats	80	35	2,800	2,240	3	6,720	5.00	11,200
	Winery	Allowance	1	2,000	2,000	1,600	3	4,800	5.00	8,000
Golf Academy		Students	40	10	400	320	3	960	5.00	1,600
		Teachers	2	10	20	16	3	48	5.00	80
Vineyard Villas Club		Seats	13	35	455	364	3	1,092	5.00	1,820
Golf Maintenance Building	Building Size	Sq. Ft.	11,500	0.1	1,150	920	3	2,760	5.00	4,600
Employees		Employees	200	15	3,000	2,400	3	7,200	5.00	12,000
Comfort Stations	Snack Seating	Seats	16	25	400	320	3	960	5.00	1,600
Golf Course	Rounds of Golf	Round	60	20	1,200	960	3	2,880	5.00	4,800
Total Wastewater Flow (gpd)						125,192		375,576		492,297

sq. ft. square feet
gpd gallons per day
gpm gallons per minute

* 20% reduction not applied to residential water demand component per NYSDEC New York State Design Standards for Intermediate Sized Wastewater Treatment System, March 5, 2014 (2014 Design Standards)

Unit wastewater flows - New York State Design Standards for Intermediate Sized Wastewater Treatment System, March 5, 2014 (2014 Design Standards)

Baswood Corporation

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