

May 10, 2018

Real Estate Equities Development, LLC 1400 Corporate Center Curve, Suite 100 Eagan, MN 55121

RE: Village Cooperative of Centennial – Parking Analysis Study

This Parking Analysis Study (Special Study) is for the proposed Village Cooperative of Centennial project located at the northeast quadrant of E. Arapahoe Road and S. Potomac Street in Centennial, CO. The proposed project consists of approximately 74 dwelling units of Senior Adult Housing (ITE Code 252). Per the *Institute of Transportation Engineers (ITE)* 9th Edition Trip Generation Report, the Village Cooperative of Centennial project is anticipated to generate approximately 255 daily weekday trips, 15 AM total peak hour trips, and 19 total PM peak hour trips. This Parking Analysis Study is a supplement to the *Village Cooperative of Centennial Traffic Impact Study* prepared by Kellar Engineering LLC (KE) dated January 15, 2018.

Per the *Village Cooperative of Centennial Traffic Impact Study* and the ITE 9th Edition, the proposed project is not a large peak hour traffic generator. See Table 1. As shown in Table 1, the peak hour trip generation for the Senior Adult Housing land use (ITE Code 252) is low (5 entering vehicles during the AM weekday peak hour and 10 entering vehicles during the PM weekday peak hour).

Additionally, the Institute of Transportation Engineers (ITE) provides guidance on calculating vehicle parking generation rates for land uses in the *ITE Parking Generation* – 4th Edition. Per the ITE Parking Generation manual, 74 dwelling units of Senior Adult Housing land use (ITE Code 252) occupies approximately 43.66 parking stalls in an average weekday peak period. Additionally, the 85th percentile of this land use results in approximately 48.84 parking stalls being occupied in an average weekday peak period. See Table 2.



Table 1: Trip Generation (ITE Trip Generation, 9th Edition)

ITE Code	Land Use		Average [Daily Trips		AM Peak Hour Trips				PM Peak Hour Trips						
		Size	Rate	Total	Rate	% In	In	% Out	Out	Total	Rate	% In	In	% Out	Out	Total
252	Senior Adult Housing	74 DU	3.44	255	0.2	34%	5	66%	10	15	0.25	54%	10	46%	9	19
	Total			255			5		10	15			10		9	19

DU = Dwelling Units

Table 2: Parking Generation (ITE Parking Generation, 4th Edition)

ITE Code	Land Use		ITE Vehicle P	arking Generation Rates	Total Parking Stalls Occupied in Peak Perio			
		Size	Average	85th Percentile	Average	85th Percentile		
252	Senior Adult Housing	74 DU	0.59	0.66	43.66	48.84		

DU = Dwelling Units

Table 3: Parking Space Counts from other Village Cooperative Locations

Village Cooperative Location	Number of Dwelling Units in Building	Total Number of Surface Parking Spaces Provided	Observed Number of Parking Spaces Being Used	Observed Number of Parking Spaces Being Used								
			4/5/18	4/6/18	4/9/18	4/10/18	4/11/18	4/12/18	4/13/18	4/16/18	4/17/18	4/18/18
Albert Lea, MN	50	23	5	5	3	4	4	3	3	3	5	4
Alexandria, MN	28	14	3	4	4	3	3	3	4	4	4	4
Austin, MN	62	30	3	5	5	4	3	6	3	5	7	5
Fergus Falls, MN	49	26	5	12	3	4	5	8	10	8	4	5
Mason City, IA	50	26	4	5	7	4	6	5	5	6	4	1
Red Wing, MN	44	23	4	N/A	4	7	6	4	N/A	5	5	6
Sioux City, IA	44	19	11	5	12	14	6	9	9	N/A	12	8
Wausau, WI	72	48	13	11	22	12	14	12	8	6	9	9
Marshalltown, IA	50	28	10	6	7	7	6	9	6	5	6	4
Cedar Rapids, IA	65	35	6	6	6	9	7	7	12	11	10	10
Crow Creek, IA	61	35	12	9	14	16	17	18	20	17	13	15
Burlington, IA	35	22	7	13	15	8	10	14	12	11	9	11
Cedar Falls, IA	50	28	10	8	8	7	9	9	9	8	6	9
West Des Moines, IA	55	28	8	7	13	10	10	12	14	13	N/A	N/A
Clinton, IA	44	26	7	4	5	9	11	12	8	8	7	8
Asbury, IA	50	26	N/A	6	7	8	7	11	4	7	3	3
Shawnee, KS	53	21	12	13	12	13	19	9	11	12	11	18
Lees Summit, MO	50	33	13	11	13	11	12	12	12	13	12	12
Lenexa, KS	52	31	16	14	16	14	15	15	15	16	15	15
Fort Collins, CO	52	36	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A



Parking space counts were also provided by the project team from 19 other active Village Cooperative locations (the Fort Collins, CO building is not yet occupied). Parking space counts were conducted between 10:00 AM – 10:30 AM in the applicable time zone. This information is provided in Table 3. The parking space counts show that none of the other 19 existing Village Cooperative locations require more than 48 parking spaces and all of these existing locations show counts of empty parking spaces observed during the 10 days of recent parking space counts.

Therefore, based upon the data in Table 1, Table 2, and Table 3; and the traffic characteristics associated with the project and associated land use, Kellar Engineering has no objections to the proposed Village Cooperative of Centennial project developing with 121 on-site parking spaces. The proposed 121 parking spaces will be adequate to handle the average on-site peak parking demand for the proposed project.

Please do not hesitate to contact me if you have any questions or need anything further at (970) 219-1602 or skellar@kellarengineering.com.

Respectfully,

Kellar Engineering LLC



May 10, 2018 Sean Kellar, PE, PTOE Colorado PE #38650

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Managed Properties:

Open, Maintenance

James Arbaugh, Maintenance (Occ) Vanessa Morris, Housekeeping

515 Jefferson St., Alexandria, MN 56308 Village Cooperative of Alexandria Alexandria@reedevelopment.com Calvin Anderson, MSM 320.219.7592 Todd Olson, Maint & Housekeeping Hours: 9-1 (M-F) Regional Manager: Tim Anders 2201 Stevens St., Albert Lea, MN 56007 Village Cooperative of Albert Lea Holly Jackson, MSM 507.373.3039 507.383.7932 AlbertLea@reedevelopment.com Jackie Werner, Maintenance Hours: 9-2 (M-F) Regional Manager: Tim Anders Donna Werner, Maintenance (Occ) Robert Kamish, Maintenance (Occ) Cedar Valley Svcs, Housekeeping Village Cooperative of Ames 2525 Bobcat Drive, Ames, IA 50014 Ames@reedevelopment.com Open, MSM 515.292.4849 Hours: 8-12 (M-F) Kirstie Martin, MSM (Tmp) Regional Manager: Mark Anderson Kevin Shaw, Maintenance Lisa Booms, Housekeeping 5297 Grand Meadow Dr., Asbury, IA 52002 Village Cooperative of Asbury Asbury@reedevelopment.com Jeanne Conley, MSM 563.582.2544 Peter Marshall, Maintenance Hours: 8-12:30 (M-F) Regional Manager: Mark Anderson Michael Brooks, Maintenance (Occ) Gina Lary, Housekeeping 2301 10th St NW, Austin, MN 55912 Village Cooperative of Austin Norma Beard, MSM 507.433.1310 Austin@reedevelopment.com Donald Munden, Maintenance Hours: 9-4 (M-F) Regional Manager: Tim Anders Cedar Valley Sycs, Housekeeping 1431 Cambridge Drive, Burlington, IA 52601 Village Cooperative of Burlington Hannah Parrott, MSM 319.752-4457 Burlington@reedevelopment.com Hours: 8-12 (M-F) Matt Schuler, Maintenance Regional Manager: Mark Anderson Joanne Vogelgesang, Housekeeping Village Cooperative of Cedar Falls 914 Bluegrass Circle, Cedar Falls, IA 50613 Holly Karr, MSM 319.277.1533 CedarFalls@reedevelopment.com Joe Jennings, Maintenance Hours: 8-12 (M-F) Regional Manager: Mark Anderson Pam Caley, Housekeeping Village Cooperative of Cedar Rapids 1230 English Lane NE, Cedar Rapids, IA 52402 Val Stueber, MSM 319.294.6563 319.651.1530 CedarRapids@reedevelopment.com Julie Squires, Maintenance Hours: 8-1 (M-F) Regional Manager: Mark Anderson Doreen Cook, Housekeeping 1160 14th Ave NW, Clinton, IA 52732 Village Cooperative of Clinton Gene Beinke, MSM 563.219.8656 Clinton@reedevelopment.com Dave Willis, Maintenance Hours: 8-12 (M-F) Regional Manager: Mark Anderson Caleb Hirl. Maintenance (Occ) Jill Swanson, Housekeeping Village Cooperative of Crow Creek 4700 Village Dr., Davenport, IA 52807 CrowCreek@reedevelopment.com Brittany Berrie, MSM 563.355.4044 C: 563.449.2879 Hours: 8:30-2:30 (M-F) Regional Manager: Mark Anderson James Dixon, Maintenance Royce Young-Monson, Housekeeping Village Cooperative of Fergus Falls 1124 Village Cir., Fergus Falls, MN 56537 FergusFalls@reedevelopment.com Jennifer Rogholt, MSM 218.736.7880 Stanley Newton, Maintenance Regional Manager: Tim Anders Hours: 8-3:30 (M-F) Diane Boese, Housekeeping Village Cooperative of Lee's Summit 801 S. Battery Dr., Lee's Summit, MO 64063 LeesSummit@reedevelopment.com Amy Hernandez, MSM 816.347.1991 C: 319-321-0951 Regional Manager: Jennifer Blake Richard Smith, Maintenance Hours: 8:30-12:30 (M-F) Mike (Don) Eaton, Maintenance (Occ) Amy Rice, Housekeeping 14000 W. 87th St. Pkway, Lenexa, KS 66215 Village Cooperative of Lenexa 785.341.3235 Christine Cady, MSM 913.227.0469 Lenexa@reedevelopment.com

Hours: 8:30-12:30 (M-F)

Regional Manager: Jennifer Blake

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Nicki Hull, Housekeeping