



November 6th, 2023

Building Officials
Pembroke Pines Building Department
601 City Center Way
Pembroke Pines, FL 33025

Re: Heron Pond Condominium
Structural Conditions – Building #1

Dear Building Officials:

Over the last couple of weeks, a representative of ACG Engineering Services, Inc. (ACG), acting on my behalf, has surveyed Building #1 at the Heron Pond Condominium complex. We have attached a copy of Sheet S-3.0, which will be part of our permit set, since it reports our structural survey findings.

A summary of our **findings** is as follows:

- Three of the balconies are shored (#206, #207, and #208) with two additional ones (#201 and #205) appearing to need shoring.
- Signs of water damage were observed in Units #103, #104, #107, #201, #203, and #206.
- There are at least 32 different locations around the building where damage has been visually detected, involving all 16 units.
- Additionally, signs of previous repairs have been noted at 35 other locations around the building.
- There are signs of damage or old repairs visible on all eight (8) balcony stacks.
- There are signs of damage to sections of exterior walls that appear to carry significant second floor and roof loads.
- There are five (5) locations where damage has been observed in sections of the structure that clearly appear to have been previously repaired; in these locations fresh signs of damage are telegraphing through the finishes.
- Based on our limited observations we do not know, with any level of certainty, how many additional conditions may exist that currently remain hidden under floors, above ceilings, and behind walls.

Our findings lead to the following **concerns**:

- The balconies for Units #201 and #205 require shoring.
- The signs of water damage observed in Units #101, #103, #104, #201, #203, and #206 may reflect sections of weakened structure.
- Damage sustained by the exterior structural components, in the form of water-related wood deterioration, is clearly significant; the likelihood of water-related damage extending into the building's interior is considerable, but at the present time does not appear to pose a safety concern for persons or property.
- Most of the balcony stack structures, including joists, beams, walls, and columns, appear to have sustained at least some past or present structural damage. Thus, we recommend that the balconies should be shored and that all access should be prohibited.



- Some of the apparently compromised sections of exterior wall may carry considerable 2nd floor and/or roof loads, but do not appear to pose a safety concern for persons or property at the present time.

Based on our concerns, we **recommend** the following:

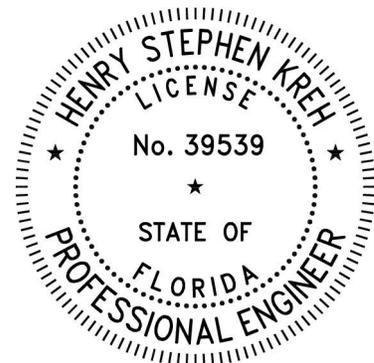
- The balconies for Units #201 and #205 shall be shored as other balconies in need of shoring have been shored.
- All access to all balconies (both levels) should be prohibited until repairs have been made.
- All balcony ceilings should be removed to allow for visual observations of the second floor and roof structures.
- All second-floor balcony structures should be repaired as required.
- All roof trusses over the second-floor balconies shall be repaired as required.
- Damage that extends into the building's interior must be identified and repaired upon discovery.
- Areas where signs of water damage or leaks have been noted shall be exposed and repaired as required.
- Wall bulges, cracks, and delaminations must be removed and those wall sections repaired in accordance with the loads that they carry.
- Our recommendations provided above will allow for a much better understanding of the actual condition of the building's overall structure. Based on findings from the explorations to be performed, as described directly above, it is possible that individual units may need to be vacated.

The interiors of all of the units in the building, to the best of my knowledge, based on our visual inspection of finishes, are deemed to be safe to inhabit.

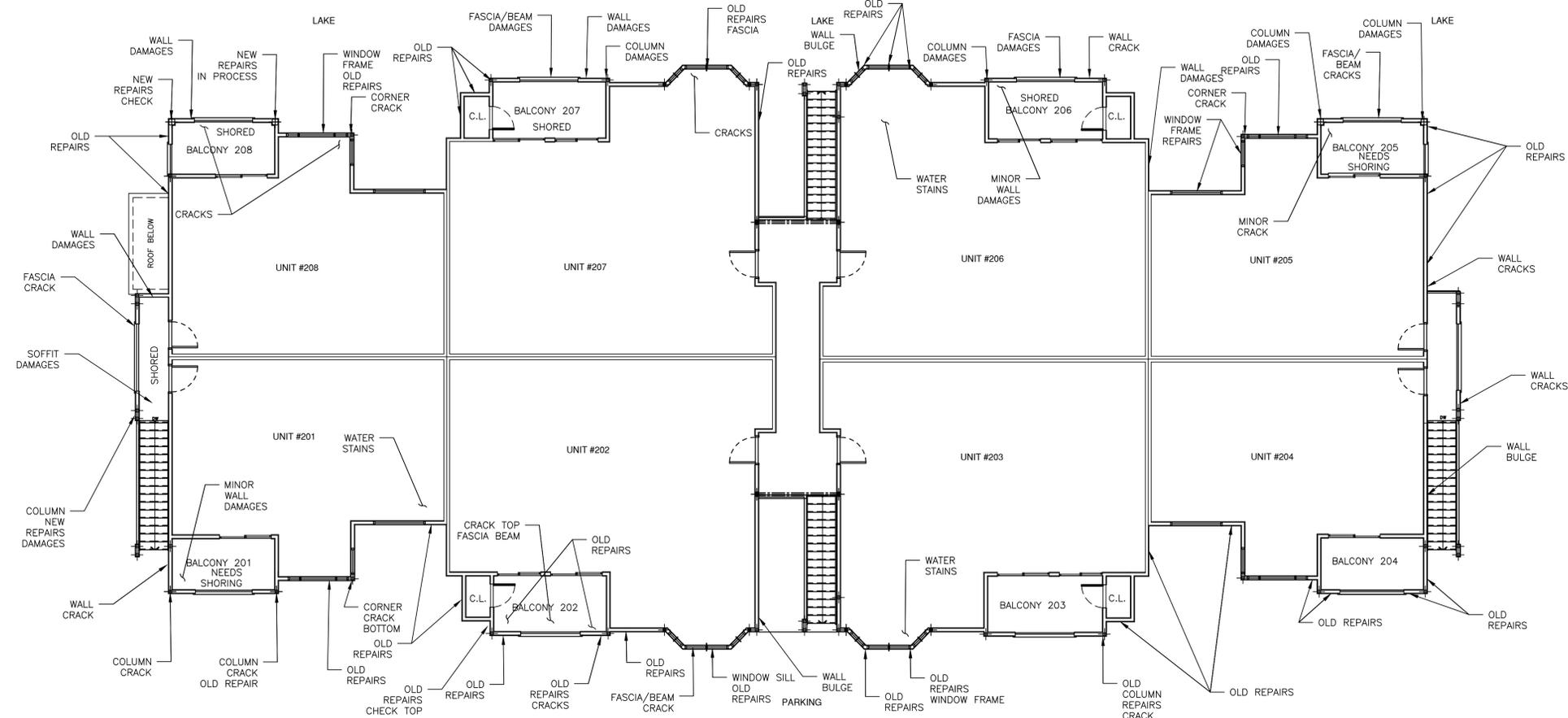
Please do not hesitate to let us know if you have any additional questions, comments, or concerns. Thank you.

Respectfully submitted,

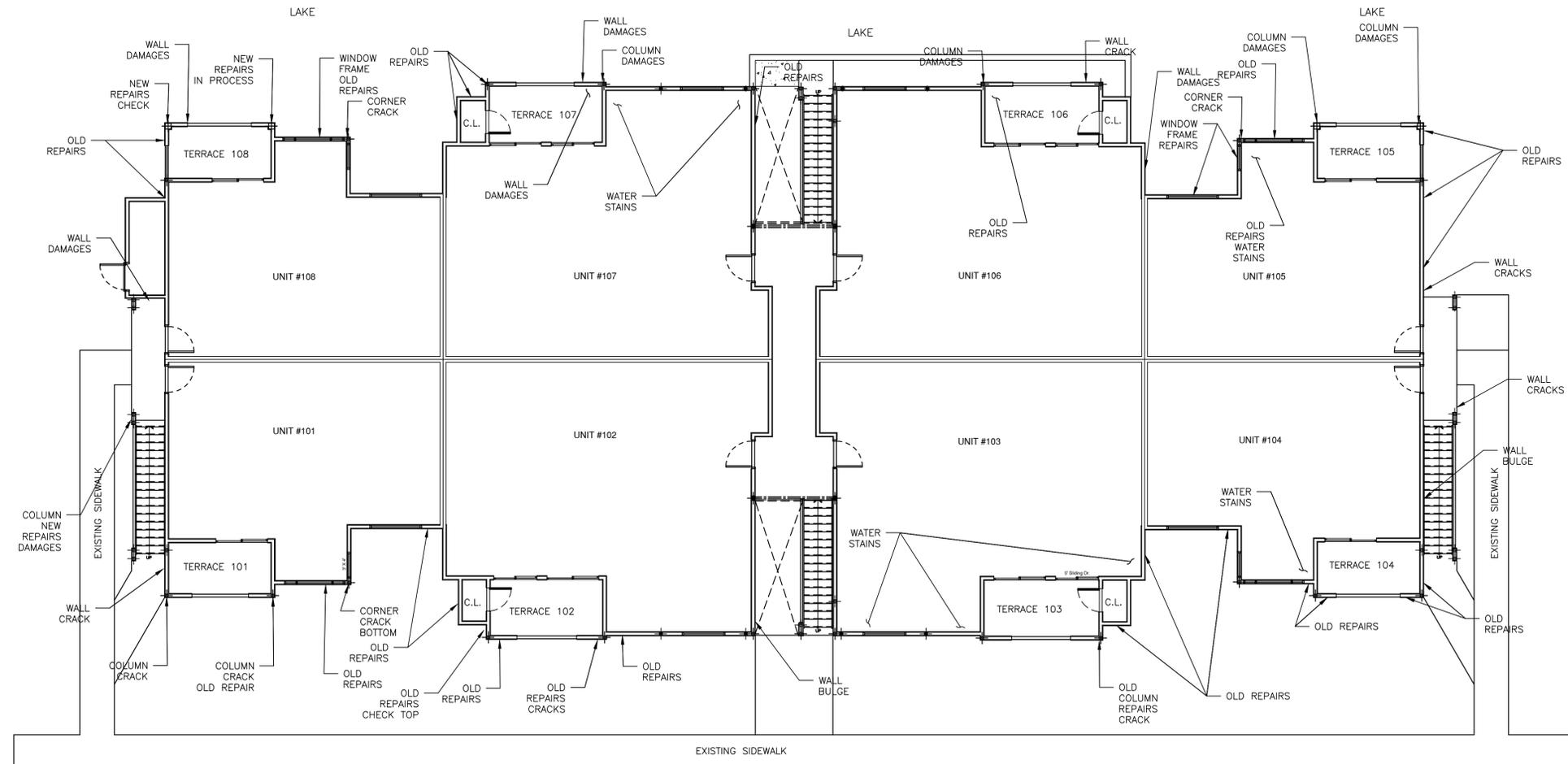
Henry S. Kreh, P.E.
Vice President
ACG Engineering Services, Inc.
FL P.E. No. 39539/FL S.I. No. 736



SECOND FLOOR
BLDG. #1



GROUND FLOOR
BLDG. #1



- NOTES:
 1. DAMAGED AREAS OBSERVED WILL BE INVESTIGATED TO ACCESS THE EXTENT OF THE DAMAGE.
 2. POUR 36"x36"x12" CONCRETE PAD REINFORCED 3-#5 TOP & BOTT. E.W. (TOP OF FOOTING 1' BELOW GROUND.

NOTES:
 ALL LOCATIONS WHERE DAMAGES ARE FOUND WILL BE INVESTIGATED TO ASURE NO UNDERLYING STRUCTURAL DAMAGES.

DATE	DESCRIPTION	REV	PROJECT No.	Y.L.	H.K.	H.K.	DATE
							10/28/23
DRAWN: HENRY S. KREH CHECK: HENRY S. KREH APPROVED: HENRY S. KREH DATE: 10/28/23				HENRY S. KREH LICENSE No. 39539 STATE OF FLORIDA PROFESSIONAL ENGINEER			
HENRY S. KREH FL P.E. #39539							