



April 29, 2022

Mr. Bryan Moll
Director of Construction & Development
TM Crowley & Associates
501 Pennsylvania Parkway, Suite 160
Carmel, Indiana 46280

RE: Final Special Inspection Report
PetSuites Stay & Play – Lee's Summit
250 NW McNary Court
Lee's Summit, Missouri
Report Period: January 1, 2022 to April 23, 2022
Geotechnology, LLC Project No.: J036943.03

Dear Mr. Moll:

This letter with attachments will constitute our Final Special Inspection transmittal for the above referenced project. Representatives of Geotechnology, LLC have provided field observation and testing services for asphaltic concrete during the report period. Geotechnology's services were not requested between December 30, 2021 and April 22, 2022.

Summary of Activities

Asphaltic Concrete

Field density tests were performed in the surface courses of the asphaltic concrete placed within the south and east parking lots and drive areas on April 22. The field density tests results were evaluated based on the Marshall density provided by the asphalt supplier. The field density test results are enclosed.

Final Inspection

To the best of our knowledge, this report covers our final observations of the materials placed during the construction of the proposed building, as specified by the City of Lee's Summit, Missouri. The items monitored included site development, building subgrades, pavement subgrades, structural fill, foundation bearing materials, reinforced concrete, drilled and epoxy-grouted reinforcing steel, drilled and epoxy-grouted anchor bolts, structural masonry, structural steel, and asphaltic concrete. The known discrepancies with the project documents were reported and have been either corrected or the as-built conditions accepted by the project engineer. Our services were provided on a part-time basis as scheduled by representatives of Bear Construction Services. The compliance of any materials or work not observed by our personnel cannot be determined by our firm and is not addressed, or implied, by this or any previous report. In our opinion, the materials observed by our personnel were in general compliance with the project documents or the project engineer's recommendations.

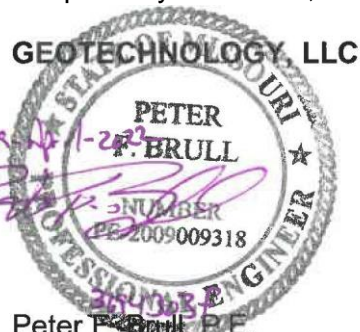
Status of Compliance

The specific items discussed above in this report appeared to be in general compliance with the contract documents except as noted in the Variance/Discrepancy List.

Closure

The results of our field observations and testing were reported to authorized personnel during our site visits. If you have any questions regarding this report, or if we may be of further service, please contact us.

Respectfully submitted,



Peter F. Brull, P.E.
Senior Engineer

Steve Birtz
Project Manager

Attachments: Variance/Discrepancy List
Asphalt Field Density Test Results
GPD Group Letter dated April 29, 2022

cc: Mr. Michael Harkins – City of Lee's Summit
Mr. Andrew Glenski – TM Crowley & Associates
Mr. Alex Kolesar – GPD Group
Mr. Kyle Wake – GPD Group
Mr. Leland Hicks – Bear Construction Services
Mr. Rob Petersen – Bear Construction Services
Geotechnology LLC S.I. File

**Pet Suites Stay & Play – Lee's Summit
Variance/Discrepancy List**

NOTE: Items resolved during the report period are shaded

Variance Number	Date Opened	Date Closed	Description
2	07/27/21	04/29/22	<ul style="list-style-type: none">- Vertical reinforcing steel dowels in the concrete footings were missing for the concrete masonry unit (CMU) walls at the building corners, openings, and construction joints. We understand an RFI will be submitted to the structural engineer requesting instruction for rectifying this discrepancy.- (08/02/21): Drilled and epoxy-grouted vertical reinforcing steel dowels were installed at the above referenced locations per the structural engineer's instructions. The #6 size dowels were installed with an 8-inch embedment and 70-inch projection, 40 inches on-center and at the adjacent cells to the building corners, construction joints, and openings per the project documents. The dowels were secured using Hilti HIT-HY 200-R epoxy. A signed and stamped copy of the RFI with the structural engineer's instructions will be required to resolve this discrepancy.- Per the appended letter referencing the CMU Wall Dowel Repair, the structural engineer accepted the as-built condition. Discrepancy Resolved.
3	09/22/21		<ul style="list-style-type: none">- The floor flatness and levelness measurements were 35.9 and 17.7, respectively. The test results did not comply with the specified values of 45 for flatness and 50 for levelness (Non-SI discrepancy).

Asphalt Density Test Results

Report Date: 04/22/2022

Area Being Filled: Parking lot

Description of Fill Material: APWA Type 3

TABULATION OF FIELD DENSITY TEST RESULTS (ASTM D6938)

Test No.	Test Location	Course	Mix Design	Laboratory Density (pcf)	In Place Density (pcf)	Probe Depth (in)	Percent Compaction	Min./Max. Comp. Spec. (%)	Result
1	20' south, 0' east	Surface	APWA Type 3	147.30	141.50	Asphaltic Concrete	96.0		Pass
2	50' south, 0' east	Surface	APWA Type 3	147.30	141.80	Asphaltic Concrete	96.2		Pass
3	40' south, 50' east	Surface	APWA Type 3	147.30	143.20	Asphaltic Concrete	97.2		Pass
4	30' south, 40' east	Surface	APWA Type 3	147.30	143.20	Asphaltic Concrete	97.2		Pass
5	10' south, 115' east	Surface	APWA Type 3	147.30	143.00	Asphaltic Concrete	97.0		Pass
6	15' south, 100' east	Surface	APWA Type 3	147.30	142.80	Asphaltic Concrete	96.9		Pass
7	50' north, 115' east	Surface	APWA Type 3	147.30	147.80	Asphaltic Concrete	100.3		Pass
8	90' north, 115' east	Surface	APWA Type 3	147.30	146.30	Asphaltic Concrete	99.3		Pass
9	150' north, 150' east	Surface	APWA Type 3	147.30	143.40	Asphaltic Concrete	97.3		Pass
10	30' north, 150' east	Surface	APWA Type 3	147.30	143.80	Asphaltic Concrete	97.6		Pass
11	65' north, 190' east	Surface	APWA Type 3	147.30	143.20	Asphaltic Concrete	97.2		Pass

Remarks: Reference point: Building southwest corner

Geotechnology Representative: Mark E. McIntyre



PetSuites Lee's Summit, MO
2020155.27
2022.04.29

City of Lee's Summit
220 SE Green Street
Lee's Summit, MO 64063

Project: PetSuites – Lee's Summit, MO
Permit No: PRCOM20210427

Re: CMU Wall Dowel Repair Letter

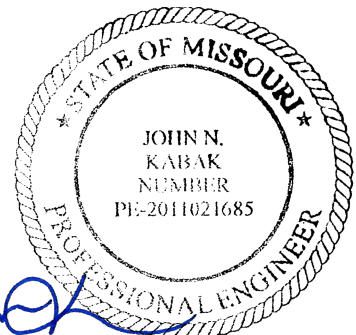
To Whom it may Concern,

It was brought to the attention of GPD Group by Bear Construction Services that the dowels for the CMU wall vertical reinforcing had not been installed into the wall foundation at door jambs, in the adjacent wall corners cells, and on each side of wall vertical expansion joints per the latest set of construction documents dated April 20, 2021. We recommend that the CMU wall dowels be installed into the top of the foundation at the locations indicated in the construction documents using Hilti HIT-HY 200-R adhesive with 8" minimum embedment into the top of the wall footing. Refer to construction document for wall reinforcing lap requirements with vertical wall reinforcing.

Sincerely,

A handwritten signature in black ink, appearing to read "SHC", is written over a light gray grid background.

Stephen H. Cook, PE
Engineer



A handwritten signature in blue ink, appearing to read "John N. Kabak", is written over the professional engineer seal.

John N. Kabak, PE, SE
Structural Department Head