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FBPE #99143

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Executive Summary

Report V1.0

This executive summary statement provides an abbreviated and shortened overview of the key takeaway from the full report and is not intended to convey all details or complexities. It should not be the sole basis for decision making and is only provided as a courtesy for the purpose of clarity. For complete information and thorough analysis, refer to the full report.

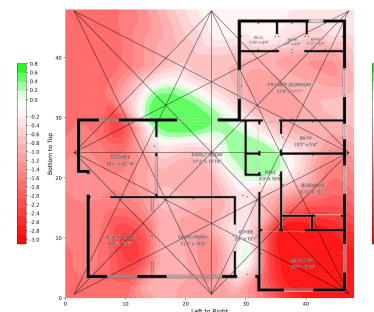
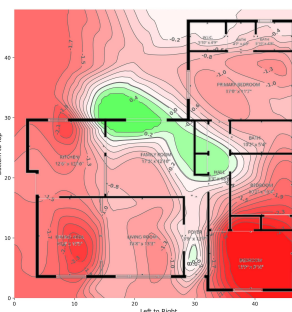
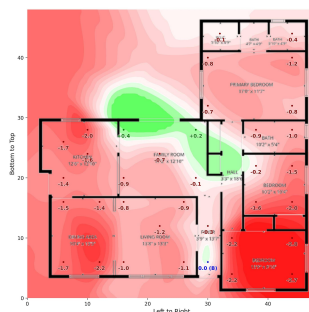
This evaluation indicates clear signs of foundation issues. Calculations were not found to be within industry standard limits. Remedial measures are required to bring the foundation to a more level condition. It is recommended that foundation stabilization be completed as soon as possible, if possible within the next year. In addition, visual deficiencies noted should be resolved after foundation improvements have been completed. We also recommend you perform another house elevation plot after repairs have been completed to memorialize the elevation changes. Due to the nature that foundation work is recommended, it is imperative that you read the entire report in detail for a comprehensive explanation of this conclusion.

It is highly recommended that the client find, review, and comprehend these various colored Figures A, B, C, D located throughout the report, as these figures are instrumental in the development of the conclusions derived.

Figure A

Figure B

Figure C



Engineer's Foundation Evaluation

0.0 - Background and Purpose

On 8/8/2026 a foundation evaluation was performed at the property located at address 5433 Kennerly Rd, Jacksonville, FL, 32207, which consists of a 1540 square-foot single family attached structure built in 1972 (54 years old) with a slab on grade foundation.

As shown in the attached inspection report (Appendix A dated 8/8/2026), a visual condition assessment and elevation plot of the structure's foundation was performed on-site by inspector Anthony Stacy (All In Home Inspections) for the purpose of this desktop engineering evaluation completed by Engineer Philip W. Bullock Jr., M.E., M.B.A., P.E. (FL) (Noble Engineering Services, LLC (FL)). This letter is written to document and memorialize the findings of both the field inspection and desktop evaluation focused on providing a clear performance analysis for the client.

The purpose of this evaluation is to investigate and determine, to the extent possible, the foundation's current condition and any necessary repairs that may be needed immediately and/or in the future (as calculations and predictions allow). This evaluation is considered a Level B evaluation, as defined by the "Guidelines for the Evaluation of Foundation Movement for Residential and Other Low-Rise Buildings" published by the Foundation Performance Association (FPA-SC-13-1). Our evaluation involved collecting data and photographs of the structure to assess its performance and identify any signs of distress. Based on our findings, we will provide recommendations for repairs to ensure the long-term stability and safety of the structure. We understand that foundation issues can be a cause for concern for property owners, and we aim to provide clear and concise information to help you make informed decisions about any repairs needed for your property. The data and photographs presented in this report are intended to provide a representative sample of the types of distress observed throughout the structure, and are not a comprehensive catalog of all the distress present.

Per the #FPA-SC-13-1, Guidelines for the Evaluation of Foundation Movement for Residential and Other Low-Rise Buildings, a Level B Engineering Evaluation includes:

- Section 1: Documenting visual observations made during a physical walkthrough
- Section 2: Observation of factors influencing the performance of the foundation
- Section 3: If possible, an interview of occupants/owners/managers regarding a history of the property and foundation
- Section 4: Review of pertinent info including geotech reports, construction drawings, field reports, and repair docs
- Section 5: Deflection and tilt calculations to assess foundation performance and establish a baseline
- Section 6: Description of factors that affect soil moisture

A Note on Photo Captions: This report, including the inspection report attached, will use photo captions that indicate locations such as right, left, front, and back. These directions refer to how a person standing at the front of the property looking at it would see it. For example, the "front left" would be located on the front left side of the structure, as person would reference if standing at the front of the property looking at the structure.

1.0 - Visual Condition Assessment

This section of the report documents visual observations made during a physical walkthrough for this evaluation. Herein are the discoveries of the visual condition assessment of the foundation aimed at assessing its structural integrity, stability, and performance. The foundation serves as the fundamental support system for any structure, playing a pivotal role in ensuring its longevity and safety. Through industry accepted analysis and examination, this evaluation delves into the key aspects of the foundation's overall condition to provide insights into its current state. By scrutinizing the visual condition assessed factors (such as foundation cracking, unevenness, misaligned doors, windows that won't open, etc.) this portion of the evaluation aims to elucidate any existing visual deficiencies or potential risks that may compromise the stability of the structure. The findings presented herein are crucial for informing decision-making processes regarding necessary repairs, maintenance interventions, or further investigations to uphold the structural reliability and safety of the structure.

The attached inspection report dated 8/8/2026 and completed by Anthony Stacy should be reviewed in detail and should stand as the visual condition documentation of the foundation-related deficiencies discovered at the time of the site-visit inspection.

2.0 - Observation Summary

Below is a table that represents a summary of the observed deficiencies at the property discovered in the field that may be considered to be influencing the performance of the foundation. See attached property inspection report for photos, detailed locations, and other information about these visual deficiencies.

Visual Condition Report Summary Table

<i>Home Inspection Deficiency</i>	<i>Identified?</i>	<i>Severity</i>	<i>Home Inspection Deficiency</i>	<i>Identified?</i>	<i>Severity</i>
<i>Foundation cracks</i>	Not-Present	---	<i>Foundation corner cracks</i>	Not-Present	
<i>Foundation support deficiencies</i>	Not-Present	---	<i>Wood rot and framing deficiencies</i>	Not-Present	---
<i>Exterior wall cracks</i>	Not-Present	---	<i>Interior sheetrock cracks</i>	Not-Present	---
<i>Areas sloping and uneven</i>	Not-Present	---	<i>Cracks patched</i>	Present	Minor / Cosmetic
<i>Exposed rebar or anchors</i>	Not-Present	---	<i>Exposed nails on siding</i>	Not-Present	
<i>Spalling concrete</i>	Not-Present	---	<i>Exposed nails on sheetrock (pop)</i>	Not-Present	
<i>Trees near structure</i>	Not-Present	---	<i>Ceiling sheetrock cracks</i>	Present	Minor / Cosmetic
<i>Trim/cabinets/base separating</i>	Present	Major	<i>Flooring cracks</i>	Not-Present	---
<i>Gutter Deficiencies</i>	Not-Present	---	<i>Flooring separation</i>	Not-Present	
<i>Standing water</i>	Not-Present	---	<i>Tiles loose / cracked or missing</i>	Not-Present	
<i>Door(s) rubs, sticks, or has gaps</i>	Not-Present	---	<i>Spongy feeling and/or squeaks</i>	Not-Present	
<i>Window(s) won't open, latch, or sticks</i>	Not-Present	---	<i>Other non-structural concrete cracks</i>	Present	
<i>Visual discovery of previous foundation work</i>				No	

This engineering statements below provide a general overview of the visual condition assessment findings documented in the home inspection report. The purpose of this section is to acknowledge and generally agree with the inspector's classification of severity for each observed deficiency based on visual indicators. No recommendations are offered here, as this section is limited to contextual confirmation of the reported conditions. A comprehensive recommendation, including consideration of all these observed deficiencies, their severity, patterns of distribution, and any history of prior foundation work, is provided in the conclusion section. That final summary reflects the engineer's overall assessment and any necessary guidance based on the totality of visual evidence.

Trim/cabinets/baseboard separating: We agree with the findings of the inspection report that elevated separation or misalignment of trim, cabinets, or baseboards was observed. Major trim misalignment, including significant separations, warped boards, or detachment from wall or ceiling surfaces, may suggest underlying structural movement, particularly if the affected areas are widespread or worsening. When observed alongside signs such as sloping floors or cracking walls, misaligned trim can be an important secondary indicator of foundation distress. Additional detailed investigation may be warranted depending on the extent and location of the observed issues.

Other non-structural concrete cracks: Based on the inspector's visual observations, the concrete cracking present appears to be non-structural in nature and does not indicate foundation movement or compromise to the structural integrity of the home. The cracking was noted by the inspector; however, no photographic evidence was provided for review. These types of cracks are typically unrelated to the foundation's structural performance, as they often occur in non-monolithic sections that are designed differently, generally thinner and structurally less robust than the main home's foundation elements.

Cracks patched: We agree with the findings of the inspection report that evidence of previously patched crack areas was noted. The repairs appear consistent with routine cosmetic maintenance commonly performed to address minor drywall or surface cracking associated with normal building movement. At the time of the inspection, the repaired areas did not exhibit significant re-cracking, displacement, or other visible indicators of ongoing structural movement, and the patches appeared to remain generally intact.

Ceiling sheetrock cracks: We agree with the findings of the inspection report that hairline or surface-level cracks were observed in the ceiling sheetrock. These types of cracks are typically cosmetic and may result from minor settling of the structure, thermal expansion and contraction of framing materials, or movement along drywall joints. The observed cracking appears limited in width and extent, with no visible signs of significant ceiling deflection, separation, or other indications of structural distress.

3.0 - Interviews

The owner was briefly interviewed as part of this evaluation. The owner has no relevant knowledge of previous defects and/or foundation work that has been performed at the structure.

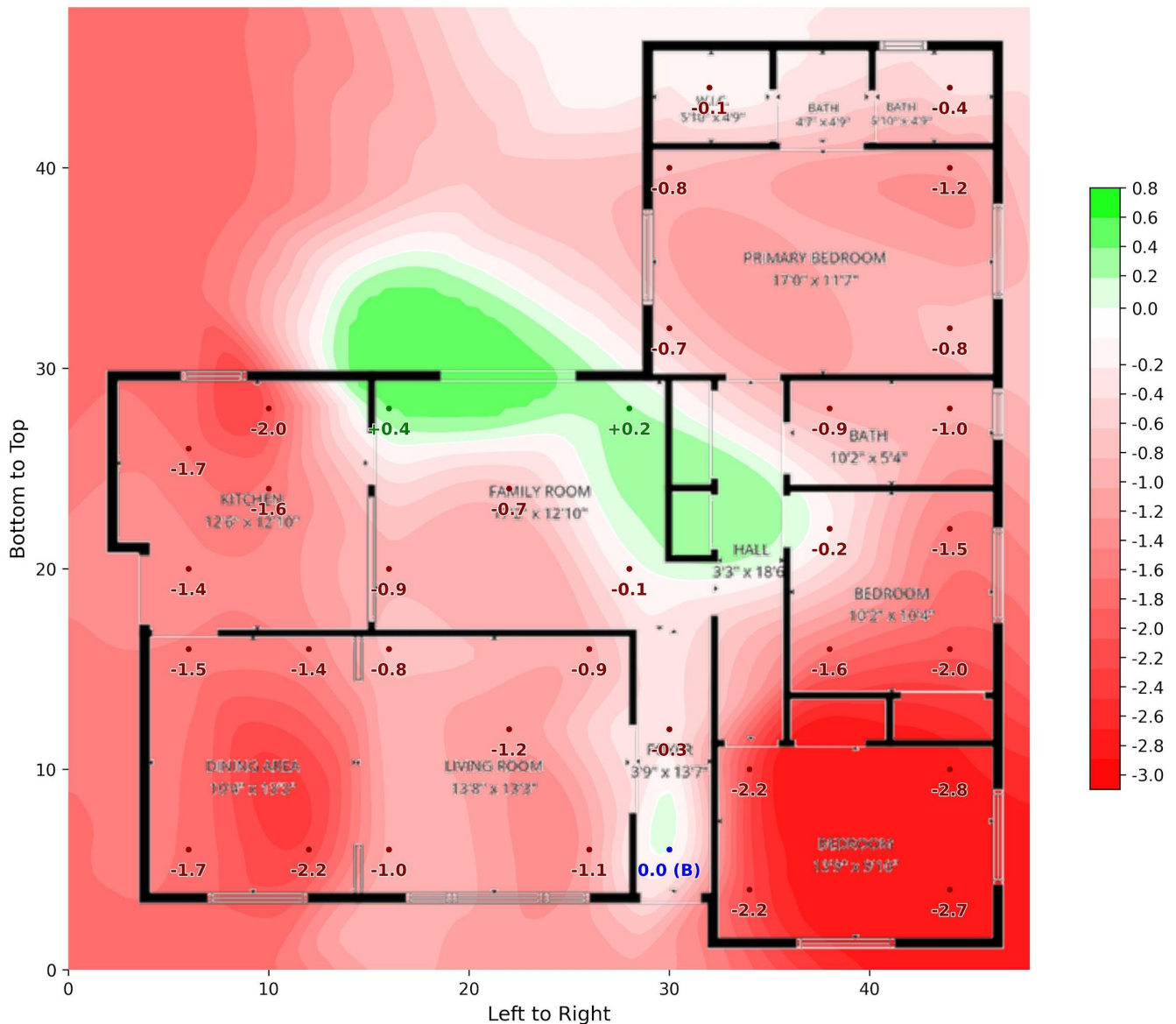
4.0 - Pertinent Documents

No pertinent documents were provided as part of this evaluation; our company has not received any previous foundation reports from the builder, owner, occupant, client and/or agents. It is outside the scope of this evaluation to determine if foundation repairs were permitted/required at a municipal level and to what extent they were documented. It is highly recommended that the client contact any owners/occupants/agents to confirm no relevant documentation of previous defects and/or foundation work that may have been performed on the structure. Obtaining pertinent documentation is important to the overall assessment of the foundation; when none exists the evaluation is limited to existing conditions only.

5.1 - Elevation Plot

To calculate deflection and tilt of the structure, an elevation plot must be performed. An elevation plot determines the relative elevations of the structure comparative to a base elevation of zero (0.0) at a chosen and documented location in the structure. Foundation deficiencies are typically judged based on the following generally accepted criteria:

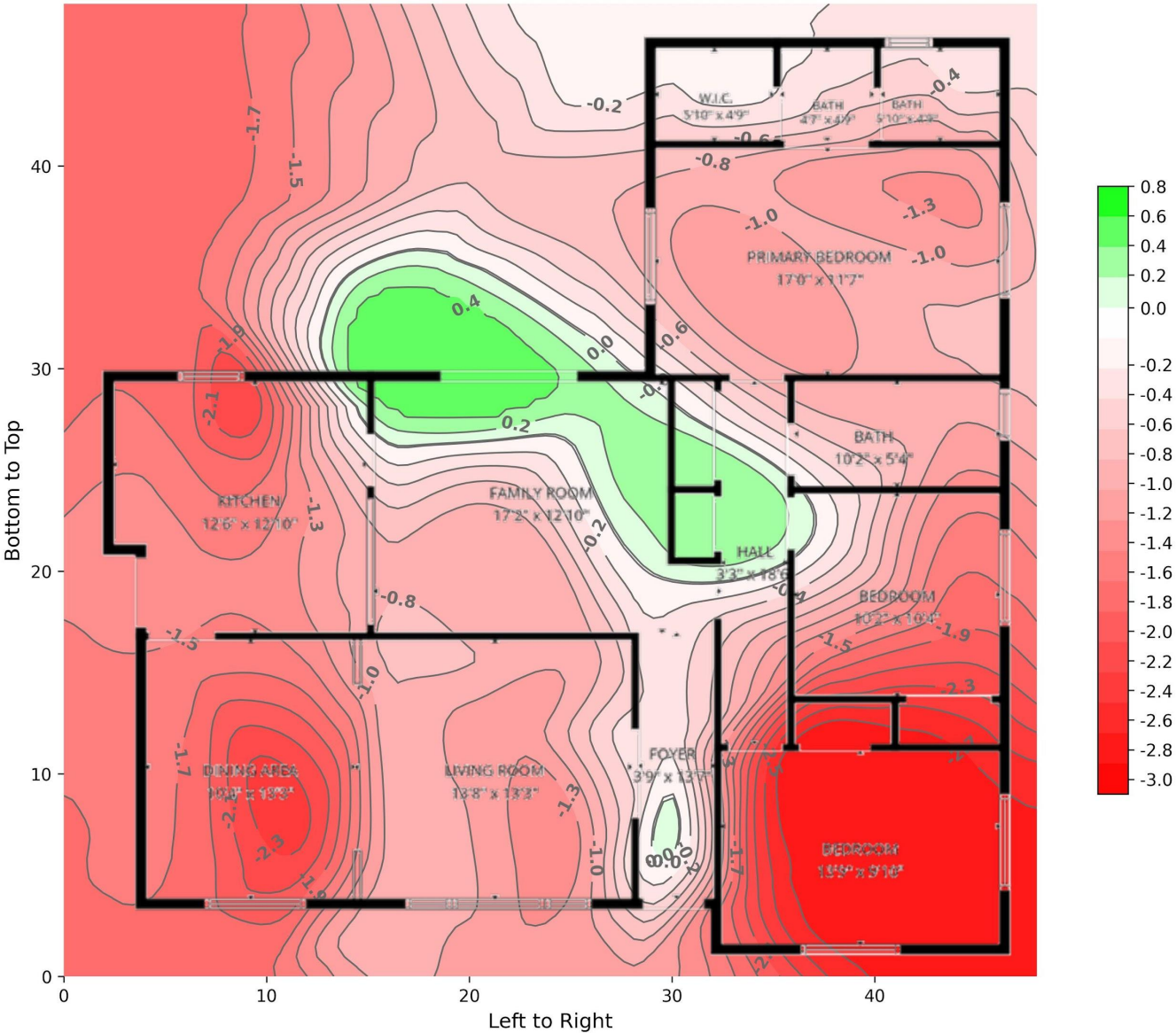
- The elevation deflection across an entire structure should remain within 0.5 to 1-inch depending on the age of the structure. Generally newer structure, should remain less than 0.5 inches or less of deflection across the entire structure. This is subjective depending on other factors (primarily visual condition and age of the structure).
- The elevation deflections measured as the bending of a straight line do not approach the generally accepted criteria for foundation performance and repair of 1.00/360 (1-inch of bend in 30-feet).
- The elevations measured as tilting of a level line across the foundation to not approach the generally accepted criteria for foundation performance (not repair) of 1.00% (2.4-inches of difference across 20-feet).
- The elevations measured as a slope of floors do not approach 2.00% (1.2-inches of difference across 5-feet).



Elevation Plot Graphic (Figure A)

The elevation plot resulted in the graphic as depicted above in Figure A. The red-points and areas are elevation measurements that were lower than the base station elevation (0.0). The green-points and areas are elevation measurements that were higher than the base station elevation (0.0). The blue-points (and white areas) are equal to the base station elevation (0.0). The base station is depicted with a (B) symbol. The elevation plot takes into account differences in flooring thicknesses. The maximum elevation point was determined to be 0.4 inches and the minimum was -2.8 inches, resulting in an elevation difference of 3.2 inches of difference across the structure.

A mesh contour is a graphic that is designed to look and feel like a geographic topography map. Some clients find the graphic useful and some find the graphic confusing and difficult to understand. In general, the client should envision walking the foundation where areas of red are lower than the base station elevation (0.0) and areas of green are higher than the base station elevation (0.0). The darker the color (both red and green) the higher/lower the elevation.



Mesh Contour Graphic (Figure B)

The mesh contours graphic depicted above in Figure B is similar to the elevation plot. The red, green, and white areas depict areas that are lower, higher, and equal to the base station elevation (0.0). The lines or contours (similar to map topography) are labeled at specific intervals.

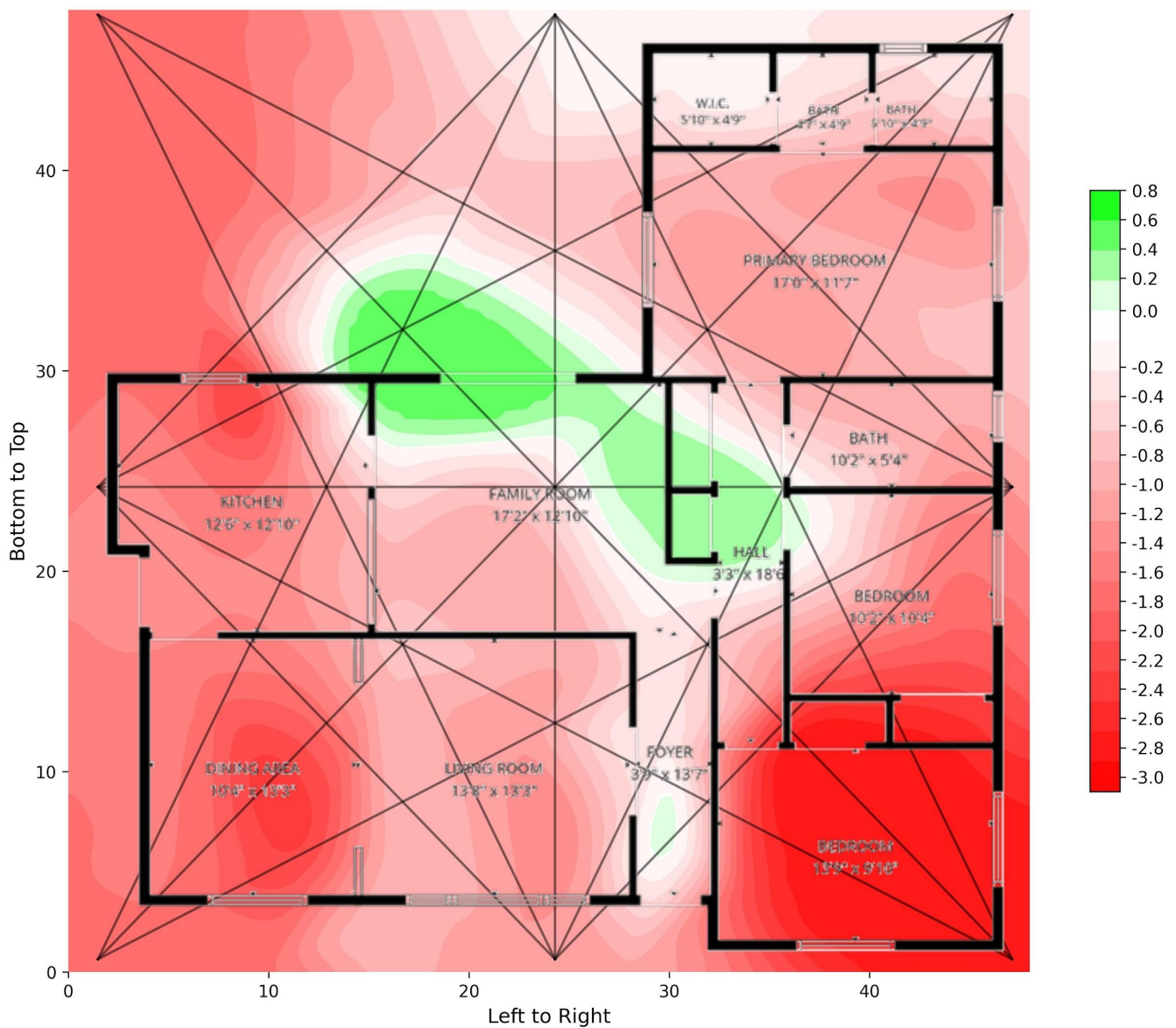
5.2 - Deflection and Tilt Calculations

In a level-B foundation evaluation, deflection and tilt calculations are essential components for assessing the structural integrity and stability of the foundation. Deflection refers to the degree to which a structural element, such as a foundation, bends or deforms under load. It is typically measured as the vertical displacement of a point on the foundation relative to its original position. Calculating deflection involves analyzing individual arc-deflections for each profile across the floorplan. Tilt, on the other hand, refers to the inclination or angular deviation of a structure from its intended level or vertical alignment. In the context of a level-B foundation evaluation, tilt calculations involve measuring the horizontal displacement of points on the foundation relative to a reference plane or datum. Tilt can result from various factors, including uneven settlement of the foundation, soil movement, or structural deficiencies.

Foundation movement calculations have generally been performed according #FPA-SC-13-1 'Guidelines for the Evaluation of Foundation Movement for Residential and Other Low-Rise Buildings.' The calculations separate foundation movement into foundation 'Deflection' (bending) and foundation 'Tilting' - straight line arithmetic of the elevation readings provided on the Elevation Survey will not yield the same results and should not be incorrectly compared. The standard allowable stabilized deflection is based on 1.0 inch of vertical movement, up or down, over a horizontal distance of 30 feet; expressed as Length (L in inches) / 360. The standard allowable tilt is based on 1% slope over the entire length, width, or diagonal of the foundation. In some cases the calculations are expanded to fit this particular analysis.

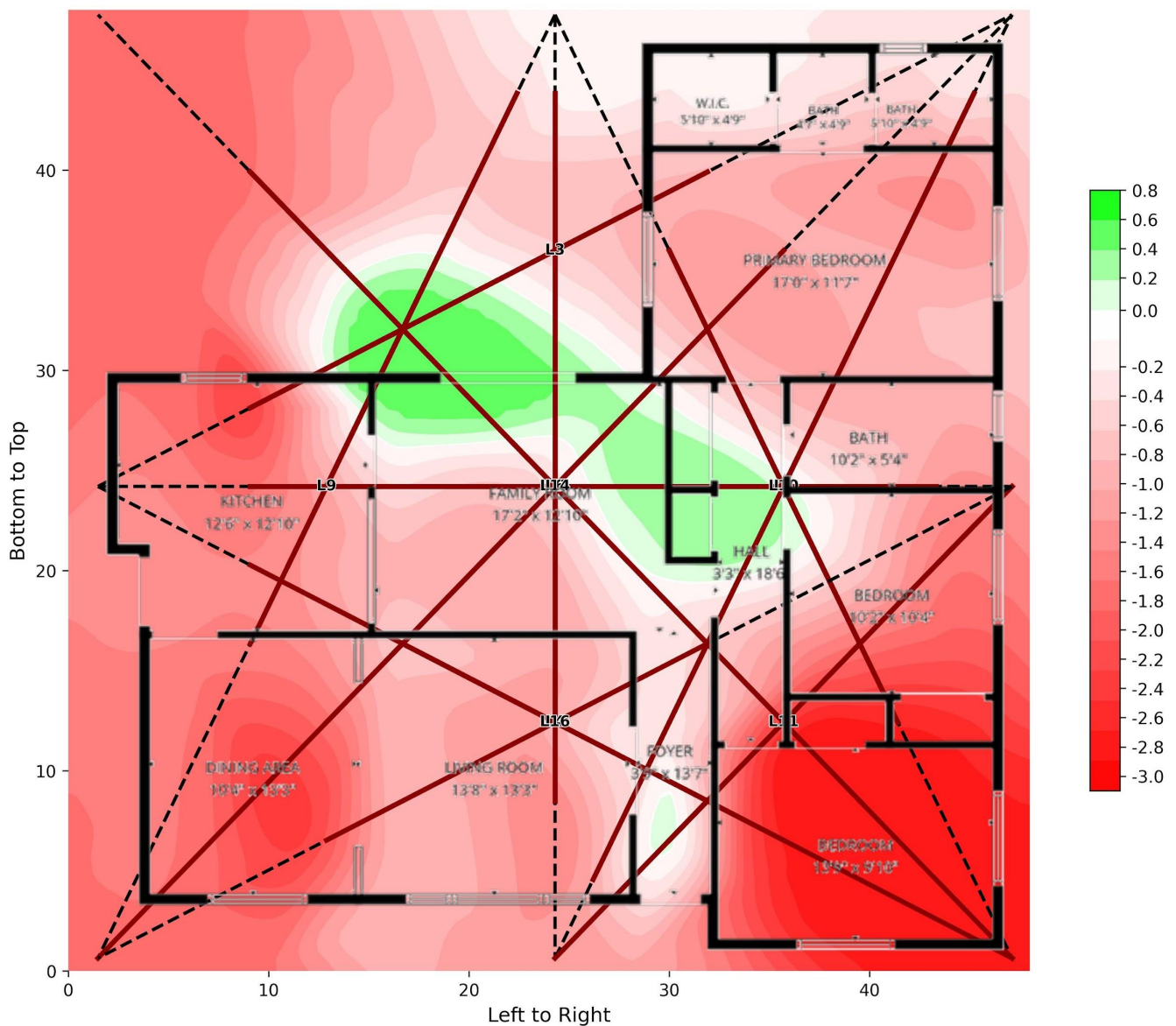
In layman's terms, the deflection calculations represent localized areas of concern where tilt calculations represent entire foundation movement as a singular plane. By accurately quantifying deflection and tilt, this evaluation can assess the overall performance of the foundation, identify potential issues such as excessive settlement or structural misalignment, and recommend appropriate remedial measures to ensure the foundation's stability and longevity. These calculations are crucial for safeguarding the structural integrity of buildings and mitigating the risk of foundation-related failures.

Below is a graphic that shows the locations of deflection and tilt profiles that were calculated. The total profiles calculated was 16 with a total usable profiles (above the effective length threshold) of 16.



All Profiles Graphic (Figure C)

Below is a graphic that indicates the locations of the 11 deflection calculation failures.



Deflection Failures Graphic (Figure D)

The above Figure D shows deflection failures along the foundation. Deflection failures can be considered localized failures in (sometimes) isolated portions of the foundation. The profile lines that were calculated are represented by a dashed black line and the areas that the deflection failures occur are represented by a dark red line segment. Of the 16 deflection profiles calculated, 11 profile failures were identified.

5.3 - Comparison of Other Elevation Plots

No previous elevation plot was provided. It is highly recommended that the Client maintain a record of elevation plot reports so that comparison from year-to-year is possible. Without a comparable elevation plot the evaluation only represents a single point in time and a timeline of movement is not possible.

6.0 - Soils and Geotechnical

Foundation movement is a prevalent phenomenon in areas where poor soils exist due to expansive clays. Future foundation movement is always possible due to the shrink/swell characteristics of the soil. The foundation is prone to movement due to the moisture variation in the existing soil and total prevention of all future movement is unlikely.

7.1 - Results: Elevation Plot

Elevation differences across the structure are the first indicator that a foundation problem may or may-not exist. As documented above, the maximum elevation point of this structure was determined to be 0.4 inches and the minimum was -2.8 inches, resulting in an elevation difference of 3.2 inches of difference across the structure. The elevation plot takes into account differences in flooring thicknesses. The elevation deflection across an entire structure should, best-case-scenario, remain within 0.5 to 1-inch depending on the age of the structure. Measured differences approaching 2-inches are an initial sign of possible foundation fatigue. The maximum allowable elevation difference is subjective, depending on other factors such as the visual condition, size, and age of the structure (54 year(s) old) along with how the foundation performs when calculating deflection and tilt.

Based on observed elevations of the foundation from the elevation plot, the elevation differences do not fall within industry standards and tolerable limits. These findings indicate that the foundation does not have consistent and uniform elevation measurements. Note: elevation measurements alone are not the only indicator of foundation issues; see the deflection and tilt calculations (and the report's overall conclusion) for a complete understanding of foundation stabilization. If elevations fall outside of industry standard/tolerable limits, it is a first indicator that the foundation will fail in deflection and/or tilt.

7.2 - Results: Deflection

Deflection failures can be considered localized failures of the foundation in (sometimes) isolated portions of the foundation. Of the 16 deflection profiles calculated, 11 failures were identified.

Deflection failures are above standard acceptable limits; they exceed industry-standard thresholds and the structure should be considered actively moving/settling in areas where deflection failures are occurring. See the report's overall conclusion for a complete understanding of the overall foundation stabilization issue.

7.3 - Results: Tilt

Tilt failures can be considered structure-wide failures of the foundation. Of the 16 tilt profiles calculated, 0 failures were identified. The tilt calculations resulted in a maximum tilt profile of 0.41%.

As no tilt failures are present, these findings indicate foundation settling that is within tolerable limits. Note: tilt failures alone are not the only indicator of foundation problems; see the deflection and elevation calculations (and the report's overall conclusion) for a complete understanding of foundation stabilization.

8.0 - Conclusion

There are many factors that weigh into the Engineer's overall statement of opinion about the existing stability of the foundation. These various factors, as documented in Sections 1-7 above, are all considered when applying overall conclusive statements about the existing condition of the foundation and the future likelihood of foundation fatigue/failure.

Based on field observations of the foundation and analytical calculations, as documented in this report, the structure should be considered habitable and safe for occupancy (from a foundation stability standpoint) at this time.

This evaluation indicates clear signs of foundation issues. Calculations were not found to be within industry standard limits. Remedial measures are required to bring the foundation to a more level condition. It is recommended that foundation stabilization be completed as soon as possible, if possible within the next year. We also recommend you perform another house elevation plot after repairs have been completed to memorialize the elevation changes. In addition, visual deficiencies noted should be resolved after foundation improvements have been completed and may include:

- Patch and monitor visible foundation cracks
- Patch/cover exposed tension anchors
- Patch and monitor exterior brick or siding cracking
- Patch and monitor interior sheetrock cracking/separation
- Repair and monitor door misalignment
- Windows that won't open to resolve and monitor

The observed foundation conditions and need for foundation repair provide a reasonable basis to associate the ceiling cracking with movement of the foundation and supporting structural system. Foundation movement can result in differential movement throughout the structure, which may manifest as cracking in interior finishes such as ceilings. Based on the observed conditions, the ceiling cracking may be attributable, at least in part, to the identified foundation movement. Completion of the recommended foundation repairs should address the underlying movement and is expected to stabilize the affected areas. Following completion of the foundation repairs, the ceiling cracking should be monitored for continued movement or progression. Once the foundation has been stabilized and the cracking has remained stable, the affected ceiling areas should be properly patched and repaired to restore the finishes.

Client should talk with the previous/current owner about previous foundation repairs and ensure that any foundation work is warranted. If not immediately performed, client should budget for an impending foundation remediation project in the future.

Good foundation maintenance practices are the most effective solution to minimizing soil activity. The primary goal of foundation maintenance methods is to maintain a relatively constant moisture content in the soil around and below the foundation. The movement and drainage of water is a critical maintenance element that interacts with the shrink/swell properties of the expansive soil that the structure is supported upon. The goal of proper drainage is to remove excess water from around the foundation to keep the soil around and under the foundation at a stable moisture content. Gutters and downspouts are an effective method of directing rainwater away from the structure, but must be employed correctly. To better control the rainwater, ensure gutters, downspouts and extensions are present at each down-sloped area of the roof. The downspouts should discharge the water a minimum of 5 feet from the foundation or into a drainage system. To assist in the drainage of free water, the grade surrounding the foundation should be sloped away from the foundation for the first 10 feet around the perimeter where practicable. The slope should drop a minimum of 6 inches in 10 feet - a 5% slope. Swales should have longitudinal slopes of a minimum of 2 inches in 10 feet. If this cannot be done a French Drain may be required. Over-saturated soils can cause foundation heave and/or settlement and contribute to excessive foundation movement. Remediate ponding water immediately.

Beyond conventional pier systems, several methods can improve foundation performance depending on soil conditions and foundation type. These may include subgrade chemical stabilization, high-pressure injection of stabilizing clays, polymer or foam injection systems that increase subgrade density and reduce soil movement, soil grouting to strengthen weak zones, and moisture conditioning or drainage management to regulate soil expansion and contraction. Clients are encouraged to consult with qualified foundation contractors to explore the most suitable stabilization options for their site conditions.

Crack monitors, also called crack gauges, can be installed across existing foundation or structural cracks to measure any changes in width over time. These devices provide a simple, visual way to track movement, helping determine whether cracks are stable or actively widening. Monitoring allows for informed decision-making regarding maintenance, repairs, or the need for additional stabilization measures.

To stabilize and lift the foundation, install and/or adjust perimeter and interior piles/piers as shown in the attached Exhibit A - Proposed Repair Plan. The underpinning may be concrete cylinders, steel pipe, helical screws, or drilled concrete piers – refer to Exhibits D, E, F, and G. Underpinning will not improve the performance of the foundation in non-underpinned areas. Note, any foundation movement, even corrective, can cause additional cosmetic distress. The contractor shall determine the amount of elevation correction needed based on the reaction of the structure during the adjustment in order to minimize stress and additional cosmetic damages.

The repair plan we have provided may have been developed without location information on existing underpinning. If possible, we recommend locating documentation of any existing underpinning prior to implementation of the new underpinning. This documentation may be provided to us to analyze and adjust the repair plan as needed to maximize its effectiveness. Adjustment of the existing piers/piles that are in the same location as our recommended underpinning can be substituted for installation of new underpinning.

Following completion of the foundation underpinning installation, it is recommended that you obtain a final elevation survey to provide a post-repair elevation baseline. Review the performance of the foundation every 6 to 12 months. Compare all future foundation evaluations to the pre-repair and post-repair elevation baselines and to produce a final elevation survey with post-repair baseline and to ensure that the repairs have been performed in general accordance with the FPA-SC-13-1.

The provided repair plan locates piers only along the exterior perimeter of the structure. While this design approach is expected to provide appropriate remediation for the observed foundation concerns, it is important to note that the average effective support diameter of a pier is approximately seven (7) feet in most cases. If the foundation performs as anticipated and the exterior piers adequately support the load distribution of the slab, they may provide sufficient stabilization and long-term remediation. However, there remains the possibility that a second phase of interior piers could be required in the future should performance issues persist or develop.

Interior piers are considerably more invasive and expensive to install, typically requiring removal and replacement of interior flooring as well as saw-cutting through the existing foundation slab. For this reason, interior pier installation is generally not recommended unless foundation performance is substantially deficient and exterior piers alone are unlikely to achieve adequate stabilization. Instead, exterior piers are often recommended as a first remedy. Consultation with a qualified foundation contractor is recommended, as the contractor will be responsible for the warranty coverage related to the repair work performed.

9.0 - Limitations

This report documents a limited engineer's foundation evaluation scope inspection only. Inspector will only report deficiencies of the elements that are within the agreed-upon foundation-related scope, and will not perform an inspection of the entire property.

This report has been assembled by a team, each member bringing specialized expertise to ensure a comprehensive evaluation within the scope of our project. The team comprises a field-inspector, responsible for conducting thorough on-site examinations; a reviewer, who reviews and consolidates the findings; and an engineer, who applies a desktop evaluation and calculations to the field data collected. The structuring of our team and the distribution of roles have been strategically designed to optimize both the quality and cost-efficiency of the provided services. The team may (or may not) be comprised of individuals working for different companies. The Engineer did not perform a site visit.

Verification of permitted construction activities through the correct jurisdictional authority is not part of the scope of this report. Photos here of permit-related documents and stickers are for informational purposes only.

10.0 - Liability

The contents of this report supersede any verbal communication regarding the subject foundation during or after the inspection. This report was prepared for the exclusive use of the client listed above. There is no obligation or contractual relationship to any party other than our client and their agents in regards to the subject property. The opinions and recommendations contained in this report are based on the visual observation of the then current conditions of the structure and the knowledge and experience of the inspector/engineer.

The most effective long-term solution to foundation movement is deep foundation underpinning for the entire structure, however these methods may not be economically feasible and often causes unwanted cosmetic damage. As such, this report may present options that consider factors such as viability, timeliness, and cost. This report provides engineering advice intended to correct the observed foundation deficiencies assuming normally expected subsurface conditions and conventional construction methods.

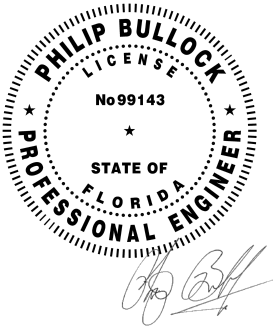
This report is only an engineering statement of opinion and report of findings based on the information available at the time of inspection. It does not provide any guarantee to the current state of the structure's foundation. It does not "guarantee" against future foundation problems nor does it provide any warranty to the foundation itself. The report was based on the information that was available at the time. Should additional information become available, the engineer/inspector reserves the right to determine the impact, if any, the new information may have on the opinions contained herein and revise conclusions and opinions as necessary and warranted. The engineer is not responsible for knowledge of subsurface conditions without geotechnical data provided, including vertical stabilized displacement from clay soils.

Engineer/inspector is not responsible for concealed conditions where a visual observation was not possible or any other areas that are not readily available to the engineer or inspector for evaluation during the site visit. The evaluation was limited to visual observations and areas not visible, accessible, or hidden behind furniture and appliances were not included in the evaluation. The evaluation did not include any soil sampling or testing, nor any assessment of the existing framing, plumbing, or auxiliary structures and no implication is made on the compliance or non-compliance of the structure with old or current building codes. No verification was made of the existing concrete strength, thickness, location of interior grade beams, reinforcement, nor capacity to support any load.

Limits of liability for any claims with respect to this report is limited to the fees paid for services and anyone relying on the content of this report agrees to indemnify the company for all costs exceeding the fee paid.

Engineer's Seal:

Philip W. Bullock Jr., M.E., M.B.A., P.E. (FL)
FBPE #99143 | Firm #
Noble Engineering Services, LLC (FL) (In partnership with
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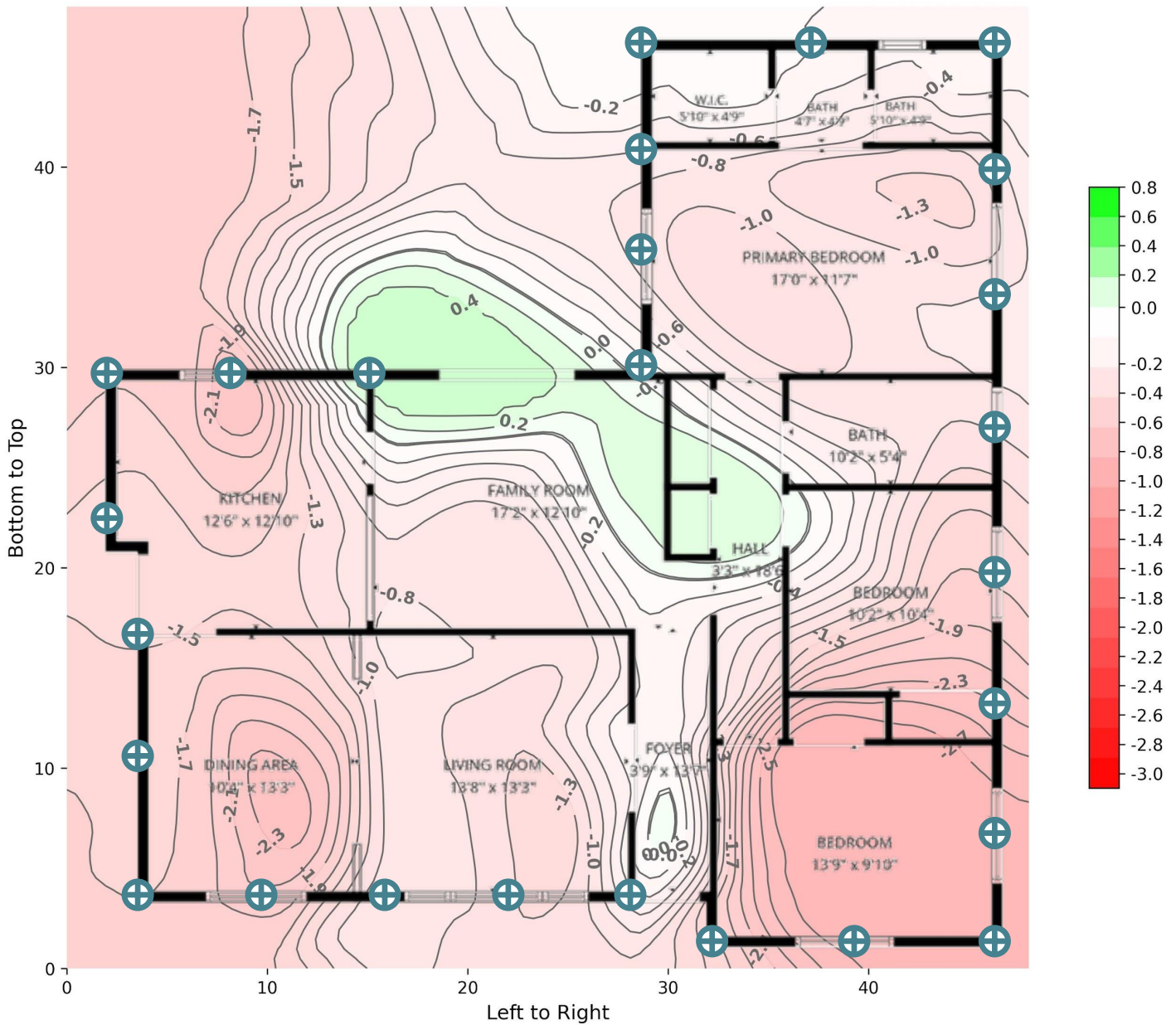


Sealed:
8/10/2026

Possible Attachments:

√ - Provided	Exhibit A	Proposed Repair Plan
√ - Provided	Exhibit B	Identified Deflection/Tilt Failure
√ - Provided	Exhibit C	Table of Deflection and Tilt Failures
√ - Provided	Exhibits D/E/F/G/H/I/J/K/L	Proposed Repair Details for this Project
√ - Provided	Appendix A	On-Site Inspection Report with Photos Dated 8/8/2026
X - Not Provided	Appendix B	Other Pertinent Documents (repairs, previous plots, etc.)
√ - Provided	Appendix C	Floorplan Scan

Exhibit A - Proposed Repair Plan



Foundation Type: Slab on Grade (1972)

		PROPOSED	
Contour Line and Elevation	Exterior Push Pile or Drilled Pier	26	piers/pilings
Base Station (0.0)	Interior Slab Pier	0	piers/pilings
Zero Elevation (0.0)	Existing Pile/Pier to be Adjusted	0	piers/pilings
Negative Elevation (-)	Existing Support Areas to be Adjusted	0	square-feet
Positive Elevation (+)	Trees to be Removed	0	trees

Opinion of Probable Construction Cost (OPCC)

For budgeting and price-comparison purposes only

Estimated Foundation Repair Costs					
Item	Description	Amount	Units	Cost	Total
1	Exterior Push Pile or Drilled Pier(s) <i>Contractor to install 26 exterior push pile or drilled pier(s). See exhibit(s) D, E, F, and G for details. See foundation repair company notes below.</i>	26	pier/piling(s)	\$675	\$17,550.00
2	Interior Slab Pier(s) <i>Contractor to install 0 interior slab pier(s). See exhibit(s) D, E, F, and G for details. See foundation repair company notes below.</i>	0	pier/piling(s)	\$1,000	\$0.00
3	Existing Pile/Pier(s) to be Adjusted <i>Contractor to adjust 0 slab pile/pier(s). Adjustment may not be possible or rejected by the foundation company not responsible for the installation. Cost highly variable.</i>	0	pier/piling(s)	\$506	\$0.00
4	Existing Support Area(s) to be Adjusted <i>Contractor to adjust approximately 0 square-feet of decked foundation. Metal shims shall be used; replace wooden shims with metal. Use termite shields where possible. Cost assumes adequate accessibility without the need for tunneling</i>	0	square-feet	\$5.50	\$0.00
5	Tree(s) to be Removed <i>Contractor to remove 0 trees located too close to the structure. Installation of a root barrier system may also be possible if the tree (s) are considered a valuable addition to the property.</i>	0	tree(s)	\$1,100	\$0.00

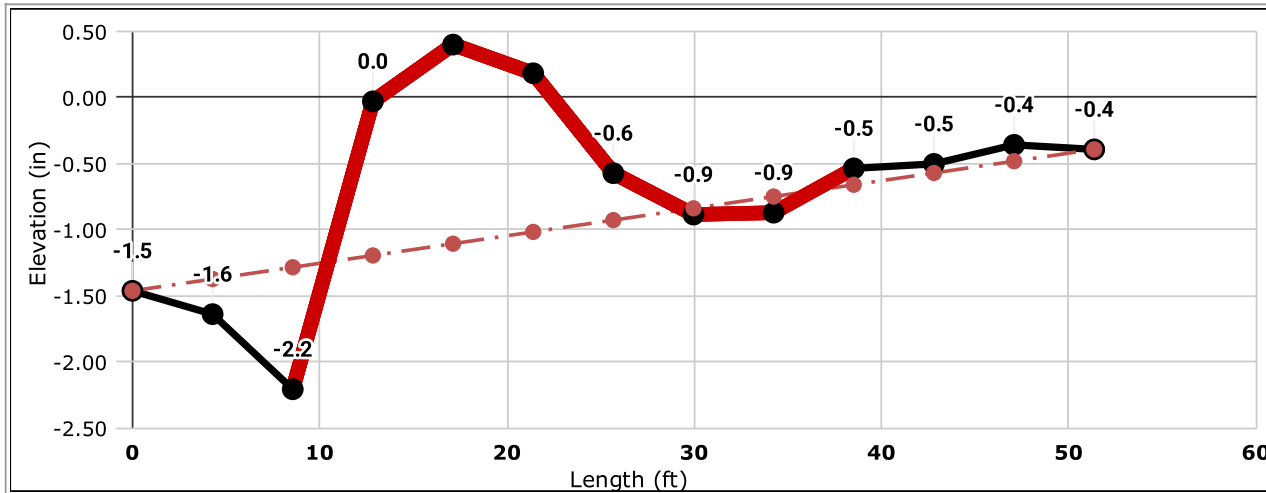
Estimated Rehabilitation Costs					
Item	Description	Amount	Units	Cost	Total
1	Patch exterior and interior wall and foundation crack(s) <i>Contractor to patch exterior and interior wall cracks with concrete, mortar, caulk, mudd/tape/texture/paint, etc. depending on type of patch necessary after foundation work is completed.</i>	1	lump sum	\$1,500	\$1,500.00
2	Adjust door(s) and window(s) <i>Contractor to adjust doors to latch and/or lock after foundation work is completed. Adjust windows to open smoothly.</i>	1	lump sum	\$750	\$750.00

GRAND TOTAL:	\$19,800.00
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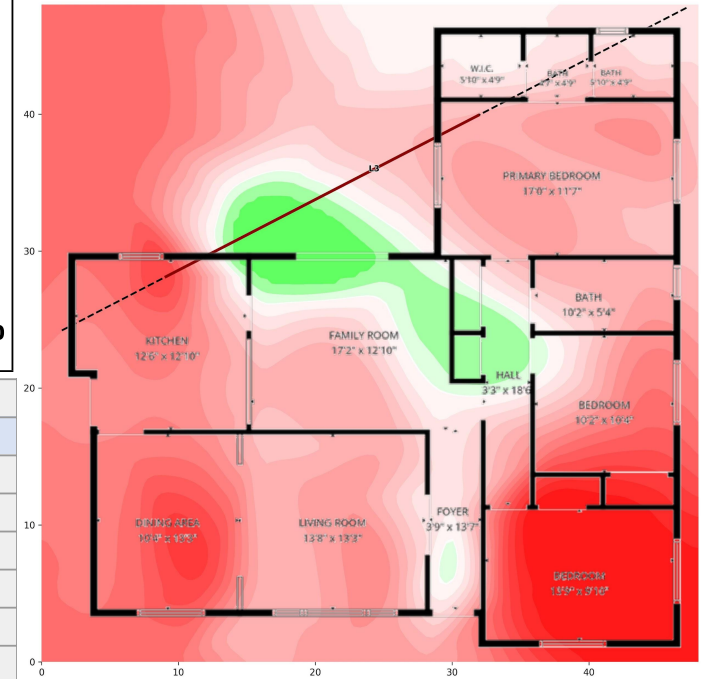
Foundation Repair Company Notes
Diameter and Depth: The pier diameter and depth should be designed by the contractor based on the load requirements of the structure and the bearing capacity of the soil or rock layer. Piers/pilings must extend to a depth where soil conditions are stable enough to support the structure's loads. Material Specifications: High-strength concrete, reinforced with steel rebar, should be used where applicable. The specification of materials should comply with relevant standards and codes to ensure durability and strength. Load Distribution: The design must consider the distribution of structural loads to the piers/pilings, ensuring that each pier can adequately support its portion of the total load without exceeding the bearing capacity of the underlying soil or rock. Contractor may recommend more or less pier/pilings depending on their means/methods. Lateral Stability: In addition to vertical loads, the design must account for lateral forces due to wind and/or soil pressure. This may require additional reinforcement or specific pier/piling configurations. Construction Technique: The construction process involves drilling, excavation, and concrete pouring techniques that minimize disturbance to surrounding soil and ensure the integrity of each pier/piling Water Handling: If groundwater or water-bearing layers are encountered during drilling, appropriate measures must be taken to manage water inflow and prevent undermining of the pier's foundation. Inspection and Quality Control: Continuous inspection during construction ensures that the piers/pilings conform to the design specifications. Quality control measures are crucial for verifying the integrity of materials and construction practices.

Limitations to this Cost Estimate
Engineer does not warranty or guarantee the accuracy of the costs provided. The costs estimated in this OPCC are intended to serve as a guideline only and are subject to change based on various factors, including but not limited to, market conditions, the specific contractor's methods, materials, and costs, as well as unforeseen circumstances during the construction process. These costs are not bids or fixed quotes for the construction project. The final choice of contractors, subcontractors, materials, and methods, warranty, and any resulting cost implications, are the sole responsibility of the Client. Engineer shall not be held liable for any claims, disputes, or litigation arising from differences between the estimated costs and the actual costs incurred during the construction project. Rehabilitation costs are highly variable and depend on the fortification technique and other unpredictabilities.

Exhibit B: Identified Deflection/Tilt Failure (L3)



Profile Data for L3		Actual Length (ft)						51	Effective Length (ft)					20
Point (#)	1	2	3	4	5	6	7	8	9	10	11	12	13	
Length (ft)	0	4	9	13	17	21	26	30	34	39	43	47	51	
Tilt (in)	-1.5	-1.4	-1.3	-1.2	-1.1	-1.0	-0.9	-0.8	-0.7	-0.7	-0.6	-0.5	-0.4	
Z (in)	-1.5	-1.6	-2.2	0.0	0.4	0.2	-0.6	-0.9	-0.9	-0.5	-0.5	-0.4	-0.4	
Deflection 1 (Failures)			-2.2	0.0	0.4	0.2	-0.6	-0.9						
Deflection 2 (Failures)			-2.2	0.0	0.4	0.2	-0.6	-0.9						
Deflection 3 (Failures)			-2.2	0.0	0.4	0.2	-0.6	-0.9	-0.9					
Deflection 4 (Failures)			-2.2	0.0	0.4	0.2	-0.6	-0.9	-0.9	-0.5				
Deflection 5 (Failures)			-2.2	0.0	0.4	0.2	-0.6	-0.9	-0.9	-0.5				



k-factor Calculation									
Start Position (x,y) (ft)	1.480000019	23.799999924	End Position (x,y) (ft)	47.11999893	0.2399997711	k-factor (1.00 to 1.41)	1.125378486		
Length (ft)	45.63999891		Width (ft)	23.55999947		Limit	L /	320	

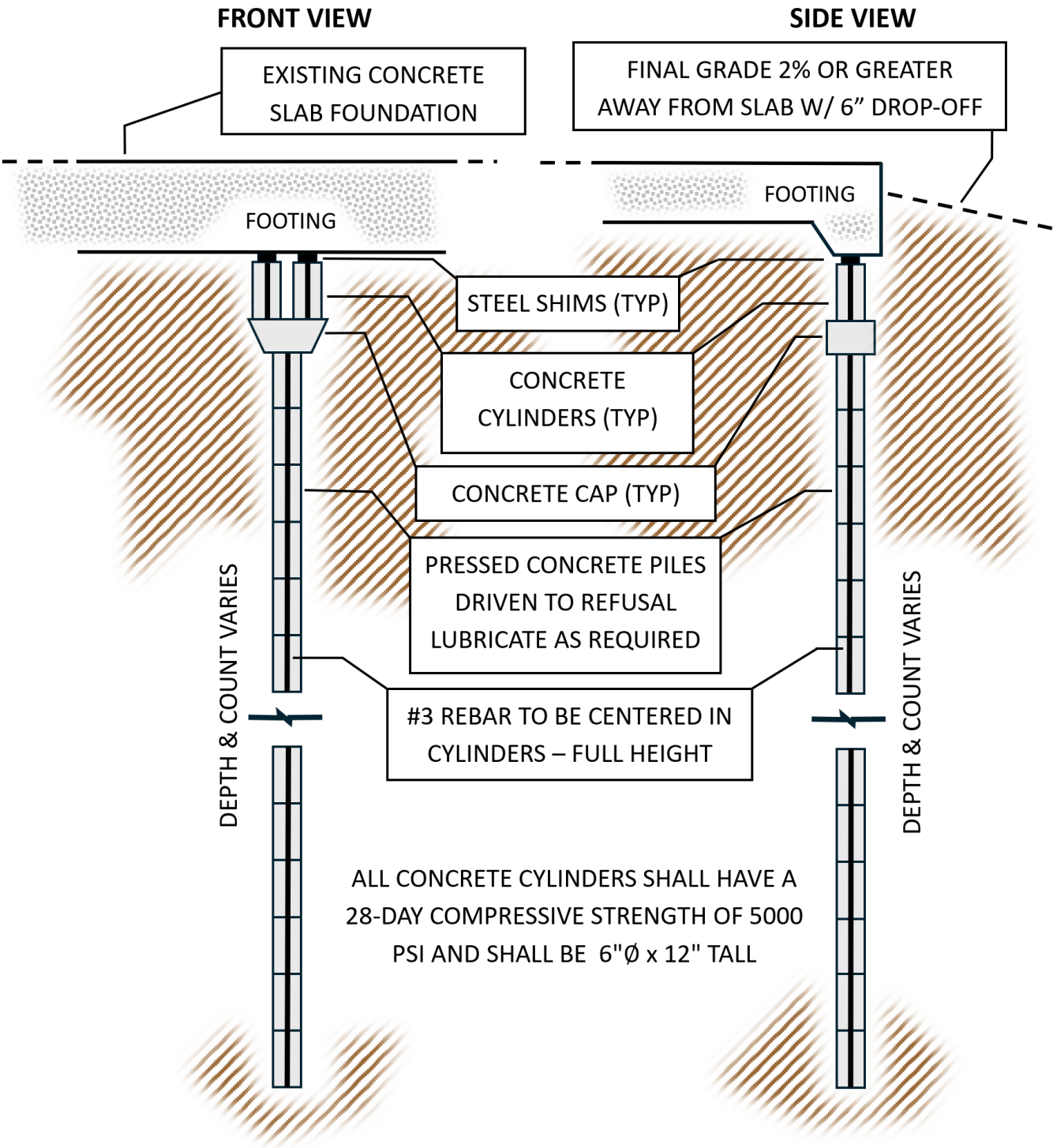
Performance Output									
Deflection & Tilt	Pass/Fail	Actual		Result Description			Point 1	Point 2	Point 3
Deflection 1 (using k)	FAIL	L /	124	EXCEEDS THE kL/360 (L/320) LIMIT BY 159%			3	5	8
Deflection 2 (using k)	FAIL	L /	134	EXCEEDS THE kL/360 (L/320) LIMIT BY 138%			3	4	8
Deflection 3 (using k)	FAIL	L /	143	EXCEEDS THE kL/360 (L/320) LIMIT BY 124%			3	5	9
Deflection 4 (using k)	FAIL	L /	158	EXCEEDS THE kL/360 (L/320) LIMIT BY 103%			3	4	10
Deflection 5 (using k)	FAIL	L /	161	EXCEEDS THE kL/360 (L/320) LIMIT BY 99%			3	7	10
Tilt	PASS	0.17	%	USING 17% OF THE ALLOWABLE 1% LIMIT					

*Calculations developed by FPA for Document # FPA-SC-13-1 - Guidelines for the Evaluation of Foundation Movement for Residential And Other Low-Rise Buildings

Exhibit C - All Deflection and Tilt Failures Table

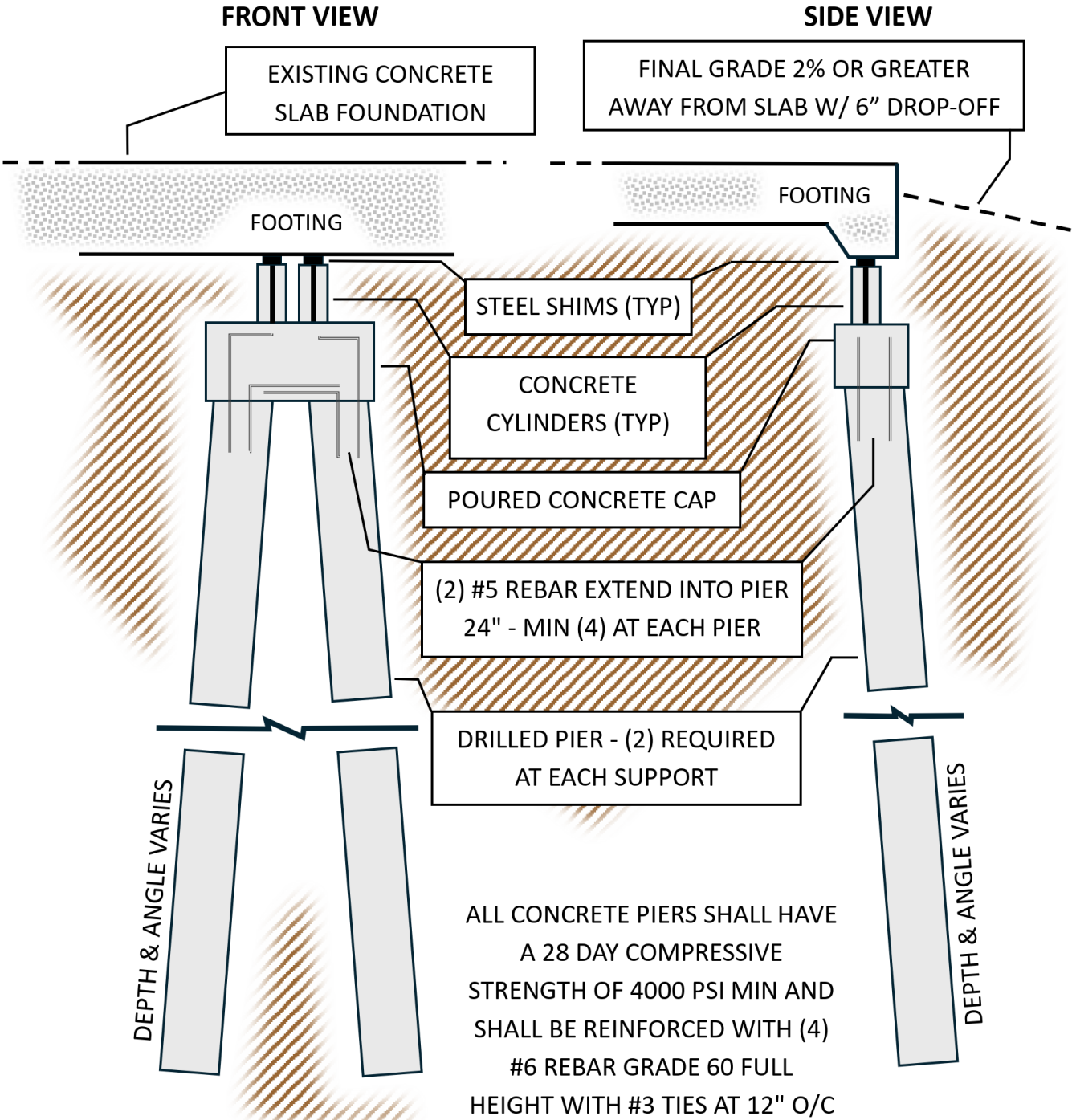
Profile	Deflection Calculation?	Tilt Calculation?	Lengths		Deflections 1-5										Tilt	
			Actual Length	Effective Length	Deflection 1		Deflection 2		Deflection 3		Deflection 4		Deflection 5			
					%	Exceeds	%	Exceeds	%	Exceeds	%	Exceeds	%	Exceeds	%	Exceeds
L3	FAIL	PASS	51	20	1.59%	YES	1.38%	YES	1.24%	YES	1.03%	YES	0.99%	YES	0.17%	NO
L4	FAIL	PASS	51	20	0.96%	YES	0.90%	YES	0.82%	YES	0.77%	YES	0.77%	YES	0.20%	NO
L5	FAIL	PASS	46	20	0.76%	YES	0.54%	YES	0.53%	YES	0.49%	YES	0.47%	YES	0.04%	NO
L6	FAIL	PASS	47	20	0.42%	YES	0.24%	YES	0.19%	YES	0.18%	YES	0.17%	YES	0.20%	NO
L7	FAIL	PASS	52	20	1.14%	YES	1.02%	YES	1.00%	YES	0.87%	YES	0.82%	YES	0.41%	NO
L9	FAIL	PASS	52	20	0.66%	YES	0.52%	YES	0.47%	YES	0.42%	YES	0.33%	YES	0.26%	NO
L10	FAIL	PASS	52	20	0.13%	YES	0.12%	YES	0.10%	YES	0.10%	YES	0.10%	YES	0.13%	NO
L11	FAIL	PASS	33	20	0.80%	YES	0.74%	YES	0.69%	YES	0.59%	YES	0.41%	YES	0.01%	NO
L13	FAIL	PASS	66	20	0.19%	YES	0.09%	YES	0.04%	YES	0.02%	YES	0.98%	NO	0.17%	NO
L14	FAIL	PASS	66	20	0.40%	YES	0.34%	YES	0.28%	YES	0.26%	YES	0.23%	YES	0.13%	NO
L16	FAIL	PASS	51	20	0.00%	YES	0.93%	NO	0.90%	NO	0.86%	NO	0.83%	NO	0.07%	NO

Exhibit D - Concrete Cylinder Piles



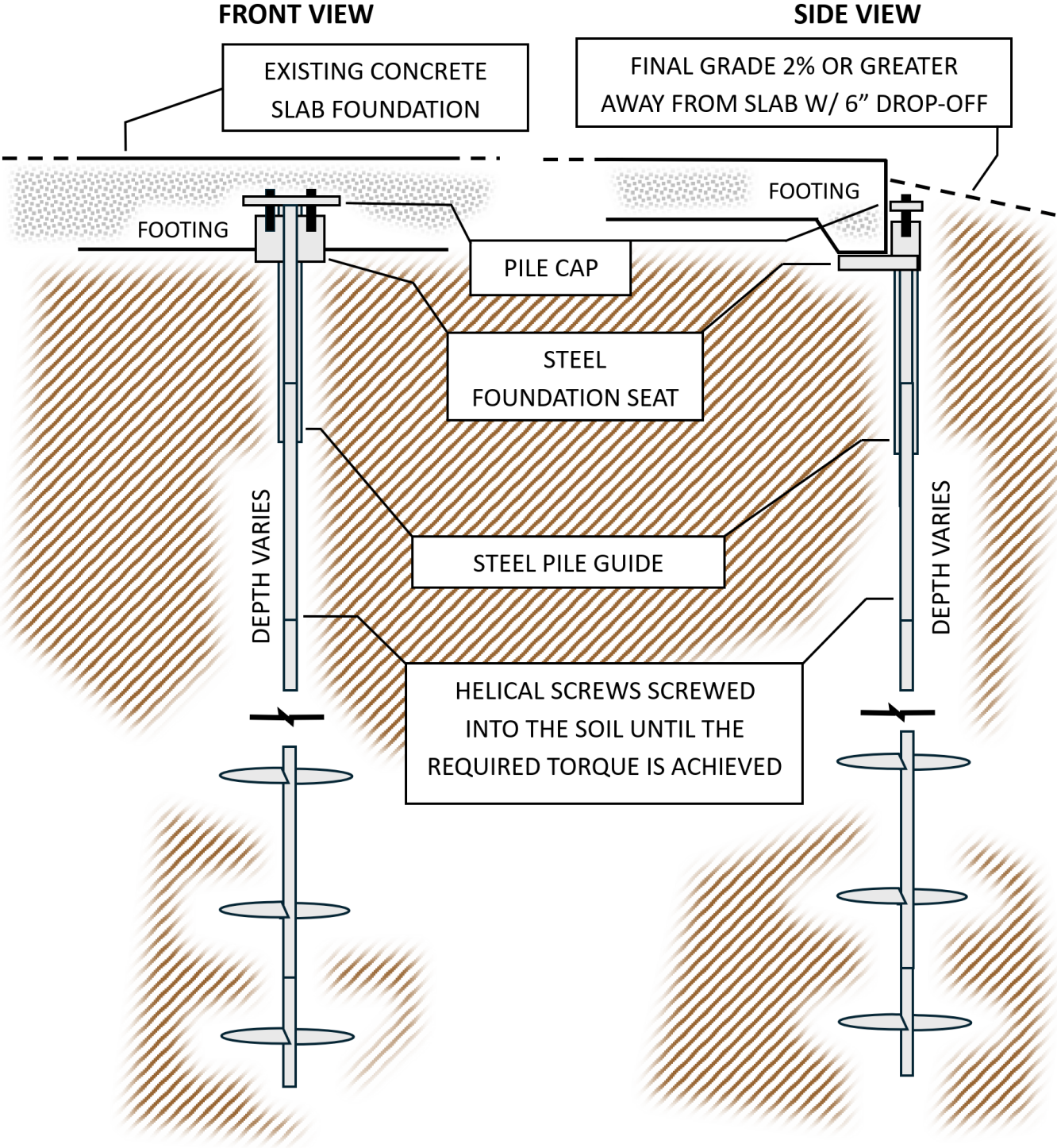
Not to Scale | Drawings are provided for conceptual use only and are not considered engineering details

Exhibit E - Drilled Piers



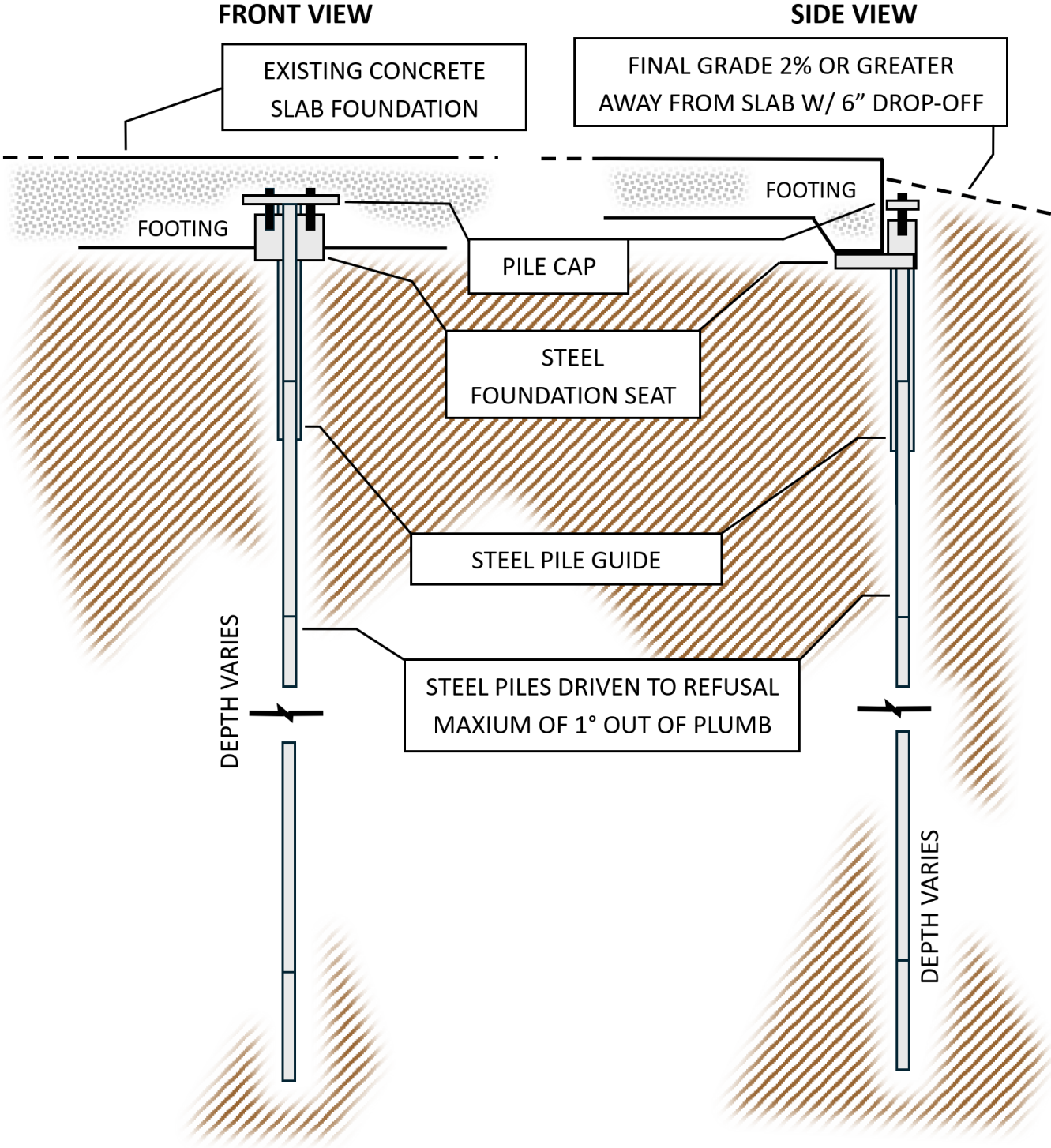
Not to Scale | Drawings are provided for conceptual use only and are not considered engineering details

Exhibit F - Helical Screws



Not to Scale | Drawings are provided for conceptual use only and are not considered engineering details

Exhibit G - Steel Piles



Not to Scale | Drawings are provided for conceptual use only and are not considered engineering details



Appendix A

On-Site Inspection Report with Photos Dated 8/8/2026



The on-site inspection report may be too lengthy to include in the Appendix A herein. This can occur with lengthy reports, particularly if they contain other specialties. If a full copy is not here, we recommend contacting the inspector.

Inspector: Anthony Stacy

All In Home Inspections

P: (904) 600-6019

E: allinhomeinspections904@gmail.com

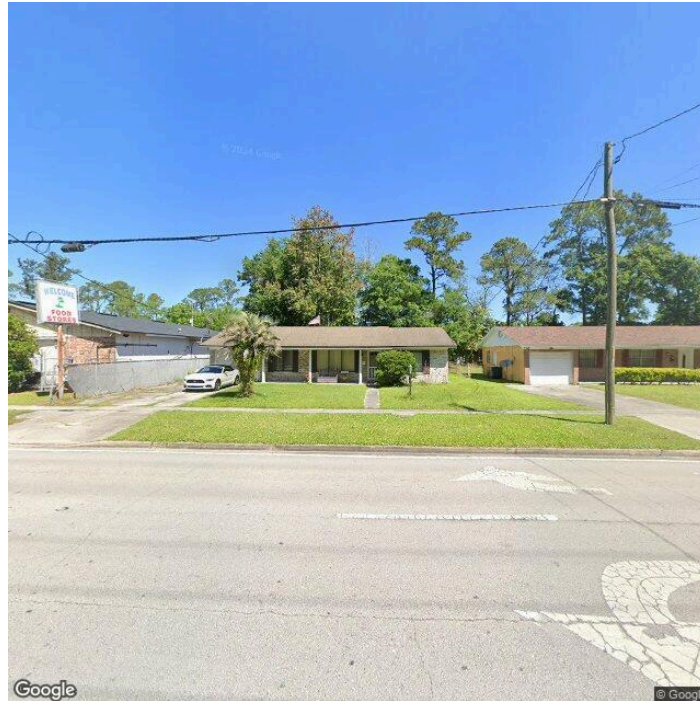


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EFE- ENGINEER'S FOUNDATION EVALUATION



Inspector

Anthony Stacy

InterNachi Certified Home Inspector

9046006019

allinhomeinspectionsjax@gmail.com

TABLE OF CONTENTS

1: General	3
2: EFE - Engineer's Foundation Evaluation	4
Standards of Practice	22

1: GENERAL

Information

Ceiling Crack Previously Repaired

A ceiling crack that extended along the left side of the foyer was identified during the inspection. This crack had been repaired prior to the engineer's foundation evaluation. The repair suggests the crack may have been related to foundation movement or structural settling.

The columns in the second living room were separating from the partition as well and repaired prior to the inspection.

Front porch is separating from the house and major cracking.

2: EFE - ENGINEER'S FOUNDATION EVALUATION

2.1	General
2.2	Base Station
2.3	Entry
2.4	Family Room
2.5	Living Room
2.6	Kitchen & Nook
2.7	Dining Room
2.8	Primary Bedroom
2.9	Primary Bathroom
2.10	Primary Closet
2.11	Bedroom
2.12	Bedroom
2.13	Bathroom
2.14	Laundry
2.15	Garage

Information

General: Habitability

Habitable

Habitability is a determination based on visual foundation-related criteria only and not based on other trades (electrical, plumbing, HVAC, etc.)

General: Owner/occupant

foundation history interview

Foundation

Owner/occupant provided the
information documented below

General: Foundation work documentation

Client is strongly encouraged to investigate the possibility of previous foundation work or the existence of previous documentation of foundation performance. This would involve locating, for the purpose of the Engineer's Foundation Evaluation, documentation such as:

- Builder's elevation measurements (typically for warranty claims)
- Historic elevation measurements (typically by other repair or Engineering companies)
- Previous foundation work performed
- Warranty paperwork

Any documentation discovered should be prepared in a digital format and emailed to us for inclusion into the Engineer's Foundation Evaluation.

Base Station: Base station location photo(s)

Front Door

This inspection included an elevation plot. The elevation plotter (ZipLevel) is a high precision altimeter that measures the elevation differences throughout the structure. The altimeter works by measuring the difference between the base station elevation and the adjoining rooms. The measurements shown on the control panel in this section of the report are in inches and represent the difference (both positive + and negative -) in elevation between the base station and the control panel photo. An elevation plot is only completed on the slab elevation (typically the 1st floor).

The altimeter only reads differences in elevation throughout the structure and does not determine the mean sea level elevation of the finished floor as a survey would for base floodplain elevation consideration, for example.

The base location represents the 0-elevation mark where all other elevation readings are based. The other elevations read from the control panel represent the difference in elevation (in inches) from this base.

Base Station: Base station zeroed photo

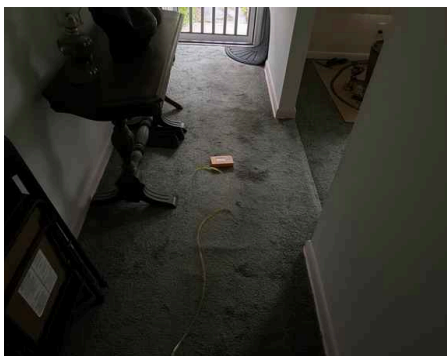


Entry: Flooring difference factor

Entry

Same Flooring (0.0)

Entry: Middle of entry door elevation & photo(s)



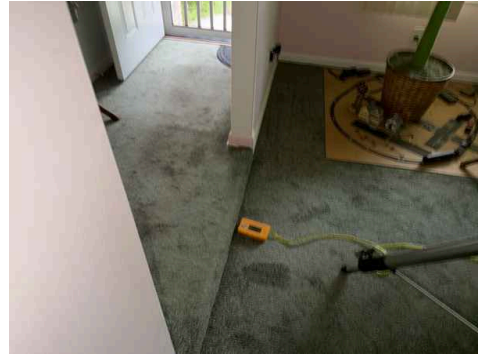
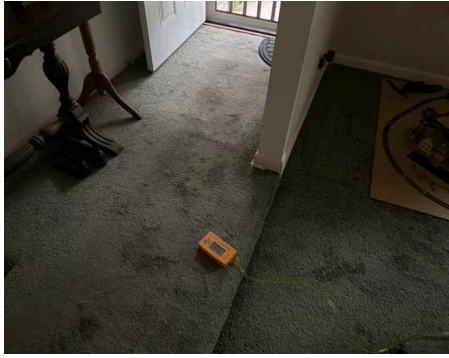
Entry: Middle of room elevation & photo(s)



Family Room: Flooring difference factor

Living Room

Step down, 3.5



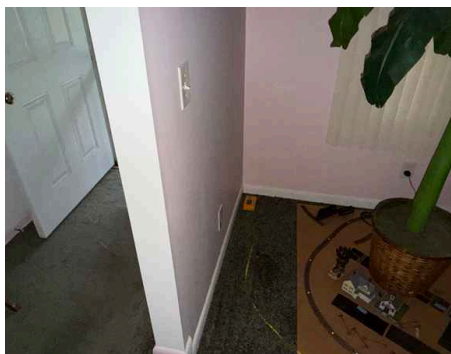
Family Room: Back-left elevation & photo



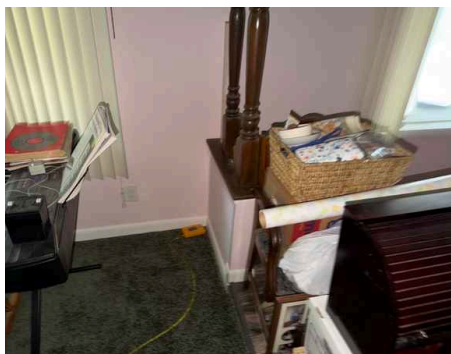
Family Room: Back-right elevation & photo



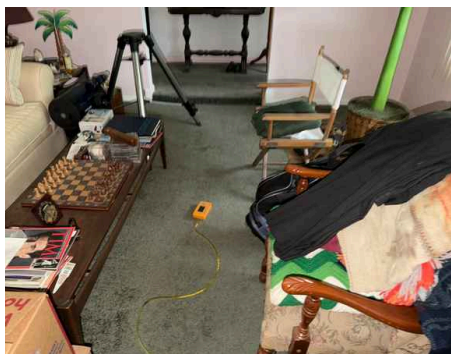
Family Room: Front-right elevation & photo



Family Room: Front-left elevation & photo



Family Room: Mid-room elevation & photo



Living Room: Flooring difference factor

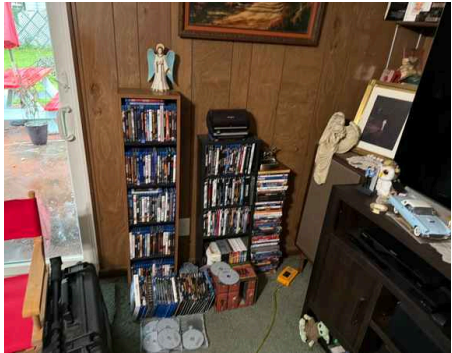
Living Room

Same Flooring (0.0)

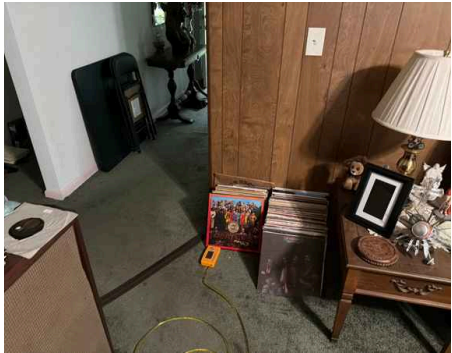
Living Room: Back-left elevation & photo



Living Room: Back-right elevation & photo



Living Room: Front-right elevation & photo



Living Room: Front-left elevation & photo



Living Room: Mid-room elevation & photo

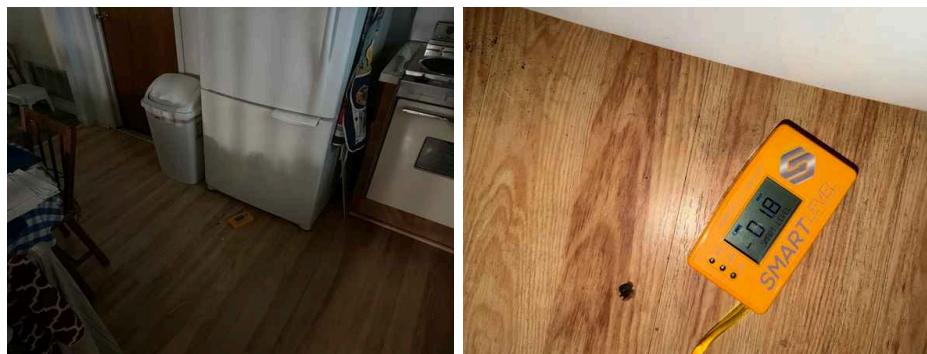


Kitchen & Nook: Flooring difference factor

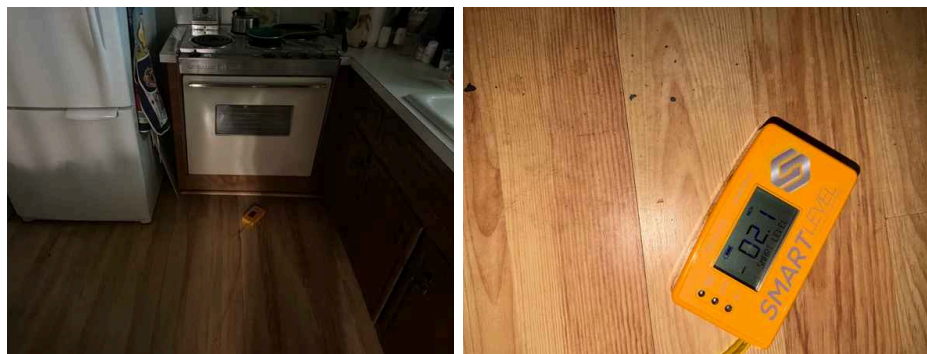
Kitchen
-0.3"



Kitchen & Nook: Front of fridge elevation & photo



Kitchen & Nook: Front of range/cooktop elevation & photo

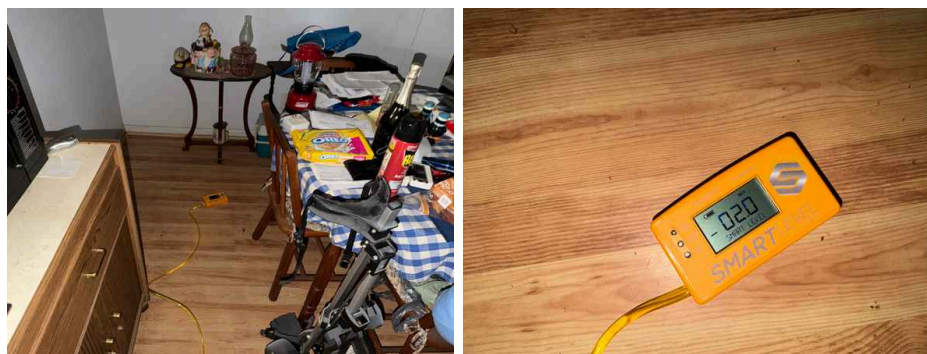


Kitchen & Nook: Front of sink elevation & photo



Kitchen & Nook: Front of pantry elevation & photo

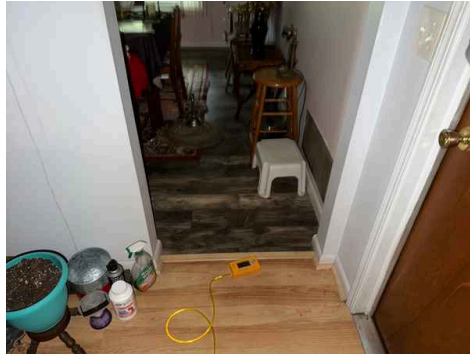
Kitchen & Nook: Middle of nook elevation & photo



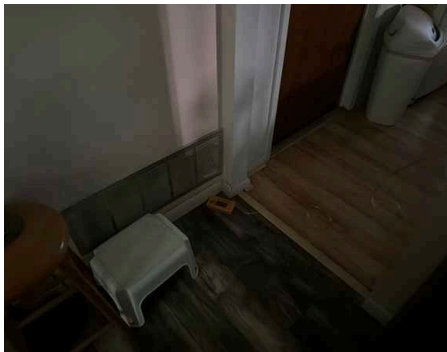
Dining Room: Flooring difference factor

Dining Room

-0.2"



Dining Room: Back-left elevation & photo



Dining Room: Back-right elevation & photo



Dining Room: Front-right elevation & photo



Dining Room: Front-left elevation & photo



Primary Bedroom: Flooring difference factor

Primary Bedroom
Same Flooring (0.0)

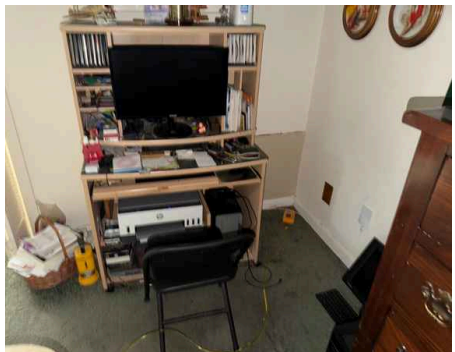
Primary Bedroom: Location in structure

Primary Bedroom
Back, Right

Primary Bedroom: Back-left elevation & photo



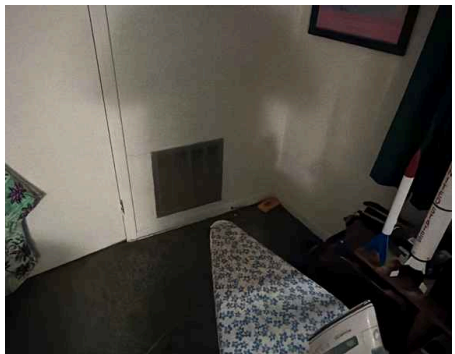
Primary Bedroom: Back-right elevation & photo



Primary Bedroom: Front-right elevation & photo



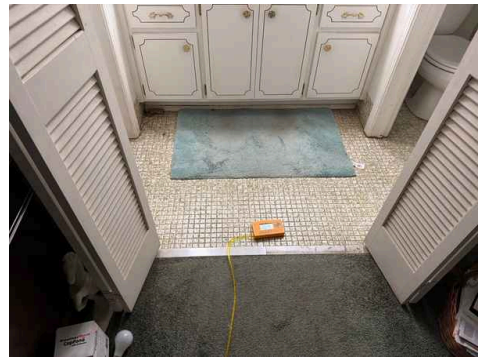
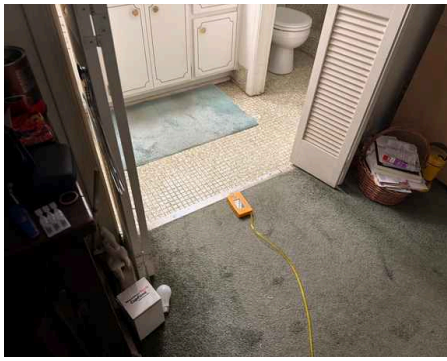
Primary Bedroom: Front-left elevation & photo



Primary Bathroom: Flooring difference factor

Primary Bathroom

-0.6



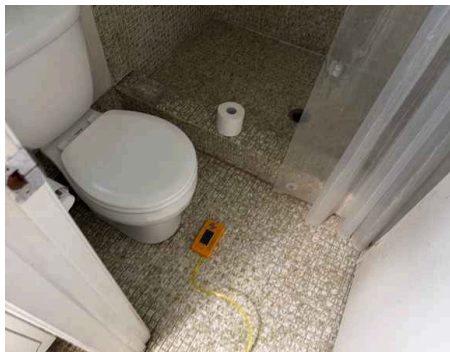
Primary Bathroom: Front shower/bath elevation & photo



Primary Bathroom: Mid-room elevation & photo



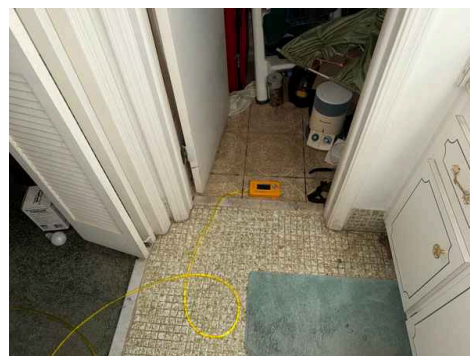
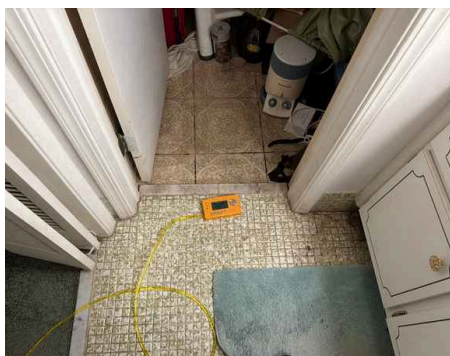
Primary Bathroom: Front of toilet elevation & photo



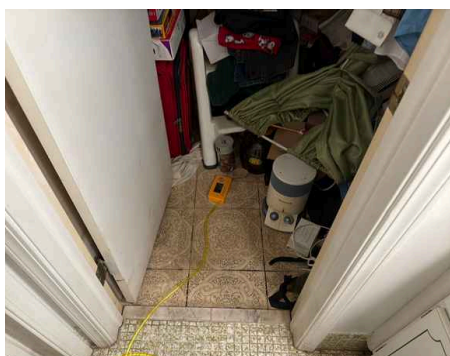
Primary Closet: Flooring difference factor

Primary Closet

-0.2"



Primary Closet: Primary closet elevation 1 & photo

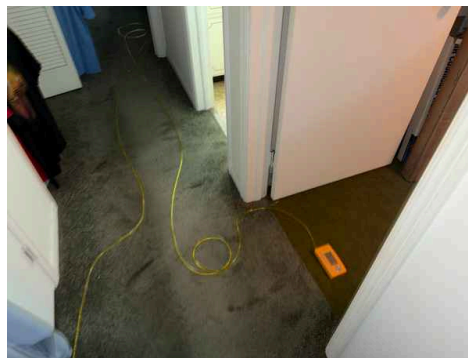
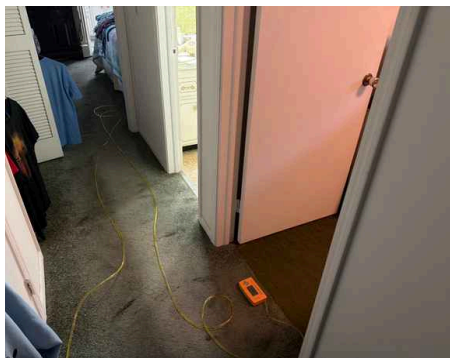


Primary Closet: Primary closet elevation 2 & photo

Bedroom: Flooring difference factor

Bedroom

-0.4"

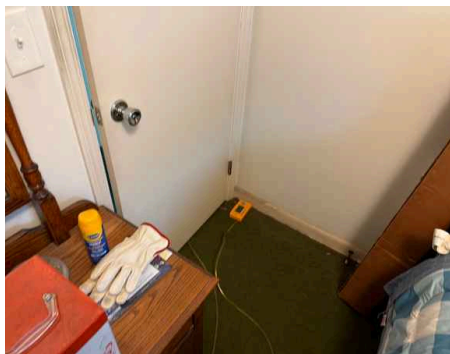


Bedroom: Location in structure

Bedroom

Right, Middle

Bedroom: Back-left elevation & photo



Bedroom: Back-right elevation & photo



Bedroom: Front-right elevation & photo



Bedroom: Front-left elevation & photo



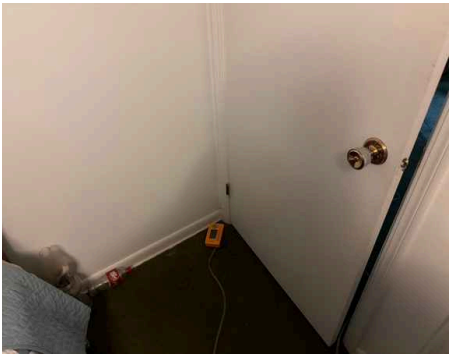
Bedroom: Flooring difference factor

Bedroom
Same Flooring (0.0)

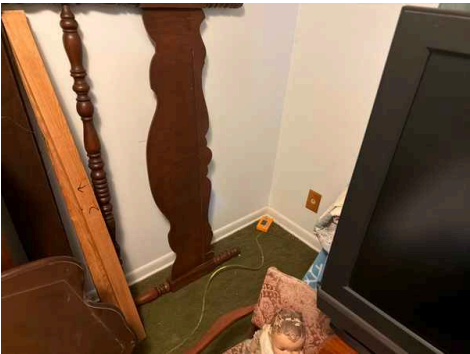
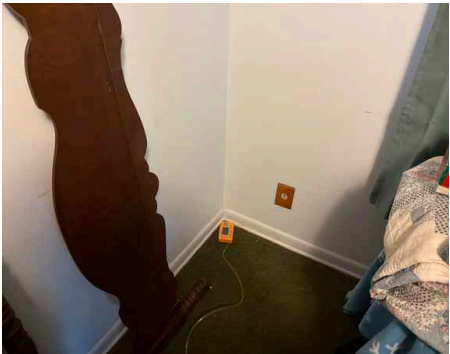
Bedroom: Location in structure

Bedroom
Front, Right

Bedroom: Back-left elevation & photo



Bedroom: Back-right elevation & photo



Bedroom: Front-right elevation & photo



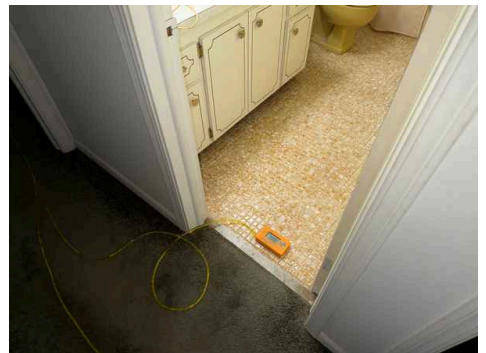
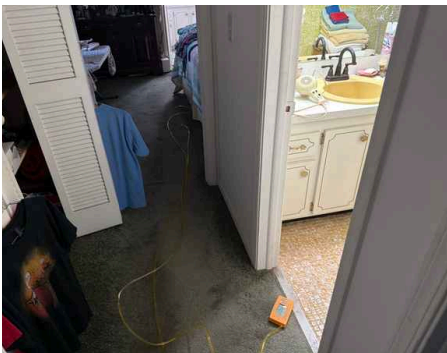
Bedroom: Front-left elevation & photo



Bathroom: Flooring difference factor

Bathroom

-0.4"



Bathroom: Type

Bathroom
Full-Bath

Bathroom: Front shower/bath elevation & photo



Bathroom: Mid-room elevation & photo



Laundry: Mid-room elevation & photo

Garage: Back-left elevation & photo

Garage: Back-right elevation & photo

Garage: Front-right elevation & photo

Garage: Front-left elevation & photo

Limitations

General

PERFORMANCE - ENGINEER'S FOUNDATION EVALUATION PENDING

The Engineer's Foundation Evaluation (to be delivered at a later date) will determine the performance of the foundation by utilizing the visual deficiencies gathered in this report coupled with analytical methods for calculating elevation, deflection, and tilt. Instead of making a statement of performance here, the inspector will rely on the results of the Engineer to ultimately determine the foundation's performance.

General

FURNISHINGS

The property contains furnishings that may prevent some elevations from being gathered at certain locations. Elevations were gathered to the best of the inspector's ability. Furnishings can obstruct the inspectors view and access . Due to liability considerations, the inspector is not permitted to move furnishings to complete an elevation plot.

Laundry

LAUNDRY AREA INACCESSIBLE

The laundry area could not be accessed during the inspection. This limitation prevents a thorough evaluation of laundry equipment, connections, and associated systems in this space.

Garage

FOUNDATION EVALUATION INACCESSIBLE

GARAGE

The engineer's foundation evaluation could not be completed due to inaccessibility of the garage foundation area. This limitation prevents a thorough assessment of foundation condition, structural integrity, and potential issues in this location.





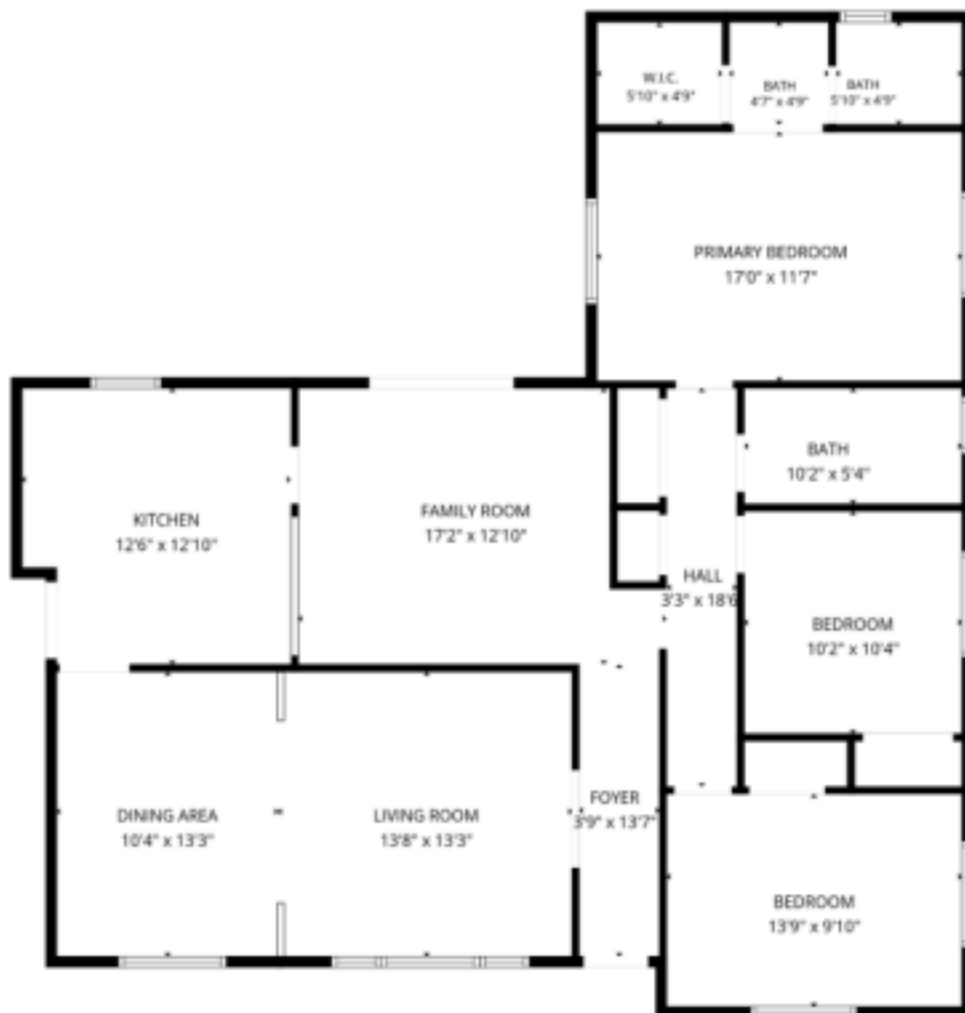
STANDARDS OF PRACTICE



Appendix C

Floorplan Scan

5433 Kennerly Rd, Jacksonville, FL, 32207



FLOOR PLAN CREATED BY CUBICASA APP. MEASUREMENTS DEEMED HIGHLY RELIABLE BUT NOT GUARANTEED.