# APPENDIX G
# DESIGN PROFESSIONAL INSPECTION FORM

RECORD OF THE INSPECTION OF A **COMPONENT OR ELEMENT** BY A NC LICENSED ARCHITECT OR ENGINEER

## Project Information:

| | |
|---|---|
| Residential Single-Family Project: Y ☑ N ☐ | Commercial Project: Y ☐ N ☑ |
| Code Enforcement Project No: | Permit No: SFD2306-0103 |
| Project Name: 405 Mason Drive | Owner: T And T Boys Inc |
| Project Address: 405 Mason Drive, Erwin 28339 | Suite No: |
| Date Inspected: 09/18/2023 | Contractor Name: BVA Builders |
| Component Inspected: Mono-slab prior to concrete placement | |

## Responsible Licensed NC Architect or NC Engineer

| | |
|---|---|
| Name: | W. Shawn Sullivan, P.E. |
| Firm Name: | GTA Associates, Inc. |
| Phone Numbers: | Office: 984-200-2104 Mobile: 984-500-6192 |
| Email Address: | Shawnsullivan@gtaeng.com |
| Mailing Address: | 530 Hinton Pond Road, Suite 104, Knightdale, NC 27545 |

## APPLICABLE CODE:

2018 NCRC

2018 NCBC = 2018 NC Building Code; 2018 NCRC = 2018 NC Residential Code

Describe Element/Component/Type of Inspection: *

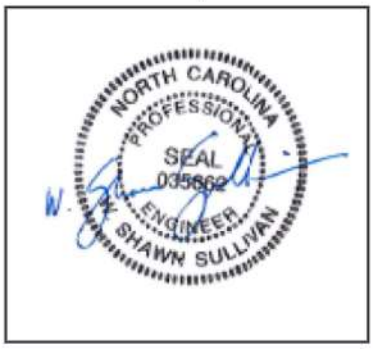
Mono-slab turn-down ftgs, lug ftgs, thickened slab, under code R403.1. Vapor barrier, insulation board.

Soil Bearing Capacity 2,000psf (see attached report).

*(subgrade form/letter may also be required)

## Attestation/Signature:

By signing below, I certify that the component and/or element of the building as identified on this form has been inspected by me or someone under my direct supervision per G.S. 160D-11-6 and is in compliance with the Code or other proposal of the architect or engineer for the project. This inspection is in compliance with all of the requirements of the above referenced code. Attach any additional documents if needed.




W. Shawn Sullivan, P.E. Digitally signed by W. Shawn Sullivan, P.E. Date: 2023.09.21 08:39:40 -04'00'

Licensed Architect or Engineer

**Inspection Department disclaimer:**

Upon the receipt of a signed written document as required by G.S. 160D-11-6, Code Enforcement shall be discharged and released from any liabilities, duties and responsibilities imposed by this article or in common law from any claim arising out of or attributed to the component or element in the construction of the building for which the signed written document was submitted. Be aware that this inspection will be noted in all inspection records including the Certificate of Occupancy or Certificate of Compliance. This inspection does not address any local ordinances or zoning requirements.

**GTA Associates, Inc.**
*Geotechnical and Environmental Consultants*
www.gtaeng.com

530 Hinton Pond Road, Suite 104
Knightdale, NC 27545
(984) 200-2104

# Foundation Subgrade Report

**Date:** 09/18/2023 **Project No.:** 222363x029 **Client:** BVA Enterprise Inc **Subdivision:** N/A
**Lot No.:** N/A **Address:** 405 Mason Drive, Erwin 28339 **Permit No.:** SFD2306-0103

**Foundation Subgrade Excavations For:**

- [x] Monolithic Slab Turn-Down Footings
- [ ] Crawl Space Footings (Walls and Piers)
- [ ] Below Grade Wall Footings
- [ ] Stem-Wall Footings
- [ ] Deck Footings
- [ ] Other:

**Design Bearing Capacity:** 2,000 psf

**Discrepancies Observed?** [ ] Yes [x] No

If yes, details:

Over-Excavation (If applicable):

Location:

Approximate dimensions:

Backfilled with: [ ] No. 57 Stone [ ] Concrete [ ] Other

As requested, GTA Associates, Inc. (GTA) visited the subject project to observe the exposed soil subgrade in open footing excavations, and to test the bearing capacity of soils at, and below, the exposed bottom of footing elevation. Hand-auger borings supplemented with Dynamic Cone Penetrometer (DCP) testing was performed at various locations within the open footing excavations in general accordance with ASTM STP-399. As the hand-auger borings were advanced, DCP tests were conducted at one-foot intervals to a depth of 3-feet below bottom of footing elevation, or prior refusal. Based on the results of GTA visual observations and the testing performed, it is GTA's professional opinion that the soils, at the locations and elevations observed, are capable of supporting a foundation designed utilizing the design bearing pressure outlined above.

Please note, GTA test results are only indicative of soil conditions at the specific GTA test locations and depths explored. GTA hand-auger borings supplemented with Dynamic Cone Penetrometer (DCP) testing on this date, was performed to a maximum depth of 3-feet below bottom of footing elevation. Where deeper fill soils are present, GTA has assumed the fill soils were placed and compacted properly. At the time of our site visit, GTA has not been provided with documentation regarding the placement and compaction of fill soils for the referenced lot.

Foundation observations and soil bearing capacity testing are only valid between rain events. If foundation bearing materials are exposed to inclement weather or disturbed due to construction activity, GTA should be contacted to re-evaluate the foundation bearing materials prior to the placement of concrete.


Shawn Sullivan

Professional Engineer Seal