



January 18, 2021

Mr. David Carter
Dan Ryan Builders – North Carolina, LLC
3131 RDU Center Drive, Suite 120
Morrisville, North Carolina 27560

**Subject: Summary of Projection Repair
Lot No. 14 – (368 Village Bend Drive)
Olde Mill Village Subdivision
Fuquay-Varina, North Carolina
Permit Number: 2008-0066
SUMMIT Project Number: 3241-14R (30951-01)**

Dear Mr. Carter:

On January 18, 2021, SUMMIT Engineering, Laboratory and Testing, P.C. (SUMMIT) was informed that an area of the footing did not pass projection inspection. SUMMIT was requested to provide repair recommendations for the areas where the required projection is not available. Our repair recommendations are listed below.

In all areas of inadequate footing projections, the new footings shall be excavated and poured to match the existing footing depth. The new footing shall be secured to the existing footing with #4 rebar dowels spaced at a maximum of 12 inches on center with a minimum of 2 dowels per footing projection segment. The dowels shall be drilled and epoxied, mid-depth, with Simpson SET epoxy or equivalent. The dowel holes should be drilled perpendicular into the existing concrete and shall not be angled. The dowel hole for #4 rebar should be drilled with a 5/8" concrete bit. The rebar dowels shall have a minimum 3" cover and minimum embedment of 5" into both the new and existing footing. The epoxy shall be placed in a hole that is drilled and thoroughly cleaned per the manufacturer's specifications.

After the holes were drilled SUMMIT was on site to inspect the dowel holes cleanliness and depth. Photographs of the rebar and epoxy application were provided by Mr. Carter. Based on our site observations and the photographs provided, the foundation and projection repairs were in conformance with our recommendations.

SUMMIT appreciates the opportunity to provide our professional services to you on this project. If you have any questions concerning the information in this report or if we can be of further service, please contact us.

Sincerely,
SUMMIT Engineering, Laboratory and Testing, P.C.

Jeff A. Taylor, P.E.
Geotechnical Engineer



Adam D. Perry, E.I.
Staff Professional