

RETAINING WALL CONSTRUCTION DOCUMENTS FOR

# WELLONS RESIDENCE



1290 KEITH HILLS ROAD  
LILLINGTON, NORTH CAROLINA

SCHEDULE OF SPECIAL INSPECTIONS		
IT-4 MODULAR RETAINING WALLS (NCBC SECTION 1704 AND 1807.2.5)		
ITEM	MONITORING	NOTES AND SCOPE
MATERIAL VERIFICATION	PERIODIC	• PERFORM SOIL TESTING OF THE RETAINED, FOUNDATION AND PROPOSED FILL MATERIALS TO DETERMINE IF PROPERTIES MEET ASSUMED VALUES SPECIFIED.
	PERIODIC	• VERIFY BLOCK TYPE, GRID TYPE, DRAINAGE MATERIALS, AND/OR FILTER FABRIC.
FOUNDATIONS	PERIODIC	• PERFORM SOIL TESTING OF FOUNDATION AREA (FOOTING FOR BLOCK AND REINFORCED ZONE) TO VERIFY ADEQUATE BEARING CAPACITY.
	CONTINUOUS	• VERIFY THICKNESS AND WIDTH OF RETAINING WALL LEVELING PAD.
STRUCTURAL FILL	CONTINUOUS	• VERIFY USE OF PROPER SOIL, DENSITIES, MOISTURE CONTENT, AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF STRUCTURAL FILL.
WALL CONSTRUCTION	CONTINUOUS	• VERIFY INSTALLATION OF BLOCK INFILL, DRAINAGE LAYER, DRAIN PIPE, AND DRAIN OUTLETS.
	PERIODIC	• VERIFY BLOCK TO BLOCK AND BLOCK TO GRID CONNECTION METHODS, AND SPECIFIED SETBACK REQUIREMENTS.
	CONTINUOUS	• VERIFY GRID ELEVATION, LENGTH, AND PROPER INSTALLATION.
	PERIODIC	• VERIFY INSTALLATION OF CAP BLOCK AND LOW PERMEABLE SOIL AT TOP OF WALL.

IN ACCORDANCE WITH SECTION 1704 OF THE NORTH CAROLINA BUILDING CODE, RETAINING WALLS WITH A CUMULATIVE VERTICAL RELIEF GREATER THAN 5 FEET IN HEIGHT WITHIN A HORIZONTAL SEPARATION DISTANCE OF 50 FEET OR RETAINING WALLS LESS THAN 5 FEET IN CUMULATIVE VERTICAL RELIEF AND ADJACENT TO STRUCTURES LOCATED CLOSER THAN THE VERTICAL RELIEF REQUIRE SPECIAL INSPECTION TESTING. THE OWNER SHALL ENGAGE A QUALIFIED 3RD PARTY INDEPENDENT TESTING AGENCY TO CONDUCT SPECIAL INSPECTIONS IN ACCORDANCE WITH SECTION 1807.2.5 OF THE NORTH CAROLINA BUILDING CODE FOR THE SITE RETAINING WALL(S) PROVIDED ON THESE PLANS. AFTER CONSTRUCTION, A SUMMARY OF THE SPECIAL INSPECTION TESTING SHALL BE PROVIDED BY THE TESTING AGENCY TO THE BUILDING OFFICIAL AND THE DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE FOR FINAL REVIEW.

## SHEET INDEX

- RW-1.0 TITLE SHEET
- RW-2.0 SITE LAYOUT
- RW-3.0 RETAINING WALL PROFILES
- RW-4.0 ALLAN BLOCK CLASSIC UNIT DETAILS
- RW-5.0 RETAINING WALL SPECIFICATIONS

<b>TITLE SHEET</b>		<b>WELLONS RESIDENCE</b> 1290 KEITH HILLS ROAD LILLINGTON, NORTH CAROLINA MARVEL PROJECT NO. 22-13490	SEAL 	 <b>MARVEL</b> ENGINEERING & CONSULTING PO BOX 1955 GARNER, NORTH CAROLINA 27529 (919) 812-1375 • LICENSE NO. P-1332	SHEET
REV	DATE				DESCRIPTION
ISSUED FOR CONSTRUCTION 3-21-2022 DRAWN BY: BDH DESIGNED BY: BDH REVIEWED BY:			1 OF 5		