

2248 Joel Rd. Carthage, NC 28327 Phone: (910) 701-3070 scott@asmengineering.net License # P-2502

March 24, 2024

- Attn: Mr. Etowski Pride Custom Homes, Inc. 30 McFarland Rd. Pinehurst, NC 28374
- Re: 1204 W. Blackman Rd. Dunn, NC 28334 ASM# 24040

Dear Mr. Etowski,

ASM Engineering, PLLC (ASM) was requested to size the footings at major load points for the above referenced site on March 7, 2024.

The major load points that ASM was requested to design was based on Figure 1.0, specifically at

- 1. FB1-1 End reaction 2
- 2. FB3-1 Both ends
- 3. FB6-1 Both ends

The proposed house is planned to be built with a "slab-on-grade" foundation, and to be poured monolithically. ASM designed the footings based on the IBC Building Code Chapter 16, Table 1607.1. The footings with the required loading was designed as a 3'X3'X1' with (4) #4 rebar each way (Figure 2.0).

On March 11, 2024, footings were dug based on the design by ASM at the specific load points. This letter certifies that the footings were constructed per the minimum design of ASM, based on the minimum requirements for Chapter 4 of the 2018 Residential Building Code,

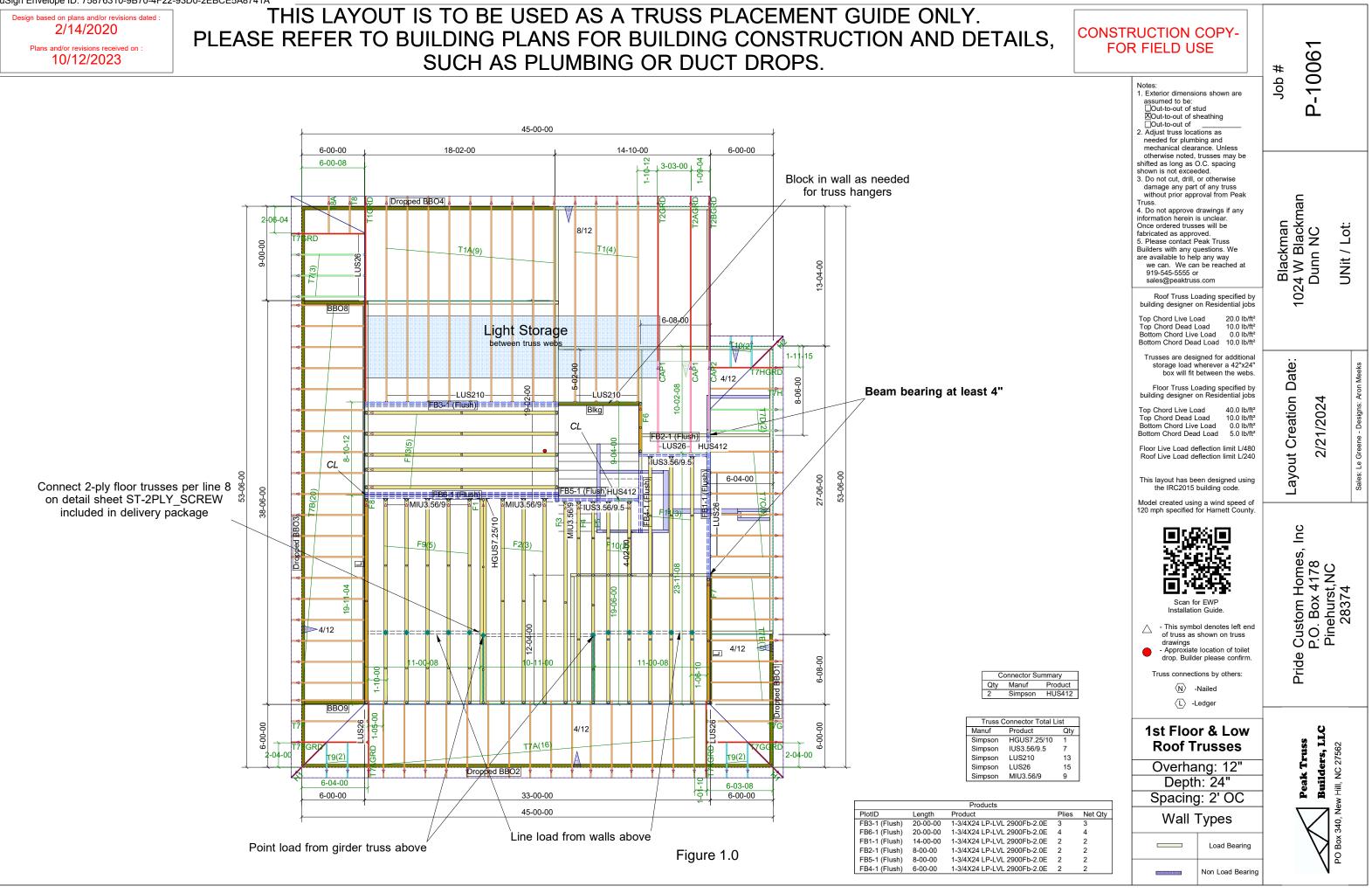
ASM attached pictures of the inspection in the following pages for reference.

Thank you for this opportunity to serve you. Please contact ASM Engineering, PLLC. For any further information.

Sincerely, ~0 1/4 SFAL A. Scott Matthews, PE DocuSigned by: President 3-24-24 ð 14 E0DEE8A764124D1...

2/14/2020 Plans and/or revisions received on

THIS LAYOUT IS TO BE USED AS A TRUSS PLACEMENT GUIDE ONLY. SUCH AS PLUMBING OR DUCT DROPS.

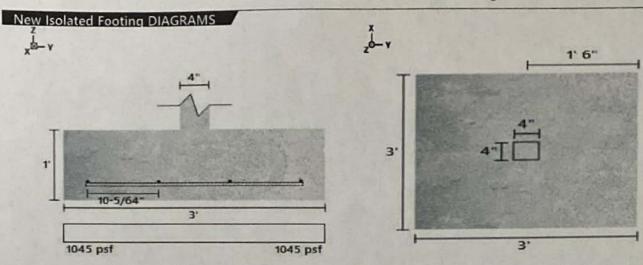


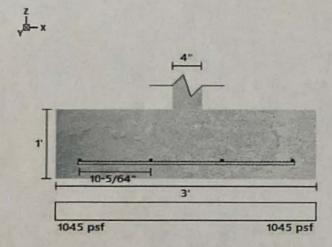
DACC

12				
P	1.5	-	-	1
×т	a	O	е	-

DATE: STRUCALC BUILD: CUSTOMER:	3/11/2024 StruCalc Pro			COMPANY: DESIGNED BY: REVIEWED BY:	ASM Engineering, PLLC Scott Matthews 			
PROJ. ADDRESS:			PF	ROJECT NAME:	1204 W. Blackman Rd			
LEVEL: MEMBER NAME: MEMBER TYPE: MATERIAL:	Main Floor New Isolated Footing ISOLATED FOOTING Concrete			LOADING: CODE: ACI:		ASD 2021 International Building Code ACI 318-19		
3 (ft) X 3	(ft) X 12 (in)		Soil Depth	TOF: 0 (ft)	i i	lot. (4) #4 Long. (4) #4 Sh	ort	
MATERIAL PROPI	RTIES							
FOOTING	Station Print Print							
Width (ft)	Length (ft)	Depth (in)	Volum	e (ft ³) Footing	Weight (lb/ft)	The second second		
3	3	12	9		1305			
CONCRETE								
fc' (psi)	Ec (psi)	Density (lbf/f	t ²) Agg. Di	ia. (in)				
3000	0	145	0.7	'5				
CALCULATION VARIABLE	S					And and a state	1 and	
Bo (in)					2012 2017-13 P	States and the states	10 10 10	
0								
COLUMN								
Width (in)	Length (in)	Material	Offset	X (in) Off	fset Y (in)			
4 SOIL	4	Concrete	0		0			
learing Strength (lbf/ft ²)	Density (lbf/ft3)	Cohesion	Friction	Angle D	epth (ft) Rankin	e Coefficient (Kp)		
2000 REBAR	110	0	30)	0	3		
Bottom Bar Size #	fy (psi)	Es (psi)			Section and the	31 1 2 5 1 F		
4	40000	2.9E+07						
COVER		hed and the					1112	
Top Cover (in. 3	Bottom Cover (in 3	. Side Cover (3	n.					
PASS-FAIL	A COLORED					Constant of the local		
		PASS/FAIL	MAGNITUDE	STRENGTH	LOAD COMBO	CALCULATION TYPE		
	Pressure (lbf/ft ²)	PASS (47.8%)	1045.0	2000.0	D+L	ASD		
	Way Shear X (lbf)	PASS (86.4%)	3862.1	28393.9	1.2D+1.6L+0.5Lr	LRFD		
	Way Shear Y (lbf)	PASS (86.4%)	3862.1	28393.9	1.2D+1.6L+0.5Lr	LRFD		
Tw	o-Way Shear (lbf)	PASS (87.0%)	10459.8	80449.5	1.2D+1.6L+0.5Lr	LRFD		
	Moment X (lbf-ft)	PASS (82.5%)	3543.7	20212.3	1.2D+1.6L+0.5Lr	LRFD		
	Annant V (ILE (4)	PASS (82.5%)	3543.7	20212.3	1.2D+1.6L+0.5Lr	LRFD		
	Moment Y (lbf-ft)	and the second se	11060.0	53040.0	1.2D+1.6L+0.5Lr	LRFD		
	Crushing (lbf)	PASS (77.5%)	11960.0		the second s	and the second se		
	A211	PASS (77.5%) PASS (100.0%)	9.0	9.0	D	LRFD		
LOAD LIST	Crushing (lbf) Compression (ft ²)	PASS (100.0%)	9.0					
LOAD LIST Type	Crushing (lbf) Compression (ft ²) Name	PASS (100.0%)		9.0 Load Start (ft)	D Load End (ft)	LRFD Load Type	Direction	
LOAD LIST	Crushing (lbf) Compression (ft ²)	PASS (100.0%)	9.0				Direction Z Z	







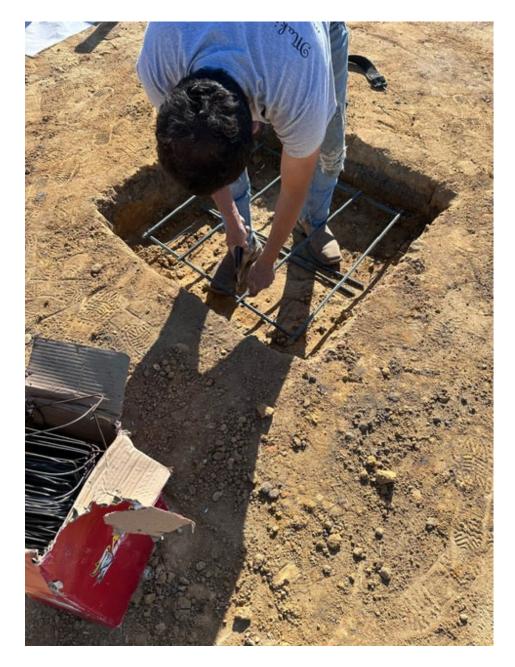


Figure 3.0 Installing footings



Figure 4.0 Depth of footing (12")



Figure 4.0 Installing interior footing.