

ADDRESS : 56 FARRAH-SHEA WAY  
 CONTRACTOR : CUMBERLAND HOMES INC  
 OWNER : BARCO DEVELOPMENT INC  
 PARCEL : 04-0662- - -0024- -22-  
 APPL NUMBER: 16-50039488 CP NEW RESIDENTIAL (SFD)  
 DIRECTIONS : T/S: 08/16/2016 09:20 AM JBROCK ----  
 FARRAH SHEA WAY LOT 18  
 BRIAN KEITH MEADOWS

SUBDIV: BRIAN KEITH MEADOW 25LOTS  
 PHONE : (910) 892-4345  
 PHONE :

**STRUCTURE: 000 000 56X40 3BDR SLAB W/ GARAGE**

FLOOD ZONE : FLOOD ZONE X  
 # BEDROOMS : 3000000.00  
 SEPTIC - EXISTING? : NEW TANK  
 PROPOSED USE : SFD  
 WATER SUPPLY : COUNTY

**PERMIT: CPSF 00 CP \* SFD**

TYP/SQ	REQUESTED COMPLETED	INSP RESULT	DESCRIPTION RESULTS/COMMENTS
B101 01	10/26/16 10/26/16	BS CA	R*BLDG FOOTING / TEMP SVC POLE VRU #: 002889806 T/S: October 26, 2016 08:14 AM BSUTTON ----- per shaun
B101 02	12/02/16 12/02/16	DT AP	R*BLDG FOOTING / TEMP SVC POLE TIME: 17:00 VRU #: 002905875 T/S: 12/01/2016 02:13 PM LBENNETT ----- T/S: 12/02/2016 11:30 AM DETAYLOR -----
A814 01	12/16/16 12/16/16	SB AP	ADDRESS CONFIRMATION TIME: 17:00 VRU #: 002911303 56 FARRAH-SHEA WAY ANGIER 27501 T/S: 12/16/2016 08:36 AM SBENNETT -----
B103 01	12/16/16 12/16/16	BS AP	R*BLDG FOUND & TEMP SVC POLE TIME: 17:00 VRU #: 002911295 T/S: 12/15/2016 09:36 AM JBROCK ----- T/S: December 16, 2016 10:04 AM BSUTTON ----- need a premise for tpole
P309 01	12/28/16 12/28/16	BS AP	R*PLUMB UNDER SLAB TIME: 17:00 VRU #: 002914059 T/S: 12/22/2016 09:47 AM DJOHNSON ----- T/S: December 28, 2016 10:26 AM BSUTTON -----
B111 01	1/05/17 1/05/17	BS AP	R*BLDG SLAB INSP/TEMP SVC POLE TIME: 17:00 VRU #: 002916930 T/S: 01/04/2017 01:57 PM JBROCK ----- T/S: January 05, 2017 10:00 AM BSUTTON -----
R425 01	2/08/17 2/08/17	BS DA	FOUR TRADE ROUGH IN TIME: 17:00 VRU #: 002930394 T/S: 02/07/2017 10:49 AM DJOHNSON ----- T/S: February 08, 2017 01:18 PM BSUTTON ----- 1. Plan calls for 2-16 inch LVL over garage wall. 2-11/7/8 installed. 2. Need structural nail plate at 1/2 bath lav vent at top plate. 3. Improper Uplift at girder truss BGR-2PLY left side. 4. Window missing at bathroom up. 5. Foam seal HVAC ducts top and bottom at second floor chase. OK to side/insulate
R425 02	2/15/17 <u>2/15/17</u>	TI <u>DABS</u>	FOUR TRADE ROUGH IN TIME: 17:00 VRU #: 002933695 T/S: 02/14/2017 02:13 PM JBROCK -----

COMMENTS AND NOTES



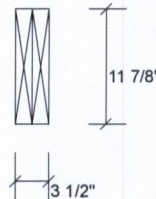
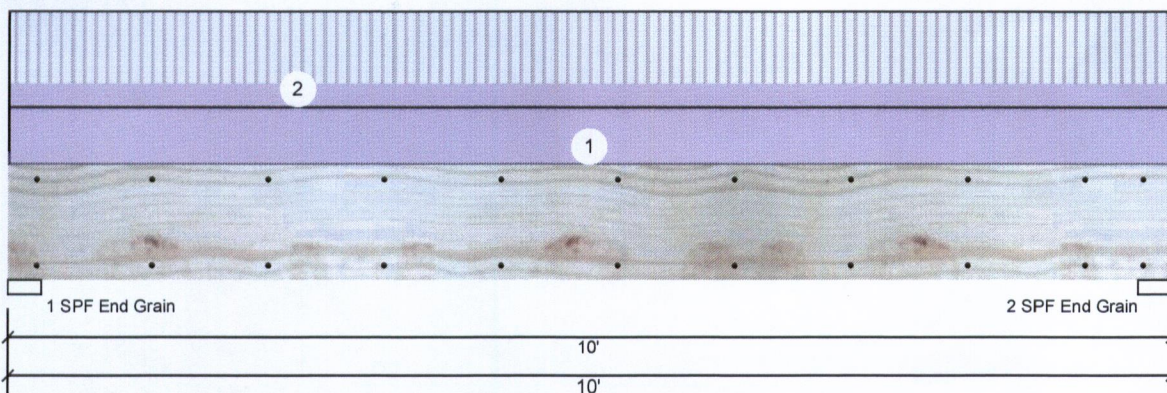
isDesign™

Client: Cumberland Homes  
Project: 18 Brian Keith Meadows / Harnett Co.  
Address: 18 Brian Keith Meadows / Harnett Co.

Date: 2/13/2017  
Designer: Christine Shivy  
Job Name: GDH  
Project #: J1216-5873

**GDH Kerto-S LVL 1.750" X 11.875" 2-Ply - PASSED**

Level: Level



**Member Information**

Type:	Girder	Application:	Floor
Plies:	2	Design Method:	ASD
Moisture Condition:	Dry	Building Code:	IBC 2012
Deflection LL:	480	Load Sharing:	No
Deflection TL:	360	Deck:	Not Checked
Importance:	Normal		
Temperature:	Temp <= 100°F		

**Reactions lb (Uplift)**

Brg	Live	Dead	Snow	Wind	Const
1	1255	1466	0	0	0
2	1255	1466	0	0	0

**Bearings**

Bearing	Length	Cap. React	D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.500"	26%	1466 / 1255	2721	L	D+L
2 - SPF End Grain	3.500"	26%	1466 / 1255	2721	L	D+L

**Analysis Results**

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	6194 ft-lb	5'	19911 ft-lb	0.311 (31%)	D+L	L
Unbraced	6194 ft-lb	5'	9628 ft-lb	0.643 (64%)	D+L	L
Shear	2058 lb	1'2 5/8"	8867 lb	0.232 (23%)	D+L	L
LL Defl inch	0.056 (L/2051)	5'	0.239 (L/480)	0.230 (23%)	L	L
TL Defl inch	0.121 (L/946)	5'	0.318 (L/360)	0.380 (38%)	D+L	L

**Design Notes**

- 1 Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- 2 Refer to last page of calculations for fasteners required for specified loads.
- 3 Girders are designed to be supported on the bottom edge only.
- 4 Top loads must be supported equally by all plies.
- 5 Top unbraced.
- 6 Bottom unbraced.
- 7 Lateral slenderness ratio based on single ply width.

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Uniform			Top	200 PLF	0 PLF	0 PLF	0 PLF	0 PLF	
2	Uniform			Top	84 PLF	251 PLF	0 PLF	0 PLF	0 PLF	
	Self Weight				9 PLF					

**Notes**  
Calculated Structural Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

**Lumber**  
1. Dry service conditions, unless noted otherwise  
2. LVL not to be treated with fire retardant or corrosive chemicals

**Handling & Installation**  
1. LVL beams must not be cut or drilled  
2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals  
3. Damaged Beams must not be used  
4. Design assumes top edge is laterally restrained  
5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

**Manufacturer Info**  
Metsä Wood  
3071 Commerce Dr, Suite E  
Fort Gratiot, MI 48059  
(800) 622-5850  
[www.metsawood.com/us](http://www.metsawood.com/us)  
ICC-ES: ESR-3633

Comtech, Inc.  
1001 S. Reilly Road, Suite #639  
Fayetteville, NC  
USA  
28314  
910-864-TRUS