

RIGHT ELEVATION SCALE: 1'= 1/4"

It is the sole responsibility of the Contractor and/or Builder to conform to all standards, provisions, requirements, methods of construction and uses of materials provided in buildings and/or structures as required by NC Uniform Building Code, Local Agencies and in accordance with good engineering practices. Verify all dimensions prior to construction.









## TYPICAL THICKENED SLAB



PROVIDE CONTROL JOINTS TO INDUCE CRACKING AT SELECTED LOCATIONS -- TROWEL OR CUT JOINTS INTO THE SURFACE OF SLABS TO ABOUT 1/4 OF THE SLAB DEPTH AND AT 20 FT, INTERVALS -- COLD JOINTS CAN ACT AS CONTROL JTS

CONTROL JOINTS

. . . . . .

PENETRATE SLABS SUCH AS STRUCTURAL COLUMNS, WALLS, OR PLUMBING 

OR THAT ARE EXPECTED TO CHANGE TEMPERATURE SIGNIFICANTLY OVER THEIR LIFETIMES ALSO PROVIDE EXPANSION JOINTS TO ISOLATE BUILDING ELEMENTS THAT

PROVIDE EXPANSION JOINTS AT THE EDGES OF SLABS THAT ARE NOT HEATED

WELDED WIRE MESH OR

REBAR REINFORCEMENT

6 MIL POLYETHYLENE

CONCRETE RATED

AND FREE FROM

ORGANIC MATTER

MOISTURE BARRIER

STEM WALL FOUNDATION Detail

 $2 \times 4$  stud wall EXTERIOR SIDING -8" HEADER BLOCK-I COURSE 8" CONCRETE BLOCK ^ I COURSE - v . =||<del>|=|||=</del>|||= ٨ ٨ ^ \ > ` <sup>v</sup> ^ \ > ` <sup>v</sup> ^ \ > ` <sup>v</sup> ^ \ > 8" ٨ ^ > \* ^ > \* ^ > \* ^ > \_\_\_\_\_16" \_\_\_\_⊳

Termite Soil Treatment: Treat entire slab area soil or crawl space surface before vapor barrier is installed and slab is poured with a state approved termiticide. Termiticide should be applied by a licensed and certified pest control professional by the state of North Carolina.

PROVIDE 6 MIL POLY VAPOR BARRIER TO COVER GROUND SURFACE IN CRAWL SPACE ALL ANCHOR BOLTS TO BE 12" LONG, 1/2" DIA. A36 UNO ANCHOR BOLTS SHALL BE SPACE AT A MAX OF 6' OC AND NO MORE THAN I' FROM EA CORNER.

FOOTING WIDTHS ARE BASED ON A LOAD-BEARING SOIL CAPACITY OF 2000 PSI.

FOUNDATION CONCRETE MIX TO HAVE 1-1/2" MAX AGGREGATE SIZE, CONCRETE FILL MIX TO HAVE 1/2" MAX AGGREGATE SIZE.

THE 28 DAY COMPRESSIVE STRENGTH OF ALL FOOTINGS IS 3000 PSI PROVIDE WATER PROOFING AND PERIMETER DRAINS AS REQUIRED.

FOUNDATION NOTES:

ALL FOOTINGS SHALL BEAR ON ORIGINAL UNDISTURBED SOIL.









- 4" MINIMUM CONCRETE SLAB



4" MIN, COMPACTED GRAVEL --- GRAVEL MUST BE CLEAN

SOIL MUST BE SOLID AND FREE OF ORGANIC MATERIAL -- SOME SOILS REQUIRE COMPACTION -- IN TERMITE AREAS THE SOIL MAY REQUIRE CHEMICAL TREATMENT -- CONTRACTOR TO



FOUNDATION PLAN SCALE: 1'= 1/4"



### GENERAL FRAMING NOTES: ALL LUMBER IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE TREATED FRAMING LUMBER SHALL BE SYP \*2 GRADE AND/OR SPRUCE PINE FIR #1 AND/OR #2, KILN DRIED. WHERE PRE-ENGINEERED JOISTS ARE USED, JOIST MANUFACTURER SHALL PROVIDE SHOP DRAWINGS, WHICH BEAR SEAL OF A N.C. ENGINEER. STUDS AND JOISTS SHALL NOT BE CUT TO INSTALL PLUMBING OR WIRING WITHOUT ADDING METAL OR WOOD SIDE PANELS TO STRENGTHEN THE MEMBER TO ITS ORIGINAL CAPACITY. NAIL MULTIPLE MEMBERS WITH 2 ROWS OF 160 NAILS STAGGERED 32" OC AN USE 3-160 NAILS 2" IN AT EACH END. DOUBLE ALL STUDS UNDER ROOF POST DOWNS UNO. NAIL FLOOR JOIGTS TO SILL PLATE WITH 80 TOE NAILS. ALL EXPOSED FRAMING ON PORCHES AND DECKS SHALL BE PRESSURE TREATED. PROVIDE WATERPROOFING AND DRAINS AS REQUIRED. ALL FRAMING TO BE 16" OC UNO. WALL FRAMING DIMENSIONS ARE BASED ON 2 $\times$ 4 Studs uno. Double studs under all headers. LYL'S AND TJI'S TO BE SIZED BY OTHERS EXTERIOR WALLS IN LIVING AREAS ARE 2 × 4

WINDOW SCHEDULE								
SIZE	COUNT	LIBRARY NAME	R.O. WIDTH	R.O. HEIGHT				
2'-0" x 2'-0"	3	Window\Casement	24"	24"				
2'-0" x 3'-0"	3	Window\Single Hung	24"	36"				
2'-8" x 5'-0"	4	Window\Single Hung	32"	60-1/2"				
4'-8" x 3'-0" Twin	1	Window\Single Hung	56"	36"				
2'-8" x 5'-0" Twin	3	Window\Single Hung	64"	60-1/2"				



FLOOR PLAN

SCALE: 1'= 1/4"

AREA SCHEDULE							
NAME	AREA						
Heated	1338 sq ft.						
Covered Rear Porch	98 sq ft.						
Covered Front Porch	138 sq ft.						
Garage	394 sq ft.						









SCALE: 1'= 1/4"

#### ROOF NOTES:

TRUSSES, BRACINGS, BRIDGING AND CONNECTORS ARE TO BE DESIGNED BY THE TRUSS MANUFACTURER.

IDENTIFY LUMBER BY OFFICIAL GRADE MARKINGS.

DO NOT CUT OR REMOVE CHORDS OR OTHER TRUSS MEMBERS. DO NOT NOTCH OR DRILL TRUSS MEMBERS.

WHERE PRE-ENGINEERED ROOF TRUSSES ARE USED, TRUSS MANUFACTURER SHALL PROVIDE SHOP DRAWINGS, WHICH BEAR SEAL OF A N. C. REGISTERED ENGINEER.



ELECTRICAL LEGEND							
ELECTRICAL	COUNT	SYMBOL					
ceiling fan	2						
10" led	6	$\bigcirc$					
7" led	10						
foyer light	1	$\bigcirc$					
dinning room light	1						
coach light	2						
exterior over head light	3	Ô					
flood light	2	QD					
vanity bar light	3	000					
wall sconce		$\overline{\bigcirc}\overline{\bigcirc}$					
pendant light		- total and the second					









REVISIONS								
DATE	BY							
07-13-22	ΤK							



# ROOF TRUSS FRAMING

DRAWING SCALE : NTS

	Customer:				Job Name:	Α				2 Ply	Member		Status:
	Job Name:				Level:	Roof			2.0	) RigidLar	n DF LVL	. 1-3/4	Design
<b>MiTek</b> <sup>®</sup>	Customer F	Ph			Type:	Bivi'i - 122 Beam				x 1	1-7/8		Passed
Illustration Not to S	Scale Pitch:	0/12	Designed	by Single Men	ber Design F	ngine in MiT	ek® St	ructure Version		Report Vers	tion: 2021 03 (	26 07/1	0/2024 07:28
Indistration Not to c	8.7.3.303.Update9.26								9/2024 07.20				
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		1-08-04				16-00-00					1-07-04		
	1					19-03-08					1		
DESIC					179								
Building Code:	IRC 201	8		Design Criteria	Loc	ation	Load C	Combination	LDF	Design	Limit		Result
Design Methodolog	gy: ASD	0	Max P	os. Moment:	9'- 7	7 3/4"	0	) + Lr	1.15	1231 lb ft	18340 lb ft	Pa	issed - 7%
Risk Category:	II (Gene Residen	ral Construction)	Max N	eg. Moment:	17'-	9 3/4"	[	) + Lr	1.15	2039 lb ft	18340 lb ft	Pa	ssed - 11%
Service Condition:	Dry	uai	Max S	near:	16'-3	8 3/8"	[	) + Lr	1.15	694 lb	9241 lb	Pa	ssed - 8%
LL Deflection Limit	:: L/360, (	0.75" (absolute)	Total I	oad (LL) Neg. L	)etl.: 9'-7 Defl: 9'-8	15/16" 3 1/8"	Г	0.6VV 0 + 1 r		0.024"	L/360 L/240	Pas Pas	sed - L/999
I L Deflection Limit	:: L/240,	1.00" (absolute)	SUP	PORT AND F		INFORMAT				0.000	2/2 10	1 do	
Lateral Restraint	Requiremen	ts:		Input	Controlling	Load	DE	Downward	Uplift	Resistanc	e Resistan	се	
Both ends of the m	nember and the	ne outer supports		Bearing Length	Combina	ition	LDF	Reaction	Reaction	n of Membe	er of Suppo	ort	Result
of the member mus	st be fully res	trained or have the	e 1	7-08	0.6D + 0.	.6W	1.60	331 lb		27391 lb	) 22969 I	b F	assed - 1%
Top: 19'- 3 1/2"	n unbraced le Bottom:	ngth: 19'- 3 1/2"	1	7-08	D + Li	r	1.15	2260 lb	-1332 lb	- 22460 lb	-	ьг	lagad 7%
	Dottom		1	1-00-12	0.6D + 0.	.6W	1.60	2209 10	-697 lb	-	- 390471	<b>у</b> г	asseu - 770
Bearing Stress of	f Support Ma	terial:	2	1-00-04	D + L	r	1.15	2356 lb		32156 lb	) 37516 l	b P	'assed - 7%
• 875 psi Wall @	0'- 1 1/2"		2	1-00-04 7-00	0.6D + 0.	.6W .6W	1.60 1.60	359 lh	-711 lb	- 25565 lb	- 21438 ľ	h F	Passed - 2%
875 psi Wall @ 875 psi Wall @	0 17'- 9 3/4 0 17'- 9 3/4"		2	7-00	D + Li	r	1.15	000 10	-1327 lb	-	-	5 1	u350u - 270
• 875 psi Wall @	0 19'- 2"		LOA	DING									
			Туре	Start Loc	End Loc	Source	Fa	ace Dead (D	) L	ive (L) Sr	now (S) Ror	of Live (Lr)	Wind (W)
			Weigh	t 0'	19'- 3 1/2"	Self Weight	T	op 11 lb/ft		-	-	-	-
			Point Point	0'- 1/4" 1'- 7 3/4"	0'- 1/4" 1'- 7 3/4"	B1(Cond01 B1(Cond01	) T ) T	op 58 lb		-	37 lb 25 lb	98 lb 88 lb	32/-217 lb 21/-126 lb
			Point	3'- 7 3/4"	3'- 7 3/4"	B1(Cond01	, ) Т	op 83 lb		-	36 lb	96 lb	31/-188 lb
			Point Point	5'- 7 3/4" 7'- 7 3/4"	5'- 7 3/4" 7'- 7 3/4"	B1(Cond01 B1(Cond01	ד ( ד (	op 80 lb op 81 lb		-	34 lb 34 lb	91 lb 92 lb	28/-174 lb 31/-180 lb
			Point	9'- 7 3/4"	9'- 7 3/4"	B1(Cond01	, т	op 80 lb		-	35 lb	100 lb	28/-190 lb
			Point Point	11'- 7 3/4" 13'- 7 3/4"	11'- 7 3/4" 13'- 7 3/4"	B1(Cond01 B1(Cond01	ד ( ד (	op 81 lb		-	34 lb 34 lb	92 lb 91 lb	31/-176 lb 29/-170 lb
			Point	15'- 7 3/4"	15'- 7 3/4"	B1(Cond01	, т	op 83 lb		-	36 lb	96 lb	31/-184 lb
			Point Point	17'- 7 3/4" 19'- 3 1/4"	17'- 7 3/4" 19'- 3 1/4"	B1(Cond01 B1(Cond01	) T ) T	op 69 lb op 58 lb		-	25 lb 37 lb	88 lb 98 lb	21/-122 lb 33/-213 lb
			UNF	ACTORED R	EACTIONS	_ (()	,						
			ID	Start Loc	End Loc	Sour	се	Dead (D	) L	Live (L) S	now (S) Roo	of Live (Lr)	Wind (W)
			1	0' 0'- 1 1/2"	1'- 8 1/4" 0'- 1 1/2"	W8(i W8(i	19) 19)	1176/-658 -658 lb	lb	- 38	8/-204 lb 11	89/-673 lb 07/-664 lb	282 lb/ -1128 lb -
			==>	1'- 6 3/4"	1'- 6 3/4"	W8(i	19)	1176 lb		-	388 lb 1	082/-9 lb	-
			2	17'- 8 1/4" 17'- 9 3/4"	19'- 3 1/2" 17'- 9 3/4"	W7(i W7(i	12) 12)	1228/-712 1228 lb	2 lb	- 40	6/-223 lb 12 406 lb	22/-708 lb	282 lb/ -1128 lb -
			==>	19'- 2"	19'- 2"	W7(i	, 12)	-712 lb			-223 lb 9	8/-708 lb	-
			DES	GN NOTES									
			• CAL	TION: The ma	ximum net an	alysis reactio	on exce	eds the user-d	efined m	aximum uplift v	alue at one or	r more su	pports.
			The Ana'	dead loads use	ed in the design n has been pe	gn of this me erformed usi	mber w	vere applied to ision loading fr	the struct	ture as projecte al modeled con	ed dead loads	e loads m	av have
	been modified to simplify reporting.												
			defa	ult system spar	cing. The act	tual loads ap	on actu plied to	the member a	re showr	n in the Specifie	ed Loads table	ay unter f e.	
			• Tran	sfer reactions r	nay differ from	n design res	ults as	allowed per built	ilding coo	tes and standa	ard load distrib	ution pra	ctices. provided for
			refe	ence only. Ver	ify that all loa	ds and supp	ort con	ditions are corr	ect.				
			Revi spec	ew all loads an	a reactions to port, anchorag	o ensure that ge for uplift r	the me eaction	s to be specifie	connecto d by othe	r/structure can ers. Installatior	resist adequa n of member a	atery. Unl	ess aiready sories (if
			requ	ired) as per ma	nufacturer's i	nstruction.			-				

L



Job Name: A		2 Ply Member	Status:	
Level:	Roof	2.0 RigidI am DE I VI 1-3/4	Design	
Label:	BM1 - i22	× 44 7/0	Design	
Туре:	Beam	X 11-7/8	Passeu	

• Beam Stability Factor used in the calculation for Allowable Max Pos Moment (CL) = 0.58

#### PLY TO PLY CONNECTION

 Member design assumed proper ply to ply connection by others. Fastener spacing along length of member must not exceed 4 times depth of member. Verify connection between plies according to code specification and follow the manufacturer's installation instruction. Loads assumed to be distributed equally to each ply.