

# House Plan Zone, LLC. www.HPZplans.com Email: Sales@HPZplans.com Fax: 1-800-574-1387

# STANDARD ABBREVIATIONS

@	AT
#	POUND(S)
<u> </u>	
1 PPPOV	
AFFROA.	AFFROAMATELT
BASE.	BASEMENT
B/T	BETWEEN
BIK	BLOCK
	BLOCKING
DLK G	BLOCKING
<u>BD.</u>	BUARD
BRD.	BOARD
В <i>О</i> Т.	BOTTOM
BLDG.	BUILDING
	CARINET
CLG.	CEILING
<u>CLR.</u>	CLEAR
CLOS.	CLOSET
COL.	COLUMN
COIS	COLUMNS
$\frac{10000}{1000}$	CONCRETE
	CONCRETE MASUNKY UNIT
<u>C.U.</u>	CUNDENSORUNIT
<u>CONN</u> .	CONNECTION
CONT.	CONTINUOUS
COVER'S	COVERING
1000000000000000000000000000000000000	
09	URANE STACE
	254 221 211 /2
DECO.	DECORATIVE
DET	DETAIL
DIA.	DIAMETER
DW	DISHWASHER
DBL.	DOUBLE
DF	DOUGLAS FIR
D	DRYER
FA	FACH
ENG.	ENGINEER
<u>FT.</u>	FEET
<u>F.F.L.</u>	FINISHED FLOOR LINE
FIN.	FINISH
FC	FIRE CODE
FIR	FLOOR
ETG	EDOTING
FOUND.	FOUNDATION
FND.	FOUNDATION
FR.	FREEZER
GA.	GAUGE
GALV	GALVANIZED
GYP	GYPSUM
<u>011 .</u>	
ปกอ	
HVAC	HEATING, VENTILATION &
	AIR CONDITIONING
<u>HT.</u>	HEIGHT
<u>HTS.</u>	HEIGHTS
HORIZ.	HORIZONTAL
IN.	INCHES
INCL.	INCLUDE
INSUL	INSULATION
<u></u>	
IT	IOINT
1711	
	IDIGTG

1 –	
LI.	
LIN.	LINEN
MANUE	MANUEACTURER
MANUF.	MANUFACIURER
MAS.	MASONRY
MAX.	MAXIMUM
NTI	METAL
MIL.	METAL
MIN.	MINIMUM
N.I.C.	NUTIN CONTRACT
$\overline{\alpha}$	ONCENTER
010	ONCENTER
OPT.	OPTIONAL
06B	ORIENTED STRAND BOARD
0.5.0.	
015	OWNER TO SELECT
O.T.S	OWNER TO SELECT
ГG	PAGE
PAN.	PANTRY
<b>P</b> I	PLATE
ГЬ.	
F	PLATE
	PLYWOOD
PLYW'D	PLYWOOD
POIX	POLYETHYLENE
<u>251</u>	FOUNDS PER SQUARE INCH
PRE-FAB	PREFABRICATED
RE:	REFERENCE
REF	REFRIGERATOR
	REINDERATOR
REINF.	REINFORCED
R	RESISTANCE
<u> </u>	
K.A.	RETURNAIR
R.A.G.	RETURN AIR GRILLE
PEOID	PEOLIPED
REQU	REQUIRED
	SCREEN
SCR	
SCR.	
SCR. SHLVS.	SHELVES
SCR. SHLVS. SHR.	SHELVES SHOWER
SCR. SHLVS. SHR.	SHELVES SHOWER
SCR. SHLVS. SHR. SHWR.	SHELVES SHOWER SHOWER
SCR. SHLVS. SHR. SHMR. SST.	SHELVES SHOWER SHOWER SIMPSON STRONG TIE
SCR. SHLVS. SHR. SHMR. SST. SP	SHELVES SHOWER SHOWER SIMPSON STRONG TIE SOUTHERN PINE
SCR. SHLVS. SHR. SHWR. SST. SP	SHELVES SHOWER SHOWER SIMPSON STRONG TIE SOUTHERN PINE
SCR. SHLVS. SHR. SHWR. SST. SP SPECS.	SHELVES SHOWER SHOWER SIMPSON STRONG TIE SOUTHERN PINE SPECIFICATIONS
5CR. 5HLV5. 5HR. 5HWR. 55T. 5P 5PEC5. 5Q.	SHELVES SHOWER SHOWER SIMPSON STRONG TIE SOUTHERN PINE SPECIFICATIONS SQUARE
5CR. 5HLV5. 5HR. 5HWR. 55T. 5P 5PEC5. 5Q.	SHELVES SHOWER SHOWER SIMPSON STRONG TIE SOUTHERN PINE SPECIFICATIONS SQUARE
5CR. 5HLV5. 5HR. 5HWR. 55T. 5P 5PEC5. 5Q. 5.F.	SHELVES SHOWER SHOWER SIMPSON STRONG TIE SOUTHERN PINE SPECIFICATIONS SQUARE SQUARE FOOTAGE
5CR. 5HLV5. 5HR. 5HWR. 55T. 5P 5PEC5. 5Q. 5.F. 5TL.	SHELVES SHOWER SHOWER SIMPSON STRONG TIE SOUTHERN PINE SPECIFICATIONS SQUARE SQUARE SQUARE FOOTAGE STEEL
5CR. 5HLV5. 5HR. 5HWR. 55T. 5P 5PEC5. 5Q. 5Q. 5.F. 5TL.	SHELVES SHOWER SHOWER SIMPSON STRONG TIE SOUTHERN PINE SPECIFICATIONS SQUARE SQUARE SQUARE FOOTAGE STEEL
5CR. 5HLV5. 5HR. 5HWR. 55T. 5P 5PEC5. 5Q. 5Q. 5.F. 5TL.	SHELVES SHOWER SHOWER SIMPSON STRONG TIE SOUTHERN PINE SPECIFICATIONS SQUARE SQUARE SQUARE FOOTAGE STEEL
5CR. 5HLV5. 5HR. 5HVR. 55T. 5P 5PEC5. 5Q. 5C. 5TL. THK.	SHELVES SHOWER SHOWER SIMPSON STRONG TIE SOUTHERN PINE SPECIFICATIONS SQUARE SQUARE SQUARE FOOTAGE STEEL THICK
5CR. 5HLV5. 5HR. 5HWR. 55T. 5P 5PEC5. 5Q. 5C. 5C. 5TL. THK. THK.	SHELVES SHOWER SHOWER SIMPSON STRONG TIE SOUTHERN PINE SPECIFICATIONS SQUARE SQUARE SQUARE FOOTAGE STEEL THICK THICKNESS
5CR. 5HLV5. 5HR. 5HWR. 55T. 5P 5PEC5. 5Q. 5C. 5TL. THK. THK. TBD	SHELVES SHOWER SHOWER SIMPSON STRONG TIE SOUTHERN PINE SPECIFICATIONS SQUARE SQUARE SQUARE STEEL THICK THICKNESS TO BE DETERMINED
5CR. 5HLV5. 5HR. 5HWR. 55T. 5P 5PEC5. 5Q. 5.F. 5TL. THK. THK. TBD.	SHELVES SHOWER SHOWER SIMPSON STRONG TIE SOUTHERN PINE SPECIFICATIONS SQUARE SQUARE FOOTAGE STEEL THICK THICKNESS TO BE DETERMINED
5CR. 5HLV5. 5HR. 5HWR. 55T. 5PEC5. 5Q. 5.F. 5TL. THK. THK. TBD. TR.	SHELVES SHOWER SHOWER SIMPSON STRONG TIE SOUTHERN PINE SPECIFICATIONS SQUARE SQUARE SQUARE FOOTAGE STEEL THICK THICKNESS TO BE DETERMINED TRANSOM
5CR. 5HLV5. 5HR. 5HWR. 55T. 5P 5PEC5. 5Q. 5CL. 5TL. THK. THK. TBD. TR. TYP	SHELVES SHOWER SHOWER SIMPSON STRONG TIE SOUTHERN PINE SPECIFICATIONS SQUARE SQUARE SQUARE FOOTAGE STEEL THICK THICKNESS TO BE DETERMINED TRANSOM TYPICAL
5CR. 5HLV5. 5HR. 5HR. 55T. 5P 5PEC5. 5Q. 5C. 5C. 5TL. THK. THK. TBD. TR. TYP.	SHELVES SHOWER SHOWER SIMPSON STRONG TIE SOUTHERN PINE SPECIFICATIONS SQUARE SQUARE SQUARE FOOTAGE STEEL THICK THICKNESS TO BE DETERMINED TRANSOM TYPICAL
5CR. 5HLV5. 5HR. 5HR. 55T. 5P 5Q. 5Q. 5C. 5TL. THK. THK. TBD. TR. TYP.	SHELVES SHOWER SHOWER SIMPSON STRONG TIE SOUTHERN PINE SPECIFICATIONS SQUARE SQUARE SQUARE FOOTAGE STEEL THICK THICKNESS TO BE DETERMINED TRANSOM TYPICAL
5CR. 5HLV5. 5HR. 5HWR. 55T. 5P 5PEC5. 5Q. 5C. 5TL. THK. THK. TBD. TR. TYP. U.T.C.	SHELVES SHOWER SHOWER SIMPSON STRONG TIE SOUTHERN PINE SPECIFICATIONS SQUARE SQUARE SQUARE FOOTAGE STEEL THICK THICKNESS TO BE DETERMINED TRANSOM TYPICAL UNDER THE COUNTER
5CR. 5HLV5. 5HR. 5HWR. 55T. 5P 5PEC5. 5Q. 5CL. 5TL. THK. THK. THK. THK. TYP. U.T.C. UTII	SHELVES SHOWER SHOWER SIMPSON STRONG TIE SOUTHERN PINE SPECIFICATIONS SQUARE SQUARE SQUARE FOOTAGE STEEL THICK THICKNESS TO BE DETERMINED TRANSOM TYPICAL UNDER THE COUNTER UTILITY
5CR. 5HLV5. 5HR. 5HWR. 55T. 5P 5PEC5. 5Q. 5CL. 5TL. THK. THK. THK. TBD. TR. TYP. U.T.C. UTIL.	SHELVES SHOWER SHOWER SIMPSON STRONG TIE SOUTHERN PINE SPECIFICATIONS SQUARE SQUARE SQUARE FOOTAGE STEEL THICK THICKNESS TO BE DETERMINED TRANSOM TYPICAL UNDER THE COUNTER UTILITY
5CR. 5HLV5. 5HR. 5HWR. 55T. 5P 5PECS. 5Q. 5TL. 5TL. THK. THK. TBD. TR. TYP. U.T.C. UTIL.	SHELVES SHOWER SHOWER SIMPSON STRONG TIE SOUTHERN PINE SPECIFICATIONS SQUARE SQUARE SQUARE FOOTAGE STEEL THICK THICKNESS TO BE DETERMINED TRANSOM TYPICAL UNDER THE COUNTER UTILITY
5CR. 5HLVS. 5HR. 5HR. 55T. 5P 5PECS. 5Q. 5C. 5C. 5TL. THK. THK. TBD. TR. TYP. U.T.C. UTIL. VAN.	SHELVES SHOWER SHOWER SIMPSON STRONG TIE SOUTHERN PINE SPECIFICATIONS SQUARE SQUARE SQUARE FOOTAGE STEEL THICK THICKNESS TO BE DETERMINED TRANSOM TYPICAL UNDER THE COUNTER UTILITY VANITY
SCR. SHLVS. SHR. SHR. SST. SP SPECS. SQ. STL. THK. THK. TBD. TR. TYP. U.T.C. UTIL. VAN. VAN. VERT	SHELVES SHOWER SHOWER SIMPSON STRONG TIE SOUTHERN PINE SPECIFICATIONS SQUARE SQUARE SQUARE FOOTAGE STEEL THICK THICKNESS TO BE DETERMINED TRANSOM TYPICAL UNDER THE COUNTER UTILITY VANITY VERTICAL
SCR. SHLVS. SHR. SHR. SST. SP SPECS. SQ. S.F. STL. THK. THK. TBD. TR. TYP. U.T.C. UTIL. VAN. VERT.	SHELVES SHOWER SHOWER SIMPSON STRONG TIE SOUTHERN PINE SPECIFICATIONS SQUARE SQUARE SQUARE FOOTAGE STEEL THICK THICK THICKNESS TO BE DETERMINED TRANSOM TYPICAL UNDER THE COUNTER UTILITY VANITY VERTICAL
5CR. 5HLV5. 5HR. 5HVR. 55T. 5P 5PEC5. 5Q. 5C. 5TL. THK. THK. TBD. TK. TYP. U.T.C. UTIL. VAN. VERT.	SHELVES SHOWER SHOWER SIMPSON STRONG TIE SOUTHERN PINE SPECIFICATIONS SQUARE SQUARE FOOTAGE STEEL THICK THICKNESS TO BE DETERMINED TRANSOM TYPICAL UNDER THE COUNTER UTILITY VANITY VERTICAL
5CR. 5HLVS. 5HR. 5HWR. 55T. 5P 5PECS. 5Q. 5C. 5TL. THK. THK. THK. TBD. TR. TYP. U.T.C. UTIL. VAN. VERT. WH	SHELVES SHOWER SHOWER SIMPSON STRONG TIE SOUTHERN PINE SPECIFICATIONS SQUARE SQUARE SQUARE FOOTAGE STEEL THICK THICKNESS TO BE DETERMINED TRANSOM TYPICAL UNDER THE COUNTER UTILITY VANITY VERTICAL WATER HEATER
SCR.         SHLVS.         SHR.         SHWR.         SST.         SP         SPECS.         SQ.         STL.         THK.         THK.         THK.         TP.         U.T.C.         UTIL.         VAN.         VERT.         WH	SHELVES SHOWER SHOWER SIMPSON STRONG TIE SOUTHERN PINE SPECIFICATIONS SQUARE SQUARE FOOTAGE STEEL THICK THICK THICKNESS TO BE DETERMINED TRANSOM TYPICAL UNDER THE COUNTER UTILITY VANITY VERTICAL WATER HEATER MAGHER
5CR. 5HLVS. 5HR. 5HR. 55T. 5P 5Q. 5Q. 5G. 5G. 5G. 5G. 5G. 5G. 5G. 5G	SHELVES SHOWER SHOWER SIMPSON STRONG TIE SOUTHERN PINE SPECIFICATIONS SQUARE SQUARE FOOTAGE STEEL THICK THICKNESS TO BE DETERMINED TRANSOM TYPICAL UNDER THE COUNTER UTILITY VANITY VERTICAL WATER HEATER WASHER
SCR. SHLVS. SHR. SHR. SST. SP SPECS. SQ. SF. STL. THK. THK. TBD. TR. TYP. U.T.C. UTIL. VAN. VERT. WH W WT.	SHELVES SHOWER SHOWER SIMPSON STRONG TIE SOUTHERN PINE SPECIFICATIONS SQUARE SQUARE SQUARE FOOTAGE STEEL THICK THICK THICKNESS TO BE DETERMINED TRANSOM TYPICAL UNDER THE COUNTER UTILITY VANITY VERTICAL WATER HEATER WASHER WEIGHT
SCR.         SHLVS.         SHR.         SHR.         SHWR.         SST.         SP         SPECS.         SQ.         STL.         THK.         THK.         TBD.         TR.         TYP.         U.T.C.         UTIL.         VAN.         VERT.         WH         WT.         WIN	SHELVES SHOWER SHOWER SIMPSON STRONG TIE SOUTHERN PINE SPECIFICATIONS SQUARE SQUARE FOOTAGE STEEL THICK THICK THICKNESS TO BE DETERMINED TRANSOM TYPICAL UNDER THE COUNTER UTILITY VANITY VERTICAL WATER HEATER WASHER WEIGHT WINDOW
5CR. 5HLVS. 5HR. 5HWR. 55T. 5P 5PECS. 5Q. 5C. 5TL. THK. THK. THK. THK. TBD. TR. TYP. U.T.C. UTIL. VAN. VERT. WH WT. WIN. WIN.	SHELVES SHOWER SHOWER SIMPSON STRONG TIE SOUTHERN PINE SPECIFICATIONS SQUARE SQUARE FOOTAGE STEEL THICK THICKNESS TO BE DETERMINED TRANSOM TYPICAL UNDER THE COUNTER UTILITY VANITY VERTICAL WATER HEATER WASHER WEIGHT WINDOW
5CR. 5HLVS. 5HR. 5HWR. 55T. 5P 5PECS. 5Q. 5TL. THK. THK. THK. THK. THK. TYP. U.T.C. UTIL. VAN. VERT. WH WT. WIN. W.M.	SHELVES SHOWER SHOWER SIMPSON STRONG TIE SOUTHERN PINE SPECIFICATIONS SQUARE SQUARE FOOTAGE STEEL THICK THICKNESS TO BE DETERMINED TRANSOM TYPICAL UNDER THE COUNTER UTILITY VANITY VERTICAL WATER HEATER WASHER WEIGHT WINDOW WIRE MESH
SCR. SHLVS. SHR. SHR. SST. SP SPECS. SQ. SCF. SC. STL. THK. THK. TBD. TR. TYP. U.T.C. UTIL. VAN. VERT. WH W WT. WIN. WIN. W/	SHELVES SHOWER SHOWER SIMPSON STRONG TIE SOUTHERN PINE SPECIFICATIONS SQUARE SQUARE FOOTAGE STEEL THICK THICKNESS TO BE DETERMINED TRANSOM TYPICAL UNDER THE COUNTER UTILITY VANITY VERTICAL WATER HEATER WASHER WEIGHT WINDOW WIRE MESH WITH
SCR. SHLVS. SHR. SHR. SST. SP SPECS. SQ. SF. STL. THK. THK. TBD. TR. TYP. U.T.C. UTIL. VAN. VERT. WH W WT. WIN. W/ W/	SHELVES SHOWER SHOWER SIMPSON STRONG TIE SOUTHERN PINE SPECIFICATIONS SQUARE SQUARE SQUARE FOOTAGE STEEL THICK THICK THICKNESS TO BE DETERMINED TRANSOM TYPICAL UNDER THE COUNTER UTILITY VANITY VERTICAL WATER HEATER WASHER WEIGHT WINDOW WIRE MESH WITH WICOD
SCR. SHLVS. SHR. SHR. SST. SF. SPECS. SQ. SC. SQ. STL. THK. THK. TBD. TR. TYP. U.T.C. UTIL. VAN. VERT. WH WIN. WIN. WIN. WIN. W/ WD.	SHELVES SHOWER SHOWER SIMPSON STRONG TIE SOUTHERN PINE SPECIFICATIONS SQUARE SQUARE FOOTAGE STEEL THICK THICK THICKNESS TO BE DETERMINED TRANSOM TYPICAL UNDER THE COUNTER UTILITY VANITY VERTICAL WATER HEATER WASHER WEIGHT WINDOW WIRE MESH WITH WOOD
SCR. SHLVS. SHR. SHWR. SST. SP SPECS. SQ. SF. STL. THK. THK. TBD. TR. TYP. U.T.C. UTIL. VAN. VERT. WH WT. WIN. WIN. WIN. WJ. WFCM	SHELVES SHOWER SHOWER SIMPSON STRONG TIE SOUTHERN PINE SPECIFICATIONS SQUARE SQUARE FOOTAGE STEEL THICK THICK THICKNESS TO BE DETERMINED TRANSOM TYPICAL UNDER THE COUNTER UTILITY VANITY VERTICAL WATER HEATER WASHER WEIGHT WINDOW WIRE MESH WITH WOOD WOOD FRAME
5CR. 5HLVS. 5HR. 55HR. 55T. 57 57 57 57 57 57 57 57 57 57	SHELVES SHOWER SHOWER SIMPSON STRONG TIE SOUTHERN PINE SPECIFICATIONS SQUARE SQUARE FOOTAGE STEEL THICK THICK THICKNESS TO BE DETERMINED TRANSOM TYPICAL UNDER THE COUNTER UTILITY VANITY VERTICAL WATER HEATER WASHER WEIGHT WINDOW WIRE MESH WITH WOOD WOOD FRAME CONSTRUCTION MANUAL



# **BB-2200**



## **SHEET INDEX:**

- 1 COVER SHEET
- 2 FOUNDATION PLAN
- 3 FLOOR PLANS
- 4 EXTERIOR ELEVATIONS
- 5 EXTERIOR ELEVATIONS
- 6 CROSS SECTION & CABINETS
- 7 ROOF PLANS
- 8 ELECTRICAL PLANS

Date: $05/02/07$
05/02/07
Drawn By:
SHEET NUMBER





1. ALL DIMENSIONS & SITE CONDITIONS TO BE VERIFIED BY 2. ALL FINISHES (INTERIOR & EXTERIOR) TO BE VERIFIED WITH 3. VERIFY ALL DOOR AND WINDOW STYLES AND SIZES WITH OWNER PRIOR TO CONSTRUCTION. MANUFACTURER TO SUPPLY 4. CONTRACTOR TO VERIFY ALL CLEARANCES OF ALL DOORS, WINDOWS AND OTHER ITEMS THAT ARE CRITICAL. PRIOR TO 5. THESE PLANS WERE DESIGNED TO MEET NATIONAL CODES AT THE TIME THEY WERE DRAWN. CONTRACTOR MUST ADAPT PLANS AS REQUIRED TO MEET ALL APPLICABLE CODES AT SITE 6. ALL BEAMS TO BE SIZED BY A LICENSED STRUCTURAL 7. PORCHES, BALCONIES OR RAISED FLOOR SURFACES LOCATED MORE THEN 30 INCHES ABOVE THE FLOOR OR GRADE BELOW SHALL HAVE GUARDS NOT LESS THAN 36 INCHES IN HEIGHT. OPEN SIDES OF STAIRS WITH A TOTAL RISE OF MORE THAN 30 INCHES ABOVE THE FLOOR OR GRADE BELOW SHALL HAVE GUARDS NOT LESS THAN 34 INCHES IN HEIGHT MEASURED LY FROM THE NOSING OF THE TREADS. IRC 2003, R312. 8. PORCHES AND DECKS WHICH ARE ENCLOSED WITH INSECT SCREENING SHALL BE PROVIDED WITH GUARDS WHERE THE WALKING SURFACE IS LOCATED MORE THAN 30 INCHES ABOVI THE FLOOR OR GRADE BELOW. IRC 2003, R312.1 9. APPLIANCES IN ATTICS. ATTICS CONTAINING APPLIANCES

REQUIRING ACCESS SHALL BE PROVIDED WITH AN OPENING AND A CLEAR AND UNOBSTRUCTED PASSAGEWAY LARGE ENOUGH TO ALLOW REMOVAL OF THE LARGEST APPLIANCE, BUT NOT LESS THAN 30 INCHES LONG AND 22 INCHES WIDE AND NOT MORE THAN 20 FEET IN LENGTH WHEN MEASURED ALONG THE CENTERLINE OF THE PASSAGEWAY FROM THE OPENING TO THE APPLIANCE. THE PASSAGEWAY SHALL HAVE CONTINUOUS SOLID FLOORING IN ACCORDANCE WITH IRC 2003 CHAPTER 5 NOT LESS THAN 24 INCHES WIDE. A LEVEL SERVICE SPACE AT LEAST 30 INCHES DEEP AND 30 INCHES WIDE SHALL BE PRESENT ALONG ALL SIDES OF THE APPLIANCE WHERE ACCESS IS REQUIRED. THE CLEAR ACCESS OPENING DIMENSIONS SHALL BE A MINIMUM OF 20 INCHES BY 30 INCHES, WHERE SUCH DIMENSIONS ARE LARGE ENOUGH TO ALLOW REMOVAL OF THE LARGEST APPLIANCE. EXCEPTION: THE PASSAGEWAY AND LEVEL SERVICE SPACE ARE NOT REQUIRED WHERE THE APPLIANCE IS CAPABLE OF BEING SERVICED AND REMOVED THROUGH THE REQUIRED OPENING. IRC 2003, M1305.1.3 **10. ALL SLEEPING ROOMS TO HAVE AN EXTERIOR ACCESS** THROUGH A DOOR OR WINDOW WITH A MINIMUM OF 5.7 SQUARE FEET NET CLEAR OPENING AS PER IRC 2003 R310.1.1 11. ALL RETURN AIR GRILLS ARE NOT TO BE LOCATED WITHIN 10 12. ALL SQUARE FOOTAGE MEASUREMENTS ARE APPROXIMATE

![](_page_2_Picture_10.jpeg)

![](_page_3_Figure_0.jpeg)

![](_page_4_Figure_0.jpeg)

![](_page_5_Figure_0.jpeg)

![](_page_6_Figure_0.jpeg)

RAFTER SPANS TABLE R802.5.1(5) IRC 2003				
RAFTER SPANS FOR SOUTHERN PINE SPECIES (GROUND SNOW LOAD=30psf, CEILING ATTACHED TO RAFTERS, L/Δ=240) DEAD LOAD = 10psf				
SIZE	SPACING (INCHES)	SPANS (MAXIMUM RAFTER SPANS BETWEEN BRACING) (FT IN.)		
ŧ	12.0	8-7		
Z Z	16.0	7-10		
5	19.2	7-4		
	24.0	6-10		
10	12.0	13-6		
× ×	16.0	12-3		
$\sim$	19.2	11-5		
	24.0	10-2		
	12.0	17-10		
$\infty$	16.0	16-2		
	19.2	14-9		
( I	24.0	13-2		
0	12.0	22-3		
1	16.0	19-3		
X	19.2	17-7		
5	24.0	15-9		
2	12.0	XXXXX		
Ţ,	16.0	22-7		
X	19.2	20-7		
5	24.0	18-5		
REFER TO IRC 2003 OR APPLICABLE CODE FOR ADDITIONAL INFORMATION.				

![](_page_6_Figure_3.jpeg)

### **ROOF PLAN NOTES:**

- 3. ALL RAFTERS TO BE SIZED AS PER SPAN CHART.
- 4. REFER TO EXTERIOR ELEVATION FOR OVERHANG LENGTHS.
- 5. CONTRACTOR TO WATERPROOF ALL ROOF INTERSECTIONS AS PER CODE.
- 6. CONTRACTOR TO VERIFY ALL ROOF PITCHES WITH EXTERIOR ELEVATIONS PRIOR TO CONSTRUCTION.

![](_page_7_Figure_0.jpeg)

# **BB-2200 BONUS ELECTRICAL PLAN**

![](_page_7_Figure_2.jpeg)

L\_\_\_\_\_

SYMBOL	DESCRIPTION 110 VOLT OUTLET
	110 VOLT OUTLET
VVP	GROUND FAULT PROTECTED OUTLET
<u> </u>	WEATHERPROOF OUTLET
 	220 VOLT RECEPTACLE
	FLOOR OUTLET (OWNER TO LOCATE)
	OVERHANG MOUNTED FLOODLIGHTS
<b>6</b> 9	WALL MOUNTED FLOODLIGHTS
Ø	RECESSED CEILING FIXTURE
	FLUORESCENT LIGHT
	SMOKE DETECTOR
\$	SWITCH
<b>\$</b> <sub>3</sub>	THREE WAY SWITCH
\$ <sub>4</sub>	FOUR WAY SWITCH
<u>⊅</u> <sub>DM</sub>	DIMMER SWITCH (OWNER TO LOCATE)
 <sup>C5</sup> √	CAT5 NETWORKING JACK (OWNER TO LOCATE)
	TELEPHONE OUTLET (OWNER TO LOCATE)
	TELEVISION OUTLET (OWNER TO LOCATE)
	DOORBELL BUTTON (CONTRACTOR TO LOCATE)
	THERMOSTAT (CONTRACTOR TO LOCATE)
8	CEILING EXHAUST FAN, VENT TO EXTERIOR
	CEILING EXHAUST FAN w/LIGHT, VENT TO EXT.
$\otimes$	AUDIO SPEAKERS
$\overline{\langle \rangle}$	
🔆	CEILING FAN w/LIGHT
	TRACK LIGHTING (OWNER TO LOCATE)
<u> </u>	WALL SCONCE (OWNER TO LOCATE)
	CHANDELIER
	UNDER COUNTER LIGHTING
	EMERGENCY LIGHTING/ EXIT SIGN
ELECTRICA	
1. ALL WOF APPLICABL 2. SMOKE A FOLLOWIN EACH SEPA VICINITY O OF THE DW HABITABLI IS REQUIRE ALARM DE MANNER TI ACTIVATE ALARMS SH UP.	RK SHALL COMPLY WITH ALL CODES JE AT SITE. LARMS SHALL BE INSTALLED IN THE G LOCATIONS: EACH SLEEPING ROOM, OUTSIDE RATE SLEEPING AREA IN THE IMMEDIATE OF THE BEDROOMS, ON EACH ADDITIONAL STORY 'ELLING, INCLUDING BASEMENTS AND E ATTICS. WHEN MORE THAN ONE SMOKE ALARM 2D TO BE INSTALLED WITHIN A DWELLING THE VICES SHALL BE INTERCONNECTED IS SUCH A HAT THE ACTUATION OF ONE ALARM WILL ALL OF THE ALARMS IN THE UNIT. SMOKE HALL BE HARD WIRED WITH A BATTERY BACK
3. CARBON OUTSIDE O IMMEDIATI UNITS WITH INSTALLED GARAGES. 4. A 125 VOI RECEPTACI ACCESSIBL	MONOXIDE ALARMS SHALL BE INSTALLED F EACH SEPARATE SLEEPING AREA IN THE E VICINITY OF THE BEDROOMS IN DWELLING HIN WHICH FUEL-FIRED APPLIANCES ARE AND IN DWELLING UNITS WITH ATTACHED LT, SINGLE PHASE, 15-20 AMPERE RATED LE OUTLET SHALL BE INSTALLED AT AN LE LOCATION FOR THE SERVICING OF HEATING,
AIR CONDI RECEPTACI WITHIN 25 I OUTLET SH THE HVAC	IIONING AND REFRIGERATION EQUIPMENT. THE LE SHALL BE LOCATED ON THE SAME LEVEL AND FEET OF THE EQUIPMENT. THE RECEPTACLE IALL NOT BE CONNECTED TO THE LOAD SIDE OF EQUIPMENT DISCONNECTING MEANS.

![](_page_7_Figure_4.jpeg)

![](_page_7_Figure_5.jpeg)

Φ

### DESIGN LOADS

	LIVE LOAD (PSF)	DEAD LOAD (PSF)	DEFLECTION	
	( )	( )	LL	TL
FLOOR (primary)	40	10	L/360	L/240
FLOOR (secondary)	40	10	L/360	L/240
ATTIC (w/ storage)	20	10	L/240	L/180
ATTIC (no access)	10	5	L/240	L/180
EXTERNAL BALCONY	40	10	L/360	L/240
ROOF	20	10	L/240	L/180
ROOF TRUSS	20	20	L/240	L/180
WIND LOAD	BASED ON 120 MPH (EXPOSURE B)			
SEISMIC	BASED ON SEISMIC ZONES A, B & C			

STRUCTURAL NOTES:

- ALL CONSTRUCTION SHALL CONFORM TO THE LATEST REQUIREMENTS OF "NORTH CAROLINA STATE 2018 RESIDENTIAL BUILDING CODE", IN
- ADDITION TO ALL LOCAL CODES AND REGULATIONS. IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY ALL DIMENSIONS
- AND SQUARE FOOTAGE PRIOR TO CONSTRUCTION. TYNDALL ENGINEERING & DESIGN, PA IS NOT RESPONSIBLE FOR DIMENSIONS AND SQUARE FOOTAGE ERRORS ONCE CONSTRUCTION BEGINS. 3) ALL LUMBER SHALL BE SYP #2 (UNO)
- ALL LVL LUMBER TO BE 1.75" WIDE NOMINAL EACH SINGLE MEMBER AND Fb = 2600 PSI, E = 1.9M PSI
- (I.E. iLEVEL MICROLAM) ALL LSL LUMBER IS TO BE 1.55E (Fb = 2325 PSI)
- ALL LOAD BEARING EXTERIOR WINDOW HEADERS ARE TO BE (2) 2x10 w/ (1) 2x4 JACK STUD (U.N.O.) AND KING STUDS PER TABLE R602.7.5, AND TOGETHER w/ (2) 10d NAILS @ 8" O.C., PROVIDED THAT THE TOP OF THE WINDOW HEIGHT IS 6'-8", MINIMUM BOTTOM OF THE WINDOW HEIGHT IS 1'-6". OTHERWISE REFER TO TABLES R602.7(1) AND R602.7(2).
- 5) ALL INTERIOR LOAD BEARING HEADERS TO BE (2) 2x10 (U.N.O.) REFER TO TABLES R602.7(1) AND R602.7(2) FOR JACK STUD REQUIREMENTS FOR HEADER SPANS FOR INTERIOR AND EXTERIOR LOAD CONDITIONS (UNO)
- 6) REFER TO 2018 NC BUILDING CODE SECTION R602 FOR CONSTRUCTION OF ALL WALLS OVER 10'-0" IN HEIGHT.
   7) ALL STRUCTURAL STEEL SHALL BE ASTM A992 GRADE 50
- Fy = 50 KSI MIN. (UNO)
- 8) ALL EXTERIOR LUMBER TO BE #2 SYP PT
- 9) ALL CONCRETE, fc = 3000 PSI MIN.
- 10) PRESUMPTIVE BEARING CAPACITY = 2000 PSF
  11) 1/2"Ø ANCHOR BOLTS SPACED AT MAXIMUM OF 6'-0" O.C. AND NOT MORE THAN 12" FROM THE CORNER. THERE SHALL BE A MINIMUM OF (2) BOLTS PER PLATE SECTION. ANCHOR BOLTS SHALL BE SPACED AT 3'-0" O.C. FOR BASEMENTS. ANCHOR BOLT SHALL EXTEND 7" INTO CONCRETE OR MASONRY.
- PSL COLUMNS DESIGNED WITH MAX. HEIGHT OF 9'-0" (UNO)
   PROVIDE A MINIMUM OF 500# UPLIFT & LATERAL CONNECTION AT TOP
- AND BOTTOM OF PORCH COLUMNS. (U.N.O.)
  PROVIDE CONTINUOUS SHEATHING PER SECTION 602.10.4 OF THE 2018 IRC.
- 15) MAXIMUM MASONRY PIER HEIGHT SHALL NOT EXCEED FOUR TIMES ITS LEAST HORIZONTAL DIMENSION.
- 16) UPLIFT LOADS GREATER THAN 500# SHALL BE CONTINUOUSLY ANCHORED TO THE FOUNDATION.
- 17) METAL HANGERS SHALL BE SIMPSON OR APPROVED EQUAL.

![](_page_8_Figure_20.jpeg)

Z

	*Engineers seal does no means, methods, techr procedures or safety p *Any deviations or disc to be brought to the in Tyndall Engineering & interpret that all dime recommendations, etc. presented in these deemed acceptable on the second of t	t include construction igues, sequences, recaution. repancies on plans are imediate attention of 2 Design, P.A. Failure to 1 Engineering & Design, cuments carefully. 2 Design, P.A. Failure to 1 Engineering & Design, cuments were to construction begins.	
	client SOUTHEASTERN INTERIORS	Plan: BYRD RESIDENCE	
	FOUNDATION PLAN		
	Project #:         2101-01         Date:         2/23/202         Engineered By         AM         DWG. Checke         PAT         Scale:         SEE PL         REVIS         1         2         3         4	0252B 22 E AN SIONS Remarks	

\*NOTE: SECURE 4-PLY W/ 1/2"Ø THRU-BOLTS @ 24" O.C.

# **FOUNDATION PLAN**

1/4" = 1'-0"

### DESIGN LOADS

	LIVE LOAD (PSF)	DEAD LOAD (PSF)	DEFLE	CTION
	(* = * /	( )	LL	TL
FLOOR (primary)	40	10	L/360	L/240
FLOOR (secondary)	40	10	L/360	L/240
ATTIC (w/ storage)	20	10	L/240	L/180
ATTIC (no access)	10	5	L/240	L/180
EXTERNAL BALCONY	40	10	L/360	L/240
ROOF	20	10	L/240	L/180
ROOF TRUSS	20	20	L/240	L/180
WIND LOAD	BASED ON 120 MPH (EXPOSURE B)			
SEISMIC	BASED ON SEISMIC ZONES A, B & C			

BWL 1

BWL 2

\_\_\_\_\_

### STRUCTURAL NOTES:

- ALL CONSTRUCTION SHALL CONFORM TO THE LATEST REQUIREMENTS OF "NORTH CAROLINA STATE 2018 RESIDENTIAL BUILDING CODE", IN
- ADDITION TO ALL LOCAL CODES AND REGULATIONS. IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND SQUARE FOOTAGE PRIOR TO CONSTRUCTION. TYNDALL
- ENGINEERING & DESIGN, PA IS NOT RESPONSIBLE FOR DIMENSIONS AND SQUARE FOOTAGE ERRORS ONCE CONSTRUCTION BEGINS. 3) ALL LUMBER SHALL BE SYP #2 (UNO)
- ALL LVL LUMBER TO BE 1.75" WIDE NOMINAL EACH SINGLE MEMBER AND Fb = 2600 PSI, E = 1.9M PSI (I.E. iLEVEL MICROLAM)
- ALL LSL LUMBER IS TO BE 1.55E (Fb = 2325 PSI)
- 4) ALL LOAD BEARING EXTERIOR WINDOW HEADERS ARE TO BE (2) 2x10 w/ (1) 2x4 JACK STUD (U.N.O.) AND KING STUDS PER TABLE R602.7.5, AND TOGETHER w/ (2) 10d NAILS @ 8" O.C., PROVIDED THAT THE TOP OF THE WINDOW HEIGHT IS 6'-8", MINIMUM BOTTOM OF THE WINDOW HEIGHT IS 1'-6". OTHERWISE REFER TO TABLES R602.7(1) AND R602.7(2).
- 5) ALL INTERIOR LOAD BEARING HEADERS TO BE (2) 2x10 (U.N.O.) REFER TO TABLES R602.7(1) AND R602.7(2) FOR JACK STUD REQUIREMENTS FOR HEADER SPANS FOR INTERIOR AND EXTERIOR LOAD CONDITIONS (UNO)
- REFER TO 2018 NC BUILDING CODE SECTION R602 FOR CONSTRUCTION OF ALL WALLS OVER 10'-0" IN HEIGHT. ALL STRUCTURAL STEEL SHALL BE ASTM A992 GRADE 50
- Fy = 50 KSI MIN. (UNO)
- ALL EXTERIOR LUMBER TO BE #2 SYP PT
- ALL CONCRETE, fc = 3000 PSI MIN. PRESUMPTIVE BEARING CAPACITY = 2000 PSF 10)
- 11) 1/2"Ø ANCHOR BOLTS SPACED AT MAXIMUM OF 6'-0" O.C. AND NOT MORE THAN 12" FROM THE CORNER. THERE SHALL BE A MINIMUM OF (2) BOLTS PER PLATE SECTION. ANCHOR BOLTS SHALL BE SPACED AT 3'-0" O.C. FOR BASEMENTS. ANCHOR BOLT SHALL EXTEND 7" INTO CONCRETE OR MASONRY.
- 12) PSL COLUMNS DESIGNED WITH MAX. HEIGHT OF 9'-0" (UNO) 13) PROVIDE A MINIMUM OF 500# UPLIFT & LATERAL CONNECTION AT TOP
- AND BOTTOM OF PORCH COLUMNS. (U.N.O.) 14) PROVIDE CONTINUOUS SHEATHING PER SECTION 602.10.4 OF THE 2018
- IRC. 15) MAXIMUM MASONRY PIER HEIGHT SHALL NOT EXCEED FOUR TIMES ITS LEAST HORIZONTAL DIMENSION.
- 16) UPLIFT LOADS GREATER THAN 500# SHALL BE CONTINUOUSLY
- ANCHORED TO THE FOUNDATION. 17) METAL HANGERS SHALL BE SIMPSON OR APPROVED EQUAL.

### STRUCTURAL SHEATHING NOTES

PM

2:41

- 1) DESIGNED FOR SEISMIC ZONE A-C AND WIND SPEEDS OF 120 MPH OR
- LESS. 2) WALLS SHALL BE BRACED IN ACCORDANCE WITH SECTION R602.10 OF
- THE 2018 NCRC. 3) BRACING REQUIREMENTS SHALL BE PER TABLE R602.10.3.
- REFER TO SECTION R602.10.4 FOR LOAD PATH DETAILS INCLUDING CONNECTIONS & SUPPORT OF BRACED WALL PANELS.
- $\langle 1 \rangle$  REFERENCE FIGURE R602.10.4.3 OF THE 2018 NCRC.
- 4) INTERIOR BRACED WALL PANELS (BWP) INDICATED SHALL BE SHEATHED IN ACCORDANCE WITH THE GB METHOD OR WSP METHOD AS PRESCRIBED IN SECTION R602.10.1 (UNO)
- 2 1/2" GYPSUM BOARD (GB) MINIMUM LENGTH OF 8'-0" / (ISOLATED PANELS) OR 4'-0" (CONTINUOUS SHEATHING). SECURE w/ 5d COOLER NAILS (OR EQUAL PER TABLE R702.3.5) SPACED @ 7" O.C. AT PANEL EDGES, INCLUDING TOP AND BOTTOM PLATES & 7" O.C. AT INTERMEDIATE SUPPORTS
- 3/8" WOOD STRUCTURAL PANEL (WSP) SECURE w/ 6d COMMON / NAILS SPACED AT 6" O.C. AT PANEL EDGES AND 12" O.C. AT INTERMEDIATE SUPPORTS
- 5) EXTERIOR BRACED WALL PANELS (BWP) SHALL BE CONSTRUCTED IN ACCORDANCE WITH CS-WSP METHOD AS PRESCRIBED IN SECTION R602.10.3 (UNO)
- 6) ALL SHEATHABLE SURFACES OF EXTERIOR WALLS (INCLUDING AREAS ABOVE AND BELOW OPENINGS AND GABLE END WALLS) SHALL BE CONTINUOUSLY SHEATHED WITH WOOD STRUCTURAL PANEL (WSP) SHEATHING WITH A MINIMUM THICKNESS OF 3/8". SHEATHING SHALL BE SECURED WITH MINIMUM 6d COMMON NAILS SPACED AT 6" O.C. AT PANEL EDGES AND SPACED AT 12" O.C. AT INTERMEDIATE SUPPORTS.
- 7) MINIMUM BRACED WALL PANEL LENGTHS WITH CS-WSP METHOD SHALL BE AS FOLLOWS: - 24" ADJACENT TO OPENINGS NOT MORE THAN
  - 67% OF WALL HEIGHT - 30" ADJACENT TO OPENINGS GREATER THAN
  - 67% AND LESS THAN 85% OF WALL HEIGHT. - 48" FOR OPENINGS GREATER THAN 85% OF
- $\langle 4 \rangle$  SHEATH INTERIOR & EXTERIOR

WALL HEIGHT

8) FOR CS-WSP METHOD, A MINIMUM 24" BRACED WALL PANEL CORNER RETURN SHALL BE PROVIDED AT BOTH ENDS OF A BRACED WALL LINE IN ACCORDANCE WITH FIGURE R602.10.3(4). IN LIEU OF A CORNER RETURN, EITHER A MIN. 48" BRACED WALL PANEL SHALL BE PROVIDED AT THE CORNER OR A HOLD-DOWN DEVICE WITH A MINIMUM UPLIFT DESIGN VALUE OF 800# SHALL BE FASTENED TO THE EDGE OF THE BRACED WALL PANEL CLOSEST TO THE CORNER AND TO THE FOUNDATION OR FRAMING BELOW.

5 MINIMUM 800# HOLD-DOWN DEVICE

![](_page_9_Figure_37.jpeg)

![](_page_9_Figure_38.jpeg)

*Engineers seal does not include construction means, methods, techniques, sequences, procedures or safety precaution. *Any deviations or discrepancies on plans are to be brought to the immediate attention of Tyndall Engineering & Design, P.A. Failure to do so will void Tyndall Engineering & Design, P.A. Iability. *Please review these documents carefully. Tyndall Engineering & Design, P.A. will interpret that all dimensions, recommendations, etc. presented in these documents were deemed acceptable once construction begins.		
TYNDALL ENGINEERING & DESIGN, P.A.	+ 919 778-1200 = ± 919 778-1200 = ± 919 778 9688 250 Shipwesh Drive = Garner = North Carolina = 27529 www.tyndallengineering.com	
client SOUTHEASTERN INTERIORS	Pian: BYRD RESIDENCE	
1ST FLOOR HEADER 2ND FLOOR FRAMING		
Project #:         2101-010252B         Date:         2/23/2022         Engineered By:         AM         DWG. Checked By:         PAT         SEE PLAN         REVISIONS         No.       Date:         REVISIONS         1         2         3         4		
<u>Sheet Number</u> S2 2 of 7		

BWL 1 \_\_\_\_\_

BWL 3

BWL 2

\_\_\_\_ \_\_ \_\_\_

# FIRST FLOOR PLAN

1/4" = 1'-0"

### DESIGN LOADS

	LIVE LOAD (PSF)	DEAD LOAD (PSF)	DEFLE	CTION
	· · · ·	( )	LL	TL
FLOOR (primary)	40	10	L/360	L/240
FLOOR (secondary)	40	10	L/360	L/240
ATTIC (w/ storage)	20	10	L/240	L/180
ATTIC (no access)	10	5	L/240	L/180
EXTERNAL BALCONY	40	10	L/360	L/240
ROOF	20	10	L/240	L/180
ROOF TRUSS	20	20	L/240	L/180
WIND LOAD	BASED ON 120 MPH (EXPOSURE B)			
SEISMIC	BASED ON SEISMIC ZONES A, B & C			

STRUCTURAL NOTES:

ALL CONSTRUCTION SHALL CONFORM TO THE LATEST REQUIREMENTS OF "NORTH CAROLINA STATE 2018 RESIDENTIAL BUILDING CODE", IN

3SC

- ADDITION TO ALL LOCAL CODES AND REGULATIONS. 2) IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND SQUARE FOOTAGE PRIOR TO CONSTRUCTION. TYNDALL
- ENGINEERING & DESIGN, PA IS NOT RESPONSIBLE FOR DIMENSIONS AND SQUARE FOOTAGE ERRORS ONCE CONSTRUCTION BEGINS. 3) ALL LUMBER SHALL BE SYP #2 (UNO)
- ALL LVL LUMBER TO BE 1.75" WIDE NOMINAL EACH SINGLE MEMBER AND Fb = 2600 PSI, E = 1.9M PSI
- (I.E. iLEVEL MICROLAM) ALL LSL LUMBER IS TO BE 1.55E (Fb = 2325 PSI)
- 4) ALL LOAD BEARING EXTERIOR WINDOW HEADERS ARE TO BE (2) 2x10 w/ (1) 2x4 JACK STUD (U.N.O.) AND KING STUDS PER TABLE R602.7.5, AND TOGETHER w/ (2) 10d NAILS @ 8" O.C., PROVIDED THAT THE TOP OF THE WINDOW HEIGHT IS 6'-8", MINIMUM BOTTOM OF THE WINDOW HEIGHT IS 1'-6". OTHERWISE REFER TO TABLES R602.7(1) AND R602.7(2).
- 5) ALL INTERIOR LOAD BEARING HEADERS TO BE (2) 2x10 (U.N.O.) REFER TO TABLES R602.7(1) AND R602.7(2) FOR JACK STUD REQUIREMENTS FOR HEADER SPANS FOR INTERIOR AND EXTERIOR LOAD CONDITIONS (UNO)
- 6) REFER TO 2018 NC BUILDING CODE SECTION R602 FOR CONSTRUCTION OF ALL WALLS OVER 10'-0" IN HEIGHT.
- 7) ALL STRUCTURAL STEEL SHALL BE ASTM A992 GRADE 50 Fy = 50 KSI MIN. (UNO)
- ALL EXTERIOR LUMBER TO BE #2 SYP PT 8)
- ALL CONCRETE, fc = 3000 PSI MIN.
- 10) PRESUMPTIVE BEARING CAPACITY = 2000 PSF 11) 1/2"Ø ANCHOR BOLTS SPACED AT MAXIMUM OF 6'-0" O.C. AND NOT MORE THAN 12" FROM THE CORNER. THERE SHALL BE A MINIMUM OF (2) BOLTS PER PLATE SECTION. ANCHOR BOLTS SHALL BE SPACED AT 3'-0" O.C. FOR BASEMENTS. ANCHOR BOLT SHALL EXTEND 7" INTO CONCRETE OR MASONRY.
- 12) PSL COLUMNS DESIGNED WITH MAX. HEIGHT OF 9'-0" (UNO) 13) PROVIDE A MINIMUM OF 500# UPLIFT & LATERAL CONNECTION AT TOP
- AND BOTTOM OF PORCH COLUMNS. (U.N.O.) 14) PROVIDE CONTINUOUS SHEATHING PER SECTION 602.10.4 OF THE 2018
- IRC. 15) MAXIMUM MASONRY PIER HEIGHT SHALL NOT EXCEED FOUR TIMES ITS LEAST HORIZONTAL DIMENSION.
- 16) UPLIFT LOADS GREATER THAN 500# SHALL BE CONTINUOUSLY
- ANCHORED TO THE FOUNDATION. 17) METAL HANGERS SHALL BE SIMPSON OR APPROVED EQUAL.

![](_page_10_Figure_21.jpeg)

*Engineers seal does not include construction means, methods, techniques, sequences, procedures or safety precaution. *Any deviations or discrepancies on plans are to be brought to the immediate attention of Tyndall Engineering & Design, P.A. Failure to do so will void Tyndall Engineering & Design, P.A. Isability. *Please review these documents carefully. Tyndall Engineering & Design, P.A. will interpret that all dimensions, recommendations, etc. presented in these documents were deemed acceptable once construction begins.		
TYNDALL ENGINEERING & DESIGN, P.A.	≠ 919 773-1200 = # 919 773-9688 250 Shipwash Orive = Garner = North Carolina = 27829 www.tyndallanginaering.com	
client: SOUTHEASTERN INTERIORS	Plan: BYRD RESIDENCE	
2ND FLOOR HEADER 2ND FLR. CLG. FRAMING		
Project #:         2101-010252B         Date:         2/23/2022         Engineered By:         AM         DWG. Checked By:         PAT         Scale:         SEE PLAN         REVISIONS         No.       Date:         A		
Image: system     Image: system       Image: system     I		

## SECOND FLOOR PLAN

1/4" = 1'-0"

![](_page_11_Figure_0.jpeg)

ame: z:\

*Engineers seal does not include construction means, methods, techniques, sequences, procedures or safety precaution. *Any deviations or discrepancies on plans are to be brought to the immediate attention of Tyndall Engineering & Design, P.A. Failure to do so will void Tyndall Engineering & Design, P.A. liability. *Please review these documents carefully. Tyndall Engineering & Design, P.A. will interpret that all dimensions, recommendations, etc. presented in these documents were deemed acceptable once construction begins.			
	L'INDALL Engineering & design, p.a.	7 919 772-1200 = r 919 772-1200 = r 919 772 9688 256 Shipwesh Drive = Gerner = North Cerpline = 27529 www.tyndellengineering.com	
Client:	SOUTHEASTERN INTERIORS	Plan: BYRD RESIDENCE	
	ROOF PLAN		
Project #:         2101-010252B         Date:         2/23/2022         Engineered By:         AM         DWG. Checked By:         PAT         Scale:         SEE PLAN         No.       Date:         Rewarks         1         2         3         4			
<b>S4</b> 4 of 7			

**ROOF PLAN** 1/4" = 1'-0"

CO	DDE", IN ADDITION TO A	LL LUCAL CODE	S AND REGULATIONS	S.									
DES	SIGN LOADS:											ALT	=
				LIVE I (PS	LOAD D SF)	EAD LOAD (PSF)	DEFLEC	TION	_			CANT CJ CMU	=
		ALL ATTIC (w/	FLOORS walk up stairs)	4	0	10 10	L/360 L/360	L/240 L/240				COL CONC CONT	= = =
		ATTIC (pul ATTIC	l down access) (no access)	2	0	10 5	L/240 L/240	L/180 L/180				CT DBL	=
		EXTERN/ R	AL BALCONY ROOF	2	0	10 10 20	L/360 L/240	L/240 L/180				DJ DJ DR	=
		WIN	F TRUSS D LOAD	2	U B	20 ASED ON 120 MPH (E	L/240	L/180	_			EA EE FJ	= = =
		SE	EISMIC			SEISMIC ZONES	A, B & C					FND FTG	=
MIN	NIMUM ALLOWABLE SC	DIL BEARING PRE	SSURE = 2000 PSF									HORIZ	=
CO UNI	NCRETE SHALL HAVE	A MINIMUM 28 DA /ISE. (U.N.O.)	AY COMPRESSIVE ST	TRENGTH OF 300	00 PSI AND A MA	KIMUM SLUMP OF FI	VE INCHES					MANU	F =
MA BR/	XIMUM DEPTH OF UNE ACING. REFER TO SEC	ALANCED FILL A	GAINST FOUNDATIO 18 NC BUILDING COI	N WALLS TO BE DE FOR BACKFIL	LESS THAN 4'-0" L LIMITATIONS F	WITHOUT USING SU BASED ON WALL HEI	IFFICIENT WALL GHT, WALL						
THI	IICKNESS, SOIL TYPE, A	AND UNBALANCE	D BACKFILL HEIGHT	. ON 2x10) UNO									
ALL	L FRAMING LUMBER EX L LVL LUMBER TO BE 1	XPOSED TO THE .75" WIDE NOMIN	ELEMENTS SHALL B	E TREATED MAT	ERIAL. 2600 PSI, E = 1.9	M PSI (U.N.O.)						1)	MAXIMUM HEI
ALL ALL	L LSL LUMBER TO BE 3	3.5" WIDE NOMINA 3.5" WIDE NOMINA	AL EACH SINGLE MEI AL EACH SINGLE MEI	MBER AND Fb = 2 MBER AND Fb =	2325 PSI, E = 1.61 2400 PSI, E = 1.8	M PSI (U.N.O.) M PSI (U.N.O.)							POST S
ALL REG	L LOAD BEARING EXTE	RIOR HEADERS S ADER SPANS FOF	SHALL BE AT (2) 2x10 R INTERIOR AND EXT	0. (U.N.O.) REFER	R TO TABLE R602 ONDITIONS UNLE	7(1) & (2) FOR JACK SS SPECIFICALLY N	STUD OTED ON PLANS.						4 x 4
ALL ALL	L STRUCTURAL STEEL	W-SHAPES (I-BE/ TES, AND C-CHAN	AMS) SHALL BE AST INELS SHALL BE AS	M A992 GRADE 5 TM A36.	50.								6 x 6
ALL STF	L STEEL PIPE SHALL B	E ASTM A53 GRAI SUPPORTED AT F	DE B. EACH END WITH A M	IINIMUM BEARIN	G LENGTH OF 3-	1/2" AND FULL FI ANG	GE WIDTH.					*	
PR	COVIDE SOLID BEARING G SCREWS (1/2"Ø x 4" L	FROM BEAM SU	PPORT TO FOUNDA SUPPORT IS CONSIL			ED TO EACH SUPPO E JOISTS ARE TOE I	RT WITH TWO (2) NAILED TO THE					**	MAXIM WHICH FROM TOP OF
SO	OVIDE ANCHOR BOLT	PLACEMENT PER	E NAILED OR BOLTE	י סיים: 2"Ø ANCHOR BC/	FLANGES @ 48"	0.0. 6'-0" O.C. AND PLAC	ED 12" FROM					***	DECKS WITH I SEALE
THE EX1	IE END OF EACH PLATE (TEND 7" INTO CONCRE IERE SHALL BE A MININ	E SECTION, ANCH TE OR MASONRY	OR BOLTS SHALL BI	E SPACED AT 3'- BE LOCATED IN E SECTION	0" O.C. FOR BAS I THE MIDDLE TH	Ements. Anchor B Ird of the width (	OLT SHALL OF THE PLATE.					2)	DECKS SHALL
FOL	UNDATION DRAINAGE-		OR WATERPROOF	ING PER SECTIO	N 405 AND 406 C	F NC BUILDING COD	E.					A.	THE DECK FLO
WA WA	ALL AND ROOF CLADDI ALL CLADDING SHALL F	NG VALUES: BE DESIGNED FOI	R 28.0 POUNDS PER	SQUARE FOOT	(LBS/SQFT) OR (	REATER POSITIVE	ND NEGATIVE PF	ESSURE.				B.	ABOVE 4 x 4 WOOD K
RO 39.0	OF VALUES BOTH POS	SITIVE AND NEGA	TIVE SHALL BE AS F D 1.5/12	OLLOWS:	,	+ = /							BOTH I AT A P TOP O
36.( 18.( **M	.0 LBS/SQFT FOR ROOF /IEAN ROOF HEIGHT 30	- 110 TES 1.5/12 PITCHES 6/12 TO '-0" OR LESS	D 12/12										45° AN TO THI
FO	OR ROOF SLOPES FROM	/ 2/12 THROUGH	4/12, BUILDER TO IN	ISTALL 2 LAYERS	S OF 15# FELT PA	PER.						C.	FOR FREESTA BRACI
RE	FER TO SECTION R602	.3 FOR FRAMING	OF ALL WALLS OVE	R 10'-0" IN HEIGH	HT.								POSTS
					1								
PR UPI	ROVIDE CONTINUOUS S PLIFT LOADS GREATER	HEATHING PER S	SECTION 602.10.3 OF	THE 2018 NCRO	). D THE FOUNDAT	ON.							POST
PR UPI REF	ROVIDE CONTINUOUS S PLIFT LOADS GREATER FFER TO TABLE N1102.1	HEATHING PER S THAN 500# SHAL I FOR PRESCRIPT	SECTION 602.10.3 OF L BE CONTINUOUSL TIVE BUILDING ENVE	THE 2018 NCRO Y ANCHORED TO ELOPE THERMAL	2. D THE FOUNDAT . COMPONENT C	ON. RITERIA.							POST
PRO UPI REF PSI	ROVIDE CONTINUOUS S PLIFT LOADS GREATER FER TO TABLE N1102.1 SL COLUMNS DESIGNED	HEATHING PER S THAN 500# SHAL I FOR PRESCRIP I WITH MAXIMUM	SECTION 602.10.3 OF L BE CONTINUOUSL FIVE BUILDING ENVE HEIGHT OF 9'-0" (U.1	THE 2018 NCRC Y ANCHORED TO ELOPE THERMAL N.O.)	2. D THE FOUNDAT	on. Riteria.							POST 4 x 6 x
PRO UPI REF PSI PRO MA	ROVIDE CONTINUOUS S PLIFT LOADS GREATER FER TO TABLE N1102.1 SL COLUMNS DESIGNED ROVIDE A MINIMUM OF S XXIMUM MASONRY PEIF	HEATHING PER S THAN 500# SHAL I FOR PRESCRIPT D WITH MAXIMUM 500# UPLIFT & LA R HEIGHT SHALL	SECTION 602.10.3 OF L BE CONTINUOUSL FIVE BUILDING ENVE HEIGHT OF 9'-0" (U.I TERAL CONNECTION NOT EXCEED FOUR	THE 2018 NCRC Y ANCHORED TO ELOPE THERMAL N.O.) N AT TOP AND BO TIMES ITS LEAS	2. D THE FOUNDAT . COMPONENT C DTTOM OF PORC T HORIZONTAL I	on. Riteria. :H Columns. (u.n.C Nimension.	.)					D.	POST 4 x 6 x 2 x 6 DIAGON/ (2) PEF TO THI
<ul> <li>PR(</li> <li>UPI</li> <li>REF</li> <li>PSI</li> <li>PR(</li> <li>MA</li> <li>IT I:</li> <li>TYI</li> </ul>	ROVIDE CONTINUOUS S PLIFT LOADS GREATER FER TO TABLE N1102.1 SL COLUMNS DESIGNED ROVIDE A MINIMUM OF S XIMUM MASONRY PEIF IS THE CONTRACTORS YNDALL ENGINEERING &	HEATHING PER S THAN 500# SHAL I FOR PRESCRIPT O WITH MAXIMUM 500# UPLIFT & LA R HEIGHT SHALL RESPONSIBILITY & DESIGN, PA IS N	SECTION 602.10.3 OF L BE CONTINUOUSL TIVE BUILDING ENVE HEIGHT OF 9'-0" (U.I TERAL CONNECTION NOT EXCEED FOUR Y TO VERIFY ALL DIM NOT RESPONSIBLE F	THE 2018 NCRC Y ANCHORED TO ELOPE THERMAL N.O.) N AT TOP AND BU TIMES ITS LEAS MENSIONS AND S FOR DIMENSION	2. D THE FOUNDAT COMPONENT C DTTOM OF PORC T HORIZONTAL I SQUARE FOOTAC OR SQUARE FO	on. Riteria. H Columns. (U.N.C Mension. E Prior to const Dtage errors on:	.) RUCTION. CE CONSTRUCTIO	N BEGINS.				D.	POST 4 x 6 x 2 x 6 DIAGON/ (2) PEF TO THI THE 2 DIPPEI
PR( UPI REF PSL PR( MA IT I: TYF	ROVIDE CONTINUOUS S PLIFT LOADS GREATER FER TO TABLE N1102.1 SL COLUMNS DESIGNED ROVIDE A MINIMUM OF 4 AXIMUM MASONRY PEIF IS THE CONTRACTORS MDALL ENGINEERING 4	HEATHING PER S THAN 500# SHAL FOR PRESCRIPT WITH MAXIMUM 500# UPLIFT & LA R HEIGHT SHALL RESPONSIBILITY & DESIGN, PA IS N	SECTION 602.10.3 OF L BE CONTINUOUSL FIVE BUILDING ENVE HEIGHT OF 9'-0" (U.I TERAL CONNECTION NOT EXCEED FOUR Y TO VERIFY ALL DIN NOT RESPONSIBLE F	THE 2018 NCRC Y ANCHORED TO ELOPE THERMAL N.O.) N AT TOP AND BO TIMES ITS LEAS MENSIONS AND S FOR DIMENSION	2. D THE FOUNDAT . COMPONENT C DTTOM OF PORC T HORIZONTAL I SQUARE FOOTAC OR SQUARE FO	on. Riteria. H Columns. (U.N.C Mension. E Prior to const Dtage errors on	.) RUCTION. CE CONSTRUCTIO	IN BEGINS.				D. E.	POST 4 x 6 x 2 x 6 DIAGON/ (2) PEF TO THI THE 2 DIPPEI FOR EMBEDM
PR( UPL REF PSL PR( MA TYP	20VIDE CONTINUOUS S PLIFT LOADS GREATER EFER TO TABLE N1102.1 SL COLUMNS DESIGNED 20VIDE A MINIMUM OF S 20VIDE	HEATHING PER S THAN 500# SHAL I FOR PRESCRIPT O WITH MAXIMUM 500# UPLIFT & LA R HEIGHT SHALL RESPONSIBILITY & DESIGN, PA IS N	SECTION 602.10.3 OF L BE CONTINUOUSL TIVE BUILDING ENVE HEIGHT OF 9'-0" (U.I TERAL CONNECTION NOT EXCEED FOUR Y TO VERIFY ALL DIM NOT RESPONSIBLE F	THE 2018 NCRC Y ANCHORED TO ELOPE THERMAL N.O.) N AT TOP AND BO TIMES ITS LEAS MENSIONS AND S FOR DIMENSION	2. D THE FOUNDAT COMPONENT C DTTOM OF PORC T HORIZONTAL I SQUARE FOOTAC OR SQUARE FO WOOD	ON. RITERIA. H COLUMNS. (U.N.C DIMENSION. E PRIOR TO CONST DTAGE ERRORS ON	.) RUCTION. CE CONSTRUCTIO	IN BEGINS.	SLAB d	CRAWL SPACE	c	D. E.	POST 4 x 6 x 2 x 6 DIAGON/ (2) PEF TO THI THE 2 DIPPEI FOR EMBEDM
PR( UPI PSI PR( MA: TYP	ROVIDE CONTINUOUS S PLIFT LOADS GREATER FER TO TABLE N1102.1 SL COLUMNS DESIGNED ROVIDE A MINIMUM OF S AXIMUM MASONRY PEIF IS THE CONTRACTORS INDALL ENGINEERING S FENESTRATION U-FACTOR	HEATHING PER S THAN 500# SHAL FOR PRESCRIPT WITH MAXIMUM 500# UPLIFT & LA REIGHT SHALL RESPONSIBILITY DESIGN, PA IS N SKYLIGHT <sup>b</sup> U-FACTOR	SECTION 602.10.3 OF L BE CONTINUOUSL TIVE BUILDING ENVE HEIGHT OF 9'-0" (U.I TERAL CONNECTION NOT EXCEED FOUR Y TO VERIFY ALL DIM NOT RESPONSIBLE F GLAZED FENESTRATION SHGC <sup>b,k</sup>	THE 2018 NCRC Y ANCHORED TO ELOPE THERMAL N.O.) N AT TOP AND BO TIMES ITS LEAS MENSIONS AND S FOR DIMENSION	2. D THE FOUNDAT COMPONENT C DTTOM OF PORC T HORIZONTAL I SQUARE FOOTAC OR SQUARE FO WOOD FRAMED WAL R-VALUE	ON. RITERIA. H COLUMNS. (U.N.C DIMENSION. E PRIOR TO CONST DTAGE ERRORS ON MASS WALL R-VALUE	.) RUCTION. CE CONSTRUCTIO	IN BEGINS. BASEMENT <sup>C,S</sup> WALL R-VALUE	SLAB d R-VALUE AND DEPTH	CRAWL SPACE WALL R-VALUE	c	D. E.	POST 4 x 6 x 2 x 6 DIAGON/ (2) PEF TO THI THE 2 DIPPEI FOR EMBEDM
PR( UPI REF PSL PR( MA IT I TYF	ROVIDE CONTINUOUS S PLIFT LOADS GREATER FER TO TABLE N1102.1 SL COLUMNS DESIGNED ROVIDE A MINIMUM OF S AXIMUM MASONRY PEIF IS THE CONTRACTORS INDALL ENGINEERING S FENESTRATION U-FACTOR <sup>b, j</sup> 0.35	HEATHING PER S THAN 500# SHAL FOR PRESCRIPT WITH MAXIMUM 500# UPLIFT & LA RESPONSIBILITY DESIGN, PA IS N SKYLIGHT b U-FACTOR 0.55	SECTION 602.10.3 OF L BE CONTINUOUSL TIVE BUILDING ENVE HEIGHT OF 9-0" (U.I TERAL CONNECTION NOT EXCEED FOUR ' TO VERIFY ALL DIN NOT RESPONSIBLE F GLAZED FENESTRATION SHGC <sup>b,k</sup> 0.30	THE 2018 NCRC Y ANCHORED TO ELOPE THERMAL N.O.) N AT TOP AND BO TIMES ITS LEAS MENSIONS AND S FOR DIMENSION CEILING C R-VALUE 38 or 30 <u>cont</u>	2. D THE FOUNDAT COMPONENT C DTTOM OF PORC T HORIZONTAL I SQUARE FOOTAC OR SQUARE FO TAMED WAL R-VALUE <u>15 or</u> 13 + <u>2.5</u>	ON. RITERIA. COLUMNS. (U.N.C MENSION. DE PRIOR TO CONST DTAGE ERRORS ON MASS WALL R-VALUE 5/13 or 5/10 cont	.) RUCTION. CE CONSTRUCTIO	N BEGINS. BASEMENT <sup>C,g</sup> WALL R-VALUE <u>5/13</u> <sup>f</sup>	° SLAB <sup>d</sup> R-VALUE AND DEPTH 0	CRAWL SPACE WALL R-VALUE 5/13		D. E.	POST 4 x 6 x 2 x 6 DIAGON/ (2) PEF TO THI THE 2 DIPPEI FOR EMBEDM
PRO UPL REF PSL PRO MAL IT IS TYP MATE NES 3 4	ROVIDE CONTINUOUS S PLIFT LOADS GREATER EFER TO TABLE N1102.1 SL COLUMNS DESIGNED ROVIDE A MINIMUM OF S AXIMUM MASONRY PEIF IS THE CONTRACTORS INDALL ENGINEERING S FENESTRATION U-FACTOR b, j 0.35 0.35	HEATHING PER S THAN 500# SHAL I FOR PRESCRIPT D WITH MAXIMUM 500# UPLIFT & LA R HEIGHT SHALL RESPONSIBILITY & DESIGN, PA IS N U-FACTOR 0.55 0.55	SECTION 602.10.3 OF L BE CONTINUOUSL TIVE BUILDING ENVE HEIGHT OF 9'-0" (U.I TERAL CONNECTION NOT EXCEED FOUR 7 TO VERIFY ALL DIM NOT RESPONSIBLE F GLAZED FENESTRATION SHGC <sup>b,k</sup> 0.30 <u>0.30</u>	THE 2018 NCRC Y ANCHORED TO ELOPE THERMAL N.O.) N AT TOP AND BO TIMES ITS LEAS MENSIONS AND S FOR DIMENSION CEILING M R-VALUE 38 or 30 cont 38 or 30 cont	2. D THE FOUNDAT COMPONENT C DTTOM OF PORC T HORIZONTAL I SQUARE FOOTAC OR SQUARE FO WOOD FRAMED WAL R-VALUE <u>15 or</u> <u>13 + 2.5</u> <u>15 or</u> <u>13 + 2.5</u>	ON. RITERIA. CH COLUMNS. (U.N.C DIMENSION. E PRIOR TO CONST DTAGE ERRORS ON MASS WALL R-VALUE MASS WALL R-VALUE 1 5/13 or 5/10 cont	.) RUCTION. CE CONSTRUCTIO	N BEGINS. BASEMENT <sup>C,G</sup> WALL R-VALUE <u>5/13</u> <sup>f</sup> <u>10/15</u>	2 SLAB d R-VALUE AND DEPTH 0 10	CRAWL SPACE WALL R-VALUE 5/13 <u>10/15</u>	C	D. E.	POST 4 x 6 x 2 x 6 DIAGON/ (2) PEF TO THI THE 2: DIPPEI FOR EMBEDM
PR(           UPI           REF           PSL           PR(           MAL           TYN           WATE           NES           3           4           5	ROVIDE CONTINUOUS S PLIFT LOADS GREATER EFER TO TABLE N1102.1 SL COLUMNS DESIGNED ROVIDE A MINIMUM OF S AXIMUM MASONRY PEIF IS THE CONTRACTORS INDALL ENGINEERING S FENESTRATION U-FACTOR <sup>b, j</sup> 0.35 0.35	HEATHING PER S THAN 500# SHAL FOR PRESCRIPT WITH MAXIMUM 500# UPLIFT & LA REIGHT SHALL RESPONSIBILITY DESIGN, PA IS N U-FACTOR 0.55 0.55	SECTION 602.10.3 OF L BE CONTINUOUSL TIVE BUILDING ENVE HEIGHT OF 9'-0" (U.I TERAL CONNECTION NOT EXCEED FOUR Y TO VERIFY ALL DIM NOT RESPONSIBLE F GLAZED FENESTRATION SHGC <sup>b,k</sup> 0.30 0.30 0.30	THE 2018 NCRC Y ANCHORED TO ELOPE THERMAL N.O.) N AT TOP AND BO TIMES ITS LEAS MENSIONS AND S FOR DIMENSION CEILING TO R-VALUE 38 or 30 cont j 38 or 30 cont j	COMPONENT C COMPONENT C OTTOM OF PORC T HORIZONTAL I SQUARE FOOTAC OR SQUARE FO FRAMED WAL R-VALUE <u>15 or 13 + 2.5</u> 15 or 13 + 2.5 <u>19, or 13 + 5</u> <u>or 15 + 3</u>	ON. RITERIA. COLUMNS. (U.N.C. DIMENSION. E PRIOR TO CONST DTAGE ERRORS ON MASS WALL R-VALUE MASS WALL R-VALUE MASS WALL R-VALUE MASS MASS WALL R-VALUE MASS	.) RUCTION. CE CONSTRUCTION FLOOR R-VALUE 19 19 19 30 <sup>9</sup>	N BEGINS. BASEMENT <sup>C,S</sup> WALL R-VALUE <u>5/13</u> <sup>f</sup> <u>10/15</u> <u>10/15</u>	SLAB d R-VALUE AND DEPTH 0 10 10	CRAWL SPACE WALL R-VALUE 5/13 <u>10/15</u> <u>10/19</u>	c	D. E.	POST 4 x 6 x 2 x 6 DIAGON/ (2) PEF TO THI THE 2 DIPPEI FOR EMBEDM
) PR( ) UPI ) REI ) PSI ) PR( ) MAI ) IT II TYP MATE NES 3 4 5	ROVIDE CONTINUOUS S PLIFT LOADS GREATER EFER TO TABLE N1102.1 SL COLUMNS DESIGNED ROVIDE A MINIMUM OF S AXIMUM MASONRY PEIF IS THE CONTRACTORS INDALL ENGINEERING S FENESTRATION U-FACTOR b, j 0.35 0.35 0.35 0.35	HEATHING PER S THAN 500# SHAL I FOR PRESCRIPT D WITH MAXIMUM 500# UPLIFT & LA R HEIGHT SHALL RESPONSIBILITY & DESIGN, PA IS N U-FACTOR 0.55 0.55 0.55 N1102.1 CLIV	SECTION 602.10.3 OF L BE CONTINUOUSL TIVE BUILDING ENVE HEIGHT OF 9'-0" (U.I TERAL CONNECTION NOT EXCEED FOUR 7 TO VERIFY ALL DIM NOT RESPONSIBLE F GLAZED FENESTRATION SHGC <sup>b,k</sup> 0.30 0.30 0.30 NR	THE 2018 NCRC Y ANCHORED TO ELOPE THERMAL N.O.) N AT TOP AND BU TIMES ITS LEAS MENSIONS AND S FOR DIMENSION CEILING CONT R-VALUE 38 or 30 cont 38 or 30 cont 38 or 30 cont 5	COMPONENT C COMPONENT C COMPONENT C DITTOM OF PORC T HORIZONTAL I SQUARE FOOTAC OR SQUARE FO FRAMED WAL R-VALUE <u>15 or 13 + 2.5</u> <u>15 or 13 + 2.5</u> <u>15 or 13 + 2.5</u> <u>19, or 13 + 5</u> <u>or 15 + 3</u>	ON. RITERIA. COLUMNS. (U.N.C. DIMENSION. E PRIOR TO CONST DTAGE ERRORS ON MASS WALL R-VALUE MASS WALL R-VALUE MASS WALL R-VALUE MASS WALL R-VALUE MASS WALL R-VALUE MASS MASS WALL R-VALUE MASS MASS WALL R-VALUE MASS MASS WALL R-VALUE MASS MASS WALL R-VALUE MASS M	.) RUCTION. CE CONSTRUCTION i FLOOR R-VALUE 19 19 19 30 <sup>9</sup> 	N BEGINS. BASEMENT <sup>C,G</sup> WALL R-VALUE <u>5/13</u> <sup>f</sup> <u>10/15</u> <u>10/15</u>	SLAB d R-VALUE AND DEPTH 0 10 10	CRAWL SPACE WALL R-VALUE 5/13 <u>10/15</u> <u>10/19</u>	C	D. E.	POST 4 x 6 x 2 x 6 DIAGON/ (2) PEF TO THI THE 2: DIPPEI FOR EMBEDM
) PR( ) UPI ) REf ) PSI ) PR( ) MAI ) IT I , TYP MATE NES 3 4 5 5	ROVIDE CONTINUOUS S PLIFT LOADS GREATER EFER TO TABLE N1102.1 SL COLUMNS DESIGNED ROVIDE A MINIMUM OF S AXIMUM MASONRY PEIF IS THE CONTRACTORS INDALL ENGINEERING S DALL ENGINEERING S DALL ENGINEERING S D.35 0.35 0.35 0.35 0.35	HEATHING PER S THAN 500# SHAL FOR PRESCRIPT WITH MAXIMUM 500# UPLIFT & LA REIGHT SHALL RESPONSIBILITY DESIGN, PA IS N U-FACTOR 0.55 0.55 0.55 N1102.1 CLIW RE MINIMUMS, U-FACTOF INSULATION, THE INSTAL IRATION U-FACTOR COLU	SECTION 602.10.3 OF L BE CONTINUOUSL TIVE BUILDING ENVE HEIGHT OF 9'-0" (U.I TERAL CONNECTION NOT EXCEED FOUR Y TO VERIFY ALL DIM NOT RESPONSIBLE F GLAZED FENESTRATION SHGC <sup>5,K</sup> 0.30 0.30 0.30 NR IATE ZONES 3-5 RS AND SHGC ARE MAXIMUMS LED RVALUE OF THE INSULA SS AND SHGC ARE MAXIMUMS LATE ZONES 3-6	THE 2018 NCRC Y ANCHORED TO ELOPE THERMAL N.O.) N AT TOP AND BO TIMES ITS LEAS MENSIONS AND S FOR DIMENSION CEILING R-VALUE <u>38 or 30</u> <u>cont</u> <u>38 or 30</u> <u>cont</u> <u>38 or 30</u> <u>cont</u> <u>38 or 30</u> <u>cont</u> <u>38 or 30</u> <u>cont</u> <u>5</u> S. WHEN INSULATION IS I	C. D THE FOUNDAT COMPONENT C DTTOM OF PORC T HORIZONTAL I SQUARE FOOTAC OR SQUARE FO FRAMED WAL R-VALUE <u>15 or</u> <u>13 + 2.5</u> <u>15 or</u> <u>15 + 3</u> NSTALLED IN A CAVITY V	ON. RITERIA. COLUMNS. (U.N.C. DIMENSION. E PRIOR TO CONST DTAGE ERRORS ON MASS - MASS - MASS	.) RUCTION. CE CONSTRUCTION FLOOR R-VALUE 19 19 19 30 <sup>9</sup> El OR DESIGN THICKNESS	N BEGINS. BASEMENT <sup>C, 5</sup> WALL R-VALUE <u>5/13</u> <sup>f</sup> <u>10/15</u> <u>10/15</u>	<ul> <li>SLAB d R-VALUE AND DEPTH</li> <li>0</li> <li>10</li> <li>10</li> </ul>	CRAWL SPACE WALL R-VALUE 5/13 <u>10/15</u> <u>10/19</u>	C	D. E.	POST 4 x 6 x 2 x 6 DIAGON/ (2) PEF TO THI THE 2: DIPPEI FOR EMBEDM
) PR( ) UPI ) REI ) PSI ) PR( ) PR( ) NATE ) MATE NES 3 4 5	ROVIDE CONTINUOUS S PLIFT LOADS GREATER EFER TO TABLE N1102.1 SL COLUMNS DESIGNED ROVIDE A MINIMUM OF S AXIMUM MASONRY PEIF IS THE CONTRACTORS INDALL ENGINEERING S FENESTRATION U-FACTOR 0.35 0.35 0.35 0.35 0.35 0.35 0.35 0.35	HEATHING PER S THAN 500# SHAL I FOR PRESCRIPT D WITH MAXIMUM 500# UPLIFT & LA R HEIGHT SHALL RESPONSIBILITY DESIGN, PA IS N U-FACTOR 0.55 0.55 0.55 0.55 N1102.1 CLIN RE MINIMUMS. U-FACTOR INSULATION, THE INSTAL RATION U-FACTOR COLU COLUMN APPLIES TO ALL SR -10 CONTINUOUS INS IS R-10 CONTINUOUS INS IS R-10 CONTINUOUS INS IS R-10 CONTINUOUS INS IS R-10 CONTINUOUS INS	SECTION 602.10.3 OF L BE CONTINUOUSL TIVE BUILDING ENVE HEIGHT OF 9-0" (U.I TERAL CONNECTION NOT EXCEED FOUR 'TO VERIFY ALL DIN NOT RESPONSIBLE F GLAZED FENESTRATION SHGC <sup>b,k</sup> 0.30 0.30 0.30 NR IATE ZONES 3-5 IS AND SHGC ARE MAXIMUMS LED R-VALUE OF THE INSULA IMM EXCLUDED SKYLIGHTS. T GLAZED FENESTRATION. ULATED SHEATHING ON THE INFENTOR OF THE BASSM	THE 2018 NCRC Y ANCHORED TO ELOPE THERMAL N.O.) N AT TOP AND B TIMES ITS LEAS MENSIONS AND S FOR DIMENSION CEILING C	COMPONENT C COMPONENT C COMPONENT C OTTOM OF PORC T HORIZONTAL I SQUARE FOOTAC OR SQUARE FO FRAMED WAL R-VALUE <u>15 or 13 + 2.5</u> <u>15 or</u> 13 + 2.5 <u>15 or</u> 14 + 2.5 <u>15 or</u> 15 + 2	ON. RITERIA. CH COLUMNS. (U.N.C DIMENSION. DE PRIOR TO CONST DTAGE ERRORS ON MASS WALL R-VALUE n 5/13 or 5/10 cont n 5/10 cont n 5/13 or 5/10 cont n 13/17 or 13/12.5 cont MICH IS LESS THAN THE LARE ECIFIED IN THE TABLE.	.) RUCTION. CE CONSTRUCTION FLOOR R-VALUE 19 19 19 30 <sup>9</sup> El OR DESIGN THICKNESS	N BEGINS. BASEMENT <sup>C, 4</sup> WALL R-VALUE <u>5/13</u> <sup>f</sup> <u>10/15</u> <u>10/15</u>	2 SLAB d R-VALUE AND DEPTH 0 10 10	CRAWL SPACE WALL R-VALUE 5/13 <u>10/15</u> <u>10/19</u>		D. E.	POST 4 x 6 x 2 x 6 DIAGON/ (2) PEF TO THI THE 2: DIPPEI FOR EMBEDM DRBELLED BF CRBELLED BF CRBELLED BF CRBELLED BF
PR( UPI PSI PSI PR( MATE NES 3 4 5	ROVIDE CONTINUOUS S PLIFT LOADS GREATER EFER TO TABLE N1102.1 SL COLUMNS DESIGNED ROVIDE A MINIMUM OF S AXIMUM MASONRY PEIF IS THE CONTRACTORS INDALL ENGINEERING S FENESTRATION U-FACTOR b, j 0.35 0.35 0.35 0.35 0.35 0.35	HEATHING PER S THAN 500# SHAL I FOR PRESCRIPT D WITH MAXIMUM 500# UPLIFT & LA R HEIGHT SHALL RESPONSIBILITY & DESIGN, PA IS N U-FACTOR 0.55 0.55 0.55 0.55 0.55	SECTION 602.10.3 OF L BE CONTINUOUSL TIVE BUILDING ENVE HEIGHT OF 9'-0" (U.I TERAL CONNECTION NOT EXCEED FOUR Y TO VERIFY ALL DIM NOT RESPONSIBLE F GLAZED FENESTRATION SHGC <sup>b,k</sup> 0.30 0.30 0.30 NR MATE ZONES 3-5 IS AND SHGC ARE MAXIMUMS LED R-VALUE OF THE INSULA IMM EXCLUDED SKYLIGHTS. T .GLAZED FENESTRATION ULATED SHEATHING ON THE IN EXCLUDED SKYLIGHTS. T .GLAZED FENESTRATION ON THE ITHE FOUNDATION WALL OR IN EXCLUDED SKYLIGHTS. T .GLAZED FENESTRATION ON THE ITHE FOUNDATION WALL OR THE IN EXCLUDED SKYLIGHTS. T .GLAZED FENESTRATION ON THE .THE FOUNDATION WALL OR THE .THE FOUNDATION WALL OR THE .THE FOUNDATION WALL OR THE .THE FOUNDATION WALL OR THE INTERIOR OF THE BASEM	THE 2018 NCRC Y ANCHORED TO ELOPE THERMAL N.O.) N AT TOP AND BO TIMES ITS LEAS MENSIONS AND S FOR DIMENSION CEILING R-VALUE 38 or 30 cont 38 or 30 cont 100 SHALL NOT BE LESS HE SOLAR HEAT GAIN C INTERIOR OR EXTERIOR ENT WALL OR CRAWL SI 4E INSPECTION GAP DOA V2*, WHICHEVER IS LESS. FOR FOLDAR CENTRO CON CONT	COMPONENT C COMPONENT C OTTOM OF PORC T HORIZONTAL I SQUARE FOOTAC OR SQUARE FOOTAC OR SQUARE FO FRAMED WAL R-VALUE <u>15 or 13 + 2.5</u> <u>15 or 14 + 3 + 2.5</u> <u>15 or 15 + 3 + 2.5 </u>	ON. RITERIA. COLUMNS. (U.N.C. DIMENSION. E PRIOR TO CONST DTAGE ERRORS ON MASS	.) RUCTION. CE CONSTRUCTION FLOOR R-VALUE 19 19 19 30 <sup>9</sup> El OR DESIGN THICKNESS	N BEGINS. BASEMENT <sup>C, 5</sup> WALL R-VALUE <u>5/13</u> <sup>f</sup> <u>10/15</u> <u>10/15</u>	SLAB d R-VALUE AND DEPTH 0 10 10	CRAWL SPACE WALL R-VALUE 5/13 <u>10/15</u> <u>10/19</u>		D. E.	POST 4 x 6 x 2 x 6 DIAGON/ (2) PEF TO THI THE 2: DIPPEI FOR EMBEDM
) PR( ) UPI ) REf ) PSI ) PR( ) MA: ) IT I ) TYP MATE )NES 3 4 5	ROVIDE CONTINUOUS S PLIFT LOADS GREATER EFER TO TABLE N1102.1 SL COLUMNS DESIGNED ROVIDE A MINIMUM OF S AXIMUM MASONRY PEIF IS THE CONTRACTORS INDALL ENGINEERING S THE CONTRACTORS INDALL ENGINEERING S 0.35 0.35 0.35 0.35 0.35 0.35 0.35 0.35	HEATHING PER S THAN 500# SHAL I FOR PRESCRIPT D WITH MAXIMUM 500# UPLIFT & LA R HEIGHT SHALL RESPONSIBILITY DESIGN, PA IS N U-FACTOR 0.55 0.55 0.55 0.55 0.55 0.55 0.55 0.5	SECTION 602.10.3 OF L BE CONTINUOUSL TIVE BUILDING ENVE HEIGHT OF 9-0" (U.I TERAL CONNECTION NOT EXCEED FOUR A TO VERIFY ALL DIM NOT RESPONSIBLE F GLAZED FENESTRATION SHGC <sup>b,k</sup> 0.30 0.30 0.30 NR IATE ZONES 3-5 ISAND SHGC ARE MAXIMUMS LED RVALUE OF THE INSULA SHALL BE APPLIED FROM THE SHALL SHALL SHAL	THE 2018 NCRC Y ANCHORED TO ELOPE THERMAL N.O.) N AT TOP AND BO TIMES ITS LEAS MENSIONS AND S FOR DIMENSION CEILING	2. D THE FOUNDAT COMPONENT C DOTTOM OF PORC T HORIZONTAL I SQUARE FOOTAC OR SQUARE FO FRAMED WAL R-VALUE <u>15 or</u> <u>13 + 2.5</u> <u>15 or</u> <u>15 + 3</u> NSTALLED IN A CAVITY I S THAN THE R-VALUE SI OEFFICIENT <u>OF THE HOME</u> PACE WALL NWWARD TO THE BOTTC <u>SR -5 SHALL BE</u>	ON. RITERIA. CH COLUMNS. (U.N.C MENSION. E PRIOR TO CONST DTAGE ERRORS ON MASS WALL R-VALUE MASS WALL R-VALUE 13/13 or 5/10 cont 13/12.5 cont MICH IS LESS THAN THE LABE COLUMNS. (U.N.C MASS WALL R-VALUE MASS WALL R-VALUE MASS WALL R-VALUE MASS WALL R-VALUE MASS WALL R-VALUE MASS WALL R-VALUE MASS WALL R-VALUE MASS WALL R-VALUE MASS WALL R-VALUE MASS WALL R-VALUE MASS WALL R-VALUE MASS WALL R-VALUE MASS WALL R-VALUE MASS WALL R-VALUE MASS MASS WALL R-VALUE MASS MASS WALL R-VALUE MASS MASS WALL R-VALUE MASS	.) RUCTION. CE CONSTRUCTION FLOOR R-VALUE 19 19 19 30 <sup>9</sup> == al OR DESIGN THICKNESS	N BEGINS. BASEMENT <sup>C, 4</sup> WALL R-VALUE <u>5/13</u> <sup>f</sup> <u>10/15</u> <u>10/15</u>	SLAB d R-VALUE AND DEPTH 0 10 10	CRAWL SPACE WALL R-VALUE 5/13 <u>10/15</u> <u>10/19</u>		D. E.	POST 4 x 6 x 2 x 6 DIAGON/ (2) PEF TO THI THE 2 : DIPPEI FOR EMBEDM DRBELLED BF C BUILDING CO BRICK (
PR( UPI PSI PSI PR( NATE NATE NATE NATE NATE NATE NATE NAS 3 4	ROVIDE CONTINUOUS S PLIFT LOADS GREATER EFER TO TABLE N1102.1 SL COLUMNS DESIGNED ROVIDE A MINIMUM OF S AXIMUM MASONRY PEIF IS THE CONTRACTORS NDALL ENGINEERING S FENESTRATION U-FACTOR b, j 0.35 0.35 0.35 0.35 0.35 0.35 0.35 0.35	HEATHING PER S THAN 500# SHAL I FOR PRESCRIPT D WITH MAXIMUM 500# UPLIFT & LA R HEIGHT SHALL RESPONSIBILITY DESIGN, PA IS N U-FACTOR 0.55 0.55 0.55 0.55 0.55 0.55 N1102.1 CLIN RE MINIMUMS. U-FACTOR INSULATION U-FACTOR COLU COLUMN APPLIES TO ALL RE MINIMUMS. U-FACTOR INSULATION U-FACTOR COLU COLUMN APPLIES TO ALL RE MINIMUMS. U-FACTOR INSULATION U-FACTOR COLU COLUMN APPLIES TO ALL SR -10 CONTINUOUS INS CAVITY INSULATION AT I ITHIC SLABS, INSULATION OTING OR A MAXIMUM ( CTEND TO THE BOTTOM O O THE REQUIRED SLAB EI VALL INSULATION IS NOT ION SUFFICIENT TO FILL /ALUE IS CAVITY INSULAT	SECTION 602.10.3 OF L BE CONTINUOUSL TIVE BUILDING ENVE HEIGHT OF 9-0" (U.I TERAL CONNECTION NOT EXCEED FOUR 'TO VERIFY ALL DIN NOT RESPONSIBLE F GLAZED FENESTRATION SHGC <sup>b,k</sup> 0.30 0.30 0.30 NR MATE ZONES 3-6 SAND SHGC ARE MAXIMUMS LED R-VALUE OF THE INSULAT INN EXCLUDED SKYLIGHTS. T GLAZED FENESTRATION. ULATED SHEATHING ON THE ITHE INTERIOR OF THE BASEM USHALL BE APPLIED FROM THE THE INTERIOR OF THE BASEM SHALL BE APPLIED FROM THE F THE FOUNDATION WALL OR DOGE R-VALUES FOR HEATED S REQUIRED IN WARM-HUMID LI THE FRAMING CAVITY. R-19 M 10N, THE SECOND VALUE IS CON	THE 2018 NCRC Y ANCHORED TO ELOPE THERMAL N.O.) N AT TOP AND B TIMES ITS LEAS MENSIONS AND S FOR DIMENSION CEILING CEILING CEILING CEILING CEILING CEILING CEILING CONT C	C. OTHE FOUNDAT COMPONENT C OTTOM OF PORC T HORIZONTAL I SQUARE FOOTAC OR SQUARE FO SQUARE FOOTAC OR SQUARE FO TAMED WAL R-VALUE <u>15 or 13 + 2.5</u> <u>15 or</u> <u>13 + 3.5</u> <u>15 or</u> <u>13 + 3.5</u> <u>15 or</u> <u>15 or</u>	ON. RITERIA. COLUMNS. (U.N.C. MENSION. E PRIOR TO CONST DTAGE ERRORS ON MASS WALL R-VALUE n 5/13 or 5/10 cont n 5/13 or 5/10 cont n 5/13 or 5/10 cont MASS WALL R-VALUE n 5/13 or 5/10 cont MASS WALL R-VALUE n 5/13 or 5/10 cont 13/12.5 cont MASS MASS WALL R-VALUE n 5/10 cont 13/12.5 cont MASS CONT N 13/17 or 13/12.5 cont CONT CON	.) RUCTION. CE CONSTRUCTION FLOOR R-VALUE 19 19 19 30 <sup>9</sup> = L OR DESIGN THICKNESS	N BEGINS. BASEMENT <sup>C,4</sup> WALL R-VALUE <u>5/13</u> <sup>f</sup> <u>10/15</u> <u>10/15</u>	2 SLAB d R-VALUE AND DEPTH 0 10 10	CRAWL SPACE WALL R-VALUE 5/13 <u>10/15</u> <u>10/19</u>		D. E.	POST 4 x 6 x 2 x 6 DIAGON/ (2) PEF TO THI THE 2: DIPPEI FOR EMBEDM DRBELLED BF CRBELLED BF CRBELLED BF CRBELLED BF CRBELLED BF
<ul> <li>PR(</li> <li>UPI</li> <li>REF</li> <li>PSI</li> <li>PR(</li> <li>PR(</li> <li>O MAX</li> <li>TYP</li> <li>MATE</li> <li>MATE</li> <li>MATE</li> <li>NES</li> <li>3</li> <li>4</li> <li>5</li> <li>O SCALE</li> </ul>	ROVIDE CONTINUOUS S PLIFT LOADS GREATER EFER TO TABLE N1102.1 SL COLUMNS DESIGNED ROVIDE A MINIMUM OF S AXIMUM MASONRY PEIF IS THE CONTRACTORS INDALL ENGINEERING S INDALL ENGINEERING S INDAL S IN	HEATHING PER S THAN 500# SHAL I FOR PRESCRIPT D WITH MAXIMUM 500# UPLIFT & LA R HEIGHT SHALL RESPONSIBILITY & DESIGN, PA IS N U-FACTOR 0.55 0.55 0.55 0.55 0.55 0.55 0.55 0.5	SECTION 602.10.3 OF L BE CONTINUOUSL TIVE BUILDING ENVE HEIGHT OF 9'-0" (U.I TERAL CONNECTION NOT EXCEED FOUR 'TO VERIFY ALL DIM NOT RESPONSIBLE F GLAZED FENESTRATION SHGC <sup>b,k</sup> 0.30 0.30 0.30 0.30 0.30 NR MATE ZONES 3-5 St and SHGC ARE MAXIMUMS LED R-VALUE OF THE INSULA MIN EXCLUDED SKYLIGHTS. T. GLAZED FENESTRATION ULATED SHEATHING ON THE INTERIOR OF THE BASEM USALED RESTRATION ULATED SHEATHING ON THE IN EXCLUDED SKYLIGHTS. T. GLAZED FENESTRATION ULATED SHEATHING ON THE IN EXCLUDED SKYLIGHTS. T. GLAZED FENESTRATION ULATED SHEATHING ON THE IN EXCLUDED SKYLIGHTS. T. GLAZED FENESTRATION ULATED SHEATHING ON THE IN THE FRAMING CAVITY. R. 19 M ION, THE SECOND VALUE IS CONTY INSULATION VALON VALUE IS CONTY INSULATIO	THE 2018 NCRC Y ANCHORED TO ELOPE THERMAL N.O.) N AT TOP AND BO TIMES ITS LEAS MENSIONS AND S FOR DIMENSION CEILING R-VALUE 38 or 30 cont 38 or 30 cont 10 S WHEN INSULATION IS I INTON SHALL NOT BE LES HE SOLAR HEAT GAIN C INTERIOR OR EXTERIOR CONTIONS AS DEFINED INNUMIN. CONTIONS AS DEFINED INNUMING OF AT LES SHEATHING OF AT LES SHEATHING OF AT LES SHEATHING OF AT LES CONTIONS AS DEFINED INNUMIN. CONTIONS AS DEFINED INNUMIN. CONTIONS AS DEFINED INNUMING OF AT LES CONTIONS AS	COMPONENT C COMPONENT C COMPONENT C DITTOM OF PORC T HORIZONTAL I CONTOM OF PORC T HORIZONTAL I COMPONENT C CONTOURS CONTRACT CONTOURS CON	ON. RITERIA. H COLUMNS. (U.N.C MENSION. PRIOR TO CONST DTAGE ERRORS ON MASS MALL R-VALUE M S/10 cont MASS MALL R-VALUE M M TABLE N1101.7. CANTY INSULATION PLUS R- CHING COVERS 25% OR LESS HEATHING COVERS MORE TH SR-13 CAVITY	.) RUCTION. CE CONSTRUCTION FLOOR 1 19 19 19 19 30 <sup>9</sup> = L OR DESIGN THICKNESS 5 INSULATED OF THE EXTERIOR, N 25 PERCENT	IN BEGINS. BASEMENT <sup>C, 4</sup> WALL R-VALUE <u>5/13</u> <sup>f</sup> <u>10/15</u> <u>10/15</u>	SLAB d R-VALUE AND DEPTH 0 10 10	CRAWL SPACE WALL R-VALUE 5/13 <u>10/15</u> <u>10/19</u>		D. E.	POST 4 x 6 x 2 x 6 DIAGON/ (2) PEF TO THI THE 2: DIPPEI FOR EMBEDM CRBELLED BF CRBELLED BF CRBELLED BF CRBELLED BF CRBELLED BF
<ul> <li>PR(</li> <li>UPI</li> <li>REI</li> <li>PSI</li> <li>PR(</li> <li>PSI</li> <li>PR(</li> <li>NA</li> <li>TYP</li> <li>MATE</li> <li>NES</li> <li>3</li> <li>4</li> <li>5</li> <li>O SCALE</li> </ul>	ROVIDE CONTINUOUS S PLIFT LOADS GREATER EFER TO TABLE N1102.1 SL COLUMNS DESIGNED ROVIDE A MINIMUM OF S AXIMUM MASONRY PEIF IS THE CONTRACTORS INDALL ENGINEERING S IS TABLE IS THE CONTRACTORS INDALL ENGINEERING S IS TABLE IS THE CONTRACTORS IN STATE IS THE CONTRACTORS IN STATE IS THE CONTRACTORS IN STATE IS THE	HEATHING PER S THAN 500# SHAL I FOR PRESCRIPT D WITH MAXIMUM 500# UPLIFT & LA R HEIGHT SHALL RESPONSIBILITY & DESIGN, PA IS N U-FACTOR 0.55 0.55 0.55 0.55 0.55 0.55 0.55 0.5	SECTION 602.10.3 OF L BE CONTINUOUSL TIVE BUILDING ENVE HEIGHT OF 9-0" (U.I TERAL CONNECTION NOT EXCEED FOUR Y TO VERIFY ALL DIN NOT RESPONSIBLE F GLAZED FENESTRATION SHGC <sup>b,k</sup> 0.30 0.30 0.30 NR MATE ZONES 3-5 IS AND SHGC ARE MAXIMUMS LED R-VALUE OF THE INSULA IMM EXCLUDED SKYLIGHTS. T GLAZED FENESTRATION. ULATED SHEATHING ON THE ITHE INTERIOR OF THE INSULA IMM EXCLUDED SKYLIGHTS. T GLAZED FENESTRATION. ULATED SHEATHING ON THE ITHE INTERIOR OF THE INSULA INC ALLE OF THE INSULA INC ALLE OF THE INSULA INC ALLE OF THE INSULA INC ALLE OF THE BASEM SHALL BE APPLIED FROM THE ITHE FRAMING CAVITY. R-19 M ION, THE SECOND VALUE IS C CAUTY INSULATION. PLUS R-3 REQUIRED WHERE THE STRUL PPLEMENTED WITH INSULATE ING. LUE APPLIES WHEN MORE THE GCION M1102.3.3. A MAXIMUM	THE 2018 NCRC Y ANCHORED TO ELOPE THERMAL N.O.) N AT TOP AND B TIMES ITS LEAS MENSIONS AND S FOR DIMENSION CEILING R-VALUE 38 or 30 cont 38 or 30 cont 38 or 30 cont 38 or 30 cont 38 or 30 cont 5 WHEN INSULATION IS I TION SHALL NOT BE LESS HE SOLAR HEAT GAIN C INTERIOR OR EXTERIOR EVER IS LESS. FOR FLOA 224, WHICHEVER IS LESS SLABS. INSULATEO SHEATHING IS I ED SHEATHING OF AT LEE IAN HALF THE INSULATION	COMPONENT C COMPONENT C COMPONENT C COTTOM OF PORC T HORIZONTAL I CONTOM OF PORC T HORIZONTAL I COR SQUARE FOOTAC OR SQUARE FOOTAC IS OF SQUARE FOOTAC IS OF THE TO STALLED IN A CAVITY IS STALLED IN A CAVITY IS THAN THE R-VALUE SI OEFFICIENT OF THE HOME PACE WALL. NINWARD TO THE BOTTIC TING SLABS, INSULATIO S, R S SHALL BE SY FIGURE N1101.7 AND N, SO "13+5" MEANS R-1 S, IF STRUCTURAL SHEA SSED IF STRUCTURAL SHEA SST REAL STRUCTURAL SHEA SST	ON. RITERIA. COLUMNS. (U.N.C. MENSION. E PRIOR TO CONST DTAGE ERRORS ON MASS MASS MALL R-VALUE n 5/13 or 5/10 cont 13/12.5 cont 13/12.5 cont MASS MASS MALL R-VALUE n 5/10 cont 13/12.5 cont MASS M	.) RUCTION. CE CONSTRUCTION FLOOR FLOOR R-VALUE 19 19 19 30 <sup>9</sup> I OR DESIGN THICKNESS 5 INSULATED OF THE EXTERIOR. INSULATED OF THE EXTERIOR. NO GREATER THAN 0.55	N BEGINS. BASEMENT <sup>C, 4</sup> WALL R-VALUE <u>5/13</u> <sup>f</sup> <u>10/15</u> <u>10/15</u>	2 SLAB d R-VALUE AND DEPTH 0 10 10	CRAWL SPACE WALL R-VALUE 5/13 <u>10/15</u> <u>10/19</u>		D. E.	POST 4 x 6 x 2 x 6 DIAGON/ (2) PEF TO THI THE 2 : DIPPEI FOR EMBEDM
<ul> <li>PR(</li> <li>UPI</li> <li>REF</li> <li>PSI</li> <li>PR(</li> <li>PSI</li> <li>PR(</li> <li>NAX</li> <li>TYP</li> <li>MATE</li> <li>NES</li> <li>3</li> <li>4</li> <li>5</li> <li>O SCALE</li> </ul>	ROVIDE CONTINUOUS S PLIFT LOADS GREATER EFER TO TABLE N1102.1 SL COLUMNS DESIGNED ROVIDE A MINIMUM OF S AXIMUM MASONRY PEIF IS THE CONTRACTORS INDALL ENGINEERING S IS THE CONTRACTORS INDALL ENGINEERING S 0.35 0.35 0.35 0.35 0.35 0.35 0.35 0.35	HEATHING PER S THAN 500# SHAL I FOR PRESCRIPT D WITH MAXIMUM 500# UPLIFT & LA COUTH UPLIFT & LA RESPONSIBILITY DESIGN, PA IS N U-FACTOR 0.55 0.55 0.55 0.55 0.55 0.55 0.55 0.5	SECTION 602.10.3 OF L BE CONTINUOUSL TIVE BUILDING ENVE HEIGHT OF 9'-0" (U.I TERAL CONNECTION NOT EXCEED FOUR Y TO VERIFY ALL DIM NOT RESPONSIBLE F GLAZED FENESTRATION SHGC <sup>b,k</sup> 0.30 0.30 0.30 0.30 NR MATE ZONES 3-5 SS AND SHGC ARE MAXIMUMS LED R-VALUE OF THE INSULAT INM EXCLUDED SKYLIGHTS. T. GLAZED FENESTRATION ULATED SHEATHING ON THE ITHE FOLOBORY LIGHTS. T. GLAZED FENESTRATION COM INITUAL AND CODE COMPLIA DION INITUAL 3.3. A MAXIMUM CODE MINIMUM CODE COMPLIA	THE 2018 NCRC Y ANCHORED TO ELOPE THERMAL N.O.) N AT TOP AND B TIMES ITS LEAS MENSIONS AND S FOR DIMENSION CEILING M R-VALUE 38 or 30 cont 38 or 30 cont 100 SHALL NOT BE LESS WHEN INSULATION IS I TITON SHALL NOT BE LESS WHEN INSULATION IS I TITON SHALL NOT BE LESS SLABS. COLATIONS AS DEFINED MINIMUM. CONTINUOUS INSULATION S OF TWO GLAZED FENE HAN HALF THE INSULATION OF TWO GLAZED FENE THENESTRATION PRO M OF TWO GLAZED FENE NT FENESTRATION PRO	COMPONENT C COMPONENT C COMPONENT C COTTOM OF PORC T HORIZONTAL I CONTOM OF PORC T HORIZONTAL I CONTOM OF PORC CONSQUARE FOOTAC OR SQUARE FOOTAC OR SQUARE FOOTAC OR SQUARE FOO TAS ENTITION SQUARE FO TAS TAME TO TAKE TAS TAME TO TAKE TAME TO THE STATE OF THE HOME PACE WALL NIVARD TO THE BOTTIC TIME SLABS, INSULATION SCIENT OF THE HOME PACE WALL SCIENT OF THE HOME PACE WALL NIVARD TO THE BOTTIC TIME SLABS, INSULATION SCIENT OF THE HOME PACE WALL NIVARD TO THE BOTTIC TIME SLABS, INSULATION SCIENT OF THE HOME PACE WALL SCIENT OF THE HOME PACE WALL NIVARD TO THE BOTTIC TIME SLABS, INSULATION SCIENT OF THE HOME PACE WALL NIVARD TO THE BOTTIC TIME SLABS, INSULATION SCIENT OF THE HOME PACE WALL NIVARD TO THE BOTTIC TIME SLABS, INSULATION SCIENT OF THE HOME PACE WALL NIVARD TO THE BOTTIC TIME SLABS, INSULATION SCIENT SCIENT OF THE HOME PACE WALL NIVARD TO THE BOTTIC TIME SLABS, INSULATION SCIENT OF THE HOME PACE WALL NIVARD TO THE BOTTIC TIME SLABS, INSULATION SCIENT OF THE HOME PACE WALL NIVARD TO THE BOTTIC TIME SLABS, INSULATION SCIENT SCIE	ON. RITERIA. COLUMNS. (U.N.C. MENSION. EPRIOR TO CONST DTAGE ERRORS ON MASS WALL R-VALUE n <u>5/13 or</u> 5/10 cont n <u>5/13 or</u> 5/10 cont n <u>5/13 or</u> 5/10 cont n <u>5/13 or</u> 13/12.5 cont MASS CONT N CONTRACTOR N CONTRACTOR CONTRACTOR N CONTRACTOR CONTRAC	.) RUCTION. CE CONSTRUCTION FLOOR FLOOR 19 19 19 30 9 EL OR DESIGN THICKNESS 5 INSULATED OF THE EXTERIOR. IN 25 PERCENT R NO GREATER THAN 0.55 O GREATER THAN 0.75 SHOWN	N BEGINS. BASEMENT <sup>C, f</sup> WALL R-VALUE <u>5/13</u> <sup>f</sup> <u>10/15</u> <u>10/15</u>	SLAB d R-VALUE AND DEPTH 0 10 10	CRAWL SPACE WALL R-VALUE 5/13 <u>10/15</u> <u>10/19</u>		D. E.	POST 4 x 6 x 2 x 6 DIAGON/ (2) PEF TO THI THE 2 J DIPPEI FOR EMBEDM
<ul> <li>PR(</li> <li>UPI</li> <li>REf</li> <li>PSI</li> <li>PR(</li> <li>O MA:</li> <li>TYP</li> <li>MATE</li> <li>NES</li> <li>3</li> <li>4</li> <li>5</li> <li>O SCALE</li> </ul>	ROVIDE CONTINUOUS S PLIFT LOADS GREATER EFER TO TABLE N1102.1 SL COLUMNS DESIGNED ROVIDE A MINIMUM OF S AXIMUM MASONRY PEIF IS THE CONTRACTORS NDALL ENGINEERING S THE CONTRACTORS NDALL ENGINEERING S 0.35 0.1015 <sup>°</sup> MEAP 0 FTHE F SHALL ENGINEERING 0 FTHE F SHALL ENGINE 0 FTHE F SHALL ENGINE 1 FOR MONDO 0 FTHE F SHALL ENGINE 1 FOR MONDO 1 FOR MONDO	HEATHING PER S THAN 500# SHAL I FOR PRESCRIPT D WITH MAXIMUM 500# UPLIFT & LA Stop# UPLIFT & LA R HEIGHT SHALL RESPONSIBILITY D DESIGN, PA IS N U-FACTOR 0.55 0.55 0.55 0.55 0.55 0.55 0.55 0.5	SECTION 602.10.3 OF L BE CONTINUOUSL TIVE BUILDING ENVE HEIGHT OF 9'-0" (U.I TERAL CONNECTION NOT EXCEED FOUR A TO VERIFY ALL DIM NOT EXCEED FOUR A TO VERIFY ALL DIM NOT RESPONSIBLE F CONTRESPONSIBLE F CONTRESP	THE 2018 NCRC Y ANCHORED TO ELOPE THERMAL N.O.) N AT TOP AND BU TIMES ITS LEAS MENSIONS AND S FOR DIMENSION CEILING	COMPONENT C COMPONENT C COMPONENT C OTTOM OF PORC T HORIZONTAL I SQUARE FOOTAC OR SQUARE FOOTAC OR SQUARE FO FRAMED WAL R-VALUE <u>15 or</u> <u>13 + 2.5</u> <u>15 or</u> <u>15 + 3</u> <u>15 structural sheat</u> <u>15 structural sheat <u>15 structural sheat <u>15 structural sheat <u>15 structural s</u></u></u></u>	ON. RITERIA. H COLUMNS. (U.N.C) MENSION. PIMENSION. PIM	.) RUCTION. CE CONSTRUCTION FLOOR FLOOR R-VALUE 19 19 19 30 9 CONTRUCTION S INSULATED OF THE EXTERIOR, IN 25 PERCENT R NO GREATER THAN 0.75 SHO OF THE EXTERIOR, IN 25 PERCENT R NO GREATER THAN 0.70 SHO NO GR	N BEGINS.  BASEMENT <sup>C, f</sup> WALL R-VALUE <u>5/13</u> f <u>10/15</u> <u>10/15</u> <u>10/15</u> <u>10/15</u> <u>10/15</u> <u>10/15</u>	SLAB d R-VALUE AND DEPTH 0 10 10	CRAWL SPACE WALL R-VALUE 5/13 <u>10/15</u> <u>10/19</u>		D. E.	POST 4 x 6 x 2 x 6 DIAGON/ (2) PEF TO THI THE 2 : DIPPEI FOR EMBEDM DRBELLED BF C BUILDING CO BRICK ( 4" BRICK (TYI
PR(           UPI           PSI           PR(           PSI           PR(	ROVIDE CONTINUOUS S PLIFT LOADS GREATER EFER TO TABLE N1102.1 SL COLUMNS DESIGNED ROVIDE A MINIMUM OF S AXIMUM MASONRY PEIF IS THE CONTRACTORS INDALL ENGINEERING S FENESTRATION U-FACTOR 0.35 0.7 THE FINEST SHEAT SHEAT INSULAT I. FOR MASS W I. NADDITION PERMITTH I. R.30 SHALL I. R.19 FIBERG OF THE A NULAT I. R. INADDITION PERMITTH I. R.30 SHALL I. R. INADDITION DELETED I. RADDITION DELETED I. RADDITION DERMITTH I. R.30 SHALL I. TABLE VALU I. TABLE VALU I. R. INADDITION PERMITTH I. R.30 SHALL I. R. INADDITION DELETED I. R. INADDITION DERMITTH I. R.30 SHALL I. R. INADDITION DELETED I. R. INADDITION DELETION I. R. INADDITION I. R.	HEATHING PER S THAN 500# SHAL I FOR PRESCRIPT O WITH MAXIMUM 500# UPLIFT & LA RESPONSIBILITY & DESIGN, PA IS N SKYLIGHT b U-FACTOR 0.55 0.55 0.55 0.55 0.55 0.55 0.55 0.5	SECTION 602.10.3 OF L BE CONTINUOUSL TIVE BUILDING ENVE HEIGHT OF 9-0" (U.I. TERAL CONNECTION NOT EXCEED FOUR 'TO VERIFY ALL DIN NOT EXCEED FOUR 'TO VERIFY ALL DIN NOT RESPONSIBLE F GLAZED FENESTRATION SHGC <sup>b,k</sup> 0.30 0.30 0.30 NR MATE ZONES 3-( SAND SHGC ARE MAXIMUMS LED R-VALUE OF THE INSULAT INN EXCLUDED SKYLIGHTS. T GLAZED FENESTRATION. ULA TED SHEATHING ON THE ITHE INTERIOR OF THE BASEM SHALL BE APPLIED FROM THE THE INTERIOR OF THE BASEM SHALL BE APPLIED FROM THE THE FRAMING CAVITY. R-19 M 10N, THE SECOND VALUE IS C CAUTY INSULATION. PLUS R-3. REQUIRED IN WARM-HUMID LI THE FRAMING CAVITY. R-19 M 10N, THE SECOND VALUE IS C CAUTY INSULATION NULL OR DEG R-VALUES FOR HEATED S REQUIRED WHER THE STRUI PPLEMENTED WITH INSULATE NG. LUE APPLIES WHEN MORE THE CONTINUE SCOND VALUE IS C CAUTY INSULATION. PLUS R-3. REQUIRED IN WARM-HUMID LI THE FRAMING CAVITY. R-19 M 10N, THE SECOND VALUE IS C CAUTY INSULATION NULL OR DISCUMPLIANCE THE SCOND THE SECOND VALUE IS C CONTINION CODE COMPLIANCE INCOMPLIES WHEN HEATED S REQUIRED WHEN THE STRUIP POLLEMENTED WITH INSULATION RESONAL OR IN INSULATION RESONAL OR INSULATION RESONAL	THE 2018 NCRC Y ANCHORED TO ELOPE THERMAL N.O.) N AT TOP AND B TIMES ITS LEAS MENSIONS AND S FOR DIMENSION CEILING M R-VALUE 38 or 30 cont 38 or 30 cont 30 co	COMPONENT C COMPONENT C COMPONENT C DTTOM OF PORC T HORIZONTAL I SQUARE FOOTAC OR SQUARE FOOTAC OR SQUARE FO THORIZONTAL I SQUARE FOOTAC OR SQUARE FO TAMED WALL R-VALUE <u>15 or</u> 13 + <u>2.5</u> <u>15 or</u> <u>13 + 2.5</u> <u>15 or</u> <u>13 + 2.5</u> <u>13 + 2.5</u>	ON. RITERIA. H COLUMNS. (U.N.C) H COLUMNS. (U.N.C) H COLUMNS. (U.N.C) MENSION. E PRIOR TO CONST DTAGE ERRORS ON H CONST H CONST DTAGE ERRORS ON H CONST H CONST DTAGE ERRORS ON H CONST H CONS	.) RUCTION. CE CONSTRUCTIO FLOOR FLOOR FLOOR I OPENING SINSULATED FTHE EXTERIOR, IN 25 PERCENT R NO GREATER THAN 0.55 OPENING OVER THE W THE INSULATION BAFFLE LLTHE SPACE UP TO THE OR 19 OR HIGHER COMPR UM REQUIREMENT.	N BEGINS.  BASEMENT <sup>0,4</sup> WALL R-VALUE <u>5/13</u> <sup>f</sup> <u>10/15</u> <u>10/15</u> <u>10/15</u> <u>10/15</u> <u>All BE</u> LL BE	2 SLAB d R-VALUE AND DEPTH 0 10 10	CRAWL SPACE WALL R-VALUE 5/13 10/15 10/19		D. E.	POST 4 x 6 x 2 x 6 DIAGON/ (2) PEF TO THI THE 2: DIPPEI FOR EMBEDM DRBELLED BF BUILDING CI BRICK ( 4" BRICK (TY)
) PR( ) UPI ) PSI ) PSI ) PR( ) MAT ) IT IS TYP MATE DNES 3 4 5	ROVIDE CONTINUOUS S PLIFT LOADS GREATER EFER TO TABLE N1102.1 SL COLUMNS DESIGNED ROVIDE A MINIMUM OF S AXIMUM MASONRY PEIF IS THE CONTRACTORS INDALL ENGINEERING S INDALL ENGINEERING S INDALE S	HEATHING PER S THAN 500# SHAL I FOR PRESCRIPT O WITH MAXIMUM 500# UPLIFT & LA COUTH UPLIFT & LA RESPONSIBILITY DESIGN, PA IS N COUTONING NOT A USE 0.55 0.55 0.55 0.55 0.55 0.55 0.55 0.5	SECTION 602.10.3 OF L BE CONTINUOUSL TIVE BUILDING ENVE HEIGHT OF 9'-0" (U.I. TERAL CONNECTION NOT EXCEED FOUR 'TO VERIFY ALL DIM NOT EXCEED FOUR 'TO VERIFY ALL DIM NOT RESPONSIBLE F GLAZED FENESTRATION SHGC <sup>b,k</sup> 0.30 0.30 0.30 0.30 0.30 NR MATE ZONES 3-5 SS AND SHGC ARE MAXIMUMS LED R-VALUE OF THE INSULA INN EXCLUDED SKYLIGHTS.T . GLAZED FENESTRATION. ULATED SHEATHING ON THE ITHE INTERIOR OF THE BASEM SAND SHGC ARE MAXIMUMS LED R-VALUE OF THE INSULA INN EXCLUDED SKYLIGHTS.T . GLAZED FENESTRATION. ULATED SHEATHING ON THE ITHE INTERIOR OF THE BASEM IS AND SHGC ARE MAXIMUMS LED R-VALUE OF THE INSULATION. ULATED SHEATHING ON THE IS CALZED FENESTRATION. ULATED SHEATHING CONTE IS CALZED FOND TO THE BASEM IS AND SHEATURE THE STRUP PPLEMENTED WITH INSULATE IS CALVITY INSULATION READ UNCLUS REQUIRED IN WARM-HUMID L THE FRAMING CONTON VALUE AS REQUIRED WHERE THE STRUP PPLEMENTED WITH INSULATE IS CALVITY INSULATION READ UNCLUS REQUIRED WITH INSULATION READ UNCLUS REQUIRED IN INTALLED IN ANDIMINE READ OF EDGE WHERE THE STRUP PLO AND INSTALLED IN AND ALL AS PLO READ INSTALLED IN AND ALL AS PLO READ INSTALLED IN A ANO	THE 2018 NCRC Y ANCHORED TO ELOPE THERMAL N.O.) N AT TOP AND B TIMES ITS LEAS MENSIONS AND S FOR DIMENSION CEILING M R-VALUE 38 or 30 cont 38 or 30 cont 100 SHALL NOT BE LESS WHEN INSULATION IS I TITON SHALL NOT BE LESS HE SOLAR HEAT GAIN C INTERIOR OR EXTERIOR ENT WALL OR CRAWL SI HE INSPECTION GAP DOI VER IS LESS. FOR FLOP 247. WHICHEVER IS LESS SLABS. CONTINUAUS INSULATION INTERIOR OR EXTERIOR ENT WALL OR CRAWL SI HE INSPECTION GAP DOI VER IS LESS. FOR FLOP VER I	COMPONENT C COMPONENT C COMPONENT C CONTOM OF PORC T HORIZONTAL I CONTOM OF PORC T HORIZONTAL I CONTOM OF PORC CONTON CONTENT CONTONIC CON	ON. RITERIA. H COLUMNS. (U.N.C) H COLUMNS. (U.N.C) H COLUMNS. (U.N.C) MENSION. F PRIOR TO CONST DTAGE ERRORS ON H COLORST DTAGE ERRORS ON H COLORST OTAGE ERRORS ON H COLORST	.) RUCTION. CE CONSTRUCTIO  FLOOR FLOOR I I I I I I I I I I I I I I I I I I	N BEGINS.  BASEMENT C.4 WALL R-VALUE 5/13 f 10/15 10/15 10/15 SHALL BE LL BE ALL TOP PLATE OR WITHIN 1 INCH AIR BAFFLE. SSED	SLAB d R-VALUE AND DEPTH 0 10 10	CRAWL SPACE WALL R-VALUE 5/13 10/15 10/19		D. E.	POST 4 x 6 x 2 x 6 DIAGON/ (2) PEF TO THI THE 2 DIPPEI FOR EMBEDM DRBELLED BF C BUILDING CO BRICK ( 4" BRICK (TY)
) PR( ) UPI ) PSI ) PSI ) PR( ) MAT ) IT IS TYP MATE DNES 3 4 5 10 SCALE	COVIDE CONTINUOUS S PLIFT LOADS GREATER EFER TO TABLE N1102.1 SL COLUMNS DESIGNED COVIDE A MINIMUM OF S AXIMUM MASONRY PEIF IS THE CONTRACTORS NDALL ENGINEERING S THE CONTRACTORS NDALL ENGINEERING S FENESTRATION U-FACTOR 0.35 0.1015 MEAN OR THE SHALL ENGINEERING 0 FTHE F SHALL ENGINEERING 0 FTHE F SHALL ENGINE 0 FTHE F SHALL ENGINE 1 FOR MONOL 0 FTHE F SHALL ENGINE 1 FOR MONOL 1 FOR MON	HEATHING PER S THAN 500# SHAL I FOR PRESCRIPT D WITH MAXIMUM 500# UPLIFT & LA COUT UPLIFT & LA RESPONSIBILITY & DESIGN, PA IS N COUT OF SHALL RESPONSIBILITY & DESIGN, PA IS N COUT OF COURT O.55 0.55 0.55 0.55 0.55 0.55 0.55 0.55	SECTION 602.10.3 OF L BE CONTINUOUSL TIVE BUILDING ENVE HEIGHT OF 9-0" (U.I TERAL CONNECTION NOT EXCEED FOUR A TO VERIFY ALL DIN NOT EXCEED FOUR A TO VERIFY ALL DIN NOT RESPONSIBLE F GLAZED FENESTRATION SHGC <sup>b,k</sup> 0.30 0.4 IATE ZONES 3-5 IS AND SHGC ARE MAXIMUMS LED RVALUE OF THE INSUMATION SHALL BE APPLIED FROM THE IF THE FOUNDATION WALL OR DOGE R-VALUES FOR HEATED S REQUIRED IN WARM-HUMD L THE FRAMING CAVITY. R-19 M ION, THE SECOND VALUE IS C CAVITY INSULATION. PLUS R-3 REQUIRED IN WARM-HUMD L THE FOUNDATION WALL OR DOGE R-VALUES FOR HEATED S REQUIRED IN WARM-HUMD L THE FOR MINIMUM CODE COMPLIA ST. OF REQ'D VENTIL T. OF REQ'D VENTIL T. OF REQ'D VENTIL	THE 2018 NCRC Y ANCHORED TO ELOPE THERMAL N.O.) N AT TOP AND B TIMES ITS LEAS MENSIONS AND S FOR DIMENSION CEILING CEILING CEILING CEILING CEILING CEILING CEILING CONT 38 or 30 cont j 38 or 30 cont j 38 or 30 cont j 38 or 30 cont j 38 or 30 cont j 55 WHEN INSULATION IS I TION SHALL NOT BE LESS INTERIOR OR EXTERIOR INTERIOR OR EXTERIOR INTERIOR OR EXTERIOR INTERIOR OR EXTERIOR INTERIOR OR EXTERIOR INTERIOR OR EXTERIOR INTERIOR OR EXTERIOR SLASS. COLTIONS AS DEFINED MINUM. CONTINUOUS INSULATION IS I TON GLAZED FENE THEN STRATION PROI M OF TWO GLAZED FENE INT FENESTRATION PROI M OF TWO GLAZED FENE INT FENESTRATION PROI M OF TWO GLAZED FENE COLTION FOR CALLED BY THE NAL 2 × 6 FRAMING CAVI AT CONTENT REQUIREM	COMPONENT C COMPONENT C COMPONENT C OTTOM OF PORC T HORIZONTAL I SQUARE FOOTAC OR SQUARE FOOTAC OR SQUARE FO TAMED WAL R-VALUE <u>15 or</u> <u>13 + 2.5</u> <u>15 or</u> <u>15 structural sea JSED. IF STRUCTURAL SHEA JSED. IF STRUCTURAL</u>	ON. RITERIA. H COLUMNS. (U.N.C. MENSION. F PRIOR TO CONST DTAGE ERRORS ON MASS MASS MALL R-VALUE n 5/13 or 5/10 cont n 5/13 or 5/10 cont n 5/13 or 5/10 cont n 13/17 or n 13/12.5 cont MICH IS LESS THAN THE LABE ECIFIED IN THE TABLE.	.) RUCTION. CE CONSTRUCTIO  FLOOR FLOOR FLOOR I I I I I I I I I I I I I I I I I I	N BEGINS. BASEMENT <sup>C, f</sup> WALL R-VALUE <u>5/13</u> <sup>f</sup> <u>10/15</u> <u>10/15</u> <u>10/15</u> <u>10/15</u> <u>10/15</u> <u>10/15</u> <u>10/15</u> <u>10/15</u>	SLAB d R-VALUE AND DEPTH 0 10 10	CRAWL SPACE WALL R-VALUE 5/13 <u>10/15</u> <u>10/19</u>		D. E.	POST 4 x 6 x 2 x 6 DIAGON/ (2) PEF TO THI THE 2 : DIPPEI FOR EMBEDM ORBELLED BF BUILDING CO BRICK ( 4" BRICK (TYI
) PR( ) UPI ) REI ) PSI ) PR( ) MA ) TTY MATE DNES 3 4 5 5 10 SCALE	ROVIDE CONTINUOUS S PLIFT LOADS GREATER EFER TO TABLE N1102.1 EFER TO TABLE N1102.1 COVIDE A MINIMUM OF S AXIMUM MASONRY PEIF IS THE CONTRACTORS NDALL ENGINEERING S FENESTRATION U-FACTOR 0.35 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7	HEATHING PER S THAN 500# SHAL I FOR PRESCRIPT D WITH MAXIMUM 500# UPLIFT & LA RESPONSIBILITY & DESIGN, PA IS N SKYLIGHT b U-FACTOR 0.55 0.55 0.55 0.55 0.55 0.55 0.55 0.5	SECTION 602.10.3 OF L BE CONTINUOUSL TIVE BUILDING ENVE HEIGHT OF 9-0" (U.I. TERAL CONNECTION NOT EXCEED FOUR 'TO VERIFY ALL DIN NOT EXCEED FOUR 'TO VERIFY ALL DIN NOT RESPONSIBLE F GLAZED FENESTRATION SHGC <sup>b,k</sup> 0.30 0.30 0.30 0.30 NR MATE ZONES 3-5 IS AND SHGC ARE MAXIMUMS LED R-VALUE OF THE INSULA IMM EXCLUDED SKYLIGHTS. T .GLAZED FENESTRATION. ULATED SHEATHING ON THE ITHE INTERIOR OF THE INSULA INN EXCLUDED SKYLIGHTS. T .GLAZED FENESTRATION. ULATED SHEATHING ON THE ITHE INTERIOR OF THE INSULA INN EXCLUDED SKYLIGHTS. T .GLAZED FENESTRATION. ULATED SHEATHING ON THE ITHE INTERIOR OF THE BASEM SHALL BE APPLIED FROM THE FTHE FOUNDATION WALL OR DOGE R-VALUES FOR HEATED S REQUIRED WHER THE STRUI PPLEMENTED WITH INSULATE ING. LUE APPLIES WHEN MORE THE COTION INTIQ2.33. A MAXIMUM COTON INTIQ2.33. A MAXIMUM COTON INTIQ2.33. A MAXIMUM COTON INTIGUED COMPLIAN THE CEILING INSULATION REQUIRED WHE REQUIRED WHER THE STRUI PPLEMENTED WITH INSULATE ING. LUE APPLIES WHEN MORE THE SCOT EDGE WHERE THE STRUI PPLEMENTED WITH INSULATE ING. LUE APPLIES WHEN MORE THE SCOT EDGE WHERE THE STRUI PROF EDGE WHERE THE STRUI PROF EDGE WHERE THE STRUI PROF EDGE WHERE THE STRUI TO NOT THE SECOND VALUE IS C COMPLIANCE OF COMPLAN COTON INTIGUED AS A MAXIMUM IN COTON INTIGUED AS A MAXIMUM IN COTON INTIGUED AS A MAXIMUM IN COTON INTIGUED IN A MANIMUM INCODE COMPLIAN SCOT EDGE WHERE THE SPE D AND EXCLUDED TO COMPLY. UM MASS WALL SPECIFIC HEF TO OF REQU'D VENTILL PRE VENT = 16 VENTILL PRE VENT = 16 VENTILL PRE VENT = 16 VENTILL COTON INTIGUED IN A MAXIMUM INTIGUED INTIGUED IN A MAXIMUM INTIGUED INTIGUED IN A MAXIMUM INTIGUES COMPLIAN SCOT EDGE WHERE THE SPE D AND DESTRUCTOR INTIGUED IN A MAXIMUM INTIGUES COMPLIAN SCOT EDGE WHERE THE SPE D AND DESTRUCTOR INTIGUES	THE 2018 NCRC Y ANCHORED TO ELOPE THERMAL N.O.) N AT TOP AND B TIMES ITS LEAS MENSIONS AND S FOR DIMENSION CEILING CEILING CEILING CEILING CEILING CEILING CEILING CONT S CONT CONT S CONT S CONT S CONT S CONT S CONT S CONT S CONT S CONT C CONT S CONT S CONT S CONT C C C CONT C C C C C C C C C C C C C C C C C C C	COMPONENT C COMPONENT C COMPONENT C OTTOM OF PORC T HORIZONTAL I SQUARE FOOTAC OR SQUARE FOOTAC OR SQUARE FO ISOU FRAMED WAL R-VALUE <u>15 or</u> <u>13 + 2.5</u> <u>15 or</u> <u>13 + 2.5</u> <u>13 + 2.5</u> <u>15 or</u> <u>13 + 2.5</u> <u>13 + 2.5</u> <u>13</u>	ON. RITERIA. H COLUMNS. (U.N.C. H COLUMNS. (U.N.C. H COLUMNS. (U.N.C. MENSION. PINENSION. PINERSION. H COLUMNS. ON CONST DAGE ERRORS ON CONST CONSTRUCTION CONST CONSTRUCTION CONST CONSTRUCTION CONST CONSTRUCTION PLUS R- TABLE N1101.7. CONSTRUCTION CONSTRUCTION SR-13 CAVITY AASS WALL. SEMBLIES HAVING A U-FACTO DUT PENALTY. COMPRESSED R-30 INSULATION CONTRESSED R-30 INSULATION MUST FIT FILE INSULATION MUST FIT WALL R-VALUE AS THE MININ CONTRESSED R-30 INSULATION MUST FIT WALL R-VALUE AS THE MININ	.) RUCTION. CE CONSTRUCTION FLOOR FLOOR FLOOR I I I I I I I I I I I I I I I I I I	N BEGINS.  BASEMENT <sup>C,4</sup> WALL R-VALUE <u>5/13</u> f <u>10/15</u> <u>10/15</u> <u>10/15</u> <u>10/15</u> <u>10/15</u> <u>All BE</u> <u>All TOP PLATE</u> OR WITHIN 1 INCH AR BAFFLE. ESSED	2 SLAB d R-VALUE AND DEPTH 0 10 10	CRAWL SPACE WALL R-VALUE 5/13 10/15 10/19		D. E. CI PER NO	POST 4 x 6 x 2 x 6 DIAGON/ (2) PEF TO THI THE 2 : DIPPER FOR EMBEDM ORBELLED BF C BUILDING C BRICK ( 4" BRICK (TYN
) PR( ) UPI ) REI ) PSI ) PR( ) MAT ) IT IS IMATE DNES 3 4 5 5 10 SCALE	ROVIDE CONTINUOUS S PLIFT LOADS GREATER EFER TO TABLE N1102.1 SL COLUMNS DESIGNED ROVIDE A MINIMUM OF S AXIMUM MASONRY PEIF IS THE CONTRACTORS INDALL ENGINEERING S FENESTRATION U-FACTOR 0.35 0.4 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	HEATHING PER S THAN 500# SHAL FOR PRESCRIPT O WITH MAXIMUM 500# UPLIFT & LA RESPONSIBILITY DESIGN, PA IS N SKYLIGHT b U-FACTOR 0.55 0.55 0.55 0.55 0.55 0.55 0.55 0.5	SECTION 602.10.3 OF L BE CONTINUOUSL TIVE BUILDING ENVE HEIGHT OF 9-0" (U.I. TERAL CONNECTION NOT EXCEED FOUR 'TO VERIFY ALL DIN NOT EXCEED FOUR 'TO VERIFY ALL DIN NOT RESPONSIBLE F GLAZED FENESTRATION SHGC <sup>b,k</sup> 0.30 0.30 NR MATE ZONES 3-5 SAND SHGC ARE MAXIMUMS LED R-VALUE OF THE INSULA INN EXCLUDED SKYLIGHTS. T. GLAZED FENESTRATION. ULATED SHGC ARE MAXIMUMS LED R-VALUE OF THE INSULA SAND SHGC ARE MAXIMUMS LED R-VALUE OF THE INSULA INN EXCLUDED SKYLIGHTS. T. GLAZED FENESTRATION. ULATED SHEATHING ON THE ITHE INTERIOR OF THE BASEM SHALL BE APPLIED FROM THO 72 J <sup>4</sup> BELOW GRADE WHICHE STALLES FOR HEATED S REQUIRED IN WARM-HUMID LI THE FRAMING CAVITY. R-19 M TON, THE SECOND VALUE IS CO CAVITY INSULATION. PLUS STRUM INN THE SECOND VALUE IS CO CAVITY INSULATION WALL OR DOGE R-VALUES FOR HEATED S REQUIRED IN WARM-HUMID LI THE FRAMING CAVITY. R-19 M TON, THE SECOND VALUE IS CO CAVITY INSULATION. PLUS STRUM INN THE SECOND VALUE IS CO CAVITY INSULATION WALL OR DOGE R-VALUES FOR HEATED S REQUIRED IN WARM-HUMID LI THE FRAMING CAVITY. R-19 M TON, THE SECOND VALUE IS CO CAVITY INSULATION. PLUS STRUM INN THO STRUMANTON THE STRUM PEDUES WHEN HEATED STRUM INN TO THE SECOND VALUE IS CO CAVITY INSULATION. PLUS STRUM INN THE SECOND VALUE IS CO CAVITY INSULATION. PLUS STRUM INN CODE COMPLIA INN THE SECOND VALUE IS CO CAVITY INSULATION IN CODE COMPLIA INN THE SECOND VALUE IS CO CAVITY INSULATION INSULATION REAL INN THE SECOND VALUE IS CO CAVITY INSULATION INSULATION REAL INN THE SECOND VALUE IS CO CAVITY INSULATION INSULATION REAL INN THE SECOND VALUE IS CO TO TO REAL THE INSULATION REAL INN THE SECOND VALUE IS CO INN THE SECOND VALUE IS CO INN THE SECOND VALUE IS CO CAVITY INSULATION INSULATION REAL INN THE SECOND VALUE IS COMPLIA INN CODE COMPLIAN INN C	THE 2018 NCRC Y ANCHORED TO ELOPE THERMAL N.O.) N AT TOP AND B TIMES ITS LEAS MENSIONS AND S FOR DIMENSION CEILING M CEILING M R-VALUE 38 or 30 cont 38 or 30 cont 100 SHALL NOT BE LESS WHEN INSULATION IS I TION SHALL NOT BE LESS WHEN INSULATION IS I TION SHALL NOT BE LESS WHEN INSULATION IS I TION SHALL NOT BE LESS WHEN INSULATION GAP DOI 244, WHICHEVER IS LESS COATIONS AS DEFINED ANTINUOUS INSULATION SINSULATED SHEATHING OF AT LE SHEATHING OF AT LE SHEATHING OF AT LE SHEATHING OF AT LE SHEATHING OF AT LE ANT FENESTRATION PROI MIT FENESTRATION PROI MAL 2 × 6 FRAMING CAVI AT CONTENT REQUIREM ACTION WITHOUT NTS REQ'D (BASI ATION WITHOUT ATION WITHOUT	CONTOM OF PORC CONTOM OF PORC T HORIZONTAL I CONTOM OF PORC T HORIZONTAL I CONTOM OF PORC T HORIZONTAL I CONTOM OF PORC CONSQUARE FOOTAC OR SQUARE FOOTAC OR SQUARE FOOTAC OR SQUARE FOOTAC OR SQUARE FOO TAL SQUARE FOOTAC OR SQUARE FOO TAL SQUARE FOOTAC OR SQUARE FOO TAL SQUARE FOOTAC OR SQUARE FOO FRAMED WAL R-VALUE 15 or 13 + 2.5 15 or 13 + 2.5 15 or 13 + 2.5 15 or 13 + 2.5 15 or 13 + 2.5 0 r 15 + 3 0 r 15 + 10 r 10 r 10 r 10 N SO THE INTERIOR STRATION PRODUCT AS DUCT ASSEMBLIES WITH THE FULL HEIGHT OF UN NOCE EXISTS OR INSULATION STRATION PRODUCT AS DUCT ASSEMBLIES WITH THE FULL HEIGHT OF UN NOCE EXISTS OR INSULATION STRATION PRODUCT AS DUCT ASSEMBLIES WITH THE FULL HEIGHT OF UN NOCE EXISTS OR INSULATION STRATION PRODUCT AS DUCT ASSEMBLIES WITH THE FULL HEIGHT OF UN NOCE EXISTS OR INSULATION STRATION PRODUCT AS DUCT ASSEMBLIES WITH THE FULL HEIGHT OF UN NOCE EXISTS OR INSULATION STRATION PRODUCT AS DUCT ASSEMBLIES WITH THE FULL HEIGHT OF UN NOCE EXISTS OR INSULATION STRATION PRODUCT AS DUCT ASSEMBLIES WITH THE FULL HEIGHT OF UN NOCE EXISTS OR INSULATION STRATION PRODUCT AS DUCT ASSEMBLIES WITH THE FULL HEIGHT OF UN NOCE EXISTS OR INSULATION STRATION PRODUCT AS DUCT ASSEMBLIES WITH THE FULL HEIGHT OF UN NOCE EXISTS OR INSULATION STRATION PRODUCT AS DUCT ASSEMBLIES WITH THE FULL HEIGHT OF UN NOCE EXISTS OR INSULATION STRATION PRODUCT AS DUCT ASSEMBLIES WITH THE FULL HEIGHT OF UN NOCE EXISTS OR INSULATION STRATION PRODUCT AS DUCT ASSEMBLIES WITH THE FULL HEIGHT OF UN NOCE EXISTS OR INSULATION STRATION PRODUCT AS DUCT ASSEMBLIES WITH THE FULL HEIGHT OF UN NOCE EXISTS OR INSULATION STRATION PRODUCT AS DUCT ASSEMBLIES WITH THE FULL HEIGHT OF UN NOCE EXISTS OR INSULATION STRATION PRODUCT AS DUCT ASSEMBLIES WITH THE FULL HEIGHT OF UN NOCE EXISTS OR INSULATION AND AND AND AND AND AND AND AND AND AN	ON. RITERIA. H COLUMNS. (U.N.C) H COLUMNS. (U.N.C) H COLUMNS. (U.N.C) MENSION. E PRIOR TO CONST DTAGE ERRORS ON H COLORST DTAGE ERRORS ON H COLORST DTAGE ERRORS ON H COLORST DTAGE ERRORS ON H COLORST DTAGE ERRORS ON H COLORST H COLOR H COLORST H	.) RUCTION. CE CONSTRUCTION CE CONSTRUCTION i FLOOR R-VALUE 19 19 19 19 10 19 10 10 10 19 10 10 10 10 10 10 10 10 10 10 10 10 10	N BEGINS.  BASEMENT <sup>C,4</sup> WALL R-VALUE <u>5/13</u> <sup>f</sup> <u>10/15</u> <u>10/15</u> <u>10/15</u> <u>10/15</u> <u>All BE</u> LL BE LL BE LL BE LL BE LL BE LL BE	2 SLAB d R-VALUE AND DEPTH 0 10 10	CRAWL SPACE WALL R-VALUE 5/13 10/15 10/19		D. E. COPER NO	POST 4 x 6 x 2 x 6 DIAGON/ (2) PEF TO THI THE 2 DIPPER FOR EMBEDM DRBELLED BF BUILDING CI BRICK ( 4" BRICK (TYI
) PR( ) UPI ) REI ) PSI ) PR( ) MAI ) IT I IMATE DNES 3 4 5 NO SCALE	ROVIDE CONTINUOUS S PLIFT LOADS GREATER EFER TO TABLE N1102.1 SL COLUMNS DESIGNEE ROVIDE A MINIMUM OF SL AXIMUM MASONRY PEIF IS THE CONTRACTORS INDALL ENGINEERING SL FENESTRATION U-FACTOR D.35 0.1015 MEAN 0R R-15 0. FTHE FIRST SHALL ENGINE I MADDITON PERMITTI I. RADDITON PERMITTI I. RADDITON I. RADDITON I	HEATHING PER S THAN 500# SHAL I FOR PRESCRIPT O WITH MAXIMUM 500# UPLIFT & LA R HEIGHT SHALL RESPONSIBILITY D DESIGN, PA IS N SKYLIGHT b U-FACTOR 0.55 0.55 0.55 0.55 0.55 0.55 0.55 0.5	SECTION 602.10.3 OF L BE CONTINUOUSL TIVE BUILDING ENVE HEIGHT OF 9-0" (U.I TERAL CONNECTION NOT EXCEED FOUR (TO VERIFY ALL DIN NOT EXCEED FOUR (TO VERIFY ALL DIN NOT RESPONSIBLE F GLAZED FENESTRATION SHGC <sup>b,k</sup> 0.30 0.30 0.30 0.30 NR MATE ZONES 3.5 REQUIRED KALL OF THE INSULA IN EXCLUDED SKYLIGHTS. T. GLAZED FENESTRATION. ULATED SHEATHING ON THE IT FOUNDATION WALL OR DIALED RVALUE OF THE INSULA SHALL BE APPLIED FROM THE OF 24" BELOW GRADE WHICH IT THE FOUNDATION WALL OR DOGE R-VALUES FOR HEATED S REQUIRED WHERE THE STRUP PLEMENTED WITH INSULATED SH REQUIRED WHERE THE STRUP PLEMENTED WITH INSULATION. IN THE SECOND VALUE IS C CAVITY INSULATION. PLUS RS REQUIRED WHERE THE STRUP PLEMENTED WITH INSULATED SH IN MINIMUM CODE COMPLIA SECTION N1102.3.3.A MAXIMUM OT MENIMUM CODE COMPLIA SECOND VALUE IS FOR HEATED S REQUIRED WITH INSULATED SH REQOF EDGE WHERE THE STRUP PLEMENTED WITH INSULATED SH ST. OF REQ'D VENTILE PREVENT = 16 VEN -OR- D. FT. OF REQ'D VENTILE PER VENT = 16 VEN -OR- D. FT. OF REQ'D VENTILE PER VENT = 16 VEN -OR- D. FT. OF REQ'D VENTILE PER VENT = 1.57 IOWEVER VENTS SHAIL I RF PI	THE 2018 NCRC Y ANCHORED TO ELOPE THERMAL N.O.) N AT TOP AND B TIMES ITS LEAS MENSIONS AND S FOR DIMENSION AT TOP AND B TIMES ITS LEAS MENSIONS AND S FOR DIMENSION CEILING M R-VALUE 38 or 30 cont 38 or 30 cont 1 38 or 30 cont	2. D THE FOUNDAT COMPONENT C DOTTOM OF PORC T HORIZONTAL I SQUARE FOOTAC OR SQUARE FOOTAC IS OF IST 13 + 2.5 15 or 13 + 2.5 0 r 15 + 3 STALLED IN A CAVITY IS STHAN THE R-VALUE SI OEFFICIENT OF THE HOME PACE WALL WWWARD TO THE BOTTC ITING SLABS, INSULATION IS ON THE INTERIOR STRATION PRODUCT AS DUCT ASSEMBLIES WITH STRATION PRODUCT AS DUCT ASSEMBLIES WITH STRATION PRODUCT AS DUCT ASSEMBLIES WITH STRATION PRODUCT AS DUCT ASSEMBLIES WITH THE FULL HEIGHT OF ONE INTERIOR STRATION PRODUCT AS DUCT ASSEMBLIES WITH TO IS ON THE INTERIOR STRATION PRODUCT AS DUCT ASSEMBLIES WITH THE FULL HEIGHT OF ONE INTERIOR STRATION PRODUCT AS DUCT ASSEMBLIES WITH STRATION PRODUCT AS DUCT ASSEMBLIES WITH STRATION PRODUCT AS DUCT ASSEMBLIES WITH THE FULL HEIGHT OF ONE INTERIOR STRATION PRODUCT AS DUCT ASSEMBLIES WITH STRATION PRODUCT AS STRATION PRODUCT AS	ON. RITERIA. CONSTRUCTION RITERIA. CONSTRUCTION RITERIA. CONSTRUCTION RITERIA. CONSTRUCTION	.) RUCTION. CE CONSTRUCTION FLOOR FL	N BEGINS.  BASEMENT C, 4 WALL R-VALUE 5/13 10/15 10/15 10/15 SHALL BE LL BE LL BE LL BE ALL TOP PLATE OR WITHIN 1 INCH AIR BAFFLE. ESSED	SLAB d R-VALUE AND DEPTH 0 10 10	CRAWL SPACE WALL R-VALUE 5/13 <u>10/15</u> <u>10/19</u>		D. E. CI PER NO	POST 4 x 6 x 2 x 6 DIAGON/ (2) PEF TO THI THE 2 : DIPPET FOR EMBEDM ORBELLED BF C BUILDING C BRICK ( 4" BRICK (TY)
<ul> <li>PR(</li> <li>PR(</li> <li>UPI</li> <li>PSI</li> <li>PSI</li> <li>PR(</li> <li>PSI</li> <li>PR(</li> <li>PSI</li> <li>PR(</li> <li>PSI</li> <li>PR(</li> <li>PSI</li> <li>PR(</li> <li>PSI</li> <li>PR(</li> <li>PSI</li> <li>PSI</li></ul>	ROVIDE CONTINUOUS S PLIFT LOADS GREATER EFER TO TABLE N1102.1 SECUMINS DESIGNED ROVIDE A MINIMUM OF S AXIMUM MASONRY PEIF IS THE CONTRACTORS NDALL ENGINEERING S FENESTRATION U-FACTOR 0.35 0.4 0 FINE 0 FINE 1 ABLEEN 1 NOULESA 0 FINE 1 ADDITION 0 FINE 1 NOULA 1 NOULTION 1 NOULA 1 NOULA 1 NOULTION 1 NOULA 1 NOULTION 1 NOULA 1 NOULA 1 NOULTION 1 NOULA 1 NOULTION 1 NOULA 1 NOULTION 1 NOULA 1 NOULTION 1 NOULA 1 NOULA 1 NOULA 1 NOULA 1 NOULTION 1 NOULA 1 NOULA 1 NOULA 1 NOULTION 1 NOULA 1 NOULTION 1 NOULA 1 NOULA 1 NOULTION 1 NOULA 1 NOULA 1 NOULA 1 NOULTION 1 NOULA 1	HEATHING PER S THAN 500# SHAL I FOR PRESCRIPT O WITH MAXIMUM 500# UPLIFT & LA RESPONSIBILITY & DESIGN, PA IS N SKYLIGHT b U-FACTOR 0.55 0.55 0.55 0.55 0.55 0.55 0.55 0.5	SECTION 602.10.3 OF L BE CONTINUOUSL TIVE BUILDING ENVE HEIGHT OF 9'-0" (U.I TERAL CONNECTION NOT EXCEED FOUR 'TO VERIFY ALL DIN NOT EXCEED FOUR 'TO VERIFY ALL DIN NOT RESPONSIBLE F GLAZED FENESTRATION SHGC <sup>b,k</sup> 0.30 0.30 0.30 0.30 0.30 NR MATE ZONES 3-5 IS AND SHGC ARE MAXIMUMS LED R-VALUE OF THE INSULA IMM EXCLUDED SKYLIGHTS. T. GLAZED FENESTRATION. ULATED SHEATHING ON THE I THE INTERIOR OF THE INSULA INM EXCLUDED SKYLIGHTS. T. GLAZED FENESTRATION. ULATED SHEATHING ON THE I THE INTERIOR OF THE INSULA INM EXCLUDED SKYLIGHTS. T. GLAZED FENESTRATION. ULATED SHEATHING ON THE ISTON OF THE FOUNDATION WALL OR DOGE R-VALUES FOR HEATED S REQUIRED IN WARM-HUMID L THE FRAMING CAVITY. R-19 M ION, THE SECOND VALUE IS C CAVITY INSULATION. PLUS R-3 REQUIRED WHERE THE STRUP PPLEMENTED WHERE THE STRUP PPLEMENTED WHERE THE STRUP ING. LUE APPLIES WHEN MORE THE GOF EDGE COMPLY. UM MASS WALL SPECIFIC HEZ T. OF REQ'D VENTILL PRE VENT = 16 VEN -OR- Q. FT. OF REQ'D VENTILL DI 011020 OF THE CRAWL S D 0	THE 2018 NCRC Y ANCHORED TO ELOPE THERMAL N.O.) N AT TOP AND B TIMES ITS LEAS MENSIONS AND S FOR DIMENSION CEILING R-VALUE 38 or 30 cont 38 or 30 cont 38 or 30 cont 38 or 30 cont 38 or 30 cont 38 or 30 cont 5 WHEN INSULATION IS I TION SHALL NOT BE LESS HE SOLAR HEAT GAIN C INTERIOR OR EXTERIOR ELISSE FOR FLOP 24', WHICHEVER IS LESS SLABS. INTERIOR OR EXTERIOR ELISSE FOR FLOP 24', WHICHEVER IS LESS SLABS. INTERIOR OR EXTERIOR INTERIOR OR EXTERIOR ELISSE FOR FLOP 24', WHICHEVER IS LESS SLABS. INTERIOR OR EXTERIOR INTERIOR OR EXTERIOR AT CONTENT HEREVER AT CONTENT REQUINE AT CONTENT REQUINE ATTION WITHOUT NTS REQ'D (BASI	2. D THE FOUNDAT COMPONENT C DOTTOM OF PORC DOTTOM OF PORC T HORIZONTAL I SQUARE FOOTAC OR SQUARE FOOTAC IS OF SQUARE FOOTAC IS OF IS OF 13 + 2.5 15 or 13 + 2.5 15 or 13 + 2.5 15 or 13 + 2.5 15 or 13 + 2.5 0 f THE HOME PACE WALL INVARD TO THE BOTTC THAN THE R-VALUE SI OEFFICIENT OF THE HOME PACE WALL INVARD TO THE BOTTC THAN THE R-VALUE SI OEFFICIENT OF THE HOME PACE WALL INVARD TO THE BOTTC THAN THE R-VALUE SI OEFFICIENT OF THE HOME PACE WALL INVARD TO THE BOTTC THAN THE R-VALUE SI OEFFICIENT OF THE HOME PACE WALL INVARD TO THE BOTTC THE FULL HEIGHT OF UN N SO "13+5" MEANS R-1 STRATION PRODUCT AS DUCT ASSEMBLIES WITT THE FULL HEIGHT OF UN NO THE INTERIOR SITATION PRODUCT AS DUCT ASSEMBLIES WITT THE FULL HEIGHT OF UN NO THE INTERIOR SITATION PRODUCT AS DUCT ASSEMBLIES WITT THE FULL HEIGHT OF UN NO THE INTERIOR STRATION PRODUCT AS DUCT ASSEMBLIES WITT THE FULL HEIGHT OF UN NO THE INTERIOR SITATION PRODUCT AS DUCT ASSEMBLIES WITT THE FULL HEIGHT OF UN NO THE INTERIOR SITATION PRODUCT AS DUCT ASSEMBLIES WITT THE FULL HEIGHT OF UN NO THE INTERIOR SITATION PRODUCT AS DUCT ASSEMBLIES WITT THE FULL HEIGHT OF UN NO THE INTERIOR SITATION PRODUCT AS DUCT ASSEMBLIES WITT THE FULL HEIGHT OF UN ASSED ON 8" X 16" V CROSS VENTILLA CROSS VENTILLA CROSS VENTILLA CROSS VENTILLA CROSS VENTILLA CROSS VENTILLA THE FULL HEIGHT OF UN CROSS VENTILLA CROSS VENTILLA	ON. RITERIA. PH COLUMNS. (U.N.C. PIMENSION. E PRIOR TO CONST DTAGE ERRORS ON MASS MASS MALL R-VALUE N 5/13 or 5/10 cont N 5/13 or 5/10 cont N 13/17 or N 5/10 cont N 13/17 or N 13/12.5 cont HICH IS LESS THAN THE LABE ECIFIED IN THE TABLE. M M TABLE N1101.7. ICAVITY INSULATION PLUS R- THING COVERS 25% OR LESS HEATHING COVERS MORE THE SR-13 CAVITY AASS WALL. SEMBLIES HAVING A U-FACTO OUT PENALTY. COMPRESSED R-30 INSULATION OUT PENALTY. COMPRESSED R-30 INSULATION MALL R-VALUE AS THE MINIM ATION ENTS)1 FION	.) RUCTION. CE CONSTRUCTION FLOOR FLOOR R-VALUE 19 19 30 9 	N BEGINS. BASEMENT <sup>C, f</sup> WALL R-VALUE <u>5/13</u> f <u>10/15</u> <u>10/15</u> SHALL BE LL BE LL BE NUT TOP PLATE OR WITHIN 1 INCH AIR BAFFLE. ESSED	2 SLAB d R-VALUE AND DEPTH 0 10 10	CRAWL SPACE WALL R-VALUE 5/13 <u>10/15</u> <u>10/19</u>		D. E. CI PER NO	POST 4 x 6 x 2 x 6 DIAGON/ (2) PEF TO THI THE 2 : DIPPEI FOR EMBEDM ORBELLED BF BUILDING CI BRICK ( 4" BRICK (TYI
PR(           i)         PR(           i)         UPI           i)         PSI           i)         PR(           iii         III           iii         TYP           IMATE         III           DNES         3           4         5           2072 SQ         1.38 SQ.           iii         VENT           VO SCALE         OFT           III         SQUARE           iii         IIII           iii         IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	ROVIDE CONTINUOUS S PLIFT LOADS GREATER FER TO TABLE N1102.1 COVIDE A MINIMUM OF S AXIMUM MASONRY PEIF IS THE CONTRACTORS NDALL ENGINEERING S FENESTRATION U-FACTOR NDALL ENGINEERING S 0.35 0.4 0.7 THE FINEST (SHGC) 0. FILE FOR MONOL 0. OF THE SHALL 0. FILE FOR SHALL 1. THE FIRST 1. FOR MASS W 1. IN ADDITION 0. FILE FOR 1. IN ADDITION 1. RADE FINITION 1. RADE FINITION 0. FT. OF CRAWL SPACI 1. RADE FINITION 0. BASEMENT W 0. FT. OF CRAWL SPACI 1. RADE FINITION 1. RADE FINITION 1. RADE FINITION FOR 0. FT. OF CRAWL SPACI 1. TABLE VALU 1. RADE FINITION FOR 1. TABLE VALU 1. RADE FINITION FOR 1. RADE FINITION 1. RADE FINITION FOR 1. RADE FINITION FOR	HEATHING PER S THAN 500# SHAL I FOR PRESCRIPT O WITH MAXIMUM 500# UPLIFT & LA RESPONSIBILITY & DESIGN, PA IS N SKYLIGHT & LA RESPONSIBILITY & DESIGN, PA IS N U-FACTOR 0.55 0.55 0.55 0.55 0.55 0.55 0.55 0.5	SECTION 602.10.3 OF L BE CONTINUOUSL TIVE BUILDING ENVE HEIGHT OF 9-0" (U.I. TERAL CONNECTION NOT EXCEED FOUR 'TO VERIFY ALL DIN NOT EXCEED FOUR 'TO VERIFY ALL DIN NOT RESPONSIBLE F GLAZED FENESTRATION SHGC <sup>b,k</sup> 0.30 0.30 0.30 0.30 NR MATE ZONES 3-5 IS AND SHGC ARE MAXIMUMS LED R-VALUE OF THE INSULAT INN EXCLUDED SKYLIGHTS. T. GLAZED FENESTRATION. ULATED SHEATHING ON THE ITHE INTERIOR OF THE BASEM VALUE OF THE INSULAT INN EXCLUDED SKYLIGHTS. T. GLAZED FENESTRATION. ULATED SHEATHING ON THE ITHE INTERIOR OF THE BASEM VIALUE APPLIED FROM THE FTHE FOUNDATION WALL OR DGE R-VALUES FOR HEATED S REQUIRED IN WARM-HUMID LI THE FRAMING GAVITY. R-19 M 10N, THE SECOND VALUE IS CONTY INN THE SECOND IS SALLED IN A NOMINI INT THE SECOND IS SALLED IN A NOMINI INT THE SECOND IS CONTY IS SHALL SPECIFIC HEF INN THE SECOND IS SALLED IN THE SECOND IS INN THE SECOND IS SALLED IN THE SECOND IS INN T	THE 2018 NCRC Y ANCHORED TO ELOPE THERMAL N.O.) N AT TOP AND B TIMES ITS LEAS MENSIONS AND S FOR DIMENSION CEILING M R-VALUE 38 or 30 cont 38 or 30 cont 100 SHALL NOT BELES HE SOLAR HEAT GAIN C INTERIOR OR EXTERIOR EVEN IS LESS. FOR FLOA 224', WHICHEVER IS LESS LABS. OCATIONS AS DEFINED INTERIOR OR EXTERIOR EVEN IS LESS. FOR FLOA 244', WHICHEVER IS LESS LABS. OCATIONS AS DEFINED INTERIOR OR EXTERIOR EVEN IS LESS. FOR FLOA 244', WHICHEVER IS LESS LOCATIONS AS DEFINED INTERIOR OF EXTERIOR EVEN IS LESS. FOR FLOA 244', WHICHEVER IS LESS LABS. OCATIONS AS DEFINED INTERIOR OF AT LE SHEATHING OF AT LE AND HALF THE INSULATION INT FENESTRATION PROI UNITEMENT WHEREVER ACE IS LIMITED BY THE NAL 2 × 6 FRAMING CAVI AT CONTENT REQUIREM ACTION WITHOUT NTS REQ'D (BASI VENTS REQ'D (EASI VENTS REQ'D (E	COMPONENT C COMPONENT C COMPONENT C DTTOM OF PORC T HORIZONTAL I SQUARE FOOTAC OR SQUARE FOOTAC IS OF SQUARE FOOTAC IS OF IS OF 13 + 2.5 15 OF 13 + 2.5 15 OF 13 + 2.5 15 OF 13 + 2.5 0 FTHE HOME PACE WALL. NIVARD TO THE BOTTC THAN THE R-VALUE SI OF FHE HOME PACE WALL. NIVARD TO THE BOTTC ITING SLABS, INSULATION IS RAS SHALL BE BY FIGURE N1101.7 AND N, SO "13+5" MEANS R-1 JSED. IF STRUCTURAL SHA AST R-2. "13 + 2.5" MEAN N, SO "13+5" MEANS R-1 JSED. IF STRUCTURAL SHA STRATION PRODUCT AS DUCT ASSEMBLIES WITH THE FULL HEIGHT OF UN NCE EXISTS OR INSULAT DUCT ASSEMBLIES WITH THE FULL HEIGHT OF UN NCE EXISTS OR INSULAT DUCT ASSEMBLIES WITH THE FULL HEIGHT OF UN NCE EXISTS OR INSULAT DUCT ASSEMBLIES WITH THE FULL HEIGHT OF UN NCE EXISTS OR INSULAT ON IS ON THE INTERIOR STRATION PRODUCT AS DUCT ASSEMBLIES WITH THE FULL HEIGHT OF UN NCE EXISTS OR INSULAT DUCT ASSEMBLIES WITH THE FULL HEIGHT OF UN NCE EXISTS OR INSULAT ON IS ON THE INTERIOR STRATION PRODUCT AS DUCT ASSEMBLIES WITH THE FULL HEIGHT OF UN NCE EXISTS OR INSULAT ON IS ON THE INTERIOR STRATION PRODUCT AS DUCT ASSEMBLIES WITH THE FULL HEIGHT OF UN NCE EXISTS OR INSULATION CROSS VENTILA VASED ON 8" X 16" V	ON. RITERIA. PH COLUMNS. (U.N.C. PIMENSION. E PRIOR TO CONST DTAGE ERRORS ON MASS WALL R-VALUE n 5/13 or 5/10 cont n 5/13 or 5/10 cont n 5/13 or 5/10 cont n 13/17 or 13/12.5 cont MASS WALL R-VALUE N HE TABLE. MASS WALL R-VALUE N 13/17 or 13/12.5 cont N 13/17 or 13/12.5 cont R-13/12.5 cont R-13/12.5 cont MASS R-13 CAVITY INSULATION PLUS R- TABLE N1101.7. COMPRESSED R-30 INSULATION OUT PENALTY. COMPRESSED R-30 INSULATION OUT PENALTY. COMPRESSED R-30 INSULATION NUT PENALTY. COMPRESSED R-30 INSULATION DUT PENALTY. COMPRESSED R-30 INSULATION NUT PENALTY. COMPRESSED R-30 INSULATION R-100 IN INSULATION MUST PI R-100 IN INSULATION INSULATION MUST PI R-100 IN INSULATION INSULATION MUST PI R-100 IN INSULATION INSULATION INSULATION INSULATION INSULATION INSULATION INSULATION INSULA	.) RUCTION. CE CONSTRUCTION FLOOR FLOOR FLOOR FLOOR I I OR DESIGN THICKNESS SINSULATED FTHE EXTERIOR, IN 25 PERCENT R NO GREATER THAN 0.55 O GREATER THAN 0.70 SH/ IN EXTENDS OVER THE W THE INSULATION BAFFLE LLTHE SPACE UP TO THE OR 19 OR HIGHER COMPR UM REQUIREMENT.	N BEGINS.  BASEMENT <sup>0,4</sup> XALL R-VALUE <u>5/13</u> <sup>f</sup> 10/15 10/15 10/15 SHALL BE LL BE	2 SLAB d R-VALUE AND DEPTH 0 10 10	CRAWL SPACE WALL R-VALUE 5/13 10/15 10/19		D. E. CIPER NO	POST 4 x 6 x 2 x 6 DIAGON/ (2) PEF TO THI THE 2 : DIPPER FOR EMBEDM DRBELLED BF BUILDING CI BRICK ( 4" BRICK (TYN
) PR( ) UPI ) REI ) PSI ) PR( ) PR(	ROVIDE CONTINUOUS S PLIFT LOADS GREATER FER TO TABLE N1102.1 SL COLUMNS DESIGNED ROVIDE A MINIMUM OF SL ROVIDE A MINIMUM OF SL ST FE CONTRACTORS SL FE ON SL ROVIDE A MINIMUM OF SL ROVIDE A MINIMUM OF SL ROVIDE A MINIMUM OF SL SL FT. OF CRAWL SPACE SL FT. OF CRAWL SPACE SL FT. OF CRAWL SPACE C. FT. OF CRAWL SPACE SL FT. OF CRAWL	HEATHING PER S THAN 500# SHAL I FOR PRESCRIPT O WITH MAXIMUM 500# UPLIFT & LA Stylight & LA RESPONSIBILITY DESIGN, PA IS N SKYLIGHT & LA RESPONSIBILITY COLONS OF COLUCT OUTS OF COLUCT SKYLIGHT & LA SKYLIGHT D SKYLIGHT D COLOSS 0.55 0.55 0.55 0.55 0.55 0.55 0.55 0.	SECTION 602.10.3 OF L BE CONTINUOUSL TIVE BUILDING ENVE HEIGHT OF 9-0" (U.) TERAL CONNECTION NOT EXCEED FOUR 'TO VERIFY ALL DIN NOT EXCEED FOUR 'TO VERIFY ALL DIN NOT EXCEED FOUR 'TO VERIFY ALL DIN NOT RESPONSIBLE F GLAZED FENESTRATION SHGC <sup>b,k</sup> 0.30 0.30 NR MATE ZONES 3-5 SAND SHGC ARE MAXIMUMS LED R-VALUE OF THE INSULA MIN EXCLUDED SKYLIGHTS. T. GLAZED FENESTRATION. ULATED SHEATHING ON THE ITHE INTERIOR OF THE BASEM SHALL BE APPLIED FROM THO 72.4" BELOW GRADE WHICHE IF THE FOUNDATION WALL OR DOGE R-VALUES FOR HEATED S REQUIRED IN WARM-HUMID L THE FRAMING CAVITY. R-19 M 100, THE SECOND VALUE IS CO AUTON THIO 2.3.3, A MAXIMUM OR MINIMUM CODE COMPLIAN THE CELLING INSULATION RULE IS CAVITY INSULATION. PLUES RAVIE NG. LUE APPLIES WHEN MORE THE COTION INITOZ. 3.3, A MAXIMUM OR MINIMUM CODE COMPLIANTE NG. LUE APPLIES WHEN MORE THE COTION NITIOZ. 3.3, A MAXIMUM OR MINIMUM CODE COMPLIANTE NG. LUE APPLIES WHEN MORE THE STED AND INSULATION RULE IS CONTON TO AND ALLE IS TO CAVITY INSULATION. PLUES RAVIE REQUIRED IN WARM-HUMID L THE FRAMING CAVITY. R-19 M 100, THE SECOND VALUE IS CO CAVITY INSULATION VALUE IS CO CAVITY INSULATION. PLUES RAVIE REQUIRED IN WARM-HUMID L THE FRAMING CAVITY. R-19 M 100, THE SECOND VALUE IS CO CAVITY INSULATION. PLUES RAVIES REQUIRED IN WARM-HUMID L THE FRAMING CAVITY. R-19 M 100, THE SECOND VALUE IS CO CAVITY INSULATION. PLUES RAVIES REQUIRED IN WARM-HUMID L THE FRAMING CAVITY. R-19 M 100, THE SECOND VALUE IS CO REQUIRED WHEN THE SECOND SULATION IS REQUIRED WHEN STON THOUR CONCOLONNEL TO OF REQUIRED WHEN THE SECOND SULATION IS REQUIRED WHEN STON THOUS AND CONCOLONNEL TO OF REQUIRED WHEN SULATION IS REQUIRED TO COMPLIAN SULATION IS REQUIRED TO COMPLIANT SULATION IS REQUIRED THE SPEL SULATION	THE 2018 NCRC Y ANCHORED TO ELOPE THERMAL N.O.) N AT TOP AND B TIMES ITS LEAS MENSIONS AND S FOR DIMENSION CEILING M R-VALUE 38 or 30 cont 38 or 30 cont 100 SHALL NOT BE LESS WHEN INSULATION IS I TION SHALL NOT BE LESS WHEN INSULATION IS I TION SHALL NOT BE LESS WHEN INSULATION SA DEFINED AND ALL OR CRAWLSI 234" WHICHEVER IS LESS CONTINUOUS INSULATION CONTINUOUS INSULATION CONTINUOUS INSULATION CONTINUOUS INSULATION CONTINUOUS INSULATION CONTINUOUS INSULATION CONTINUOUS INSULATION CONTINUOUS INSULATION CONTINUOUS INSULATION CONTINUOUS INSULATION TENESTRATION PROD WIT FENESTRATION PROD WIT FENESTRATION PROD WIT FENESTRATION PROD WIT FENESTRATION PROD WIT FENESTRATION PROD WIT FENESTRATION PROD WIT FOR CONTENT REQUIREM ACE IS LIMITED BY THE NAL 2 × 6 FRAMING CAVI AT CONTENT REQUIREM ACE IS LIMITED BY THE NAL 2 × 6 FRAMING CAVI AT CONTENT REQUIREM ACE IS LIMITED BY THE NAL 2 × 6 FRAMING CAVI AT CONTENT REQUIREM ACE IS LIMITED BY THE NAL 2 × 6 FRAMING CAVI AT CONTENT REQUIREM ACE IS LIMITED BY THE NAL 2 × 6 FRAMING CAVI AT CONTENT REQUIREM ACE IS LIMITED BY THE NAL 2 × 6 FRAMING CAVI AT CONTENT REQUIREM ACE IS LIMITED BY THE NAL 2 × 6 FRAMING CAVI AT CONTENT REQUIREM ACE IS LIMITED BY THE NAL 2 × 6 FRAMING CAVI AT CONTENT REQUIREM ACE IS LIMITED BY THE ACE IS LIMITED B	2. D THE FOUNDAT COMPONENT C DOTTOM OF PORC DOTTOM OF PORC T HORIZONTAL I SQUARE FOOTAC OR SQUARE FOOTAC IS OF SQUARE FOOTAC IS OF IS OF IS OF IS OF IS	ON. RITERIA. PH COLUMNS. (U.N.C. PMENSION. PE PRIOR TO CONST DTAGE ERRORS ON MASS WALL R-VALUE n 5/13 or 5/10 cont n 5/10 cont n 5/10 cont n 5/10 cont n 13/17 or 13/12.5 cont MASS WALL R-VALUE N 13/17 or 13/12.5 cont R-13/12.5 cont N 13/17 or 13/12.5 cont N 13/17 or 13/12.5 cont R-13/12.5 cont N 13/17 or 13/12.5 cont N 13/17 or 13/12.5 cont N 13/17 or 13/12.5 cont N 13/17 or 13/12.5 cont N 13/17 or N 13/17 or N 13/17 or 13/12.5 cont N 13/17 or N 13/17 or N 13/17 or S/10 cont N 13/17 or 13/12.5 cont N 13/17 or N 13/17 o	.) RUCTION. CE CONSTRUCTION CE CONSTRUCTION i FLOOR R-VALUE 19 19 19 19 10 19 10 10 10 10 10 10 10 10 10 10 10 10 10	N BEGINS.  BASEMENT <sup>C, f</sup> WALL R-VALUE <u>5/13</u> <sup>f</sup> <u>10/15</u> <u>10/15</u>	2 SLAB d R-VALUE AND DEPTH 0 10 10	CRAWL SPACE WALL R-VALUE 5/13 10/15 10/19		D. E. COPER NO	POST 4 x 6 x 2 x 6 DIAGON/ (2) PEF TO THI THE 2 DIPPEI FOR EMBEDM DRBELLED BF BUILDING CI BRICK ( 4" BRICK (TYI

![](_page_12_Figure_2.jpeg)

![](_page_12_Figure_3.jpeg)

![](_page_13_Figure_0.jpeg)

![](_page_13_Figure_2.jpeg)

*Engineers seal does no means, methods, techn procedures or safety p *Any deviations or disc to be brought to the in Tyndall Engineering & interpret that all dime recommendations, etc. presented in these deemed acceptable on the second second second second product of the second second second the second	Engineers seal does not include construction means, methods, techniques, sequences, procedures or safety precaution. Any deviations or discrepancies on plans are to be brought to the immediate attention of Fyndall Engineering & Design, P.A. Failure to do so will void Tyndall Engineering & Design, P.A. liability. Please review these documents carefully. Fyndall Engineering & Design, P.A. will interpret that all dimensions, scommendations, stc. presented in these documents were deemed acceptable once construction begins.					
TYNDALL ENGINEERING & DESIGN, P.A.	7 919 775-1200 = # 919 778-1200 = # 919 778-9468 250 Shipwash Crive = Garner = North Carolina = 27529 www.tyndallengineering.com					
client: SOUTHEASTERN INTERIORS	Pian: BYRD RESIDENCE					
STANDARD	DETAILS					
Project #:         2101-010252B         Date:         2/23/2022         Engineered By:         AM         DWG. Checked By:         PAT         Scale:         SEE PLAN         REVISIONS         \u03e4         \u03e4         \u03e4         \u03e4         Sheet Number						
<b>D2</b> 6 of 7						

OVER	
JD COLUMN	

- DOUBLE TOP PLATE

WALL STUDS

![](_page_14_Figure_0.jpeg)

![](_page_14_Figure_1.jpeg)

DATE:

![](_page_14_Figure_3.jpeg)