

NOTES:

1. DRAWINGS ARE FOR A STANDALONE GARAGE TO BE CONSTRUCTED AT A RESIDENTIAL PROPERTY LOCATED AT:  
62 JUDI LEE ROAD  
LILLINGTON, NC 27546
2. ALL CONSTRUCTION TO BE IN ACCORDANCE WITH 2018 NCBC (2015 IBC WITH NC AMENDMENTS)
3. SCOPE: FRAME AND FOUNDATION DESIGN ARE INCLUDED -- WALLS, ROOFS, DOORS, AND OTHER COMPONENTS ARE BY OTHERS
4. LOADS
  - 4.1 DEAD, ROOF = 3 PSF
  - 4.2 LIVE, ROOF = 20 PSF
  - 4.3 WIND, V = 117 MPH, RISK CATEGORY = 2
  - 4.4 SNOW = 10 PSF
  - 4.5 SEISMIC DESIGN CATEGORY =C , SITE CLASS = D, Sds = 0.211, Sd1 = 0.145,
  - 4.6 LOCATION IS NOT IN A FLOOD HAZARD ZONE
5. FOUNDATIONS AND ANCHORS
  - 5.1 USE NORMAL WEIGHT CONCRETE, f<sub>c</sub> = MINIMUM 2,500 PSI @ 28 DAYS
  - 5.2 MIX CONCRETE IN ACCORDANCE WITH ASTM C-94
    - 5.2.1 CALCIUM CHLORIDE ADMIXTURES ARE PROHIBITED
    - 5.2.2 PORTLAND CEMENT SHALL CONFORM TO ASTM C-150, TYPE 1
    - 5.2.3 CONCRETE AGGREGATES SHALL CONFORM TO ASTM C-33
  - 5.3 SUBGRADE SOILS ARE TO BE UNIFORM, DENSE, WELL-DRAINED, AND FREE OF FOREIGN OBJECTS AND DELETERIOUS MATERIALS  
SUBGRADE PREPARATION IS AS REQUIRED BY THE JURISDICTION OR A GEOTECHNICAL ENGINEER, AS NEEDED
    - 5.3.1 ALLOWABLE SOIL BEARING PRESSURE = 2000 PSF (ASSUMED), MODULUS OF SUBGRADE REACTION = 90 PCI
  - 5.4 POST BASEPLATES TO BE CENTERED ON FOUNDATIONS
  - 5.5 ANCHORS TO BE CAST IN PLACE OR POST INSTALLED, MIN. 5" EMBED, INSTALL PER MANUFACTURER'S INSTRUCTIONS
    - 5.5.1 CAST IN PLACE = 1/2" DIA. HEX HEAD, F 1554 GR. 36
    - 5.5.2 POST-INSTALLED = 1/2" DIA. A36 THREADED ROD WITH HILTI HIT-HY 200 EPOXY (OR SIMILAR)
6. STEEL
  - 6.1 HSS = A500 GR C, F<sub>y</sub> = 50 KSI MIN
  - 6.2 PLATES, ANGLES, STRAPS / FLAT STOCK = A36, F<sub>y</sub> = 36 KSI
7. WELDING
  - 7.1 WELDING TO BE IN ACCORDANCE WITH AWS D1.1
  - 7.2 FILLER MATERIAL TO BE 70 KSI MIN
  - 7.3 ALL JOINTS TO BE FULLY WELDED
  - 7.4 MIN WELD SIZE = THICKNESS OF STEEL FOR ROOF STRAP AND FLAT STOCK, MIN WELD SIZE = 3/16"  
FOR ALL TUBES,  
PLATES, AND ANGLES

<b>THE WELDING MACHINE LLC</b>			
DRAWN By	1-1-2013	RESIDENTIAL GARAGE DWG NUMBER	SIZE B
CHECKED Name	1-1-2013		
ENGINEER Name	1-1-2013		
APPROVED Name	1-1-2013	0000-0000	
SCALE 1:1		REV B	SHEET 1 OF 5