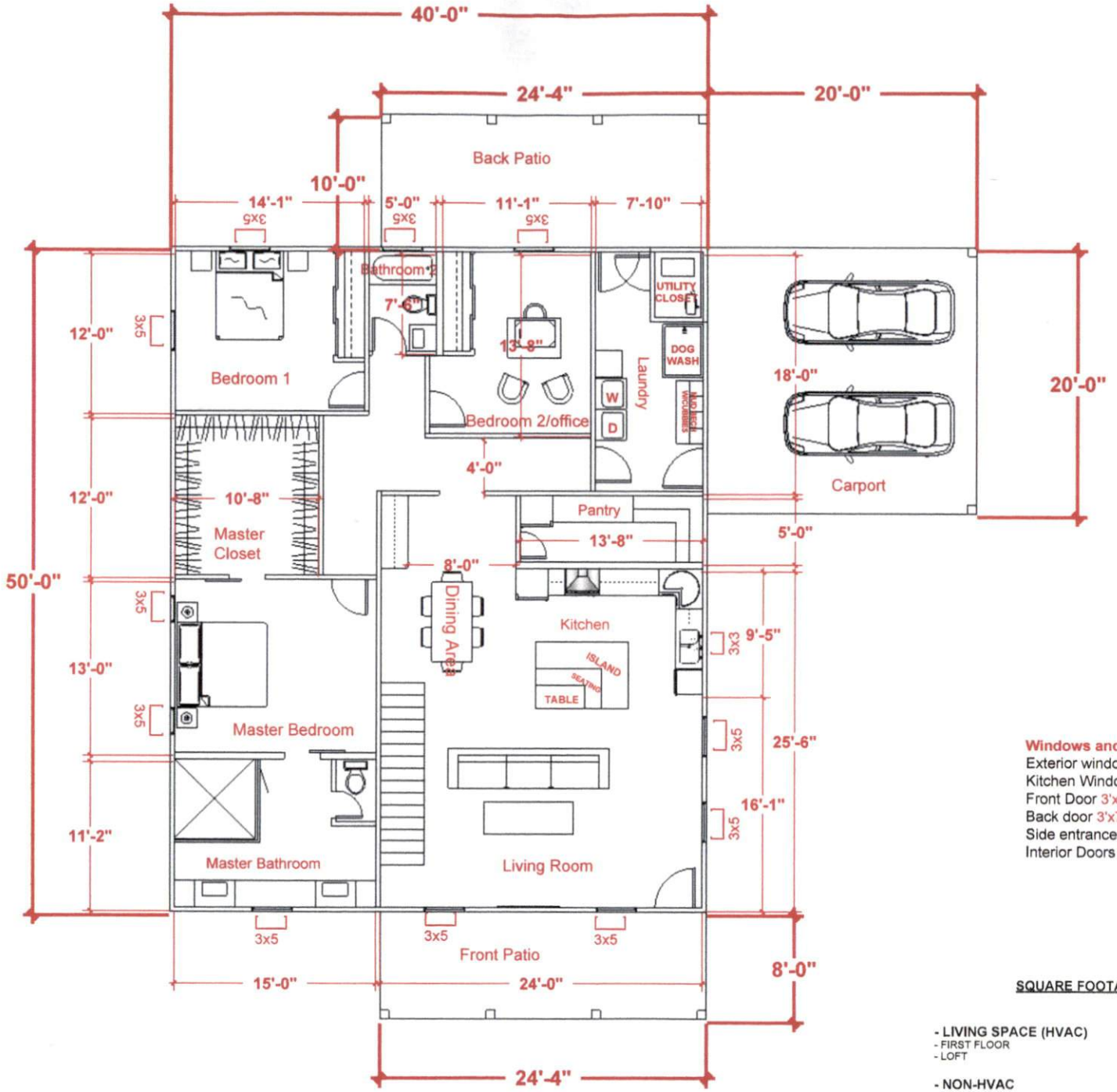


Windows and Doors
Exterior windows 3'x5'
Kitchen Window 3'x3
Front Door 3'x8'
Back door 3'x7'
Side entrance 3'x7'
Interior Doors 3'x6'7"

SQUARE FOOTAGE

- LIVING SPACE (HVAC)	**2386.44sf**
- FIRST FLOOR	2000sf
- LOFT	386.44sf
- NON-HVAC	**838.01sf**
- FRONT PORCH	243.34sf
- BACK PATIO	194.67sf
- CAR PORT	400sf

SCALE 1/8"=1'
KELLER

SCALE 1/8"=1'

KELLER

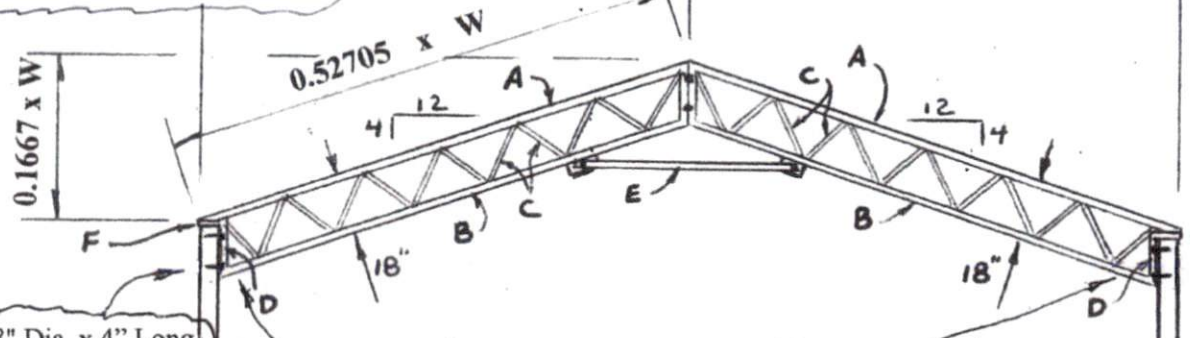
Roofing Material Shall be Metal Roofing

W = (span) Overall Width 12' To 34'

0.5 x W ℄ **0.5 x W**

Steel Truss Bottom Chords
Are Not Designed for Heavy Ceiling Finishes

16 Ga. Steel Formed Cups Shop Welded To Top Chord of Trusses. Each 2x6 Purlin Attached To Each Steel Cup with (4) Screw Connectors.



End Connections (Typical)
(4) – 3/8" dia. Lag Screws

(4) – 3/8" Dia. x 4" Long Galvanized Lag Screws Typical At Each Post (Revised 7-10-2015)

Max. Height = 10' Above Grade

Max. Height = 10' Above Grade

Double Vertical Angle Ends "D" At Posts (Typical)

6 x 6 PT Posts (Typical) MIN.

Design Loading:
DL = 12 psf LL = 20 psf Snow = 15 psf
Wind Speed = 115 mph Exposure C
Occupancy Category II
Design Soil Bearing Capacity = 2,000 psf
3,000 psi minimum concrete mix

A – Top Chord L 2" x 2" x 1/4"
B – Bottom Chord L 2" x 2" x 1/4"
C – Diagonal Web L1 1/4" x 1 1/4" x 1/8"
D – Vertical End L1 1/2" x 1 1/2" x 3/16"
E – Horizontal Tie 1 1/4" x 1 1/4" x 3/16"
F – Base L1 1/2" x 1 1/2" x 3/16"

6 x 6 PT Posts (Typical) MIN.

2'-4"

3'-0" MIN.

Conc. Fill (Typical)

8"

16" MIN.

Typical Conc. footings
16" dia. x 36" deep (min.)
8" conc. depth under post
2,500 psi conc. mix

NORTH CAROLINA PROFESSIONAL SEAL 14033 ENGINEER L. R. BURRIS, III

8/29/2017

Typical Steel Truss Detail (Residential Use)

Scale 1/4" : 1' – 0"

MAX. 10' Spacing o.c.

General Notes:

1.) Truss Depth 18"
2.) Truss Spacing = 10' o.c. (Maximum)
3.) Top Chord Purlin Spacing @ 2'-0" max. o.c. (2x6 purlins min.)
4.) Bottom Chord Bracing / Bottom Chord Purlin Spacing @ 6'-0" max. o.c.
5.) All Welds shall be 3/16" minimum fillet weld typical.
6.) All Steel shall be A-36 minimum strength.
7.) Connection Bolts, steel to steel, shall be A-307 min.

Typical Truss Detail	**12' To 34' Span**
Truss Spacing	**Up To 10' On Center**
ICC Code	**Occupancy Category II**
	Residential Use

Fabrication By: R and R Ironworks
Morganton, NC
8-29-2017 **Sheet S1 of 1**

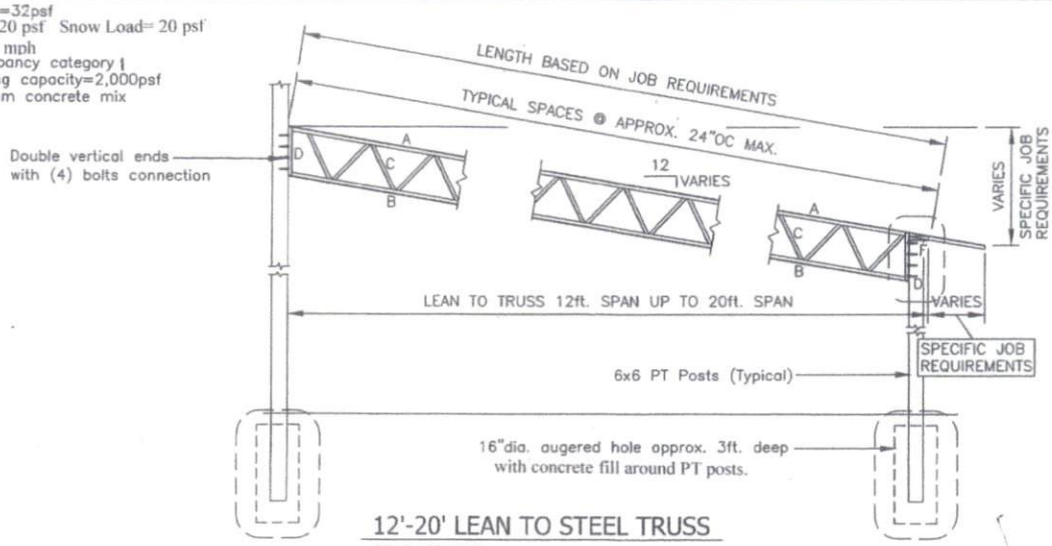
Drawn By: R. Burris, P.E. NC PE #14033
Ph. 828-448-0829 lrburris3@gmail.com

REVISED 8-29-2017
Certified for Residential Use

REVISED 4-18-2016
Conc. Anchorage Dimensions

Approved For Residential Use at Up to 10 ft. o.c. Max. Truss Spacing

Design Loading:TL=32psf
DL= 12 psf LL= 20 psf Snow Load= 20 psf
Wind Speed = 115 mph
Exposure C Occupancy category I
Design soil bearing capacity=2,000psf
3,000 psi minimum concrete mix



12'-20' LEAN TO STEEL TRUSS

SCALE: 1/4" = 1'-0"

16ga. steel formed cups shop welded to top chord of trusses. Each 2x6 purlin attached to each steel cup with (4) screw connectors

General Notes:

- Truss depth=1'-6"
- Truss spacing=10'-0"oc(Max.)
- Top chord purlin spacing @ 2'-0"oc (2x6 purlins min.)
- Bottom chord bracing/bottom chord purlin spacing @ 6'-0"oc (Max.)
- All welds shall be 3/16" minimum fillet weld typical.
- All steel shall be A-36 minimum strength.
- Connection bolts, steel to steel, shall be A307 min.
- 3000 psi minimum concrete mix for typical concrete footing.

Material List

A-Top chord L1½"x1½"x3/16"
B-Bottom chord L1½"x1½"x3/16"
C-Diagonal web L1¼"x1¼"x⅛"
D-Vertical end L1½"x1½"x3/16"
E-Horizontal tie (not required)
F-Base L1½'x1½"x3/16"

NORTH CAROLINA PROFESSIONAL SEAL 14033 ENGINEER L R BURRIS, III 3/27/2019

R+R IRON WORKS
501 SALEM ROAD,
MORGANTON, NORTH CAROLINA 28655
(828) 448-0524

Lean To Steel Truss
12' – 20'
North Carolina

DRAWN BY	PROJECT STATE: N. CAROLINA
3/27/19	

Engineer: L.R. Burris, III NC PE #14033
Lrburris3@gmail.com Ph. 828-448-0829