GRADE ELEVATIONS SHOWN DO NOT NECESSARILY REFER TO THIS OR ANY OTHER LOT. THEY ARE FOR DIAGRAMMATIC PURPOSES ONLY AND MAY VARY, BUILDER IS RESPONSIBLE FOR ADAPTING THIS PLAN TO SUIT THE EXISTING TOPOGRAPHY OF THE SITE.

ROOF VENTILATION TO BE DETERMINED BY BUILDER AS PER CODE.

ALL EGRESS OR RESCUE WINDOWS FROM SLEEPING ROOMS MUST HAVE A MIN. NET CLEAR OPENING OF 4,0 5Q FT. THE MIN NET CLEAR OPENING HEIGHT DIMENSION SHALL BE 22". THE MIN NET CLEAR OPENING WIDTH SHALL BE 20".

EACH EGRESS WINDOW FROM SLEEPING ROOMS MUST HAVE A SILL HIGHT OF NO MORE THAN 44" FROM THE FLOOR, ALL WINDOW SIZES ARE NOMINAL AND ARE TO BE VERIFIED WITH MANUFACTURER FOR AVAILABILITY AND CONFORMITY TO STATE AND LOCAL CODE REQUIREMENTS.

PORCHES, BALCONIES, OR RAISED FLOOR SURFACES LOCATED MORE THAN 30" ABOVE THE FLOOR OR GRADE BELOW SHALL HAVE GUARDRAILS NOT LESS THAN 32" IN HEIGHT,

I ASSUME NO RESPONSIBILITY FOR ANY DISTANCES AFTER START OF CONSTRUCTION. CONTRACTOR/BUILDER SHALL CONSULT WITH HOME OWNER ON ALL INTERIOR AND EXTERIOR MOLDINGS, TRIMS, COLORS, FINISHES, CABINET LAYOUTS, AND

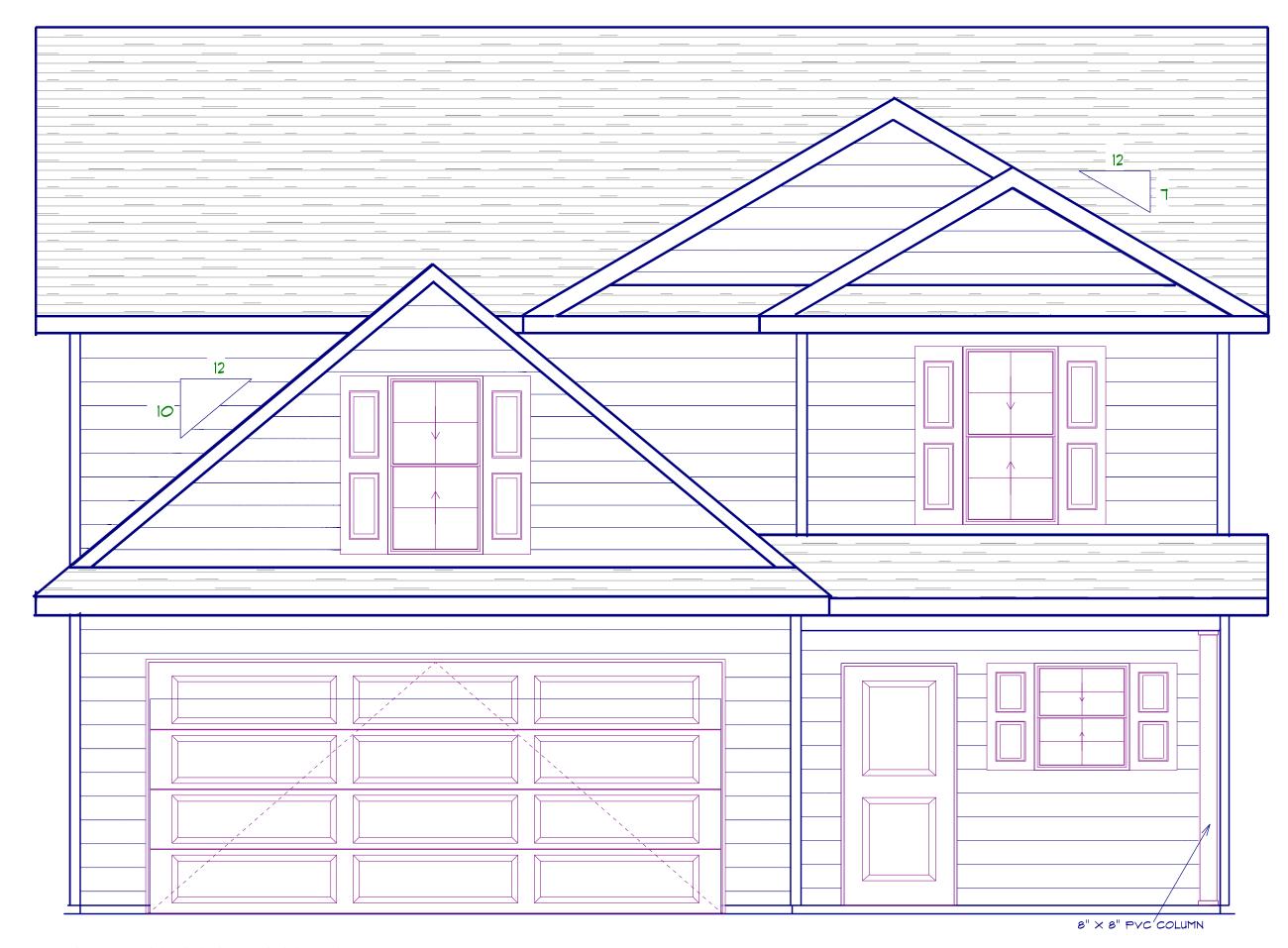
MANUFACTORS BEFORE CONSTRUCTION BEGINS. ALL BEAMS AND FRAMING MEMBERS ARE SIZED BY OTHERS.

1.1 This plan has been drawn to comply with the 2018 NC Building Code

1.2 Minimum Design Loads for Building and Other Structures ASCE 7-9B

- 2 Roof Dead Load 115 PSF 3 Roof Live Load 20 PSF
- 4 Typical Floor Dead Load 10 PSF
- 5 Floor Live Loads
- 5.1 Rooms other than sleeping rooms 40 PSF
- 5.2 Sleeping Rooms 30 PSF 5.3 Stairs 40 PSF
- 5.4 Decks 40 PSF
- 5.5 Exterior Balconies 60 PSF
- Wind Loads
- 6.1 Ultimate Design Wind Speeds 15 MPH 6.2 Wind Importance Factor, IW 1.00
- 6.3 Exposure B
- 6.4 Walls (Component and Cladding) 25 PSF 6.5 Roofs (Component and Cladding)
- 6.5.1 Roof Slopes 2.25/12 to 7/12 34.8 PSF
- 6.5.2 Roof Slopes 7/12 to 12/12 21 PSF

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



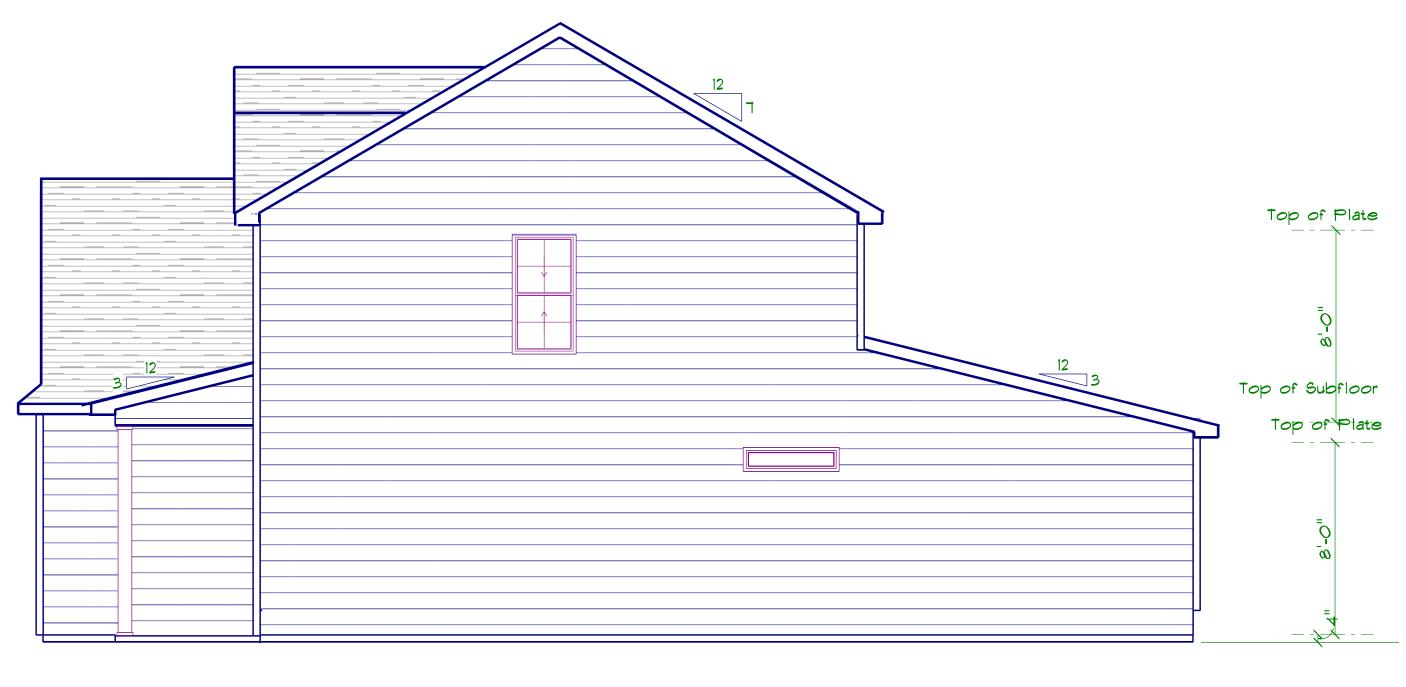
FRONT ELEVATION

IST, FLOOR HEATED SQ. FT. 1169 2ND FLOOR HEATED SQ. FT. 810 GARAGE SQ. FT. 443 COVERED PORCH SQ. FT. TO

Floor	Height Of Ext. Wall	Area Of Ext. Wall	Ext. Wall
lst	8'-0	1363	1363
2nd	8'-0	849	849
other			
2212	Total Sq. Ft.	of Exterior Wa	lls

Total Fenestration	Total Exterior Walls	Percentage of wall openings
188	2212	14%

Above Grade Walls Surrounding Heated Space



# RIGHT ELEVATION

SCALE: 1'= 1/4"

ELEVATION NOTES:

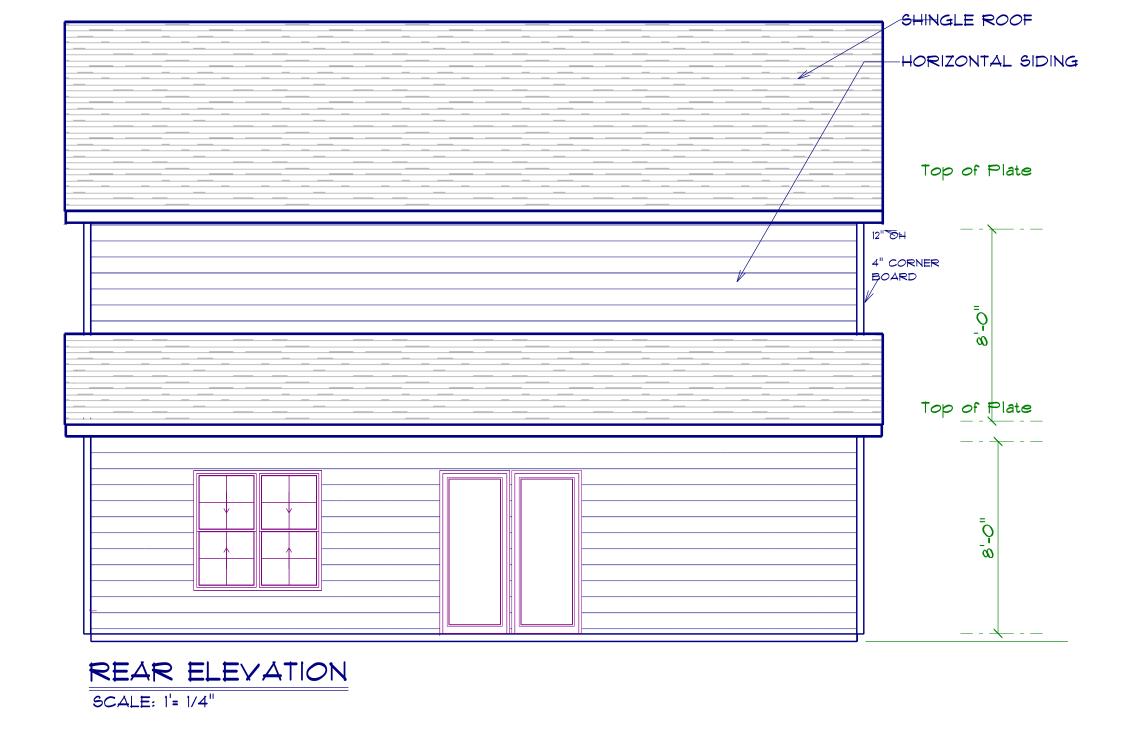
GRADE ELEVATIONS SHOWN DO NOT NECESSARILY REFER TO THIS OR ANY OTHER LOT. THEY ARE FOR DIAGRAMMATIC PURPOSES ONLY AND MAY VARY, BUILDER IS RESPONSIBLE FOR ADAPTING THIS PLAN TO SUIT THE EXISTING TOPOGRAPHY OF THE SITE.

ROOF VENTILATION TO BE DETERMINED BY BUILDER AS PER CODE.

ALL EGRESS OR RESCUE WINDOWS FROM SLEEPING ROOMS MUST HAVE A MIN. NET CLEAR OPENING OF 4.0 SQ FT. THE MIN NET CLEAR OPENING HEIGHT DIMENSION SHALL BE 22". THE MIN NET CLEAR OPENING WIDTH SHALL BE 20".

EACH EGRESS WINDOW FROM SLEEPING ROOMS MUST HAVE A SILL HIGHT OF NO MORE THAN 44" FROM THE FLOOR, ALL WINDOW SIZES ARE NOMINAL AND ARE TO BE VERIFIED WITH MANUFACTURER FOR AVAILABILITY AND CONFORMITY TO STATE AND LOCAL CODE REQUIREMENTS.

PORCHES, BALCONIES, OR RAISED FLOOR SURFACES LOCATED MORE THAN 30" ABOVE THE FLOOR OR GRADE BELOW SHALL HAVE GUARDRAILS NOT LESS THAN 32" IN HEIGHT.



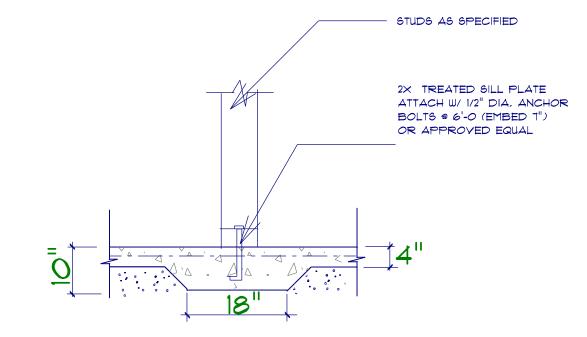


FOOTING

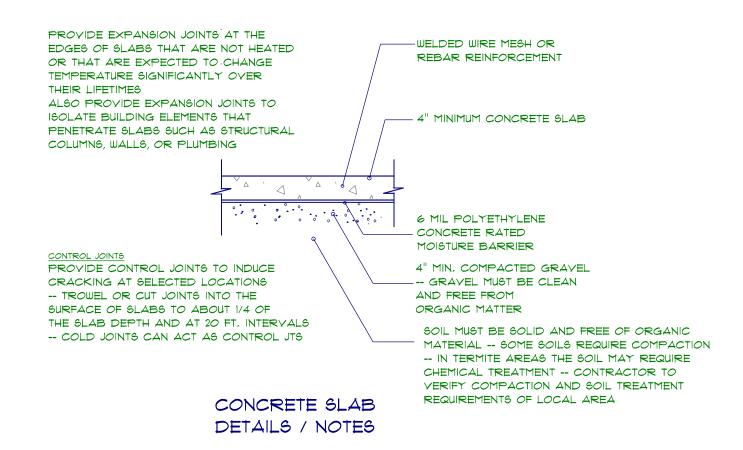
EXTERIOR SIDING 12" HGHT - 4" CONCRETE SLAB 8" HEADER BLOCK 1 COURSE -4" STONE FILL 8" CONCRETE BLOCK 1 COURSE 16" × 8" CONTINUOUS

 $2 \times 4$  STUD WALL

## STEM WALL FOUNDATION Detail not to scale



## TYPICAL THICKENED SLAB



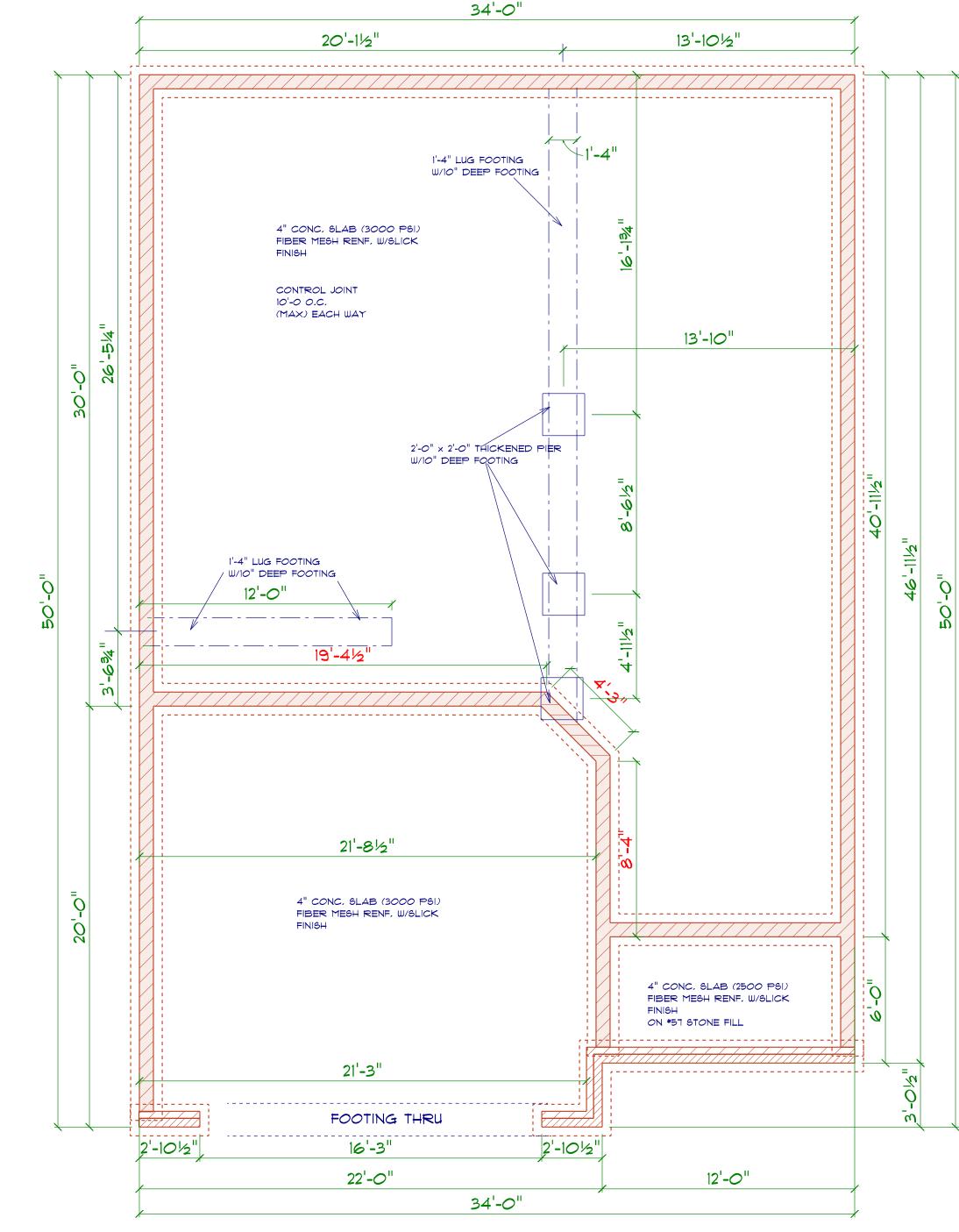
ALL FOOTINGS SHALL BEAR ON ORIGINAL UNDISTURBED SOIL. THE 28 DAY COMPRESSIVE STRENGTH OF ALL FOOTINGS IS 3000 PSI PROVIDE WATER PROOFING AND PERIMETER DRAINS AS REQUIRED. FOUNDATION CONCRETE MIX TO HAVE 1-1/2" MAX AGGREGATE SIZE, CONCRETE FILL MIX TO HAVE 1/2" MAX AGGREGATE SIZE. FOOTING WIDTHS ARE BASED ON A LOAD-BEARING SOIL CAPACITY OF 2000 PSI. PROVIDE 6 MIL POLY VAPOR BARRIER TO COVER GROUND SURFACE IN CRAWL SPACE

ALL ANCHOR BOLTS TO BE 12'' LONG, 1/2'' DIA. A36 UNO ANCHOR BOLTS SHALL BE SPACE AT A MAX OF 6' OC AND NO MORE THAN 1' FROM EA CORNER.

FOUNDATION NOTES:

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

## FOUNDATION NUTS, BOLTS, WASHERS 6'-0, OC 1'-0 FROM EACH CORNER



FOUNDATION PLAN

SCALE: 1'= 1/4"



13'-91/2" 7'-91/2" 5'-0" 13'-4" 6'-11/2" 6'-0" 7'-21/2" BEDROOM #2 22" × 36" ATTIC ACCESS BEDROOM #3 11'-81/2" LOFT TEMPERED 21'-5" 2'-8" x 5'-0" 2'-8" x 5'-0" 5'-101/2" 10'-0" 10'-0" 8'-3" 14'-11/2" 20'-0"

34'-0"

2ND FLOOR PLAN SCALE: 1'= 1/4"

AREA SCHE	AREA SCHEDULE		
NAME	AREA		
Heated Floor Area	805.5 sq ft.		

		OPENING SCHEDUL	.E	
SIZE	COUNT	LIBRARY NAME	R.O. WIDTH	R.O. HEIGHT
2'-8" x 5'-0"	5	Window\Double Hung	2'-8"	5'-0"

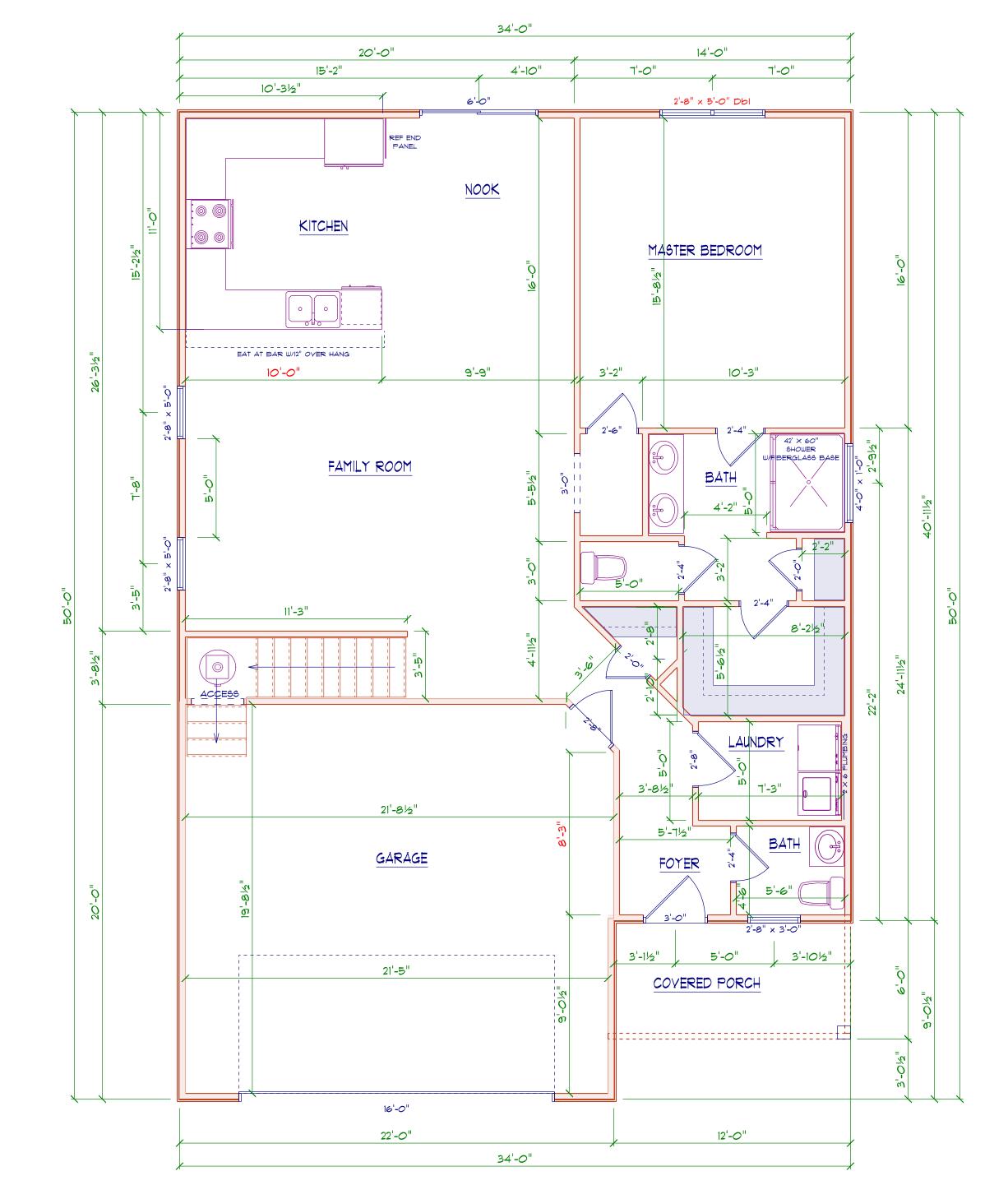
GENERAL FRAMING NOTES: ALL LUMBER IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE TREATED FRAMING LUMBER SHALL BE SYP \*2 GRADE AND/OR SPRUCE PINE FIR \*1 AND/OR \*2, KILN DRIED. WHERE PRE-ENGINEERED JOISTS ARE USED, JOIST MANUFACTURER SHALL PROVIDE SHOP DRAWINGS, WHICH BEAR SEAL OF A N.C. ENGINEER. STUDS AND JOISTS SHALL NOT BE CUT TO INSTALL PLUMBING OR WIRING WITHOUT ADDING METAL OR WOOD SIDE PANELS TO STRENGTHEN THE MEMBER TO ITS ORIGINAL CAPACITY. NAIL MULTIPLE MEMBERS WITH 2 ROWS OF 16d NAILS STAGGERED 32" OC AN USE 3-16d NAILS 2" IN AT EACH END. DOUBLE ALL STUDS UNDER ROOF POST DOWNS UNO. NAIL FLOOR JOISTS TO SILL PLATE WITH 8d TOE NAILS. ALL EXPOSED FRAMING ON PORCHES AND DECKS SHALL BE PRESSURE TREATED. PROVIDE WATERPROOFING AND DRAINS AS REQUIRED. ALL FRAMING TO BE 16" OC UNO. WALL FRAMING DIMENSIONS ARE BASED ON 2  $\times$  4 STUDS UNO. DOUBLE STUDS UNDER ALL HEADERS.

	OPENING SCHEDULE			
SIZE	COUNT	LIBRARY NAME	R.O. WIDTH	R.O. HEIGHT
6'-0"	1	Exterior Door\Patio	72"	80-1/2"
2'-8" x 3'-0"	1	Window\Double Hung	32"	36"
2'-8" x 5'-0"	2	Window\Double Hung	32"	60-1/2"
2'-8" x 5'-0" Dbl	1	Window\Double Hung	64-1/2"	60-1/2"

4'-0" x 1'-0" 1 Window\Transom 48"

LVL'S AND TJI'S TO BE SIZED BY OTHERS

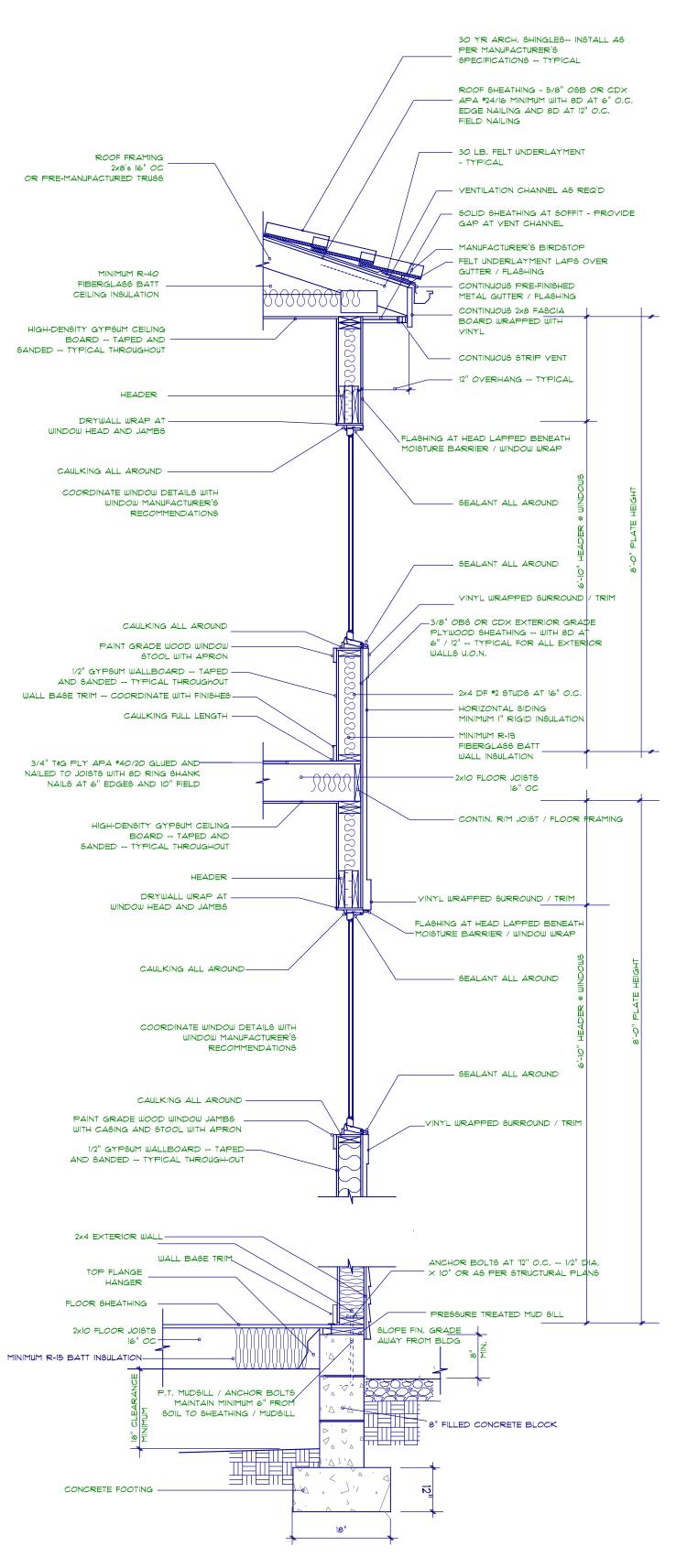
EXTERIOR WALLS IN LIVING AREAS ARE 2 X 4



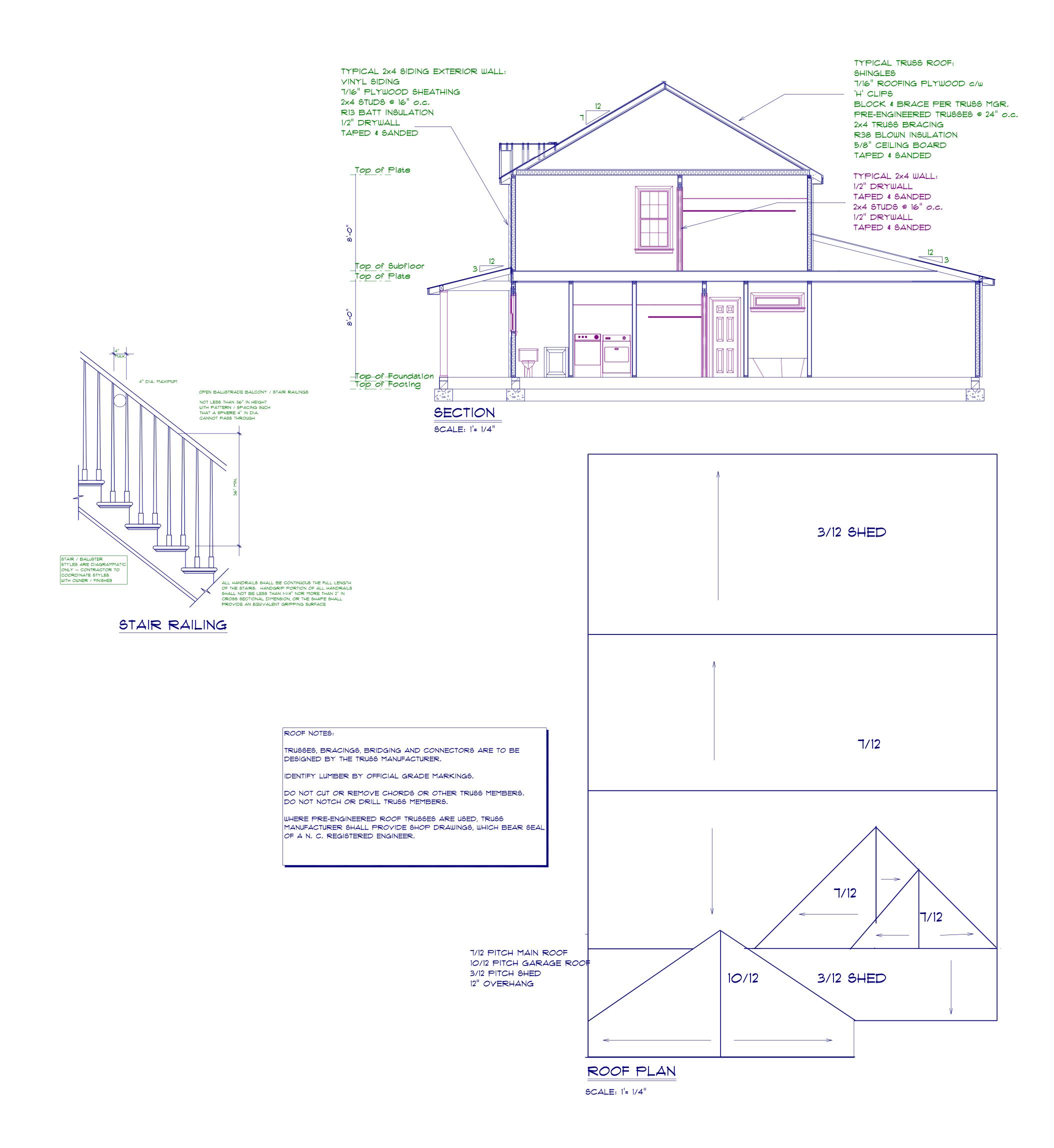
# IST FLOOR PLAN

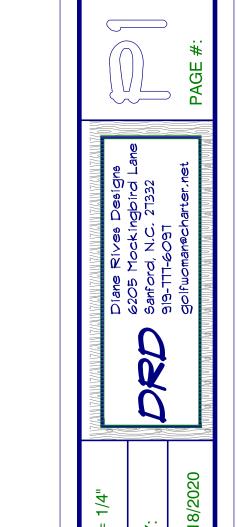
SCALE: 1'= 1/4"

AREA SCHEDULE		
NAME	AREA	
Heated Floor Area	1147.9 sq ft.	
Garage	443.2 sq ft.	
Covered Porch	69.8 sq ft.	



TWO STORY DETAIL WITH CRAWL SPACE





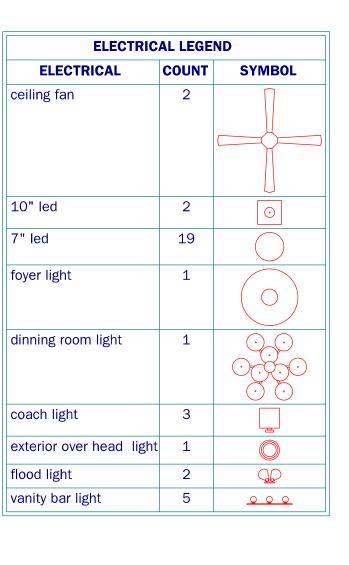
ibing LAYOUT

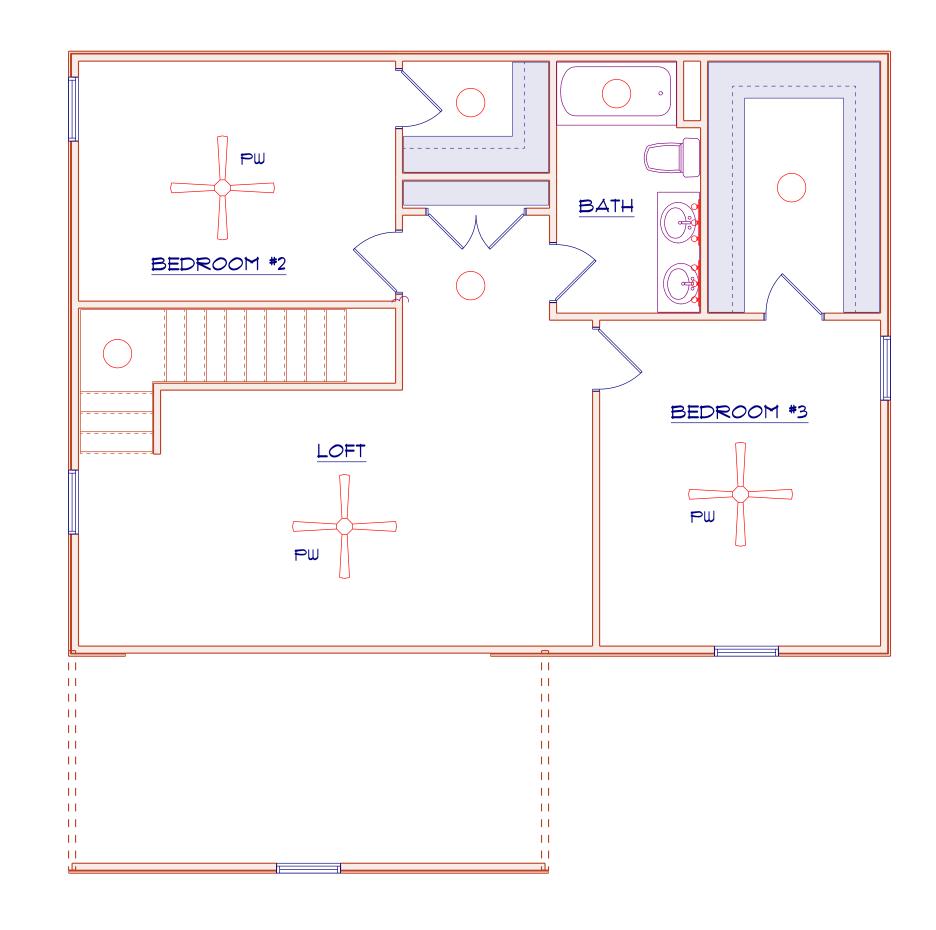


MASTER BEDROOM

COVERED PORCH







2ND FLOOR PLAN

IST FLOOR PLAN

ACCESS

FAMILY ROOM

GARAGE

### FLOOR TRUSS NOTES: No Scale DO NOT CUT, DRILL, NOTCH, OR OTHERWISE 34-00-00 DAMAGE TRUSSES. Contact your BFS Representative for assistance PRIOR TO modifying any truss. **Espanol** - (NO CORTE, PERFORE, HAGA MUESCAS O DANE DE CUALQUIER OTRA MANERA LAS TRUSSES (CERCHAS DE MADERA). Contacte a su representante de BFS para asistencia ANTES de realizar cualquier modification.) 1. This Truss Placement Diagram is intended to serve as a guide for truss installation. This Diagram has been prepared by a Truss Technician and is not an KIMBERLY The responsibilities of the Owner Building Designer, Contractor, Truss Designer, and Truss Manufacturer shall be as defined by the TPI 1 Nationa . The wood components shown on this diagram are to be used in dry service (moisture content<19%) and non-toxic environmental applications. The metal plate and hangers are galvanized to the G60 Standard 16-00-00 Plan Name: itions and trifications f Inless noted otherwise. Refer to the Truss Design Drawings for specific nformation about each individual truss design. The Truss Technician shall provide Truss-to-Truss Connection Requirements. Any special or other with building veather conditions and BCSI Specifications and Specifications are specifications. connection shall be the responsibility of the Building Designer. 6. The Truss Placement Diagram and Truss Design Drawings are the property of Builders FirstSource and may not be reused or reproduced in part or in total under any circumstances without prior written 14-00-00 20-00-00 ulity may increase wi ecognize adverse we SBCA and TPL. Follow CUSTOMEr N Subdivision: Name D01G-4PLY-NOTE: 'D01G-4Ply' sets 3-1/2" under wall Floor Trusses have been spaced as specified in the above, and sets 2-1/2" into lower roof. plans or as directed by the contractor / customer. BFS F01E recommends that the contractor / customer consider conomics, floor performance, floor coverings, and DO NOT INSTALL UPSIDE DOWN! accessibility when selecting the floor truss spacing 1-07-03 Inflexible floor coverings, such as ceramic tile, 1-08-00 File require careful consideration and planning by the 24" OC UNO +contractor. The contractor shall select and use an **NOTES:** approved floor covering assembly for the chosen floor covering and floor truss spacing used in the project. 40-11-08 Ceramic tile assemblies are shown in the TCNA CG 19.2" UNO Handbook for Ceramic, Glass, and Stone Installation (5)F04@19.2" O.C. 1. Trusses are 14" deep; spacing as Builders FirstSource is not responsible for floor Ž overing related issues. shown. The builder / owner is to inform Builders FirstSource of any additional loads placed on floor Soul usses, such as loads from structural members, heavy Albemarle granite island countertops, fireplace surrounds, etc. If 2. Dimensions are to outside of 50-00-00 we do not note these additional loads on the 6-07-08 F05B placement diagram or truss design drawings, then the sheathing. Trusses are shorteneed have not been added. U410 0. This Placement Diagram may show approximate THA422 1/2" at Ext. Walls. plumbing drop locations with a corresponding truss avout. With or without this information, the contractor U410 F11 shall insure that the installer verifies all plumbing (2)2x10 BBO (3)F07@24" O.C. F01G Ś ocations and installs the trusses to avoid interference 3. Install strongbacks at 10'-0" o.c. -10-02-08 Consider all plumbing such as toilets, tub drain and 6-01-00 F11 verflow, showers, etc. The contractor shall also plan Bm4-2-PLY F03E for other potential utility conflicts. 11. Floor Truss Spacing may be altered to avoid plumbing interference. Avoid overloading single trusses due to truss spacing shifts. Do not exceed the F03 4. See Truss design drawings for 3-05-08 F01 allowable span rating of the subfloor sheathing used. 12. Floor Trusses shall be fully sheathed on the top THA422 additional notes. chord. The builder shall select structural sheathing F02G that meets the truss spacing requirement as well as the desired long term performance characteristics for the specific assembly. 13. Strongbacks are either recommended or required as shown on the Truss Design Drawings. BFS (5)F10@24" O.C. 8-03-08 ecommends installing strongbacks for all floor trusses (5)F02@19.2" O.C. to improve floor performance and allow load sharing 14. This Placement Diagram is based upon the supporting structure being structurally adequate, dimensionally correct, square, plumb, and level to adequately support the trusses. The foundation B02G - 4PLY design, structural member sizing, load transfer, bearin F09E Revisions: conditions, and the structure's compliance with the applicable building code are the responsibility of the Owner, Building Designer, and Contractor. **WARNING:** TRUSSES MUST BE BRACED DURING INSTALLATION. FAILURE TO DO SO MAY RESULT IN INJURY OR DEATH. Espanol - (TRUSSES (CERCHAS) DEBERAN TENER UN SOPORTE DURANTE LA INSTALACION. NO HACERLO PODRIA RESULTAR EN LESIONES O MUERTE Job Number Trusses shall be installed in a safe manner meetin all code, local, OSHA, TPI, and BCSI Specifications. Failure to follow these specifications may result in injury or death. 2. Floor Trusses shall be temporarily restrained during Drawn By: Truss Connector Total List installation. DO NOT WALK ON UNRESTRAINED FLOOR TRUSSES. Unrestrained floor trusses may Product **CSL** THA422 suddenly collapse or roll over and may cause injury or U 410 DATE: 3. BCSI INSTRUCTIONS SHALL BE FOLLOWED: 4/29/2019 Products 12-00-00 22-00-00 Page Number Plies Net Qty TOTAL FLOOR AREA Product Length 1 of 1 34-00-00 Bm4-2-PLY 6-00-00 1-3/4" x 9-1/4" VERSA-LAM® 2.0 3100 SP 848.58 SQ FT

### **ROOF TRUSS NOTES:** DO NOT CUT, DRILL, NOTCH, OR OTHERWISE DAMAGE TRUSSES. Contact your BFS Representative for assistance PRIOR TO modifying any truss. Espanol - (NO CORTE, PERFORE, HAGA MUESCAS O DANE DE CUALQUIER OTRA MANERA LAS TRUSSES (CERCHAS DE MADERA). Contacte a su representante de BFS para sistencia ANTES de realizar cualquier nodification.) This Truss Placement Diagram is intended to serve as a guide for truss installation. This Diagram has been prepared by a Truss Technician and is not an engineered drawing. The responsibilities of the Owner, Building Designer, Contractor, Truss Designer, and Truss Manufacturer shall be as defined by the TPI 1 National Standard. 3. The wood components shown on this diagram are to be used in dry service (moisture content<19%) and non-toxic environmental applications. The metal plates and hangers are galvanized to the G60 Standard unless noted otherwise. 4. Refer to the Truss Design Drawings for specific information about each individual truss design. 5. The Truss Technician shall provide Truss-to-Truss Connection Requirements. Any special or other connection shall be the responsibility of the Building 6. The Truss Placement Diagram and Truss Design Drawings are the property of Builders FirstSource and may not be reused or reproduced in part or in total under any circumstances without prior written 7. In some cases, field framing may be required to achieve the final appearance shown on the Construction Documents. . Field framing, including valley rafters, installed over roof trusses shall have a knee brace from the rafter to the truss top chord at intervals of 48" on center (O.C.) or less. Stagger knee braces from adjacent rafters such that the load is distributed uniformly over multiple truss locations and not concentrated at one location or along one truss. Truss Top Chords shall be fully sheathed or have lateral bracing (purlins) spaced at 24" O.C. or less. Truss Bottom Chord Bracing shall not exceed the maximum shown on the Truss Design Drawing. Field framed bottom chord floor or ceiling attachments shall be spaced at 24" O.C. or less. Proper Bracing prevents buckling of individual truss members due to design loads. 10. This Placement Diagram is based upon the supporting structure being structurally adequate, dimensionally correct, square, plumb, and level to adequately support the trusses. The foundation design, structural member sizing, load transfer, bearing conditions, and the structure's compliance with the Owner, Building Designer, and Contractor. refer to the Mitek Piggyback Connection Detail applicable for the project details and wind load category. 12. The Contractor shall follow the SBCA TTB

applicable building code are the responsibility of the 11. If Piggyback Trusses are included in this project Partition Separation Prevention and Solutions for truss attachment to non-load bearing walls and carefully complete these details to avoid gypsum wall board

### **WARNING:**

TRUSSES MUST BE BRACED DURING INSTALLATION. FAILURE TO DO SO MAY RESULT IN INJURY OR DEATH.

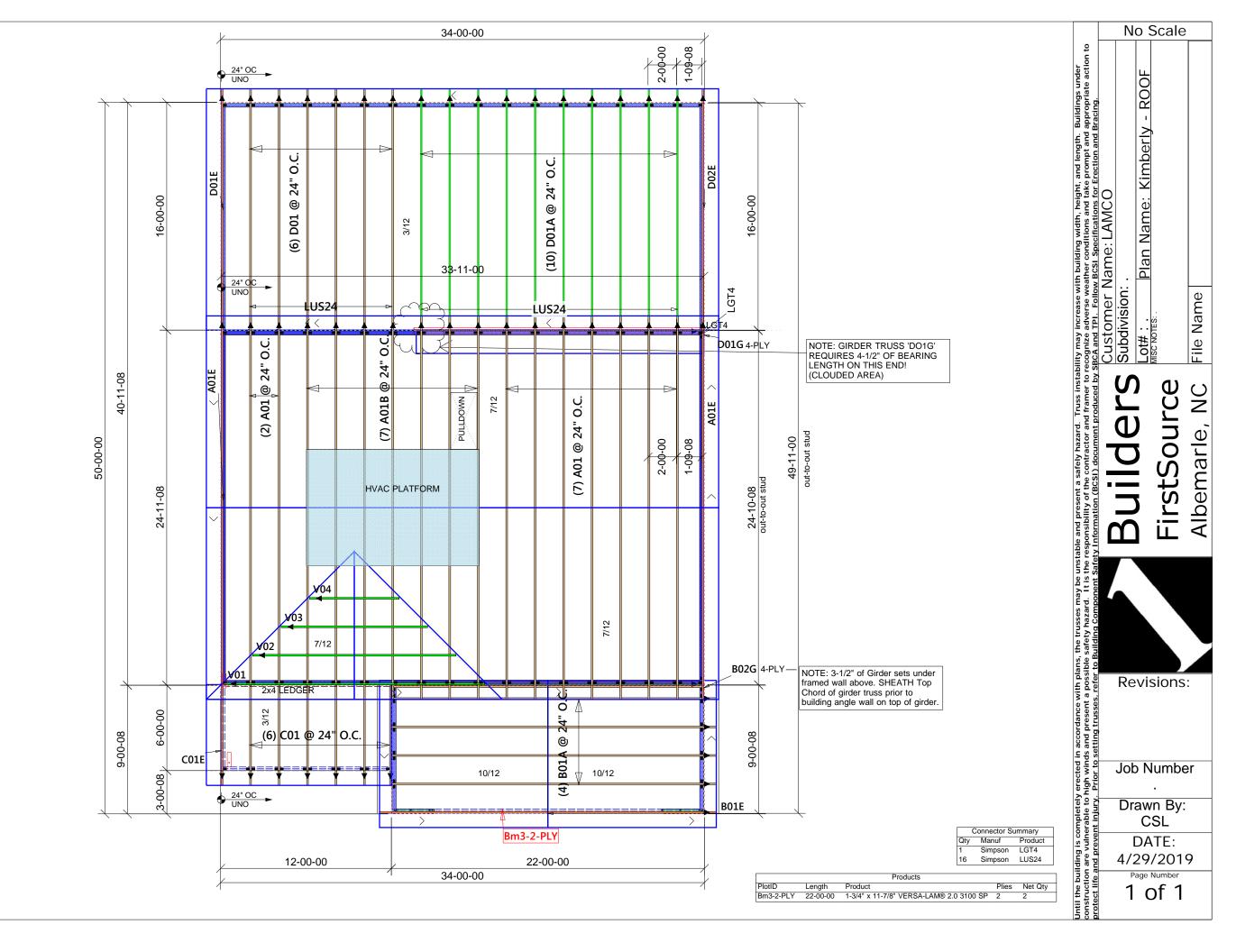
ESPANOI - (TRUSSES (CERCHAS) DEBERAN
ITENER UN SOPORTE DURANTE LA INSTALACION NO HACERLO PODRIA RESULTAR EN LESIONES O MUERTE.)

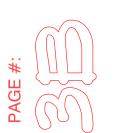
- Trusses shall be installed in a safe manner meetin all code, local, OSHA, TPI, and BCSI Specifications. Failure to follow these specifications may result in injury or death.
- . Buildings under construction are vulnerable to high winds and present a possible safety hazard. The Contractor is responsible for recognizing adverse veather conditions and shall take appropriate action to prevent injury or death.

### BCSI INSTRUCTIONS SHALL BE FOLLOWED:

- BCSI-B1 = Safe Truss Handling and Installation BCSI-B2 = Installation and Temporary Restraint
- BCSI-B3 = Permanent Restraint
- BCSI-B4 = Safe Construction Loading
- BCSI-B5 = Truss Damage and Modification Guidelines BCSI-B7 = Floor Truss Installation
- BCSI-B8 = Toe-Nailed Connections BCSI-B9 = Multi-Ply Girders
- BCSI-B10 = Post Frame Truss Installation BCSI-B11 = Fall Protection
- Follow TPI Requirements for Long Span Trusses

TOTAL ROOF AREA 2324.37 SQ FT

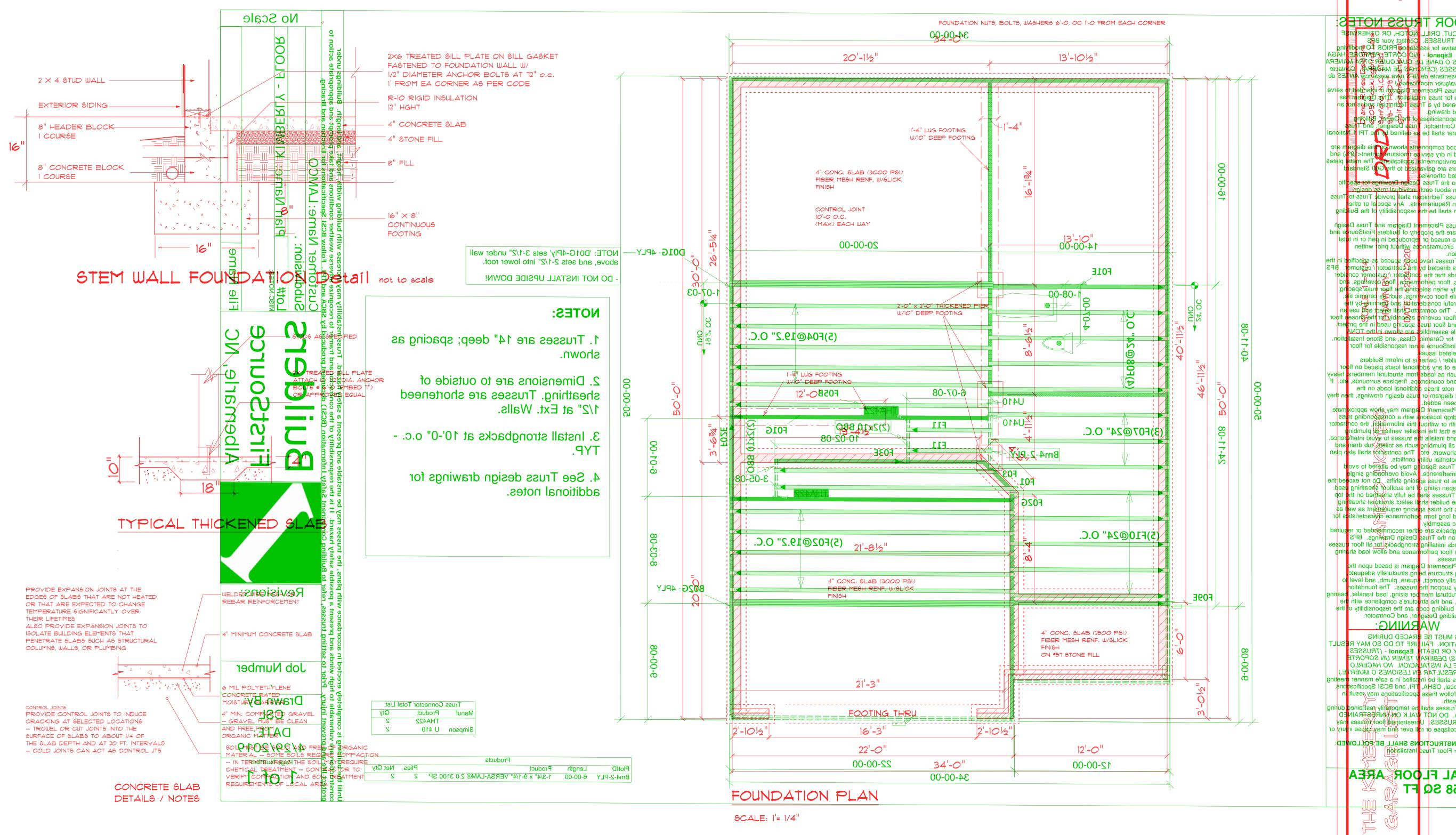




WARNING:

MUST BE BRACED DURING

Floor Truss Installation



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

PROVIDE WATER PROOFING AND PERIMETER DRAINS AS REQUIRED. FOUNDATION CONCRETE MIX TO HAVE 1-1/2" MAX AGGREGATE SIZE, CONCRETE FILL MIX TO HAVE 1/2" MAX AGGREGATE SIZE. FOOTING WIDTHS ARE BASED ON A LOAD-BEARING SOIL CAPACITY OF 2000 PSI. PROVIDE 6 MIL POLY VAPOR BARRIER TO COVER GROUND SURFACE IN CRAWL SPACE ALL ANCHOR BOLTS TO BE 12" LONG, 1/2" DIA. A36 UNO ANCHOR BOLTS SHALL BE SPACE AT A MAX OF 6' OC AND NO MORE THAN 1' FROM EA CORNER.

FOUNDATION NOTES:

ALL FOOTINGS SHALL BEAR ON ORIGINAL UNDISTURBED SOIL.

THE 28 DAY COMPRESSIVE STRENGTH OF ALL FOOTINGS IS 3000 PSI