



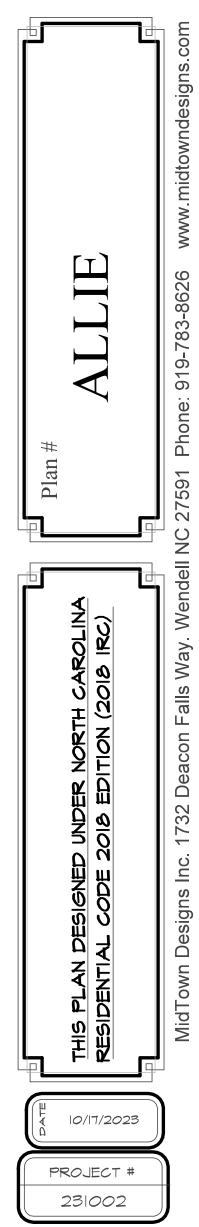
dimensions and conditions before beginning construction.

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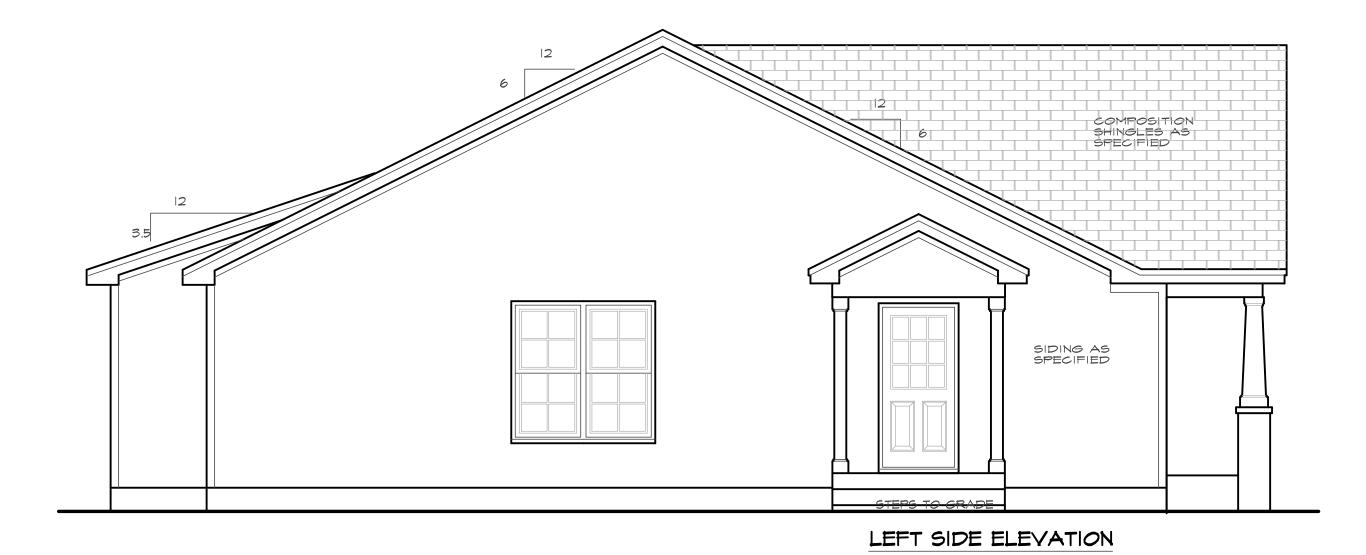


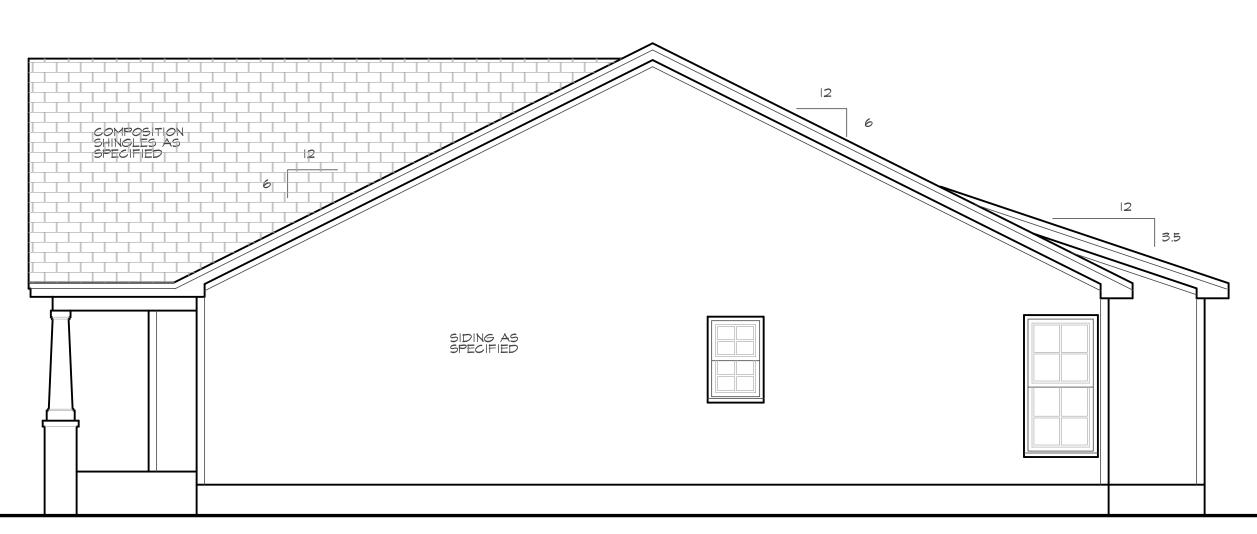
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REAR ELEVATION

SCALE 1/4" = 1'0"





SCALE 1/4" = 1'0"

RIGHT SIDE ELEVATION



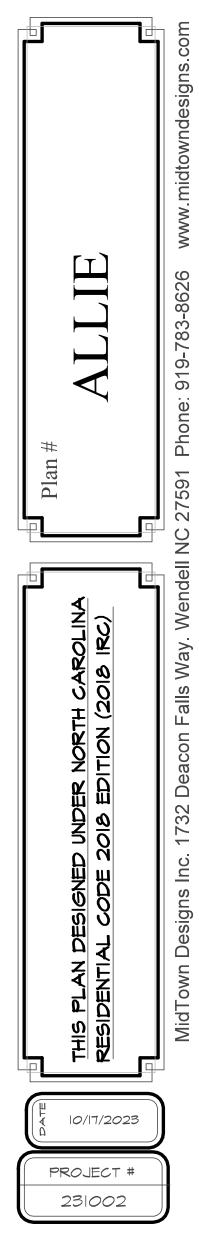
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FOUNDATION STRUCTURAL NOTES:

 $\langle 1 \rangle$ (3) 2 x 10 SPF #2 GIRDER DROPPED, TYPICAL UNO.

| 2 CONCRETE | BLOCK PIER SIZE SH | ALL BE: |
|------------|--------------------|-------------------|
| SIZE | HALLOW MASONRY | SOLID MASONRY |
| 8 x 16 | UP TO 32" HIGH | UP TO 5'-0" HIGH |
| 12 × 16 | UP TO 48" HIGH | UP TO 9'-0" HIGH |
| 16 × 16 | UP TO 64" HIGH | UP TO 12'-0" HIGH |
| 24 × 24 | UP TO 96" HIGH | |
| WITH 30" > | 30" × 10" CONCRETE | E FOOTING, UNO. |

 $\langle 3 \rangle$ WALL FOOTING AS FOLLOWS:

- DEPTH: 8" UP TO 2-1/2 STORY
- 10" 3 STORY

WIDTH: SIDING (OR EQUAL) - 16" - UP TO 2-1/2 STORY - 18" - 3 STORY

BRICK VENEER - 16" - 1 STORY - 20" - 2 STORY - 24" - 3 STORY

FOR FOUNDATION WALL HEIGHT AND BACKFILL REQUIREMENTS, REFER TO NORTH CAROLINA RESIDENTIAL CODE TABLE R404.I.I (I THRU 4) NOTE: ASSUMED SOIL BEARING CAPACITY = 2000 PSF. CONTRACTOR MUST VERIFY SITE CONDITIONS AND CONTACT SOILS ENGINEER IF MARGINAL OR UNSTABLE SOILS ARE ENCOUNTERED.

ATTACH SILL PLATE WITH 1/2"dia. ANCHOR BOLTS AT 6'-O" CENTERS (7" EMBEDMENT) AND 12" FROM EACH PLATE END. (SECTION R 403.1.6)

4 "" DESIGNATES A SIGNIFICANT POINT LOAD TO HAVE SOLID BLOCKING TO PIER. SOLID BLOCK ALL BEAM BEARING POINTS NOTED TO HAVE THREE OR MORE STUDS TO FND, TYPICAL.

5 ABBREVIATIONS:

"SJ" = SINGLE JOIST "DJ" = DOUBLE JOIST "TJ" = TRIPLE JOIST

FOUNDATION VENTING

SECTION R408 UNDER FLOOR SPACE

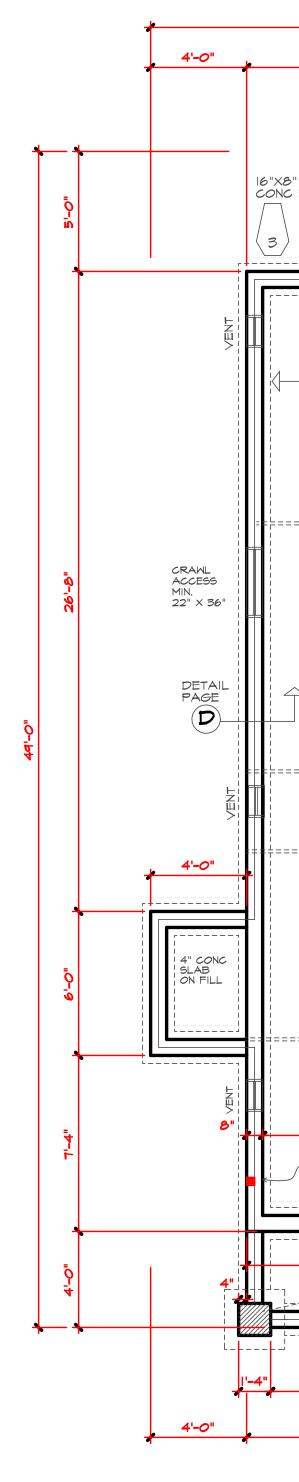
R408.1 Ventilation. The under-floor space between the bottom of the floor joists and the earth under any building (except space occupied by a basement or cellar) shall be provided with ventilation openings through foundation walls or exterior walls. The minimum net area of ventilation openings shall not be less than I square foot for each 150 square feet (0.67 m squared for each 100 m squared) of under-floor space area. One such ventilating opening shall be within 3 feet (914 mm) of each corner of said building.

CRAWL AREA TO BE VENTED: 971 SQ.FT. 971/1500 = 6.4 NET FREE VENTING AREA REQUIRED

R408.2 Ground Vapor Retarder A minimum 6 mil. polyethlyne vapor retarder shall be installed to cover all earth in the crawl space with joints lapped not less than 12"

FOUNDATION NOTES:

- Deck posts min. 4'-0" above grade are to be knee or diagonally braced per Appendix M. fastening to house will be by nailer with 5/8" galvanized bolts @ 20" o.c. and 12d hot
- dipped galv. @ 42° o.c. 2. Corners shall be braced with one of the
- approved methods as outlined in R602.10.3.
- 3. Structural members fastening to conform to Table R602.3(1) and (2).
- 4. Girders and piers shall bear on center 1/3 of
- pier and footing, respectively. 5. 2018 NC State Residential Building Code apply.
- to the construction of footings 6. Typical lug footing to be 18"x 8"deep, (UNO)
- 7. Pressure treated wood shall be installed for exterior use.
- 8. Hanger Schedule (Simpson hangers) for beam to beam connections (UNO)
- a. (2)2x10's: LUS210-2
- b. (3)2x10's: LUS210-3
- c. (2)9-1/4 LVL's: HUS410
- 9. Concrete shall have min. 28 day strength of 3000 psi. and max. Slump of 5 inches unless noted otherwise (UNO). Air entrained per Table 4022. All concrete shall be proportioned, mixed, handled, sampled, tested, and placed in accordance with ACI current standards. All samples for pumping shall be taken from the exit
- pump. 10. Allowable soil bearing pressure assumed to be 2000 psf. The contractor must contact Geotechnical Engineer & the Structural Engineer if unsatisfactory subsurface conditions are encountered. The surface area adjacent to the foundation wall shall be provided adequate drainage, and shall be graded so as to drain surface water away from foundation walls





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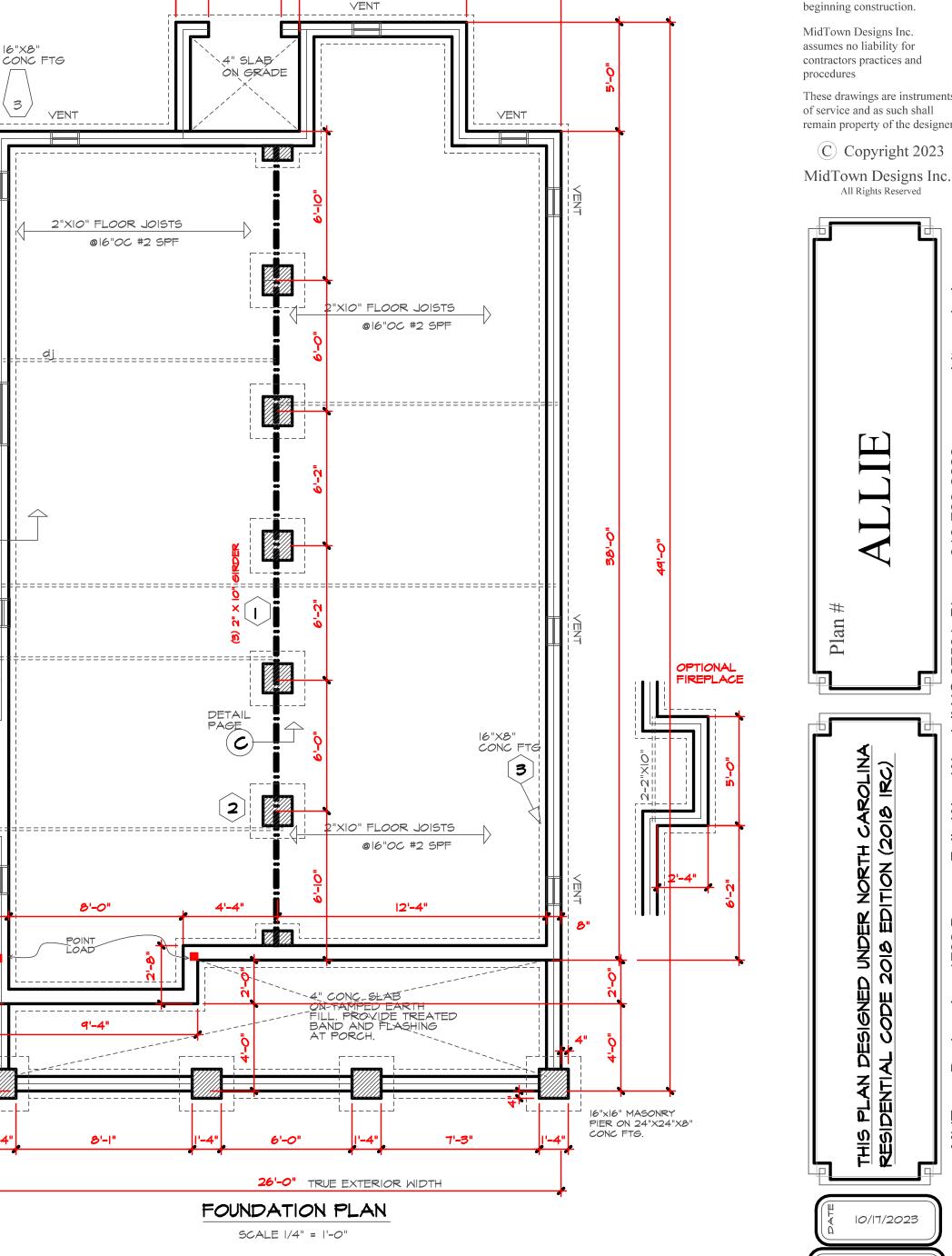
10/17/2023

PROJECT #

231002

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30'-0"

5'-8"

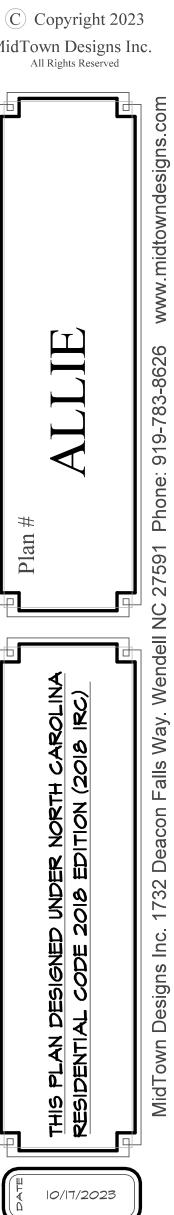
3'-4"

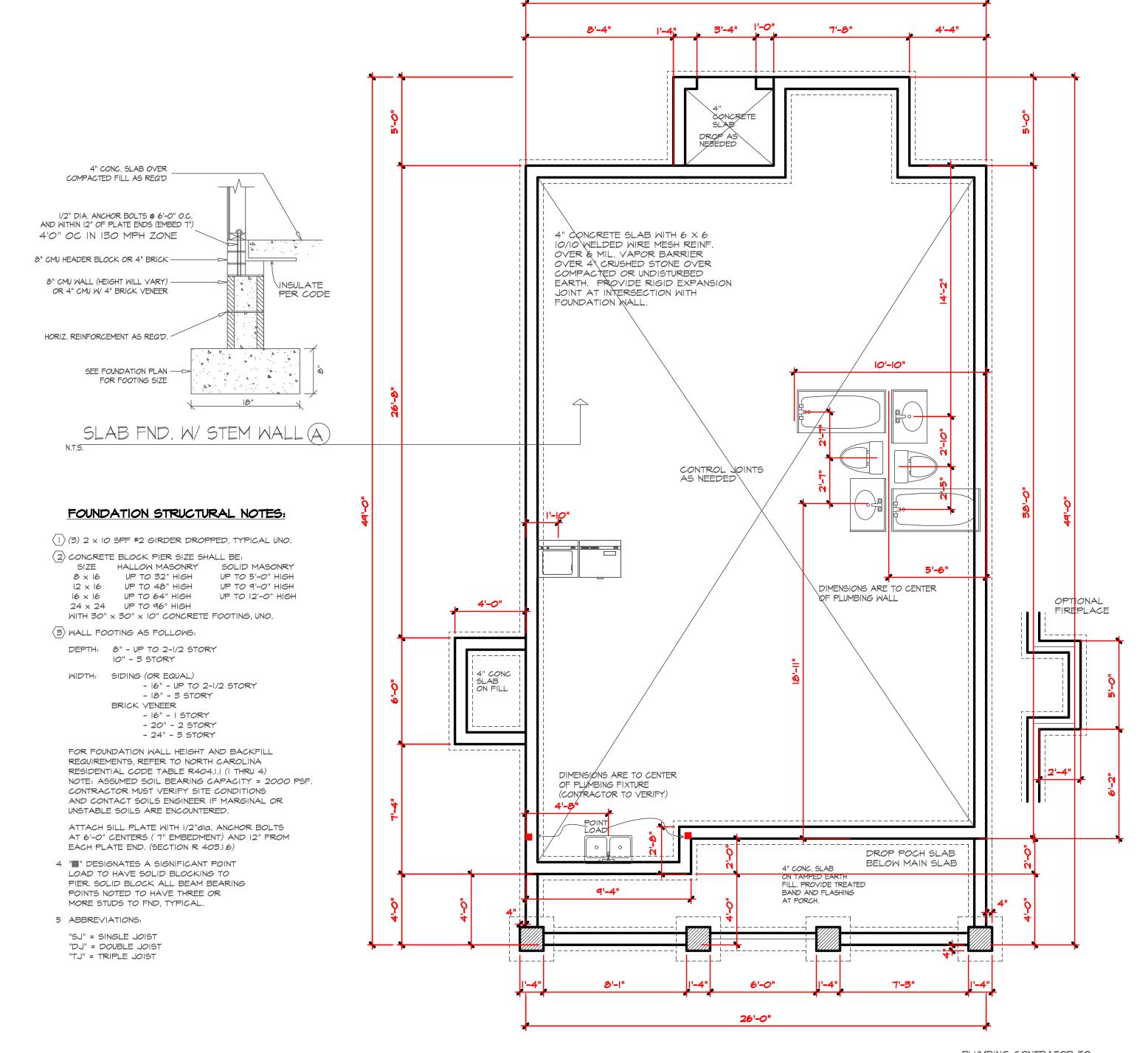
7'-8"

4'-4"

8'-4"

|**'-6**'





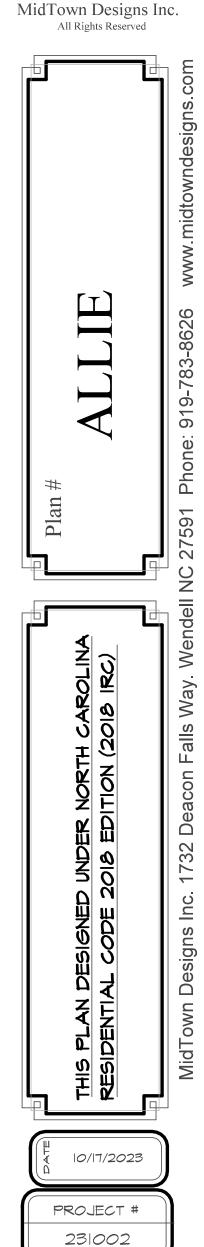


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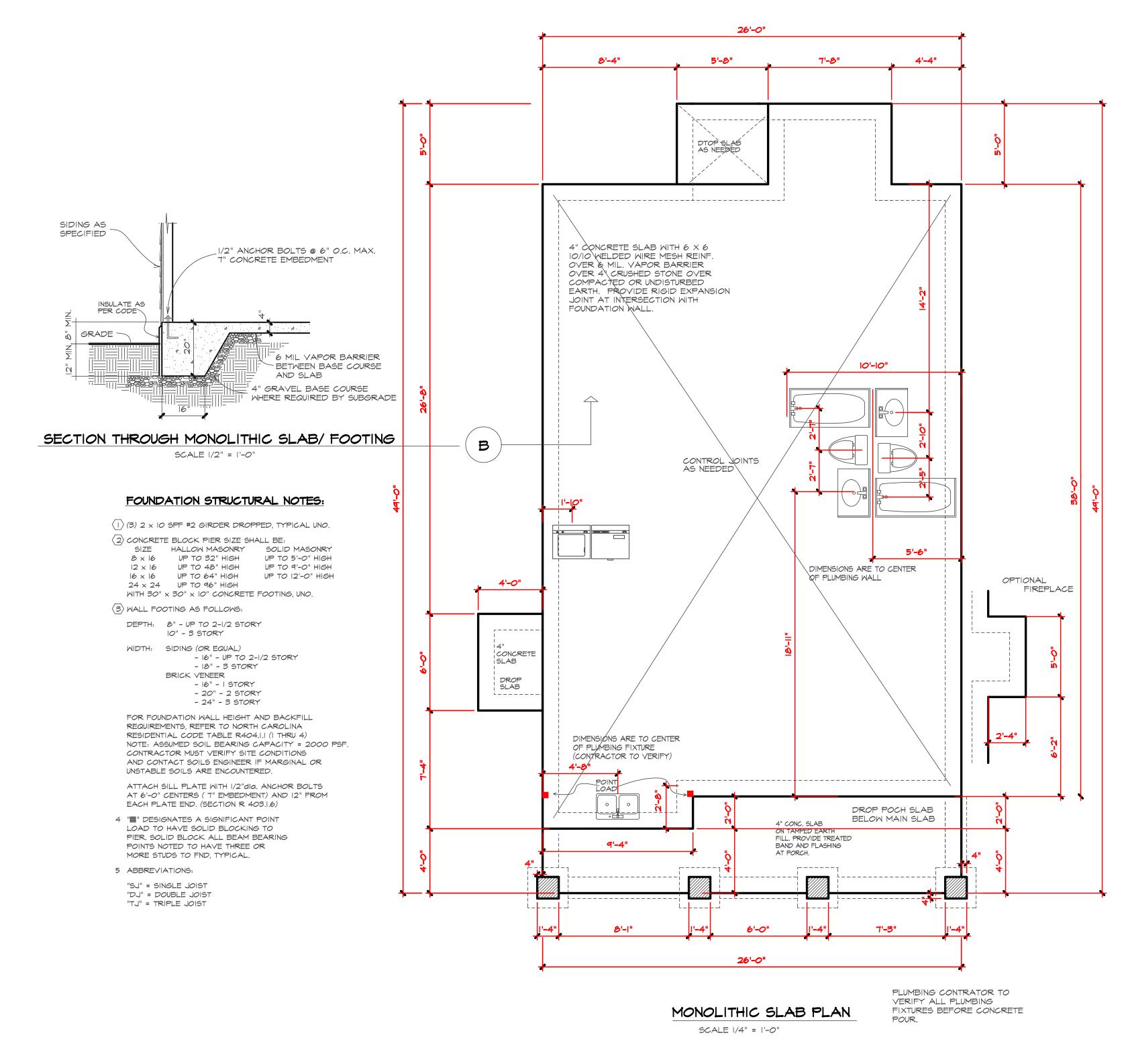
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STEM WALL FOUNDATION PLAN SCALE 1/4" = 1'-0"

26'-0"

PLUMBING CONTRATOR TO VERIFY ALL PLUMBING FIXTURES BEFORE CONCRETE POUR.





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STRUCTURAL NOTES:

- 1. Framing lumber shall be #2 SPF (modulus of of elasticity 1,100,000 psi, tb 950). All beams & treatec lumber to be #2 SYP, E=1,600,000, fb=1100 min. Studs min.#2 or stud grade.
- 2. Use hangers for all beam to beam connections Structural fastening as per R602.3(1). Adequate connections is the sole responsibility of the general contractor and his subs.
- 3. Structural members fastening to conform to Table R602.3(1) and (2).
- 4. Roof Framing Notes:
 - a. Dbl Hips may be spliced with a min, 6'-0"
 - overlap at center. No valley splices b. Use 2x10 or fir down rafters for vaulted areas
 - c. Attach vaulted rafters with hurricane connectors: Simpson H-2.5, H-5 or approved
 - equal.
- 5. All construction shall conform to the latest requirements of the NC State Residential Building Code - 2018 Edition, plus all local codes & regulations or 2015 IBC.
- 6. Structural Engineer is not responsible for and will not control of construction means, methods, techniques, sequences or procedures, or for safety precautions and programs in connection with the construction work.
- 7. Structural Engineer is not responsible for the contractor's failure to carry out the proposed construction work in accordance with the contract document.

FRAMING NOTES:

| 1. Design Loads (R301.5) | Live Loads (PSF) | Dead (PSF) |
|--|---------------------|---------------|
| Rooms not for Sleeping | 40 | 10 |
| Sleeping Rooms | 30 | 10 |
| Attic w/Permanent Stairs | 40 | 10 |
| Attic w/o Permanent Stairs | 20 | 10 |
| Attic w/o Storage | 10 | 10 |
| Stairs | 40 | - |
| Exterior Balconies | 60 | 10 |
| Decks | 40 | 10 |
| Guardrails & Handrails | 200 | - |
| Passenger Vehicle Garage | | 10 |
| Fire Escapes | 40 | 10 |
| Snow | 20 | - |
| Wind Load: (Refer to Table | | |
| Verify Zone before Constru | iction | |
| Wake County 115 mph | | |
| 2. Wall Bracing: Braced wall p | | |
| constructed according to s | | |
| The wall structural paneling | | |
| with Table R602.103. The I | | |
| panels shall be determined | | |
| Latera bracing shall be sat by continuously sheathing | | |
| sheathing per Table 601.3. | | |
| bracec wall detail shall be | | |
| 3. All framing lumber shall be | | |
| unless otherwise noted (UN | | |
| shall be SYP#2 (Fb=975 ps | | |
| be SPF#3 or SYP#3 (Fc (p | | |
| 4. All exterior headers to be (2 | | |
| Jacks for all openings >5'-0 | | |
| 5. All interior bearing headers | | 0 u.n.o. |
| w/ dbl. jacks for all opening | s >4'-6", use | e (2)2x8 |
| w/ dbl. Jacks for all opening | gs >3 -0" u.n. | .0. |
| 6. All interior non-bearing hea | ders to be m | in. (2)2x4 |
| flat u.n.o. | | |

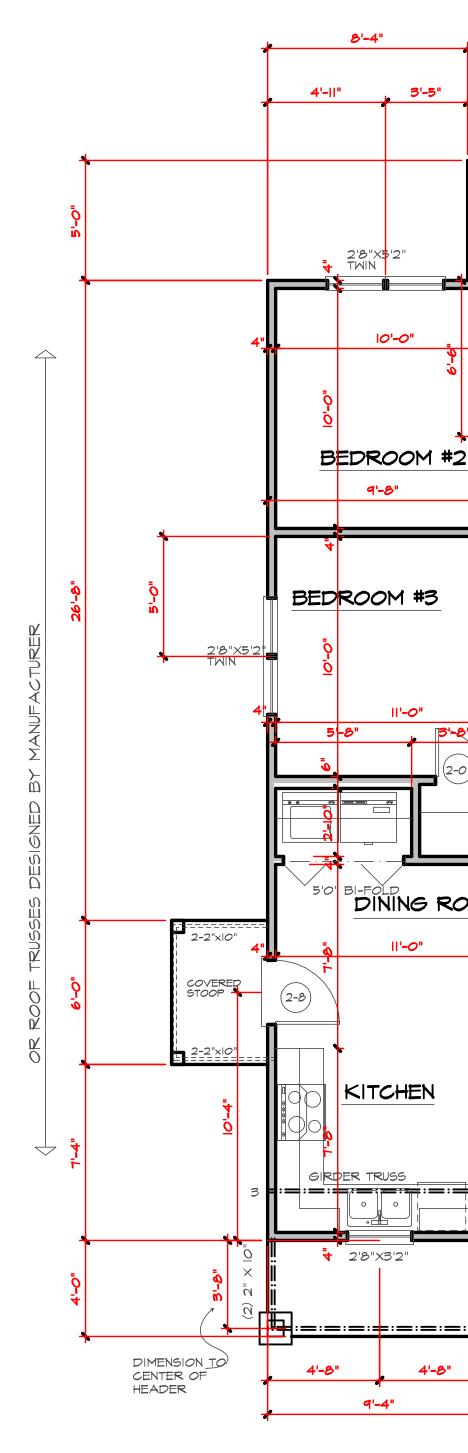
7. Fireblock to conform with R602.8

HEADER/BEAM ∉ COLUMN NOTES

I. ALL EXTERIOR AND LOAD BEARING HEADERS SHALL BE MIN. (2) 2×10 (4" WALL) OR (3) 2×10 (6" WALL) WITH (1) SUPPORT STUD, UNLESS NOTED OTHERWISE.

2. THE NUMBER SHOWN AT BEAM AND HEADER SUPPORTS INDICATES THE NUMBER OF SUPPORT STUDS REQUIRED IN STUD POCKET OR COLUMN. THE NUMBER OF KING STUDS AT EACH END OF HEADERS IN EXTERIOR WALLS SHALL BE ACCORDING TO ITEM "d" IN TABLE R(023(5) OR AS BELOW: TABLE R602.3(5) OR AS BELOW:

- UP TO 4' SPAN: (I) KING STUD - OVER 4' UP TO 8' SPAN: (2) KING STUDS - OVER 8' UP TO II' SPAN: (3) KINGS STUDS - OVER II' SPAN: (4) KING STUDS



8'-4"

2'8"X5'2" TWIN

10'-0"

BEDROOM #2

II'**-0**"

3'-8"

DINING ROOM

II'**-**0"

KITCHEN

GIRDER TRUSS

4 2'8"X3'2"

4'-8"

9'-4"

4'-8"

2-0)

5-8"

5'0'

9'-8"

3'-5"

5'-8'

4

4'0" BI-FOLD

(2-6)

(2-6)

1'-8

2'-4"

REFG

2-0

4'-1"

(3-0)

(2-0)

6'0" CASED

3'-4"

(3-0)

STOR.

4'-11"

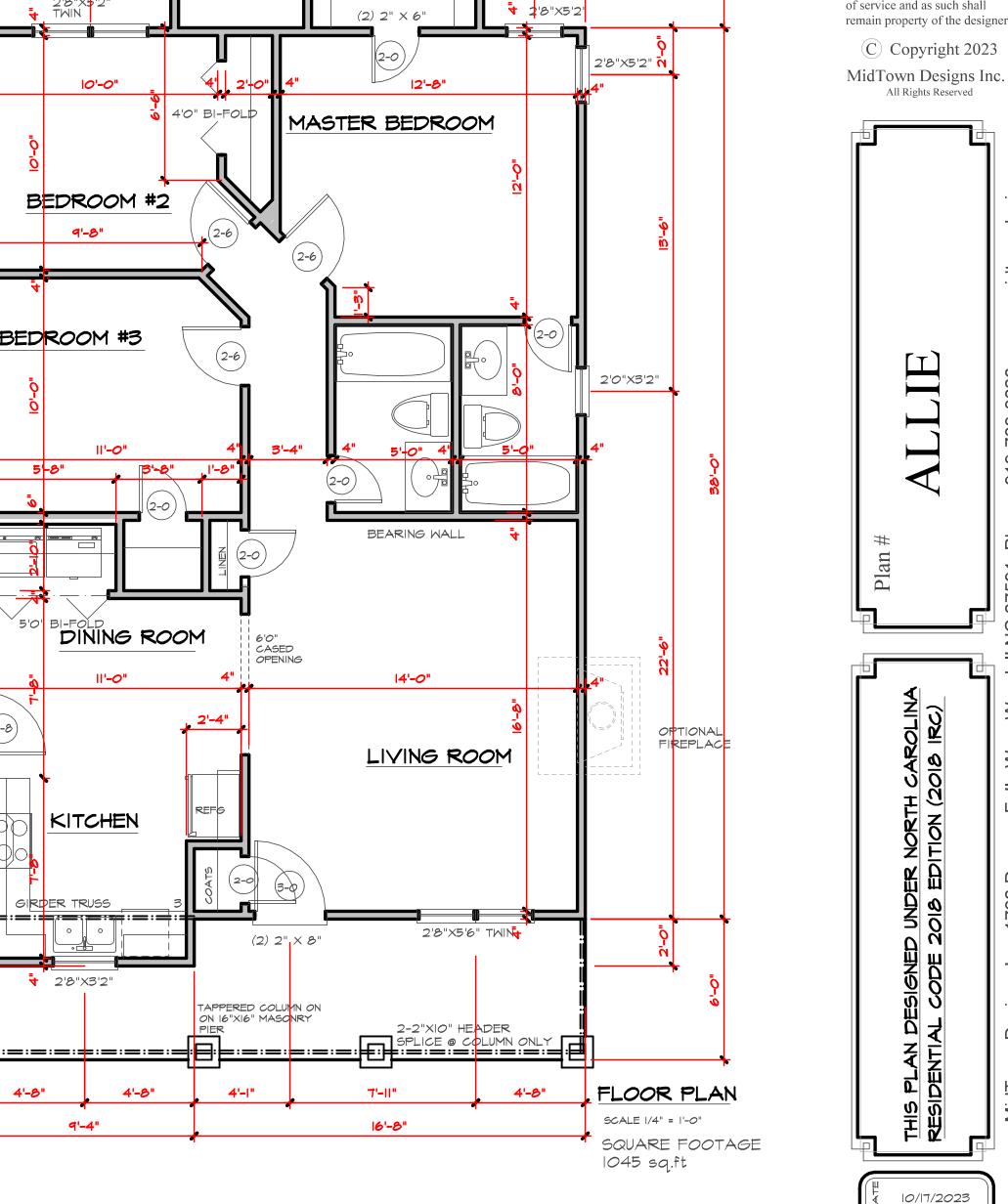
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4'-4"

2'-2"

13'-4"

7'-8"

WALK IN CLOSET



PROJECT #

231002

 TRUSS
 SYSTEM
 REQUIREMENTS

 NC
 (2018
 NCRC):
 Wind:
 II5-I20
 MPH

I. TRUSS SYSTEM LAYOUTS (PLACEMENT PLANS) SHALL BE DESIGNED IN ACCORDANCE WITH SEALED STRUCTURAL PLANS. ANY NEED TO CHANGE TRUSSES SHALL BE COORDINATED WITH SOUTHERN ENGINEERS.

2. TRUSS SCHEMATICS (PROFILES) SHALL BE PREPARED AND SEALED BY TRUSS MANUFACTURER.

3. ALL TRUSSES SHALL BE DESIGNED FOR BEARING ON SPF #2 OR #3 PLATES OR LEDGERS (UNO).

4. ALL REQUIRED ANCHORS FOR TRUSSES DUE TO UPLIFT OR BEARING SHALL MEET THE REQUIREMENTS AS SPECIFIED ON THE TRUSS SCHEMATICS.

5. INSTALL A TRUSS BELOW PARALLEL NON-LOAD BEARING WALLS OR BLOCK BETWEEN TRUSSES (BY TRUSS SUPPLIER) UNDER WALLS.

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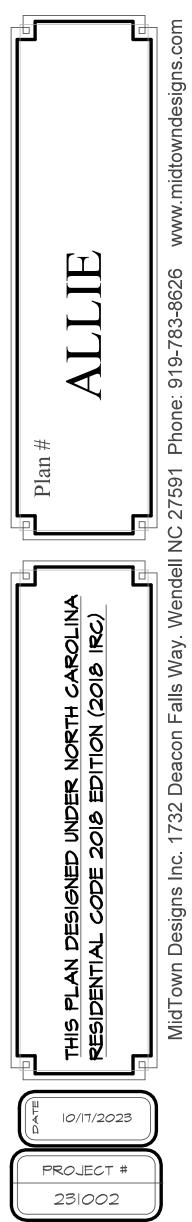
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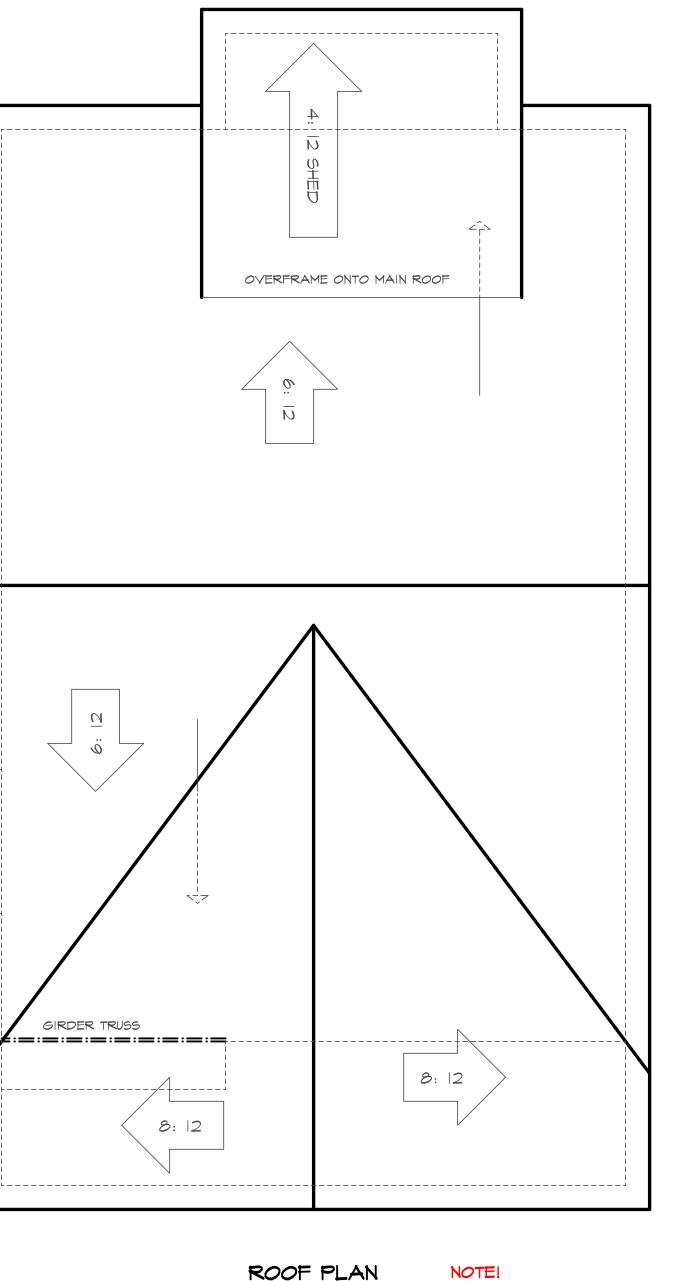
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SCALE 1/4" = 1'-0"

NOTE! IF ROOF TRUSSES SEE DRAWING BY MANUFACTURER

STRUCTURAL NOTES

I) ALL CONSTRUCTION SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE NORTH CAROLINA STATE RESIDENTIAL CODE - 2018 EDITION (2018 IRC), PLUS ALL LOCAL CODES AND REGULATIONS. ALL MEMBERS SHALL BE FRAMED, ANCHORED, TIED AND

BRACED IN ACCORDANCE WITH GOOD CONSTRUCTION PRACTICE AND THE BUILDING CODE.

2) DESIGN LOADS SEE TABLE R301.5

WIND SPEED: (REFER TO TABLE R301.2.4) VERIFY ZONE BEFORE CONSTRUCTION.

3) WALL BRACING: WALLS SHALL BE BRACED ALONG BRACED WALL LINES ACCORDING TO SECTION R602.10. THE AMOUNT, LOCATION, AND CONSTRUCTION OF BRACING SHALL COMPLY WITH R602.10. NOTE THAT THE BRACING SHOWN ON THE PLANS IS BASED ON THE PRESCRIPTIVE BRACING REQUIREMENTS OF THE CODE AND SHALL BE VERIFIED AND/ORAPPROVED BY THE CODE OFFICIAL.

4) CONCRETE SHALL HAVE A MINIMUM 28 DAY STRENGTH OF 3000 PSI AND A MAXIMUM SLUMP OF 5 INCHES UNLESS NOTED OTHERWISE (UNO). AIT ENTRAINED PER TABLE 402.2. ALL CONCRETE SHALL BE PROPORTIONED, MIXED, HANDLED, SAMPLED, TESTED AND PLACED IN ACCORDANCE WITH AC STANDARDS. ALL SAMPLES FOR PUMPING SHALL BE TAKEN FROM THE EXIT END OF THE PUMP.

5) ALLOWABLE SOIL BEARING PRESSURE ASSUMED TO BE 2000 PSF. THE CONTRACTOR MUST CONTACT A GEOTECHNICAL ENGINEER AND THE STRUCTURAL ENGINEER IF UNSATISFACTORY SUBSURFACE CONDITIONS ARE ENCOUNTERED. THE SURFACE AREA ADJACENT TO THE FOUNDATION WALL SHALL BE PROVIDED WITH ADEQUATE DRAINAGE, AND SHALL BE GRADED SO AS TO DRAIN SURFACE WATER AWAY FROM FOUNDATION WALLS.

6) ALL FRAMING LUMBER SHALL BE SPF #2(FB = 875 PSI) UNLESS NOTED OTHERWISE (UNO). ALL TREATED LUMBER SHALL BE SYP #2 (FB=975 PSI). PLATE MATERIAL MAY BE SPF #3 OR SYP #3 (FC(PERP) = 425 PSI - MIN).

7) ALL WOODEN BEAMS AND HEADERS SHALL HAVE THE FOLLOWING END SUPPORTS: (1) 2X4 STUD COLUMN FOR 6'-0" MAX. BEAM SPAN (UNO), (2)2X4 STUDS FOR BEAM SPAN GREATER THAN 6'-O" (UNO).

8) L.V.L SHALL BE LAMINATED VENEER LUMBER: FB=2600 PSI, FV=285 PSI, E=1,900,000 PSI. P.S.L SHALL BE PARALLEL STRAND LUMBER: FB=2900 PSI, FV=290 PSI, E=2,000,000 PSI. L.S.L SHALL BE LAMINATED STRAND LUMBER: FB=2250 PSI, FV=400 PSI, E=1,550,000 PSI. INSTALL ALL CONNECTIONS PER MANUFACTURER'S INSTRUCTIONS.

9) ALL ROOF TRUSS AND I-JOIST LAYOUTS SHALL BE PREPARED IN ACCORDANCE WITH THE SEALED STRUCTURAL DRAWINGS. TRUSSES AND -JOISTS SHALL BE INSTALLED ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS.

IO) ALL STRUCTURAL STEEL SHALL BE ASTM A-36. STEEL BEAMS SHALL BE SUPPORTED AT EACH END WITH A MINIMUM BEARING LENGTH OF 3 $\rm I/2^{\prime\prime}$ INCHES AND FULL FLANGE WIDTH. PROVIDE SOLID BEARING FROM BEAM SUPPORT TO FOUNDATION. BEAMS SHALL BE ATTACHED TO EACH SUPPORT WITH TWO LAG SCREWS (1/2" DIAMETER X 4" LONG). LATERAL SUPORT IS CONSIDERED ADEQUATE PROVIDED THE JOIST ARE TOE NAILED TO THE SOLE PLATE, AND SOLE PLATE IS NAILED OR BOLTED TO THE BEAM FLANGE @ 48" O.C. ALL STEEL TUBING SHALL BE ASTM A500.

II) REBAR SHALL BE DEFORMED STEEL. ASTM615, GRADE 60.

12) FLITCH BEAMS SHALL BE BOLTED TOGETHER USING (2) ROWS OF 1/2" DIAMETER BOLTS (ASTM A307) WITH WASHERS PLACED UNDER THE THREADED END OF BOLT. BOLTS SHALL BE SPACED AT 24" O.C. (MAX). AND STAGGERED AT THE TOP AND BOTTOM OF BEAM (2" EDGE DISTANCE), WITH 2 BOLTS LOCATED AT 6" FROM EACH END.

13) BRICK LINTELS SHALL BE 3 1/2"X3 1/2"X1/4" STEEL ANGLE FOR UP TO 6'-0" SPAN AND 6"X4"X5/I6" STEEL ANGLE WITH 6" LEG VERTICAL FOR SPANS UP TO 9'-0" (UNO)

14) THE POSITIVE AND NEGATIVE DESIGN PRESSURE FOR DOORS AND WINDOWS SEE R301.2(6)

DWELLING / GARAGE SEPARATION

REFER TO SECTIONS R302.5, R302.6, AND R302.7

WALLS. A minimum 1/2" gypsum board must be installed on all walls supporting floor/ceiling assemblies used for separation required by this section.

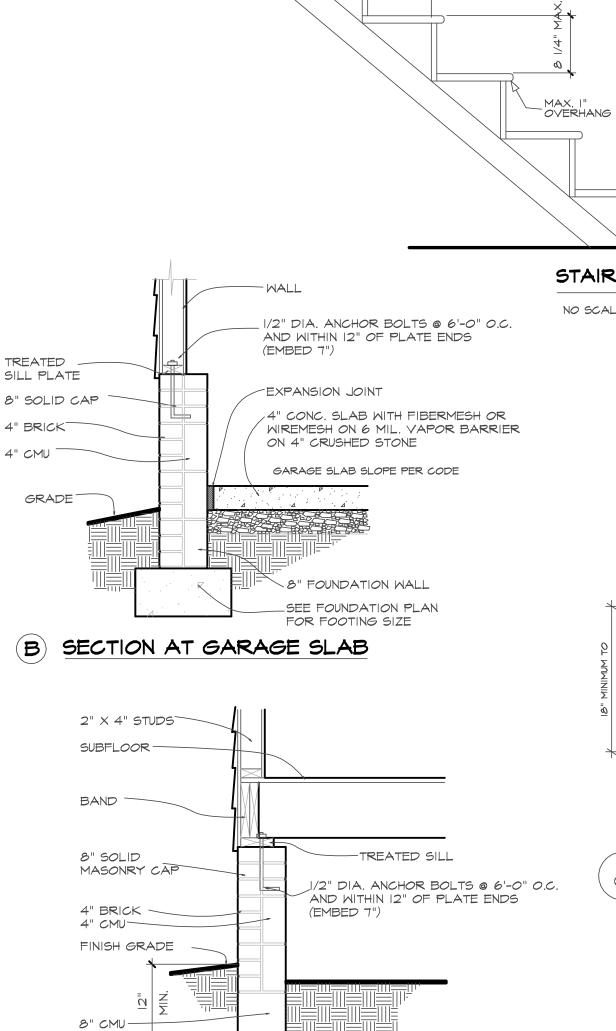
STAIRS. A minimum of $\ensuremath{\mathsf{I}/2}\xspace$ gypsum board must be installed on the underside and exposed sides of all stairways.

CEILINGS. A minimum of 1/2" gypsum must be installed on the garage ceiling if there are no habitable room above the garage. If there are habitable room above the garage a minimum of 5/8" type imes gypsum board must be installed on the garage ceiling.

OPENING PENETRATIONS. Openings between the garage and residence shall be equipped with solid wood doors not less than 1 3/8 inches (35 mm) in thickness, solid or honeycomb core steel doors not less than 1 3/8 inches (35 mm) thick, or 20-minute fire-rated doors.

DUCT PENETRATIONS. Ducts in the garage and ducts penetrating the walls or ceilings separating the *dwelling* from the garage shall be constructed of a minimum No. 26 gage (0.48 mm) sheet steel or other approved material and shall have no openings into the garage.

OTHER PENETRATIONS. Penetrations through the separation required in Section R302.6 shall be protected as required by Section R302.11, Item 4.



9" MIN



SEE FOUNDATION

PLAN FOR

FOOTING SIZE

| CLIMATE ZONE | FENESTRATION U-FACTOR ^d |
|--|--|
| 3 | 0.35 |
| 4 | 0.35 |
| 5 | <u>0.35</u> |
| a. Nonfenestration U b. When more than he in Climate Zone 5. | alf the insulation is |
| c. Basement wall U-4 <u>d. A maximum of tw</u> <u>substituted for mir</u> <u>compliance metho</u> | factor of 0.360 in w o glazed fenestratic nimum code compli d to allow continue |
| | applicable, but the |

STAIR NOTES:

- I. STAIRS RISERS MUST BE UNIFORM AND NOT EXCEED & 1/4".
- 2. TREADS SHALL NOT BE LESS THAN IO" DEEP A I" PROJECTION OVER RISER IS PERMITTED.
- 3. A MINIMUM OF 6'8" HEADROOM MUST BE MAINTAINED AT ALL PLACES ON STAIR
- 4. THE WIDTH OF THE STAIR SHALL BE A MINIMUM OF 3'O". HANDRAIL MAY PROJECT FROM EACH SIDE OF STAIR A DISTANCE OF 3 1/2" INTO THE REQUIRED WIDTH.
- 5. WINDERS MUST BE A MINIMUM OF 9" IN WIDTH AT 12" FROM THE NARROWEST SIDE. TREAD SHALL BE NO NARROWER THAN 4" AT ANY POINT AND AVERAGE NO LESS THAN 9 INCHES.
- 6. HANDRAILS SHALL BE NO LESS THAN 34" AND NO MORE THAN 38" ABOVE TREAD NOSING. 7. WINDERS AND SPIRAL STAIRS SHALL HAVE THE HANDRAIL LOCATED ON THE OUTSIDE RADIUS.
- 8. ALL REQUIRED HANDRAILS SHALL BE CONTINUOUS THE FULL LENGTH OF THE STAIRS.

OVERLAP

Joist.

◄ (3) 2 X IO GIRDER

(3)/2 ×/10 GIRDER

UNLESS NOTED

OTHERWISE

🗲 8" SOLID

- 2 X 6 TREATED

SILL PLATE

MASONRY CAP

CONCRETE FOOTING

AS SPECIFIED SET

BOTTOM OF

FOOTING BELOW

THE FROST LINE

UNLESS NOTED

OTHERWISE

SILL PLATE

— 2 X 6 TREATED

STAIR DETAIL

FLOOR JOIST

AS SPECIFIED

FLOOR JOIST

AS SPECIFIED

MINIMUM

2 X 2 LEDGER

STRIPS OR

HANGERS

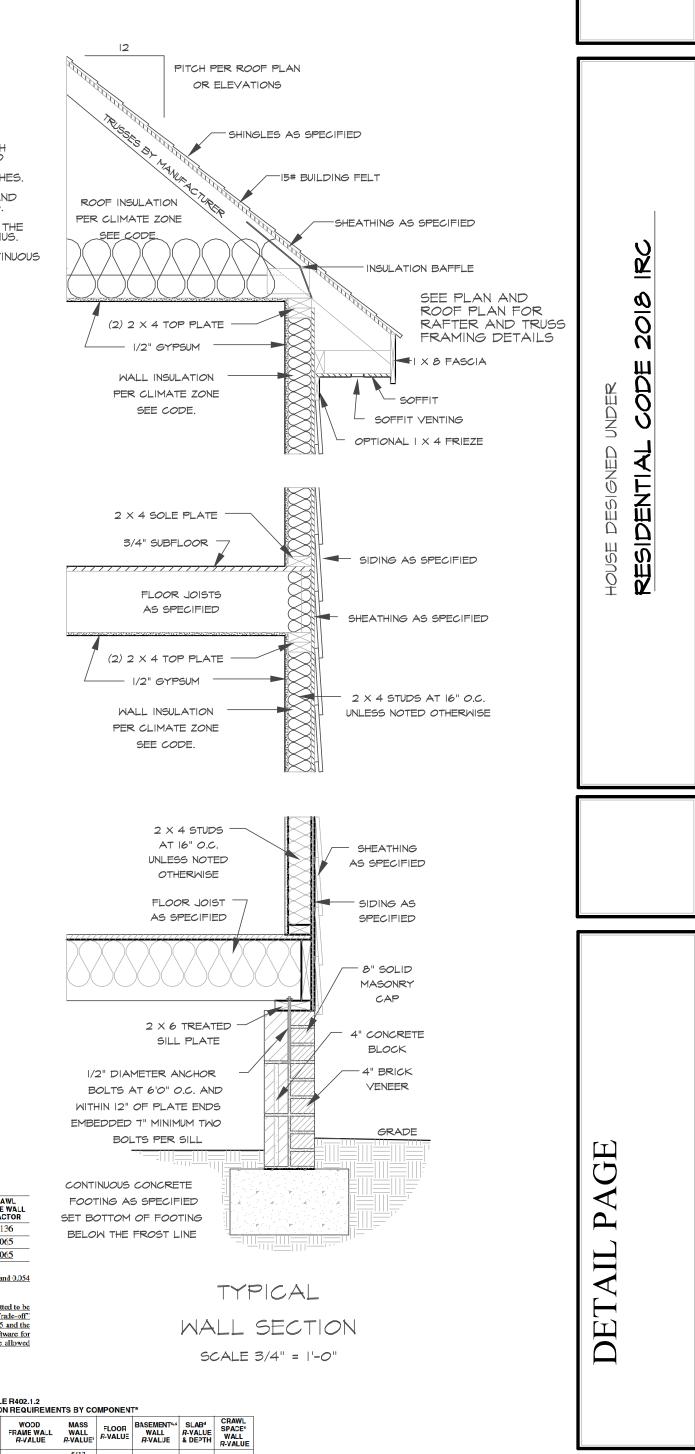
PIER SIZE AS

SPECIFIED

8" SOLID -

MASONRY CAP

NO SCALE



| | | | BLE R402.1.4 ENT <i>U</i> -FACT | ORS* | | | |
|---|----------------------|---------------------|------------------------------------|------------------------|-------------------|------------------------------|---------------------------------|
| N | SKYLIGHT U-FACTOR | CEILING U-FACTOR | FRAME WALL UFACTOR | MASS WALL U-FACTOR® | FLOOR U-FACTOR | BASEMENT WALL U-FACTOR | CRAWL SPACE WALL U-FACTOR |
| | 0.55 | 0.030 | 0.077 | <u>0.141</u> | 0.047 | 0.091° | 0.136 |
| | 0.55 | 0.030 | 0.077 | <u>0.141</u> | 0.047 | 0.059 | 0.065 |
| | 0.55 | <u>0.030</u> | 0.061 | 0.082 | 0.033 | 0.059 | 0.065 |

DROPPED/ FLUSH PIER

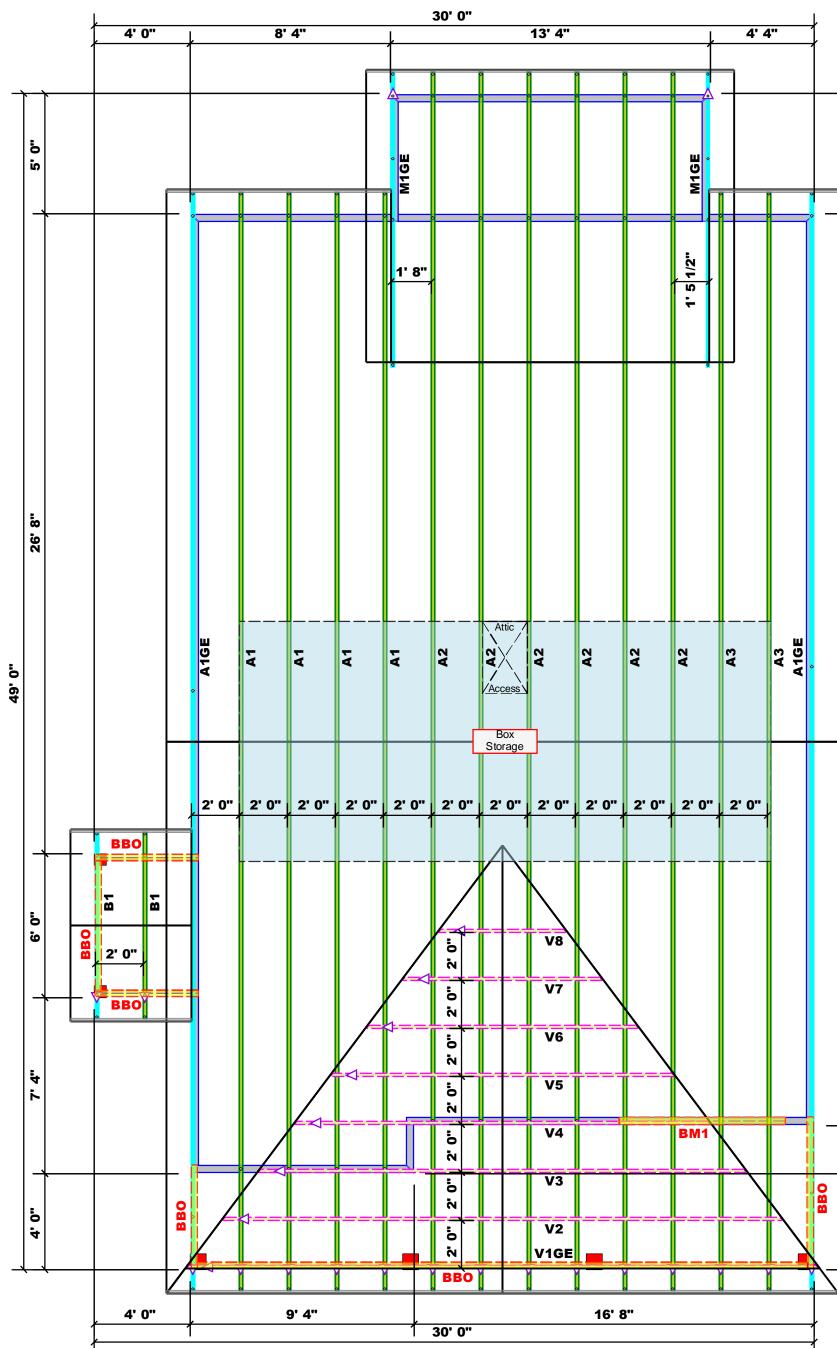
SCALE 3/4" = 1'-0"

on is on the interior, the mass wall U-factors shall be a maximum of 0.07 in Climate Zone 3, 0.07 in Climate Zone 4 and 0.054 0 in warm-humid locations as defined by Figure R301.1 and Table R301.1.

stration product assemblies having a U-factor no greater than 0.55 and a SHGC no greater than 0.70 shall be permitted to be sympliant fenestration product assemblies without penalty. When applying this note and using the REScheck "UA Trade-off" trinued use of the software, the applicable fenestration products shall be modeled as meeting the U-factor of 0.35 and the SHGC of 0.30, as applicable, but the fenestration products actual *U*-factor and actual SHGC shall be noted in the comments section of the software for documentation of application of this note to the applicable products. Compliance for these substitute products shall be verified compared to the allowed substituted maximum *U*-value requirement and maximum SHGC requirement, as applicable.

TABLE R402.1.2 INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENT*

| | Index non And Feneration The demethor of Commonent | | | | | | | | | |
|---------------|--|---|--|--|---|---------------------------------|--------------------------|--|---|------------------------------------|
| CLIMA ZONE | | SKYLIGHT ^ь <i>U</i> -FACTOR | GLAZED FENESTRATION SHGC ^{6, k} | CEILING R-VALUE ^m | WOOD FRAME WALL <i>R</i> -VALUE | MASS WALL <i>R</i> -VALUE | FLOOR <i>R</i> -VALUE | BASEMENT ^{e.s} WALL <i>R</i> -VALUE | SLAB ^d <i>R</i> -VALUE & DEPTH | CRAWL SPACE° WALL R-VALUE |
| 3 | 0.35 | 0.55 | 0.30 | <u>38 or</u> <u>30ci</u> ¹ | 15 or 13+2.5 ^h | <u>5/13</u> or 5/10ci | 19 | 5/13 ^r | 0 | 5/13 |
| 4 | 0.35 | 0.55 | 0.30 | <u>38 or</u> <u>30ci¹</u> | <u>15</u> or 13+ <u>2.5</u> ^h | <u>5/13</u> or 5/10ci | 19 | 10/ <u>15</u> | 10 | 10/ <u>15</u> |
| 5 | <u>0.35</u> | 0.55 | NR | <u>38 or</u> <u>30ci¹</u> | <u>19ⁿ or 13+5^h</u> <u>or</u> <u>15+3^h</u> | 13/17 <u>or</u> 13/12.5ci | 30 ⁸ | <u>10/15</u> | 10 | <u>10</u> /19 |



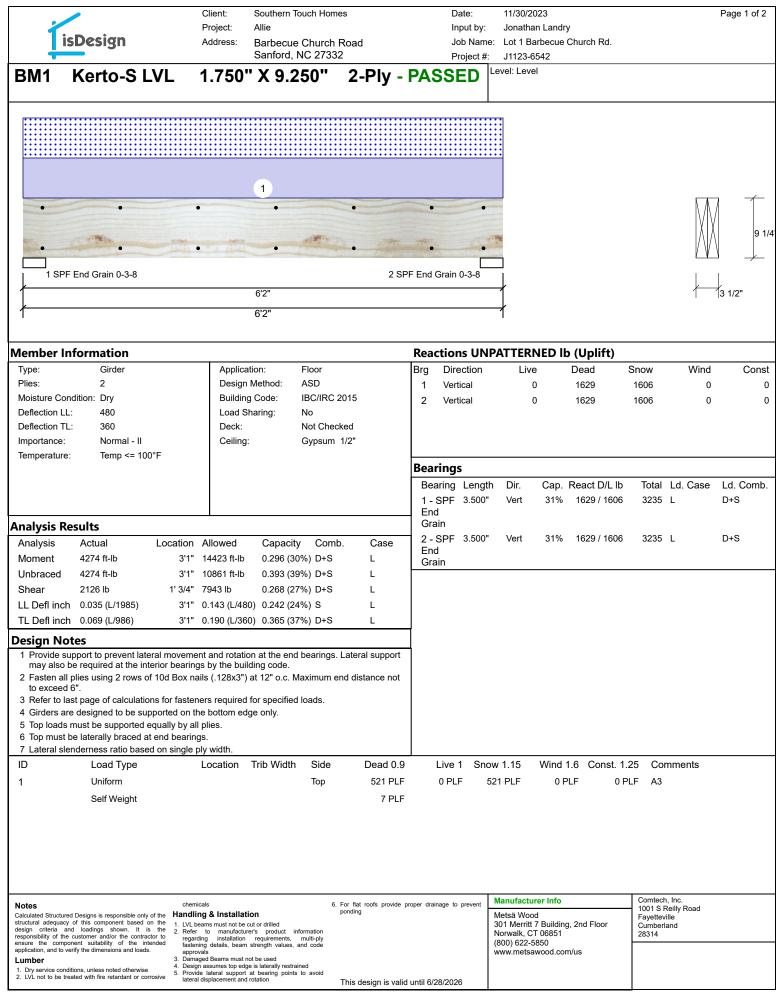
5' 0"

38' 0" 49' 0"

2. 0.

4. 0"

| | Bearing deemed requirer size and reaction reaction reaction retained reation retained reation retained | RUS Reilly R Fayet Phon | OF & SES coad Ir teville e: (910) (910) s less that y with the e contract derived f determin of wood s than 300 red design in the sup | & FL & B ndustr , N.C.) 864 864-4 a prescriptor studs req # but no n profess port syste port syste | OOF EAN ial Par 28309 -8787 i444 i to 3000# tive Code efer to th orescriptivi imum focu uired to s t greater fa imum for any ed in the a ional shall | are e code ndation upport han II be //ttrached | |
|---|---|--|---|--|---|--|--|
| | | _{re} <u>Jo</u> J | | | | | |
| All Headers Are Considered 2X10 Beams Unless Otherwise Noted | NUM | AD CHA (BASEC MBER OF JA NBUN HEADER (2) NU HEADER (2) | ON TABL | ES R502.5(1 REQUIRED /GIRDER | l) & (b)) | OF | |
| All Walls Shown Are Considered Load Bearing | 1700 3400 5100 6800 8500 10200 11900 13600 | 1 2 3 4 5 6 7 8 | 2550 5100 7650 10200 12750 15300 | 1 2 3 0 4 0 5 | 340 680 1020 1360 | 0 1 0 2 | |
| Roof Area = 1626.94 sq.ft. Ridge Line = 33.04 ft. Hip Line = 1.4 ft. Horiz. OH = 77.5 ft. Raked OH = 127.47 ft. Decking = 56 sheets | 15300 | 9 | | | | | |
| Dimension Notes 1. All exterior wall to wall dimensions are to face of sheathing unless noted otherwise 2. All interior wall dimensions are to face of stud unless noted otherwise 3. All exterior wall to truss dimensions are to face of stud unless noted otherwise Hatch Legend | Sanford / Lee | Barbecue Church Road | Roof | 11/30/23 | Jonathan Landry | Lenny Norris | |
| Box Storage Drop Beam | CITY / CO . 5a | ADDRESS Ba | MODEL Ro | DATE REV. 11/ | DRAWN BY Jo | SALES REP. Le | |
| ProductsPlotIDLengthProductPliesNet QtyBM17' 0"1-3/4"x 9-1/4" LVL Kerto-S22 | | | | | | | |
| Truss Placement Plan Scale: 1/4"=1' | Southern Touch Homes | Lot 1 Barbeque Church Rd. | Allie | N/A | | J1123-6542 | |
| | BUILDER | JOB NAME | PLAN | SEAL DATE | QUOTE # | JOB # | |
| ▲= Denotes Left End of Truss (Reference Engineered Truss Drawing) | These compo design See ind identifi design permar for the suppor and co design consul | A TRUSS trusses an nents to It at the sp dividual d ed on the er is resp nent braci overall st t structur lumns is er. For ge t BCSI-B1 kelivery pa | re design be incorp ecification esign she placement onsible for ng of the tructure. The e includir the responeral guis and BCS | ed as ind prated int n of the b ets for ea nt drawin or tempor roof and The desig ng header nsibility of dance reg il-B3 prov | ividual bu o the buil uilding de uch truss g. The bu ary and floor syst n of the tu s, beams of the buil parding br ided with | ilding ding esigner. design ilding eem and russ , walls, ding acing, the | |



| | | Client: | Southern Touch Hon | nes | Date: | 11/30/2023 | Page 2 of 2 |
|--|--|--|--|----------------------------------|----------------------------|--|--|
| 1 | isDesign | Project: Address: | Allie Barbecue Church | | Input by: Job Name | Jonathan Landry e: Lot 1 Barbecue Church Rd. | |
| | | 4 7501 | Sanford, NC 2733 | | Project #: | J1123-6542 Level: Level | |
| BM1 | Kerto-S LVL | 1.750 | ' X 9.250" | 2-Piy - | PASSED | | |
| | | | | | | | |
| | • | • | • | • | • • | <1 1/2" | 9 1/4 |
| | SPF End Grain 0-3-8 | | | 2 S | PF End Grain 0-3-8 | | |
| | | | 6'2" | | | | 3 1/2" |
| | | | 6'2" | | | | |
| Multi-Pl | y Analysis | | | | | | |
| Fasten al Capacity Load Yield Limit p CM Yield Mode Edge Distar Min. End Di: Load Combi Duration Fa | ber Fastener 81.9 ll 1 IV nce 1 1/2" stance 3" ination | _F PLF b. | (.128x3") at 12" c | o.c Maximum | n end distance no | ot to exceed 6". | |
| structural adeq design criteria responsibility of ensure the or application, and Lumber | tured Designs is responsible only of the Ha uacy of this component based on the 1. a nad loadings shown. It is the 2. omponent suitability of the intended to verify the dimensions and loads. | regarding installation fastening details, beam approvals Damaged Beams must n | on cut or drilled er's product information requirements, multi-ply strength values, and code ot be used | . For flat roofs provide ponding | proper drainage to prevent | Manufacturer Info Metsä Wood 301 Merrit 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850 www.metsawood.com/us | Comtech, Inc. 1001 S Reilly Road Fayetteville Cumberland 28314 |
| 1. Dry service | conditions, unless noted otherwise 5. | Design assumes top edg Provide lateral support lateral displacement and | at bearing points to avoid | This design is vali | d until 6/28/2026 | | |



RE: J1123-6542 Lot 1 Barbecue Church Rd. Trenco 818 Soundside Rd Edenton, NC 27932

Site Information:

Customer: Southern Touch Homes Project Name: J1123-6542 Lot/Block: 1 Address: Barbecue Church Road City: Sanford

Model: Allie Subdivision: Barbecue Church Rd. State: NC

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):

Design Code: IRC2015/TPI2014 Wind Code: ASCE 7-10 Roof Load: 40.0 psf

Design Program: MiTek 20/20 8.4 Wind Speed: 150 mph Floor Load: N/A psf

This package includes 14 individual, dated Truss Design Drawings and 0 Additional Drawings.

| No. | Seal# | Truss Name | Date |
|-----|-----------|------------|------------|
| 1 | 162158871 | A1 | 11/22/2023 |
| 2 | 162158872 | A1GE | 11/22/2023 |
| 3 | 162158873 | A2 | 11/22/2023 |
| 4 | 162158874 | A3 | 11/22/2023 |
| 5 | 162158875 | B1 | 11/22/2023 |
| 6 | 162158876 | M1GE | 11/22/2023 |
| 7 | 162158877 | V1GE | 11/22/2023 |
| 8 | 162158878 | V2 | 11/22/2023 |
| 9 | 162158879 | V3 | 11/22/2023 |
| 10 | 162158880 | V4 | 11/22/2023 |
| 11 | 162158881 | V5 | 11/22/2023 |
| 12 | 162158882 | V6 | 11/22/2023 |
| 13 | 162158883 | V7 | 11/22/2023 |
| 14 | 162158884 | V8 | 11/22/2023 |

The truss drawing(s) referenced above have been prepared by

Truss Engineering Co. under my direct supervision

based on the parameters provided by Comtech, Inc - Fayetteville.

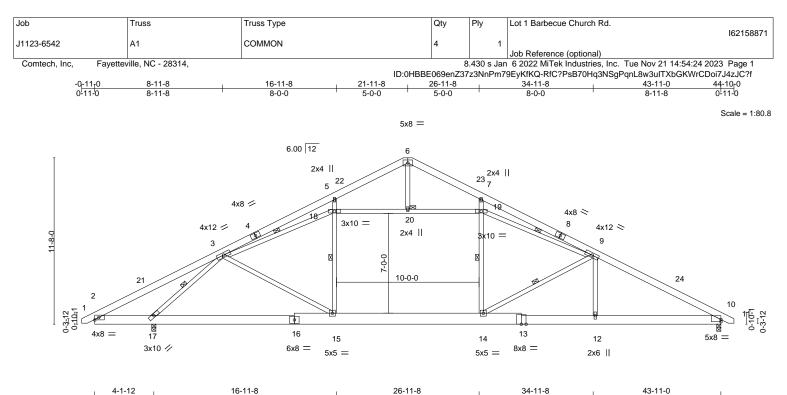
Truss Design Engineer's Name: Gilbert, Eric

My license renewal date for the state of North Carolina is December 31, 2023

North Carolina COA: C-0844

IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to TRENCO. Any project specific information included is for TRENCO customers file reference purpose only, and was not taken into account in the preparation of these designs. TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.





| F | 4-1-12 | 12-9-12 | 1 | 10-0-0 | 1 | 8-0- | 0 | 8-11-8 | 1 |
|---------------------|---------------------|---------|----------|----------|-------------|--------|-----|----------------|----------|
| Plate Offsets (X,Y) | - [10:0-0-0,0-1-13] | | | 1 | | | | | |
| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
| TCLL 20.0 | Plate Grip DOL | 1.15 | TC 0.34 | Vert(LL) | -0.29 12-14 | >999 | 360 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.62 | Vert(CT) | -0.45 12-14 | >999 | 240 | | |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 1.00 | Horz(CT) | 0.05 10 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2015/1 | PI2014 | Matrix-S | Wind(LL) | 0.27 12-14 | >999 | 240 | Weight: 378 lb | FT = 20% |
| | | | | | | | | | |
| LUMBER- | | | | BRACING- | | | | | |

| LUMBER- | | BRACING- | | |
|-----------|----------------------|-----------|--------------------------------|---------------------------------------|
| TOP CHORD | 2x6 SP No.1 | TOP CHORD | Structural wood sheathing | directly applied or 4-4-9 oc purlins. |
| BOT CHORD | 2x8 SP No.1 *Except* | BOT CHORD | Rigid ceiling directly applied | d or 10-0-0 oc bracing, Except: |
| | 13-16: 2x10 SP No.1 | | 6-0-0 oc bracing: 2-17. | |
| WEBS | 2x4 SP No.2 | WEBS | 1 Row at midpt | 3-17, 5-15, 7-14, 9-14, 3-18, 9-19 |
| | | JOINTS | 1 Brace at Jt(s): 20 | |
| DEACTIONS | | | | |

REACTIONS. (size) 10=0-3-8, 17=0-3-8 Max Horz 17=197(LC 11) Max Uplift 10=-314(LC 13), 17=-363(LC 12) Max Grav 10=1630(LC 2), 17=1976(LC 2)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown.

TOP CHORD 2-3=-697/566, 3-5=-516/130, 5-6=-452/296, 6-7=-407/280, 7-9=-534/147,

9-10=-2912/996

 BOT CHORD
 2-17=-391/749, 15-17=-360/1612, 14-15=-408/2107, 12-14=-705/2476, 10-12=-704/2481

 WEBS
 3-17=-2560/1419, 3-15=-105/771, 15-18=0/409, 5-18=-403/380, 14-19=0/479, 7-19=-277/308, 9-14=-793/375, 9-12=-9/415, 18-20=-1784/700, 19-20=-1784/700, 3-18=-1853/725, 9-19=-1858/728

NOTES-

1) Unbalanced roof live loads have been considered for this design.

2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 21-11-8, Exterior(2) 21-11-8 to 26-4-5, Interior(1) 26-4-5 to 44-7-10 zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

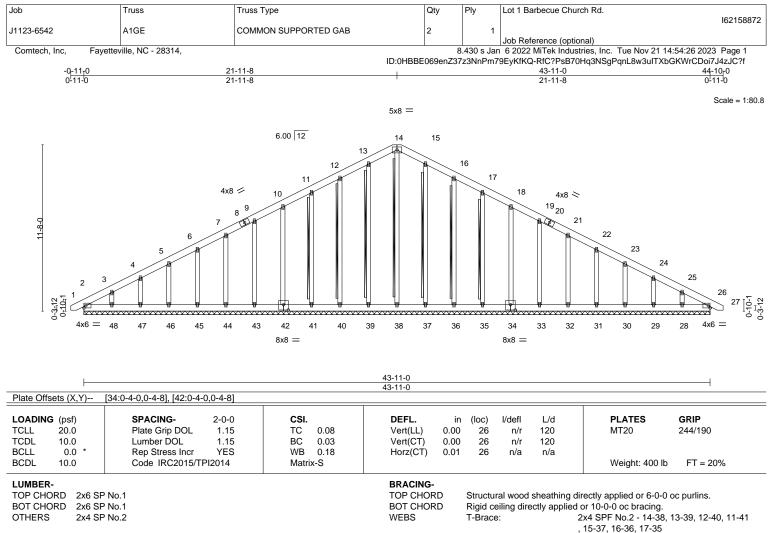
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide

will fit between the bottom chord and any other members, with BCDL = 10.0psf.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 314 lb uplift at joint 10 and 363 lb uplift at joint 17.

SEAL 036322 November 22,2023

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcaccomponents.com)



Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c.,with 3in minimum end distance. Brace must cover 90% of web length.

REACTIONS. All bearings 43-11-0. (Ib) - Max Horz 2=305(LC 16)

- Max Uplift All uplift 100 lb or less at joint(s) 2, 39, 37 except 40=-122(LC 12), 41=-109(LC 12), 42=-107(LC 12), 43=-107(LC 12), 44=-108(LC 12), 45=-108(LC 12), 46=-108(LC 12), 47=-108(LC 12), 48=-182(LC 12), 36=-126(LC 13), 35=-110(LC 13), 34=-107(LC 13), 33=-107(LC 13), 32=-108(LC 13), 30=-108(LC 13), 29=-107(LC 13), 28=-164(LC 13) Max Grav All reactions 250 lb or less at joint(s) 2, 39, 40, 41, 42, 43, 44, 45, 46,
 - 47, 48, 37, 36, 35, 34, 33, 32, 31, 30, 29, 28, 26 except 38=256(LC 13)
- FORCES. (lb) Max. Comp./Max. Ten. All forces 250 (lb) or less except when shown.
- TOP CHORD
 2-3=-446/137, 3-4=-332/131, 4-5=-261/151, 9-10=-93/285, 10-11=-119/324, 11-12=-146/374, 12-13=-176/459, 13-14=-190/506, 14-15=-190/506, 15-16=-176/459, 16-17=-146/374, 17-18=-119/296, 25-26=-314/102
- BOT CHORD 2-48=-89/297, 47-48=-89/297, 46-47=-89/297, 45-46=-89/297, 44-45=-89/297, 43-44=-89/297, 42-43=-89/297, 41-42=-89/297, 40-41=-89/297, 39-40=-89/297, 38-39=-89/297, 37-38=-89/297, 36-37=-89/297, 35-36=-89/297, 34-35=-89/297, 33-34=-89/297, 32-33=-89/297, 31-32=-89/297, 30-31=-89/297, 29-30=-89/297, 28-29=-89/297, 26-28=-89/297 WEBS 14-38=-258/51

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide Contributed by the bottom chord and any other members.

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818 Soundside Road

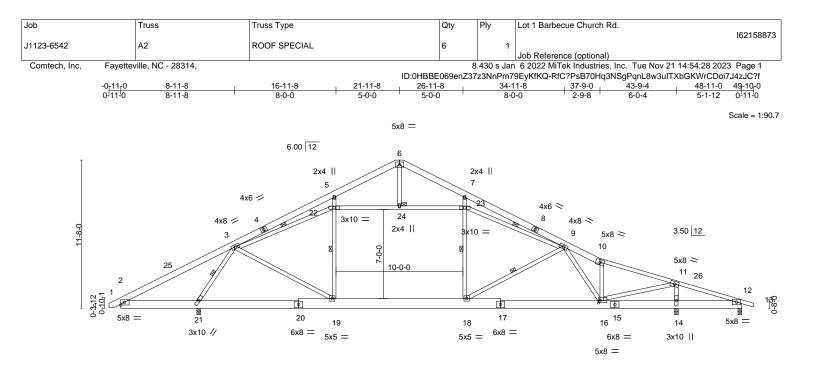
| Job | Truss | Truss Type | Qty | Ply | Lot 1 Barbecue Church Rd. |
|------------------------|--------------------|----------------------|----------|---------|---|
| J1123-6542 | A1GE | COMMON SUPPORTED GAB | 2 | 1 | 162158872 |
| J1123-0342 | AIGE | COMMON SUPPORTED GAB | 2 | 1 | Job Reference (optional) |
| Comtech, Inc, Fayettev | rille, NC - 28314, | | 8 | | 6 2022 MiTek Industries, Inc. Tue Nov 21 14:54:27 2023 Page 2 |
| | | ID:0HBBE | 069enZ37 | z3NnPm7 | 9EyKfKQ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f |

NOTES-

9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 39, 37 except (jt=lb) 40=122, 41=109, 42=107, 43=107, 44=108, 45=108, 45=108, 47=108, 48=182, 36=126, 35=110, 34=107, 33=107, 32=108, 31=108, 30=108, 29=107, 28=164.
10) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCEL Building Component Schut Information, purplication for the trust Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)





| | 6-1-12 16-11 6-1-12 10-9- | | <u>26-11-8</u> 10-0-0 | | 7-9-0 0-9-8 | 43-9-4 | 48-11-0 5-1-12 |
|--|--|---|---|---|--|---|------------------------------------|
| Plate Offsets (X,Y) | [16:0-1-8,0-2-0] | 2 | 10-0-0 | | 5-5-0 | 0-0-4 | 5-1-12 |
| LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0 | SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2015/TPI2014 | CSI. TC 0.65 BC 0.56 WB 0.75 Matrix-S | DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL) | -0.27 16-18 >9 -0.50 16-18 >9 0.02 14 | lefl L/d 199 360 103 240 n/a n/a 199 240 | PLATES MT20 Weight: 408 lb | GRIP 244/190 FT = 20% |
| 10-13 BOT CHORD 2x8 S 17-20 | P No.1 *Except* : 2x4 SP No.1 P No.1 *Except* : 2x10 SP No.1 P No.2 | 1 | BRACING- TOP CHOR BOT CHOR WEBS JOINTS | D Structural v | g directly applied | irectly applied or 4-9-2 (or 6-0-0 oc bracing. 3-21, 5-19, 7-18, 9-18, 3 | · |
| Max I Max I | ze) 21=0-3-8, 12=0-3-8, 14=0-3-8 Horz 21=-197(LC 10) Uplift 21=-385(LC 12), 12=-540(LC 20), Grav 21=1995(LC 2), 12=167(LC 13), 14 | | | | | | |
| TOP CHORD 2-3= | Comp./Max. Ten All forces 250 (lb) c 505/776, 3-5=-471/118, 5-6=-430/283,)=-1570/642, 10-11=-1523/553, 11-12=- | 6-7=-379/273, 7-9=-490/1 | | | | | |
| BOT CHORD 2-21 | =-570/581, 19-21=-200/791, 18-19=-31 | | , 14-16=-1713/780, | | | | |
| WEBS 3-21 7-23 | 4=-1713/780 =-2235/1089, 3-19=-253/1123, 19-22=- \$-296/357, 22-24=-1343/604, 23-24=-1 \$=-515/234, 3-22=-1392/625, 9-23=-139 | 343/604, 10-16=-402/212, | | 4, | | | |
| , | re loads have been considered for this d Vult=150mph Vasd=119mph: TCDL=6.0 | 0 | : Cat. II: Exp.C: En | closed: MWFRS (e | nvelope) | | |

2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-10 to 4-2-2, Interior(1) 4-2-2 to 21-11-8, Exterior(2) 21-11-8 to 27-1-4, Interior(1) 27-1-4 to 49-10-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

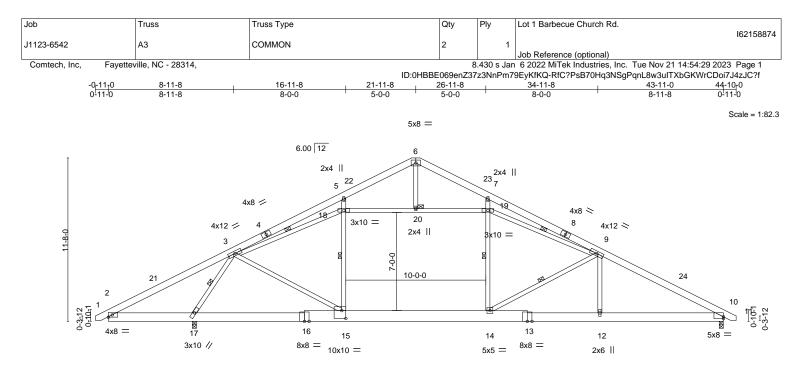
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 21=385, 12=540, 14=603.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)



| ⊢ | 6-1-12 16-11 | | 26-11-8 | 34-11- | | 43-11-0 | |
|---|---|-----------|---|---------------------|-----|----------------|----------|
| | 6-1-12 10-9- | 12 ' | 10-0-0 | 8-0-0 | I | 8-11-8 | |
| Plate Offsets (X,Y) | [10:0-0-0,0-1-9], [15:0-3-8,0-6-12] | | | | | | |
| LOADING (psf) | SPACING- 2-0-0 | CSI. | DEFL. i | n (loc) l/defl | L/d | PLATES | GRIP |
| FCLL 20.0 | Plate Grip DOL 1.15 | TC 0.36 | Vert(LL) -0.29 | 9 12-14 >999 | 360 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.71 | Vert(CT) -0.52 | 2 12-14 >879 | 240 | | |
| BCLL 0.0 * | Rep Stress Incr YES | WB 0.72 | Horz(CT) 0.04 | 4 10 n/a | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | Matrix-S | Wind(LL) 0.3 | 1 12-14 >999 | 240 | Weight: 376 lb | FT = 20% |
| BOT CHORD 2x8 SP No.1 *Except* 13-16: 2x10 SP No.1 WEBS 2x4 SP No.2 | | BOT CHORD | Rigid ceiling directly applied or 10-0-0 oc bracing, Except:6-0-0 oc bracing: 2-17.1 Row at midpt3-17, 5-15, 7-14, 9-14, 3-18, 9-19 | | | | |
| | te) 17=0-3-8, 10=0-3-8 Horz 17=197(LC 11) Jplift 17=-383(LC 12), 10=-303(LC 13) | | JOINTS | 1 Brace at Jt(s): 2 | 20 | | |

 TOP CHORD
 2-3=-834/801, 3-5=-489/121, 5-6=-448/294, 6-7=-387/272, 7-9=-517/136, 9-10=-2715/901

 BOT CHORD
 2-17=-593/866, 15-17=-197/906, 14-15=-263/1823, 12-14=-620/2301, 10-12=-621/2309

WEBS 3-17=-2389/1351, 3-15=-412/1275, 15-18=-74/308, 5-18=-437/390, 14-19=0/422, 7-19=-254/298, 9-14=-883/454, 9-12=-47/483, 18-20=-1493/560, 19-20=-1493/560, 3-18=-1548/579, 9-19=-1556/583

NOTES-

1) Unbalanced roof live loads have been considered for this design.

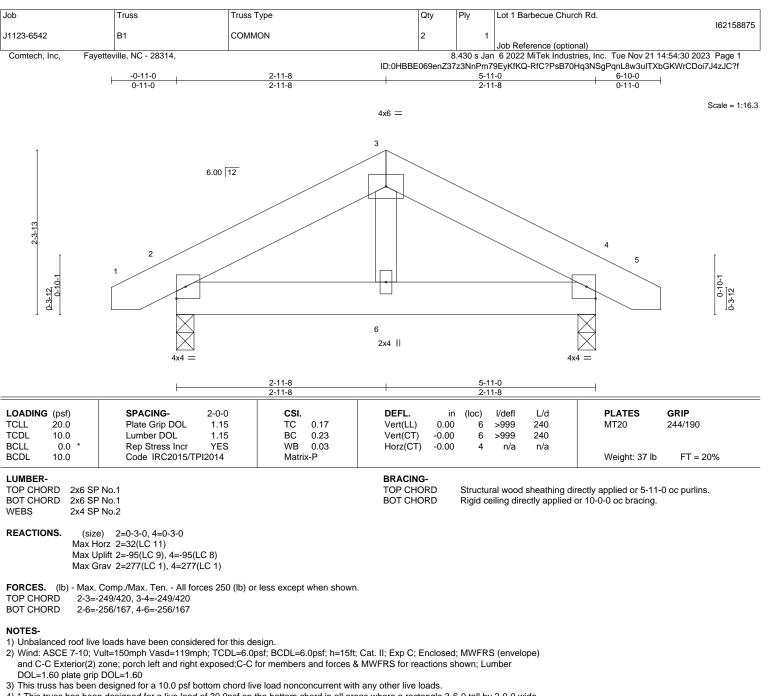
2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 21-11-8, Exterior(2) 21-11-8 to 26-4-5, Interior(1) 26-4-5 to 44-7-10 zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 17=383, 10=303.



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4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.



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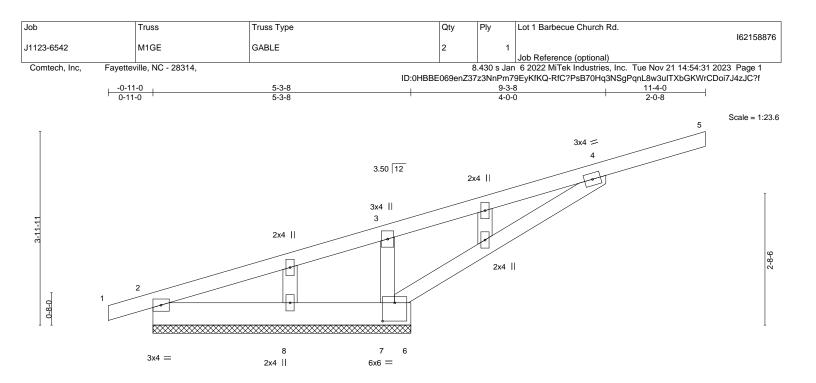


Plate Offsets (X,Y)-- [2:0-0-1,0-0-0], [7:0-3-0,0-4-8]

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| LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0 | SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2015/TPI2014 | CSI. TC 0.33 BC 0.09 WB 0.41 Matrix-P | DEFL. ir Vert(LL) -0.05 Vert(CT) -0.03 Horz(CT) 0.00 | 5 4-5 n/r 120 3 4-5 n/r 120 | PLATES GRIP MT20 244/190 Weight: 43 lb FT = 20% |
|---|---|--|--|--|---|
| LUMBER- TOP CHORD 2x4 SP No.1 BOT CHORD 2x6 SP No.1 WEBS 2x4 SP No.2 OTHERS 2x4 SP No.2 | | BRACING- TOP CHORD BOT CHORD | Structural wood sheathing except end verticals. Rigid ceiling directly appli | g directly applied or 4-11-7 oc purlins, ied or 6-0-0 oc bracing. | |

REACTIONS. (size) 7=5-3-8, 2=5-3-8, 8=5-3-8 Max Horz 2=217(LC 12) Max Uplift 7=-694(LC 12), 2=-38(LC 1) Max Grav 7=819(LC 1), 2=165(LC 9), 8=120(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-1486/767, 3-4=-1304/735, 3-7=-352/538

BOT CHORD 2-8=-671/1116, 7-8=-671/1116

WEBS 4-7=-808/1345

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

Gable requires continuous bottom chord bearing.

5) Gable studs spaced at 2-0-0 oc.

6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 7=694.

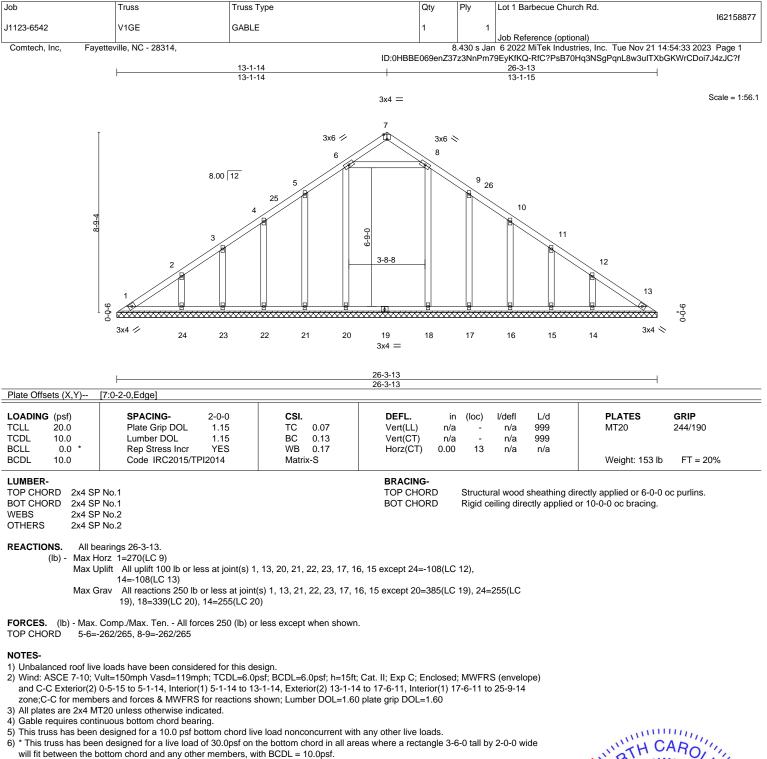
9) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.



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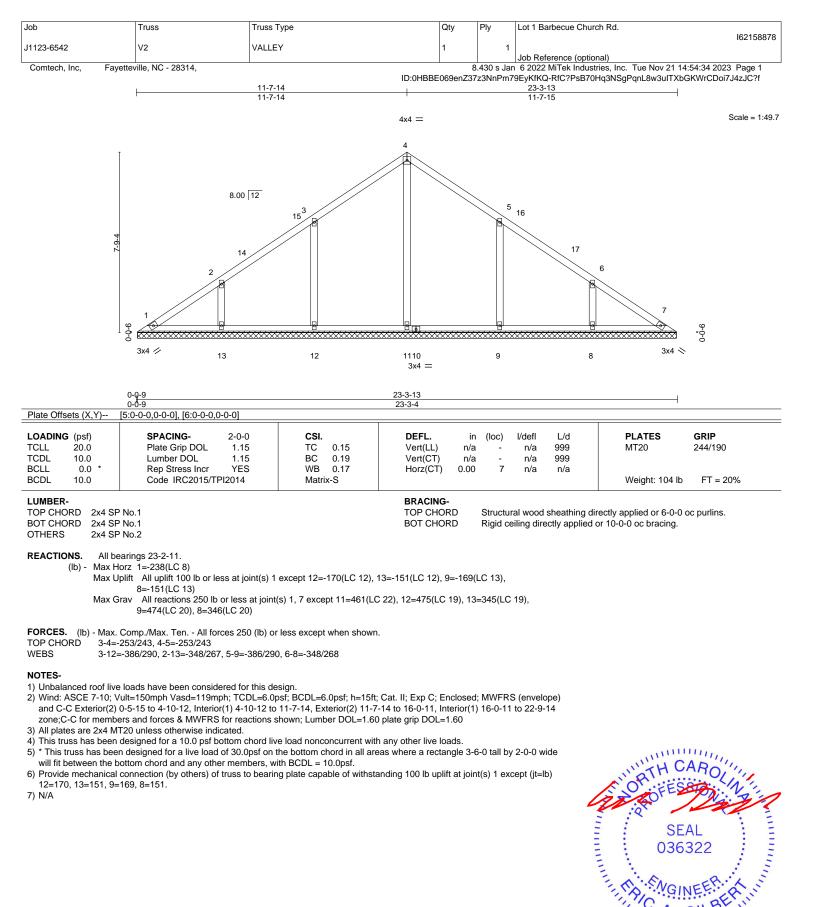
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7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 13, 20, 21, 22, 23, 17, 16, 15 except (jt=lb) 24=108, 14=108.



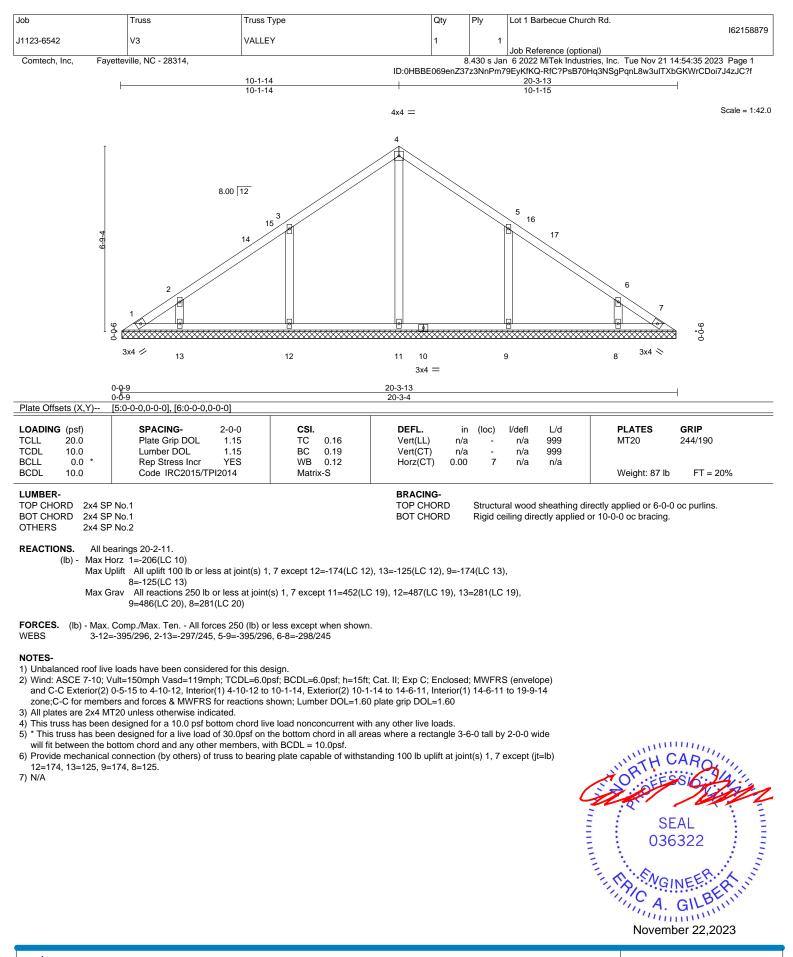
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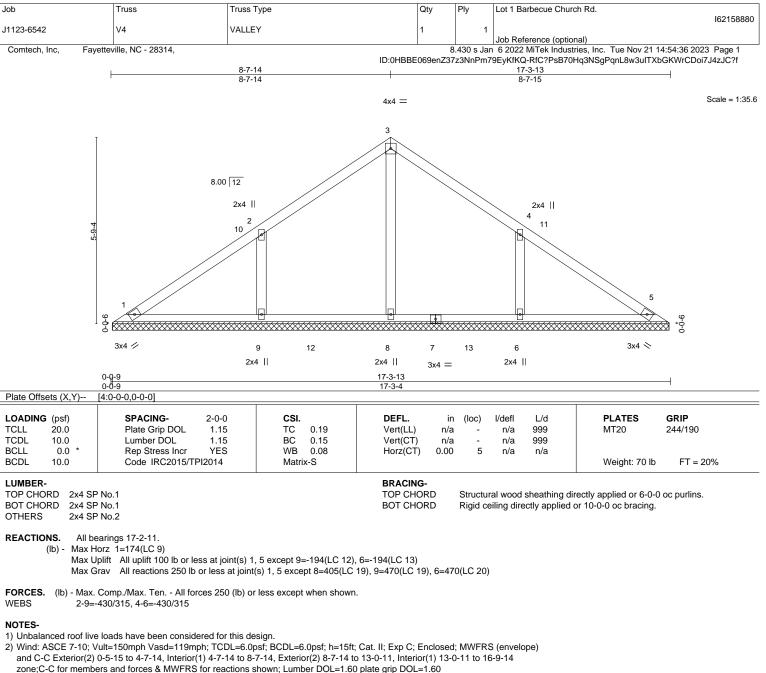
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November 22,2023



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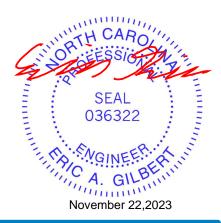


zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

() * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 9=194, 6=194.

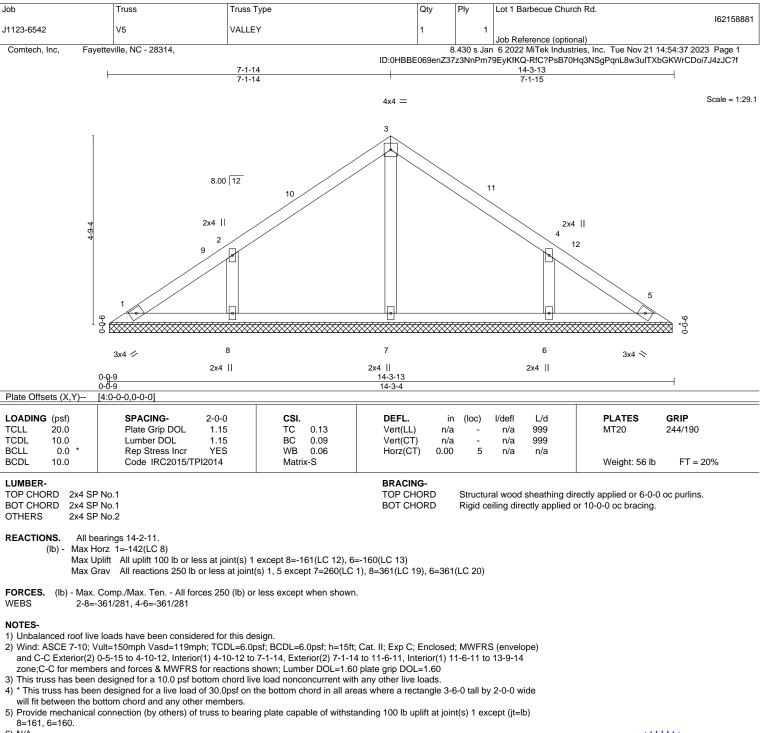
6) N/A



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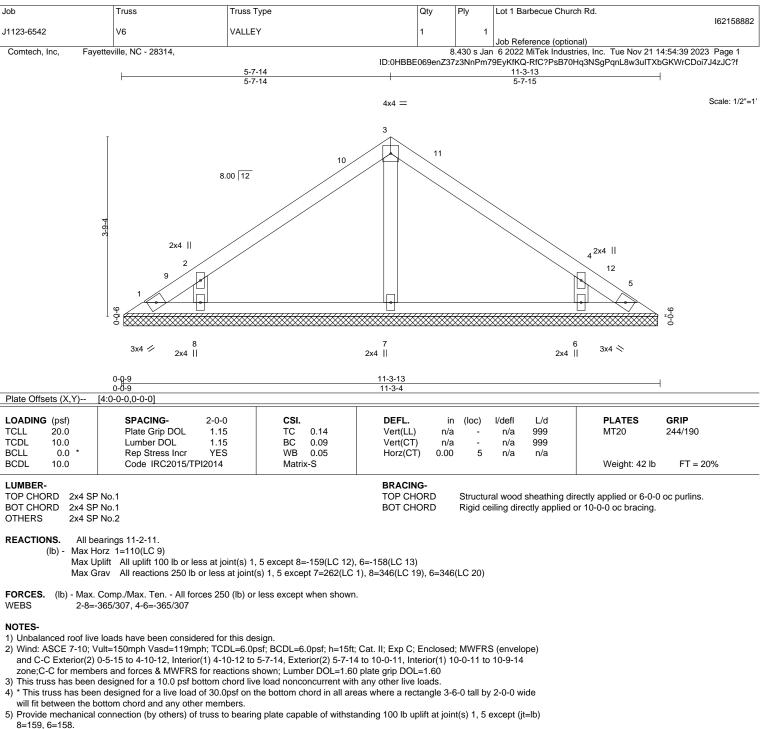


6) N/A



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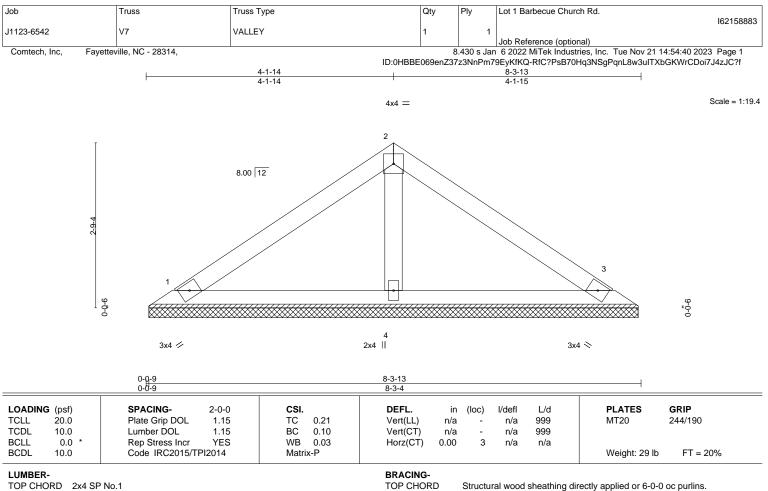
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6) N/A



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BOT CHORD

Rigid ceiling directly applied or 10-0-0 oc bracing.

TOP CHORD 2x4 SP No.1 BOT CHORD 2x4 SP No.1

OTHERS 2x4 SP No.2

REACTIONS. 1=8-2-11, 3=8-2-11, 4=8-2-11 (size) Max Horz 1=-78(LC 8) Max Uplift 1=-48(LC 12), 3=-55(LC 13), 4=-4(LC 12) Max Grav 1=159(LC 1), 3=162(LC 20), 4=268(LC 1)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown.

NOTES-

1) Unbalanced roof live loads have been considered for this design.

2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope)

and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

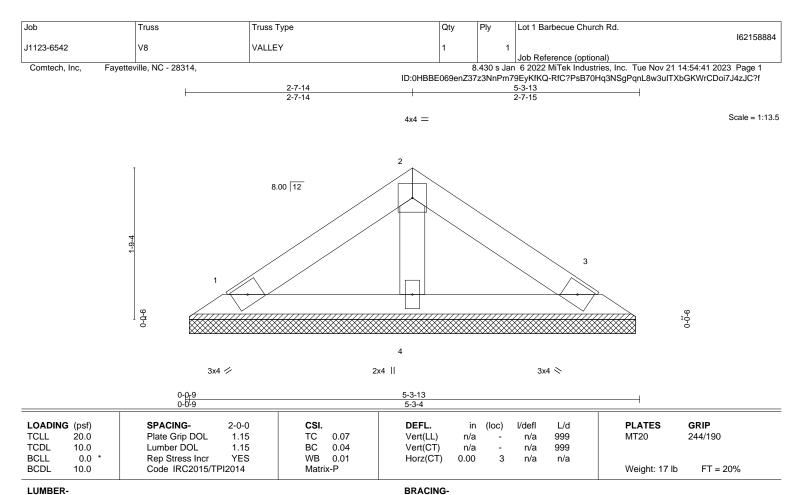
4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4. 6) N/A



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TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.1 BOT CHORD

2x4 SP No.1 2x4 SP No.2

OTHERS

REACTIONS. 1=5-2-11, 3=5-2-11, 4=5-2-11 (size) Max Horz 1=-46(LC 8) Max Uplift 1=-28(LC 12), 3=-33(LC 13), 4=-3(LC 12) Max Grav 1=94(LC 1), 3=96(LC 20), 4=158(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

1) Unbalanced roof live loads have been considered for this design.

2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope)

and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4. 6) N/A



Structural wood sheathing directly applied or 5-3-13 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

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