| | LIVE LOAD | DEAD LOAD |
|---------------------------|-----------|-----------|
| TABLE R301.4 | (PSF) | (PSF) |
| DWELLING UNITS | 40 | 10 |
| SLEEPING ROOMS | 30 | 10 |
| ATTICS WITH STORAGE | 20 | 10 |
| ATTICS WITHOUT STORAGE | 10 | 10 |
| ROOF SNOW | 20 | 10 |
| STAIRS | 40 | 10 |
| DECKS | 40 | 10 |
| EXTERIOR BALCONIES | 60 | 10 |
| PASSENGER VEHICLE GARAGES | 50 | - |
| FIRE ESCAPES | 40 | 10 |
| GUARDRAILS AND HANDRAILS | 200 | - |

MATERIALS

1. FRAMING LUMBER SHALL BE #2 SPRUCE PINE FIR (SPF) WITH THE FOLLOWING DESIGN PROPERTIES: Fb = 875 PSI Fv = 70 PSI E = 1.4E6 PSI

2. FRAMING LUMBER EXPOSED TO WEATHER OR IN CONTACT WITH THE GROUND, CONCRETE OR MASONRY SHALL BE #2 SOUTHERN YELLOW PINE (SYP) TREATED IN ACCORDANCE WITH AWPA C22 WITH THE FOLLOWING DESIGN PROPERTIES: Fb = 1050 PSI Fv = 35 PSI E = 1.666 PSI

3. ENGINEERED WOOD BEAMS SHALL BE LAMINATED VENEER LUMBER (LVL) OR PARALLEL STRAND LUMBER (PSL) WITH THE FOLLOWING MINIMUM DESIGN PROPERTIES: Eb = 2900 PSI Ev = 285 PSI E = 1.9E6 PSI

4. STRUCTURAL STEEL SHALL CONFORM TO ASTM A-36 MINIMUM GRADE.

5. BOLTS SHALL CONFORM TO A307 MINIMUM GRADE.

6. REBAR SHALL BE DEFORMED STEEL CONFORMING TO ASTM A615 GRADE 60.

7. POLIRED CONCRETE SHALL HAVE A MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF 3000 PSLAT 28 DAYS. MATERIALS USED TO PRODUCE CONCRETE SHALL COMPLY WITH THE APPLICABLE STANDARDS LISTED IN ACI 318 OR ASTM C 1157.

8. CONCRETE LOCATED PER TABLE R402.2 SHALL BE AIR ENTRAINED WITH THE TOTAL AIR CONTENT NOT LESS THAN 5 PERCENT OR MORE THAN 7 PERCNET.

9. MASONRY UNITS SHALL CONFORM TO ACI 530/ASCE 5/TMS 402 AND MORTAR SHALL COMPLY WITH ASTM C 270.

10 ALLOWARI E SOIL BEARING PRESSURE 2000 PSE

GENERAL

ENGINEER'S SEAL APPLIES TO STRUCTURAL COMPONENTS ONLY AND DOES NOT CERTIFY ARCHITECTURAL LAYOUT OR DIMENSIONAL ACCURACY. ENGINEER IS NOT RESPONSIBLE FOR CONSTRUCTION METHODS OR ANY DEVIATION FROM THE PLANS.

ALL CONSTRUCTION, WORKMANSHIP, MATERIAL QUALITY AND SELECTION SHALL BE IN ACCORDANCE WITH THE CAROLINA STATE BUILDING CODE - RESIDENTIAL CODE 2012 EDITION (IRC), AND LOCAL CODES AND REGULATIONS. DIMENSIONS SHALL GOVERN OVER SCALE AND CODE SHALL GOVERN OVER VIETO FORMATION OF A RESIDENTIAL CODE 2012 INTERNATIONAL RESIDENTIAL CODE 2012 (IRC), AND LOCAL CODES AND REGULATIONS. DIMENSIONS SHALL GOVERN OVER SCALE AND CODE SHALL GOVERN OVER VIETO FORMATION OF A RESIDENTIAL CODE 2012 INTERNATIONAL RESIDENTIAL RESIDENTIAL RESIDENTIAL RESIDENTIAL RESIDENTIAL RESIDENTI DIMENSIONS

ADDITIONAL LOADS

FIGURE R301.2(4) - BASIC DESIGN WIND SPEED 100 MPH

FIGURE R301.2(2) - SEISMIC DESIGN CATEGORY B

TABLE R301.2(4) - DESIGN POSITIVE AND NEGATIVE PRESSURE FOR DOORS AND WINDOW FOR A MEAN ROOF HEIGHT OF 35 FEET OR LESS SHALL BE 25 PSF

TABLE R301.2(2) - COMPONENT AND CLADDING LOADS FOR A MEAN ROOF HEIGHT OF 30 FEET OR LESS LOCATED IN EXPOSUIRE B

ROOF VALUES BOTH POSITIVE AND NEGATIVE SHALL BE DESIGNED BASED ON ROOF PITCHES AS FOLLOWS: 45 4 PSF FOR 0:12 TO 2:25:12, 34.8 PSF FOR 2:25:12 TO 7:12 AND 21 PSF FOR 7:12 TO 12:12 WALL CLADDING IS DESIGNED FOR A 24.1 PSF POSITIVE AND NEGATIVE PRESSURE

ENERGY COMPLIANCE:

TABLE N1102.1 - REFER TO TABLE N1101.1 TO DETERMINE THE CLIMATE ZONE BY COUNTY AND REFER TO TABLE N1102.1 FOR R VALUE INSULATION REQUIREMENTS LISTED BY ZONE.

TABLE N1102.1 - ZONE 7 - MAX. GLAZING U FACTOR: <u>0.40</u>. MIN. INSULATION R VALUES: CEILING <u>R-30</u>, WALLS <u>R-13</u>, FLOORS <u>R-19</u>, BASEMENT WALLS <u>R-7</u>, SLAB PERIMETER <u>R-0</u>, CRAWL SPACE WALLS <u>R-7</u>.

 $\begin{array}{l} \underline{\textbf{TABLE N1102.1-ZONE 8}} & \text{-Max. Glazing u factor: 0, } \underline{\textbf{40}} & \text{Min. insulation R values: ceiling } \underline{\textbf{R-30}} & \text{walls } \underline{\textbf{R-13}} \\ \hline \textbf{FLOORS } \underline{\textbf{R-19}} & \text{BASEMENT WALLS } \underline{\textbf{R-8}} & \text{SLAB PERIMETER } \underline{\textbf{R-6}} & \text{TFLDEEP} \\ \hline \textbf{CRAWL SPACE WALLS } \underline{\textbf{R-10}} & \text{TFLDEEP} \\ \hline \textbf{R-10} & \text{TFLDEEP} & \text{TFLDEEP} & \text{TFLDEEP} \\ \hline \textbf{R-10} & \text{TFLDEEP} & \text{TFLDEEP} & \text{TFLDEEP} \\ \hline \textbf{R-10} & \text{TFLDEEP} & \text{TFLDEEP} \\ \hline \textbf{R-$

CONSTRUCTION

1. STEEL FLITCH BEAMS SHALL BE FASTENED TOGETHER WITH 12° DIAMETER BOLTS WITH WASHERS PLACED UNDER THE THREADED END OF THE BOLT. BOLTS SHALL BE SPACED AT MAXIMUM 24° o.c. STAGGERED TOP AND BOTTOM OF BEAM WITH A MINIMUM 2° EDGE DISTANCE. TWO BOLTS SHALL BE LOCATED AT 6° FROM EACH END OF FLITCH BEAM.

2. STEEL BEAMS SHALL BE SUPPORTED AT EACH END WITH A MINIMUM BEARING LENGTH OF 3 1/2" AND FULL FLANGE WIDTH. BEAMS MUST BE ANCHORED AT EACH END WITH A MINIMUM OF FOUR 16d NAILS OR TWO 1/2" x 4" LAG SCREWS

3. ENGINEERED WOOD BEAMS SHALL BE INSTALLED WITH ALL CONNECTIONS PER MANUFACTURER'S INSTRUCTIONS.

4. ALL BEAMS SHALL BE CONTINUOUSLY SUPPORTED LATERALLY AND SHALL BEAR FULL WIDTH ON THE SUPPORTING WALLS OR COLUMNS INDICATED WITH A MINIMUM OF THREE STUDS.

5. SOLID BLOCKING SHALL BE PROVIDED AT ALL POINT LOADS TO TRANSFER LOADS THROUGH FLOOR LEVELS. COLUMNS SHALL BE CONTINUOUS TO THE FOUNDATION OR TO OTHER STRUCTURAL FLEMENTS.

6. ENGINEERED WOOD FLOOR SYSTEMS AND ROOF TRUSS SYSTEMS SHALL BE PROVIDED FOR REVIEW AND COORDINATED WITH THE ENGINEER OF RECORD. INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS.

WALL BRACING REQUIREMENTS SHALL BE IN ACCORDANCE WITH SECTION R602.10 OF THE NORTH CAROLINA RESIDENTIAL

8. BRICK LINTELS SHALL BE 3 1/2 x 3 1/2 x 1/4 STEEL ANGLE FOR UP TO 6'0" MAXIMUM SPAN AND 6 x 4 x 5/16 FOR SPANS GREATER THAN 6'0'

9. BRICK LINTELS AT SLOPED AREAS SHALL BE 4 x 3 1/2 x 1/4 STEEL ANGLE WITH 16d NAILS IN 3/16" HOLES IN 4" ANGLE LEG AT 12" o.c. TO DOUBLE RAFTER. WHEN THE SLOPE EXCEEDS 4:12 A MINIMUM OF 3 x 3 x 1/4 PLATES SHALL BE WELDED AT 24" o.c. ALONG THE STEEL ANGLE.

Lot 63 Prince Place

| SQUARE FOOTAGE | | | | | |
|----------------|-------------|---------------|--|--|--|
| | HEATED S.F. | UNHEATED S.F. | | | |
| FIRST FLOOR | 1947 | | | | |
| SECOND FLOOR | 847 | | | | |
| SCREENED PORCH | | 196 | | | |
| FRONT PORCH | | 132 | | | |
| GARAGE | | 718 | | | |
| | | | | | |
| TOTAL | 2794 | 1046 | | | |
| | | | | | |

| REVISION LOG | | | | | | |
|--------------|-------------|-------------|------|-----------------|----------------------|-------------------------|
| Rev | Description | Drawn By | Date | Sheets Affected | Brochure Required | Engineering Required |
| 1 | | | | | | |
| 2 | | | | | | |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | | | |
| 6 | | | | | | |
| 7 | | | | | | |
| 8 | | | | | | |
| 9 | | | | | | |
| 10 | | | | | | |
| 11 | | | | | | |
| 12 | | | | | | |
| 13 | | | | | | |
| 14 | | | | | | |

| CONC | CONCRETE |
|-------|-------------------------|
| CONT | CONTINUOUS |
| DBL | DOUBLE |
| DJ | DOUBLE JOIST |
| DSP | DOUBLE STUD POCKET |
| EA | EACH |
| FL PT | FLAT PLATE |
| FTG | FOOTING |
| HGR | HANGER |
| LVL | LAMINATED VENEER LUMBER |
| NTS | NOT TO SCALE |
| OC | ON CENTER |
| PSL | PARALLEL STRAND LUMBER |
| PT | PRESSURE TREATED |
| SC | STUD COLUMN |
| SP | STUD POCKET |
| TJ | TRIPLE JOIST |
| TYP | TYPICAL |
| UNO | UNLESS NOTED OTHERWISE |

TABLE N1102.1 CLIMATE ZONES 3-5

| | CLIMATE Zomes | FENESTRATION U-FACTOR b | skylight ^b U-factor | GLAZED FENESTRATION SHGC b,0 | ceiling ^k R-Value | WOOD Framed Wall R-Value | MASS Wall R-Value i | Floor R-Value | BASEMENT © Wall R-Value | SLAB ^d R-VALUE AND DEPTH | CRAWL SPACE C Wall R-VALUE |
|-----|------------------|----------------------------|-----------------------------------|------------------------------------|---------------------------------|--------------------------------------|---------------------------|------------------|-------------------------------|---|----------------------------------|
| | 3 | 0.35 | 0.65 | 0.30 | 30 | 13 | 5/10 | 19 | 10/13 | 0 | 5/13 |
| | 4 | 0.35 | 0.60 | 0.30 | 38 OR 30 CONT j | 15 OR 13+2.5 ^h | 5/10 | 19 | 10/13 | 10 ^d | 10/13 |
| | 5 | 0.35 | 0.60 | NR | 38 OR 30 CONT | 19 OR 13+5 OR 15+3 ^{8,h} | 13/17 | 30 ^g | 10/13 | 10 ^d | 10/13 |
| a R | VALUES ARE N | (INIMUMINS, U-FACTO | ORS AND SHGC | ARE MAXIMUMS. | | | | | | | |

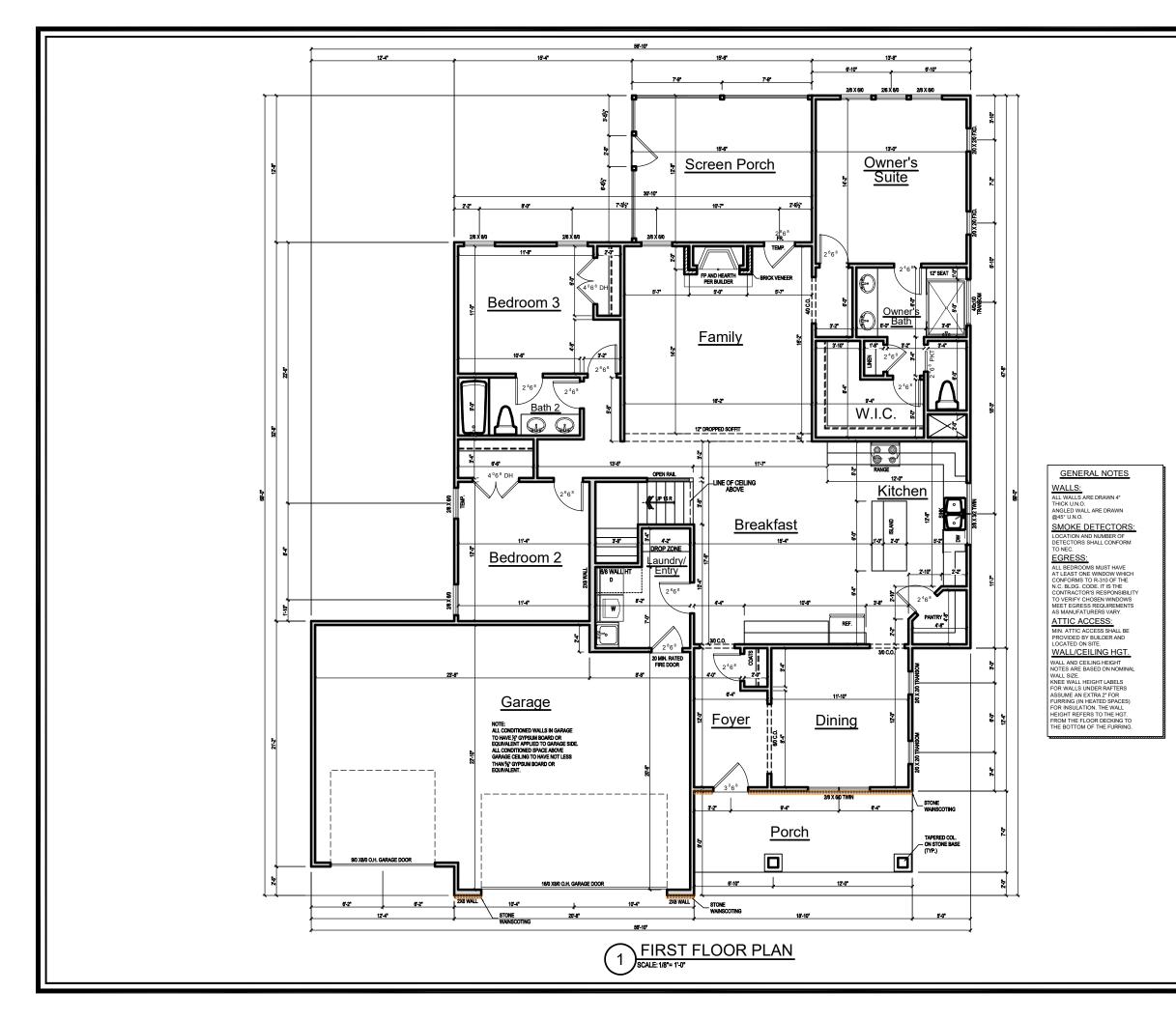
b. THE FENESTRATION UFACTOR COLUMN EXCLUDED SKYLIGHTS. THE SHGC COLUMN APPLIES TO ALL GLAZED FENESTRATION.

C. "10/13" MEANS R-10 CONT. INSULATED SHEATHING ON THE INTERIOR OR EXTERIOR OF THE HOME OR R-13 CAVITY INSULATION AT THE INTERIOR OF THE BASEMENT WALL OR

B. THE TREBUNKTION OF ALL TO COLUME ADDALED AN LODGE AN LODGE AN LODGE AND ADDALED ADDALED ADDALED ADDALED ADDALED ADDALED ADDALED AND ADDALED AND ADDALED AND ADDALED ADDALE

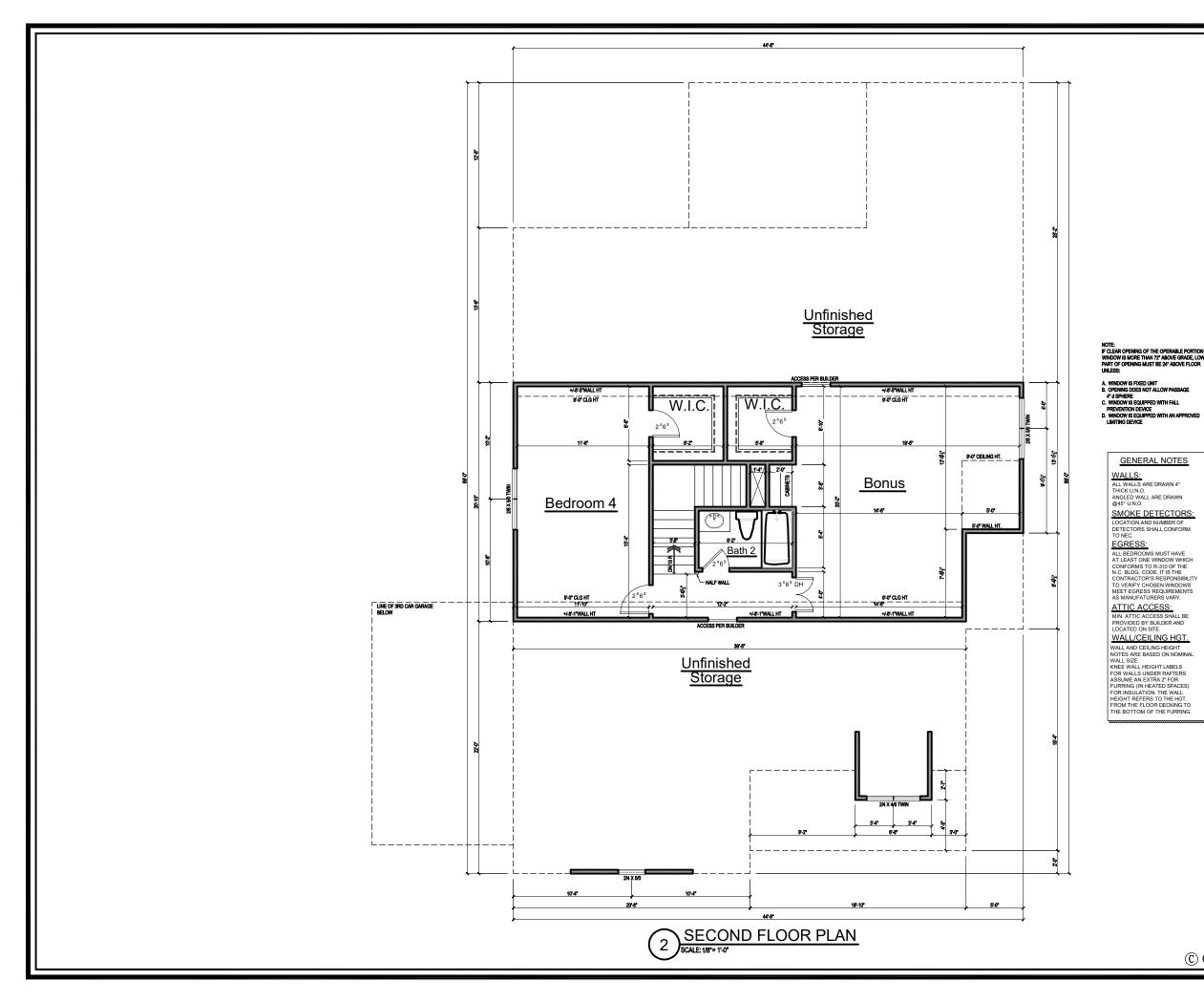
| | | | A | TTIC Y | 1 |
|--------------|--------------------|---------|---------------------|---------------------------------|---|
| | | | | LOT | 6 |
| MAIN I | HOUSE | 1 | SQ FTG | 2731 | |
| VENT TYPE | SQ. REQL RAN | JIRED | SQ. FT. SUPPLIED | PERCENT OF TOTAL SUPPLIED | |
| | | | | | ī |
| RIDGE VENT | 3.64 | 4.55 | 4.50 | 48.65 | |
| SOFFIT VENTS | 5.46 | 4.55 | 4.75 | 51.35 | |
| TOTAL (MIN) | 9.10 | 9.10 | 9.25 | 100.00 | |
| SCHEDULE HAS | BEEN CA | LCULATE | D ASSUMING | EAVE VENTIL | Ā |

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|---|--------------------------|------------------------------|---|
| | | | Drawn By: SDI Checked By: RWB 05-13-2022 Revision No. Revision Date |
| MEAN ROOF HEIGHT 1 STORY = 11'-0" CLADDING POSITIVE & NEGATIVE PRESSUI 1 1/2 STORY = 19'-0" CLADDING POSITIVE & NEGATIVE PRESSUI 2 STORY = 19'-0" | | | This plan is the property of South Designs, Inc. and may not be reproduced to the source of the source of the These drawings are offered to the named client for a conditional use is limited to the lot or property as addication, and only for and location. South Designs, Inc. assumes no lideality for any hone constructed from the source out the conditional prior to construction. Caution must be exercised when making changes to these drawings. If change are made to these drawings, contact South Designs, Inc. |
| ANCHOR 1- 19-0 CLADDING POSITIVE & NEGATIVE PRESSUI ANCHOR BOLTS INSTALL ANCHOR BOLTS, NUTS, AND WASH PER CODE AT ALL EXTERIOR WALL TREATED PLATES AND AT INTERIOR BEARI TREATED PLATES ON SLAB FOUNDATIONS. TO BE A MINIMUM OF 6' O.C WITHIN 12" FROM THE ENDS OF EACH PLAT DESIGN PRESSURES MINIMUM RATING: 25 PSF MI WINDOWS 3500 SERIES LOW E-GLASS WINDOWS | iers Ng Wall . And | | Triple A Homes |
| | | | Title: |
| T 63 PRINCE PLACE | | | |
| AT / NEAR RIDGE | AT / NEAR | EAVE | COVER SHEET |
| TT POT LARGE POT SMALL RIDGE VENT (SQ. FT. EACH) (SQ. FT. FREID) | EAVE VENT C | ONT. VENT (SQ. IN. PERLE) | |
| D 0.4236 0.2778 0.125 | 0.1944 | 0.0625 | Plan No. |
| 65 0 0 36.00 | | | A 1041 A 117- |
| POT VENTS MAY BE REQUIRED IF THERE IS INSUFFICIENT RID | | 76.00 | |
| TILATION AT 50-60% OF TOTAL AND RIDGE AT 40-50% (C) | OF TOTAL REQUIRED | | Sheet No. CS |
| | | | |



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| TILE FIRST FLOOR PLAN |
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| Sheet No. A-1 |

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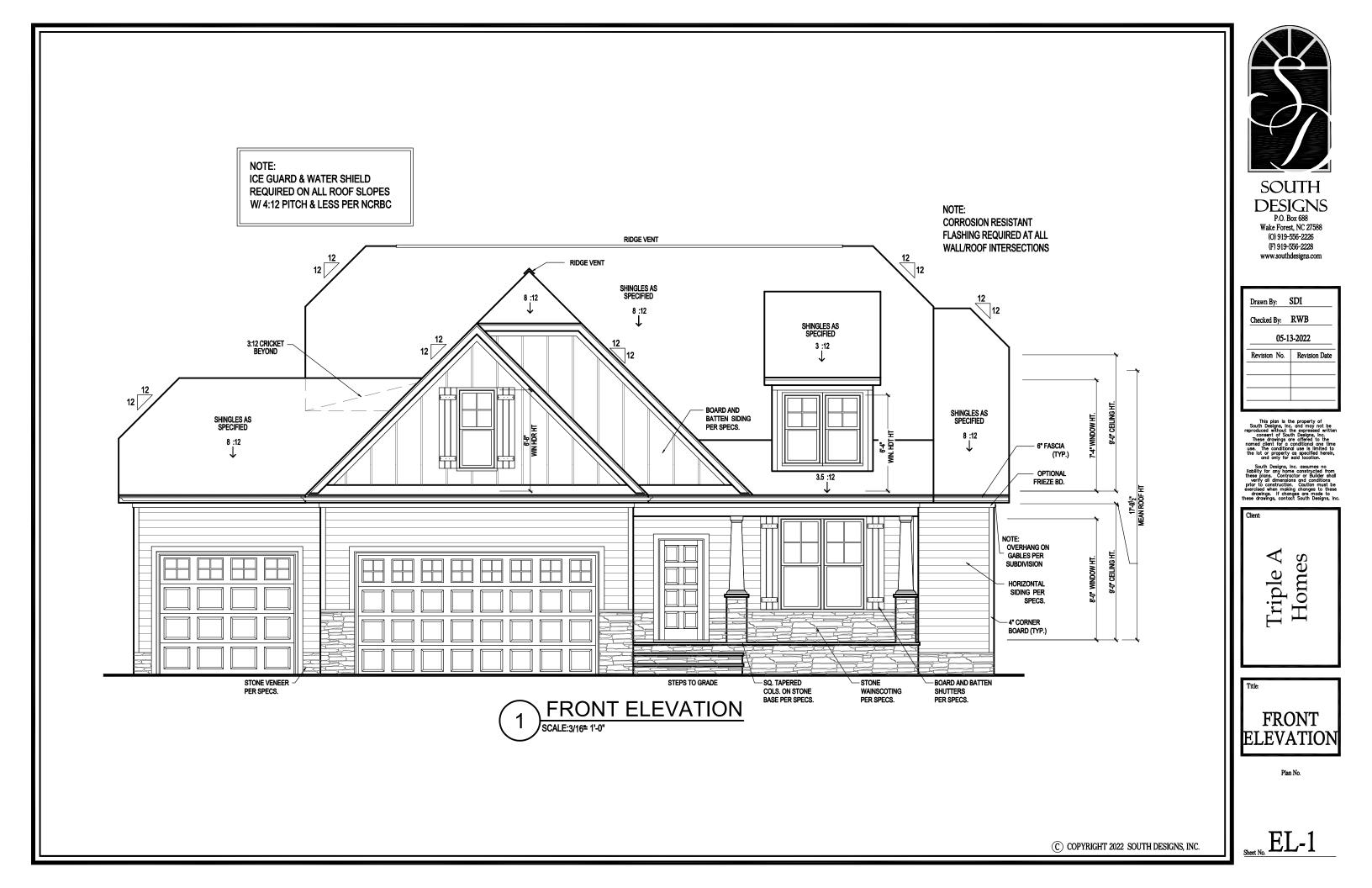
NOTE: IF CLEAR OPENING OF THE OPERABLE PORTION OF A WINDOW IS MORE THAN 72" ABOVE GRADE, LOWEST PART OF OPENING MUST BE 24" ABOVE FLOOR UNLESS:

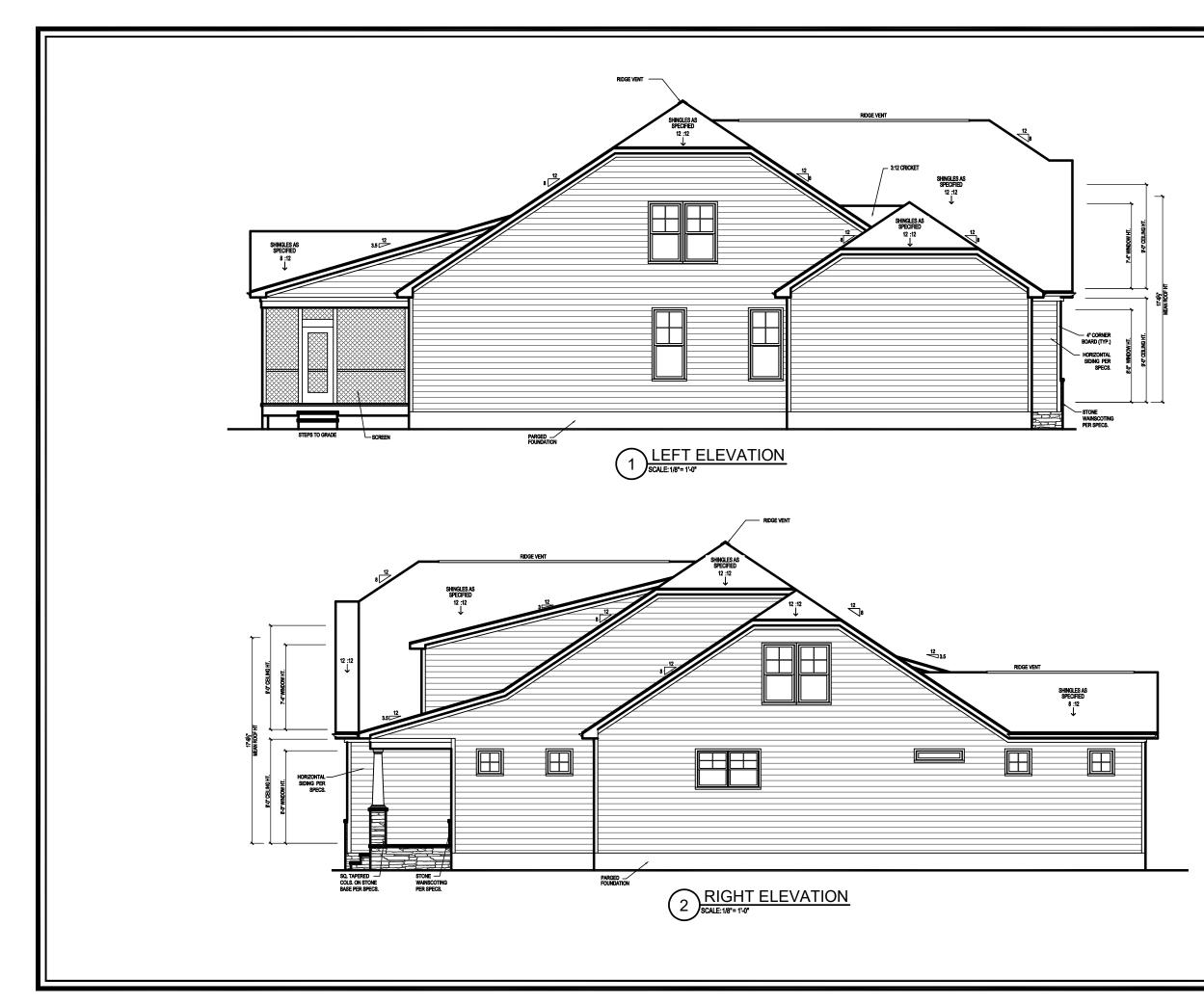
GENERAL NOTES

WALLS: ALL WALLS ARE DRAWN 4" THICK U.N.O. ANGLED WALL ARE DRAWN @45° U.N.O.

| tion of the second seco |
|--|
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| Title: |
| FIRST FLOOR PLAN |
| Plan No. |
| sheet No. A-2 |

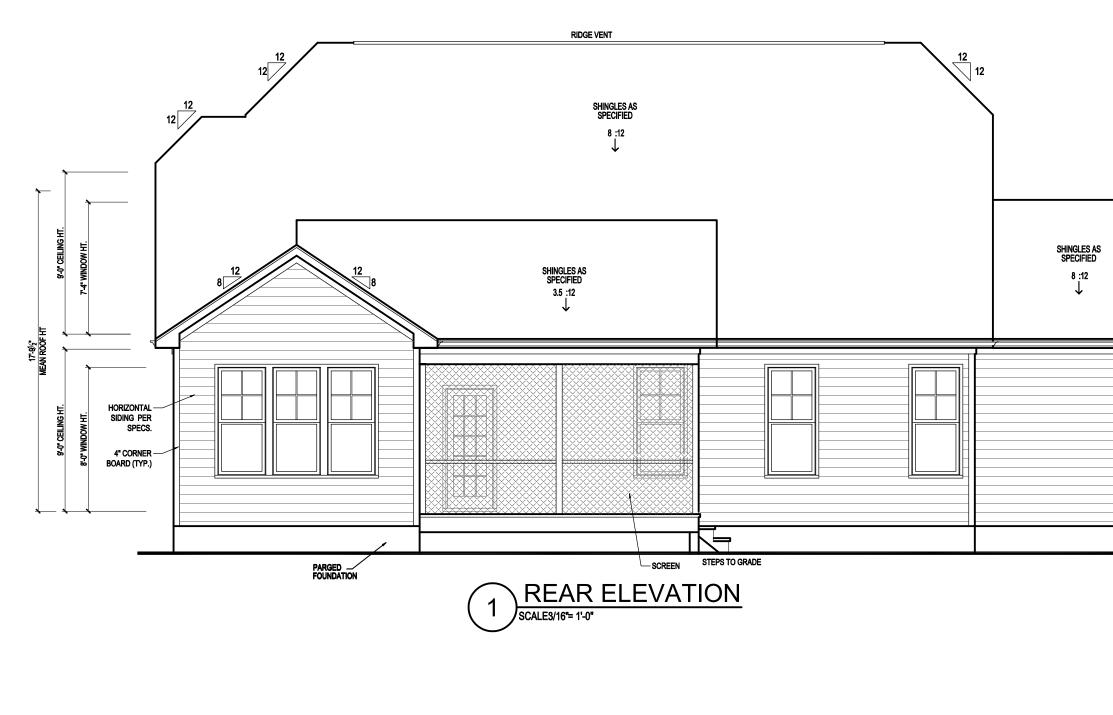
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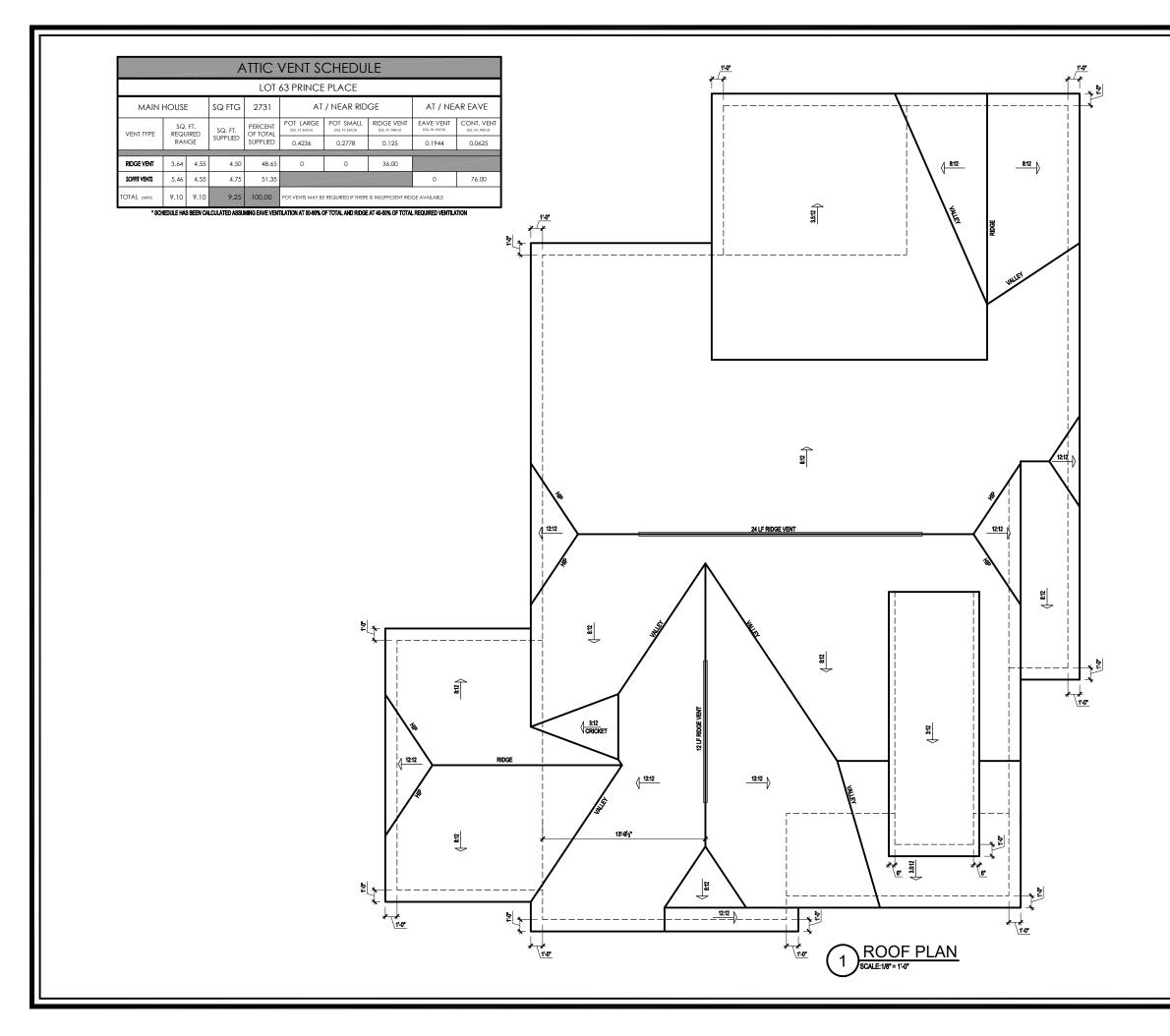


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| Client: |
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| Title |
| LEFT & RIGHT SIDE ELEVATION |
| Plan No. |
| Sheet No. EL-2 |

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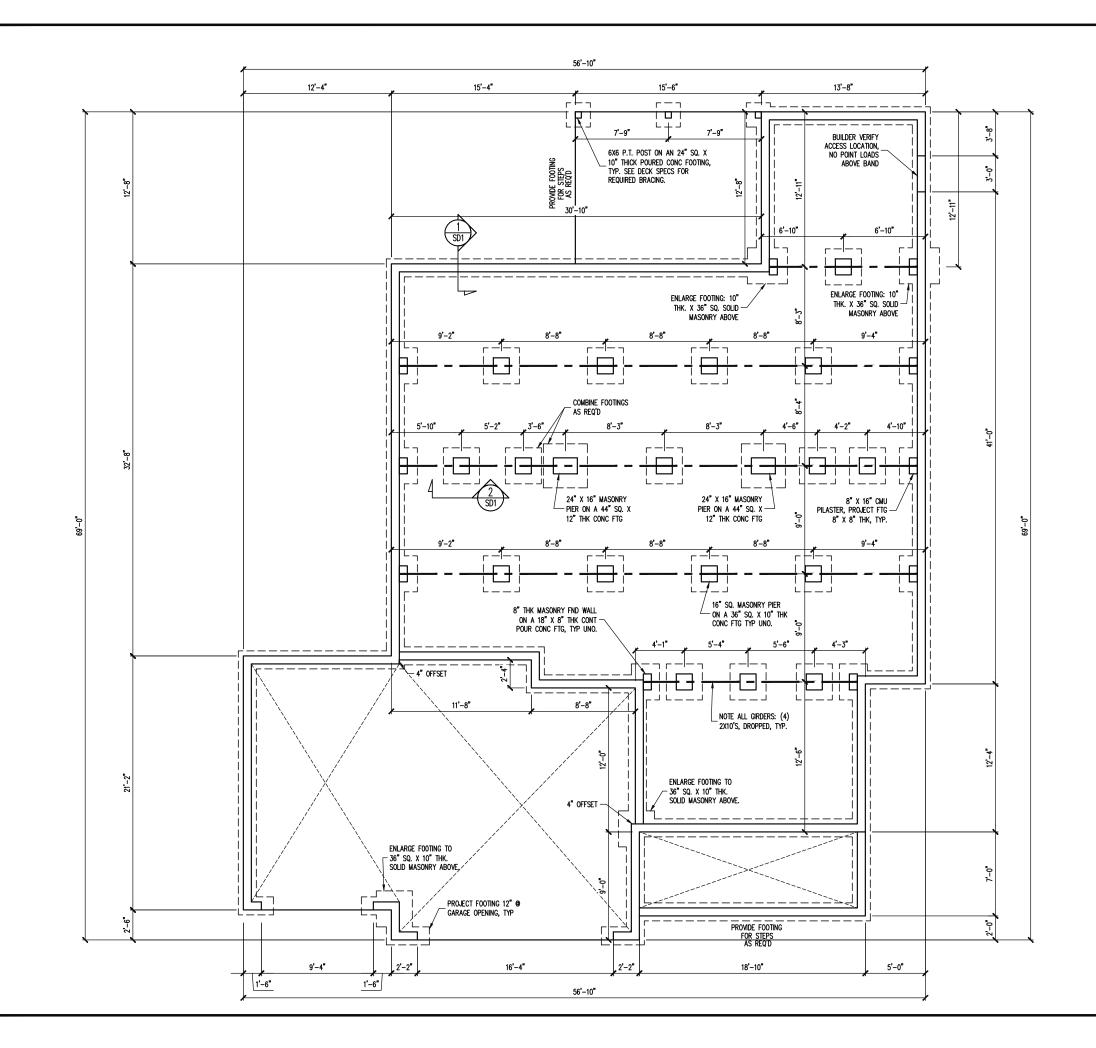


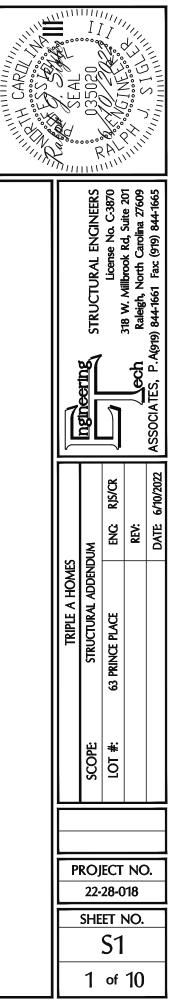
| 12 12 6° FASCIA | Drawn By: SDI Checked By: RWB 05-13-2022 Revision No. Revision Date |
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| | Little drawings, if changes are made to these drawings, contact South Designs, Inc. |
| | THE REAR ELEVATION |
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| Triple A Homes |
| Title: |
| ROOF PLAN |
| Plan No. |
| sheet No. EL-4 |

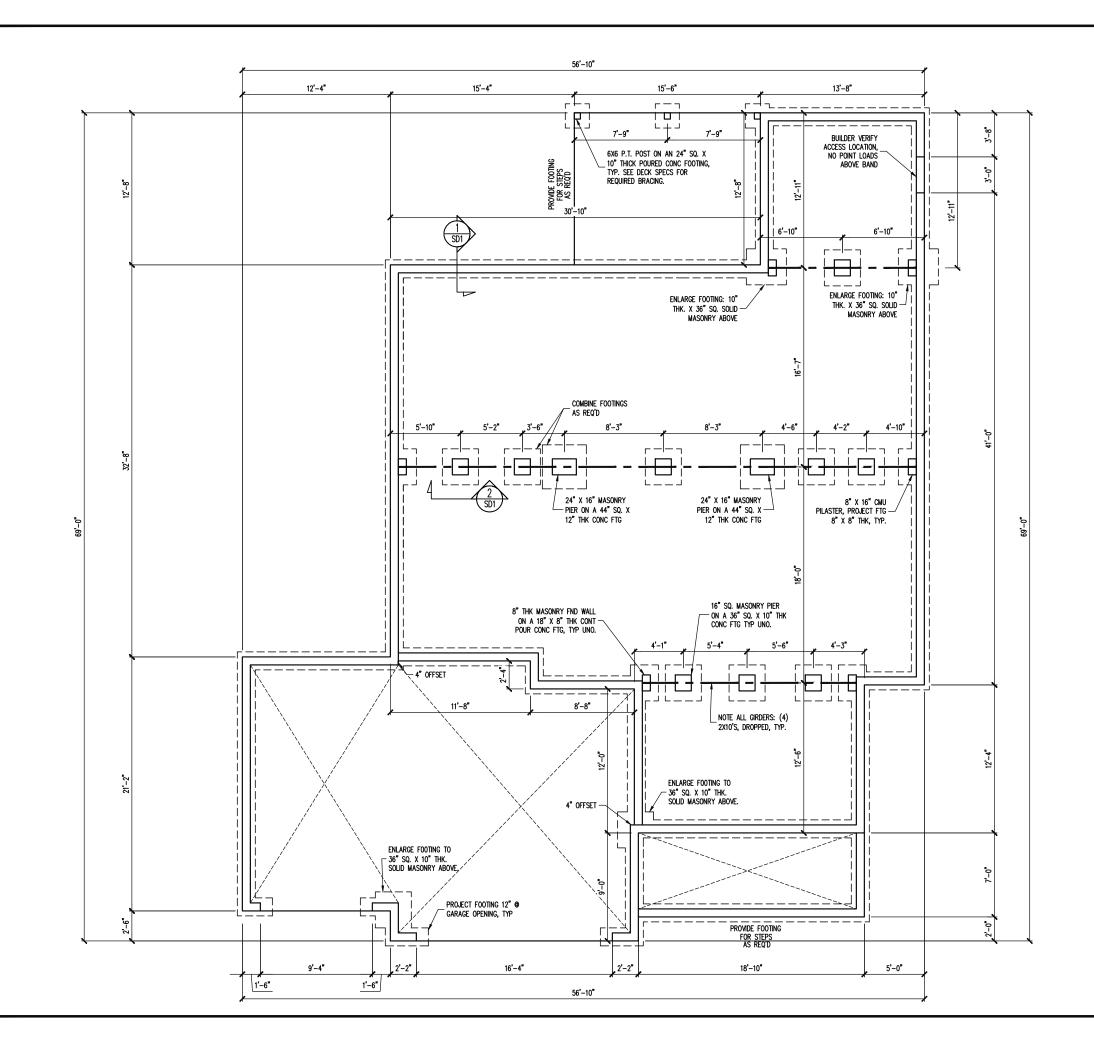
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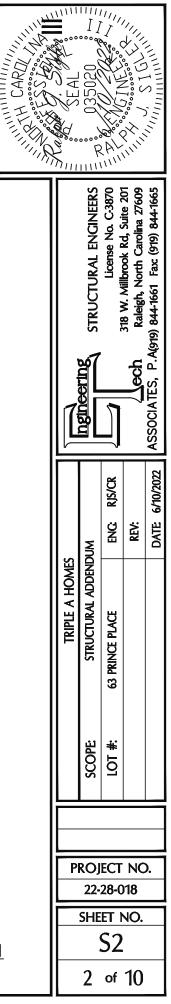




NOTES: -HEIGHT AND BACKFILL LIMITATIONS FOR FOUNDATION WALLS ARE TO BE GOVERNED BY THE NCSEC, LATEST EDITION. REINFORCEMENT AND GROUTING SHALL BE DETERNINED BY FINAL SITE CONDITIONS. -BUILDER TO FIELD LOCATE CRAWLSPACE ACCESS OPENING WITH MINIMUM DIMENSIONS OF 18X24. DO NOT LOCATE ACCESS OPENING BELOW POINT LOADS FROM ABOVE WITHOUT ENGINEER APPROVAL.

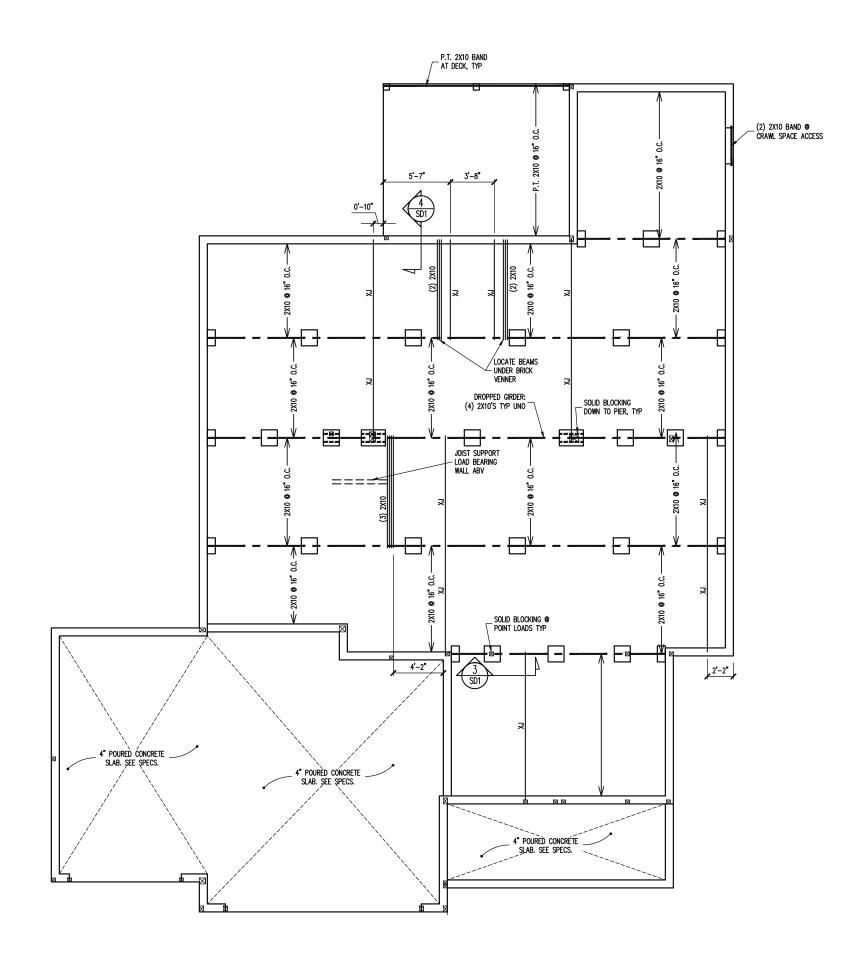
2X10 OPTION FOUNDATION PLAN

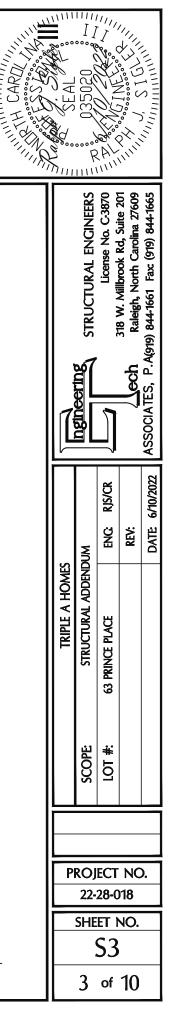




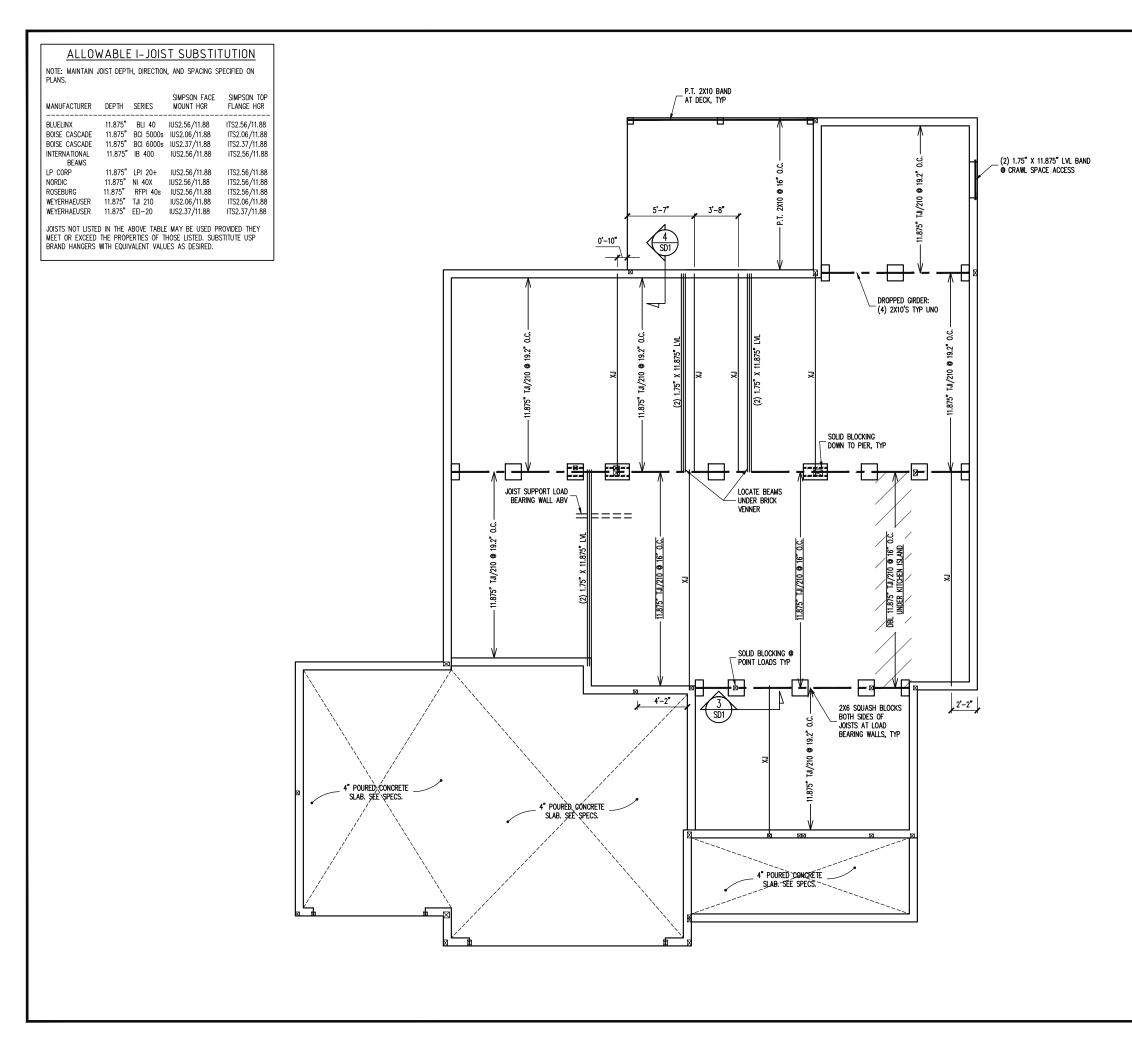
NOTES: -HEIGHT AND BACKFILL LIMITATIONS FOR FOUNDATION WALLS ARE TO BE GOVERNED BY THE NCSEC, LATEST EDITION. REINFORCEMENT AND GROUTING SHALL BE DETERMINED BY FINAL SITE CONDITIONS. -BUILDER TO FIELD LOCATE CRAWLSPACE ACCESS OPENING WITH MINIMUM DIMENSIONS OF 18X24. DO NOT LOCATE ACCESS OPENING BELOW POINT LOADS FROM ABOVE WITHOUT ENGINEER APPROVAL.

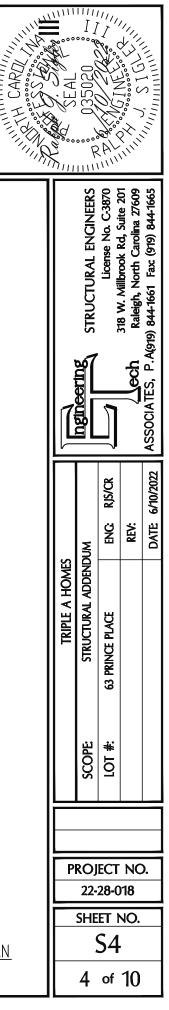
I-JOIST OPTION FOUNDATION PLAN



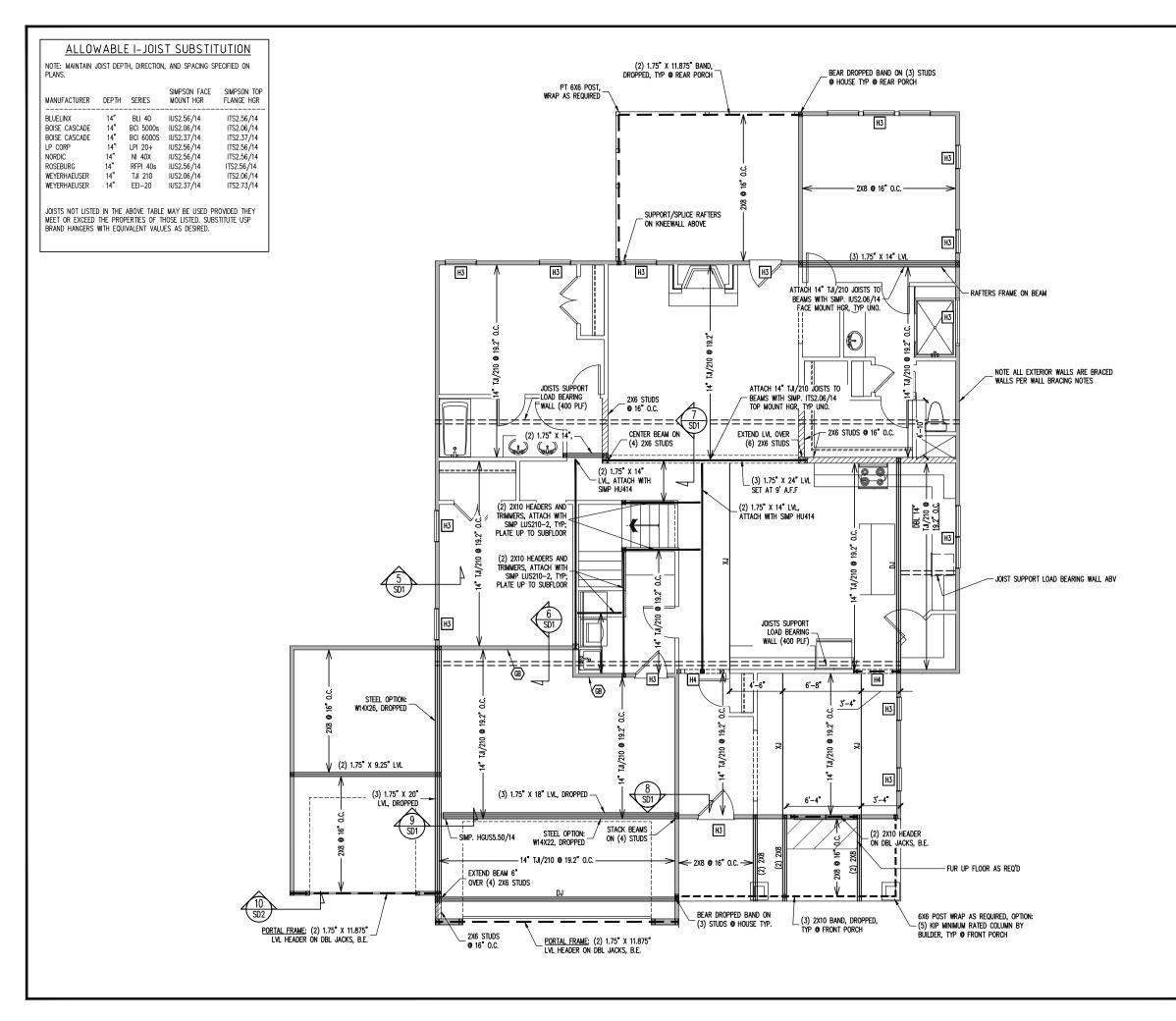


2X10 CRAWL SPACE FRAMING PLAN 1/8" = 1'-0"



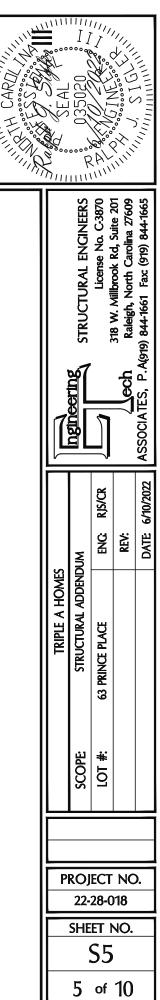


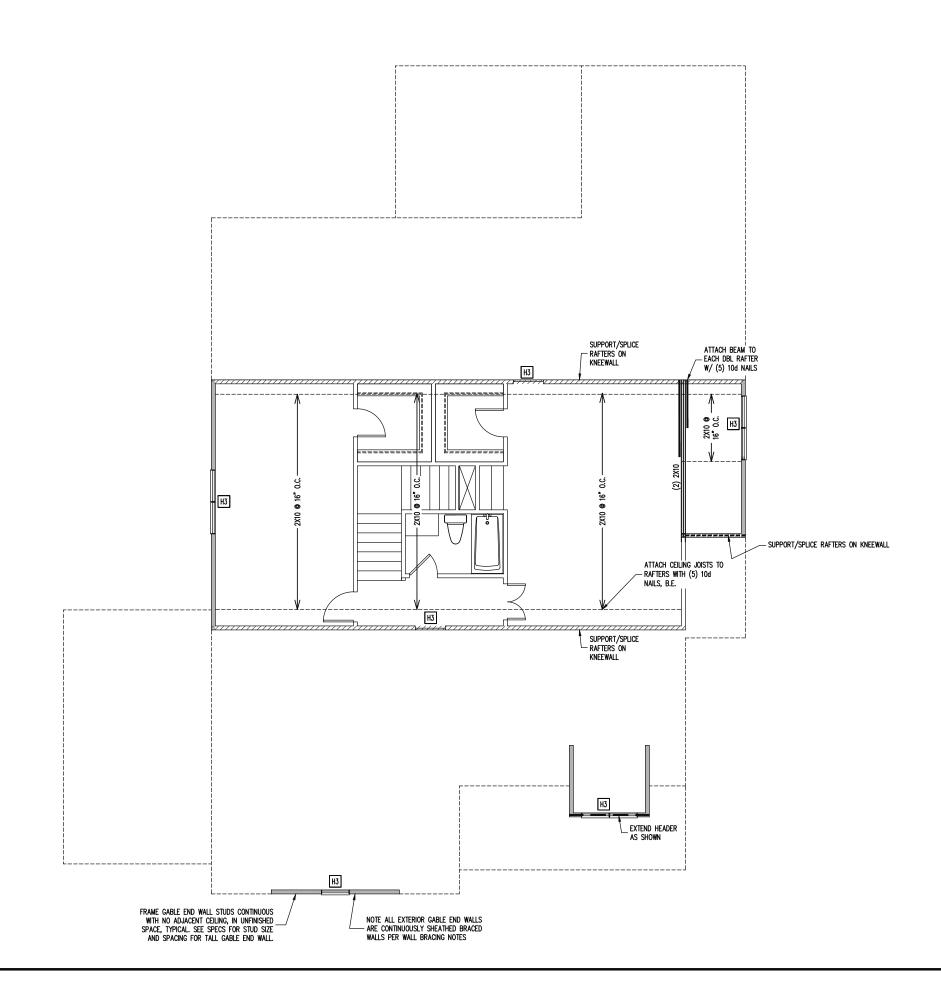
I-JOIST CRAWL SPACE FRAMING PLAN

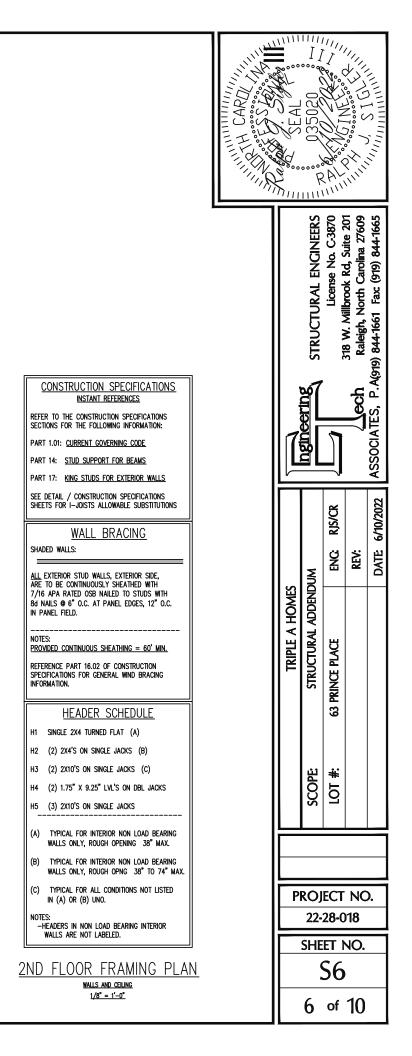


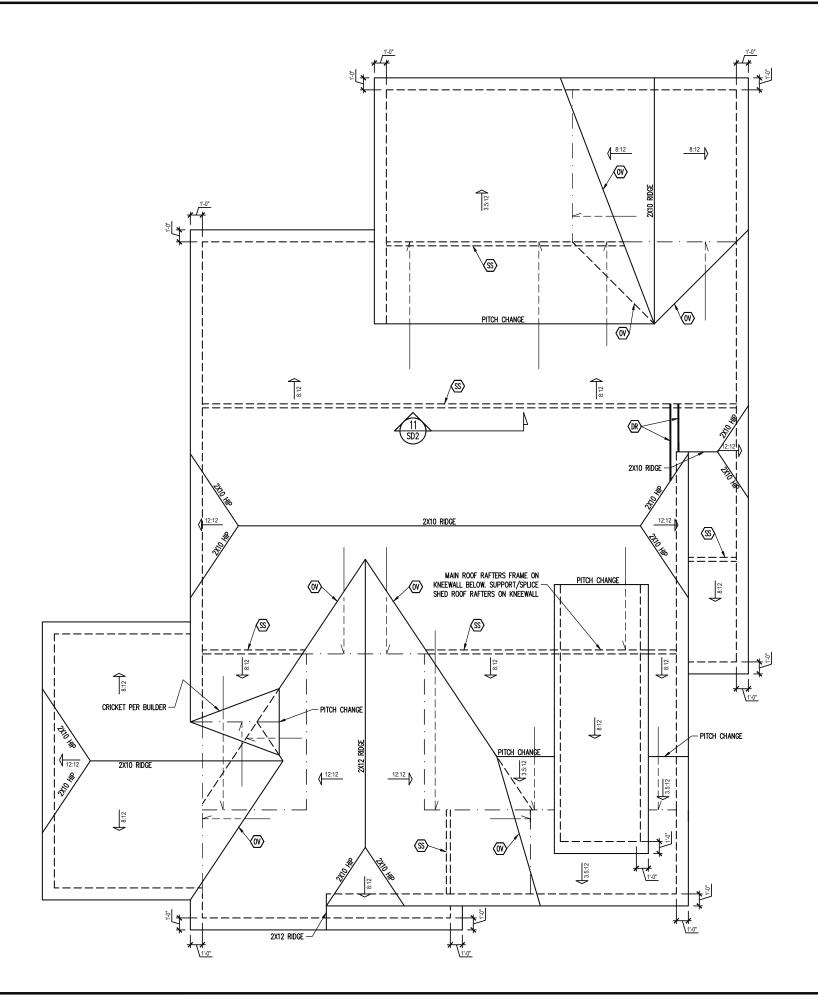
TRUSS SUBSTITUTION 14" I-JOISTS PERMITTED TO BE SUBSTITUTED WITH 14" FLOOR TRUSSES. MAINTAIN MINIMUM SPACING AS CALLED OUT ON PLANS. CONNECTIONS PER TRUSS MANU. CONSTRUCTION SPECIFICATIONS INSTANT REFERENCES REFER TO THE CONSTRUCTION SPECIFICATIONS SECTIONS FOR THE FOLLOWING INFORMATION: PART 1.01: CURRENT GOVERNING CODE PART 14: STUD SUPPORT FOR BEAMS PART 17: KING STUDS FOR EXTERIOR WALLS SEE DETAIL / CONSTRUCTION SPECIFICATIONS SHEETS FOR I-JOISTS ALLOWABLE SUBSTITUTIONS WALL BRACING SHADED WALLS: ALL EXTERIOR STUD WALLS, EXTERIOR SIDE, ARE TO BE CONTINUOUSLY SHEATHED WITH 7/16 APA RATED OSB NAILED TO STUDS WITH 8d NAILS @ 6" O.C. AT PANEL EDGES, 12" O.C. IN PANEL FIELD. WSP - ONE SIDE OF INTERIOR WALL OR INSIDE OF EXTERIOR WALL WITH 3/8" MIN. THICKNESS WOOD STRUCTURAL PANELING, ATTACH WSP TO STUD WALL WITH 8d NAILS @ 4" O.C. AT PANEL EDGES, 8" O.C. IN PANEL FIELD. GB - INTERIOR BRACED WALL. 1/2" GB SECURED PER TABLE R602.10.2 OF THE 2018 NCRBC. (FASTENERS @ 7" O.C.) BOTH SIDES OF WALL. OR (FASTENERS @ 4" O.C.) ONE SIDE OF WALL AT STAIRS 2X - SHEATH BOTH SIDES OF STUD WALL WITH 7 APA RATED OSB, NAILED TO STUDS WITH 8d NAILS @ 6" O.C. AT PANEL EDGES, 12" O.C. IN PANEL FIELD. NOTES PROVIDED CONTINUOUS SHEATHING = 256' MIN. REFERENCE PART 16.02 OF CONSTRUCTION SPECIFICATIONS FOR GENERAL WIND BRACING INFORMATION. HEADER SCHEDULE H1 SINGLE 2X4 TURNED FLAT (A) H2 (2) 2X4'S ON SINGLE JACKS (B) H3 (2) 2X10'S ON SINGLE JACKS (C) H4 (2) 1.75" X 9.25" LVL'S ON DBL JACKS H5 (3) 2X10'S ON SINGLE JACKS (A) TYPICAL FOR INTERIOR NON LOAD BEARING WALLS ONLY. ROUGH OPENING 38" MAX. (B) TYPICAL FOR INTERIOR NON LOAD BEARING WALLS ONLY, ROUGH OPNG 38" TO 74" MAX. (C) TYPICAL FOR ALL CONDITIONS NOT LISTED IN (A) OR (B) UNO. NOTES -HEADERS IN NON LOAD BEARING INTERIOR WALLS ARE NOT LABELED. 1ST FLOOR FRAMING PLAN WALLS AND CEILING

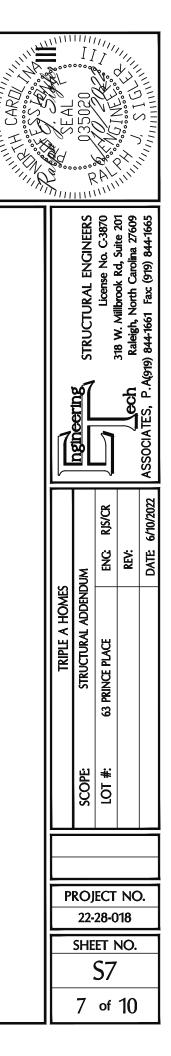
<u>1/8" = 1'-0"</u>











FRAMING SCHEDULE ROOF ONLY OV OVERFRAME VALLEY (2X10 SLEEPER) SK DBL 2X4 STIFF KNEE

SS SUPPORT/SPLICE RAFTERS ON KNEEWALL BELOW

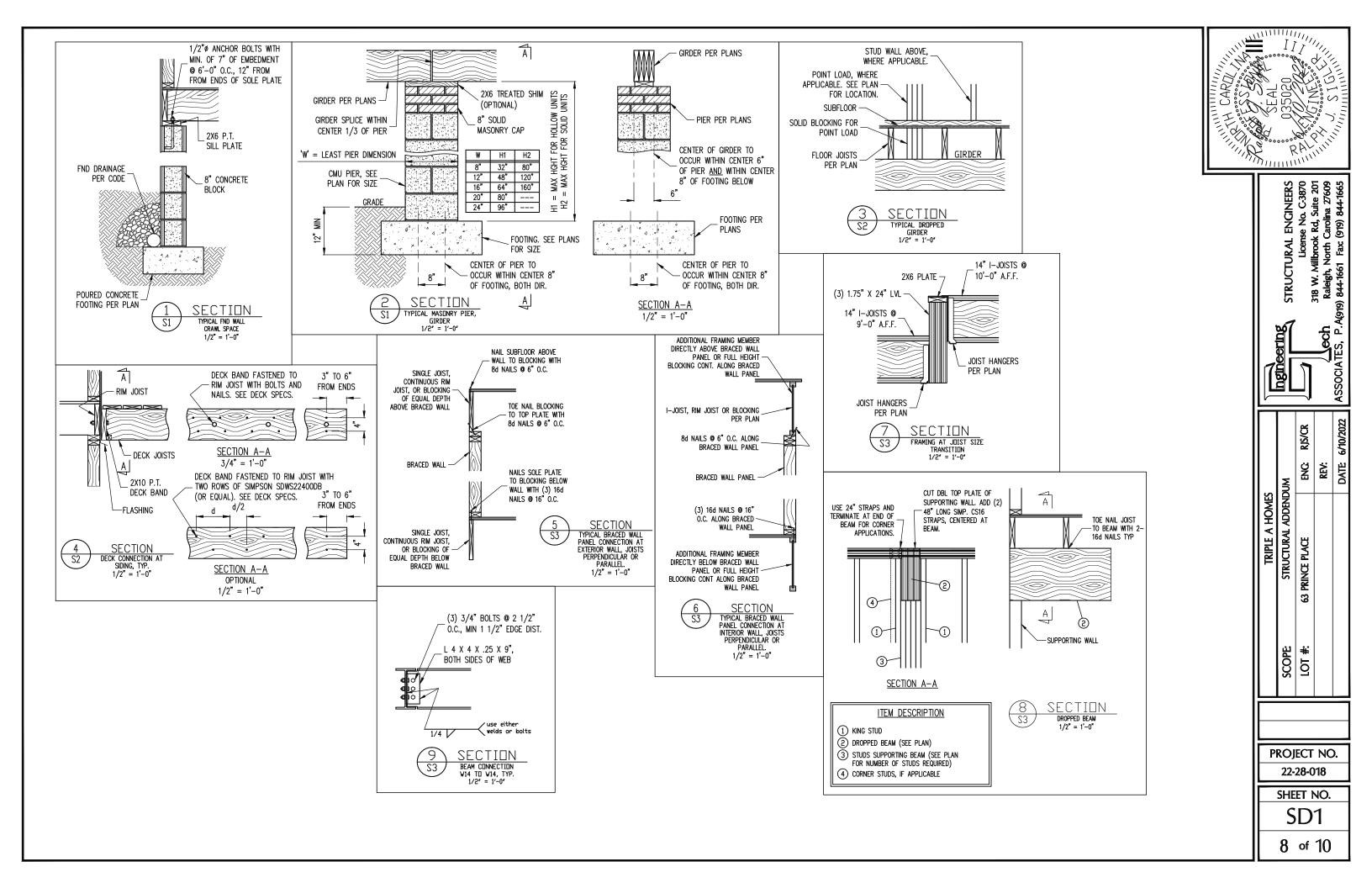
ROOF FRAMING PLAN <u>1/8" = 1'-0"</u>

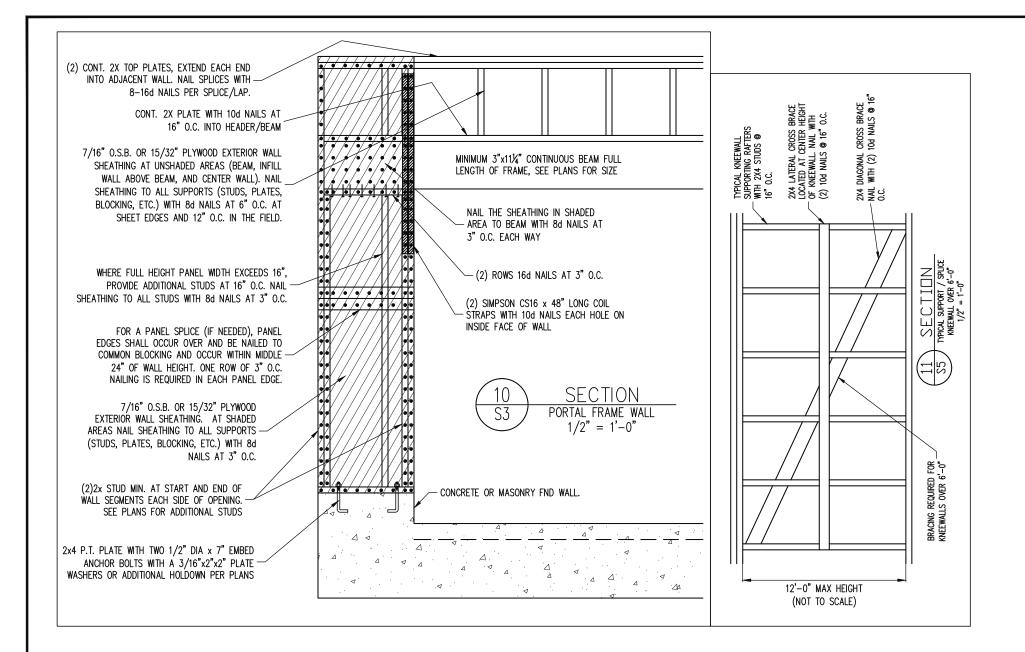
-VERIFY ROOF PITCHES, OVERHANG LENGTHS, AND KNEEWALL FRAMING HGTS WITH ARCHITECTURAL DRAWINGS, TYPICAL.

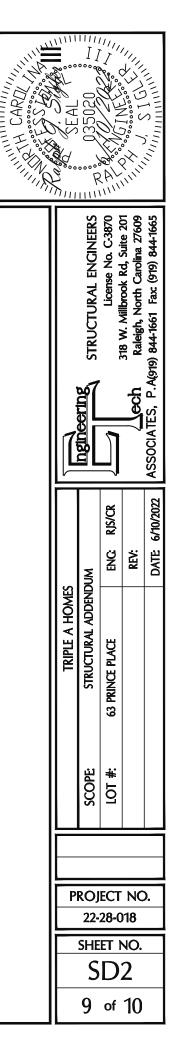
-COMMON RAFTERS 2X8 @ 16" O.C. TYP U.N.O. -COLLAR TIES 2X4 EVERY 3RD SET OF RAFTERS TYP U.N.O.

ROOF ONLY

FRAMING NOTES







| | <u>CONSTRUCTION</u> | SPECIFICATIONS | | | | DECK SPECIFICATIONS | | |
|------|---|--|-------|--|---|------------------------------|--|---|
| 1.01 | PART 1: GENERAL | | 14.03 | |) | A STRUCTURE | I EXPOSED EXTERIOR WOOD FLOO OR BE FREE STANDING. ROOFED | |
| 1.01 | CONSTRUCTION SHALL MEET THE REQUIREMENTS OF THE NORTH CAROLINA RESIDENTIAL CODE, 2018 EDITION. | 7.02 CLAY MASONRY UNITS SHALL CONFORM TO ASTM C62-17 GRADE SW 7.03 MORTAR SHALL BE TYPE S. MORTAR AND GROUT SHALL CONFORM TO ASTM C476, MIN | 14.04 | THE BEAM SHALL BE SUPPORTED BY ONE ADDITIONAL STUD. STUDS THAT ARE GANGED TO FORM A COLUMN SHALL HAVE ADJACENT STUDS WITHIN | | | USING THESE PROVISIONS. | |
| | DIMENSIONS SHOWN SHALL GOVERN OVER SCALE ON THESE DRAWINGS. | COMPRESSIVE STRENGTH OF 2000 PSI. | | THE COLUMN NAILED TOGETHER WITH ONE ROW OF 10d NAILS AT 8" O.C. (TWO ROWS OF 10d NAILS @ 8" O.C., 3" APART, FOR 2X8 OR 2X10 STUDS) ALL COLUMNS SHALL | 2. | | its shall be supported by a 1ed to a structure, the stru | |
| 1.05 | METHODS, PROCEDURES AND SEQUENCES OF CONSTRUCTION ARE THE RESPONSIBILITY OF THE CONTRACTOR, WHO SHALL TAKE ALL NECESSARY PRECAUTIONS TO MAINTAIN AND INSURE THE INTEGRITY OF THE STRUCTURE AT ALL STAGES OF CONSTRUCTION. | 7.05 LADDER WIRE REINFORCEMENT SHALL CONFORM TO ASTM A951. 6" MIN LAPS | | BE CONTINUOUS DOWN TO THE FOUNDATION OR OTHER PROPERLY DESIGNED STRUCTURAL ELEMENT SUCH AS A BEAM. COLLIMINS TRANSFERRING LOADS THROUGH FLOOR LEVELS SHALL BE SOLIDLY BLOCKED <u>FOR THE FULL WIDTH</u> OF THE STUD COLLIMIN | N . | TREATED WOO | DD BAND FOR THE LENGTH OF T ED TO PREVENT MOISTURE FROM | HE DECK, OR CORROSION RESI |
| | PART 2: DESIGN LOADS | FOR CONTINUOUS WALL APPLICATIONS | | WITHIN THE CAVITY FORMED BY THE FLOOR JOISTS. | | CONSTRUCTED | THE STRUCTURE. THE DECK BAN) IN CONTACT WITH EACH OTHER | EXCEPT AT BRICK VENEER A |
| 2.01 | DESIGN LOADS SHALL CONFORM WITH THE TABLE BELOW: | PART 8: BOLTS AND LAG SCREWS 8.01 BOLTS SHALL CONFORM TO ASTM A307 MINIMUM GRADE TYP UNO. INSTALL STANDARD | | PART 15: NAILING OF MULTI PLY WOOD BEAMS | | INSTALLED BE | EATHING IS REQUIRED AND PROP ETWEEN THE STRUCTURE AND TH | E DECK BAND. IF ATTACHED T |
| | USE LIVE LOAD (PSF) DEAD LOAD (PSF) | STEEL WASHERS (ASTM F844-07a) FOR THE NUT / BOLT HEAD WHEN BOLTING WOOD MEMBERS. HOLES FOR BOLTS SHALL BE AISC STANDARD HOLES UNO | 15.01 | ADJACENT MEMBERS IN THE BEAM NAILED TOGETHER WITH THREE ROWS OF 10d NAILS | | IS REQUIRED. | NEITHER FLASHING NOR A TREAT IN ADDITION, THE TREATED DEC | |
| | BALCONIES, DECKS, ATTICS WITH FIXED STAIR ACCESS, DWELLING UNITS INCLUDING ATTICS WITH | 8.02 LAG SCREWS SHALL CONFORM TO ANSI/ASME STANDARD B18.2.1-1981. PILOT HOLES | | © 16" O.C. FOR 2X10 OR LARGER, TWO ROWS OF 10d NAILS © 16" O.C. FOR 2X8, ONE ROW OF 10d NAILS © 16" O.C. FOR 2X6 OR SMALLER. STAGGER ROWS 5" MIN. | | WITH THE BRI | | |
| | FIXED STAIR ACCESS, STAIRS, FIRE ESCAPES 40 10 GARAGES (PASSENGER CARS ONLY) 50 | SHALL BE USED FOR LAG SCREW INSTÂLLATION AND SHALL BE BORED ACCORDING TO NDS SPECIFICATIONS. INSTALL STANDARD STEEL WASHERS (ASTM F844-070) FOR SCREW HEAD | 15.02 | LVL MEMBERS THAT ARE GANGED TO FORM A BEAM SHALL HAVE ADJACENT MEMBERS IN THE BEAM FASTENED TOGETHER PER MANUFACTURERS RECOMMENDATIONS, TYP | | | THE FOLLOWING ATTACHMENT SC | |
| | ATTICS (NO STORAGE, LESS THAN 5' HEADROOM) 10 10 | 8.03 ANCHOR RODS AND BOLTS SHALL CONFORM TO ASTM F1554-15 GRADE 36 UNO. BENT | | UNO | A. ALL STRUCTURES EXCEPT BRICK STRUCTURES | | IRFS | |
| | ATTICS (WITH STORAGE) 20 10 ROOF 20 10 (15 FOR VAULTS) | ANCHOR BOLTS SHALL HAVE A 2" MIN HOOK UNO | 16.01 | PART 16: WALL FRAMING AND BRACING STUD WALLS SHALL CONSIST OF 2X4 STUDS SPACED AT 16" O.C. UNO. STUDS SHALL | | | | NST LENGTH |
| NOTE | S: - INDIVIDUAL STAIR TREADS ARE TO BE DESIGNED FOR THE UNIFORMLY DISTRIBUTED | PART 9: DRIVEN FASTENERS 9.01 NAILS, SPIKES AND STAPLES SHALL CONFORM TO ASTM F 1667- 05. NAILS ARE TO BE | 10.01 | BE CONTINUOUS FROM SOLE PLATE AT FLOOR TO DOUBLE TOP PLATE AT THE CEILING OR ROOF. NO INTERMEDIATE BANDS OR PLATES SHALL CAUSE DISCONTINUITIES IN A | _ | | UP TO 8' MAX. | UP TO 16' N |
| | LIVE LOAD OF 40 PSF OR A 300 LB. CONCENTRATED LOAD ACTING OVER AN AREA OF 4 SQ. WHICHEVER PRODUCES THE GREATER STRESS. | COMMÓN WIRE OR BOX | | STUD WALL EXCEPT AS REQUIRED FOR DOOR OR WINDOW OPENINGS. THE KING STUDS FOR SUCH OPENINGS SHALL BE CONTINUOUS, TYP UNO. | | REQUIRED 0 FASTENERS (2 | NE- 5/8" Ø BOLT @ 42" O.C. /) ROWS OF 12d NAILS @ 8" O.C | ND ONE- 5/8" Ø BOLT @ 2 . OR (3) ROWS OF 12d NAILS |
| | BUILDER TO VERIFY DEAD LOAD DOES NOT EXCEED 10 PSF WHEN HEAVY FLOOR OR ROOF FINISHES SUCH AS TILE OR SLATE ARE UTILIZED. NOTIFY ENGINEERING UNDER THESE CONDITIONS | PART 10: DIMENSIONAL LUMBER 10.01 SOLID SAWN WOOD FRAMING DESIGN IS BASED ON NO. 2 SPRUCE PINE FIR OR SYP #2 | | MAX ALLOWABLE WALL HEIGHTS FOR EXTERIOR STUD WALLS, INCLUSIVE OF SOLE PLATE AND DBL TOP PLATE AND 7/16 OSB EXTERIOR BRACING AND ROW OF 2X4 2X6 PURINS AT & HEIGHT (AND /16 HEIGHT FOR TALL WALLS), TYP UNO: | | ĬV | VO ROWS OF SIMPSON SDWS2240 @ d = 32" O.C. STAGGERED | ODB TWO ROWS OF SIMPSON © d = 16" O.C. ST |
| 2.02 | INTERIOR WALLS: 5 PSF LATERAL. | FOR JOISTS, RAFTERS, GIRDERS, BEAMS, STUDS, ETC. | | 2X4 @ 12" 0.C:: 12'-1 1/2" 2X6 @ 12" 0.C:: 17'-0" 2X4 @ 12" 0.C:: 12'-1 1/2" 2X6 @ 12" 0.C:: 18'-8" | A | . BRICK VENEE | R STRUCTURES | |
| 2.03 | BASIC WIND DESIGN VELOCITY OF 120 MPH. | PART 11: ENGINEERED LUMBER 11.01 LVL OR PSL MINIMUM ALLOWABLE DESIGN STRESSES ARE AS FOLLOWS: | | DBL 2X4 @ 16" O.C.: 13'-4" DBL 2X6 @ 16" O.C.: 21'-0" | | | JC | IST LENGTH |
| 2.04 | SOIL BEARING CAPACITY 2000 PSF (PRESUMPTIVE). | E= 1.9 X 10E6 PSI, F0 = 2600 PSI, Fv = 285 PSI, Fc = 750 PSI LSL MINIMUM ALLOWABLE DESIGN STRESSES ARE AS FOLLOWS: | 16.02 | FOR WALL BRACING THE FOLLOWING SHALL APPLY: -BLOCKING AT UNSUPPORTED PANEL EDGES IS REQUIRED TYP UNO. -WALL BRACING IS BY ENGINEERED DESIGN AND NOT PRESCRIPTIVE PER SECTION | - | REQUIRED | UP TO 8' MAX. | UP TO 16' M/ |
| | PART 3: STRUCTURAL STEEL | E= 1.3 X 10E6 PSI, Fb = 1700 PSI, Fv = 400 PSI, Fc = 680 PSI | | - WALL BRACING IS DE ENGINEERED DESIGN AND NOT PRESCRIPTIVE PER SECTION 602.10 OF THE 2018 NCRC. CONTINUOUS SHEATHING HAS BEEN PROVIDED, ALONG WITH ALTERNATIVE METHODS TO INSURE THE MINIMUM INTENT OF SECTION 602.10 | | FASTENERS | ONE- 5/8" Ø BOLT @ 28" O.C | . ONE- 5/8" Ø BOLT (|
| 3.01 | WIDE FLANGE BEAMS AND TEE SECTIONS SHALL CONFORM TO ASTM A992 MINIMUM GRADE | 11.02 LVL OR PSL MEMBERS MAY BE RIPPED FROM DEEPER MEMBERS TO MATCH THE MEMBER DEPTH SPECIFIED IN THE PLANS | | OF THE 2018 NCRC HAS BEEN MET AND EXCEEDED. -BRACED WALL PANELS SHALL BE FASTENED IN ACCORDANCE WITH TABLE 602.3(1) TO | | | BAND IS SUPPORTED BY A 1/2" /ALL, 5/8" Ø BOLTS SPACED @ | |
| 3.02 | SQUARE AND RECTANGULAR TUBING SHALL CONFORM TO ASTM A500 GRADE B MINIMUM GRADE. | PART 12: PRESSURE TREATED LUMBER | | PROVIDE CONTINUOUS PANEL UPLIFT RESISTANCE AND COMPLIANCE WITH NCRBC R602.3.5 AND R802.11 UNLESS NOTED OTHERWISE ON STRUCTURAL PLANS. —MAY SUBSTITUTE WSP FOR GB | | | G OF SUPPORT, SUCH AS JOIST I | |
| 3.03 | STEEL PIPE SHALL CONFORM TO ASTM A53 GRADE B, TYPE S, MINIMUM GRADE | 12.01 LUMBER IN CONTACT WITH THE GROUND, CONCRETE OR MASONRY SHALL BE PRESSURE TREATED IN ACCORDANCE WITH AWPA STANDARD C-15. ALL OTHER EXPOSED LUMBER SHALL BE TREATED IN ACCORDANCE WITH AWPA STANDARD C-2 OR BY ANY METHOD | | -Single joist, continuous Rim Joist, or Blocking of Equal Depth is required Above and below all braced Walls. Nail Blocking Above Wall to top plate | | | REATED STRUCTURE BAND | |
| 3.04 | ALL OTHER STRUCTURAL STEEL SHALL CONFORM TO ASTM A36 MINIMUM GRADE | GIVING EQUAL PROTECTION. THE BUILDING CODE OFFICE MAY ALSO APPROVE A NATURAL DECAY RESISTANT WOOD PER SECTION 19-6(A) | L | WITH 16d TOE NAILS @ 6" O.C. NAIL SOLE PLATE OF BRACED WALL TO BLOCKING BELOW WITH (3) 16d NAILS @ 16" O.C. BLOCKING AT HORIZONTAL JOINTS IN BRACED | 7. | GIRDERS SHAL WITH 2- 5/8 | L BEAR DIRECTLY ON POSTS OR Ø BOLTS | BE BE CONNECTED TO THE S |
| 3.05 | STRUCTURAL STEEL CONSTRUCTION SHALL MEET THE REQUIREMENTS OF THE AISC SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS. | PART 13: STEEL FLITCH PLATE BEAMS | | WALL LINES ONLY REQUIRED AT SHADED WALLS, UNO. <u>PART 17: KING STUDS</u> 11 KING STUDS FOR OPENINGS IN EXTERIOR WALLS SHALL BE AS FOLLOWS: | 8. | , | IG SHALL BE NO. 2 GRADE TREA | TED SOUTHERN PINE OR EQUI |
| | POR BUILDINGS. PART 4: WELDING | 13.01 FLITCH PLATE BEAMS SHALL CONSIST OF A CONTINUOUS STEEL PLATE BOLTED BETWEEN TWO PIECES OF CONTINUOUS LUMBER AS SIZED ON THE PLANS. BOLT PIECES TOGETHER | | | | MINIMUM FLOO | r decking thickness shall be | AS FOLLOWS: |
| 4.01 | welding electrodes shall be e70xx and all welding shall be performed by an | USING 1/2" Ø BOLTS SPACED AT 16" O.C. STAGGERED TOP TO BOTTOM OF THE BEAM. MAINTAIN A 2" EDGE DISTANCE. PLACE TWO BOLTS, ONE ABOVE THE OTHER, 16" MAX | | NUMBER OF KING STUDS MAX OPENING WIDTH 5'-0" 9'-0" 13'-0" 17'-0" 21'-0" | | | JOIST SPAN | DECKING |
| | AWS CERTIFIED WELDER PART 5: CONCRETE AND SLABS ON GRADE | FROM EACH END OF THE BEAM. TYP UNO PART 14: STUD SUPPORTS FOR BEAMS | | 2X4 1 2 3 4 5 STUD SIZE 2X6 1 1 2 2 2 | | | 12" O.C. 16" O.C. | 1"S4S 1"T&G |
| 5.01 | CAST IN PLACE CONCRETE SHALL BE OF NORMAL WEIGHT, 4-6% AIR ENTRAINMENT, FOR | 14.01 STEEL ENGINEERED LUMBER. AND FLITCH PLATE BEAMS BEARING ON A STUD WALL | | 2x8 1 1 1 1 2 | | | 24" O.C. 32" O.C. | 1 1/4" S4S 2" S4S |
| | EXTERIOR CONCRETE AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS TYPP UNO. <u>ALL</u> ITEMS NOTED AS 'CONCRETE' ARE TO BE CAST IN PLACE, TYP UNO. | SHALL BEAR AS FOLLOWS: 1WHEN THE BEAM IS PERPENDICULAR TO, OR SKEWED RELATIVE TO THE WALL, THE BEAM | 18.01 | PART 18: SUBSTITUTIONS MATERIAL OR MEMBER SIZE SUBSTITUTIONS OR PLAN DEVIATIONS REQUIRE THE WRITTEN | | MAXIMUM HEIO | SHT OF DECK SUPPORT POSTS IS | S AS FOLLOWS: |
| 5.02 | REINFORCED CAST IN PLACE CONCRETE SHALL BE PROPORTIONED. MIXED AND PLACED IN | Shall bear <u>full width</u> on the supporting wall indicated and shall be supported by a minimum of three ganged studs, or a ganged stud column with a number | | AUTHORIZATION OF THE DESIGNERS. UNAUTHORIZED DEVIATIONS ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. | | | POST SIZE | MAX POST HEIGH |
| 5.03 | ACCORDANCE WITH THE SPECIFICATIONS OF ACI 318, LATEST EDITION. SLABS ON GRADE, IF ANY, SHALL BE CAST IN PLACE, CONTAIN SYNTHETIC | OF STUDS SUCH THAT THE STUD COLUMN IS AT LEAST AS WIDE AS THE TRUE WOTH OF THE BEAM BEING SUPPORTED, WHICHEVER IS GREATER, TYP UNO. FOR THE SKEWED CONDITION PARTICULAR CARE SHALL BE TAKEN TO ENSURE STUD COLUMN IS CENTERED ON | | PART 19: OWNERSHIP OF STRUCTURAL DESIGN | | | 4X4 6X6 | 8' 20' |
| 5.05 | POLYPROPYLENE FIBRILLATED MICRO FIBERS, FIBER LENGTH 1 1/2", DOSAGE RATE 1 1/2 LDS/CU YD. SLAB TO BE PLACED ON A 6 MIL VAPOR BARRIER ON 4" MIN GRANULAR | CONDITION PARTICULAR CARE SHALL BE TAKEN TO ENSURE STUD COLUMIN IS CENTERED ON THE BEAM 2-DEAMS BEARING ONTO THE END OF A STUD WALL PARALLEL TO THE BEAM SHALL BEAR | 19.01 | THE STRUCTURAL DESIGN OF THIS PLAN IS THE PROPERTY OF ENGINEERING TECH ASSOCIATES (FTA) THESE PLANS ARE FOR THE ONE TIME LISE AT THE LOCATION | | | ENGINEERED | 20' + |
| | FILL ON SOIL WITH 90% MIN STANDARD PROCTOR DENSITY. VAPOR BARRIER MAY BE OMITTED FOR SLABS NOT IN ENCLOSED AREAS | A minimum of 4 $1/2^{\prime\prime}$ onto the wall and be supported by a trpl stud ganged column typ uno. | | ASSOCIATES (ETA). THESE PLANS ARE FOR THE ONE TIME USE AT THE LOCATION INDICATED AND FOR THE CLIENT LISTED. ETA ASSUMES NO LIABILITY FOR THESE PLANS IF THEY ARE, REPRODUCED, IN WHOLE OR IN PART, FOR CONSTRUCTION AT | | | HS TABLE IS BASED ON NO. 2 T HS TABLE IS BASED ON A MAXIN | |
| | PART 6: REBAR AND WIRE REINFORCEMENT | 14.02 DIMENSIONAL LUMBER BEAMS BEARING ON A STUD WALL SHALL BEAR AS FOLLOWS: | | ANY OTHER LOCATION WITHOUT WRITTEN PERMISSION FROM ETA | | 3) P(| ost height is from top of fo | oting to bottom of girder. |
| 6.01 | REBAR SHALL BE DEFORMED STEEL CONFORMING TO ASTM A615 GRADE 60 TYP UNO | 1-WHEN THE BEAM IS PERPENDICULAR TO, OR SKEWED RELATIVE TO THE WALL, THE BEAM SHALL BEAR <u>FULL WIDTH</u> ON THE SUPPORTING WALL INDICATED (LESS 1 1/2" TO ALLOW | | | 10. | DECKS SHALI METHODS: | L BE BRACED TO PROVIDE LATER | RAL STABILITY BY ONE OF THE |
| | LAP SPLICES SHALL BE CLASS B AS DEFINED BY ACI 318, TYP UNO WIRE REINFORCEMENT SHALL BE 9 GA AND SHALL CONFORM TO ASTM A1064. | FOR A CONTINUOUS RIM JOIST WHERE APPLICABLE) AND SHALL BE SUPPORTED BY A GANGED STUD COLUMN THE SAME WIDTH AS THE BEAM TYP UNO. (E.G. A TRIPLE 2X10 IS | | | | | e deck floor height is less | |
| 0.00 | PART 7: MASONRY | TO BE SUPPORTED BY (3) STUDS). FOR THE SKEWED CONDITION PARTICULAR CARE SHALL BE TAKEN TO ENSURE STUD COLUMN IS CENTERED ON THE BEAM 2-BEAMS BEARING ONTO THE END OF A STUD WALL PARALLEL TO THE BEAM SHALL BEAR A | | | | | CTURE IN ACCORDANCE WITH SE | , |
| 7.01 | CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90 AND C55, NORMAL WEIGHT, | MINIMUM OF 3" ONTO THE WALL AND BE SUPPORTED BY A DBL STUD GANGED COLUMN TYP UNO. | | | | THE KNEE | KNEE BRACES MAY BE PROVIDE BRACES SHALL ATTACH TO EAC | CH POST AT A POINT NOT LES |
| | | | | | | BETWEEN | LENGTH FROM THE TOP OF THE 45° AND 60° FROM THE HORIZO | NTAL. KNEE BRACES SHALL B |
| | | | | | | | STO THE GIRDER AND THE POST STANDING DECKS WITHOUT KNEE | , |
| | | | | | _ | STABILITY | MAY BE PROVIDED BY EMBEDDIN FOLLOWING: | |
| | | | | | | POST SIZE | | GHT EMB. DEPTH CONC |
| | | | | | | 4X4 | 48 SQ. FT. 4'-0" | 2'-6" 1' |
| | | | | | | 6X6 | 120 SQ. FT. 6'-0" | |
| 1 | | | | | | DIRECTION | NAL VERTICAL CROSS BRACING S FOR FREE STANDING DECKS O | R PARALLEL TO THE STRUCTU |
| 1 | | | | | | | COLUMN LINE FOR ATTACHED DI S WITH ONE - 5/8" Ø BOLT AT | |
| 1 | | | | NOT | | ails and bolts are to be hot | | |
| 1 | | | | | | | IM EDGE DISTANCE FOR BOLTS IS MUST PENETRATE THE SUPPORT | |
| | | | | | | | | |
| | | | | | _ | | | |

