

Project #;

12-2-2020

Date:

12-2-20

Drawn/Design By:

KBB

Scale:

REFER TO ELEV.

REVISIONS

10. Date: Remarks

1 2 3 4

1 Ten-Ten Rd. igh, NC 27603 te: (919) 302-0693

9101 Ter Besigh, Design



Teralyn II G

**Triangle Home Pros, LLC** 6312 Lauraca Lane Fuquay-Varina, NC 27526

**ELEVATIONS** 

Sheet Number

1

of 5

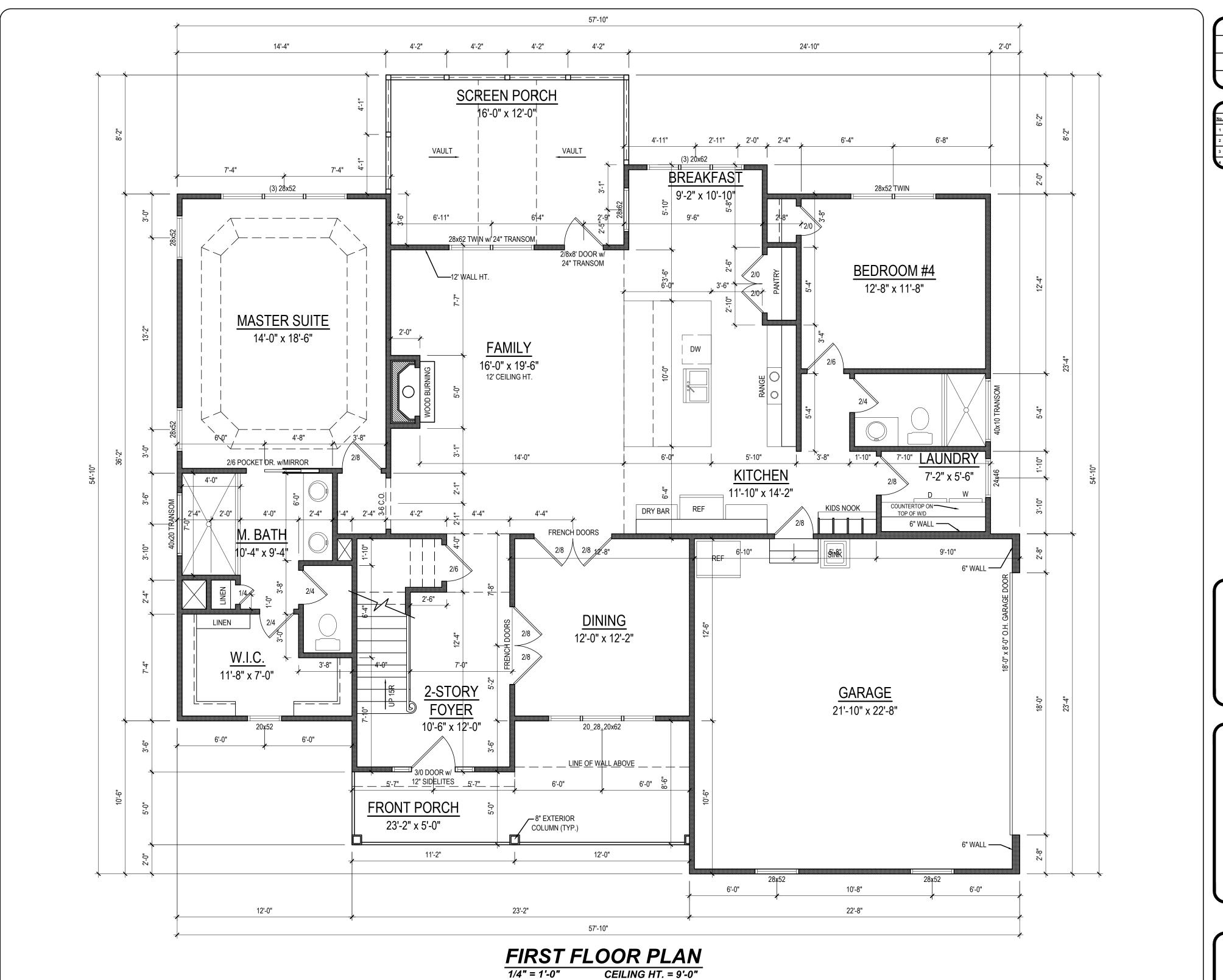
Project #: 12-2-2020 <u>Date:</u> 12-2-20 Drawn/Design By: KBB Scale: 1/4" = 1'-0"

REVISIONS

9101 Ten-Ten Rd. Raleigh, NC 27603 Office: (919) 302-0693

Teralyn

**FOUNDATION** 



Project #: 12-2-2020 <u>Date:</u> 12-2-20 Drawn/Design By: KBB

Scale: 1/4" = 1'-0" REVISIONS Remarks

9101 Ten-Ten Rd. Raleigh, NC 27603 Office: (919) 302-0693

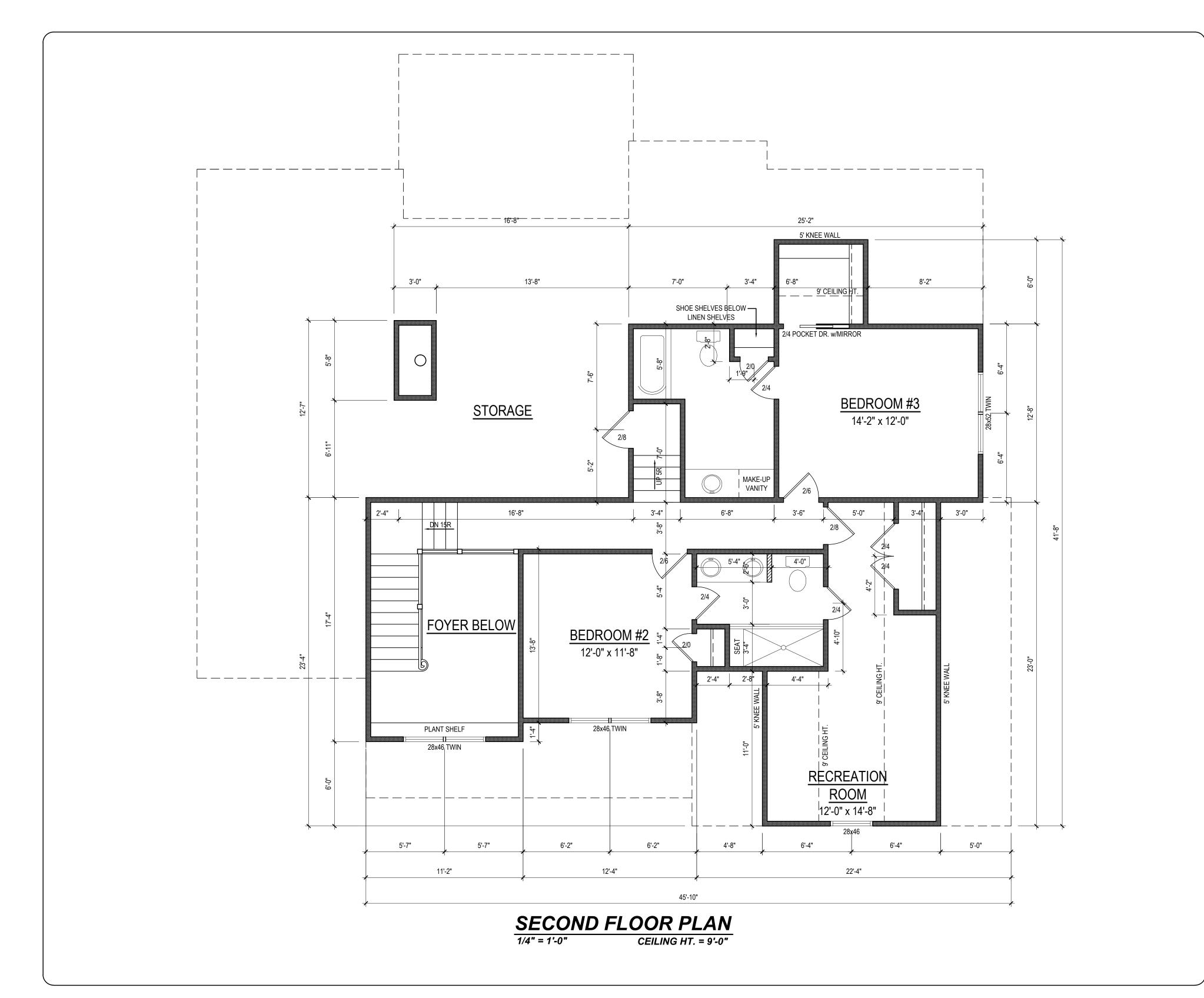
Email: Kent@KandAHo

GR Teralyn II

**Triangle Home Pros, LLC** 6312 Lauraca Lane Fuquay-Varina, NC 27526

FIRST FLOOR

Sheet Number



Project #: 12-2-2020 <u>Date:</u> 12-2-20 Drawn/Design By: KBB

Scale: 1/4" = 1'-0" REVISIONS

9101 Ten-Ten Rd. Raleigh, NC 27603 Office: (919) 302-0693

GR Teralyn II

SECOND FLOOR

Sheet Number

- CALCULATIONS SHOWN BELOW ARE BASED ON VENTILATORS USED AT LEAST 3 FT. ABOVE THE CORNICE VENTS WITH THE BALANCE OF

SQ. FT. OF ATTIC/300= 8.78

EACH OF INLET AND OUTLET REQUIRED.

NEGATIVE PRESSURE.

- ROOF VALUES BOTH POSITVE AND NEGATIVE SHALL BE AS FOLLOWS:

45.5 LBS. PER SQ. FT. FOR ROOF PITCHES OF 0/12 TO 2.25/12

Project #: 12-2-2020

Drawn/Design By:

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

REVISIONS

<u>Date:</u> 12-2-20

KBB

9101 Ten-Ten Rd. Raleigh, NC 27603 Office: (919) 302-0693



**ROOF LAYOUT** 

Sheet Number

ATTIC VENTILATION CALCULATIONS

VENTIALTION PROVIDED BE EAVE VENTS.

- CATHEDRAL CEILINGS SHALL HAVE A MIN. 1" CLEARANCE BETWEEN THE BOTTOM OF THE ROOF DECK AND THE INSULATION.

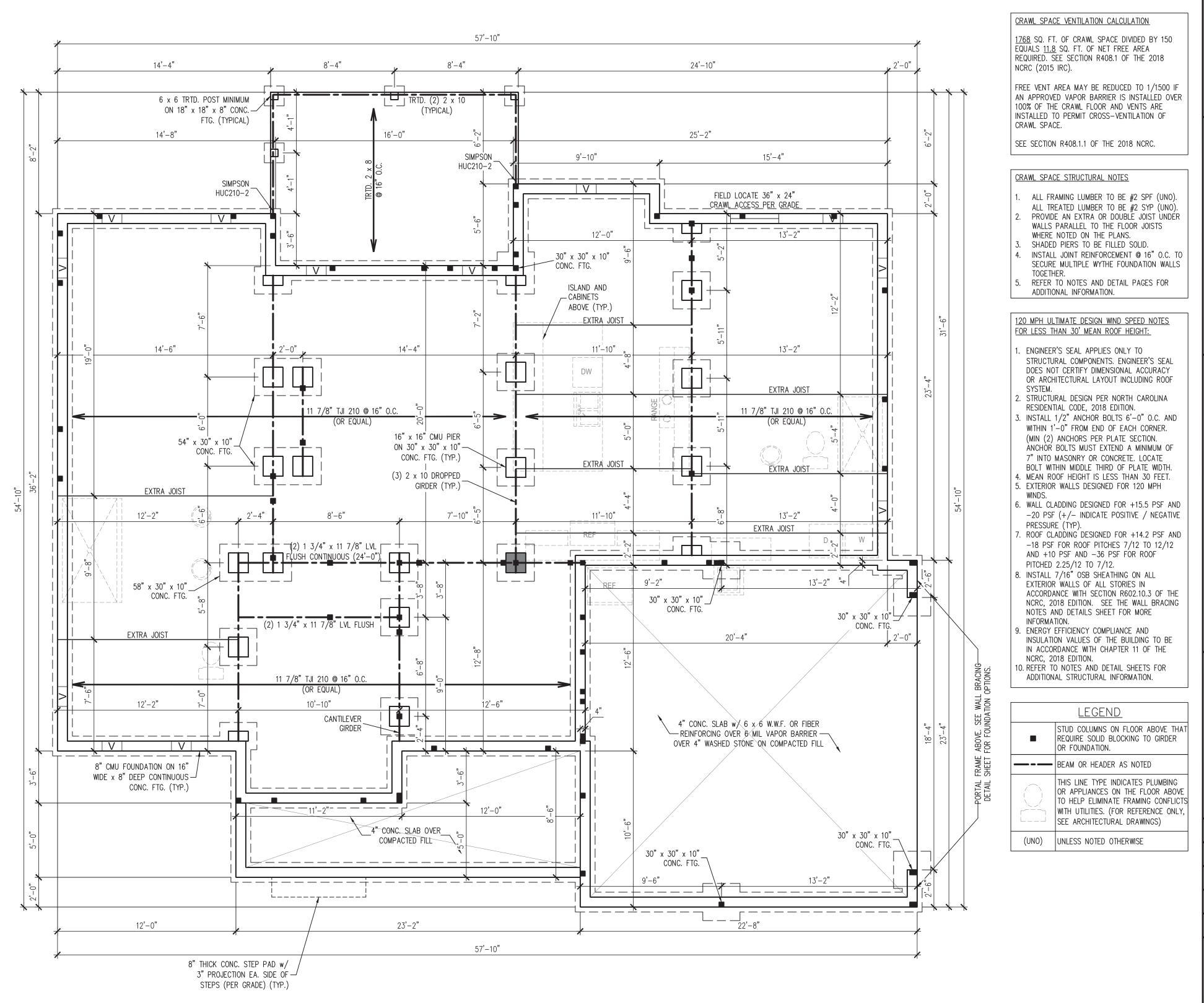
#### \*WALL AND ROOF CLADDING DESIGN VALUES

- WALL CLADDING IS DESIGNED FOR A 24.1 SQ. FT. OR GREATER POSITIVE AND

34.8 LBS. PER SQ. FT. FOR ROOF PITCHES OF 2.25/12 TO 7/12

21 LBS. PER SQ. FT. FOR ROOF PITCHES OF 7/12 TO 12/12

\*\* MEAN ROOF HEIGHT 30' OR LESS





27502 |@gmail. -2212

-1430 CERTIFI

1532 ) 864-N.C.

(919)

S

CONE

SMITH

RIGHT S, LLC I - GARAGE R HOME PROS, TERALYN II TRIANGLE 

REVISIONS DRAWN BY: K&A HOME DESIGNS, INC.

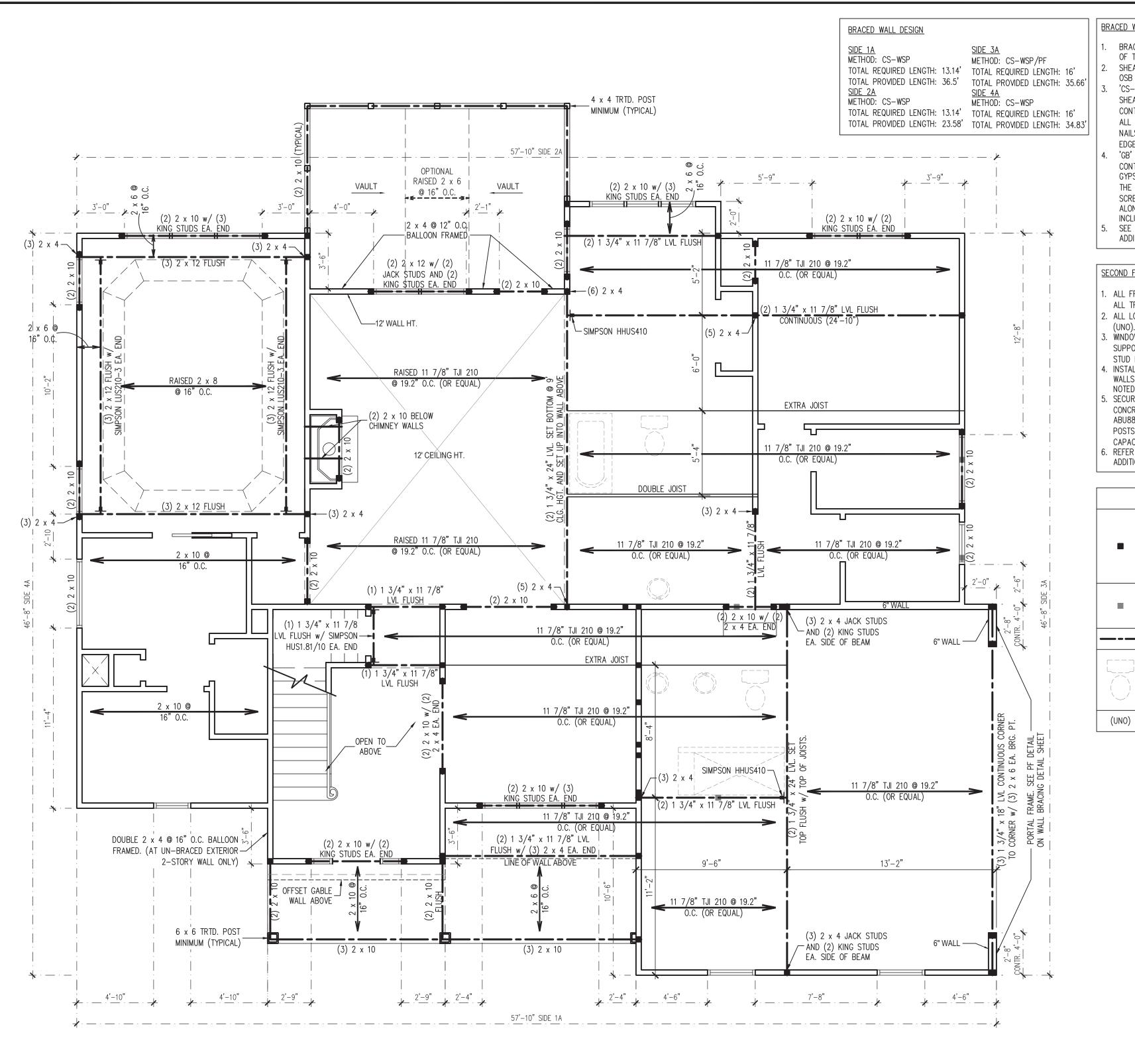
ENGINEERED BY: J. SMITH

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

DATE: **DECEMBER 4, 2020** 

SHEET: 1 OF: 6

**S-1 CRAWLSPACE** FOUNDATION PLAN



#### BRACED WALL DESIGN NOTES:

- BRACED WALL DESIGN PER SECTION R602.10 OF THE NCRC 2018 EDITION.
- SHEATH ALL EXTERIOR WALLS WITH 7/16" OSB PER THE CS-WSP METHOD.
- 'CS-WSP' REFERS TO "CONTINUOUS SHEATHING - WOOD STRUCTURAL PANELS." CONTRACTOR IS TO INSTALL 7/16" OSB ON ALL EXTERIOR WALLS ATTACHED w/8d NAILS SPACED 6" O.C. ALONG PANEL EDGES AND 12" O.C. IN THE FIELD.
- 'GB' REFERS TO "GYPSUM BOARD" CONTRACTOR IS TO INSTALL 1/2" (MIN.) GYPSUM WALL BOARD WHERE NOTED ON THE PLANS. FASTEN GB WITH 1 1/4" SCREWS OR 1 5/8" NAILS SPACED 7" O.C. ALONG PANEL EDGES AND IN THE FIELD INCLUDING TOP AND BOTTOM PLATES. SEE NOTES AND DETAIL SHEETS FOR
- ADDITIONAL BRACED WALL INFORMATION.

#### SECOND FLOOR FRAMING STRUCTURAL NOTES:

- ALL FRAMING LUMBER TO BE SPF #2 (UNO). ALL TREATED LUMBER TO BE SYP #2 (UNO.)
- . ALL LOAD BEARING HEADERS TO BE (2) 2 x 6
- WINDOW AND DOOR HEADERS TO BE SUPPORTED w/ (1) JACK STUD AND (1) KING STUD EA. END (UNO.)
- INSTALL AN EXTRA OR DOUBLE JOIST UNDER WALLS PARALLEL TO THE JOISTS WHERE NOTED ON THE PLANS.
- SECURE 4 x 4 OR 6 x 6 POSTS TO CONCRETE/MASONRY w/ SIMPSON ABU44 OR ABU88 POST BASES. SÉCURE 4 x 4 OR 6 x 6 POSTS TO HEADERS/BEAMS w/ 700 LB CAPACITY UPLIFT CONNECTORS (UNO).
- REFER TO NOTES AND DETAIL SHEETS FOR ADDITIONAL STRUCTURAL INFORMATION.

#### <u>LEGEND</u>

STUD COLUMN AT POINT LOADS THAT REQUIRE SOLID BLOCKING TO GIRDER OR FOUNDATION.

AT DROPPED HEADERS: (1) JACK STUD AND (1) KING STUD (UNO). AT FLUSH BEAMS: (2) STUDS (UNO)

OFFSET POINT LOAD FROM FLOOR ABOVE. MUST BE SUPPORTED BY BEAM JOIST, OR BLOCKING AS NOTED ON THE

BEAM OR HEADER AS NOTED

THIS LINE TYPE INDICATES PLUMBING OR APPLIANCES ON THE FLOOR ABOVE TO HELP ELIMINATE FRAMING CONFLICTS WITH UTILITIES. (FOR REFERENCE ONLY, SEE ARCHITECTURAL DRAWINGS)

UNLESS NOTED OTHERWISE

STRUCE SMITH

7

CARO

PESSION A

038485

12/4/2020 Z

27502 |@gmail. -2212 S CONE AVE. • APEX, NC 4-1430 • jsmithstructura CERTIFICATE NUMBER: P 1532 ) 864-N.C. (919)

RIGHT 3, LLC I - GARAGE R HOME PROS, TERALYN II TRIANGLE 

REVISIONS DRAWN BY: K&A HOME DESIGNS, INC.

ENGINEERED BY: J. SMITH

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

DATE: **DECEMBER 4, 2020** 

SHEET: **2** OF: **6** 

**S-2** SECOND FLOOR FRAMING PLAN

#### BRACED WALL DESIGN NOTES:

- BRACED WALL DESIGN PER SECTION R602.10 OF THE NCRC 2018 EDITION.
- PER SECTION R602.10.3.2 OF THE 2018 NCRC, THE AMOUNT OF BRACING ON THE SECOND FLOOR EXCEEDS THE AMOUNT REQUIRED FOR THE FIRST FLOOR AND NO BRACED WALL ANALYSIS IS REQUIRED.
- SHEATH ALL EXTERIOR WALLS WITH 7/16" OSB PER THE CS-WSP METHOD.
- 'CS-WSP' REFERS TO "CONTINUOUS SHEATHING - WOOD STRUCTURAL PANELS." CONTRACTOR IS TO INSTALL 7/16" OSB ON ALL EXTERIOR WALLS ATTACHED w/ 8d NAILS SPACED 6" O.C. ALONG PANEL EDGES AND 12" O.C. IN THE FIELD.
- 'GB' REFERS TO "GYPSUM BOARD" CONTRACTOR IS TO INSTALL 1/2" (MIN.) GYPSUM WALL BOARD WHERE NOTED ON THE PLANS. FASTEN GB WITH 1 1/4" SCREWS OR 1 5/8" NAILS SPACED 7" O.C. ALONG PANEL EDGES AND IN THE FIELD INCLUDING TOP AND BOTTOM PLATES.
- SEE NOTES AND DETAIL SHEETS FOR ADDITIONAL BRACED WALL INFORMATION.

#### CEILING FRAMING STRUCTURAL NOTES:

- ALL FRAMING LUMBER TO BE SPF #2 (UNO). ALL TREATED LUMBER TO BE SYP #2 (UNO.) 2. ALL LOAD BEARING HEADERS TO BE (2) 2 x 6
- (UNO). WINDOW AND DOOR HEADERS TO BE SUPPORTED w/ (1) JACK STUD AND (1) KING
- REFER TO NOTE'S AND DETAIL SHEETS FOR ADDITIONAL STRUCTURAL INFORMATION.

STUD EA. END (UNO.)

#### LEGEND

STUD COLUMN AT POINT LOADS THAT REQUIRE SOLID BLOCKING TO GIRDER OR FOUNDATION.

AT DROPPED HEADERS: (1) JACK STUD AND (1) KING STUD (UNO). AT FLUSH BEAMS: (2) STUDS (UNO)

BEAM OR HEADER AS NOTED

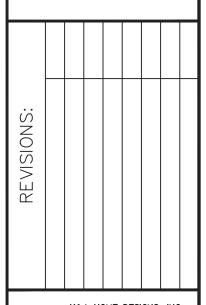
UNLESS NOTED OTHERWISE

12/4/2020 Z

## TURAL PLLC. 27502 |@gmail. |-2212 2 CONE AVE. • APEX, NC 2 4-1430 • jsmithstructural@ . CERTIFICATE NUMBER: P-SMITH STRUC ENGINEERING, 1532 | (919) 864-N.C. (

7

# RIGHT S, LLC I - GARAGE R HOME PROS, TERALYN II TRIANGLE H



DRAWN BY: K&A HOME DESIGNS, INC.

ENGINEERED BY: J. SMITH

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

DATE: **DECEMBER 4, 2020** 

SHEET: **3** OF: **6** 

**S-3 CEILING FRAMING PLAN** 

ROOF FRAMING STRUCTURAL NOTES:

- ALL FRAMING LUMBER TO BE #2 SPF (UNO). 2. CIRCLES DENOTE (3) 2 x 4 POSTS FOR ROOF SUPPORT.
- STICK FRAME OVER-FRAMED ROOF SECTIONS W/ 2 x 8 RIDGES, 2 x 6 RAFTERS @ 16" O.C. AND FLAT 2 x 10 VALLEYS OR USE VALLEY TRUSSES.
- . HIP SPLICES ARE TO BE SPACED 8'-0" O.C. MINIMUM. FASTEN MEMBERS WITH (3) ROWS OF 12d NAILS @ 16" O.C.
- FASTEN FLAT VALLEYS TO RAFTERS OR TRUSSES WITH SIMPSON H2.5A HURRICANE TIES @ 32" O.C. MAX. PASS HURRICANE TIES THROUGH NOTCH IN ROOF SHEATHING IF REQUIRED. SECURE RAFTERS TO FLAT VALLEYS WITH A MIN. OF (6) 12d TOE NAILS.
- REFER TO SECTION R802.11 OF THE 2018 NCRC FOR REQUIRED UPLIFT RESISTANCE AT RAFTERS AND (OR) TRUSSES.
- REFER TO NOTÈS AND DETAIL SHEETS FOR ADDITIONAL STRUCTURAL INFORMATION.

038485 12/4/2020 Z

I. SMITH STRUCTURAL ENGINEERING, PLLC.

1532 CONE AVE. • APEX, NC 27502 (919) 864-1430 • jsmithstructural@gmail. N.C. CERTIFICATE NUMBER: P-2212

RIGHT S, LLC TERALYN II - GARAGE F TRIANGLE HOME PROS,

REVISIONS

DRAWN BY: K&A HOME DESIGNS, INC.

ENGINEERED BY: J. SMITH

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

DATE: **DECEMBER 4, 2020** 

SHEET: 4 OF: 6

**S-4** ROOF FRAMING **PLAN** 

- 1. ENGINEER'S SEAL APPLIES ONLY TO STRUCTURAL COMPONENTS INCLUDING ROOF RAFTERS, HIPS, VALLEYS, RIDGES, FLOORS, WALLS, BEAMS, HEADERS, COLUMNS, CANTILEVERS, OFFSET LOAD BEARING WALLS, PIERS, GIRDER SYSTEM AND FOOTING. ENGINEER'S SEAL DOES NOT CERTIFY DIMENSIONAL ACCURACY OF ARCHITECTURAL LAYOUT INCLUDING ROOF. ENGINEER'S SEAL DOES NOT APPLY TO I—JOIST OR FLOOR/ROOF TRUSS LAYOUT DESIGN AND ACCURACY
- 2. ALL CONSTRUCTION SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE NORTH CAROLINA RESIDENTIAL CODE (NCRC), 2018 EDITION, PLUS ALL LOCAL CODES AND REGULATIONS. THE STRUCTURAL ENGINEER IS NOT RESPONSIBLE FOR, AND WILL NOT HAVE CONTROL OF, CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, OR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE CONSTRUCTION WORK. NOR WILL THE ENGINEER BE RESPONSIBLE FOR THE CONTRACTORS FAILURE TO CARRY OUT THE CONSTRUCTION WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- 3. STRUCTURAL DESIGN BASED ON THE PROVISIONS OF THE NCRC, 2018 EDITION (R301.4 R301.7)

DESIGN CRITERIA:	LIVE LOAD (PSF)	DEAD LOAD (PSF)	DEFLECTION (IN)				
ATTIC WITH LIMITED STORAGE	20	10	L/240 (L/360 w/ BRITTLE FINISHES)				
ATTIC WITHOUT STORAGE	10	10	L/360				
DECKS	40	10	L/360				
EXTERIOR BALCONIES	40	10	L/360				
FIRE ESCAPES	40	10	L/360				
HANDRAILS/GUARDRAILS	200 LB OR 50 (PL	.F) 10	L/360				
PASSENGER VEHICLE GARAGE	50	10	L/360				
ROOMS OTHER THAN SLEEPING ROOM	40	10	L/360				
SLEEPING ROOMS	30	10	L/360				
STAIRS	40	10	L/360				
WIND LOAD	(BASED ON TABLE R301.2(4) WIND ZONE AND EXPOSURE)						
GROUND SNOW LOAD: Pg	20 (PSF)		,				

- I-JOIST SYSTEMS DESIGNED WITH 12 PSF DEAD LOAD AND DEFLECTION (IN) OF L/480
- FLOOR TRUSS SYSTEMS DESIGNED WITH 15 PSF DEAD LOAD
- 4. FOR 115 AND 120 MPH WIND ZONES, FOUNDATION ANCHORAGE IS TO COMPLY WITH SECTION R403.1.6 OF THE NCRC, 2018 EDITION. FOR 130 MPH, 140 MPH, AND 150 MPH WIND ZONES, FOUNDATION ANCHORAGE IS TO COMPLY WITH SECTION 4504 OF THE NCRC, 2018 EDITION.
- 5. ENERGY EFFICIENCY COMPLIANCE AND INSULATION VALUES OF THE BUILDING TO BE IN ACCORDANCE WITH CHAPTER 11 OF THE NCRC, 2018 EDITION.

### FOOTING AND FOUNDATION NOTES

- 1. FOUNDATION DESIGN BASED ON A MINIMUM ALLOWABLE BEARING CAPACITY OF 2000 PSF. CONTACT GEOTECHNICAL ENGINEER IF BEARING CAPACITY IS NOT ACHIEVED.
- 2. FOR ALL CONCRETE SLABS AND FOOTINGS, THE AREA WITHIN THE PERIMETER OF THE BUILDING ENVELOPE SHALL HAVE ALL VEGETATION, TOP SOIL AND FOREIGN MATERIAL REMOVED. FILL MATERIAL SHALL BE FREE OF VEGETATION AND FOREIGN MATERIAL. THE FILL SHALL BE COMPACTED TO ASSURE UNIFORM SUPPORT OF THE SLAB, AND EXCEPT WHERE APPROVED, THE FILL DEPTHS SHALL NOT EXCEED 24" FOR CLEAN SAND OR GRAVEL. A 4" THICK BASED COURSE CONSISTING OF CLEAN GRADED SAND OR GRAVEL SHALL BE PLACED. A BASE COURSE IS NOT REQUIRED WHERE A CONCRETE SLAB IS INSTALLED ON WELL—DRAINED OR SAND—GRAVEL MIXTURE SOILS CLASSIFIED AS GROUP 1, ACCORDING TO THE UNITED SOIL CLASSIFICATION SYSTEM IN ACCORDANCE WITH TABLE R405.1 OF THE NCRC, 2018 EDITION.
- 3. PROPERLY DEWATER EXCAVATION PRIOR TO POURING CONCRETE WHEN BOTTOM OF CONCRETE SLAB IS AT OR BELOW WATER TABLE. IF APPLICABLE, 3/4"

   1" DEEP CONTROL JOINTS ARE TO BE SAWED WITHIN 4 TO 12 HOURS OF CONCRETE FINISHING AND WALL LOCATIONS HAVE BEEN MARKED. ADJUST WHERE NECESSARY.
- 4. CONCRETE SHALL CONFORM TO SECTION R402.2 OF THE NCRC, 2018 EDITION. CONCRETE REINFORCING STEEL TO BE ASTM A615 GRADE 60. WELDED WIRE FABRIC TO BE ASTM A185. MAINTAIN A MINIMUM CONCRETE COVER AROUND REINFORCING STEEL OF 3" IN FOOTINGS AND 1 1/2" IN SLABS. FOR POURED CONCRETE WALLS, CONCRETE COVER FOR REINFORCING STEEL MEASURED FROM THE INSIDE FACE OF THE WALL SHALL NOT BE LESS THAN 3/4". CONCRETE COVER FOR REINFORCING STEEL MEASURED FROM THE OUTSIDE FACE OF THE WALL SHALL NOT BE LESS THAN 1 1/2" FOR #5 BARS OR SMALLER, AND NOT LESS THAN 2" FOR #6 BARS OR LARGER.
- 5. MASONRY UNITS TO CONFORM TO ACE 530/ASCE 5/TMS 402. MORTAR SHALL COMFORM TO ASTM C270.
- 6. THE UNSUPPORTED HEIGHT OF MASONRY PIERS SHALL NOT EXCEED FOUR TIMES THEIR LEAST DIMENSION FOR UNFILLED HOLLOW CONCRETE MASONRY UNITS AND TEN TIMES THEIR LEAST DIMENSION FOR SOLID OR SOLID FILLED PIERS. PIERS MAY BE FILLED SOLID WITH CONCRETE OR TYPE M OR S MORTAR. PIERS AND WALLS SHALL BE CAPPED WITH 8" OF SOLID MASONRY.
- 7. THE CENTER OF EACH OF THE PIERS SHALL BEAR IN THE MIDDLE THIRD OF ITS RESPECTIVE FOOTING. EACH GIRDER SHALL BEAR IN THE MIDDLE THIRD OF THE PIERS.
- 8. ALL CONCRETE AND MASONRY FOUNDATION WALLS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE PROVISIONS OF SECTION R404 OF THE NCRC, 2018 EDITION OR IN ACCORDANCE WITH ACI 318, ACI 332, NCMA TR68—A OR ACE 530/ASCE 5/TMS 402. MASONRY FOUNDATION WALLS ARE TO BE REINFORCED PER TABLE R404.1.1(1), R404.1.1(2), R404.1.1(3), OR R404.1.1(4) OF THE NCRC, 2018 EDITION. CONCRETE FOUNDATION WALLS ARE TO BE REINFORCED PER TABLE R404.1.1(5) OF THE NCRC, 2018 EDITION. STEP CONCRETE FOUNDATION WALLS TO 2 x 6 FRAMED WALLS AT 16" O.C. WHERE GRADE PERMITS (UNO).

#### FRAMING NOTES

- 1. ALL FRAMING LUMBER SHALL BE #2 SPF MINIMUM (Fb = 875 PSI, Fv = 375 PSI, E = 1600000 PSI) UNLESS NOTED OTHERWISE (UNO). ALL TREATED LUMBER SHALL BE #2 SYP MINIMUM (Fb = 975 PSI, Fv = 175 PSI, E = 1600000 PSI) UNLESS NOTED OTHERWISE (UNO).
- 2. LAMINATED VENEER LUMBER (LVL) SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: Fb = 2600 PSI, Fv = 285 PSI, E = 1900000 PSI. LAMINATED STRAND LUMBER (LSL) SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: Fb = 2325 PSI, Fv = 310 PSI, E = 1550000 PSI. PARALLEL STRAND LUMBER (PSL) UP TO 7" DEPTH SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: Fc = 2500 PSI, E = 1800000 PSI. PARALLEL STRAND LUMBER (PSL) MORE THAN 7" DEPTH SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: Fc = 2900 PSI, E = 2000000 PSI. INSTALL ALL CONNECTIONS PER MANUFACTURER'S SPECIFICATIONS.
- 3. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING ASTM SPECIFICATIONS

A. W AND WT SHAPES:

B. CHANNELS AND ANGLES:

C. PLATES AND BARS:

D. HOLLOW STRUCTURAL SECTIONS:

E. STEEL PIPE:

ASTM A992

ASTM A36

ASTM A36

ASTM A500 GRADE B

ASTM A503, GRADE B, TYPE E OR S

4. STEEL BEAMS SHALL BE SUPPORTED AT EACH END WITH A MINIMUM BEARING LENGTH OF 3 1/2" AND FULL FLANGE WIDTH (UNO). PROVIDE SOLID BEARING FROM BEAM SUPPORT TO FOUNDATION. BEAMS SHALL BE ATTACHED AT THE BOTTOM FLANGE TO EACH SUPPORT AS FOLLOWS (UNO):

A. WOOD FRAMING

(2) 1/2" DIA. x 4" LONG LAG SCREWS

B. CONCRETE

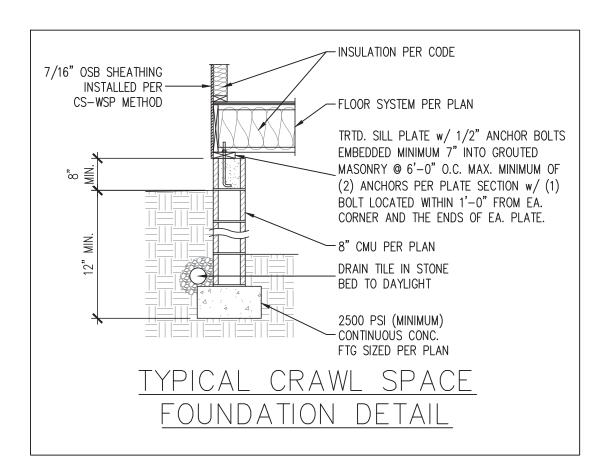
(2) 1/2" DIA. x 4" WEDGE ANCHORS

C. MASONRY (FULLY GROUTED)

(2) 1/2" DIA. x 4" LONG SIMPSON TITEN HD ANCHORS

5. ALL BEAMS, HEADERS, OR GIRDER TRUSSES PARALLEL TO WALL ARE TO BEAR FULLY ON (1) JACK OR (2) STUDS MINIMUM OR THE NUMBER OF JACKS OR STUDS NOTED. ALL BEAMS OR GIRDER TRUSSES PERPENDICULAR TO WALL AND SUPPORTED BY (3) STUDS OR LESS ARE TO HAVE 1 1/2" MINIMUM BEARING (UNO). ALL BEAMS OR GIRDER TRUSSES PERPENDICULAR TO WALL AND SUPPORTED BY MORE THAN (3) STUDS OR OTHER NOTED COLUMN ARE TO BEAR FULLY ON SUPPORT COLUMN FOR ENTIRE WALL DEPTH (UNO). BEAM ENDS THAT BUTT INTO ONE ANOTHER ARE TO EACH BEAR EQUAL LENGTHS

- 6. ALL I—JOIST OR TRUSS LAYOUTS ARE TO BE IN COMPLIANCE WITH THE OVERALL DESIGN SPECIFIED ON THE PLANS. ALL DEVIATIONS ARE TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD PRIOR TO INSTALLATION.
- 7. BRACED WALL PANELS SHALL BE CONSTRUCTED ACCORDING TO THE NORTH CAROLINA RESIDENTIAL CODE 2018 EDITION WALL BRACING CRITERIA. THE AMOUNT, LENGTH, AND LOCATION OF BRACING SHALL COMPLY WITH ALL APPLICABLE TABLES IN SECTION R602.10.





SMITH STRUCTURAL

INGINEERING, PLLC.

1532 CONE AVE. • APEX, NC 27502

) 864-1430 • jsmithstructural@gmail.com

N.C. CERTIFICATE NUMBER: P-2212

(919)

TERALYN II - GARAGE RIGHT TRIANGLE HOME PROS, LLC

REVISIONS:								
DE AURI DIV. KAA HOME DECIONO INO								

DRAWN BY: K&A HOME DESIGNS, INC.

ENGINEERED BY: J. SMITH

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

DATE: **DECEMBER 4, 2020** 

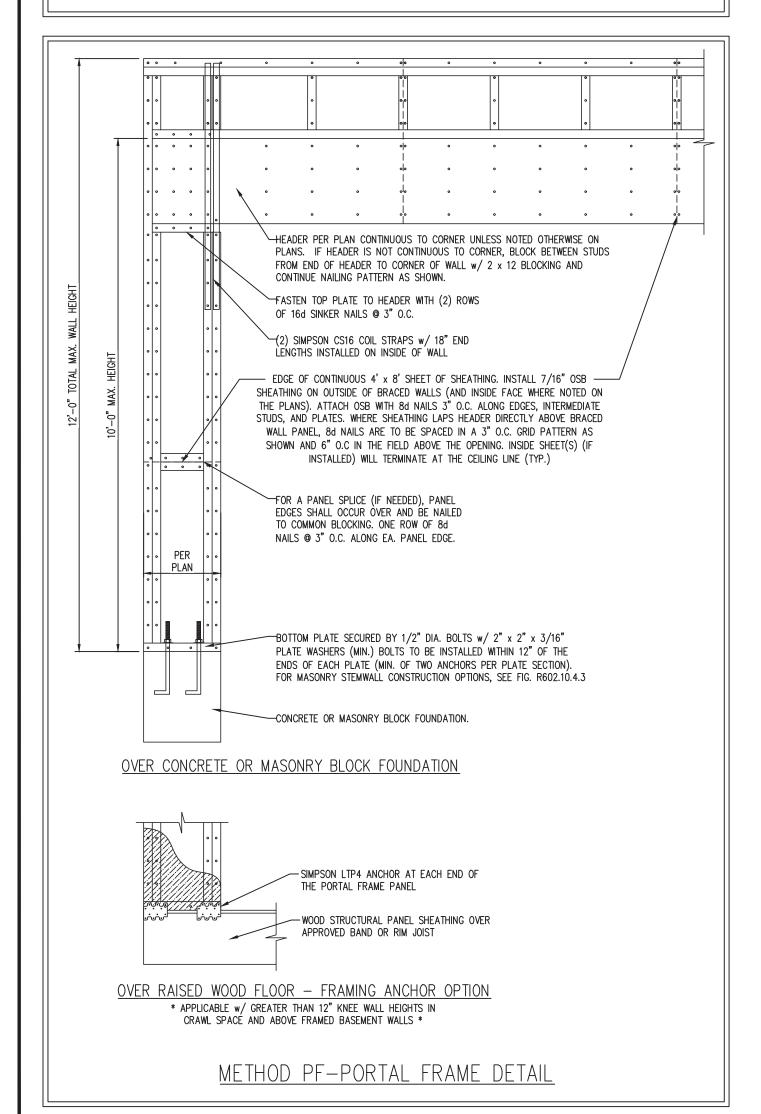
SHEET: 5 OF: 6

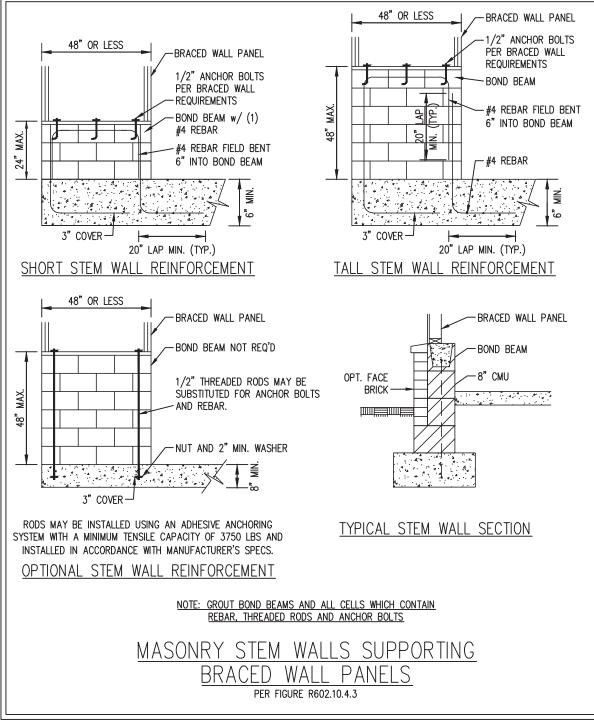
S-5
STRUCTURAL NOTES

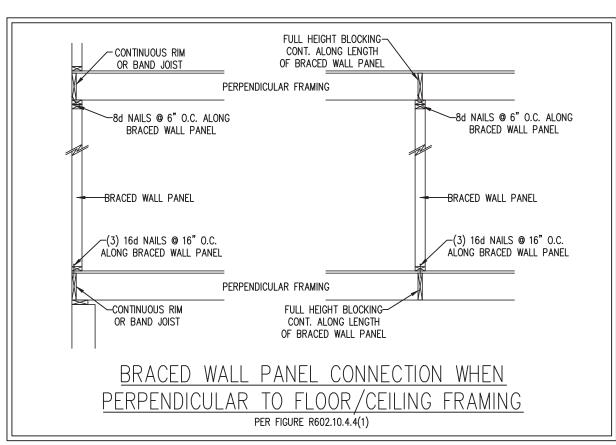
AND FOUNDATION
DETAILS

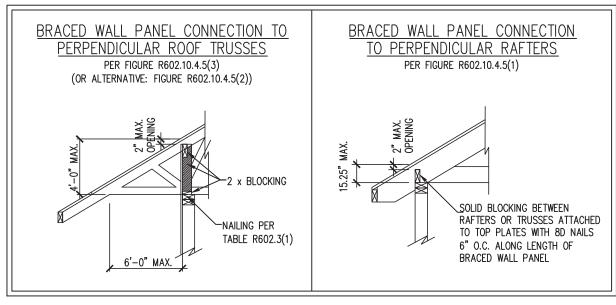
#### GENERAL WALL BRACING NOTES:

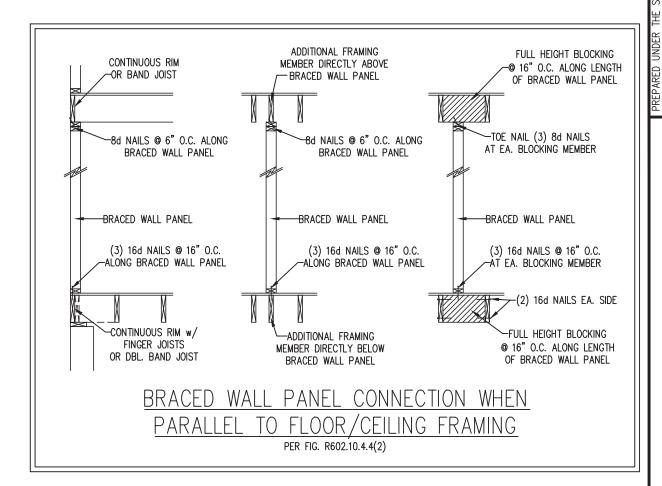
- 1. WALL BRACING DESIGNED IN ACCORDANCE WITH CHAPTER 6 OF THE 2018 NC RESIDENTIAL BUILDING CODE (NCRC). TABLES AND FIGURES REFERENCED ARE FROM THE 2018 NCRC.
- 2. SEE THIS SHEET FOR GENERAL DETAILS. REFER TO THE 2018 NCRC FOR ADDITIONAL INFORMATION AS NEEDED.
- 3. SEE STRUCTURAL SHEETS FOR BRACED WALL LOCATIONS, DIMENSIONS, HOLD DOWN TYPE AND LOCATIONS, BRACED WALL LINE KEY WITH WALL DESIGN SUMMARY OF REQUIRED/PROVIDED TOTALS FOR EACH WALL LINE AND ANY SPECIAL NOTES OR REQUIREMENTS.
- 4. ALL EXTERIOR WALLS ARE TO BE SHEATHED WITH CS-WSP IN ACCORDANCE WITH SECTION R602.10.3 UNLESS NOTED OTHERWISE.
  5. ALL EXTERIOR AND INTERIOR WALLS TO HAVE 1/2" GYPSUM INSTALLED. WHEN NOT USING METHOD "GB", GYPSUM TO BE FASTENED PER TABLE
- R702.3.5. METHOD GB TO BE FASTENED PER TABLE R602.10.1
  6. CS-WSP REFERS TO THE "CONTINUOUS SHEATHING WOOD STRUCTURAL PANELS" WALL BRACING METHOD. 7/16" OSB SHEATHING IS TO BE
- INSTALLED ON ALL EXTERIOR WALLS ATTACHED w/ 6d COMMON NAILS OR 8d (2 1/2" LONG x 0.113" DIAMETER) NAILS SPACED 6" O.C. ALONG PANEL EDGES AND 12" O.C. IN THE FIELD (U.N.O.).
- 7. GB REFERS TO THE "GYPSUM BOARD" WALL BRACING METHOD. 1/2" (MIN.) GYPSUM WALL BOARD IS TO BE INSTALLED ON BOTH SIDES OF THE BRACED WALL FASTENED WITH 1 1/4" SCREWS OR 1 5/8" NAILS SPACED 7" O.C. ALONG PANEL EDGES INCLUDING TOP AND BOTTOM PLATES AND INTERMEDIATE SUPPORTS (U.N.O.). VERIFY ALL FASTENER OPTIONS FOR 1/2" AND 5/8" GYPSUM PRIOR TO CONSTRUCTION. FOR INTERIOR FASTENER OPTIONS SEE TABLE R702.3.5. FOR EXTERIOR FASTENER OPTIONS SEE TABLE R602.3(1). EXTERIOR GB TO BE INSTALLED VERTICALLY.
- 8. REQUIRED BRACED WALL LENGTH FOR EACH SIDE OF THE CIRCUMSCRIBED RECTANGLE ARE INTERPOLATED PER TABLE R602.10.3. METHOD CS-WSP CONTRIBUTES ITS ACTUAL LENGTH, METHOD GB CONTRIBUTES .5 ITS ACTUAL LENGTH, AND METHOD PF CONTRIBUTES 1.5 TIMES ITS ACTUAL LENGTH.

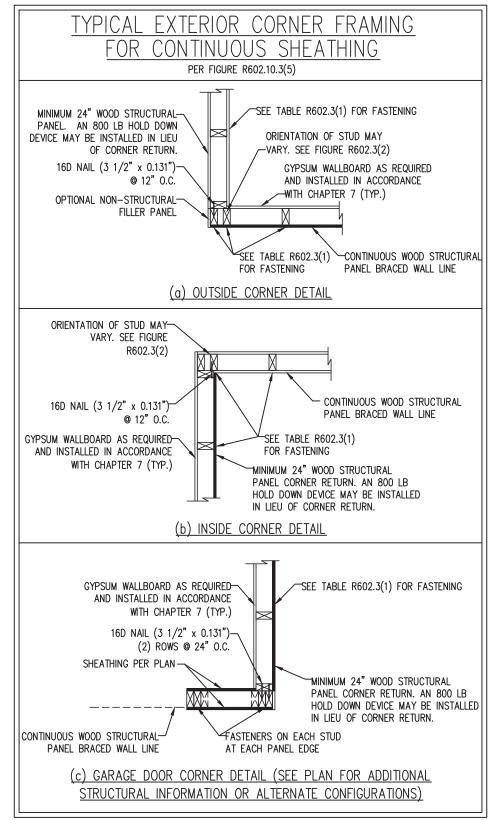














SMITH STRUCTURAL

INGINEERING, PLLC.

1532 CONE AVE. • APEX, NC 27502

) 864-1430 • jsmithstructural@gmail.com

N.C. CERTIFICATE NUMBER: P-2212

- GARAGE RIGHT EN HOME PROS, LLC (919) 8

**TERALYN** 

TRIANGLE

REVISIONS:

DRAWN BY: K&A HOME DESIGNS, INC.

ENGINEERED BY: J. SMITH

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

DATE: **DECEMBER 4, 2020** 

SHEET: 6 OF: 6

S-6
WALL BRACING
DETAILS