DESIGN LOADS	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
CHADDRAILS AND HANDRAILS	200	<u>-</u>

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 (SIYP) TREATED IN ACCORDANCE WITH AWPA C22 WITH THE FOLLOWING DESIGN PROPERTIES: The 160 PG IS 1" - 169 PG IS 1" - 168 PG IS 1" - 169 PG IS

3. ENGINEERED WOOD BEAMS SHALL BE LAMINATED VENEER LUMBER (LVL.) OR PARALLEL STRAND LUMBER (PSL.) WITH THE

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. POURED CONCRETE SHALL HAVE A MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF 3000 PSI AT 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.

10. ALLOWABLE SOIL BEARING PRESSURE 2000 PSF.

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.

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

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

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

EXPOSURE B ROOF VALUES BOTH POSITIVE AND NEGATIVE SHALL BE DESIGNED BASED ON ROOF PTICHES AS FOLLOWS: 454 PSF FOR 0:12 TO 2.25:12, 34.3 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

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: 0.40. MIN. INSULATION R VALUES: CEILING R-30, WALLS R-13, FLOORS R-19, BASEMENT WALLS R-7, SLAB PERIMETER R-0, CRAWL SPACE WALLS R-7.

 $\begin{array}{l} \underline{\text{TABLE N1102.1-ZONE 8-MAX, GLAZING U FACTOR: 0.40.}} \ \, \underline{\text{MIN. INSULATION R VALUES: CEILING R-30, WALLS R-13,}} \\ \underline{\text{FLOORS }} \ \, \underline{\text{R-19, BASEMENT WALLS }} \ \, \underline{\text{R-18, SLAB PERIMETER }} \ \, \underline{\text{R-16, CEILING R-30, WALLS }} \ \, \underline{\text{R-10, CEILING R-30, WALLS }} \ \, \underline{\text{R-10$ 

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 THI SHALL BE CONTINUOUS TO THE FOUNDATION OR TO OTHER STRUCTURAL ELEMENTS.

7. WALL BRACING REQUIREMENTS SHALL BE IN ACCORDANCE WITH SECTION R802.10 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 60° MAXIMUM SPAN AND 6 x 4 x 5/16 FOR SPANS GREATER THAN 60°.

9. BRICK LINTELS AT SLOPED AREAS SHALL BE 4 x 3 1/2 x 1/4 STEEL ANGLE WITH 164 MALS IN 316° HOLES IN 4° ANGLE LEG AT 12° 0.4. TO DOUBLE RAFTER, WHEN THE SLOPE EXCREDS 4:12 A MINIMUM OF 3 x 3 x 1/4 PLATES SHALL BE WELDED AT 24° 0.0. ALONG THE STEEL ANGLE.

# Prince Place Lot 02

	ATTIC VENT SCHEDULE								
	ELEVATION								
MAIN	MAIN HOUSE SQ FTG 1500 AT / NEAR RIDGE AT / NEAR EAVE						AR EAVE		
VENT TYPE	SQ. FT. REQUIRED		SQ. FT. PERCENT OF TOTAL		POT LARGE (IQ. PT. EACH)	POT SMALL MILEACH	RIDGE VENT (RQ. FT. PER US)	EAVE VENT (SQ. N. SACH)	CONT. VENT
70411112	RAN			SUPPLIED	0.4236	0.2778	0.125	0.1944	0.0625
					_	T -			
RIDGE VENT	2.00	2.50	2.50	50.00	0	0	20.00		
SOFFIT VENTS	3.00	2.50	2.50	50.00				0	40.00
TOTAL (MIN)	5.00	5.00	5.00	100.00	POT YENTS MAY BE REQUIRED IF THERE IS INSUFFICIENT RIDGE AVAILABLE				
* SCHEDULE HAS BEEN CALCULATED ASSUMING EAVE VENTILATION AT 50-80% OF TOTAL AND RIDGE AT 40-60% OF TOTAL REQUIRED VENTILATION									

	, (IXE   OO  )	,0_
	HEATED S.F.	UNHEATED \$.F.
FIRST FLOOR	1043	0
SECOND FLOOR	1383	0
2 CAR GARAGE	0	445
FRONT PORCH	0	107
DECK	0	144
TOTAL	2426	696
	OPTIONS	
	HEATED S.F.	UNHEATED S.F.
1 CAR GARAGE	0	288
SCREEN PORCH	0	144
DECK W/SCREEN PORCH	0	132

SQUARE FOOTAGE

	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						

# TABLE N1102.1 CLIMATE ZONES 3-5

	ABBREVIATIONS	
CONC CONCRETE CONTROLLED CONTROLL	CONT DBL J J DSP EA FL PT FTG HGR LVL NTS OC SP SC SC SP TJ TYP	CONTINUOUS DOUBLE SUD POCKET BOULE SUD POCKET EACH FLAT PLATE FOOTING HANGER LAMINATED VENEER LUMBER HANGER PARALLEL STRAND LUMBER FRESSURE TRATED STUD POCKET TRIPLE JOIST TYPICAL

CLIMATE ZONES	FENESTRATION U-FACTOR 6	SKYLIGHT <sup>b</sup> U-FACTOR	GLAZED FEMESTRATION SHGC by	CEILING <sup>k</sup> R-Value	WCCO Framed Wall R-Value	MASS Wall R-Value i	FLOOR R-VALUE	BASEMENT C Wall R-Value	SLAB <sup>d</sup> 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 <i>5</i> h	5/10	19	10/13	10 <sup>d</sup>	10/13
5	0.35	0.60	NR	38 OR 30 CONT j	19 OR 13+5 OR 15+34-h	13/17	30 9	10/13	10 <sup>d</sup>	10/13

COVER, STACE THAT.

FOR MICHICITHIC SLASS, INSULATION SHALL BE APPLED FROM THE INSPECTION GAP DOMINIARD TO THE BOTTOM OF THE FOOTING OR A MAXIMUM OF 18 INCHES BELOW GRADE,
WHICHEVER IS LESS, FOR FLOATING SLASS, INSULATION SHALL EXTEND TO THE BOTTOM OF THE FOLINGATION WHAL OR 24 INCHES, MAIDEVER'S ILESS, R-5 SHALL BE ADDIED TO THE MINICHESIS LISES FOR FICKNING SIASE, RISALATION SHALL EXTED TO THE ROTTON OF THE FOUNCHTON WILL OR IN NOVES, MINICHESIS IS LESS, AS SHALL BE ADDED TO THE ROCKINES DAVE DES VALUE FOR HEATED SAVE AN HISHER LISES SATTS COMPRESSED AND INSTALLED IN A NOMINAL 26 COMITY S DESIRED TO COMPLY. FIBERBLASS SATTS RATED AS 90 OR HEATER COMPRESSED AND INSTALLED IN A SAM WILL SIXT OF SERVED TO COMPLY.

A 24 WALLS NOT DEBEDD TO COMPY.

1. BASEBET MUL RELATION STOTEGATED TO COMPY.

2. BASEBET MUL RELATION STOTEGATED IN MARKHABAD LOCKTION AS DETAIDS OF FORCE OF 1992 (1 Mo 2) AND TABLE IN 1992.

5. RESALATION STOTEGATED THE TERMING COUNTY, AT HIMMAN.

1. "THE FEMBLE TO COMPY SEALATION HILLS AS RESALATED SHEATHING, 5-9 MENT AS IN-15 CANTY SEALATION HILLS AS RESALATED SHEATHING. FOR THE PRESCRIPT OF LIKE PERMING COUNTY, AS THE MENT AS SHEATHING, 5-9 MENT AS THE PRESCRIPT OF THE STRUCTURE SHEATHING COVERS AS THE PRESCRIPT OF THE STRUCTURE SHEATHING FOR THE STRUCTURE SHEATHING COVERS AS THE PRESCRIPT OF THE STRUCTURE SHEATHING SHEATHING THE PRESCRIPT OF THE STRUCTURE SHEATHING COVERS AS THE PRESCRIPT OF THE STRUCTURE SHEATHING THE PRESCRIPT OF THE STRUCTURE SHEATHING THE SHEATHING THE PRESCRIPT OF THE STRUCTURE SHEATHING THE SHEATHING T

CLADDING POSITIVE & NEGATIVE PRESSURE = 21 PSF

CLADDING POSITIVE & NEGATIVE PRESSURE = 34.8 PSF

2 STORY = 19'-0"
CLADDING POSITIVE & NEGATIVE PRESSURE = 34.8 PSF

ANCHOR BOLTS INSTALL ANCHOR BOLTS, NUTS, AND WASHERS PER CODE AT ALL EXTERIOR WALL
TREATED PLATES AND AT INTERIOR BEARING WALL TREATED PLATES ON SLAB FOUNDATIONS. TO BE A MINIMUM OF 6' O.C. AND WITHIN 12" FROM THE ENDS OF EACH PLATE.

DESIGN PRESSURES
MINIMUM RATING: 25 PSF

MI WINDOWS 3500 SERIES

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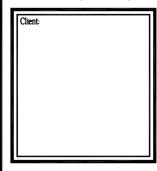
Drawn By: RWB Checked By: RWB Date: 02-02-2022 Revision No. Revision Date

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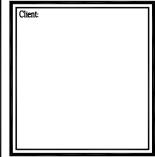
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Revision No.	Revision Date

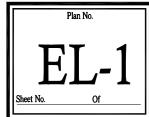
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Title ELEVATIONS





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



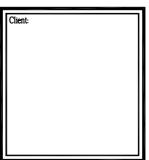
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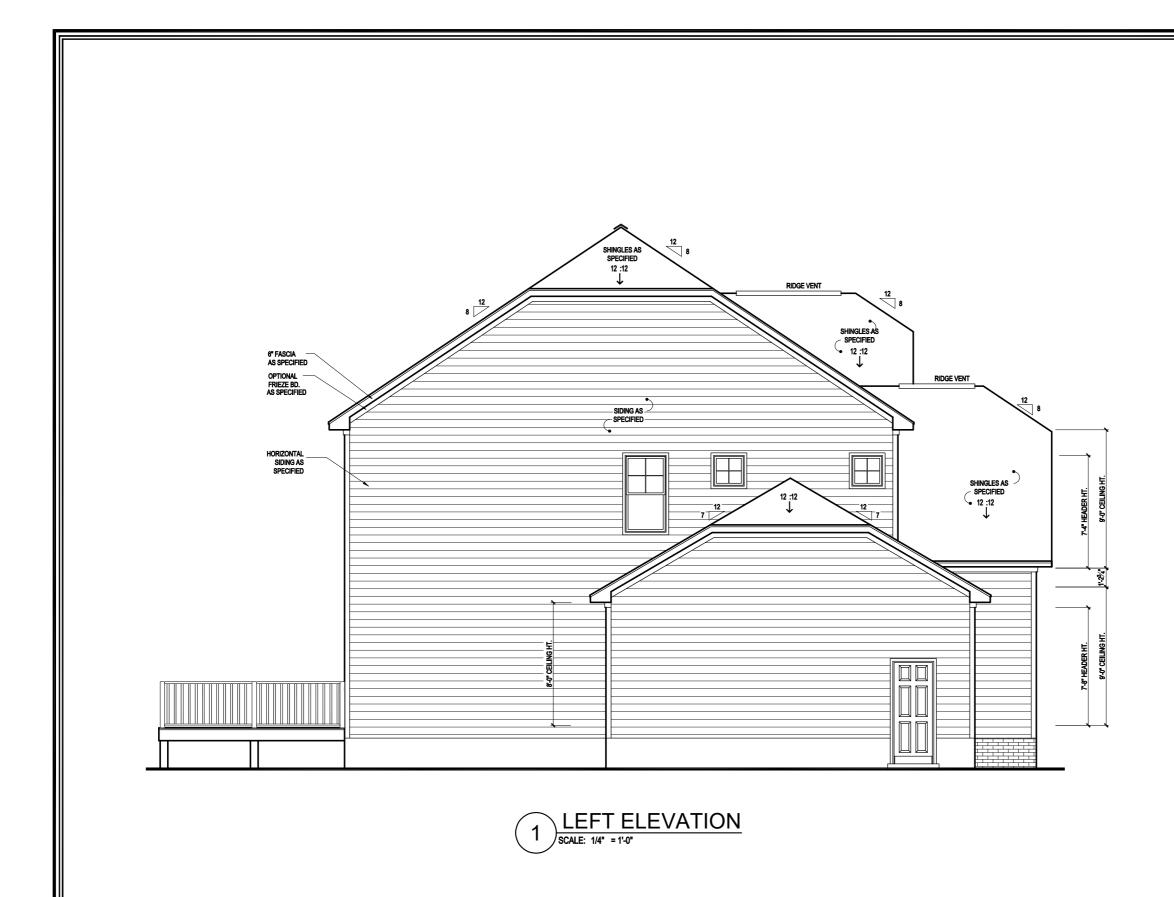
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**ELEVATIONS** 







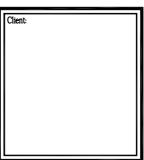
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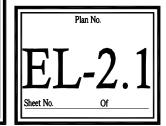
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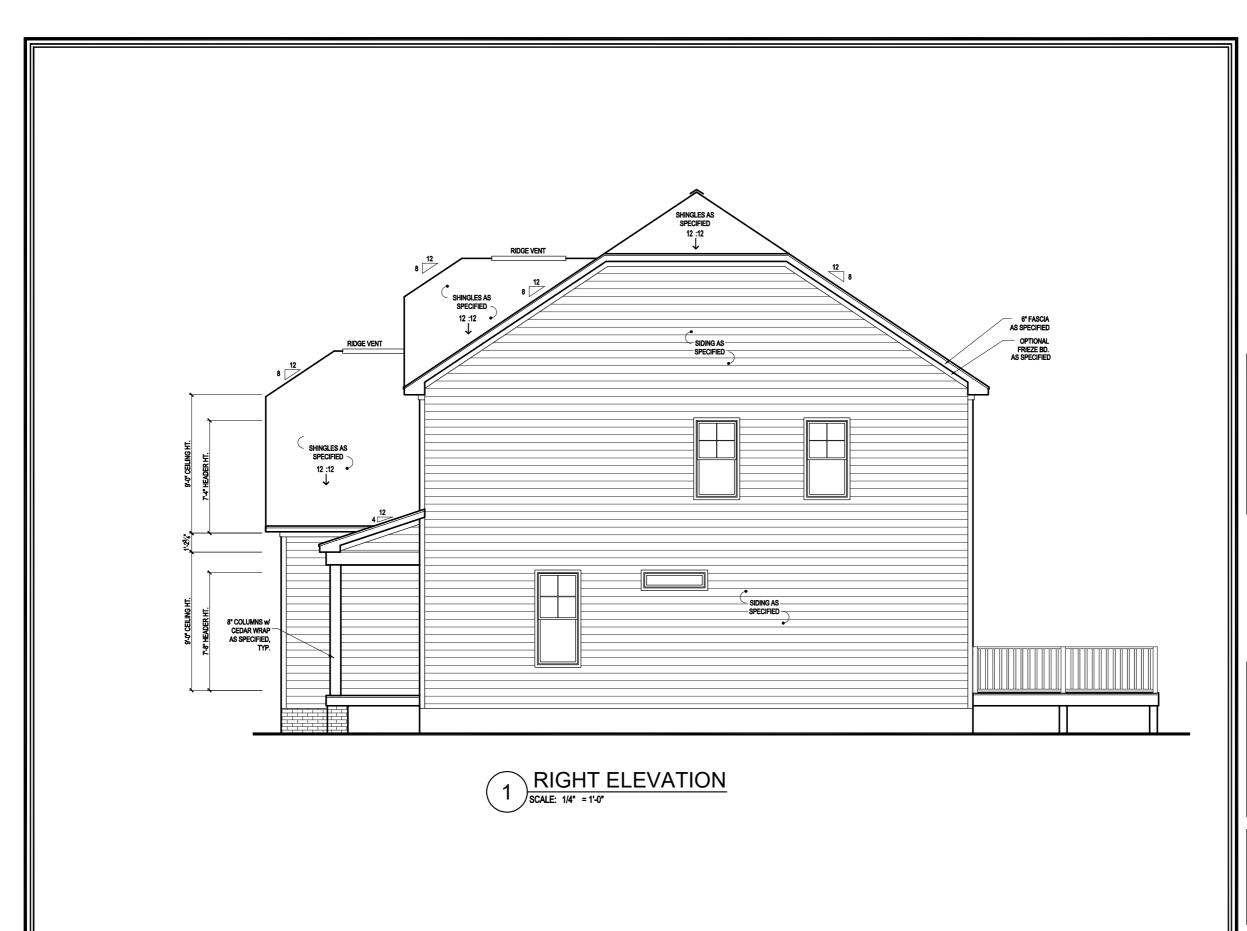
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OPTIONAL 3RD
CAR GARAGE
ELEVATION







Drawn By: RWB

Checked By: RWB

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Title.

ELEVATIONS

Plan No.

EL-3

Sheet No. Of

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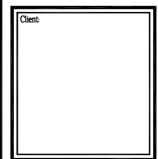
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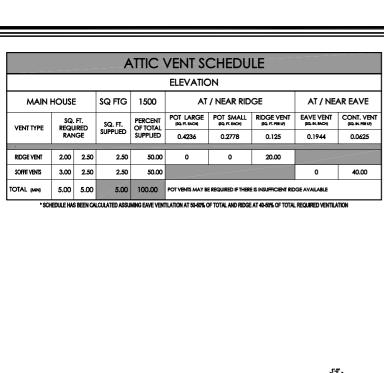
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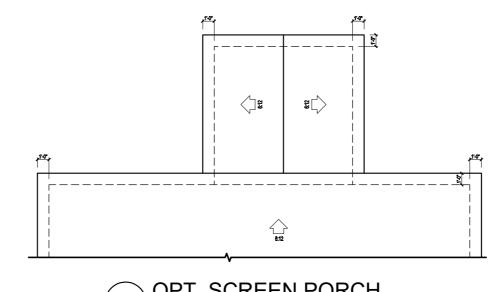
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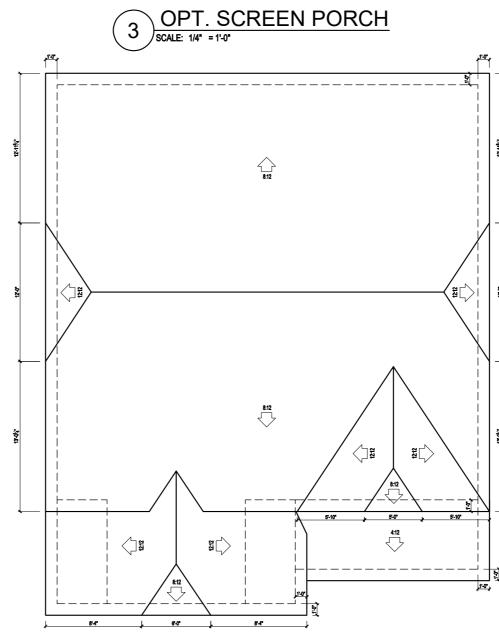


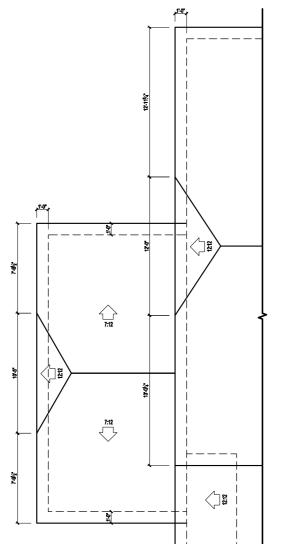
**ELEVATIONS** 











OPT. 3RD CAR GARAGE

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





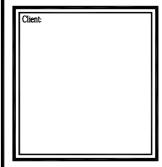
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Checked By: RV	Checked By: RWB						
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Revision No.	Revision Date						
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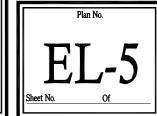
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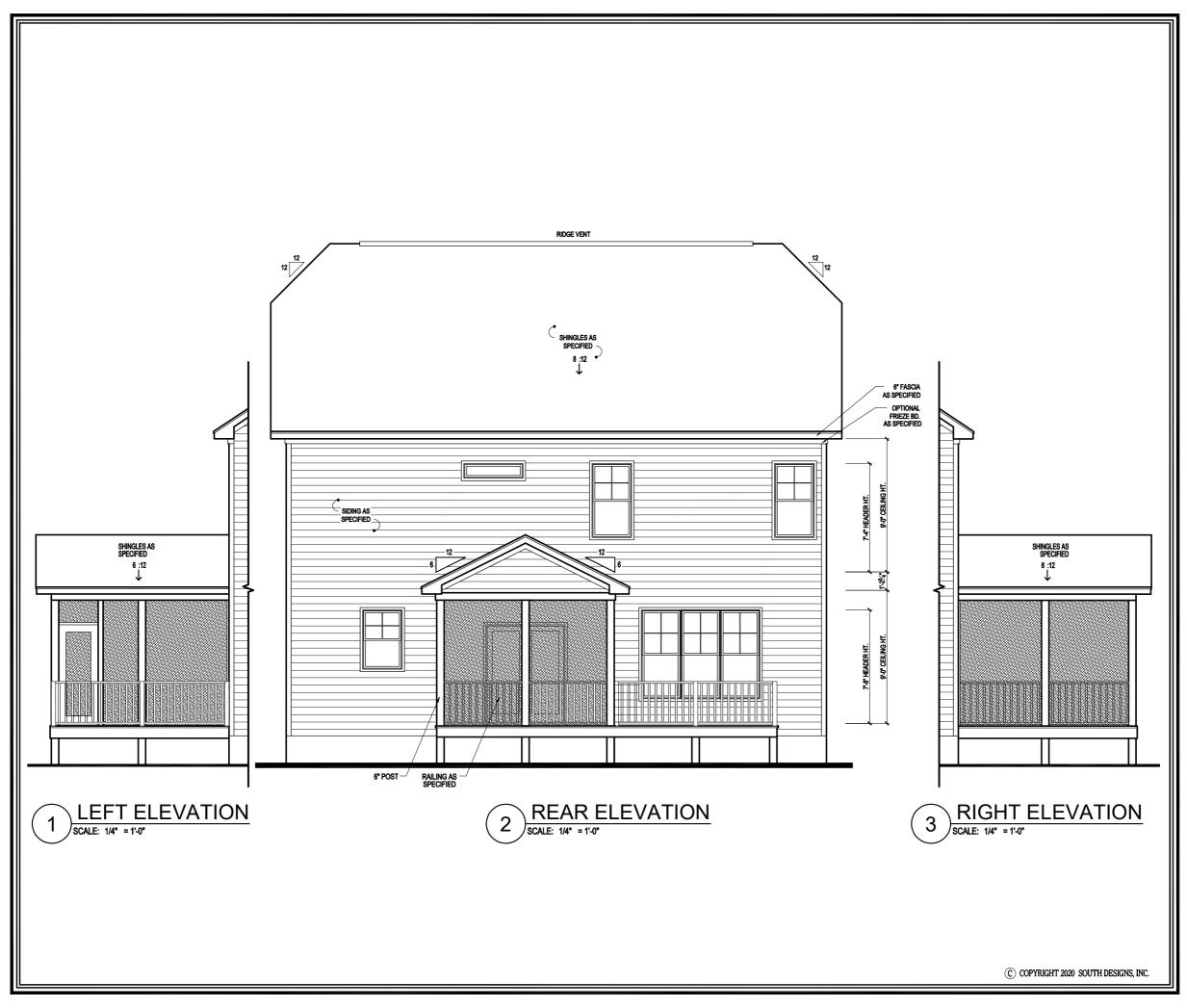
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ROOF PLAN



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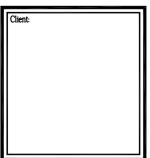
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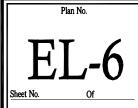
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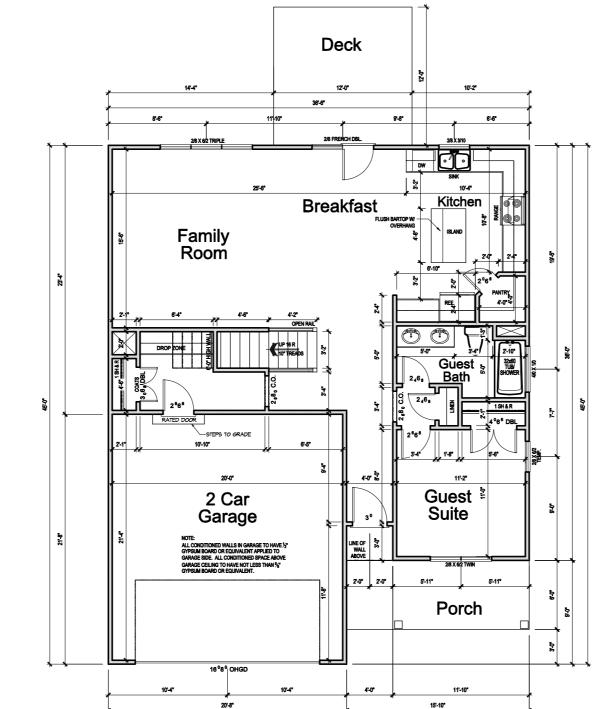
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OPTIONAL SCREEN PORCH







36'-6"

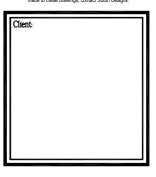


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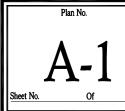
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FIRST FLOOR PLAN



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WALLS: ALL WALLS ARE DRAWN 4* THICK U.N.O. ANGLED WALL ARE DRAWN @45* U.N.O.
SMOKE DETECTORS:
LOCATION AND NUMBER OF DETECTORS SHALL CONFORM TO NEC.
EGRESS:
ALL BEDROOMS MUST HAVE AT LEAST ONE WINDOW WHICH CONFORMS TO CURRENT LOCAL RESIDENTIAL BLDG CODE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY CHOSEN WINDOWS MEET EGRESS REQUIREMENTS AS MANUFATURERS VARY.
ATTIC ACCESS: MIN. ATTIC ACCESS SHALL BE PROVIDED BY BUILDER AND LOCATED ON SITE.

**GENERAL NOTES** 

WALL/CEILING HGT.

WALL ACEILING HGT.

WALL ACEILING HGT.

WALL AND CEILING HGT.

WALL SIZE.

KNEE WALL HEIGHT LABELS

FOR WALLS UNDER RAFTERS

ASSUME AN EXTRA 2\* FOR

FURRING (IN HEATED SPACES)

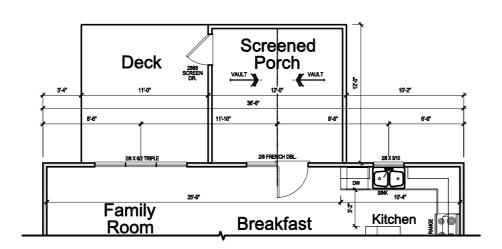
FOR INSULATION. THE WALL

HEIGHT REFERS TO THE HGT.

FROM THE FLOOR DECKING TO

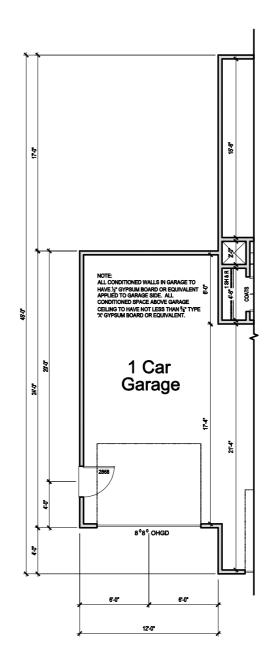
THE BOTTOM OF THE FURRING.

GUARDS ON ALL HANDRAILS SHALL BE PLACED SO THAT A SPHERE OF 4" CANNOT PASS THROUGH PER NC 2018 RESIDENTIAL CODE SEC. R312.1



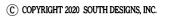
OPT. SCREEN PORCH

SCALE: 3/16" = 1'-0"



OPT. 3 CAR FRONT LOAD GARAGE

SCALE: 3/16" = 1'-0"





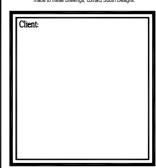
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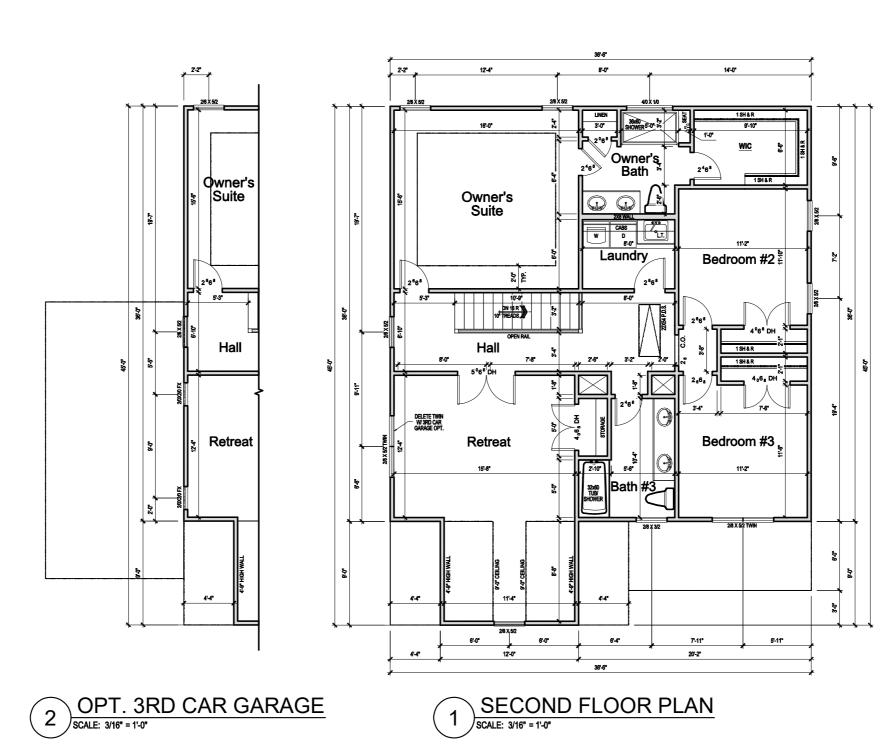


FIRST FLOOR PLAN OPTIONS

Plan No.

A-1.1

Sheet No. Of



GENERAL NOTES

SMOKE DETECTORS:

ELGRESS:
ALL BEDROOMS MUST HAVE
AT LEAST ONE WINDOW WHICH
CONFORMS TO CURRENT LOCAL
RESIDENTIAL BLDG CODE. IT IS THE
CONTRACTOR'S RESPONSIBILITY
TO VERIFY CHOSEN WINDOWS
MEET EGRESS REQUIREMENTS
AS MANUFATURERS VARY.

ATTIC ACCESS:
MIN. ATTIC ACCESS SHALL BE
PROVIDED BY BUILDER AND
LOCATED ON SITE.

WALL/CEILING HGT.

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:

A. WINDOW IS FIXED UNIT
B. OPENING DOES NOT ALLOW PASSAGE
4\*d SPHERE
C. WINDOW IS EQUIPPED WITH FALL
PREVENTION DOPICE PER NORC R8122
THROUGH R8124
D. WINDOW IS EQUIPPED WITH AN APPROVED
LIMITING DEVICE

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

EGRESS:



Drawn By: RWB

Checked By: RWB

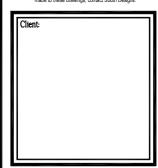
Date: 02-02-2022

Revision No. Revision Date

### Designer Signature

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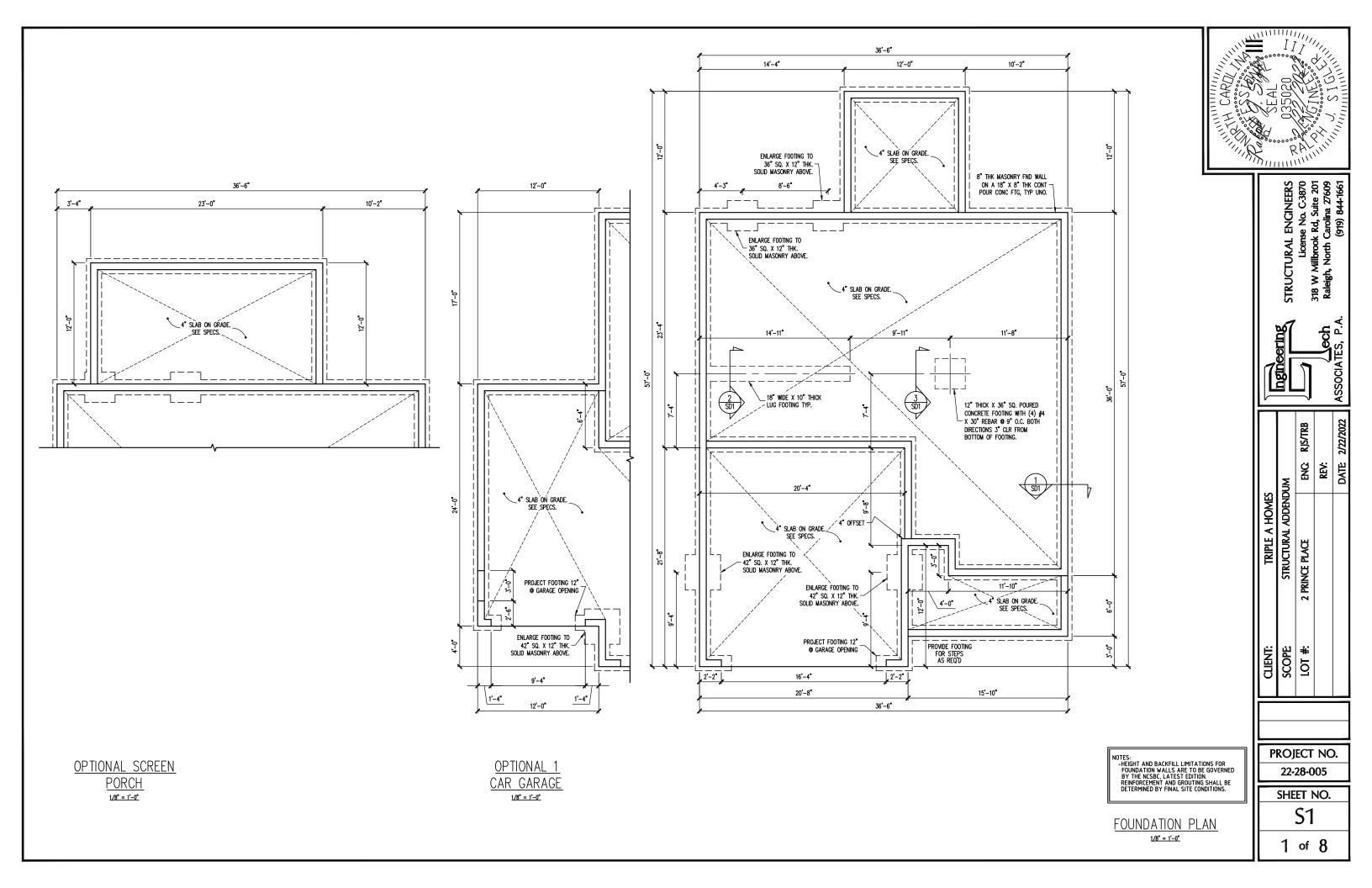


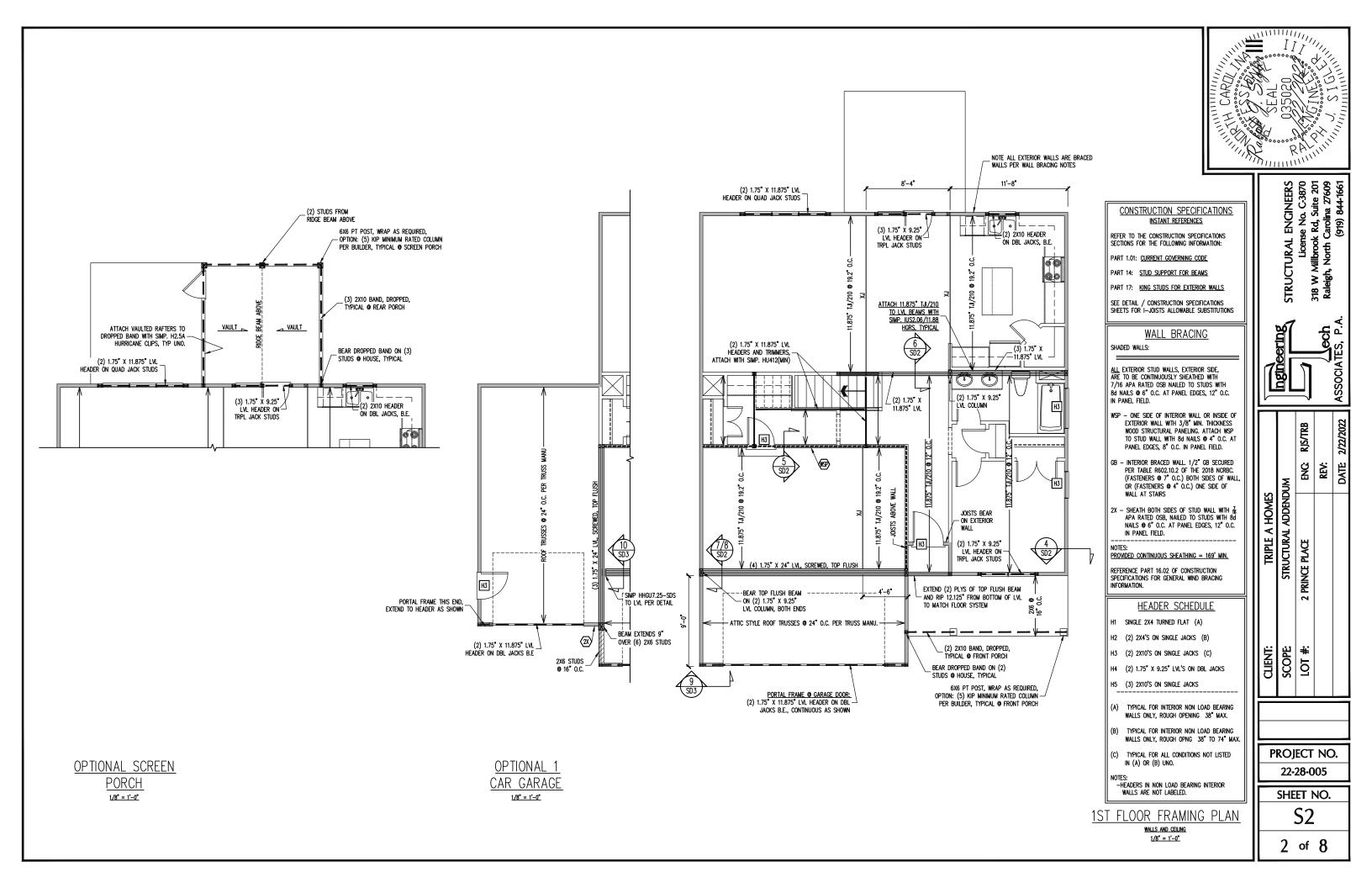
SECOND FLOOR PLAN

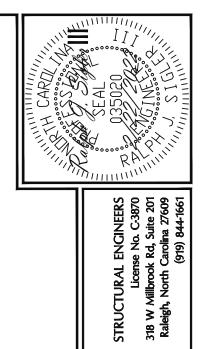
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A-2
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(2) 2X10 HEADER ON DBL JACKS, B.E. Н3 F------НЗ Н3 FIELD LOCATE P.D.S. \_ BETWEEN TRUSSES \_ (2) PLY TRUSS GIRDER PER TRUSS MANU H4 \_ SIMP LGT2, BOTH SIDES OF TRUSS GIRDER Н3 NOTE ALL EXTERIOR GABLE END WALLS - ARE CONTINUOUSLY SHEATHED BRACED WALLS PER WALL BRACING NOTES

### 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 80 NAILS © 6" O.C. AT PANEL EDGES, 12" O.C.

PROVIDED CONTINUOUS SHEATHING = 145' 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.

# 2ND FLOOR FRAMING PLAN

WALLS AND CEILING <u>1/8" = 1'-0"</u>

PROJECT NO. 22-28-005

N C

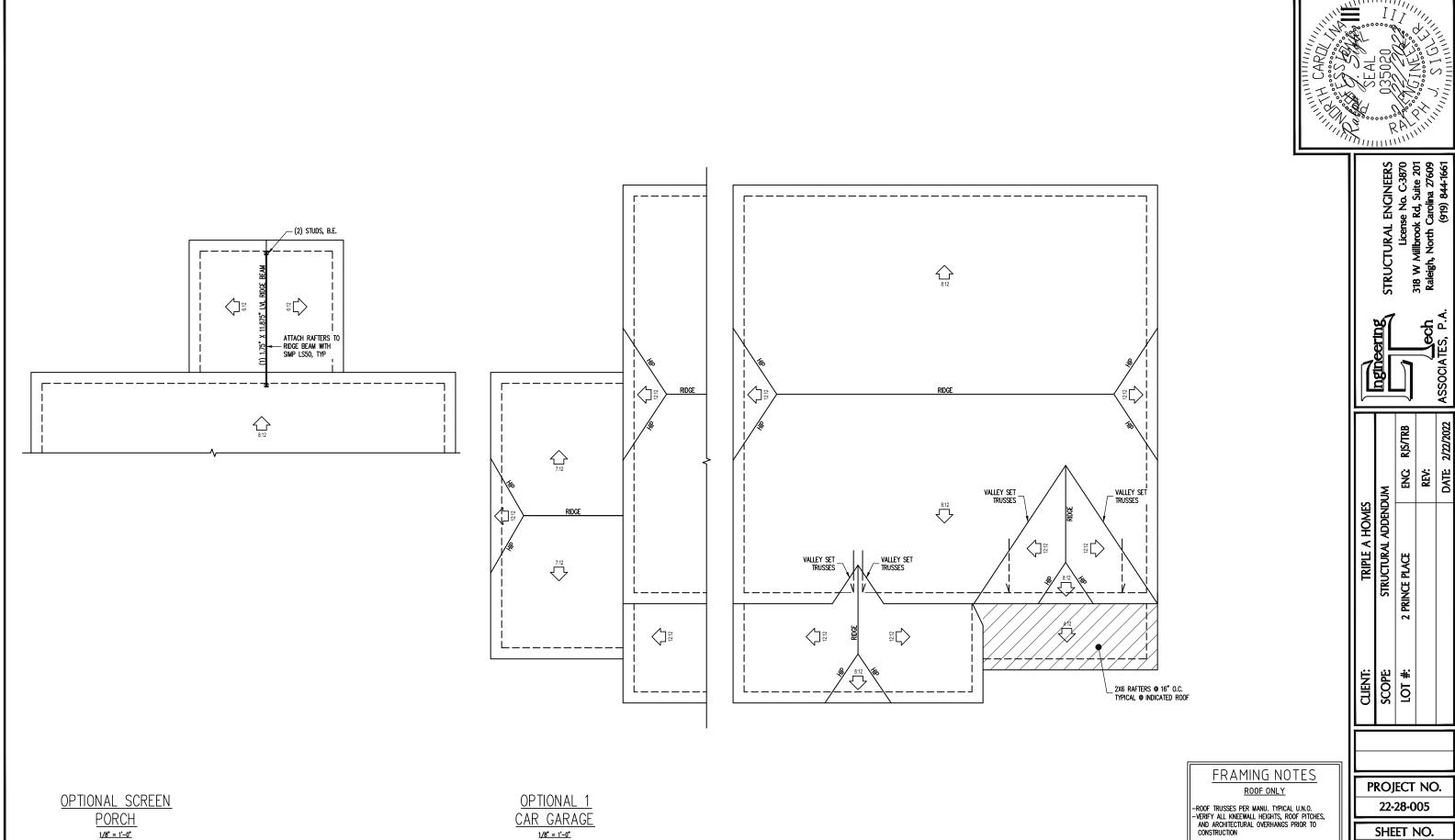
PRINCE PLACE

TRIPLE A HOMES STRUCTURAL ADDENDUM

CLIENT: SCOPE LOT #:

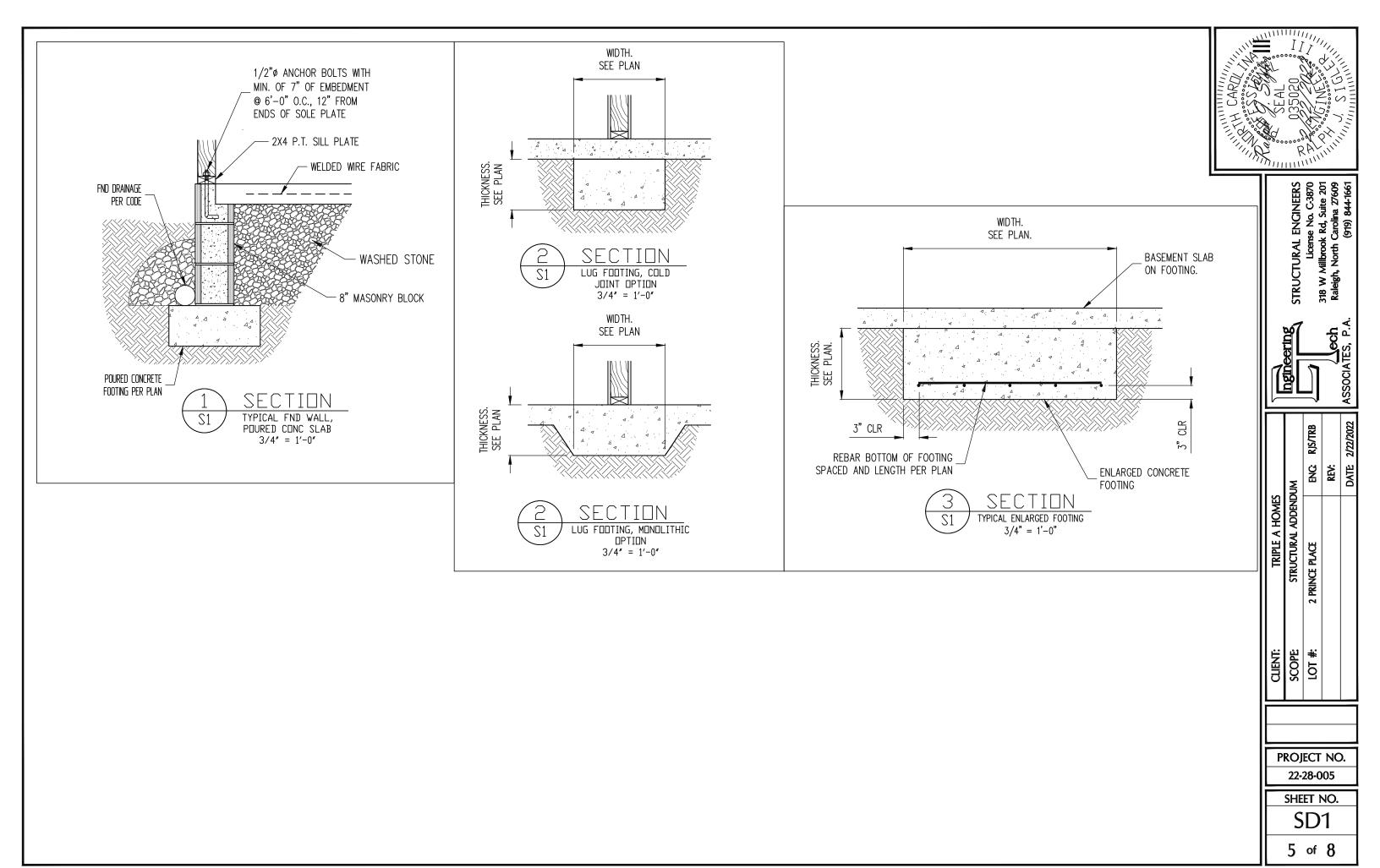
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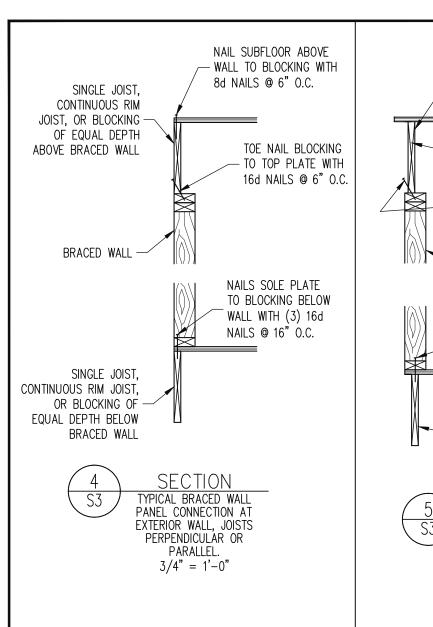
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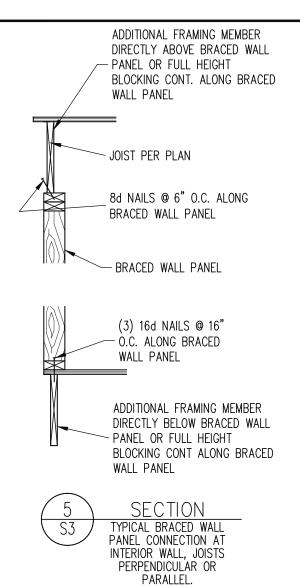


**S4** 

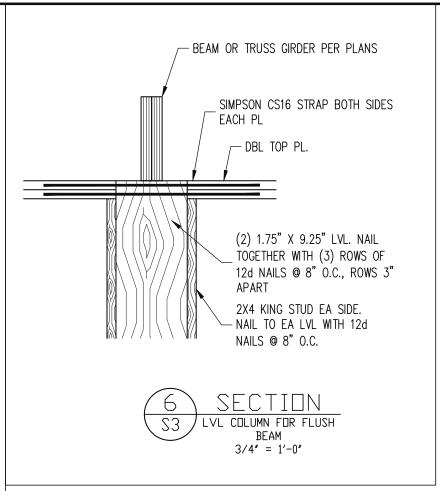
ROOF FRAMING PLAN 1/8" = 1'-0"

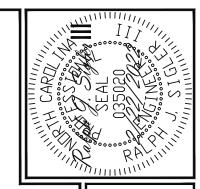






3/4" = 1'-0"





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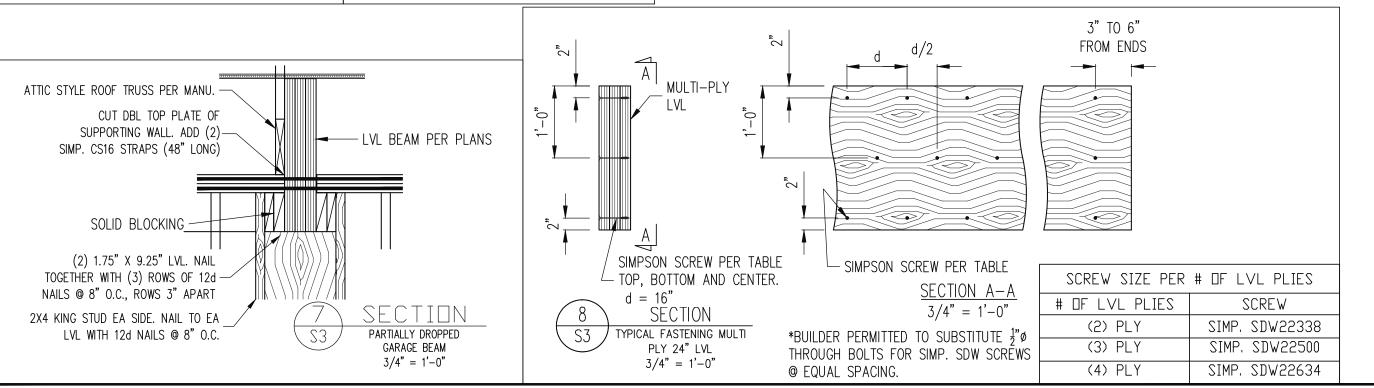
SCOPE STRUCTURAL ADDENDUM

LOT #: 2 PRINCE PLACE ENG RIS/TRB

REV:

PROJECT NO. 22-28-005

SHEET NO.



(2) CONT. 2X TOP PLATES, EXTEND EACH END INTO ADJACENT WALL. NAIL SPLICES WITH 8-16d NAILS PER SPLICE/LAP.

CONT. 2X PLATE WITH 10d NAILS AT 16" O.C. INTO HEADER/BEAM

7/16" O.S.B. OR 15/32" PLYWOOD EXTERIOR WALL SHEATHING AT UNSHADED AREAS (BEAM, INFILL WALL ABOVE BEAM, AND CENTER WALL). NAIL SHEATHING TO ALL SUPPORTS (STUDS, PLATES, BLOCKING, ETC.) WITH 8d NAILS AT 6" O.C. AT SHEET EDGES AND 12" O.C. IN THE FIELD.

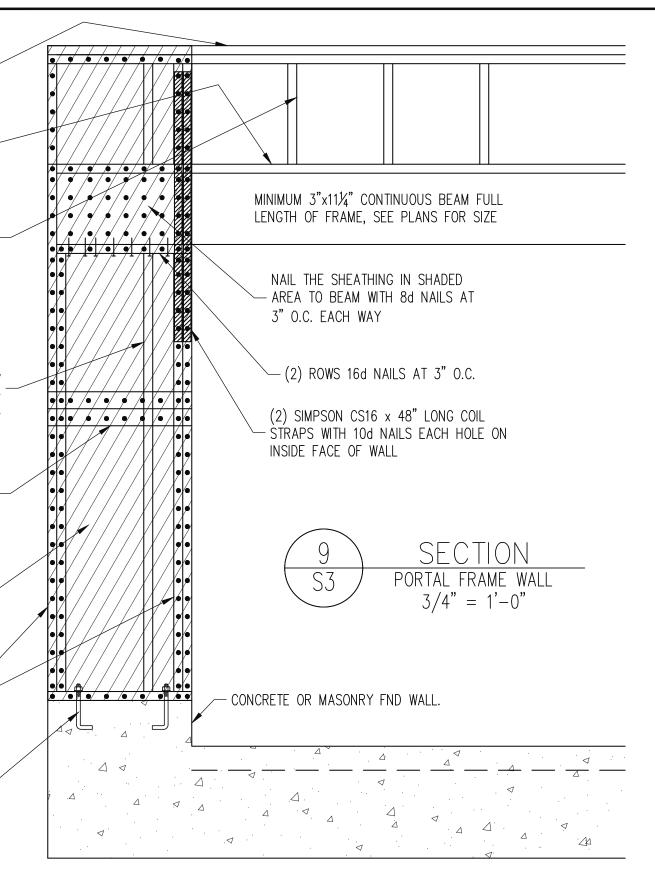
WHERE FULL HEIGHT PANEL WIDTH EXCEEDS 16", PROVIDE ADDITIONAL STUDS AT 16" O.C. NAIL SHEATHING TO ALL STUDS WITH 8d NAILS AT 3" O.C.

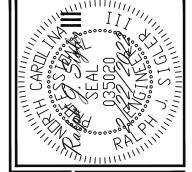
FOR A PANEL SPLICE (IF NEEDED), PANEL EDGES SHALL OCCUR OVER AND BE NAILED TO COMMON BLOCKING AND OCCUR WITHIN 24" OF WALL HEIGHT. ONE ROW OF 3" O.C. NAILING IS REQUIRED IN EACH PANEL EDGE.

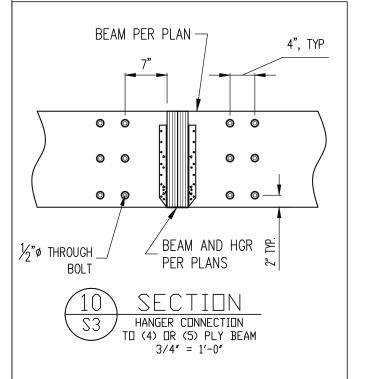
7/16" O.S.B. OR 15/32" PLYWOOD EXTERIOR WALL SHEATHING. AT SHADED AREAS NAIL SHEATHING TO ALL SUPPORTS (STUDS, PLATES, BLOCKING, ETC.) WITH 8d NAILS AT 3" O.C.

(2)2x STUD MIN. AT START AND END OF WALL SEGMENTS EACH SIDE OF OPENING.
SEE PLANS FOR ADDITIONAL STUDS

2x4 P.T. PLATE WITH TWO 1/2" DIA x 7" EMBED ANCHOR BOLTS WITH A 3/16"x2"x2" PLATE WASHERS OR ADDITIONAL HOLDOWN PER PLANS







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Ingineering Cech ASSOCIATES, P.A.

	Wn	ENG RJS/TRB	REV:	DATE 1/10/1000
TRIPLE A HOMES	STRUCTURAL ADDENDUM	2 PRINCE PLACE		
CLIENT:	SCOPE	LOT #:		

PROJECT NO. 22-28-005

SHEET NO.

# CONSTRUCTION SPECIFICATIONS

#### PART 1: GENERAL

- 1.01 CONSTRUCTION SHALL MEET THE REQUIREMENTS OF THE NORTH CAROLINA RESIDENTIAL CODE, 2018 EDITION.
- 1.02 DIMENSIONS SHOWN SHALL GOVERN OVER SCALE ON THESE DRAWINGS.
- THODS, 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.

#### PART 2: DESIGN LOADS

2.01 DESIGN LOADS SHALL CONFORM WITH THE TABLE BELOW:

PSF

#### BALCONIES, DECKS, ATTICS WITH FIXED STAIR ACCESS, DWELLING UNITS INCLUDING ATTICS WITH FIXED STAIR ACCESS STAIRS FIRE ESCAPES 40 10 GARAGES (PASSENGER CARS ONLY) ATTICS (NO STORAGE, LESS THAN 5' HEADROOM) 10 10 ATTICS (WITH STORAGE) 10 20 10 (15 FOR VAULTS) ROOF

- Notes: individual stair treads are to be designed for the uniformly distributed Live load of 40 PSF or a 300 lb. concentrated load acting over an area of 4 sq. whichever produces the greater stress.

   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
- 2.02 INTERIOR WALLS: 5 PSF LATERAL.
- 2.03 BASIC WIND DESIGN VELOCITY OF 120 MPH.
- 2.04 SOIL BEARING CAPACITY 2000 PSF (PRESUMPTIVE).

#### PART 3: STRUCTURAL STEEL

- WIDE FLANGE BEAMS AND TEE SECTIONS SHALL CONFORM TO ASTM A992 MINIMUM
- SQUARE AND RECTANGULAR TUBING SHALL CONFORM TO ASTM A500 GRADE B MINIMUM
- 3.03 STEEL PIPE SHALL CONFORM TO ASTM A53 GRADE B, TYPE S, MINIMUM GRADE
- 3.04 ALL OTHER STRUCTURAL STEEL SHALL CONFORM TO ASTM A36 MINIMUM GRADE
- STRUCTURAL STEEL CONSTRUCTION SHALL MEET THE REQUIREMENTS OF THE AISC SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS.

4.01 WELDING ELECTRODES SHALL BE E70XX AND ALL WELDING SHALL BE PERFORMED BY AN 13.01 AWS CERTIFIED WELDER

## PART 5: CONCRETE AND SLABS ON GRADE

- CAST IN PLACE CONCRETE SHALL BE OF NORMAL WEIGHT, 4-6% AIR ENTRAINMENT, FOR EXTERIOR CONCRETE AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS TYP UNO. <u>ALL</u> ITEMS NOTED AS 'CONCRETE' ARE TO BE CAST IN PLACE,
- RFINFORCED CAST IN PLACE CONCRETE SHALL BE PROPORTIONED, MIXED AND PLACED IN ACCORDANCE WITH THE SPECIFICATIONS OF ACI 318, LATEST EDITION.
- SLABS ON GRADE, IF ANY, SHALL BE CAST IN PLACE, CONTAIN SYNTHETIC POLYPROPYLENE FIBRILLATED MICRO FIBERS, FIBER LENGTH 1 1/2", DOSAGE RATE 1 1/2 LBS/CU YD. SLAB TO BE PLACED ON A 6 MIL VAPOR BARRIER ON 4" MIN GRANULAR FILL ON SOIL WITH 90% MIN STANDARD PROCTOR DENSITY. VAPOR BARRIER MAY BE OMITTED FOR SLABS NOT IN ENCLOSED AREAS

### PART 6: REBAR AND WIRE REINFORCEMENT

- 6.01 REBAR SHALL BE DEFORMED STEEL CONFORMING TO ASTM A615 GRADE 60 TYP UNO
- LAP SPLICES SHALL BE CLASS B AS DEFINED BY ACI 318, TYP UNO
- 6.03 WIRE REINFORCEMENT SHALL BE 9 GA AND SHALL CONFORM TO ASTM A1064.

7.01 CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90 AND C55, NORMAL WEIGHT,

### f'M = 1.500 PSI MIN

- 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 COMPRESSIVE STRENGTH OF 2000 PSI.
- 7.04 MASONRY CONSTRUCTION SHALL CONFORM TO THE SPECIFICATIONS OF ACI 530
- LADDER WIRE REINFORCEMENT SHALL CONFORM TO ASTM A951. 6" MIN LAPS FOR CONTINUOUS WALL APPLICATIONS

#### PART 8: BOLTS AND LAG SCREWS

- 8.01 BOLTS SHALL CONFORM TO ASTM A307 MINIMUM GRADE TYP UNO. INSTALL STANDARD STEEL WASHERS (ASTM F844-07a) FOR THE NUT / BOLT HEAD WHEN BOLTING WOOD MEMBERS. HOLES FOR BOLTS SHALL BE AISC STANDARD HOLES UNO
- LAG SCREWS SHALL CONFORM TO ANSI/ASME STANDARD B18.2.1-1981. PILOT HOLES SHALL BE USED FOR LAG SCREW INSTALLATION AND SHALL BE BORED ACCORDING TO NDS SPECIFICATIONS. INSTALL STANDARD STEEL WASHERS (ASTM F844-07a) FOR
- ANCHOR RODS AND BOLTS SHALL CONFORM TO ASTM F1554-15 GRADE 36 UNO. BENT ANCHOR BOLTS SHALL HAVE A 2" MIN HOOK UNO 8.03

#### PART 9: DRIVEN FASTENERS

9.01 NAILS, SPIKES AND STAPLES SHALL CONFORM TO ASTM F 1667— 05. NAILS ARE TO BE COMMON WIRE OR BOX

### PART 10: DIMENSIONAL LUMBER

10.01 SOLID SAWN WOOD FRAMING DESIGN IS BASED ON NO. 2 SPRUCE PINE FIR OR SYP #2 FOR JOISTS, RAFTERS, GIRDERS, BEAMS, STUDS, ETC. MINIMUM ALLOWABLE DESIGN PROPERTIES ARE AS FOLLOWS: Fruper lies are as follows: E=1,400,000 PSI,  $F_0$  peg = 425 PSI,  $F_V=285$  PSI, SPECIFIC GRAVITY = 0.42 MIN  $F_b=875$  PSI FOR 2X4, 2X6, 2X8.  $F_b=800$  PSI FOR 2X10'S, 750 PSI FOR 2X12'S

- LVL OR PSL MINIMUM ALLOWABLE DESIGN PROPERTIES ARE AS FOLLOWS: E=1,900,000 PS,  $\Gamma_{p}=2600$  PSI,  $\Gamma_{v}=285$  PSI,  $\Gamma_{p}=pp=750$  PSI LSL MINIMUM ALLOWABLE DESIGN STRESSES ARE AS FOLLOWS: E=1.3 X 10E6 PSI,  $\Gamma_{b}=1700$  PSI,  $\Gamma_{v}=400$  PSI,  $\Gamma_{c}$  pep = 680 PSI 11.01
- LVL OR PSL MEMBERS MAY BE RIPPED FROM DEEPER MEMBERS TO MATCH THE MEMBER DEPTH SPECIFIED IN THE PLANS

### PART 12: PRESSURE TREATED LUMBER

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 GIVING EQUAL PROTECTION. THE BUILDING CODE OFFICE MAY ALSO APPROVE A NATURAL 12.01 DECAY RESISTANT WOOD PER SECTION 19-6(A)

### PART 13: STEEL FLITCH PLATE BEAMS

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 USING 1/2" Ø BOLTS SPACED AT 16" O.C. STAGGERED TOP TO BOTTOM OF THE BEAM. N A 2" EDGE DISTANCE. PLACE TWO BOLTS, ONE ABOVE THE OTHER, 16" MAX FROM EACH END OF THE BEAM, TYP UNO

### PART 14: STUD SUPPORTS FOR BEAMS

- STEEL, ENGINEERED LUMBER, AND FLITCH PLATE BEAMS BEARING ON A STUD WALL SHALL BEAR AS FOLLOWS: 14.01
- 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 AND SHALL BE SUPPORTED BY A MINIMUM OF THREE GANGED STUDS, OR A GANGED STUD COLUMN WITH A NUMBER OF STUDS SUCH THAT THE STUD COLUMN IS AT LEAST AS WIDE AS THE TRUE WIDTH OF THE BEAM BEING SUPPORTED, WHICHEVER IS GREATER, TYP UND. 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 MINIMUM OF 4 1/2" ONTO THE WALL AND BE SUPPORTED BY A TRPL STUD GANGED
- 4.02 DIMENSIONAL LUMBER BEAMS BEARING ON A STUD WALL SHALL BEAR AS FOLLOWS:
- 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 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 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 MINIMUM OF 3" ONTO THE WALL AND BE SUPPORTED BY A DBL STUD GANGED COLUMN TYP UNO.

- 14.03 EXTRA JOISTS BEARING ON A STUD WALL PERPENDICULAR TO OR SKEWED RELATIVE TO THE BEAM SHALL BE SUPPORTED BY ONE ADDITIONAL STUD.
- STUDS THAT ARE GANGED TO FORM A COLUMN SHALL HAVE ADJACENT STUDS WITHIN 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 OF ION NAILS & O.C., S APART, FOR ZAO OR ZAIU SIDDS) ALL CULTUMNS SHALL BE CONTINUOUS DOWN TO THE FOUNDATION OR OTHER PROPERLY DESIGNED STRUCTURAL ELEMENT SUCH AS A BEAM. COLUMNS TRANSFERRING LOADS THROUGH FLOOR LEVELS SHALL BE SOLIDLY BLOCKED <u>FOR THE FULL WIDTH</u> OF THE STUD COLUMN WITHIN THE CANTY FORMED BY THE

#### PART 15: NAILING OF MULTI PLY WOOD BEAMS

- SOLID SAWN LUMBER JOISTS THAT ARE GANGED TO FORM A BEAM SHALL HAVE ADJACENT MEMBERS IN THE BEAM NAILED TOCETHER WITH THREE ROWS OF 10d NAILS @ 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.
- LVL MEMBERS THAT ARE GANGED TO FORM A BEAM SHALL HAVE ADJACENT MEMBERS IN THE BEAM FASTENED TOGETHER PER MANUFACTURERS RECOMMENDATIONS, TYP 15.02

### PART 16: WALL FRAMING AND BRACING

STUD WALLS SHALL CONSIST OF 2X4 STUDS SPACED AT 16" O.C. UNO. STUDS SHALL 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 STUD WALL EXCEPT AS REQUIRED FOR DOOR OR WINDOW OPENINGS. THE KING STUDS FOR SUCH OPENINGS SHALL BE CONTINUOUS, TYP UNO.

MAX ALLOWABLE WALL HEIGHTS FOR EXTERIOR STUD WALLS, INCLUSIVE OF SOLE PLATE AND DOULTON BUSINESS. 16.01

MAX ALLOWABLE WALL RIGHTS FOR EXTENDED STOR WALLENGE STOR TO SOLE PLATE AND DEL TOP PLATE AND DEL TOP PLATE AND DEL TOP PLATE AND ZET SOLE PLATE AND DEL TOP SOLE PLATE AND ZET SOLE PLATE PLATE AND ZET SOLE PLATE PLA

16.02 FOR WALL BRACING THE FOLLOWING SHALL APPLY: 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

602.10 OF THE 2018 NCRC. CONTINUOUS SHEATHING HAS BEEN PROVIDED, ALONG
WITH ALTERNATIVE METHODS TO INSURE THE MINIMUM INTENT OF SECTION 602.10

OF THE 2018 NCRC HAS BEEN MET AND EXCEEDED.

-BRACED WALL PANELS SHALL BE FASTENED IN ACCORDANCE WITH TABLE 602.3(1) TO

-BRACED WALL PARKES SHALE DE PASIENCE IN ACCORDANCE WITH NOBLE 00.2.3(1) OF PROVIDE CONTINUOUS PANEL UPLIET RESISTANCE AND COMPULANCE WITH NORBC R602.3.5 AND R802.11 UNLESS NOTED OTHERWISE ON STRUCTURAL PLANS.

-MAY SUBSTITUTE WSP FOR GB
-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 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 WALL LINES ONLY REQUIRED AT SHADED WALLS, UNO.

17.01 KING STUDS FOR OPENINGS IN EXTERIOR WALLS SHALL BE AS FOLLOWS:

			NUMBE	r of Kin	ig studs	
MAX OPENIN	G WIDTH	5'-0"	9'-0"	13'-0"	17'-0"	21'-0"
STUD SIZE	2X4 2X6 2X8	1 1 1	2 1 1	3 2 1	4 2 1	5 2 2

# PART 18: SUBSTITUTIONS

MATERIAL OR MEMBER SIZE SUBSTITUTIONS OR PLAN DEVIATIONS REQUIRE THE WRITTEN AUTHORIZATION OF THE DESIGNERS. UNAUTHORIZED DEVIATIONS ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. 8.01

### PART 19: OWNERSHIP OF STRUCTURAL DESIGN

THE STRUCTURAL DESIGN OF THIS PLAN IS THE PROPERTY OF ENGINEERING TECH 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 ANY OTHER LOCATION WITHOUT WRITTEN PERMISSION FROM ETA 19.01

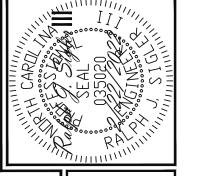
### ALLOWABLE I-JOIST SUBSTITUTION

NOTE: MAINTAIN JOIST DEPTH, DIRECTION, AND SPACING SPECIFIED ON PLANS.

MANUFACTURER	DEPTH	SERIES	SIMPSON FACE MOUNT HGR	SIMPSON TOP FLANGE HGR
BLUELINX BOISE CASCADE BOISE CASCADE INTERNATIONAL BEAMS	11.875" 11.875" 11.875" 11.875"	BLI 40 BCI 5000s BCI 6000s IB 400	IUS2.56/11.88 IUS2.06/11.88 IUS2.37/11.88 IUS2.56/11.88	ITS2.56/11.88 ITS2.06/11.88 ITS2.37/11.88 ITS2.56/11.88
LP CORP NORDIC ROSEBURG WEYERHAEUSER WEYERHAEUSER	11.875" 11.875" 11.875" 11.875" 11.875"	LPI 20+ NI 40X RFPI 40s TJI 210 EEI-20	IUS2.56/11.88 IUS2.56/11.88 IUS2.56/11.88 IUS2.06/11.88 IUS2.37/11.88	ITS2.56/11.88 ITS2.56/11.88 ITS2.56/11.88 ITS2.06/11.88 ITS2.37/11.88

JOISTS NOT LISTED IN THE ABOVE TABLE MAY BE USED PROVIDED THEY UTE USP

JOISTS MEET ( BRAND	OR EXCEED THE PROPERTIES OF THOSE LISTED. SUBS HANGERS WITH EQUIVALENT VALUES AS DESIRED.	OVIE
S	TJ TRIPLE JOIST TYP TYPICAL TRPL TRIPLE STUD POCKET UNO UNLESS NOTE OTHERWISE XJ EXTRA JOIST	
ABBRE VIA IION	FID FOUNDATION FIT FOUNDATION HOG HOT DIPPED GALVANIZED HOR HANGER L'A. LAMINETD VENER L'MER NTS NOT TO SCALE OLC. ON CENTER PS. PARALLEL STRAND LUMBER OL QUAD JOST SP SPACE (OR SPACING) SSP SINGE STUD POCKET SO SQUARE	
1	A BOVE BOTH BOTH BOTH BOTH BOTH BOTH BOTH BOTH	
	ABV B.E. B.T. CO CO CO CO CO CO CO CO CO CO CO CO CO	
<u>NOIES</u>	HE BUILDER IS RESPONSIBLE FOR REVIEWING PLANS PRIOR TO CONSTRUCTION. THE BUILDER B. SHALL IMMEDIATELY CONTACT THE ENGINEER OF RECORD (EOR) BEFORE PROCEEDING IF THE BLACKLOUNG COMDITIONS ARE NOTED BEFORE OR DURING CONSTRUCTIONS:  1) THE WORKING PLANS DO NOT BEEN THE SEAL OF THE EOR OF THE EOR OF THE EOR OF THE EOR OF THE PROPERTY OR INCOMPLETE INFORMATION CONTAIN DISORREPART OR INCOMPLETE INFORMATION OF THE BUILDER TO CONCENTRE THAN ANY ERONSON ENTER THAN ANY ERONSON SUBJECT THAN ANY REVISIONS ISSUED BY THE EOR ARE PROMPLY DISTRIBUTED TO THE DISORDARIZED THE EOR DOES NOT PERFORM FEMESTRATION OR VENTING CALCULATIONS OR ANY OTHER EOR DOES NOT PERFORM FEMESTRATION OR VENTING CALCULATIONS OR ANY OTHER EOR DOES NOT PREFORM FEMESTRATION OR VENTING CALCULATIONS OR ANY OTHER EOR DOES NOT DIRECTLY RELATED TO STRUCTURAL ENGINEERING.  FLOOR AND FLOOR TRUCSES TO BE DESIGNED BY AN ENGINEER REGISTERED BY THE STATE. FINAL FURSING SHOULD BE SUBMITTED TO THE EOR FOR REVIEW	



3870 s 201 7609 License No. C:38 Ibrook Rd, Suite ; lorth Carolina 276 (919) 844-16 STRUCTURAL North > ₹ 378 Raj



		<u> </u>		Ϋ́
		ENG RJS/TRB		DATE 2/22/2022
	W	ENG	REV:	DATE
I KIPLE A HOMES	STRUCTURAL ADDENDUM	2 PRINCE PLACE		
CLIENI:	SCOPE	LOT #:		

PROJECT NO. 22-28-005

SHEET NO.