# **Residence for**

## Garman Homes Lot 0151 Serenity Fuquay Varina, North Carolina

#### **INDEX TO DRAWINGS**

COVER SHEET 1 FRONT & LEFT SIDE ELEVATIONS 2 REAR & RIGHT SIDE ELEVATIONS 3 FIRST & SECOND FLOOR PLANS E FIRST & SECOND FLOOR MECHANICAL PLANS M FIRST & SECOND FLOOR MECHANICAL PLANS P FIRST FLOOR PLUMBING PLAN D CONSTRUCTION DETAILS	S1AFOUNDATION PLAN & FIRST FLOOR FRAMING PLANS2ASECOND FLOOR FRAMING PLAN & ROOF FRAMING PLANS3ASECOND FLOOR WALK UP ATTIC FRAMING PLAN & ATTIC FRAMING PLANS4AROOF FRAMING PLAN- WALK UP ATTIC OPTIONS5ASTRUCTURAL OPTIONSS6ASTRUCTURAL OPTION PLAN- LEFT & RIGHTSD1STRUCTURAL DETAILSSD2STRUCTURAL DETAILSSD3STRUCTURAL DETAILS
<u>GENERAL NOTES</u>	RESIDENTIAL BUILDING CODE SUMMARY 1. PLANS ARE DESIGNED TO THE 2018 N.C.S.R.B.C.
1. ALL WORK TO BE DONE IN STRICT ACCORDANCE WITH NORTH CAROLINA STATE RESIDENTIAL BUILDING CODE, 2018 EDITION (HEREWITH SHOWN AS N.C.S.R.B.C.).	<ol> <li>HOUSE IS DESIGNED FOR 115 MPH ULTIMATE DESIGN WIND SPEED (89 MPH NOM DESIGN WIND SPEED), EXPOSURE B.</li> </ol>
2. DIMENSIONS SHOWN ON DRAWINGS GOVERN OVER SCALE.	<ol> <li>ANCHOR BOLTS SHALL BE MIN. 1/2" DIAMETER AND SHALL EXTEND 7" MIN. INTO MASONRY OR CONCRETE. BOLTS TO BE NO MORE THAN 6' O.C. AND WITHIN 12"</li> </ol>
3. STUD WALL DESIGN SHALL CONFORM TO ALL N.C.S.R.B.C. REQUIREMENTS	FROM THE CORNER. 4. MEAN ROOF HEIGHT: 35'-0"
<ol> <li>CONTRACTOR SHALL USE TEMPERED SAFETY GLASS IN ALL LOCATIONS AS REQUIRED BY N.C.S.R.B.C., 2018 EDITION, SECTION</li> </ol>	5. COMPONENT & CLADDING DESIGNED FOR THE FOLLOWING LOADS:
<ul> <li>5. ANY HABITABLE ROOM SHALL MEET ALL LIGHT/VENTILATION AND EGRESS AS REQUIRED BY N.C.S.R.B.C. 2018 EDITION, SECTIONS R-303.1 AND R-310.1.</li> </ul>	MEAN ROOF HGT:         UP TO 30'         30'-1" TO 35'         35'-1" TO 40'         40'-1" TO 45'           ZONE 1         16.5,-18.0         17.3,-18.9         17.3,-18.9         17.3,-18.9           ZONE 2         16.5,-21.0         17.3,-22.1         17.3,-22.1         17.3,-22.1           ZONE 3         16.5,-21.0         17.3,-22.1         17.3,-22.1         17.3,-22.1           ZONE 4         18.0,-19.5         18.9,-20.5         18.9,-20.5         18.9,-20.5

- 6. ALL EXTERIOR WALLS SHOWN ON FLOOR PLANS ARE 2X6 FRAME UNLESS NOTED OTHERWISE. ALL INTERIOR WALLS SHOWN ON FLOOR PLANS ARE 2X4 FRAME UNLESS NOTED OTHERWISE.
- 7. ALL ANGLED WALLS SHOWN ON FLOOR PLANS ARE 45 UNLESS NOTED OTHERWISE.
- 8. ALL WINDOWS SHALL HAVE A MINIMUM DPI RATING OF 25. BUILDER SHALL VERIFY WITH WINDOW MANUFACTURER THAT UNITS INSTALLED MEET THESE REQUIREMENTS AS PER N.C.S.R.B.C., 2018 EDITION, TABLE 301.2(4).
- 9. ENERGY EFFICIENCY REQUIREMENTS FOR THE SPECIFIC CLIMATE ZONE WHERE STRUCTURE IS BEING BUILT SHALL BE IN ACCORDANCE WITH CHAPTER 11 OF THE N.C.S.R.B.C., 2018 EDITION, AS SHOWN IN SECTION N1101.2.

#### MATERIALS LEGEND

	EARTH/COMPACT FILL	UT.	FINISH WOOD
à - à -	CONCRETE		ROUGH WOOD
	BRICK		BLOCKING
$\otimes$	CONCRETE BLOCK/STONE		PLYWOOD
	STEEL		BATT INSULATION
	ALUMINUM		RIGID INSULATION

## ATTIC VENTILATION REQUIREMENTS

NATURAL ROOF VENTILATION CALCULATIONS	MECHANICAL ROOF VENTILATION CALCULATIONS
<u>1357 SQ. FT.</u> = 9.05 SQ. FT. 150 VENT REQ'D	1357 SQ. FT.         =         4.53 SQ. FT.           300         VENT REQ'D
BUILDER TO PROVIDE APPROPRIATE VENTILATING AS REQUIRED PER CODE	BUILDER TO PROVIDE APPROPRIATE VENTILATING AS REQUIRED PER CODE

MEAN ROOF HGT:	UP TO 30'	30'-1" TO 35'	35'-1" TO 40'	40'-1" TO 45'
ZONE 1	16.5,-18.0	17.3,-18.9	17.3,-18.9	17.3,-18.9
ZONE 2	16.5,-21.0	17.3,-22.1	17.3,-22.1	17.3,-22.1
ZONE 3	16.5,-21.0	17.3,-22.1	17.3,-22.1	17.3,-22.1
ZONE 4	18.0,-19.5	18.9,-20.5	18.9,-20.5	18.9,-20.5
ZONE 5	18.0,-24.1	18.9,-25.3	18.9,-25.3	18.9,-25.3

- 6. MINIMUM VALUES FOR ENERGY COMPLIANCE: Zone 4
- 7. MAXIMUM GLAZING U-FACTOR: .35
- 8. INSULATING VALUES: CEILING: R-38 / WALLS: R-15 / FLOOR: R-19 SLABS: R-10. CODE REFERENCE: TABLE N1102.1

#### AREA CALCULATIONS

<u>HEATED (SQ.</u>	<u>FT.)</u>	UNHEATED (SQ	. FT.)	UNFINISHED	(SQ. FT.)
1ST FLOOR: 2ND FLOOR:	848 1186	GARAGE: FRONT PORCH: SCREEN PORCH:	428 81 100	1ST FLOOR: 2ND FLOOR: 3RD FLOOR:	N/A N/A N/A
TOTAL:	2034	TOTAL:	609	TOTAL:	N/A
				OVERALL DIMEN	<u>SIONS</u>
				WIDTH: DEPTH:	33'-8" 52'-3"

#### FOUNDATION VENTILATION CALCULATIONS

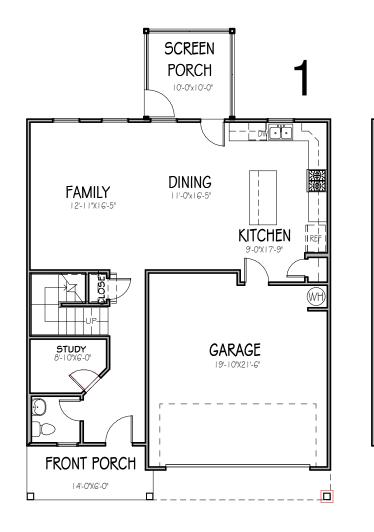
REFERENCE: N.C.S.R.B.C. 2018 EDITION SECTION R408)

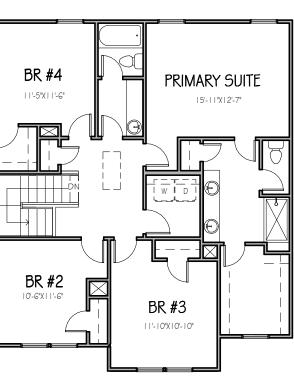
#### NOT APPLICABLE WITH SLAB FOUNDATIONS













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NOTE - SLOPE ALL GRADES AWAY FROM HOUSE FOR POSITIVE DRAINAGE

THE PURPOSE OF THESE DRAWINGS IS TO SHOW THE INTENT OF THE DESIGN AND CONSTRUCTION OF THIS HOME. CONTRACTOR SHOULD VERIFY ALL CONDITIONS AND DIMENSIONS PRIOR TO CONSTRUCTION. ONCE A PERMIT HAS BEEN ISSUED, CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY TO THE ACCURACY OF THE PLANS AND ANY CHANGES MADE DURING CONSTRUCTION.



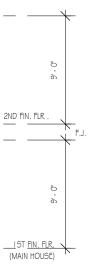
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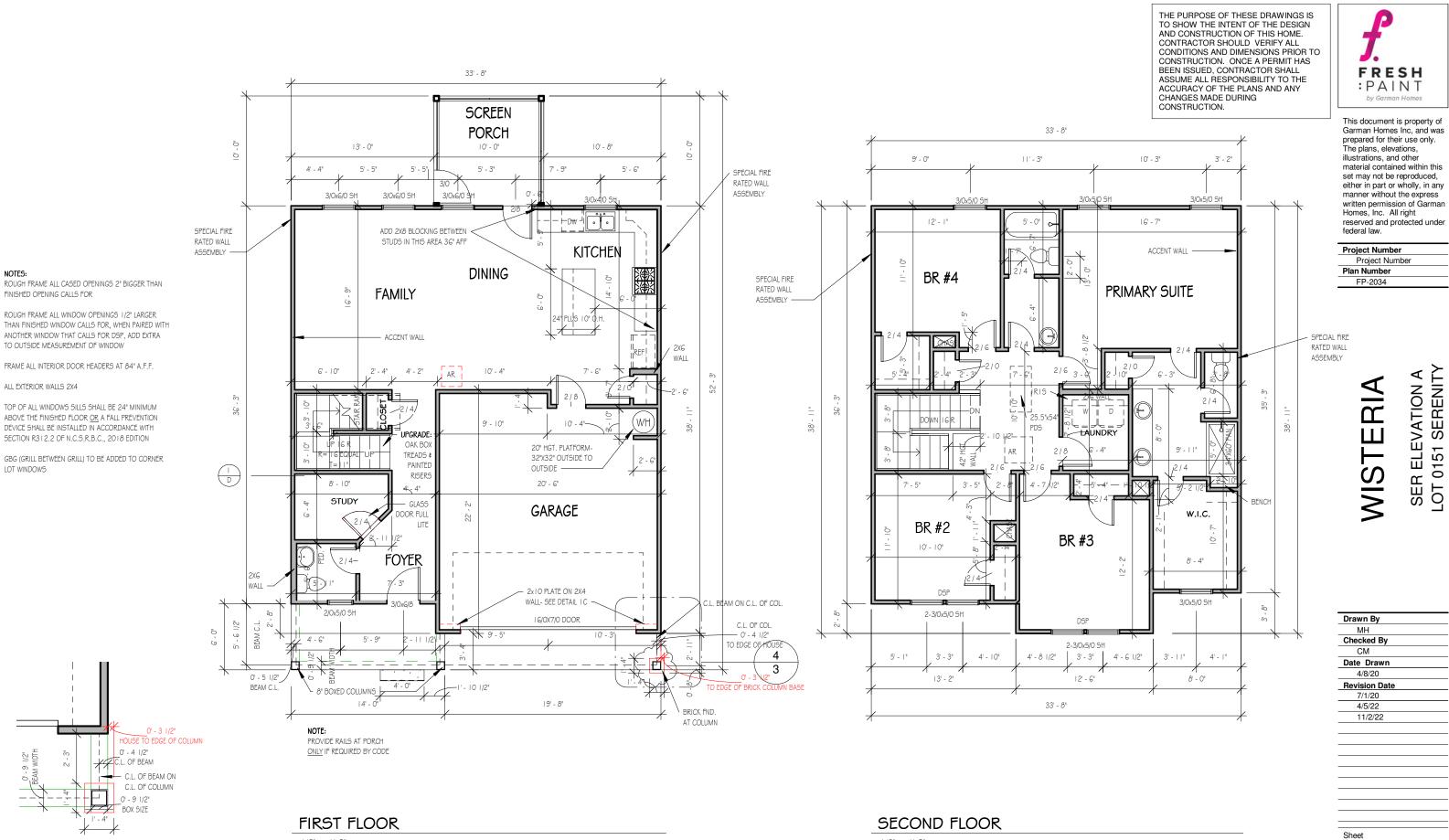


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ROUGH FRAME ALL WINDOW OPENINGS 1/2" LARGER THAN FINISHED WINDOW CALLS FOR, WHEN PAIRED WITH ANOTHER WINDOW THAT CALLS FOR DSP, ADD EXTRA TO OUTSIDE MEASUREMENT OF WINDOW

FRAME ALL INTERIOR DOOR HEADERS AT 84" A.F.F.

ALL EXTERIOR WALLS 2X4

FINISHED OPENING CALLS FOR

NOTES:

TOP OF ALL WINDOWS SILLS SHALL BE 24" MINIMUM ABOVE THE FINISHED FLOOR OR A FALL PREVENTION DEVICE SHALL BE INSTALLED IN ACCORDANCE WITH SECTION R312.2 OF N.C.S.R.B.C., 2018 EDITION

GBG (GRILL BETWEEN GRILL) TO BE ADDED TO CORNER LOT WINDOWS

1/8" = 1'-0"

9'-0" CLG. HGT. U.N.O. SET WINDOWS @ 7'-6" U.N.O. CASED OPENINGS 8'-0" TALL

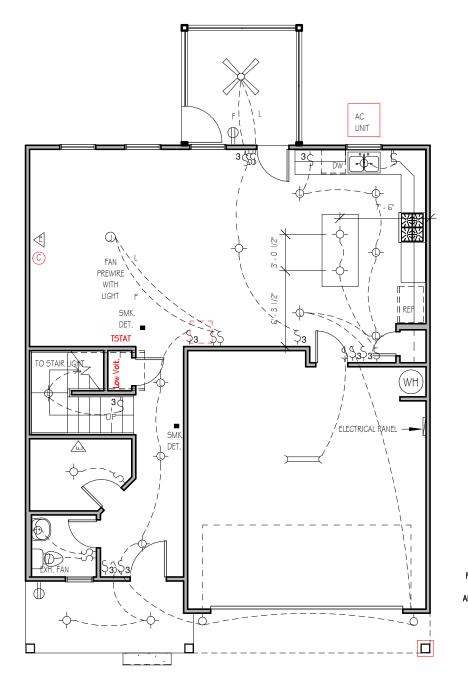
1/8" = 1'-0"

### GARAGE COLUMN DETAIL

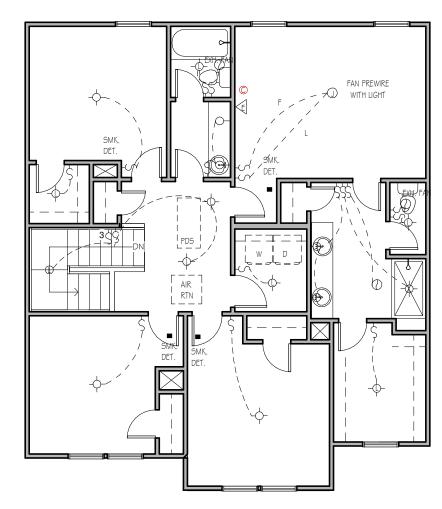
1/2" /IDTH

50

9'-0" CLG. HGT. U.N.O. SET WINDOWS @ 7'-4" U.N.O.



\*\*NOTE: THREE ETHERNET OUTLETS IN THESE PREDETERMINED LOCATIONS ARE STANDARD. ANY ADDITIONAL OUTLETS ARE AN UPGRADE.



#### FIRST FLOOR ELECTRICAL PLAN

1/8" = 1'-0"

NOTE - ELECTRICAL RECEPTACLE AND SWITCH QUANTITIES AND LOCATIONS SHOWN ON PLAN ARE FOR ILLUSTRATION PURPOSES ONLY. ACTUAL NUMBER AN D LOCATIONS SHALL BE FIELD DETERMINED AS PER CLIENT AND BUILDER EXCEPT WHERE CODE REQUIREMENTS APPLY.

#### SECOND FLOOR ELECTRICAL PLAN

1/8" = 1'-0"

NOTE - ELECTRICAL RECEPTACLE AND SWITCH QUANTITIES AND LOCATIONS SHOWN ON PLAN ARE FOR ILLUSTRATION PURPOSES ONLY. ACTUAL NUMBER AN D LOCATIONS SHALL BE FIELD DETERMINED AS PER CLIENT AND BUILDER EXCEPT WHERE CODE REQUIREMENTS APPLY.

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#### ELECTRICAL LEGEND

- <b>(</b> -	FLUSH MOUNT/PENDANT LIGHT		
-ф-	LED DISK LIGHT		
-\$-	KEYLESS LIGHT		
ģ	RECESSED CAN LIGHT		
6	WALL SCONCE		
⊲⊳	FLOOD LIGHT		
	FLUORESCENT LIGHT		
	CEILING FAN		
Õ	EXHAUST FAN THERMOSTAT		
E	ETHERNET OUTLET D.B.		
C	CABLE OUTLET O DOORBELL		
	SMOKE DETECTOR		
۲	FLOOR RECEPTACLE		
	)		
	DUPLEX RECEPTACLE		
	) GFI		
	GFCI RECEPTACLE		
	220 VOLT RECEPTACLE		
	ELECTRICAL PANEL		
	SINGLE SWITCH		
5	 уз Şd		
	3-WAY SWITCH DIMMER SWITCH		

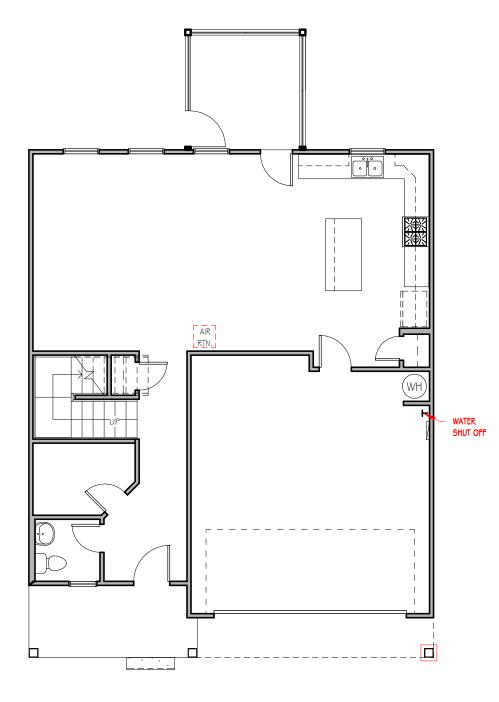


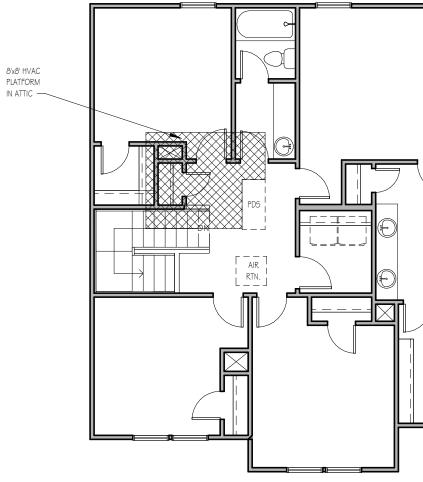
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#### FIRST FLOOR MECHANICAL PLAN

1/8" = 1'-0"

SECOND FLOOR MECHANICAL PLAN

1/8" = 1'-0"

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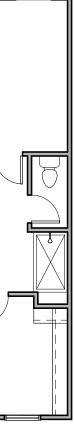
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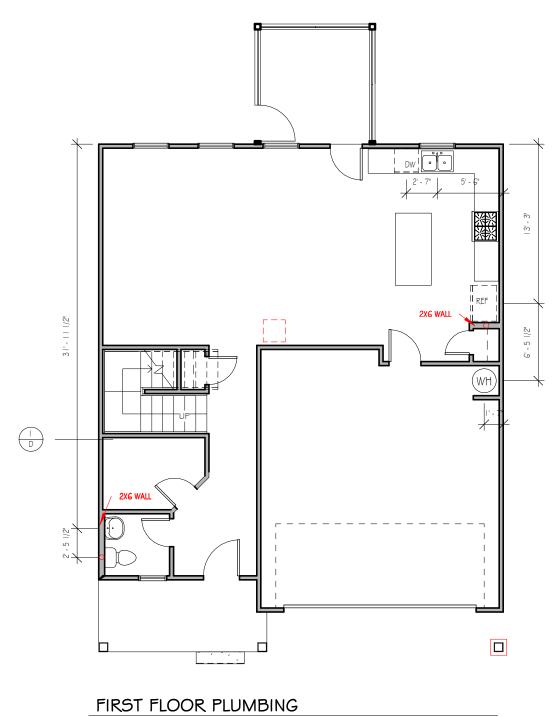


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1/8" = 1'-0"

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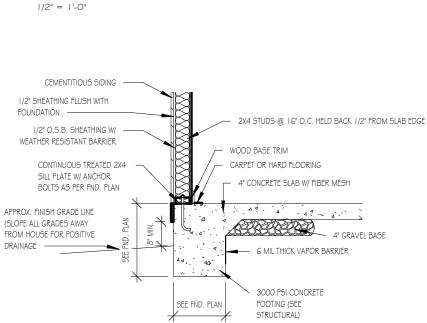
# WISTERIA SER ELEVATION A LOT 0151 SERENITY

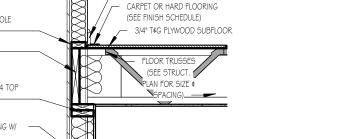
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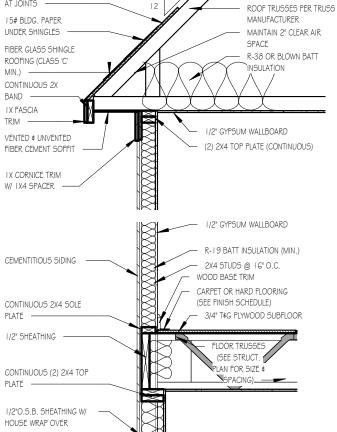
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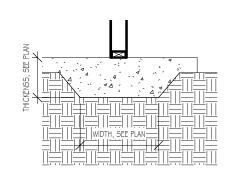






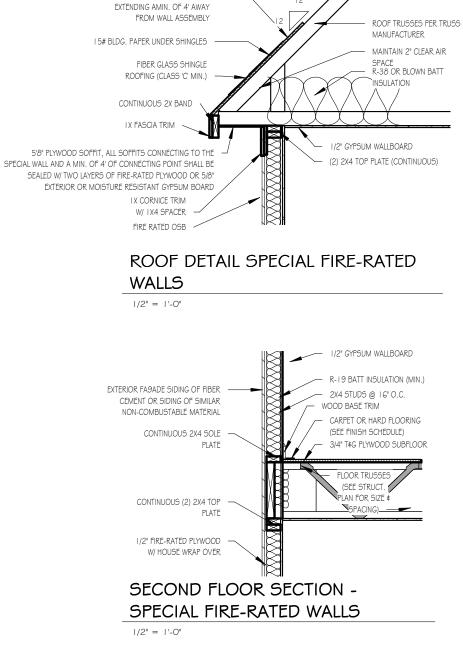






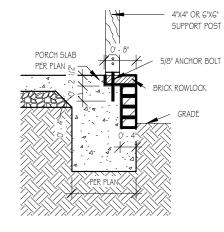
LUG FOOTING





1/2" FIRE-RATED PLYWOOD -

DECKING W/ PLY CLIPS AT JOINTS





5/8" PLYWOOD

AT JOINTS

DECKING W/ PLY CLIPS

### FRONT PORCH COLUMNS SUPPORT ATTACHMENT

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BEEN ISSUED, CONTRACTOR SHALL

ACCURACY OF THE PLANS AND ANY

CHANGES MADE DURING

CONSTRUCTION.

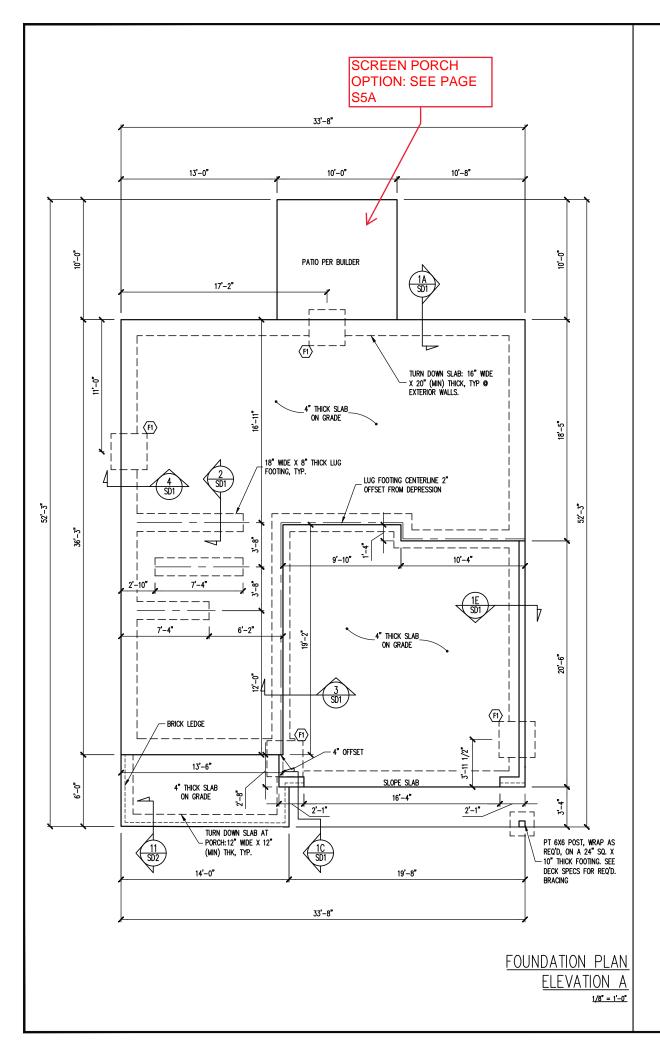
ASSUME ALL RESPONSIBILITY TO THE

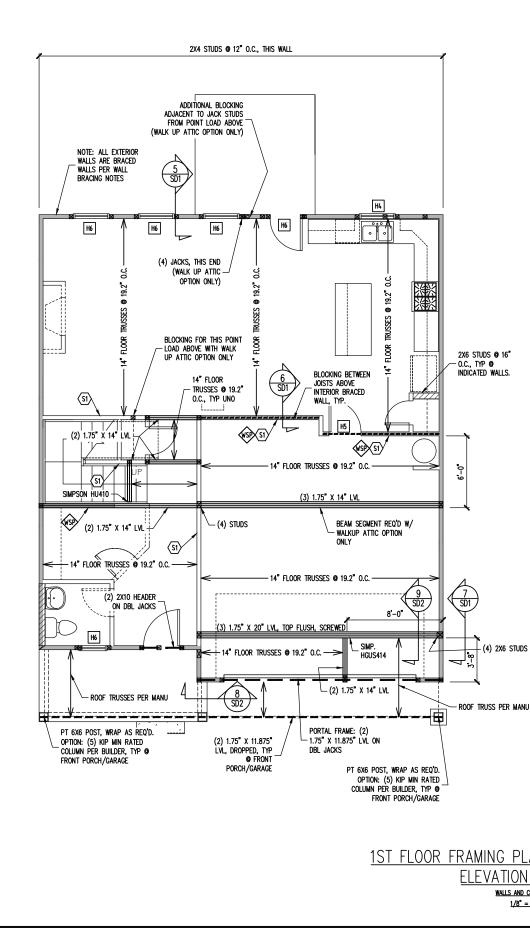
Project Number Project Number Plan Number



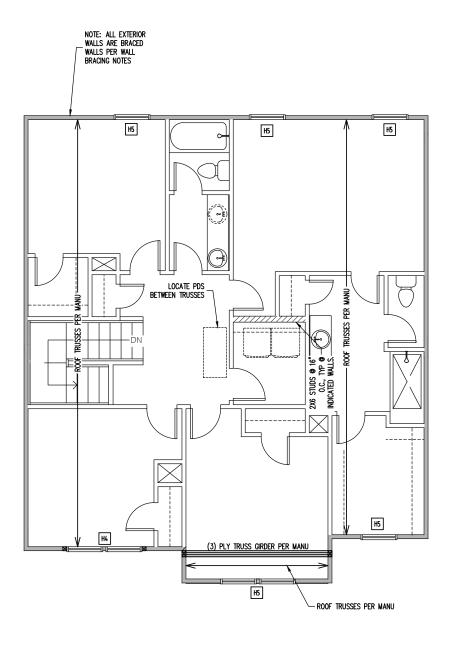
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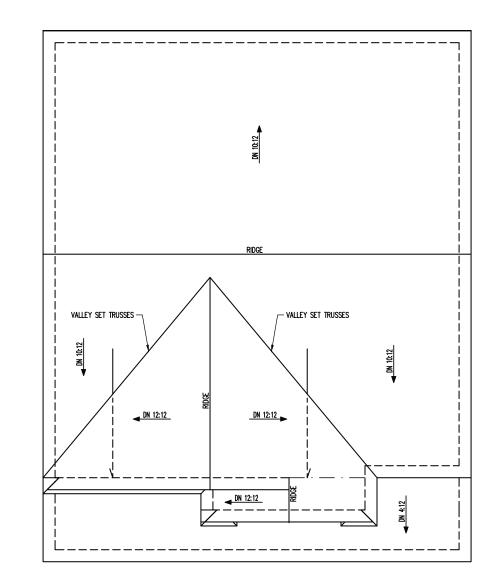
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FOUNDATION SCHEDULE F1 12" THICK X 36" SQ. FOOTING 	SEAL CARDULL C
S1       INTERIOR LOAD BEARING WALL: SECURE TO THICKENED SLAB BELOW WITH 1/2'9 RED HEADER ANCHOR (OR EQUAL) @ 6'-0" O.C., 12" MAX FROM ENDS / CORNESS OF WALL, 7" MIN EMBEDMENT INTO SLAB BELOW.         JOIST SUBSTITUTION 14" FLOOR TRUSSES PERMITTED TO BE SUBSTITUTED WITH 14" 1–JOISTS.         MAINTAIN MINIMUM SPACING AS CALLED OUT ON PLANS.         SIMP. IUS/ITS3.56/14 HANGERS TO BE SUBSTITUTED WITH SIMP. IUS/ITS3.06/14 HANGER WHEN I–JOISTS HAVE BEEN INSTALLED.         CONSTRUCTION SPECIFICATIONS INSTANT REFERENCES         REFER TO THE CONSTRUCTION SPECIFICATIONS SECTIONS FOR THE FOLLOWING INFORMATION: PART 1.01: CURRENT GOVERNING CODE	the client listed only. Engineering Tech Associates, P.A. assumes no out written permission from Engineering Tech Associates, P.A. 23-66-318 9/18/2023
PART 14: STUD SUPPORT FOR BEAMS 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 NALED TO STUDS WITH 8d NAILS 0 0* 0.C. AT PANEL EDGES, 12* 0.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 3/8* MIN. THICKNESS WOOD STRUCTURAL PANELING, ATTACH WSP TO STUD WALL WITH 8d NAILS 0 4* 0.C. AT PANEL EDGES, 8* 0.C. IN PANEL FIELD. NOTES: NOTES: NOTES: NOTES: NOTES: 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)	perty of Engineering Tech Associates, P.A. These plans are for armitting takes place more than 1 year after the seal date with <u>FRESH PAINT</u> <u>SCOPE</u> SCOPE <u>SCOPE</u> <u>SCOPE</u> <u>STRUCTURAL ADDENDUN</u> LOC <u>TBD</u> <u>REV 1</u> PLAN: <u>VISTERIA</u>
H4       (2) 1.75" X 9.25" LVL'S ON DBL JACKS         H5       (2) 2X8'S ON SINGLE JACKS         H6       (2) 2X8'S ON DBL JACKS	ENG: NBG/CMC DATE 4/18/2023 Interstruction of this plan is the poly provide the plan is the poly provide the plan is the plan

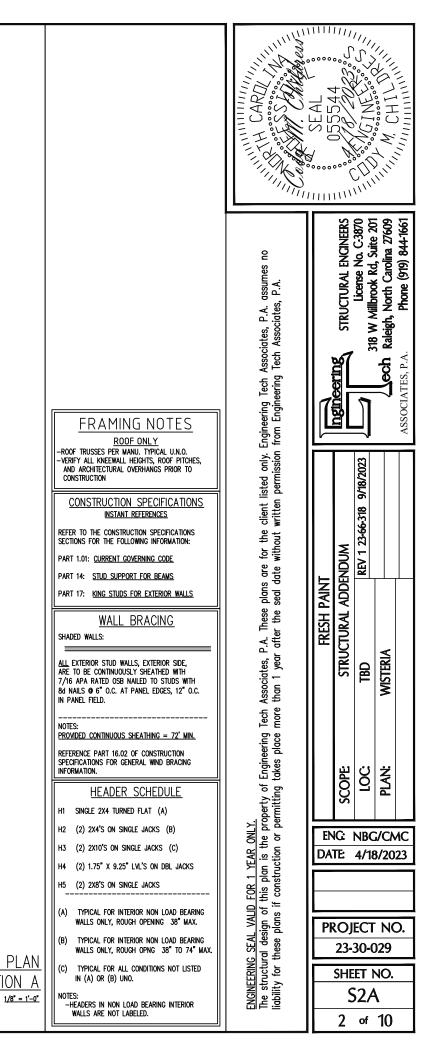


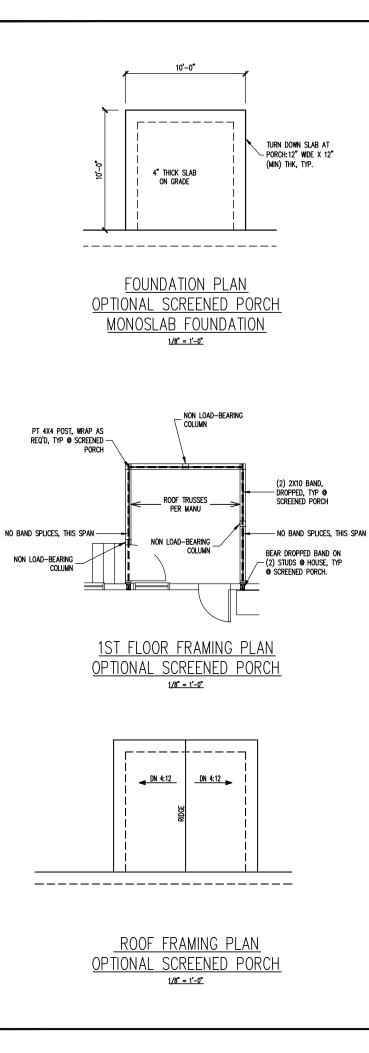


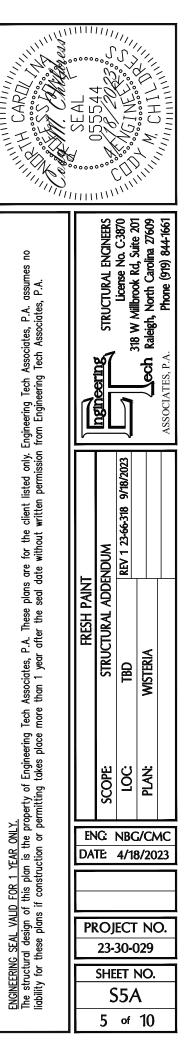
<u>TRUS</u>	S UPLIFT CONNECTORS				
EXPOSURE B	120 MPH, ANY PITCH, 24" O.C. MAX ROOF TRUSS SPACING				
RESISTANCE. CO CONTINUOUS UF SUPPORTED BY	BE ATTACHED TO SUPPORT WALL FOR UPLIFT INTINUOUS OSB WALL SHEATHING BELOW PROVIDES UITT RESISTANCE TO FOUNDATION. ALL TRUSSES INTERMEDIATE SUPPORT WALLS, KNEEWALLS OR SE ATTACHED TO SUPPORTING MEMBER PER SCHEDULE				
ROOF SPAN IS MEASURED HORIZONTALLY BETWEEN FURTHEST SUPPORT POINTS.					
<u>ROOF SPAN</u> UP TO 28'	C <u>ONNECTOR</u> NAILING PER TABLE 602.3(1) NCRBC 2018 EDITION				
OVER 28'	(1) SIMPSON H2.5A HURRICANE CLIP TO DBL TOP PLATE OR BEAM				
	OR (1) SIMPSON H3 CLIP TO SINGLE 2X4 PLATE				

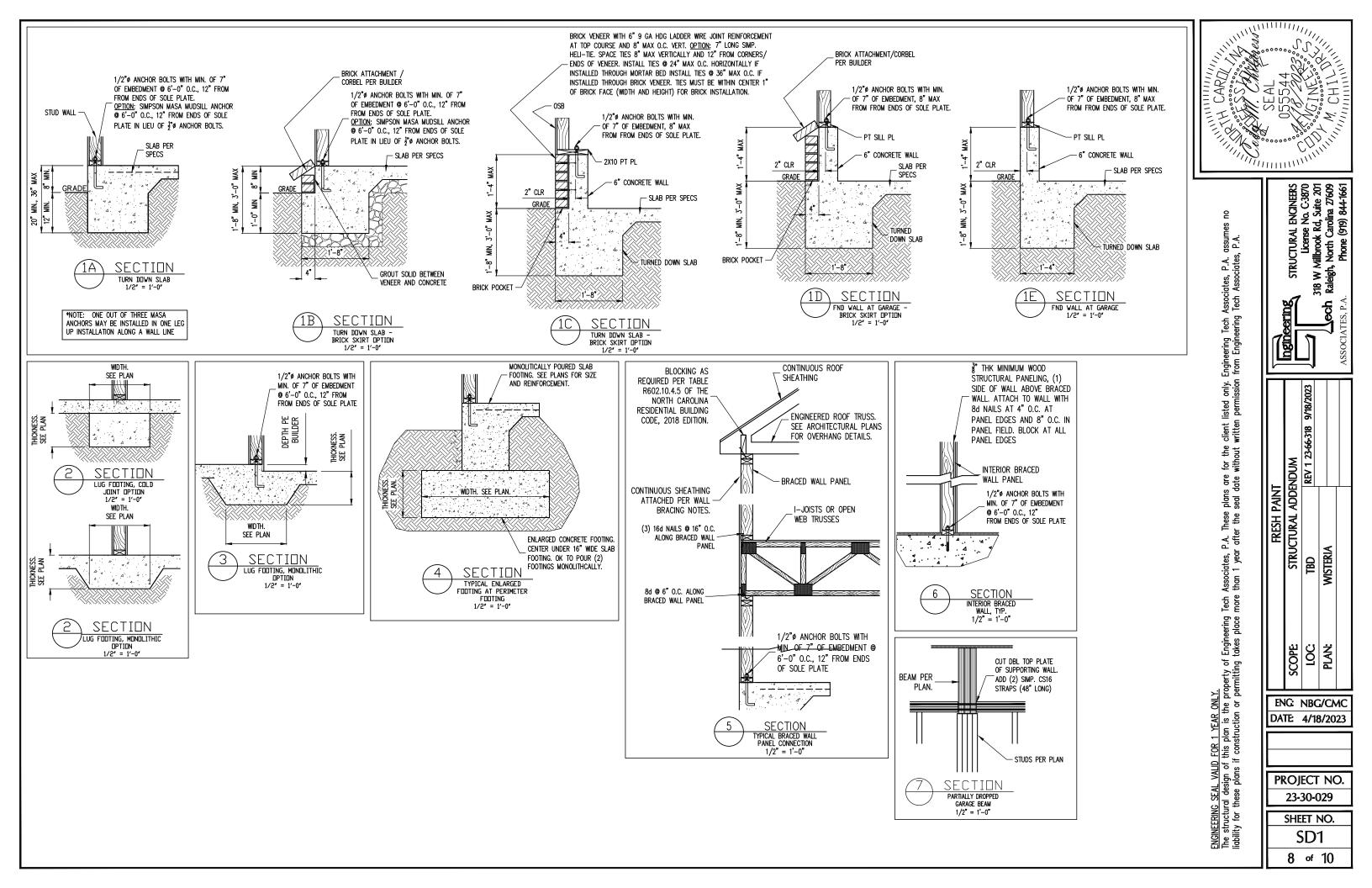
ROOF FRAMING PLAN ELEVATION A

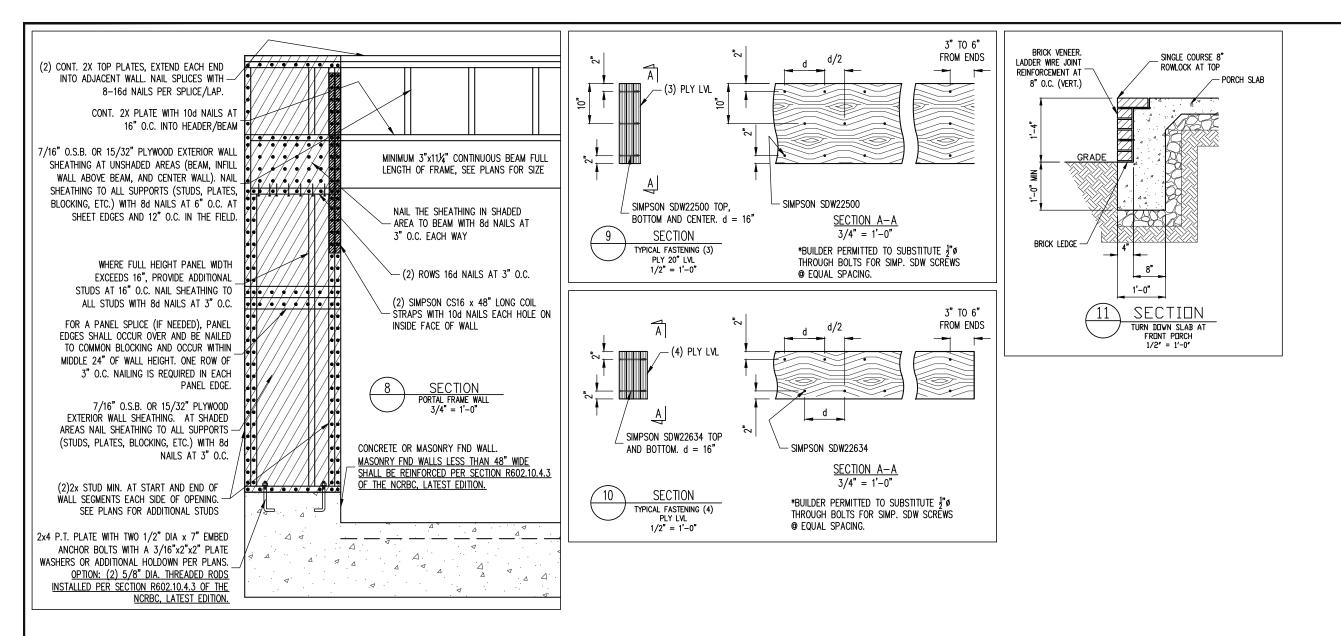
2ND FLOOR FRAMING PLAN ELEVATION A WALLS AND CELLING 1/8" = 1'-0"

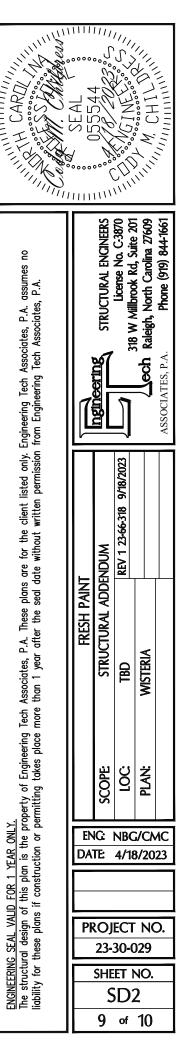












	CONSTRUCTION	SP	ECIFICATION	<u>S</u>			
	PART 1: GENERAL	7.04	MASONRY CONSTRUCTION	SHALL CONFORM TO THE SPECIF	FICATIONS OF ACI 530		within the cavity formed by the Floor Joists.
1.01	CONSTRUCTION SHALL MEET THE REQUIREMENTS OF THE NORTH CAROLINA RESIDENTIAL CODE, 2018 EDITION.	7.05	LADDER WIRE REINFORCEN FOR CONTINUOUS WALL A	IENT SHALL CONFORM TO ASTM PPLICATIONS	A951. 6" MIN LAPS		PLOOK JUISTS. PART 15: NAILING OF MULTI PLY WOOD BEAMS
1.02	DIMENSIONS SHOWN SHALL GOVERN OVER SCALE ON THESE DRAWINGS.		PART 8: BOLTS AND LAG	SCREWS		15.01	SOLID SAWN LUMBER JOISTS THAT ARE GANGED TO FORM A BEAM SHALL ADJACENT MEMBERS IN THE BEAM NAILED TOGETHER WITH THREE ROWS OF
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.	8.03	ANCHOR RODS AND BOLT ANCHOR BOLTS SHALL HA	s shall conform to astm F15 Ve a 2" min hook uno	554–15 GRADE 36 UNO. BENT		© 16" O.C. FOR 2X10 OR LARGER, TWO ROWS OF 10d NAILS © 16" O.C. FOR ROW OF 10d NAILS © 16" O.C. FOR 2X6 OR SMALLER. STAGGER ROWS 5"
2.01	PART 2: DESIGN LOADS DESIGN LOADS SHALL CONFORM WITH THE TABLE BELOW:	9.01	PART 9: DRIVEN FASTENE	<u>RS</u> Es shall conform to astm f	1667– 05. NAILS ARE TO BE	15.02	LVL MEMBERS THAT ARE GANGED TO FORM A BEAM SHALL HAVE ADJACED IN THE BEAM FASTENED TOGETHER PER MANUFACTURERS RECOMMENDAT UNO
2.01	USE LIVE LOAD (PSF) DEAD LOAD (PSF)		COMMÓN WIRE OR BOX PART 10: DIMENSIONAL LU	WREP			PART 16: WALL FRAMING AND BRACING
	BALCONIES, DECKS, ATTICS WITH FIXED STAIR ACCESS, DWELLING UNITS INCLUDING ATTICS WITH	10.01	SOLID SAWN WOOD FRAM	<u>mder:</u> Ing design is based on no. 2 Rders, beams, studs, etc.	SPRUCE PINE FIR <u>OR</u> SYP #2	16.01	STUD WALLS SHALL CONSIST OF 2X4 STUDS SPACED AT 10" O.C. UNO. ST BE CONTINUOUS FROM SOLE PLATE AT FLOOR TO DOUBLE TOP PLATE AT OR ROOF. NO INTERMEDIATE BANDS OR PLATES SHALL CAUSE DISCONTINUI
	FIXED STAIR ACCESS, STAIRS, FIRE ESCAPES 40 10	PAF	RT 11: ENGINEERED LUMBER				STUD WALL EXCEPT AS REQUIRED FOR DOOR OR WINDOW OPENINGS. THE K FOR SUCH OPENINGS SHALL BE CONTINUOUS, TYP UNO. MAX ALLOWABLE WALL HEIGHTS FOR EXTERIOR STUD WALLS, WITH SOLE
	GARAGES (PASSENGER CARS ONLY) 50 ATTICS (NO STORAGE, LESS THAN 5' HEADROOM) 10 10 ATTICS (WITH STORAGE) 20 10	11.01	E= 1.9 X 10E6 PSI, Fb LSL MINIMUM ALLOWABLE	.0WABLE DESIGN STRESSES ARE = 2600 PSI, Fv = 285 PSI, F DESIGN STRESSES ARE AS FOLL = 1700 PSI, Fv = 400 PSI, F	Fc = 750 PSI LOWS:		AND DBL TOP PLATE AND 7/16" OSB EXTERIOR BRACING AND ROW OF 2X6 PURLINS AT 8' HEIGHT (AND AT 16' HEIGHT FOR TALL WALLS), TYI 2X4 @ 16" O.C.: 11'-0" 2X6 @ 16" O.C.: 17'-0"
NOTES		11.02		AY BE RIPPED FROM DEEPER ME	MBERS TO MATCH THE MEMBER	40.00	2X4 @ 12" 0.C.: 12'-0" 2X6 @ 12" 0.C.: 18'-8" DBL 2X4 @ 16" 0.C.: 13'-4" DBL 2X6 @ 16" 0.C.: 21'-0"
NOIES	:: - INDIVIDUAL STAR TREADS ARE TO BE DESIGNED FOR THE UNFORMLY DISTRIBUTED LIVE LOAD OF 40 PSF OR A 300 LB. CONCENTRATED LOAD ACTING OVER AN AREA OF 4 SQ. WHICHEVER PRODUCES THE GREATER STRESS.		PART 12: PRESSURE TREA			10.02	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 SI
	<ul> <li>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</li> </ul>	12.01	TREATED IN ACCORDANCE SHALL BE TREATED IN A	H THE GROUND, CONCRETE OR I WITH AWPA STANDARD C-15. CCORDANCE WITH AWPA STANDA	ALL OTHER EXPOSED LUMBER RD C-2 OR BY ANY METHOD		602.10 OF THE 2018 NCRC. CONTINUOUS SHEATHING HAS BEEN PROVIDE WITH ALTERNATIVE METHODS TO INSURE THE MINIMUM INTENT OF SECTIO OF THE 2018 NCRC HAS REFN MET AND EXCEPTION
	INTERIOR WALLS: 5 PSF LATERAL.		GIVING EQUAL PROTECTIO DECAY RESISTANT WOOD	N. THE BUILDING CODE OFFICE N PER SECTION 19—6(A)	IAY ALSO APPROVE A NATURAL		-BRACED WALL PANELS SHALL BE FASTENED IN ACCORDANCE WITH TABLE PROVIDE CONTINUOUS PANEL UPLIFT RESISTANCE AND COMPLIANCE WITH R602.3.5 AND R802.11 UNLESS NOTED OTHERWISE ON STRUCTURAL PLAN
2.03	BASIC WIND DESIGN VELOCITY OF 120 MPH.		PART 14: STUD SUPPORT	's for beams			-MAY SUBSTITUTE WSP FOR CB -SINGLE JOIST, CONTINUOUS RIM JOIST, OR BLOCKING OF EQUAL DEPTH IS ABOVE AND BELOW ALL BRACED WALLS. NAIL BLOCKING ABOVE WALL TO
2.04	SOIL BEARING CAPACITY 2000 PSF (PRESUMPTIVE). PART 5: CONCRETE AND SLABS ON GRADE	14.01	Steel, Engineered Lume Shall bear as follows	BER, AND FLITCH PLATE BEAMS	BEARING ON A STUD WALL		ABOVE AND BELOW ALL BRACED WALLS. NAIL BLOCKING ABOVE WALL TO WITH 16d TOE NAILS @ 6" O.C. NAIL SOLE PLATE OF BRACED WALL TO B BELOW WITH (3) 16d NAILS @ 16" O.C. BLOCKING AT HORIZONTAL JOINTS
5.01	CAST IN PLACE CONCRETE SHALL BE OF NORMAL WEIGHT, 6% AIR ENTRAINMENT, AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS TYP UNO. ALL CONCRETE, INCLUDING CONCRETE FOR FOOTINGS, IS TO BE CAST IN PLACE, TYP UNO.		SHALL BEAR <u>FULL WIDTH</u> ON BY A MINIMUM OF THREE GA OF STUDS SUCH THAT THE S	DICULAR TO, OR SKEWED RELATI THE SUPPORTING WALL INDICAT NGED STUDS, OR A GANGED STI STUD COLUMN IS AT LEAST AS 1 MULCHEVER IS CREATER TO	ED AND SHALL BE SUPPORTED UD COLUMN WITH A NUMBER WIDE AS THE TRUE WIDTH OF	17.01	VALL LINES ONLY REQUIRED AT SHADED WALLS, UNO. <u>PART 17: KING STUDS</u> KING STUDS FOR OPENINGS IN EXTERIOR WALLS SHALL BE AS FOLLOWS:
5.02	REINFORCED CAST IN PLACE CONCRETE SHALL BE PROPORTIONED, MIXED AND PLACED IN ACCORDANCE WITH THE SPECIFICATIONS OF ACI 318, LATEST EDITION.		Condition particular cari The beam	), WHICHEVER IS GREATER, TYP SHALL BE TAKEN TO ENSURE	STUD COLUMN IS CENTERED ON	17.01	NUMBER OF KING STUDS
5.03	SLABS ON GRADE, IF ANY, SHALL 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 2" MIN GRANULAR FILL ON SOIL WITH 90%		a minimum of 4 1/2" onto Column typ uno.	END OF A STUD WALL PARALLEL THE WALL AND BE SUPPORTED	BY A TRPL STUD GANGED		MAX_OPENING_WIDTH         5'-0"         9'-0"         13'-0"         17'-0"         21'-0"           2X4         1         2         3         4         5           STUD_SIZE         2X6         1         1         2         2           2X8         1         1         1         2
	MIN STANDARD PROCTOR DENSITY. VAPOR BARRIER MAY BE OMITTED FOR SLABS NOT IN ENCLOSED AREAS	1-1	WHEN THE REAM IS PERPEN	AMS BEARING ON A STUD WALL DICULAR TO, OR SKEWED RELATI	VE TO THE WALL THE BEAM		PART 18: SUBSTITUTIONS
	PART 6: REBAR AND WIRE REINFORCEMENT	F	'or a continuous rim jois	THE SUPPORTING WALL INDICAT ST WHERE APPLICABLE) AND SHA SAME WIDTH AS THE BEAM TYP	all be supported by a	18.01	MATERIAL OR MEMBER SIZE SUBSTITUTIONS OR PLAN DEVARTONS REQUIRE THE WRITTEN AUTHORIZATION OF THE DESIGNERS, UNAUTHORIZED DEVARTIONS ARE THE SOLE
6.01 6.02	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	1	'o be supported by (3) s	TUDS). FOR THE SKEWED CONDI COLUMN IS CENTERED ON THE	TION PARTICULAR CARE SHALL		RESPONSIBILITY OF THE CONTRACTOR.
6.03	WIRE REINFORCEMENT SHALL BE 9 GA AND SHALL CONFORM TO ASTM A1064.	2-1 N	BEAMS BEARING ONTO THE IINIMUM OF 3" ONTO THE W	end of a stud wall parallel All and be supported by a I	. TO THE BEAM SHALL BEAR A	19.01	Part 19: Ownership of structural design The structural design of this plan is the property
	PART 7: MASONRY	14.03	YP UNO. FXTRA JOISTS BEARING	on a stud wall perpendicula	R TO OR SKEWED RELATIVE TO	13.01	OF ENGINEERING TECH ASSOCIATES (ETA). THESE PLANS ARE FOR THE ONE TIME USE AT THE LOCATION INDICATED
7.01	concrete masonry units shall conform to astm C90 and C55, normal weight, $fM$ = 1,500 psi min	14.04	THE BEAM SHALL BE SU	PPORTED BY ONE ADDITIONAL S D TO FORM A COLUMN SHALL H	STUD.		AND FOR THE CUENT LISTED. ETA ASSUMES NO LIABILITY FOR THESE PLANS IF THEY ARE REPRODUCED, IN WHOLE OR IN PART, FOR CONSTRUCTION AT ANY OTHER LOCATION
	CLAY MASONRY UNITS SHALL CONFORM TO ASTM C62-17 GRADE SW	17.04	THE COLUMN NAILED TO	GETHER WITH ONE ROW OF 10d	NAILS AT 8" O.C. (TWO ROWS		WITHOUT WRITTEN PERMISSION FROM ETA
7.03	MORTAR SHALL BE TYPE S. MORTAR AND GROUT SHALL CONFORM TO ASTM C476, MIN COMPRESSIVE STRENGTH OF 2000 PSI.		BE CONTINUOUS DOWN TO STRUCTURAL ELEMENT SU	5) THE FOUNDATION OR OTHER P (CH AS A BEAM. COLUMNS TRAN SOLIDLY BLOCKED <u>FOR THE FUL</u>	Roperly designed Insferring loads through		
	NOTES			ABBREVIATION	NS		
	UILDER IS RESPONSIBLE FOR REVIEWING PLANS PRIOR TO CONSTRUCTION. THE BUILDER	ABV		FND FOUNDATION	tj triple joist		ALLOWABLE I-JOIST SUBSTITUTION
FOLLO	IMMEDIATELY CONTACT THE ENGINEER OF RECORD (EOR) BEFORE PROCEEDING IF THE WING CONDITIONS ARE NOTED BEFORE OR DURING CONSTRUCTION:	B.E	. BOTH ENDS	FTG FOOTING HDG HOT DIPPED	TYP TYPICAL TRPL TRIPLE		NOTE: MAINTAIN JOIST DEPTH, DIRECTION, AND SPACING SPECIFIED ON PLANS.
	THE WORKING PLANS DO NOT BEAR THE SEAL OF THE EOR THE PLANS CONTAIN DISCREPANT OR INCOMPLETE INFORMATION	BTWN CIF CONC	CAST IN PLACE	galvanized Hgr Hanger LVL Laminated Veneer	TSP TRIPLE STUD POCKET UNO UNLESS NOTED OTHERWISE		SIMPSON FACE SIMPSON TO MANUFACTURER DEPTH SERIES MOUNT HGR FLANGE HOR
respo Ensuf	ERRORS DUE TO A FAILURE TO FOLLOW THE ABOVE PROCEDURES SHALL NOT BE THE INSIBILITY OF THE EOR. FURTHERMORE, IT IS THE RESPONSIBILITY OF THE BUILDER TO TO E THAN ANY REVISIONS ISSUED BY THE EOR ARE PROMPLY DISTRIBUTED TO THE INTRACTORS	CS DIA DBL DJ	Continuous sheathing Diameter Double Double Joist	LUMBER NTS NOT TO SCALE O.C. ON CENTER PSL PARALLEL STRAND	XJ EXTRA JOIST		MANUPACTURER DEPTH SERIES MOUNT HGR FLANGE HOR 
THE E	or does not perform fenestration or venting calculations or any other Ilations that are not directly related to structural engineering.	DSF EQ EA	EQUAL EACH	LUMBER PT PRESSURE TREATED QJ QUAD JOIST SP STUD DOCKET			DUSE CASCADE         14         BU 80005         1032.37/14         1152.37/14           LP CORP         14"         LPI 20+         IUS2.56/14         ITS2.56/14           NORDIC         14"         NI 40X         IUS2.56/14         ITS2.56/14           ROSEBURG         14"         RFPI 40s         IUS2.56/14         ITS2.56/14
	AND FLOOR TRUSSES TO BE DESIGNED BY AN ENGINEER REGISTERED BY THE STATE. FINAL 5 DRAWING SHOULD BE SUBMITTED TO THE EOR FOR REVIEW	FLG FL PL FLF	FLITCH PLATE	sp stud pocket Sq square			HOSEBURG         14         RFP1 405         1032.36/14         1152.36/14           WEYERHAEUSER         14"         TJI 210         IUS2.06/14         ITS2.06/14           WEYERHAEUSER         14"         EEI–20         IUS2.37/14         ITS2.73/14
		1			1	J	JOISTS NOT LISTED IN THE ABOVE TABLE MAY BE USED PROVIDED THEY MEET OR EXCEED THE PROPERTIES OF THOSE LISTED. SUBSTITUTE USP BRAND HANGERS WITH EQUIVALENT VALUES AS DESIRED.

