Residence for

Garman Homes Lot 0103 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 ELECTRICAL PLANS M FIRST & SECOND FLOOR MECHANICAL PLANS P FIRST FLOOR PLUMBING PLAN D CONSTRUCTION DETAILS	S1FOUNDATION PLAN & FIRST FLOOR FRAMING PLANS2SECOND FLOOR FRAMING PLAN & ROOF FRAMING PLANS3OPTIONAL SCREEN PORCH DETAILSSD1STRUCTURAL DETAILSSD2STRUCTURAL DETAILSSD3STRUCTURAL DETAILSSPECSTRUCTURAL NOTES
GENERAL NOTES	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.).	 HOUSE IS DESIGNED FOR 115 MPH ULTIMATE DESIGN WIND SPEED (89 MPH NOMINAL DESIGN WIND SPEED), EXPOSURE B.
2. DIMENSIONS SHOWN ON DRAWINGS GOVERN OVER SCALE.	 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" FROM THE CORNER.
3. STUD WALL DESIGN SHALL CONFORM TO ALL N.C.S.R.B.C. REQUIREMENTS	4. MEAN ROOF HEIGHT: 35'-0"
 CONTRACTOR SHALL USE TEMPERED SAFETY GLASS IN ALL LOCATIONS AS REQUIRED BY N.C.S.R.B.C., 2018 EDITION, SECTION R308.4. 	 COMPONENT & CLADDING DESIGNED FOR THE FOLLOWING LOADS: MEAN ROOF HGT: UP TO 30' 30'-1" TO 35' 35'-1" TO 40' 40'-1" TO 45'
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.	ZONE 1 16.5,-18.0 17.3,-18.9 17.3,-18.9 ZONE 2 16.5,-21.0 17.3,-22.1 17.3,-22.1 ZONE 3 16.5,-21.0 17.3,-22.1 17.3,-22.1 ZONE 4 18.0,-19.5 18.9,-20.5 18.9,-20.5
 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. 	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. ALL ANGLED WALLS SHOWN ON FLOOR PLANS ARE 45 UNLESS NOTED OTHERWISE.	 MAXIMUM GLAZING U-FACTOR: .35 INSULATING VALUES: CEILING: R-38 / WALLS: R-15 / FLOOR: R-19
8. ALL WINDOWS SHALL HAVE A MINIMUM DPI RATING OF 25. BUILDER SHALL VERIFY WITH WINDOW MANUFACTURER THAT UNITS	SLABS: R-10. CODE REFERENCE: TABLE N1102.1
INSTALLED MEET THESE REQUIREMENTS AS PER N.C.S.R.B.C., 2018 EDITION, TABLE 301.2(4).	AREA CALCULATIONS
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.	HEATED (SQ. FT.) UNHEATED (SQ. FT.) UNFINISHED (SQ. FT.) BASEMENT: N/A GARAGE: 428 1ST FLOOR: N/A 1ST FLOOR: 848 FRONT PORCH: 81 2ND FLOOR: N/A
MATERIALS LEGEND	2ND FLOOR: 1186 PATIO: 100 3RD FLOOR: N/A ATTIC: N/A TOTAL: N/A

MATERIALS LEGEND EARTH/COMPACT FILL FINISH WOOD ROUGH WOOD CONCRETE BLOCKING

	BRICK	BLOCKING
\sim	CONCRETE BLOCK/STONE	PLYWOOD
	STEEL	BATT INSULATION
	ALUMINUM	RIGID INSULATION

ATTIC VENTILATION REQUIREMENTS NATURAL ROOF VENTILATION MECHANICAL ROOF VENTILATION

CALGULATIONS	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

HEATED (SQ	. FT.)	UNHEATED (SO	Q. FT.)	UNFINISHED	(SO FT)
BASEMENT: 1ST FLOOR: 2ND FLOOR: ATTIC: GARAGE:	N/A 848 1186 N/A N/A	GARAGE: FRONT PORCH: PATIO:	428 81 100	1ST FLOOR: 2ND FLOOR: 3RD FLOOR: TOTAL:	N/A N/A N/A N/A
TOTAL:	2034	TOTAL:	609	OVERALL DIMEN WIDTH: DEPTH:	I <u>SIONS</u> 33'-8" 52'-6"

FOUNDATION VENTILATION CALCULATIONS

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

NOT APPLICABLE WITH SLAB FOUNDATIONS



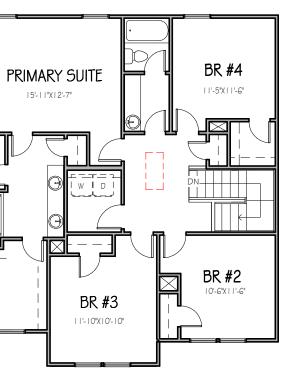






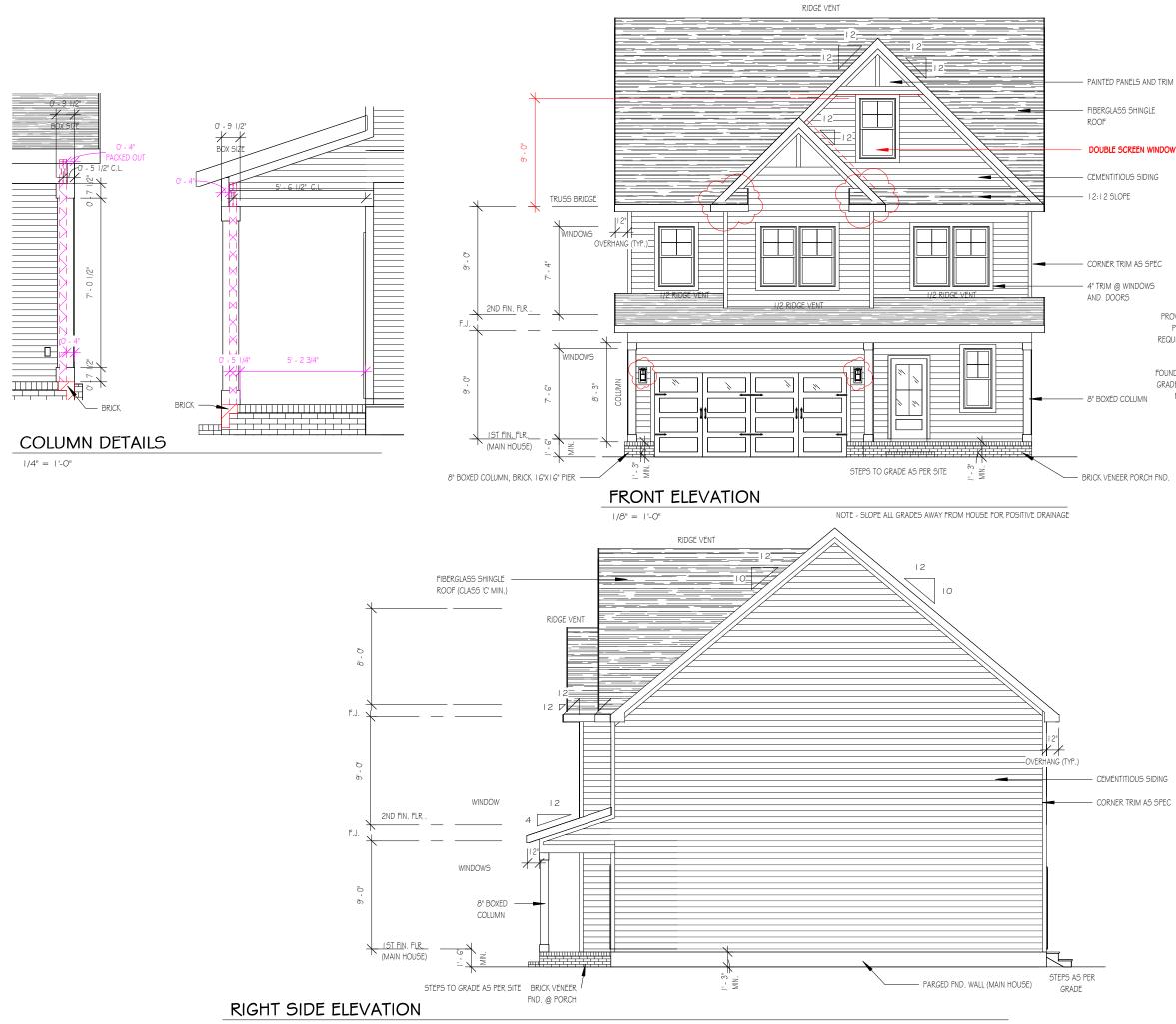
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2



1/8" = 1'-0"

NOTE: PROVIDE RAILS @ PORCH ONLY IF REQUIRED BY CODE

15" MIN. HGT. FOUNDATION FRONT GRADE TO FINISHED FRONT PORCH

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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LEFT SIDE ELEVATION

8' - 0"

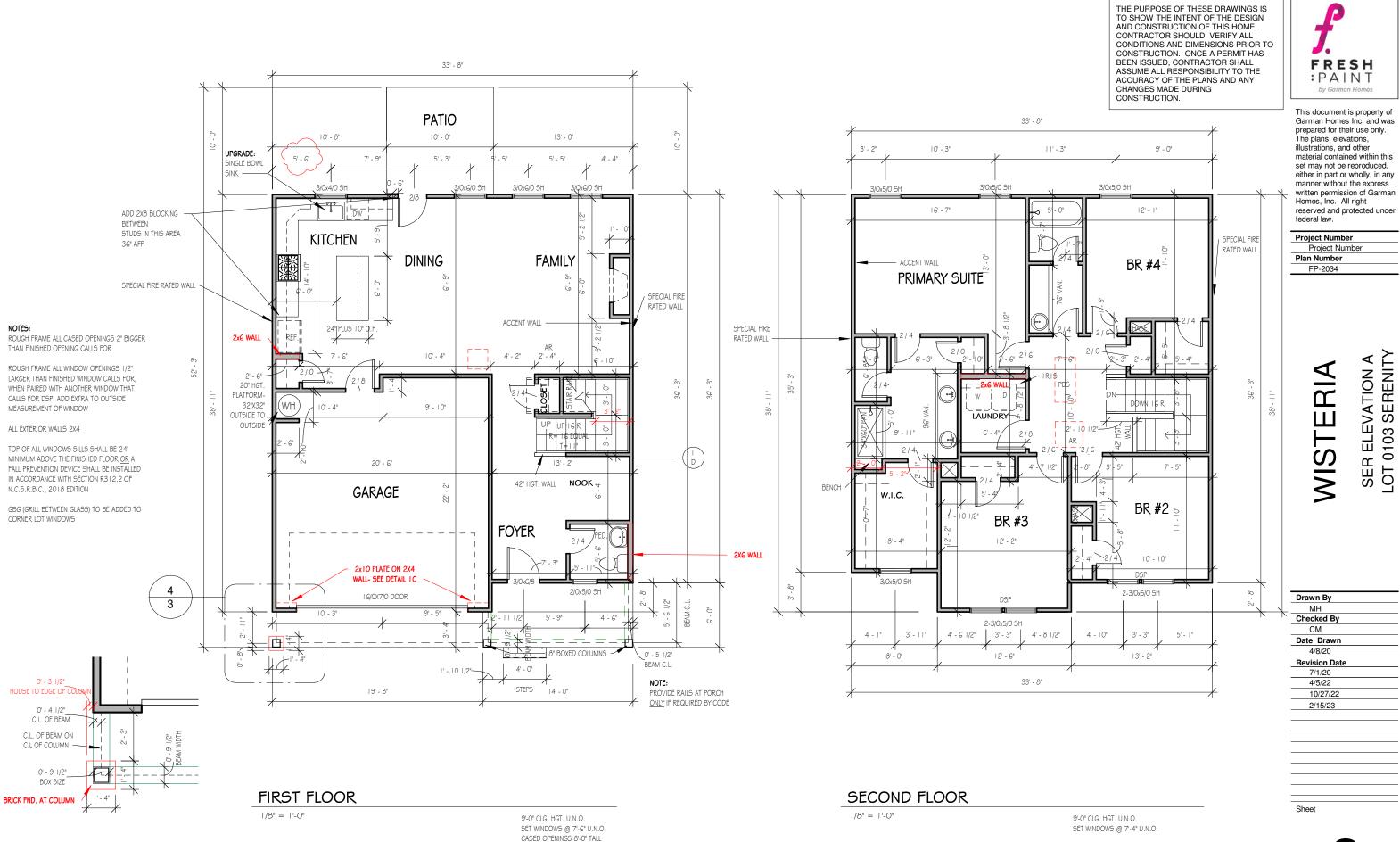
F.J.

9' - 0"

F.J

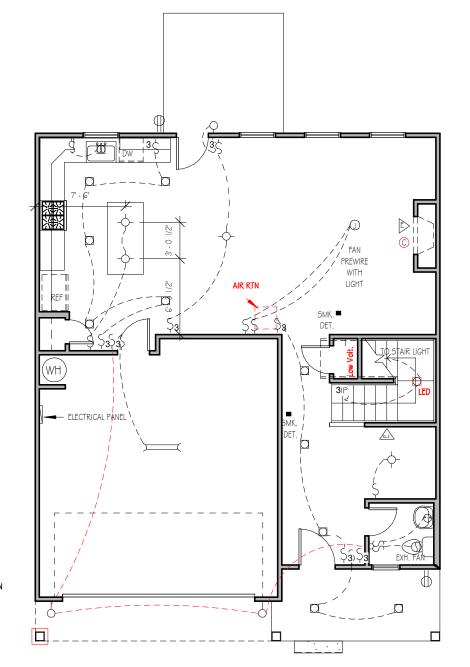
9 - 0"

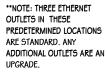
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GARAGE COLUMN DETAIL

|/4" = |'-0"

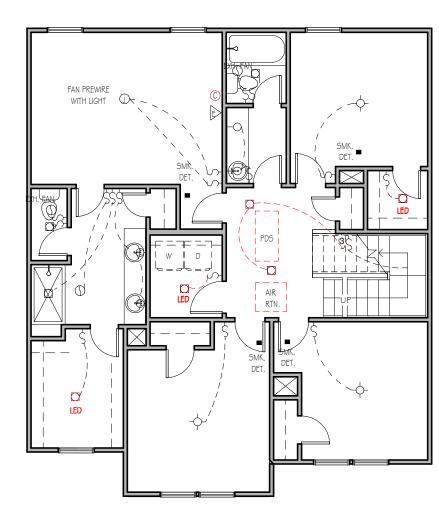




FIRST FLOOR ELECTRICAL PLAN

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 LECEND

-¢ Liehr forung
S - FAWLIGHT
OW- WATERPROOF OUTLET
CI - RECESSED LIGHTING
+ - BINKLE PULL GATCH
B - D-WAY SINTCH
\$ - 4-MAY SMITCH
F - DHHER SHITCH
- SMOKE DETECTOR
А - Наско Цанть
V - ErtsALL SPOTS
0 DVPLEX RECEPTACLE (1694)
220 VOLT REGETTACLE
• - BWITCHED RECEPTAGLE (TOP WIRE ONLY)
GROUND FAILT CIRCUIT INTERRUPTOR
- TRÁCK LIBHTO
- Huketsatikr Lisetrike
0 - CABLE OUTLET
A - TELEPHONE OUTLET
A - COMPUTER DATA OUTLET
20 DUROLAR ALARM
Image: Strength and the strength Image: Strength and the strength and the strength



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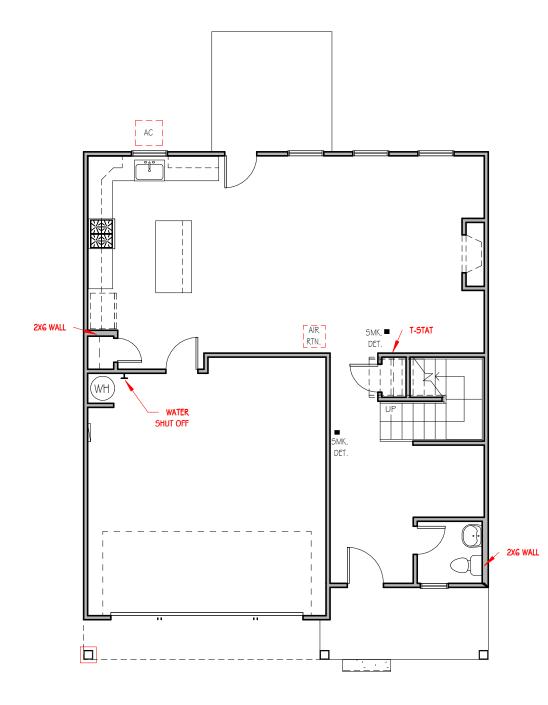
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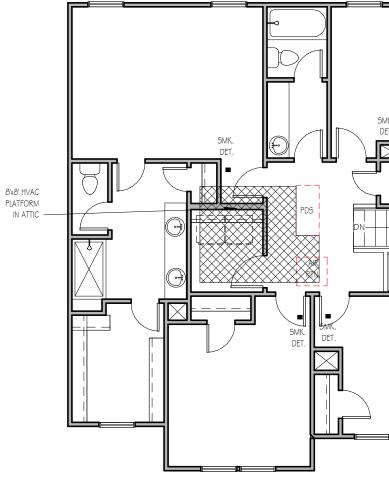
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FIRST FLOOR MECHANICAL PLAN

1/8" = 1'-0"



SECOND FLOOR MECHANICAL PLAN

1/8" = 1'-0"

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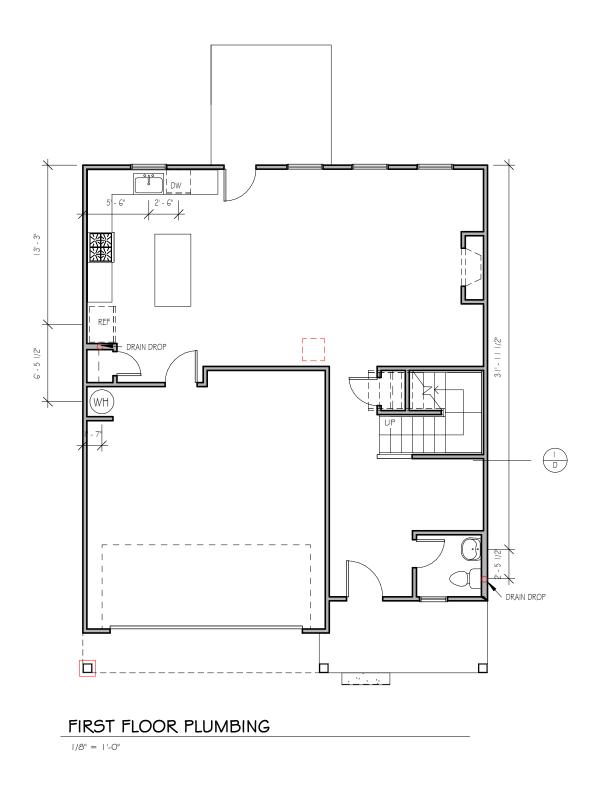


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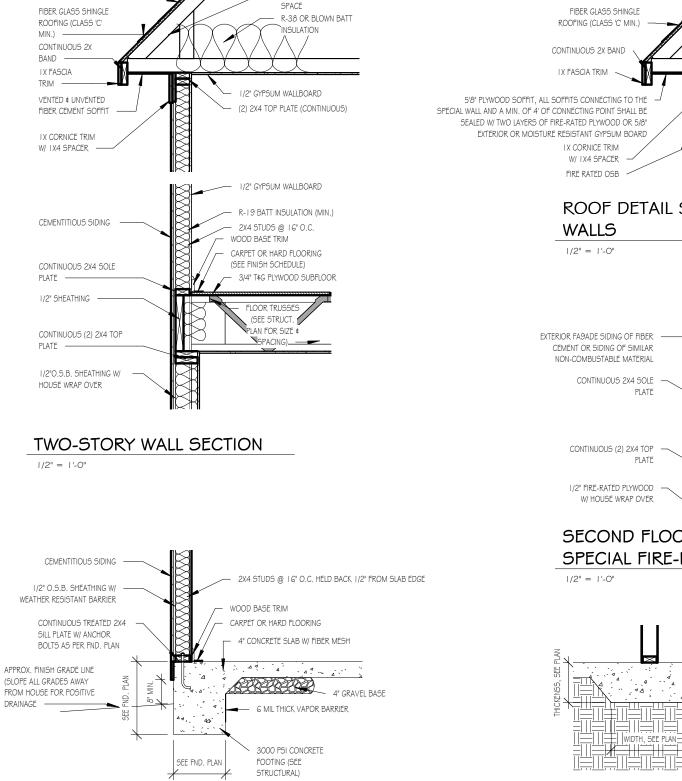
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WISTERIA SER ELEVATION A LOT 0103 SERENITY

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ROOF TRUSSES PER TRUSS

MAINTAIN 2" CLEAR AIR

MANUFACTURER

FOUNDATION DETAIL - SLAB

1/2" = 1'-0"

5/8" PLYWOOD

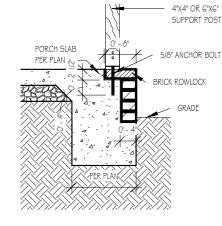
AT JOINTS

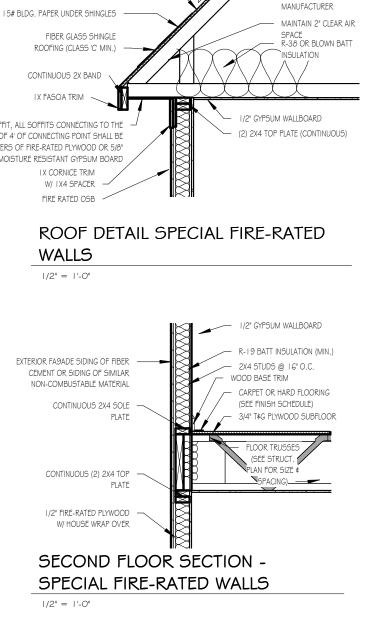
DECKING W/ PLY CLIPS

15# BLDG. PAPER

UNDER SHINGLES

1/2" = 1'-0"





ROOF TRUSSES PER TRUSS

1/2" FIRE-RATED PLYWOOD -

FROM WALL ASSEMBLY

DECKING W/ PLY CLIPS AT JOINTS

EXTENDING AMIN. OF 4' AWAY

1/2" = 1'-0"

FRONT PORCH COLUMNS SUPPORT ATTACHMENT

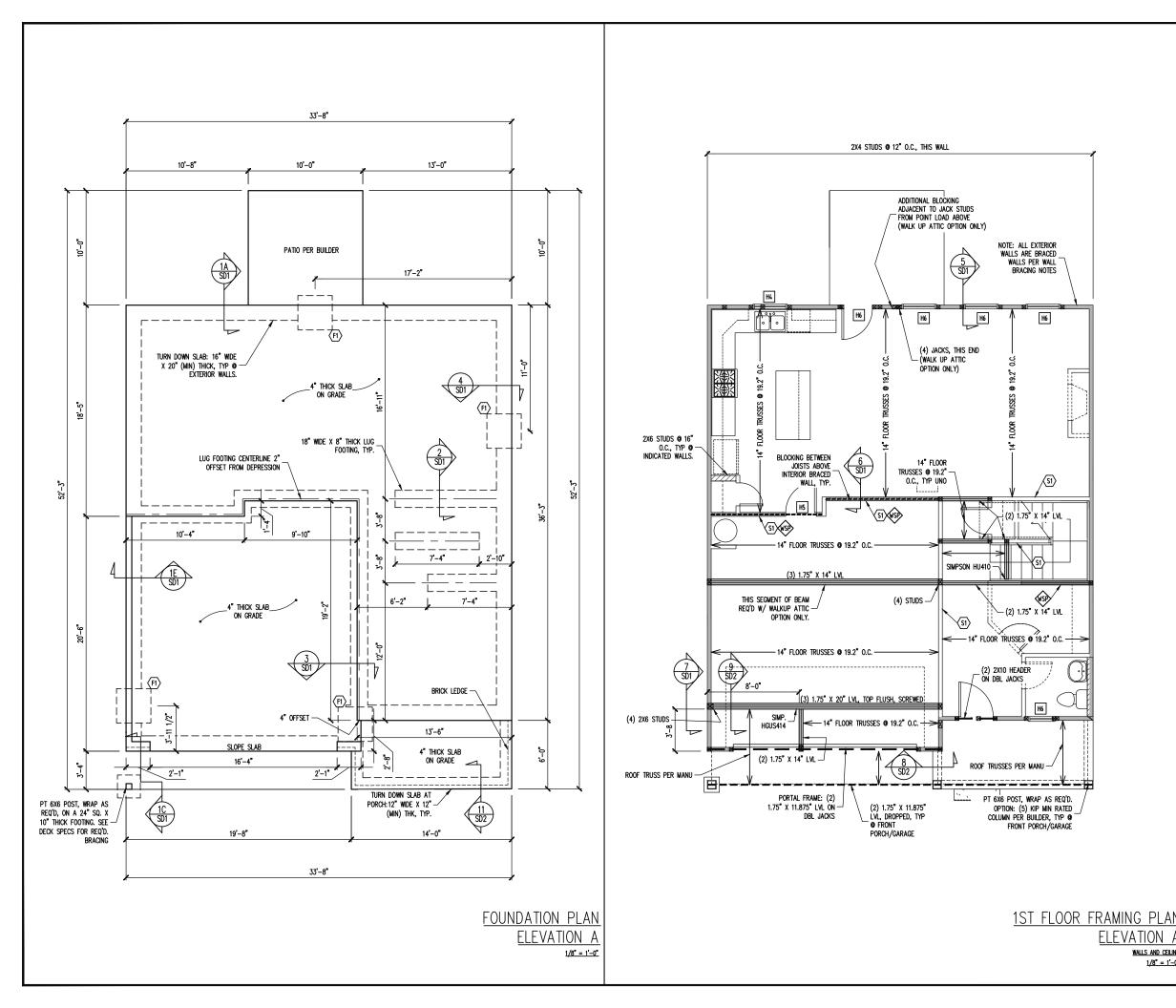
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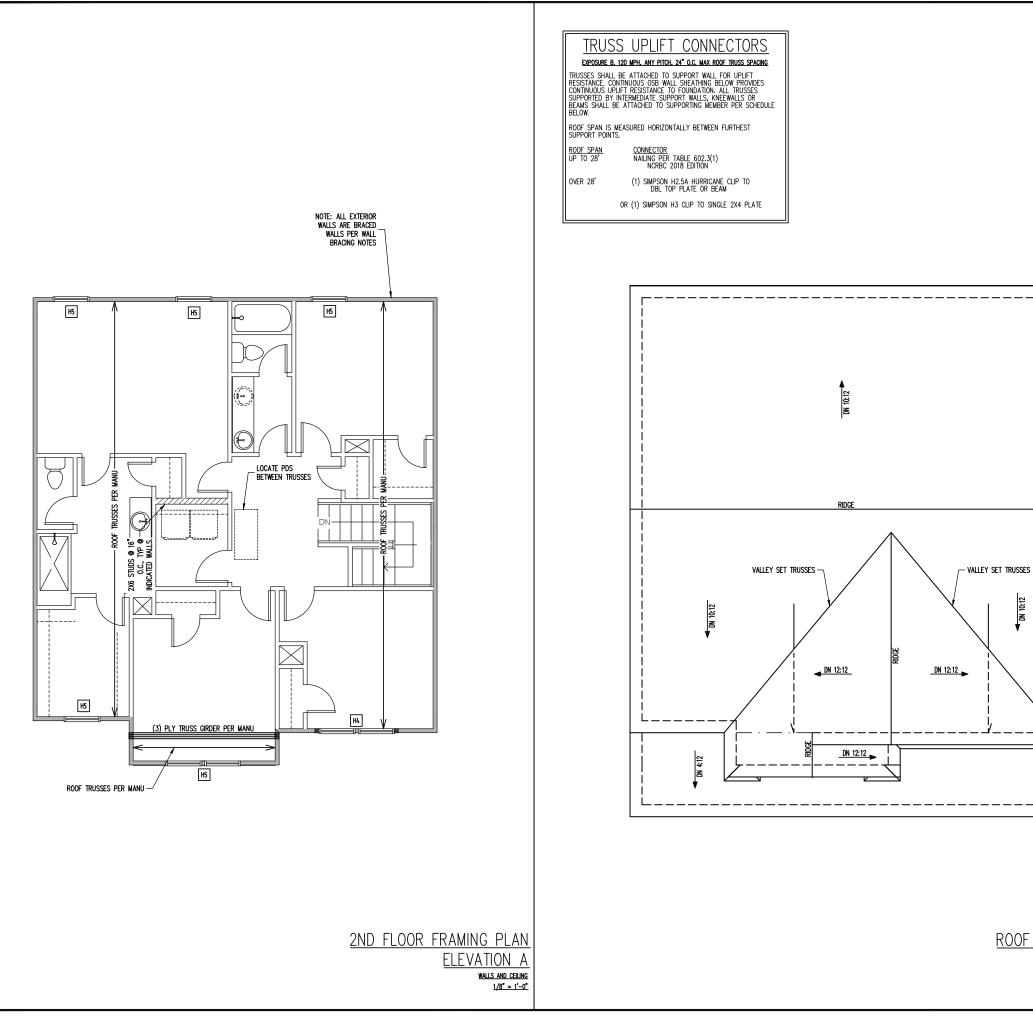


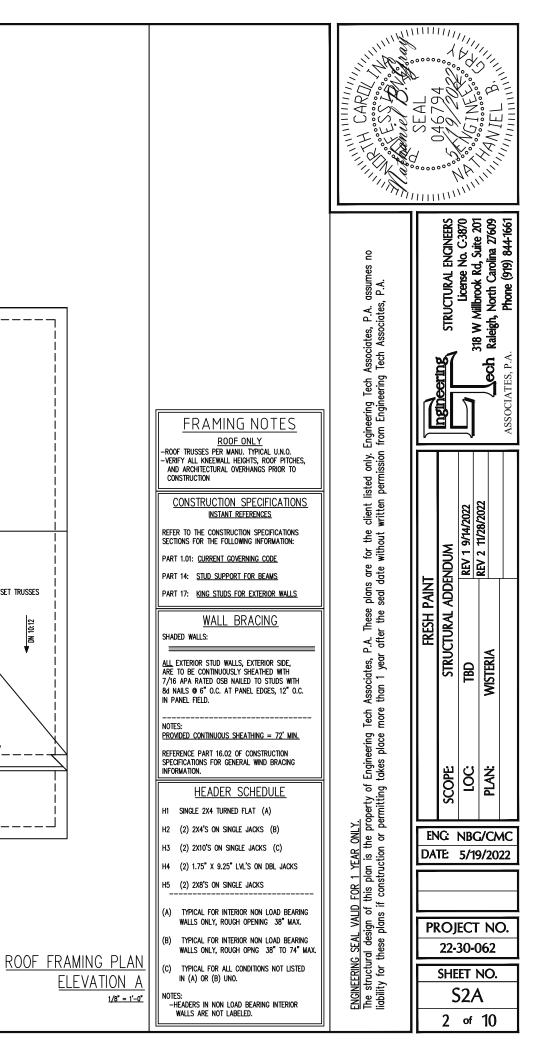
FRESH : PAINT
• P A I IN I by Garman Homes
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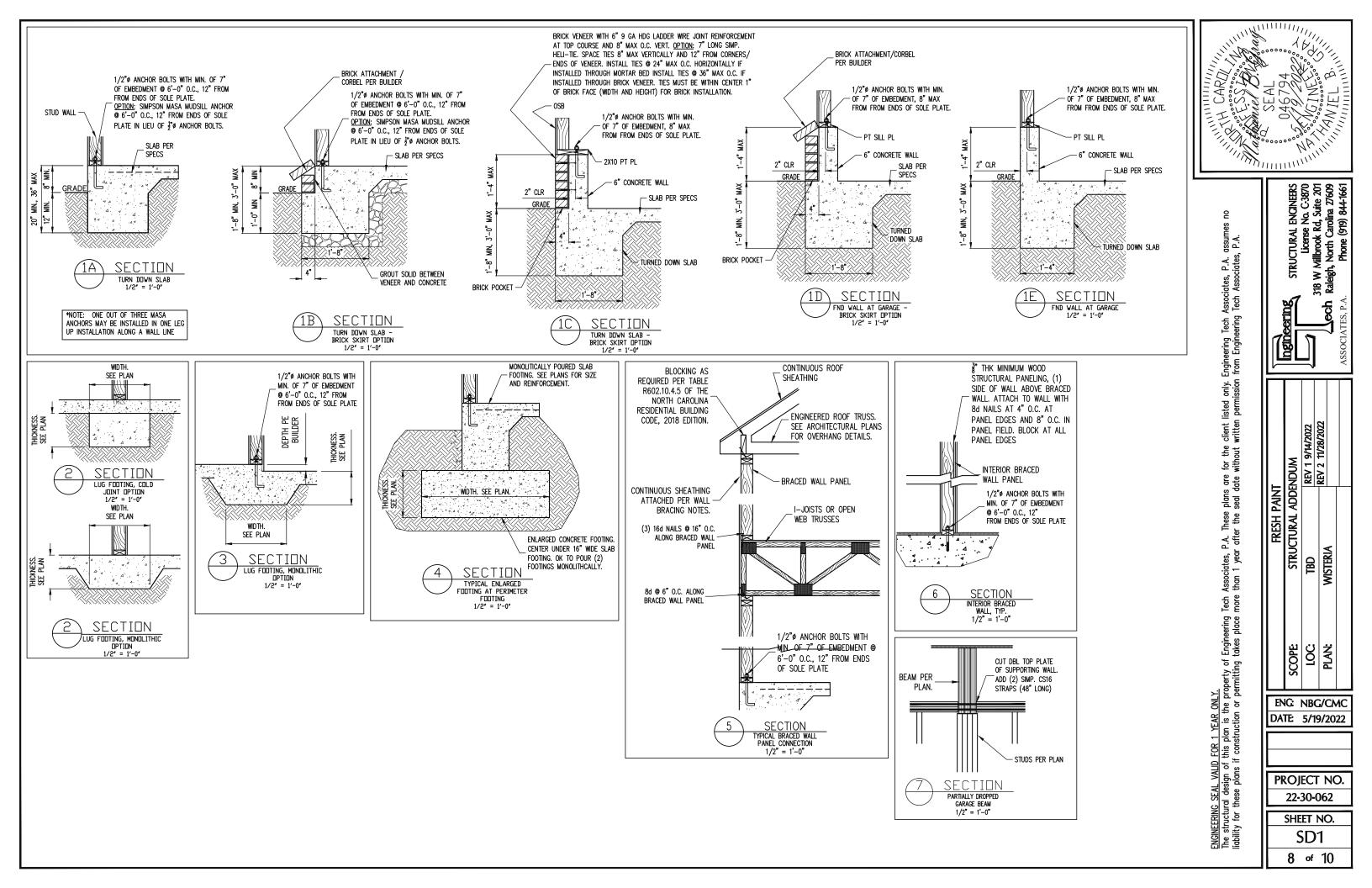
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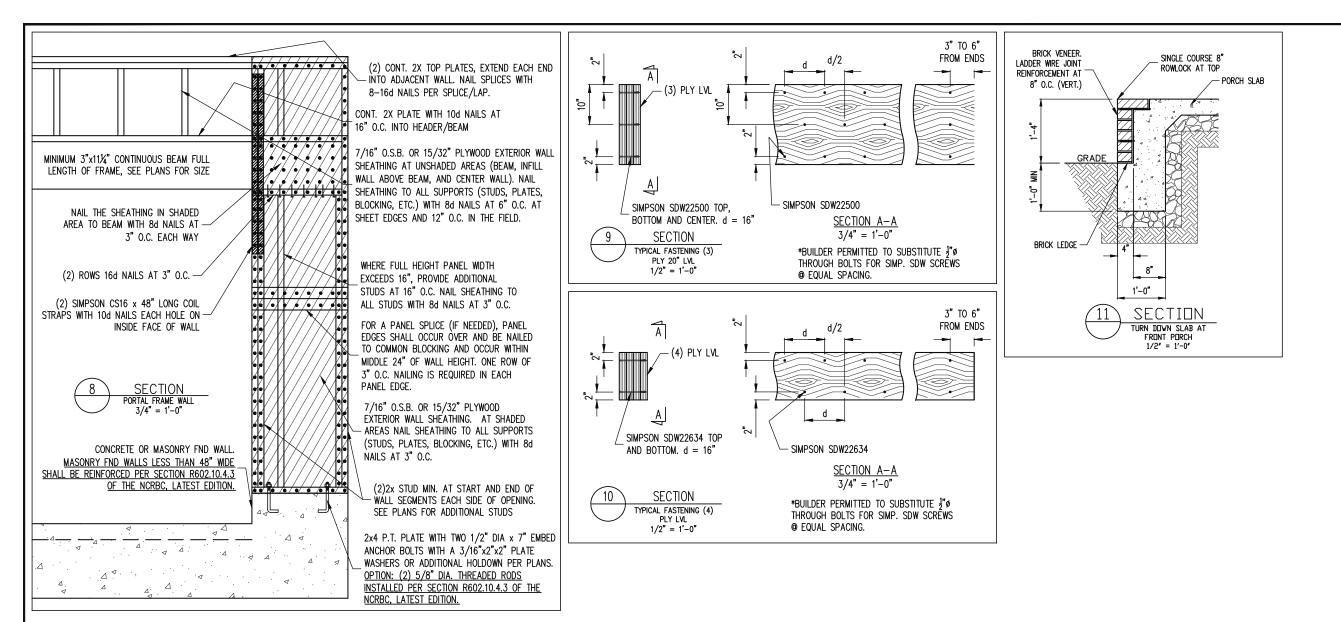


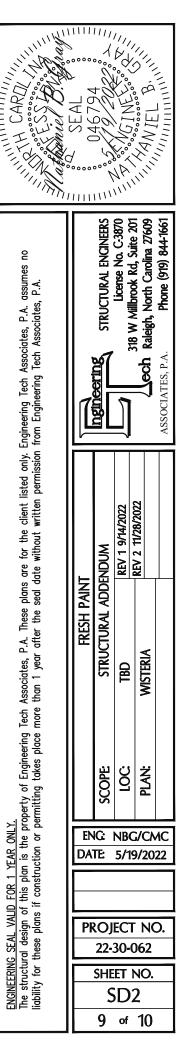
FOUNDATION SCHEDULE F1 12" THICK X 36" SQ. FOOTING NOTES: - HEIGHT AND BACKFILL LIMITATIONS FOR FOUNDATION WALLS ARE TO BE GOVERNED BY THE NCSBC, LATEST EDITION. FRAMING SCEDULE	CARDULI CARDULULULULULULULULULULULULULULULULULULUL
S1 INTERIOR LOAD BEARING WALL: SECURE TO THICKENED SLAB BELOW WITH 1/2"8 RED HEADER ANCHOR (OR EQUAL) @ 6'-0" O.C., 12" MAX FROM ENDS / CORNERS OF WALL, 7" MIN EMBEDMENT INTO SLAB BELOW.	INEERS G-3870 1: 27609
JOIST SUBSTITUTION 14" FLOOR TRUSSES PERMITTED TO BE SUBSTITUTED WITH 14" I-JOISTS. MAINTAIN MINIMUM SPACING AS CALLED OUT ON PLANS.	client listed only. Engineering Tech Associates, P.A. assumes no written permission from Engineering Tech Associates, P.A. written permission from Engineering STRUCTURAL ENCINEERS 2022 318 W Millbrook Red, Suite 201 2022 Contained State 201 2022
SIMP. IUS/ITS3.56/14 HANGERS TO BE SUBSTITUTED WITH SIMP. IUS/ITS2.06/14 HANGER WHEN I-JOISTS HAVE BEEN INSTALLED.	ering SrRUC
CONSTRUCTION SPECIFICATIONS INSTANT REFERENCES REFER TO THE CONSTRUCTION SPECIFICATIONS SECTIONS FOR THE FOLLOWING INFORMATION:	from Engineering Tech Asso from Engineering Tech Ingineering ech
PART 1.01: CURRENT GOVERNING CODE	
PART 14: <u>STUD SUPPORT FOR BEAMS</u>	permission
PART 17: KING STUDS FOR EXTERIOR WALLS	perr
SEE DETAIL / CONSTRUCTION SPECIFICATIONS SHEETS FOR I-JOISTS ALLOWABLE SUBSTITUTIONS	written //2022
WALL BRACING SHADED WALLS:	without Without UM
$ \begin{array}{c} \underline{ALL} \mbox{ Exterior Stud} \ \ walls, \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	
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.	Tech Associates, P.A. These more than 1 year after the FRESH I STRUCTURAL . TBD WISTERIA
NOTES: <u>PROVIDED CONTINUOUS SHEATHING = 145' MIN.</u>	<pre>Ass that the tha</pre>
REFERENCE PART 16.02 OF CONSTRUCTION SPECIFICATIONS FOR GENERAL WIND BRACING INFORMATION.	takes place mort takes place mort DPE
HEADER SCHEDULE	
H1 SINGLE 2X4 TURNED FLAT (A)	tting take
H2 (2) 2X4'S ON SINGLE JACKS (B)	PL/
H3 (2) 2X10'S ON SINGLE JACKS (C)	
H4 (2) 1.75" X 9.25" LVL'S ON DBL JACKS H5 (2) 2X8'S ON SINGLE JACKS	
H5 (2) 2X8'S ON DBL JACKS	DATE 5/19/2022
(A) TYPICAL FOR INTERIOR NON LOAD BEARING WALLS ONLY, ROUGH OPENING 38" MAX.	f cor
(B) TYPICAL FOR INTERIOR NON LOAD BEARING	
WALLS ONLY, ROUGH OPNG 38" TO 74" MAX.	PROJECT NO. The structural design of Indepitity for these plans i SHEET NO. SHEET NO. SHEET NO. SHEET NO. SHEET NO.
I (C) TYPICAL FOR ALL CONDITIONS NOT LISTED IN (A) OR (B) UNO.	
NOTES: -HEADERS IN NON LOAD BEARING INTERIOR	SHEET NO.
WALLS ARE NOT LABELED.	
	1 of 10











CONSTRUCTION	SPECIFICATIONS	
PART 1: GENERAL 1.01 CONSTRUCTION SHALL MEET THE REQUIREMENTS OF THE NORTH CAROLINA RESIDENTIAL CODE, 2018 EDITION. 1.02 DIVENSIONS SHOWN CHALL COVERN OVER SCALE ON THESE DRAWNICS	7.04 MASONRY CONSTRUCTION SHALL CONFORM TO THE SPECIFICATIONS OF ACI 530 7.05 LADDER WIRE REINFORCEMENT SHALL CONFORM TO ASTM A951. 6" MIN LAPS FOR CONTINUOUS WALL APPLICATIONS	WITHIN THE CAVITY FORMED BY THE FLOOR JOISTS. PART 15: NAILING OF MULTI PLY WOOD BEAMS
 DIMENSIONS SHOWN SHALL GOVERN OVER SCALE ON THESE DRAWINGS. 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. 	PART 8: BOLTS AND LAG SCREWS 8.03 ANCHOR RODS AND BOLTS SHALL CONFORM TO ASTM F1554-15 GRADE 36 UNO. BENT ANCHOR BOLTS SHALL HAVE A 2" MIN HOOK UNO	15.01 SAUD SAWN LUMBER JOISTS THAT ARE CANGED TO FORM A BEAM SHALL ADJACENT MEMBERS IN THE BEAM NAILED TOGETHER WITH THREE ROWS O ⊕ 16" O.C. FOR 2X10 OR LARGER, TWO ROWS OF 10d NAILS ⊕ 16" O.C. ROW OF 10d NAILS ⊕ 16" O.C. FOR 2X6 OR SMALLER. STAGGER ROWS 5"
PART 2: DESIGN LOADS 2.01 DESIGN LOADS SHALL CONFORM WITH THE TABLE BELOW:	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	15.02 LVL MEMBERS THAT ARE GANGED TO FORM A BEAM SHALL HAVE ADJACE IN THE BEAM FASTENED TOGETHER PER MANUFACTURERS RECOMMENDAT UND
USE LIVE LOAD (PSF) DEAD LOAD (PSF) BALCONIES, DECKS, ATTICS WITH FIXED STAIR ACCESS, DWELLING UNITS INCLUDING ATTICS WITH FIXED STAIR ACCESS, STAIRS, FIRE ESCAPES 40 10	PART 10: DIMENSIONAL LUMBER 10.01 SOLID SAWN WOOD FRAMING DESIGN IS BASED ON NO. 2 SPRUCE PINE FIR <u>OR</u> SYP #2 FOR JOISTS, RAFTERS, GIRDERS, BEAMS, STUDS, ETC. PART 11: ENGINEERED LUMBER	PART 16: WALL FRAMING AND BRACING 16.01 STUD WALLS SHALL CONSIST OF 2X4 STUDS SPACED AT 16" 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 STUD WALL EXCEPT AS REQUIRED FOR DOOR OW WINDOW OPENINGS. THE K FOR SUCH OPENINGS SHALL BE CONTINUOUS, TYP UNO.
GARAGES (PASSENGER CARS ONLY) 50 ATTICS (NO STORAGE, LESS THAN 5' HEADROOM) 10 10 ATTICS (WITH STORAGE) 20 10 ROOF 20 10 (15 FOR VAULTS)	 11.01 LVL OR PSL MINIMUM ALLOWABLE DESIGN STRESSES ARE AS FOLLOWS: E= 1.9 X 1066 PSI, Fb = 2600 PSI, Fv = 285 PSI, Fc = 750 PSI LSL MINIMUM ALLOWABLE DESIGN STRESSES ARE AS FOLLOWS: E= 1.3 X 1066 PSI, Fb = 1700 PSI, Fv = 400 PSI, Fc = 680 PSI 11.02 LVL OR PSL MEMBERS MAY BE RIPPED FROM DEEPER MEMBERS TO MATCH THE MEMBER 	MAX ALLOWABLE WALL HEIGHTS FOR EXTÉRIOR STUD WALLS, WITH SOLE 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" 2X4 @ 12" O.C: 13'-4" DBL 2X6 @ 16" O.C: 21'-0"
 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 GREATEN 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 	DEPTH SPECIFIED IN THE PLANS PART 12: PRESSURE TREATED LUMBER 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	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 SI 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. CHAS BEEN WET AND EXCEPTED
2.02 INTERIOR WALLS: 5 PSF LATERAL 2.03 BASIC WIND DESIGN VELOCITY OF 120 MPH. 2.04 SOIL BEARING CAPACITY 2000 PSF (PRESUMPTIVE).	GVING EQUAL PROTECTION. THE BUILDING CODE OFFICE MAY ALSO APPROVE A NATURAL DECAY RESISTANT WOOD PER SECTION 19-6(A) PART 14: STUD SUPPORTS FOR BEAMS 14.01 STEEL, ENGINEERED LUMBER, AND FLITCH PLATE BEAMS BEARING ON A STUD WALL	-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 PLAY -MAY SUBSTITUTE WSP FOR GB -SINGLE JOIST, CONTINUOUS RIM JOIST, OR BLOCKING OF EQUAL DEPTH IS ABOVE AND BELOW ALL BRACED WALLS. NAIL BLOCKING ABOVE WALL TO WITH 164 TOE NAILS @ 6" O.C. NAIL SOLE PLATE OF BRACED WALL TO B
PART 5: CONCRETE AND SLABS ON GRADE 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 AS FOLLOWS: 1-WHEN THE BEAM IS PERPENDICULAR TO, OR SKEWED RELATIVE TO THE WALL, THE BEAM SHALL BEAR FULL WIDTH 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 UNO. FOR THE SKEWED	BELOW WITH (3) IS 40 AULS 90 CCL. WALS SOLE FCRIG AT HORIZONTAL JOINTS WALL LINES ONLY REQUIRED AT SHADED WALLS, UNO. PART 17: KING STUDS 17.01 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. 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 7D. SLAB TO BE PLACED ON A 6 MIL VAPOR BARRIER ON 2" MIN GRANULAR FILL ON SOIL WITH 90% 	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 COLUMN TYP UNO.	$\begin{array}{c} \text{NUMBER OF KING STUDS TOK OF ENHAGS IN EARTHON WALLS STALL BE AS FOLLOWS.}\\ \hline \text{NUMBER OF KING STUDS}\\ \hline \text{MAX OPENING WIDTH 5'-0" 9'-0" 13'-0" 17'-0" 21'-0"}\\ \hline \text{ZX4} 1 2 3 4 5\\ \hline \text{STUD SIZE } 2X6 1 1 2 2 2\\ \hline \text{ZX8} 1 1 1 2 2 \end{array}$
MIN STANDARD PROCTOR DENSITY. VAPOR BARRIER MAY BE OMITTED FOR SLABS NOT IN ENCLOSED AREAS <u>PART 6: REBAR AND WIRE REINFORCEMENT</u> 6.01 REBAR SHALL BE DEFORMED STEEL CONFORMING TO ASTM A615 GRADE 60 TYP UNO	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	PART 18: SUBSTITUTIONS 18.01 MATERIAL OR MEMBER SIZE SUBSTITUTIONS OR PLAN DEVIATIONS REQUIRE THE WRITTEN AUTHORIZATION OF THE DESIGNERS. UNAUTHORIZED DEVIATIONS ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
6.02 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. PART 7: MASONRY	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	PART 19: OWNERSHIP OF STRUCTURAL DESIGN 19.01 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 CUENT LISTED. ETA ASSUMES NO LIABILITY
 7.01 CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90 AND C55, NORMAL WEIGHT, fM = 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. 	THE BEAM SHALL BE SUPPORTED BY ONE ADDITIONAL STUD. 14.04 STUDS THAT ARE GANGED TO FORM A COLUMN SHALL HAVE ADJACENT STUDS WITHIN THE COLUMN NALED TOOETHER 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 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 FOR THE FULL WIDTH OF THE STUD COLUMN	FOR THESE PLANS IF THEY ARE REPRODUCED, IN WHOLE OR IN PART, FOR CONSTRUCTION AT ANY OTHER LOCATION WITHOUT WRITTEN PERMISSION FROM ETA
NOTES	ABBREVIATIONS	
THE BUILDER IS RESPONSIBLE FOR REVIEWING PLANS PRIOR TO CONSTRUCTION. THE BUILDER SHALL IMMEDIATELY CONTACT THE ENGINEER OF RECORD (EOR) BEFORE PROCEEDING IF THE FOLLOWING CONDITIONS ARE NOTED BEFORE OR DURING CONSTRUCTION: 1) THE WORKING PLANS DO NOT BEAR THE SEAL OF THE EOR 2) THE PLANS CONTAIN DISCREPANT OR INCOMPLETE INFORMATION	ABV ABOVE FND FOUNDATION TJ TRIPLE JOIST B. BOTH FTG FOOTING TVP TYPICAL B.E. BOTH ENDS HDG HOT DIPPED TRIPL STUD POCKET GIP CAST IN PLACE HGR HANGER UNO UNLESS NOTED CONC CONCRETE LVL LAMINATED VENEER OTHERWISE	ALLOWABLE I-JOIST SUBSTITUTION NOTE: MAINTAIN JOIST DEPTH, DIRECTION, AND SPACING SPECIFIED ON PLANS. SIMPSON FACE SIMPSON TO MANUFACTURER DEPTH SERIES MOUNT HOR FLANGE HOR
ANY ERRORS DUE TO A FAILURE TO FOLLOW THE ABOVE PROCEDURES SHALL NOT BE THE RESPONSIBILITY OF THE EOR. FURTHERMORE, IT IS THE RESPONSIBILITY OF THE BUILDER TO ENSURE THAN ANY REVISIONS ISSUED BY THE EOR ARE PROMPLY DISTRIBUTED TO THE SUBCONTRACTORS	CS CONTINUOUS SHEATHING LUMBER XJ EXTRA JOIST DIA DIAMETER NTS NOT TO SCALE DBL DOUBLE JOIST PSL PARALLEL STRAND DSP DBL STUD POCKET LUMBER	BLUELINX 14" BLI 40 IUS2.56/14 ITS2.06/14 BOISE CASCADE 14" BCI 5000s IUS2.06/14 ITS2.06/14 BOISE CASCADE 14" BCI 5000s IUS2.37/14 ITS2.07/14 BOISE CASCADE 14" BCI 5000s IUS2.37/14 ITS2.37/14 LP CORP 14" LP 20+ IUS2.56/14 ITS2.356/14
THE EOR DOES NOT PERFORM FENESTRATION OR VENTING CALCULATIONS OR ANY OTHER CALCULATIONS THAT ARE NOT DIRECTLY RELATED TO STRUCTURAL ENGINEERING. ROOF AND FLOOR TRUSSES TO BE DESIGNED BY AN ENGINEER REGISTERED BY THE STATE. FINAL TRUSS DRAWING SHOULD BE SUBMITTED TO THE EOR FOR REVIEW	EQ EQUAL PT PRESSURE TREATED EA EACH QJ QUAD JOIST FLG FLANGE SP STUD POCKET FL FLITCH PLATE SQ SQUARE FLR FLOOR	LP CORP 14 LP 207 IDS2.36/14 ITS2.36/14 NORDIC 14" NI 40X IUS2.56/14 ITS2.56/14 ROSEBURG 14" RFPI 40s IUS2.56/14 ITS2.56/14 WEYERHAEUSER 14" TJI 210 IUS2.06/14 ITS2.66/14 WEYERHAEUSER 14" TJI 210 IUS2.06/14 ITS2.06/14
		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.

