

RIGHT SIDE ELEVATION



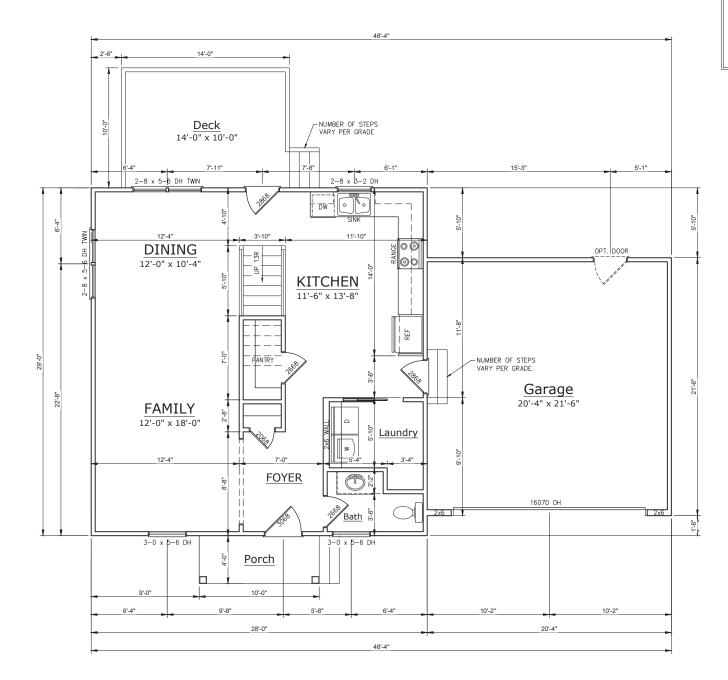
FRONT ELEVATION

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

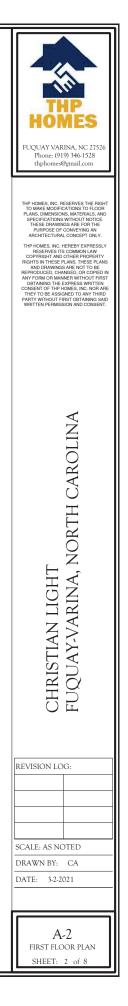


LEFT SIDE ELEVATION

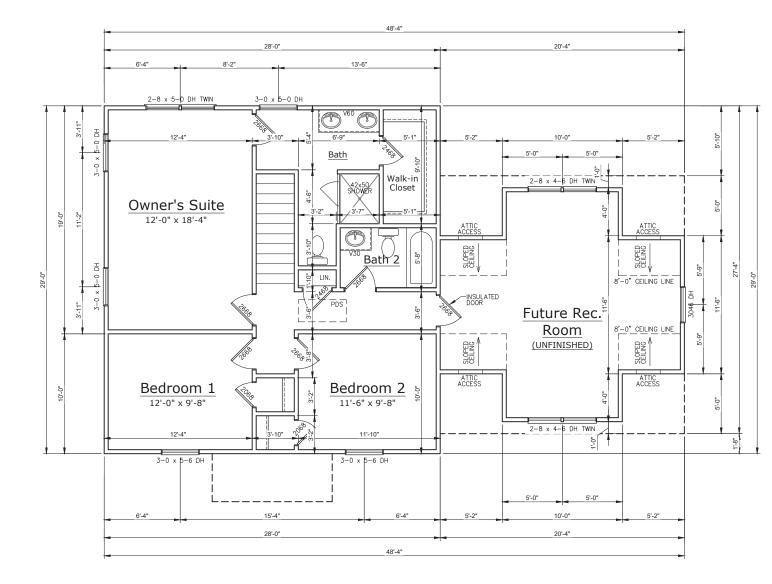




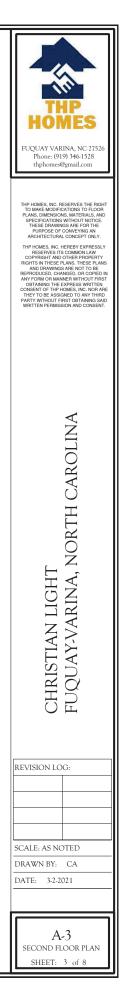
FIRST FLOOR PLAN



SQUARE FOOTAGE						
1st FLOOR:	812 SQ. FT.					
2nd FLOOR:	783 SQ. FT.					
TOTAL FINISHED SPACE:	<u>1595 SQ. FT</u> .					
FRONT PORCH:	40 SQ. FT.					
DECK:	140 SQ. FT.					
GARAGE:	437 SQ. FT.					
FUTURE REC. ROOM:	314 SQ. FT.					



SECOND FLOOR PLAN



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GENERAL NOTES

- ENGINEER'S SEAL APPLIES ONLY TO STRUCTURAL COMPONENTS. ENGINEER'S SEAL DOES NOT CERTIFY DIMENSIONAL ACCURACY OR ARCHITECTURAL LAYOUT INCLUDING ROOF SYSTEM. ENGINEER'S SEAL DOES NOT APPLY TO I-JOIST OR FLOOR/ROOF TRUSS LAYOUT DESIGN AND ACCURACY.
- ALL CONSTRUCTION SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE NORTH CAROLINA RESIDENTIAL CODE (NCRC), 2018 EDITION AND 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 FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE CONSTRUCTION WORK.

3.	DESIGN LOADS (R301)	LIVE LOAD	DEAD LOAD	DEFLECTION
		(PSF)	(PSF)	(LL)
	ROOMS OTHER THAN SLEEPING ROOMS	40	10	L/360
	SLEEPING ROOMS	30	10	L/360
	ATTIC WITH LIMITED STORAGE	20	10	L/240 (L/360 w/ BRITTLE FINISHES)
	ATTIC WITHOUT STORAGE	10	10	L/360
	STAIRS	40	10	L/360
	EXTERIOR BALCONIES	40	10	L/360
	DECKS	40	10	L/360
	HANDRAILS	200 LB OR 50 PLF	10	L/360
	PASSENGER VEHICLE GARAGES	50	10	L/360
	FIRE ESCAPES	40	10	L/360
	GROUND SNOW LOAD	20		,
	WND LOAD	PER SECTION R301.2.	(MEAN ROOF HEIGHT	<35 FEET, EXPOSURE B)

- I-JOIST SYSTEMS ARE DESIGNED WITH 12 PSE DEAD LOAD AND L/480 LL DEFLECTION - FLOOR TRUSS SYSTEMS DESIGNED WITH 15 PSF DEAD LOAD AND L/480 LL DEFLECTION

. THE STRUCTURE IS DESIGNED FOR 120 MPH ULTIMATE DESIGN WIND SPEEDS.

. WALL CLADDING DESIGNED FOR +15.5 PSF AND -20 PSF (+/-) INDICATE POSITIVE / NEGATIVE PRESSURE (TYP).

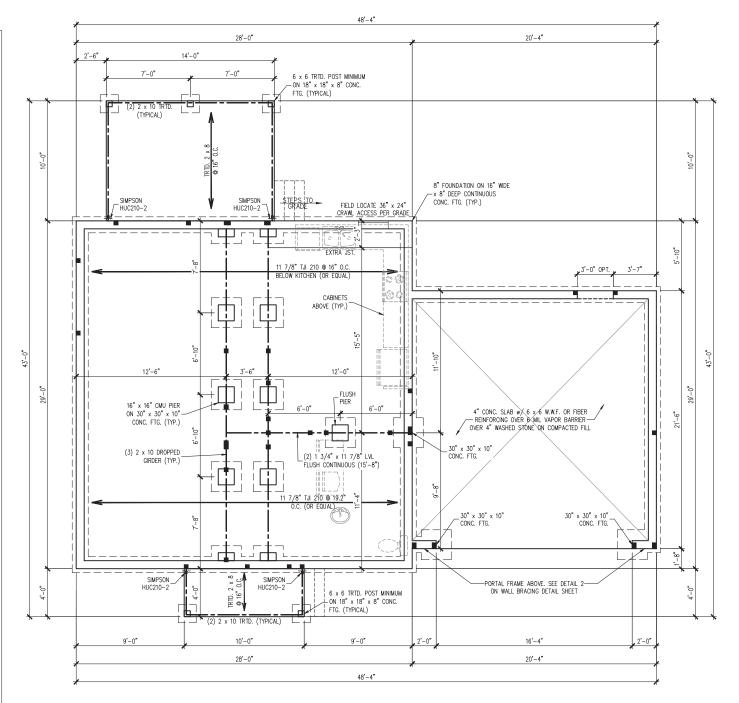
- . ROOF CLADDING DESIGNED FOR: 7/12 TO 12/12 PITCH: +14.2 PSF AND -18 PSF 2.25/12 TO 7/12 PITCH: +10 PSF AND -36 PSF
- THE POSITIVE AND NEGATIVE DESIGN PRESSURE FOR DOORS AND WINDOWS FOR A MEAN ROOF HEIGHT OF 35 FEET OR LESS IS 25 PSF.
- B. ENERGY EFFICIENCY COMPLIANCE AND INSULATION VALUES OF THE BUILDING TO BE IN ACCORDANCE WITH CHAPTER 11 OF THE 2018 NCRC.

FOOTING AND FOUNDATION NOTES

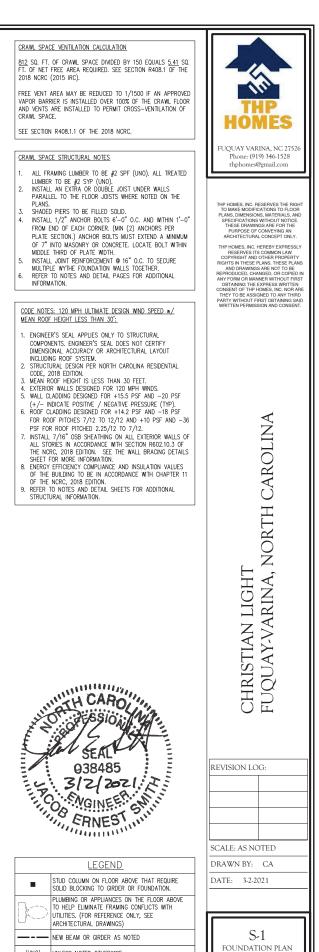
- FOUNDATION DESIGN BASED ON A MINIMUM ALLOWABLE BEARING CAPACITY OF 2000 PSF. CONTACT ENGINEER IF ALLOWABLE BEARING CAPACITY CAN NOT BE ACHIEVED
- FOUNDATION ANCHORAGE TO COMPLY WITH SECTION R403.1.6 OF THE 2018 NCRC.
- . FOR ALL CONCRETE SLABS AND FOOTINGS, THE AREA WITHIN THE PERIMETER OF THE BUILDING 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 COMPACIED TO 95% TO ASSURE UNIFORM SUPPORT OF THE SLAB, AND EXCEPT WHERE APPROVED, THE FILL DETHS SHALL NOT EXCEPT 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-DRANDED OR SAND-GRAVEL MIXTURE SOLIS CLASSIFIED AS GROUP 1, ACCORDING TO THE UNITED SOLI CLASSIFICATION SYSTEM IN ACCORDANCE WITH TABLE R405.1 OF THE NGRC, 2018 EDITION.
- PROPERTY DEWATER EXCAVATION PRIOR TO POLIRING 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.
- CONCRETE SHALL CONFORM TO SECTION R402.2 OF THE NCRC, 2018 EDITION, CONCRETE SHALL HAVE A MINIMUM 28 DAY STRENGTH OF 3000 PSI. CONCRETE REINFORCING STEEL SHALL BE ASTM A615 GRADE 60. WELDED WIRE FABRIC SHALL BE ASTM A185, MAINTAIN A MINIMUM CONCRETE COVER AROUND REINFORCING STEEL OF 3" IN FOOTINGS AND 1 1/2" IN SLABS (UNO).
- MASONRY UNITS SHALL CONFORM TO ACE 530/ASCE 5/TMS 402. MORTAR SHALL CONFORM TO ASTM C270.
- 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 COST FOR SOLID FILENCED PERS. PIERS MAY BE FILLED SOLID WITH CONCRETE OR TYPE M OR S MORTAR. PIERS AND WALLS SHALL BE CAPPED WITH 8" OF SOLID MASONRY.
- THE CENTER OF FACH PIER SHALL BEAR IN THE MIDDLE THIRD OF ITS RESPECTIVE FOOTING. FACH GIRDER SHALL BEAR IN THE MIDDLE THIRD OF THE
- . ALL CONCRETE AND MASONRY FOUNDATION WALLS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PROVISIONS OF SECTION R404 OF THE 2018 NCRC OR IN ACCORDANCE WITH ACI 318, ACI 332, NCMA TR68-A OR ACE 530/ASCE 5/TMS 402 (UNO). 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 2018 NCRC (UNO), CONCRETE FOUNDATION WALLS ARE TO BE REINFORCED PER TABLE R404.1.1(5) OF THE 2018 NORC (UNO). STEP CONCRETE FOUNDATION WALLS DOWN TO 2 x 6 @ 16" O.C. FRAMED WALLS WHERE GRADE PERMITS (UNO).

FRAMING NOTES

- ALL FRAMING LUMBER SHALL BE #2 SPF MINIMUM (UNO). ALL TREATED LUMBER SHALL BE #2 SYP MINIMUM (UNO). ALL FRAMING CONNECTIONS SHALL BE MADE IN ACCORDANCE WITH TABLE R602.3(1) OF THE 2018 NCRC WHERE APPLICABLE (UNO).
- LAMINATED VENEER LUMBER (LVL) MINIMUM PROPERTIES: Eb =2600 PSI, Ev = 285 PSI, E = 1,900,000 PSI, LAMINATED STRAND LUMBER (LSL) MINIMUM PROPERTIES: Fb = 2325 PSI, Fv = 310 PSI, E = 1,550,000 PSI. INSTALL ALL CONNECTIONS PER MANUFACTURER'S SPECIFICATIONS.
- ALL LOAD BEARING HEADERS SHALL CONFORM TO TABLES R602.7(1) AND R602.7(2) OF THE 2018 NCRC UNLESS NOTED OTHERWISE ON THE PLANS. ALL HEADERS SHALL BE SUPPORTED WITH (1) JACK STUD AND (1) KING STUD EACH END (UNO). SECURE THE FIRST KING STUD EACH SIDE OF THE HEADER TO THE HEADER WITH (4) 16d END-NAILS. INSTALL KING STUDS PER SECTION R602.7.5 OF THE 2018 NCRC (UNO).
- ALL BEAMS OR GIRDER TRUSSES THAT FRAME PARALLEL (IN LINE WITH) WITH A SUPPORT WALL SHALL BEAR ON A MINIMUM OF (2) STUDS (UNO). ALL BEAMS OR GIRDER TRUSSES THAT FRAME INTO OR ONTO A PERPENDICULAR WALL SHALL BE SUPPORTED BY A MINIMUM OF (2) STUDS AND HAVE 2" INIMUM BEARING IF A DEAM OR GROET RUSS IS NOTED TO BE SUPPORTED BY (3) OR MORE STUDS, THE BEAM MUST BEAR FULLY ON THE SUPPORT COLUMN FOR THE FULL WALL DEPTH (UNO). BEAM ENDS THAT BUTT INTO ONE ANOTHER SHALL EACH BEAR EQUAL LENGTHS (UNO).
- 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
- BRACED WALL PANELS SHALL BE CONSTRUCTED AS NOTED ON THE PLANS, THE WALL BRACING DETAIL SHEET, AND IN ACCORDANCE WITH SECTION R602.10 OF THE 2018 NCRC.



CRAWLSPACE FOUNDATION PLAN



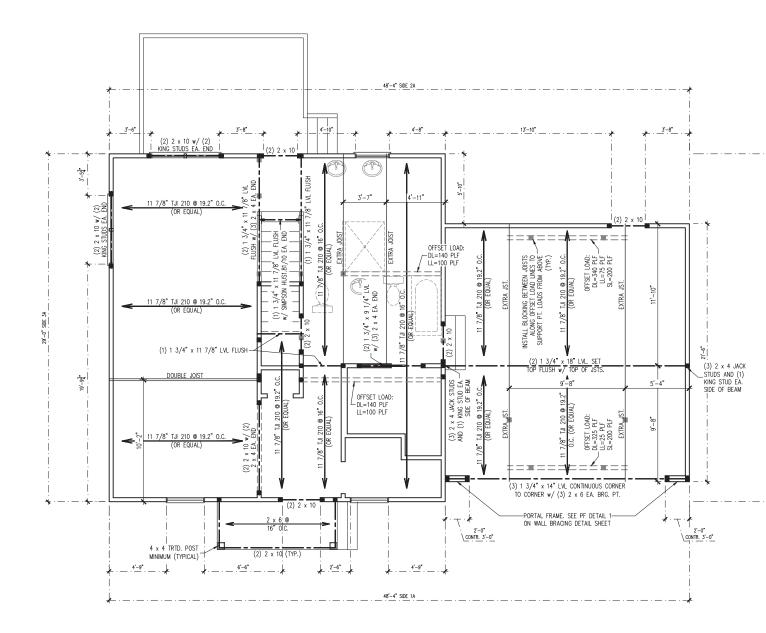
(UNO) UNLESS NOTED OTHERWISE

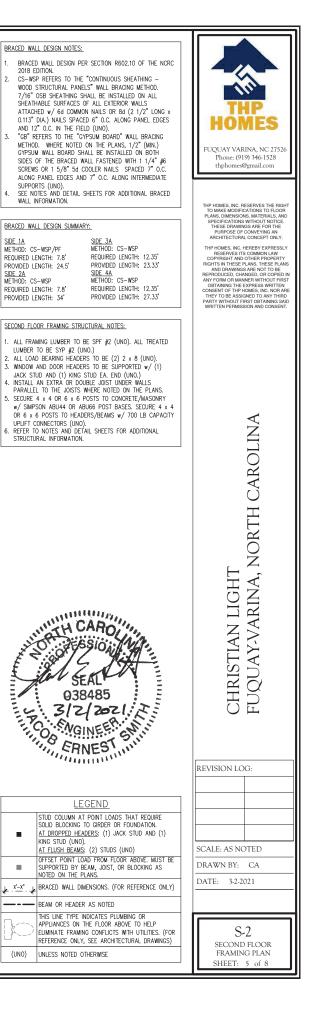
SHEET: 4 of 8



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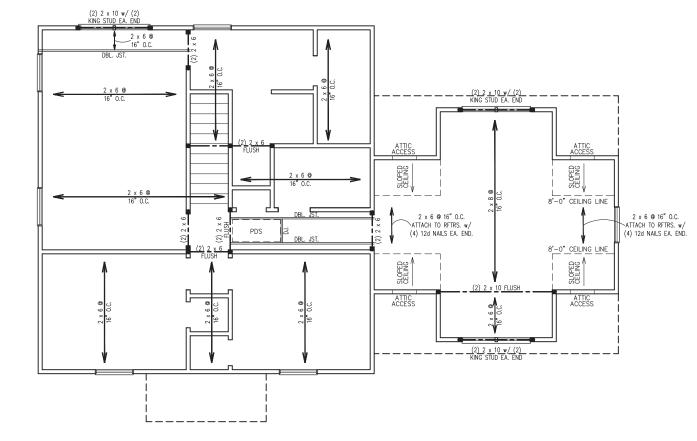


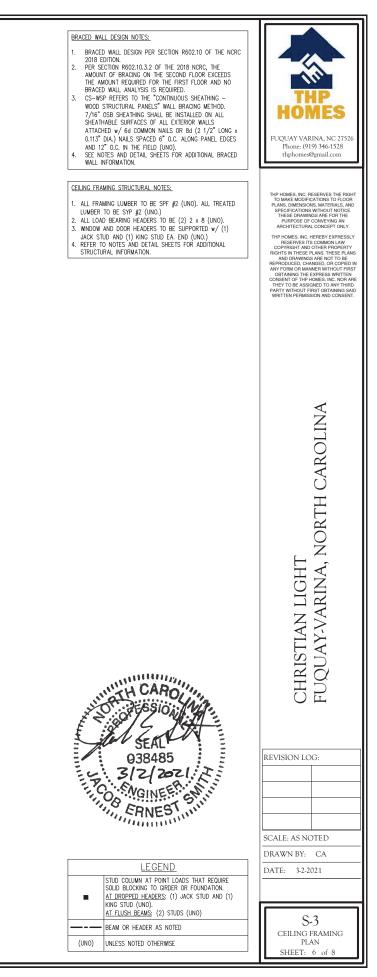




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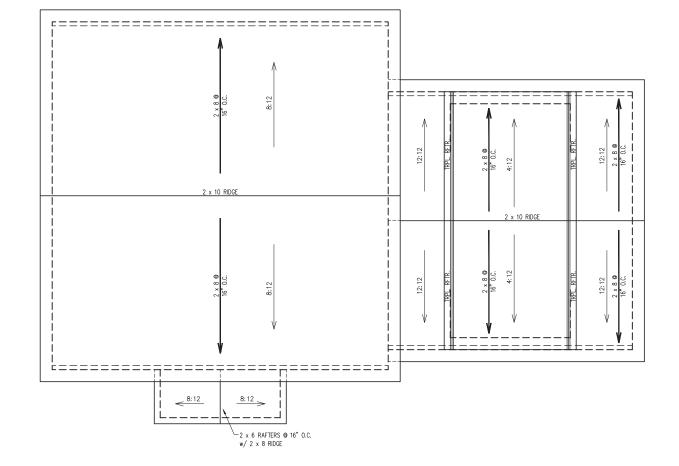




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ROOF PLAN

ROOF FRAMING STRUCTURAL NOTES: ALL FRAMING LUMBER TO BE #2
SHEATH ROOF w/ 7/16" OSB SHEATHING SECURED w/ 8d NAILS @ 6" O.C. ALONG EDGES AND 12" O.C. IN THE FIELD.
INSTALL (1) SIMPSON H2.5A HURRICANE TIE (OR EQUAL) @ EA. RAFTER BEARING.
REFER TO NOTES AND DETAIL SHEETS FOR ADDITIONAL STRUCTURAL INFORMATION. HOMES UQUAY VARINA, NC 275 Phone: (919) 346-1528 thphomes@gmail.com THP HOMES, INC. RESERVES THE RIK TO MAKE MODIFICATIONS TO FLOC PLANS, DIMENSIONS, MATERIALS, A SPECIFICATIONS WITHOUT NOTICI THESE DRAWINGS ARE FOR THE PURPOSE OF CONVEYING AN ARCHITECTURAL CONCEPT ONLY THP HOMES, INC. HERERY EXPRESS 20PYRIGHT AND OTHER PROPERT GHTS IN THESE PLANS. THESE PLAN AND DRAWINGS ARE NOT TO BE PRODUCED, CHANGED, OR COPIED NY FORM OR MANNER WITHOUT FIR: REPRODUCED, CHANGED, OR CO ANY FORM OR MANNER WITHOU OBTAINING THE EXPRESS WR CONSENT OF THP HOMES, INC. N THEY TO BE ASSIGNED TO ANY PARTY WITHOUT EIRST ORTAININ CHRISTIAN LIGHT FUQUAY-VARINA, NORTH CAROLINA NIN CAD H CARO SEALF 038485 3/2/2021/7 00 MGINEER FRNEST REVISION LOG: SCALE: AS NOTED DRAWN BY: CA DATE: 3-2-2021 S-4 ROOF PLAN SHEET: 7 of 8



