RESIDENTIAL CODE SUMMARY

PLANS ARE DESIGNED TO MEET REQUIREMENTS OF 2018 NORTH CAROLINA RESIDENTIAL CODE

STRUCTURE IS DESIGNED TO WITHSTAND 100 MPH, 3 SECOND GUST (85 FASTEST WIND), EXPOSURE B.

ANCHOR BOLTS SHALL BE MIN. 1/2" DIAMETER & SHALL EXTEND A MINIMUM 7" INTO MASONRY OR CONCRETE. ANCHOR BOLTS TO BE NO MORE THAN 6' O.C. AND WITHIN 12" OF THE CORNERS.

MEAN ROOF HEIGHT=25'-10"

COMPONENT AND CLADDING ARE DESIGNED FOR THE FOLLOWING LOADS:

MEAN ROOF HEIGHT	UP TO 30'	30'-1"-35'	35'-1"-40'	40'-1'-45
ZONE 1	16.5,-18.0	17.3,-18.9	18.0,-19.6	18.5,-20.2
ZONE 2	16.5,-21.0	17.3,-22.1	18.0,-22.9	18.5,-23.5
ZONE 3	16.5,-21.0	17.3,-22.1	18.0,-22.9	18.5,-23.5
ZONE 4	18.0,-19.5	18.9,-20.5	19.6, -21.3	20.2,-21.8
ZONE 5	18.0,-24.1	18.9,-25.3	19.6,-26.3	20.2,-27.0

MINIMUM VALUES FOR ENERGY COMPLIANCE

ZONE 4

MAXIMUM GLAZING U-FACTOR=0.35 CEILING R-30 (UNCOMPRESSED)

WALLS R-13 CAVITY + R-2.5 SHEATHING OR R15 CAVITY

FLOORS R-19

MAIN FLOOR AREA: (AREAS CALCULATED TO INSIDE CORNERS OF FRAMED WALLS)

1672 SF 1019 SF 246 SF 313 SF 288 SF CONDITIONED GARAGE FRONT PORCH SCREEN PORCH UTILITY ROOM

<u>UPPER LEVEL AREA:</u>

UNFINISHED BONUS SPACE <u>671 SF</u>

TOTAL CONDITIONED AREA:

<u>1672 SF</u> TOTAL

ATTIC SPACE VENTILATION

1/150 X 3654 SQ.FT. ATTIC AREA=24.4 SQ.FT. NET FREE AREA OF LOUVER REQ'D

METHOD OF VENTILATION

CONTINUOUS ROOF RIDGE VENTING WITH PERFORATED, CONTINUOUS SOFFIT VENTING FOR INTAKE.

CRAWL SPACE VENTILATION

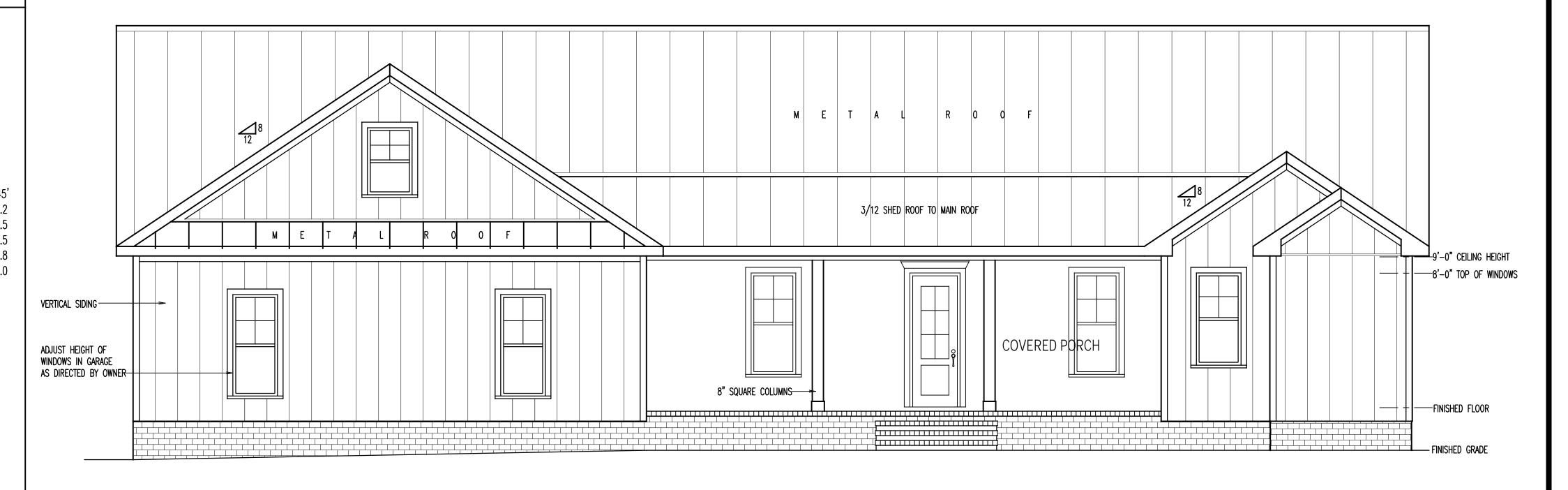
N/A: CRAWL SPACE ENCLOSED WITH INSULATED WALLS

NOTICE TO CONTRACTOR

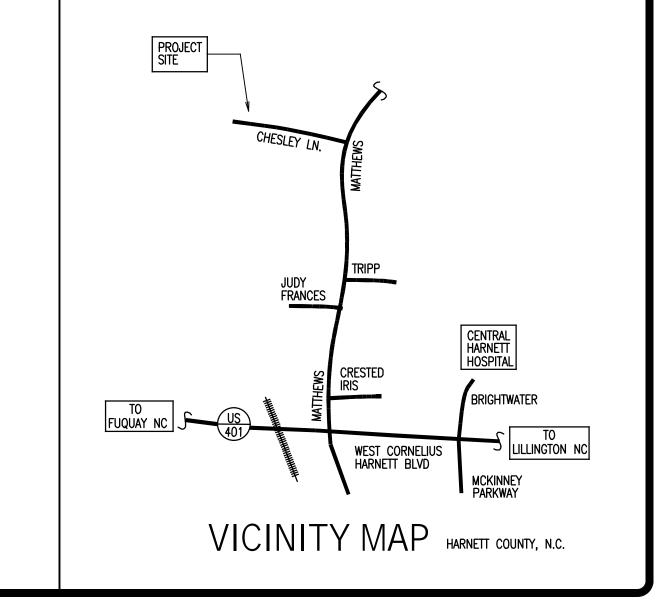
All construction must comply with current NC Building Codes and is subject to field inspection and verification. APPROVED Limited building only review Permit holder responsible for full compliance with the code 11/03/2021

Harnett

NORTH CAROLINA



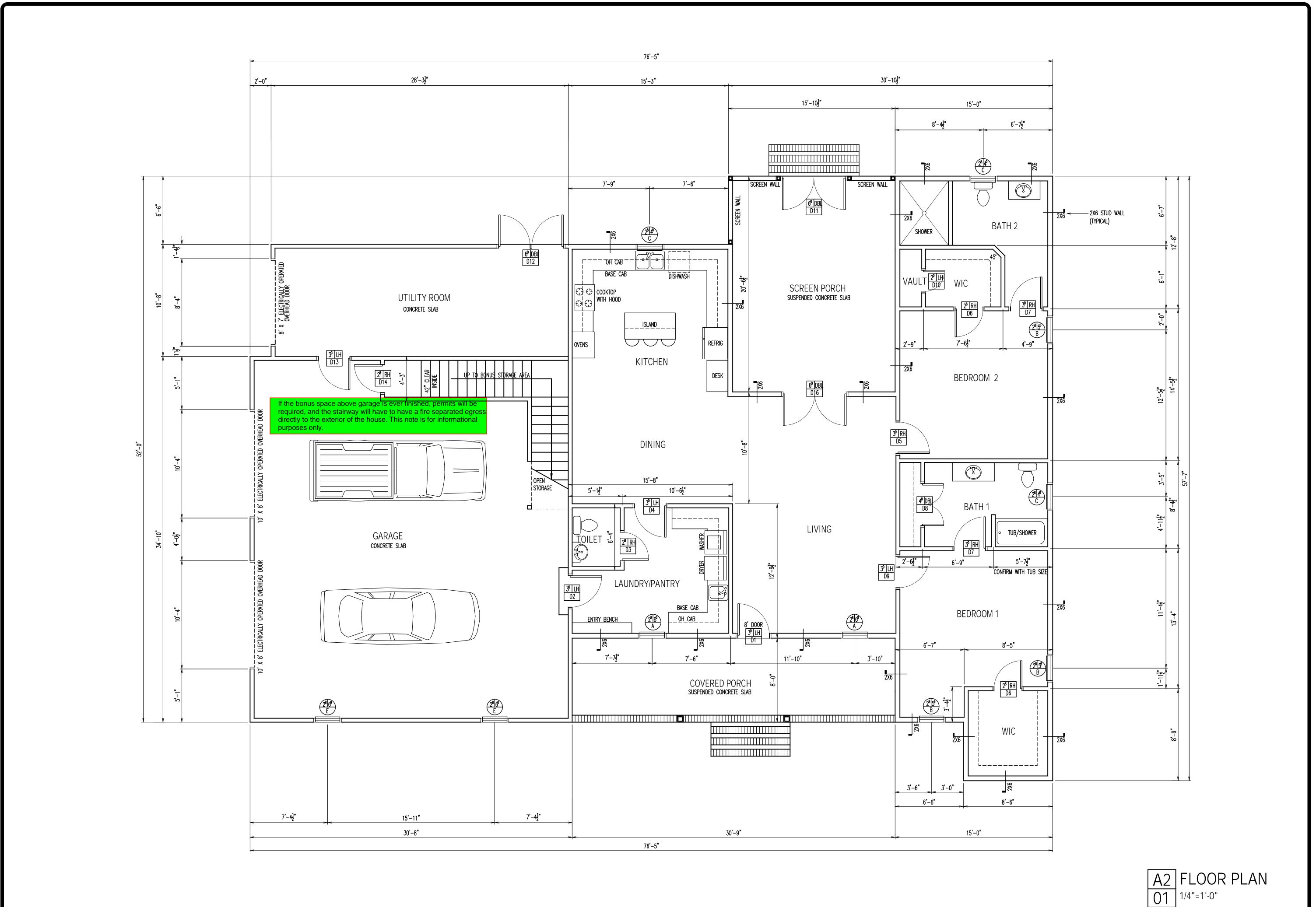




SIDEN COUNTY N.C. GOODWIN I

COVER SHEET AND

SEPTEMBER 2021



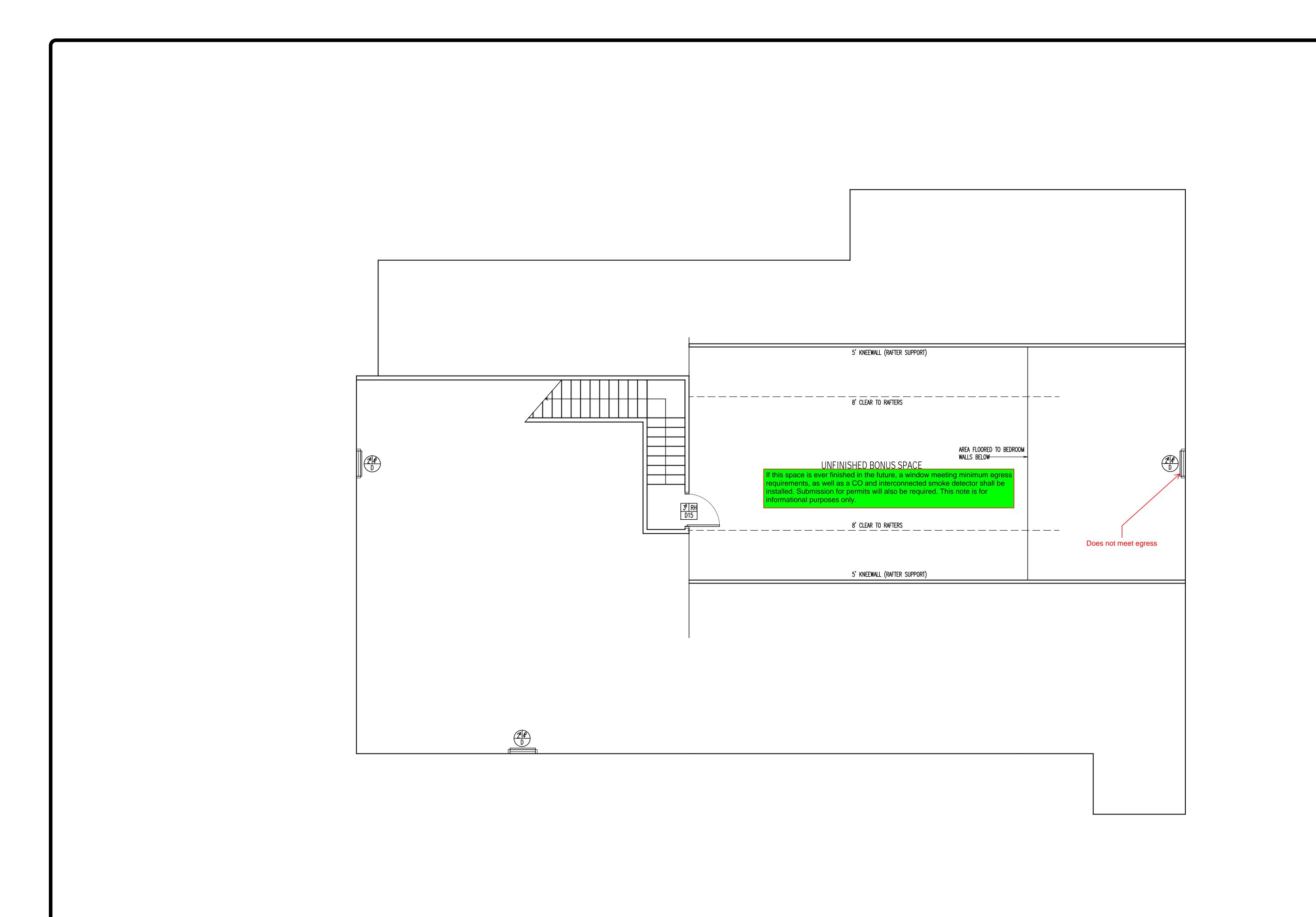
CUSTOM HOUSE PLANS FOR:

GOODWIN RESIDENCE
CHELSEY LANE, HARNETT COUNTY N.C.

DESCRIPTION:
FLOOR PLAN
REVISION:

DATE: SEPTEMBER 2021

DRAWING:



CUSTOM HOUSE PLANS FOR:

GOODWIN RESIDENCE

CHELSEY LANE, HARNETT COUNTY N.C.

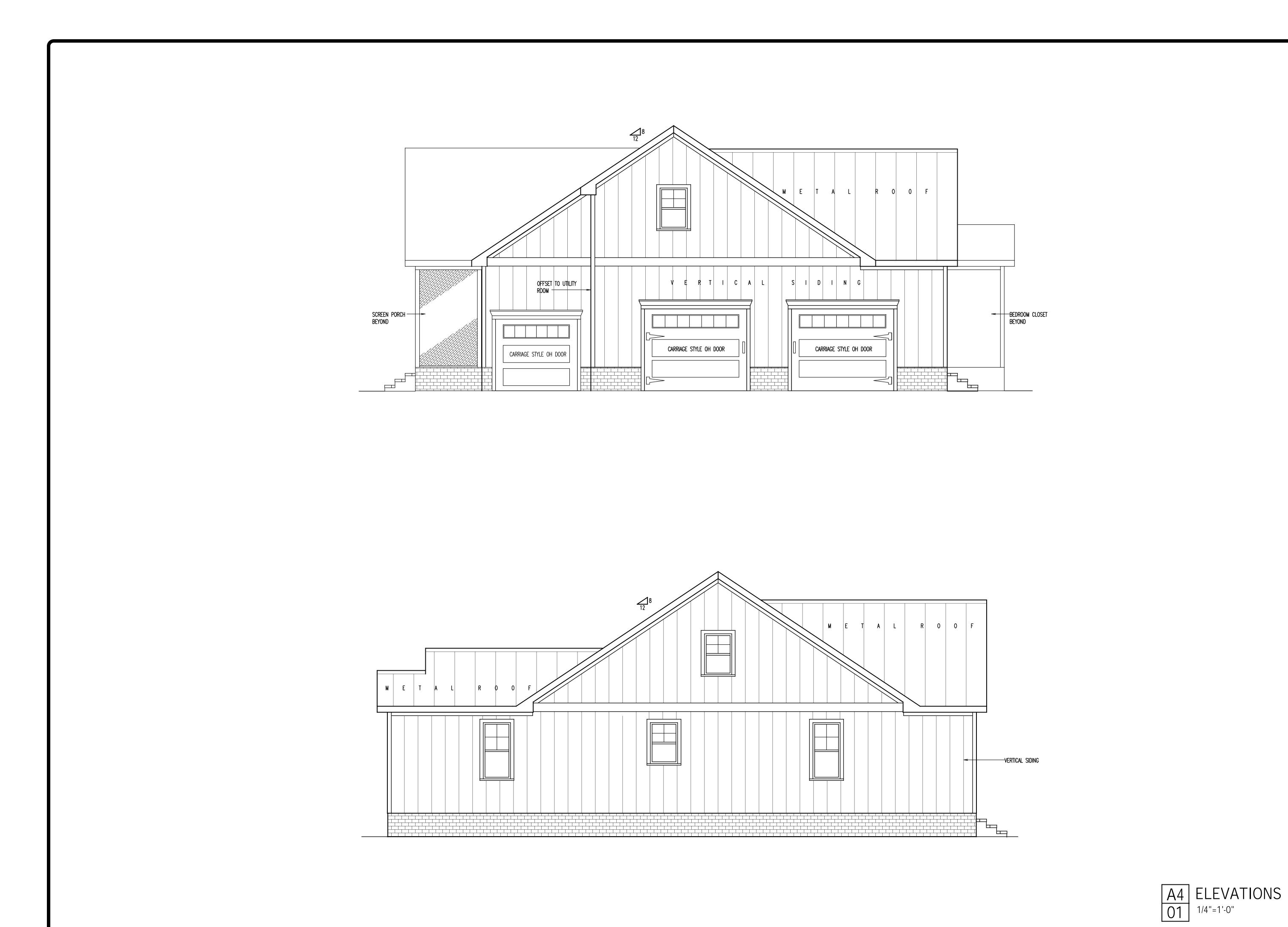
DESCRIPTION: BONUS PLAN

REVISION:

DATE: SEPTEMBER 2021

A3

A3 BONUS PLAN
1/4"=1'-0"



BUILDING DESIGN BY:

S&S CONTRACTING
6349 RIVER ROAD, FUQUAY, NC 27526
35

CUSTOM HOUSE PLANS FOR:

GOODWIN RESIDENCE
CHELSEY LANE, HARNETT COUNTY N.C.

DESCRIPTION: ELEVATIONS

REVISION:

.

DATE: SEPTEMBER 2021

PRAWING:

WINDOW SCHEDULE SCHEDULE MARK X HEIGHT							
MARK	SIZE	DESCRIPTION			NOTES		
Α	2'-8"W X 6'-0"H	DOUBLE HUNG		•	1,4		
В	2'-8"W X 5'-6"H	DOUBLE HUNG	•	•	1,2,4		
С	2'-8"W X 4'-0"H	DOUBLE HUNG			1,4		
D	2'-8"W X 4'-0"H	DOUBLE HUNG			1,4		
E	2'-8"W X 6'-0"H	DOUBLE HUNG			1,4		

<u>WINDOW SCHEDULE NOTES:</u>

1. ALL WINDOWS SHALL BE LOW E, DOUBLE INSULATED PROVIDE SAFETY GLAZING FOR FOR ALL HAZARDOUS LOCATIONS DEFINED IN GLAZING SECTION OF NC BUILDING CODE—RESIDENTIAL CODE.

2. ALL EGRESS WINDOWS SHALL BE SIZED AND MOUNTED TO MEET THE EMERGENCY ESCAPE AND RESCUE OPENING REQUIREMENTS OF NC BUILDING CODE—RESIDENTIAL CODE.

3. MUTTON PATTERNS TO BE SELECTED BY THE OWNER.

DO	OR S	CHEDULE			10	M/2/2	SCHEDULE MA	TH—3º RH—SWING ARK—D1
MARK	WIDTH	HEIGHT	SWING	DESCRIPTION			HARDWARE	COMMENTS
D1	3'-0"	8'-0"	LH	6 LITE WOOD WITH WEATHERSTRIPPING		•	ENTRY W/DEADBOLT	FARMHOUSE STYLE
D2	3'-0"	6'-8"	LH	FIRE RATED WITH WEATHERSTRIPPING	•		ENTRY W/DEADBOLT	FIRE RATED
D3	2'-8"	6'-8"	RH	INTERIOR	•		BATH	
D4	3'-0"	6'-8"	LH	INTERIOR			PASSAGE	
D5	3'-0"	6'-8"	RH	INTERIOR			BEDROOM	
D6	2'-8"	6'-8"	RH	INTERIOR			CLOSET	
D7	3'-0"	6'-8"	RH	INTERIOR	•		BATH	
D8	4'-0"	6'-8"	RH/LH	INTERIOR DOUBLE DOOR	•		CLOSET	
D9	3'-0"	6'-8"	LH	INTERIOR	•		BEDROOM	
D10	2'-0"	6'-8"	LH	INTERIOR	•		ENTRY	VAULT ROOM
D11	6'-0"	6'-8"	RH/LH	SCREEN PORCH DOUBLE DOOR WITH WEATHERSTRIPPING		•	ENTRY	CUSTOM DOORS
D12	6'-0"	6'-8"	RH/LH	EXTERIOR TO UTILITY	•		ENTRY W/DEADBLT	WEATHERSTRIPPING
D13	3'-0"	6'-8"	LH	GARAGE ENTRY TO HOUSE — STEEL			ENTRY W/DEADBLT	FIRE RATED
D14	2'-8"	6'-8"	RH	GARAGE STAIR			PASSAGE	FIRE RATED
D15	3'-0"	6'-8"	RH	GARAGE STAIR TO BONUS			ENTRY	WEATHERSTRIPPING
D16	6'-0"	6'-8"	RH/LH	SCREEN PORCH DOUBLE DOOR		•	PASSAGE	CUSTOM DOORS
	_							

DOORS SCHEDULE NOTES:

1. HARDWARE FINISH TO BE SELECTED BY OWNER.

2. DOOR STYLES TO BE SELECTED BY OWNER.



A5 ELEVATIONS
1/4"=1'-0"

STRUCTURAL EVALUATION BY:
HOWERTON SERVICES, PLLC
LISCENCE # P-1716
ATHEDRAL BELL ROAD, RALEIGH N.C. 27614

BUILDING DESIGN BY:

S&S CONTRACTING

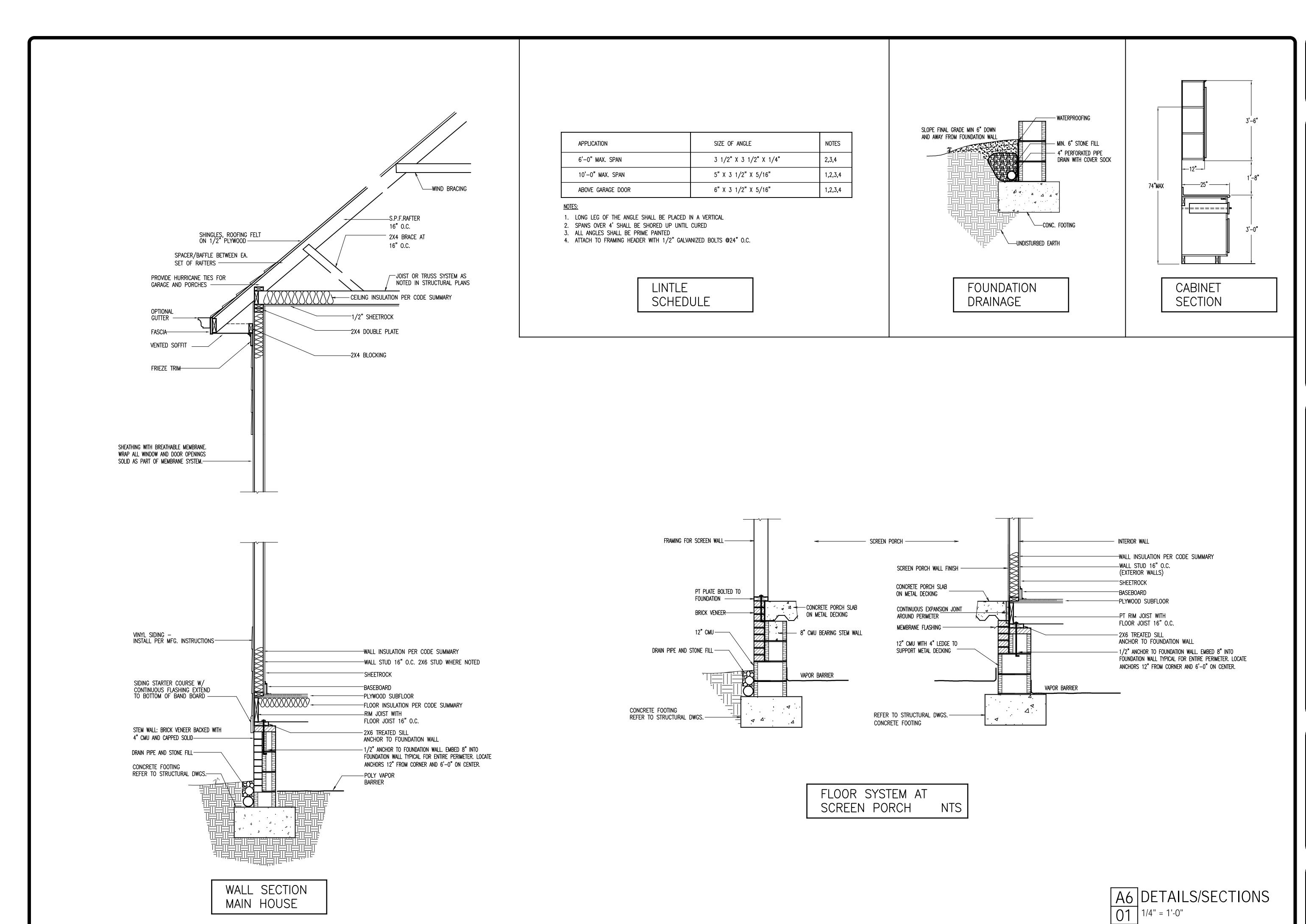
9 RIVER ROAD, FUQUAY, NC 27526

GOODWIN RESIDENCE
CHELSEY LANE, HARNETT COUNTY N.C.

DESCRIPTION:
ELEVATIONS
DOOR SCHEDULE
WINDOW SCHEDULE
REVISION:

DATE: SEPTEMBER 2021

Pawing:



BUILDING DESIGN BY:

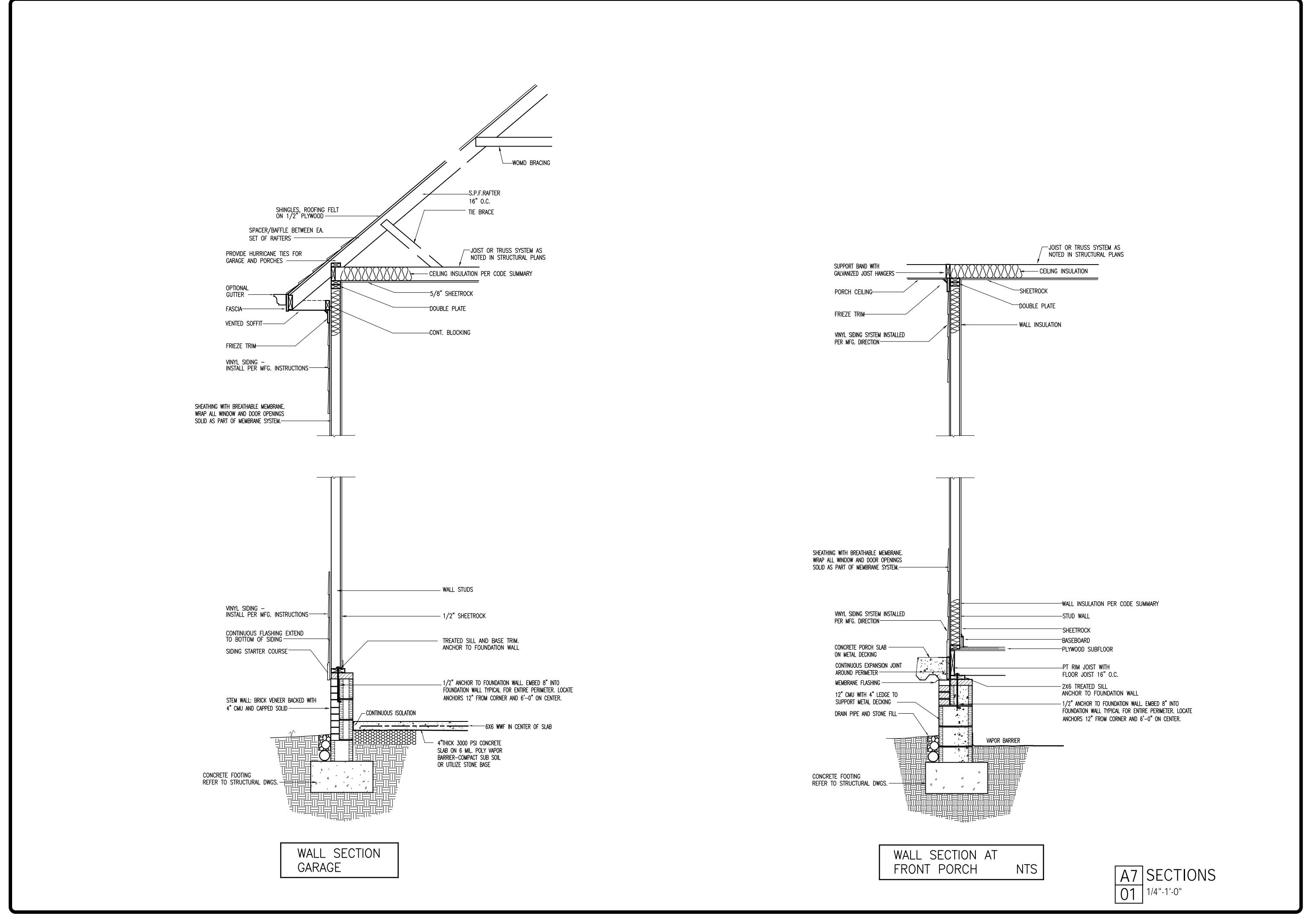
S&S CONTRACTING
RIVER ROAD, FUQUAY, NC 2

 \bigcirc PLANS FOR:
PLANS FOR: USE PLAI GOODWIN

DETAILS/SECTIONS

REVISION:

SEPTEMBER 2021



BUILDING DES S&S CONTR 6349 RIVER ROAD, FU

SIDEN COUNTY N.C.

CUSTOM HOUS

DESCRIPTION: SECTIONS

REVISION:

TE:

DATE: SEPTEMBER 2021

A7

67'-11"

76**'**–5"

30'-9"

6'-6"

8'-6"

30'-8"

GENERAL FOUNDATION NOTES:

- 1. THIS PLAN DESIGNED IN ACCORDANCE WITH NC RESIDENTIAL CODE, 2018 EDITION.
- 2. EXTERIOR WALL FOOTING TO BE 24" X 8" 3000 PSI STRUCTURAL CONCRETE UNLESS OTHERWISE NOTED. CONCRETE TO BE PREPARED AND PLACED IN ACCORDANCE WITH ACI 318. FOR FOUNDATION WALL HEIGHT, THICKNESS AND BACKFILL REQUIREMENTS, REFER TO STATE AND LOCAL BUILDING CODES. NOTE: ASSUMED SOIL BEARING CAPACITY=2000 PSF. CONTRACTOR MUST VERIFY SITE CONDITIONS AND CONTACT SOIL ENGINEER IF MARGINAL OR UNSTABLE SOILS ARE ENCOUNTERED.
- 3. FOOTINGS TO BEAR ON UNDISTURBED EARTH A MIN. OF 12" BELOW ADJACENT FINISH GRADE OR AS OTHERWISE DIRECTED BY LOCAL
- 4. FOUNDATION DRAINAGE SHALL BE IN ACCORDANCE WITH SECTION R405 OF THE CODE "FOUNDATION DRAINAGE".
- 5. THE FOUNDATION SHALL BE TREATED IN ACCORDANCE W/SECTION R406 OF THE CODE "FOUNDATION WATERPROOFING AND DAMPPROOFING".
- 6. THIS FOUNDATION DESIGN IS VALID FOR 100 MPH WIND ZONES ONLY. 7. FOUNDATION WALLS SHALL BE 12" IN WIDTH WHERE SUPPORTING
- FRAMING WITH BRICK VENEER.

STRUCTURAL EVALUATION BY:

HOWERTON SERVICES, PLLC LISCENSE # P-1716 CATHEDRAL BELL ROAD, RALEIGH, NC 27614

- * ENGINEER'S SEAL APPLIES ONLY TO STRUCTURAL COMPONENTS ON THIS DOCUMENT. SEAL DOES NOT INCLUDE CONSTRUCTION REVIEW, MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES OR SAFETY PRECAUTIONS.
- * ANY DEVIATIONS OR DISCREPANCIES ON PLANS ARE TO BE BROUGHT TO IMMEDIATE ATTENTION OF THE ENGINEER. FAILURE TO DO SO WILL VOID engineer's liability.
- * DO NOT SCALE THESE DRAWINGS ENGINEERING APPROVAL EXPIRES 09/30/2022 OR UNTIL NEW CODE CYCLE.



GOODWIN

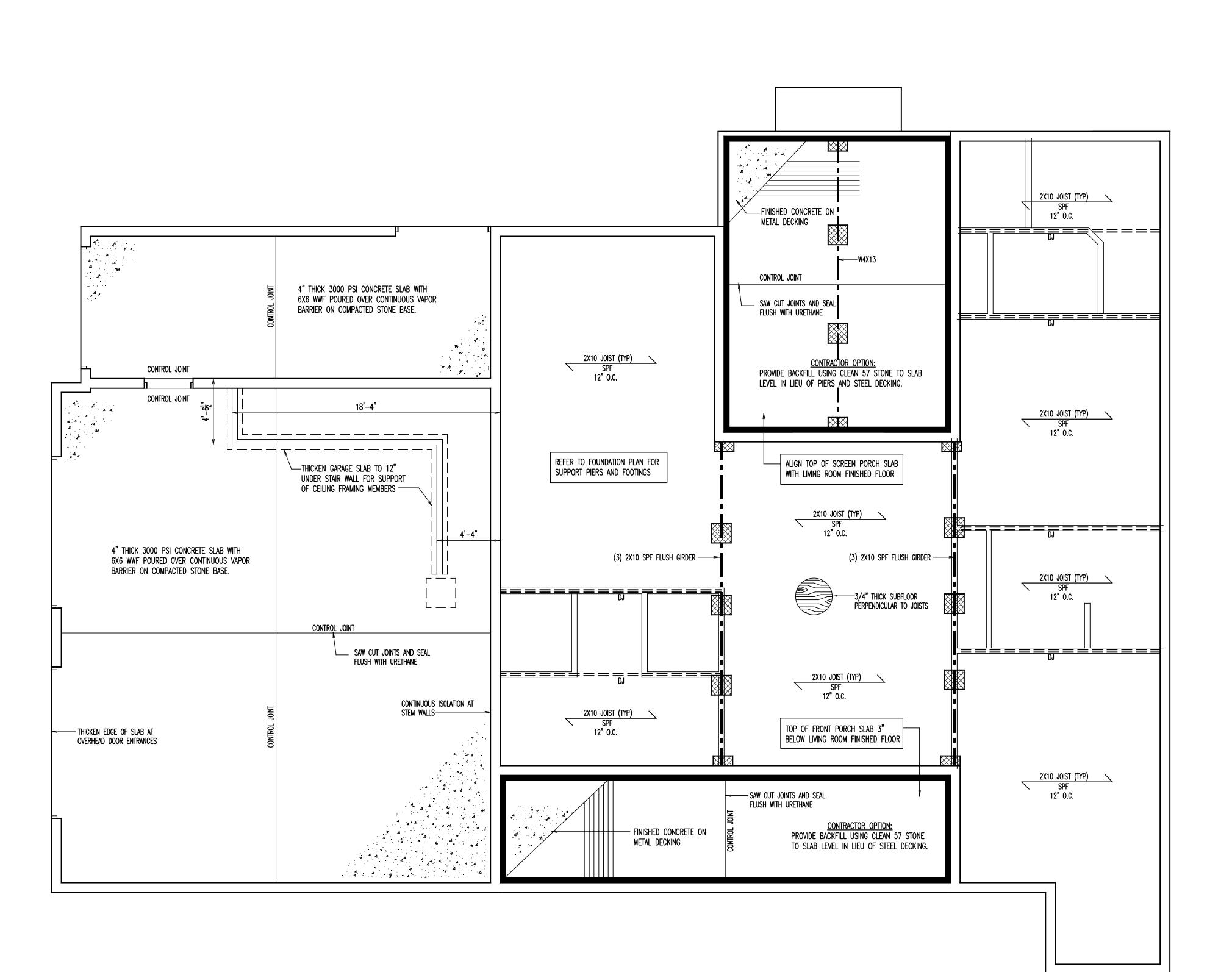
FOUNDATION PLAN

SEPTEMBER 2021

S1 FOUNDATION PLAN

REVISION:

SEPTEMBER 2021



GENERAL FRAMING NOTES:

- 1. THIS PLAN DESIGNED IN ACCORDANCE WITH NC RESIDENTIAL CODE, 2018
- GLAZING AREAS SHOWN ON THESE DESIGN DRAWINGS DO NOT EXCEED 15%P OF THE GROSS AREA OF THE EXTERIOR WALLS. THIS STRUCTURE MEETS THE
- 3. WALL CLADDING IS DESIGNED FOR A 24.1 #/SF OR GREATER
- 4. ALL WALLS, FLOORS AND CEILINGS SHALL BE INSULATED IN ACCORDANCE WITH
- CODE SUMMARY. 5. DESIGN CRITERIA: PRIMARY FLOOR SECONDARY FLOOR SLEEPING AREAS
 - ATTIC RO0F DEFLECTION LIMITS:
 - FL00R L/360(LIVE LOAD ONLY) RO0F
- 6. ALL HEADERS IN LOAD BEARING WALLS SHALL BE DOUBLE 2X10.
- 8. PROVIDE DOUBLE FLOOR JOISTS UNDER WALLS ABOVE.
- 9. PROVIDE FOUNDATION VENT WITHIN 36" OF EACH CORNER.
- 10. ALL JOISTS TO BE SPF.

STRUCTURAL EVALUATION BY:

HOWERTON SERVICES, PLLC LISCENSE # P-1716 CATHEDRAL BELL ROAD, RALEIGH, NC 27614

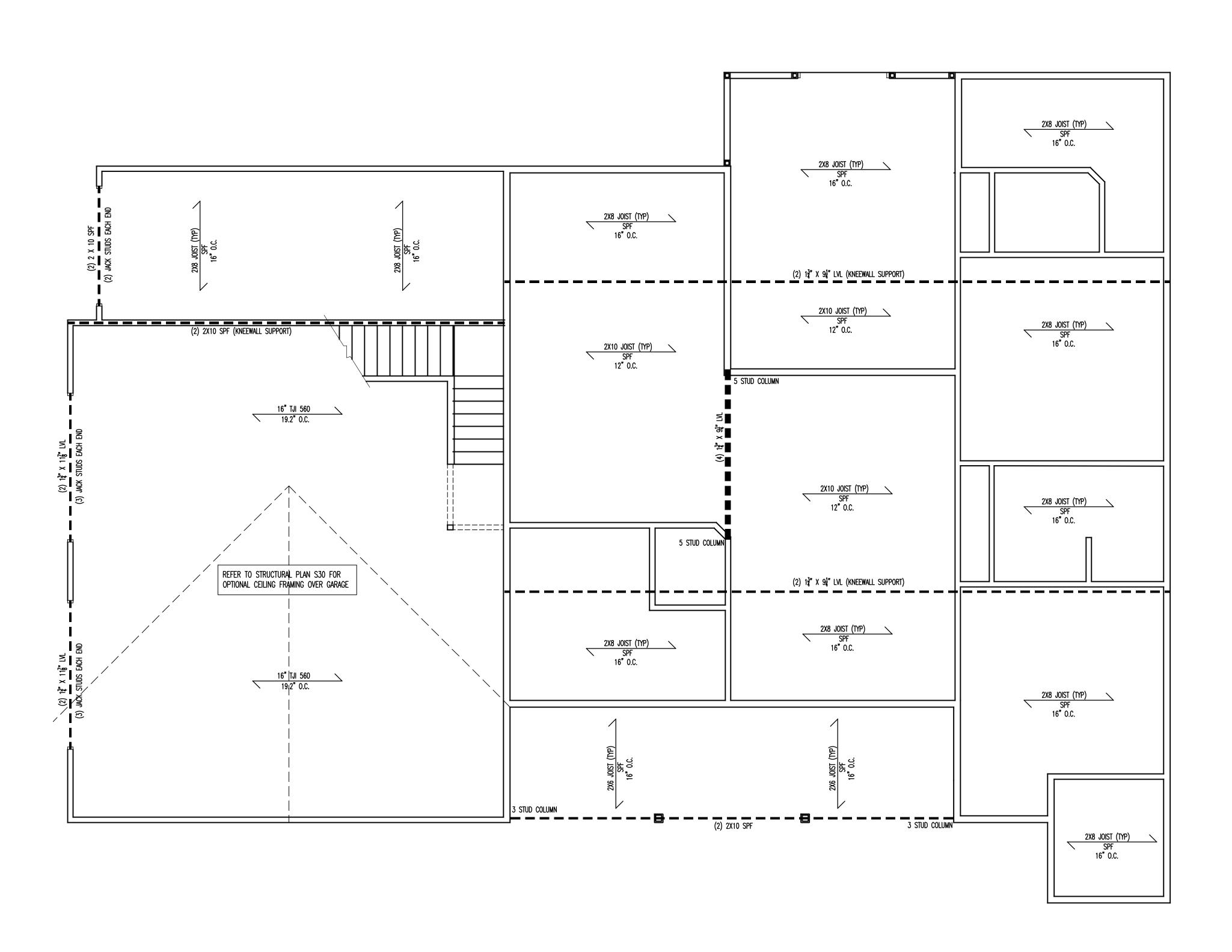
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FLOOR FRAMING PLAN

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DATE: SEPTEMBER 2021

S3



GENERAL FRAMING NOTES:

- 1. THIS PLAN DESIGNED IN ACCORDANCE WITH NC RESIDENTIAL CODE, 2018
- 2. GLAZING AREAS SHOWN ON THESE DESIGN DRAWINGS DO NOT EXCEED 15%P
 OF THE GROSS AREA OF THE EXTERIOR WALLS. THIS STRUCTURE MEETS THE
 REQUIREMENTS OF N1101.2.1, RESIDENTIAL BUILDING, TYPE A-1.
- 3. WALL CLADDING IS DESIGNED FOR A 24.1 #/SF OR GREATER
- POSITIVE/NEGATIVE PRESSURE.

 4. ALL WALLS, FLOORS AND CEILINGS SHALL BE INSULATED IN ACCORDANCE WITH
- CODE SUMMARY. DEAD 10 PSF LIVE 40 PSF 5. DESIGN CRITERIA: PRIMARY FLOOR SECONDARY FLOOR 10 PSF 40 PSF SLEEPING AREAS 10 PSF 30 PSF 10 PSF 20 PSF RO0F 10 PSF 20 PSF DEFLECTION LIMITS:
 - FLOOR L/360(LIVE LOAD ONLY)
 ROOF L/240
- 6. ALL HEADERS IN LOAD BÉARING WALLS SHALL BE DOUBLE 2X10.
 7. ALL WALLS ARE 2X4 @ 16" O.C. UNLESS OTHERWISE NOTED.
- 8. PROVIDE DOUBLE FLOOR JOISTS UNDER WALLS ABOVE.9. PROVIDE FOUNDATION VENT WITHIN 36" OF EACH CORNER.
- 10. ALL JOISTS TO BE SPF.

STRUCTURAL EVALUATION BY:

- HOWERTON SERVICES, PLLC LISCENSE # P-1716 CATHEDRAL BELL ROAD, RALEIGH, NC 27614
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S3 CEILING FRAMING PLAN
01 1/4"=1'-0"

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GENERAL FRAMING NOTES:

- 1. THIS PLAN DESIGNED IN ACCORDANCE WITH NC RESIDENTIAL CODE, 2018
- 2. GLAZING AREAS SHOWN ON THESE DESIGN DRAWINGS DO NOT EXCEED 15%P OF THE GROSS AREA OF THE EXTERIOR WALLS. THIS STRUCTURE MEETS THE REQUIREMENTS OF N1101.2.1, RESIDENTIAL BUILDING, TYPE A-1.
- 3. WALL CLADDING IS DESIGNED FOR A 24.1 #/SF OR GREATER
 - POSITIVE/NEGATIVE PRESSURE.
- 4. ALL WALLS, FLOORS AND CEILINGS SHALL BE INSULATED IN ACCORDANCE WITH CODE SUMMARY.
- 5. DESIGN CRITERIA: 10 PSF 40 PSF PRIMARY FLOOR SECONDARY FLOOR 10 PSF 40 PSF SLEEPING AREAS 10 PSF 30 PSF
 - 10 PSF ATTIC 20 PSF RO0F 10 PSF 20 PSF DEFLECTION LIMITS: FL00R L/360(LIVE LOAD ONLY)
- ROOF 6. ALL HEADERS IN LOAD BÉARING WALLS SHALL BE DOUBLE 2X10.
- 7. ALL WALLS ARE 2X4 @ 16" O.C. UNLESS OTHERWISE NOTED. 8. PROVIDE DOUBLE FLOOR JOISTS UNDER WALLS ABOVE.
- 9. PROVIDE FOUNDATION VENT WITHIN 36" OF EACH CORNER.
- 10. ALL JOISTS TO BE SPF.

STRUCTURAL EVALUATION BY:

HOWERTON SERVICES, PLLC LISCENSE # P-1716 CATHEDRAL BELL ROAD, RALEIGH, NC 27614

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GOODWIN I

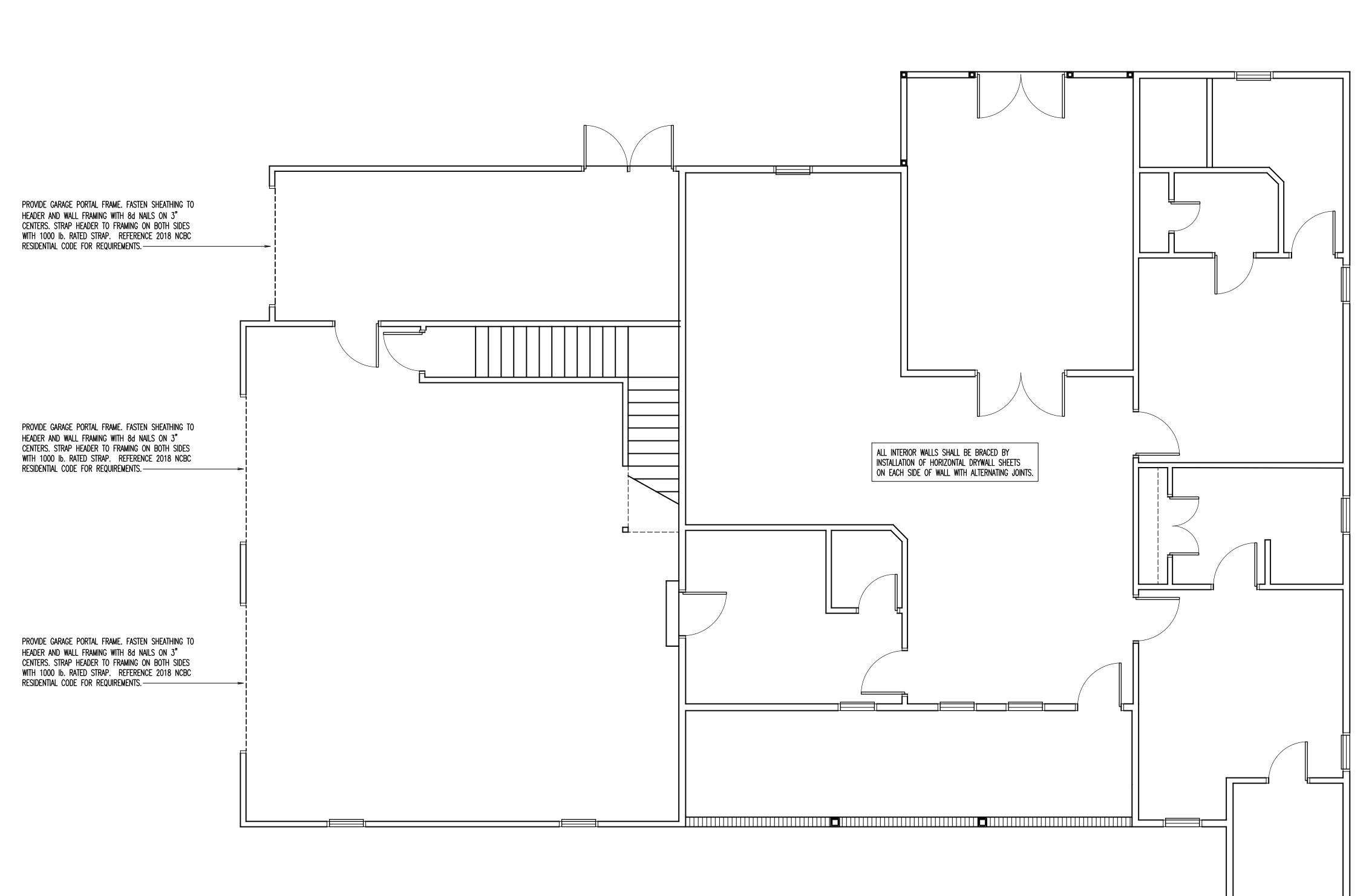
SEPTEMBER 2021

S30 OPTIONAL
01 CEILING FRAMING PLAN 1/4"=1'-0"

GOODWIN

SEPTEMBER 2021

S4 BRACING PLAN
01 1/4"=1'-0"



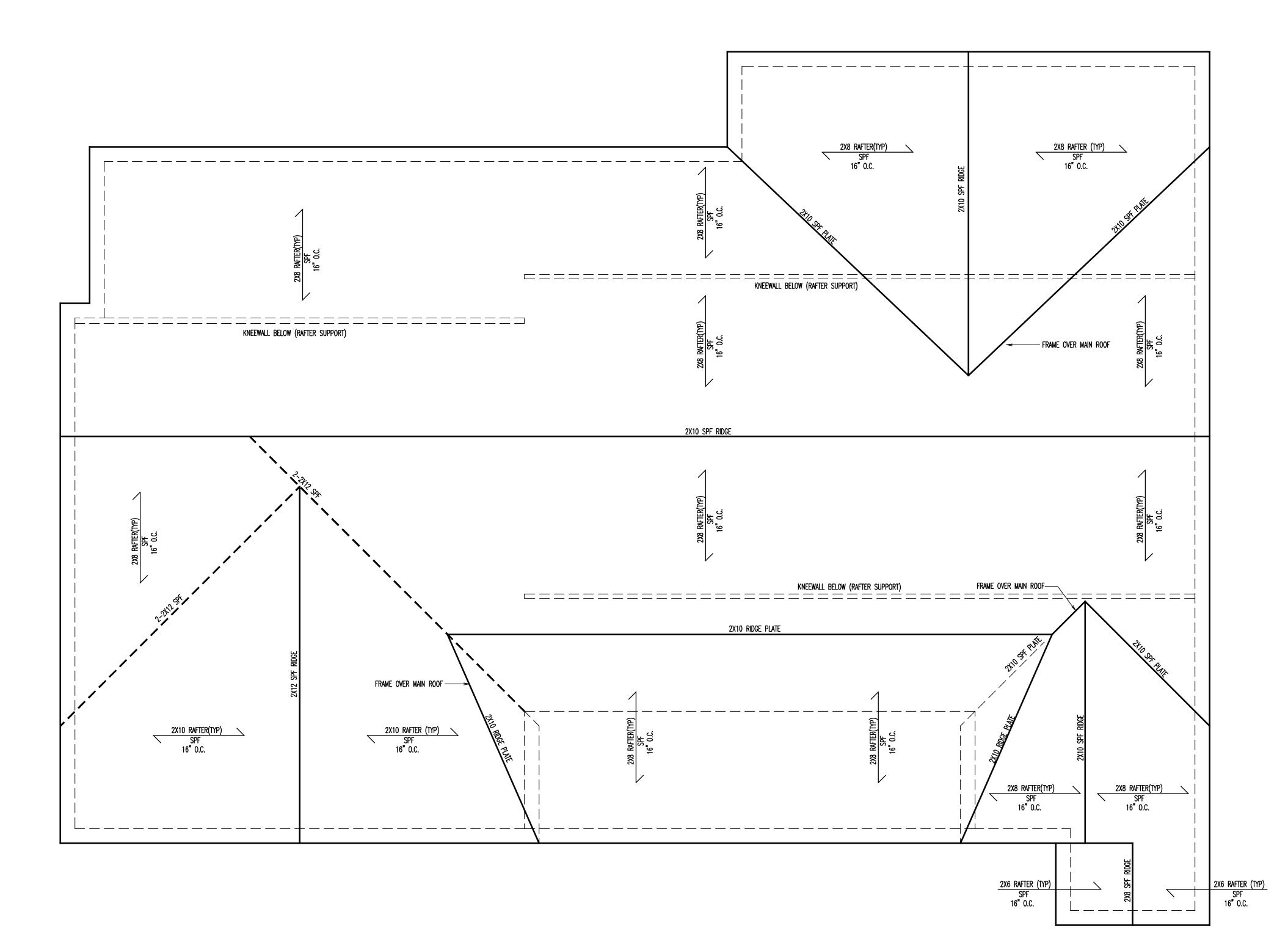
BRACED WALL NOTES:

- 1. BRACED WALLS ARE REQUIRED PER SECTION R602.10.1 2018 NCBC RESIDENTIAL CODE.
- 2. THE EXTERIOR WALL STRUCTURE SHALL BE CONTINUOUSLY SHEATHED, FULL HEIGHT WITH MIN. THICKNESS 7/16" OSB. THESE WALLS SHALL BE CONSTRUCTED IN CONFORMANCE TO TYPE CS-WSP DETAILS. REFER TO PLAN FOR LOCATION OF REQUIRED BRACING LABLED "CS BRACING" AND LENGTH OF WALL BRACING LABELED IN LINEAR FEET.
- 3. INTERIOR WALLS WHERE NOTED SHALL BE BRACED PER INDICATED METHOD IN REFERENCE TO NCBC-RESIDENTIAL CODE, TABLE R602.10.2
- 4. SPECIAL BRACING DETAILS ARE ILLUSTRATED IN THE CODE AND ALLOWED WHERE WALLS DO NOT MEET THE MINIMUM REQUIREMENTS FOR SUPPORT.

STRUCTURAL EVALUATION BY:

HOWERTON SERVICES, PLLC CATHEDRAL BELL ROAD, RALEIGH, NC 27614

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GENERAL ROOF NOTES:

- 1. THIS PLAN DESIGNED IN ACCORDANCE WITH NC RESIDENTIAL CODE, 2018 EDITION. 2. ROOF CLADDING DESIGN VALUES (POSITIVE/NEGATIVE) SHALL BE AS FOLLOWS: 45.5 #/SF FOR ROOF PITCHES FROM 0/12 TO 2.25/12 34.5 #/SF FOR ROOF PITCHES FROM 2.25/12 TO 7/12
- 21 #/SF FOR ROOF PITCHES FROM 7/12 TO 12/12 3. ALL RÖÖFING ELEMENTS SHALL MEET THE REQUIREMENTS OF CHAPTER 8 OF THE
- 4. ALL LUMBER SHALL BE #2 SPF OR BETTER. RAFTERS MAY BE FINGER JOINTED PER NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION, AND MUST HAVE THE STRUCTURAL CERTIFICATION STAMPED ON THE MEMBER.
- 5. RAFTER SIZES, SPANS AND SPACING SHALL NOT EXCEED THE FOLLOWING: 2X6 2X8 2X10
- SPACING 12" O.C. 14'-9" 19'-6" 13'-5" 17'-9" 22'-3" SPACING 16" O.C.
- 6. ALL RAFTERS TO BE 2X8 @ 16" O.C. #2 SPF UNLESS NOTED OTHERWISE. 7. 2-2X10 HIPS MAY BE SPLICED WITH A MIN. 6'-0" OVERLAP. 8. PROVIDE DOUBLE RAFTER EACH SIDE OF DORMERS WITH DOUBLE HEADER.
- 9. ATTACH VAULTED RAFTERS WITH HURRICANE CLIP SIMPSON "H-5" OR EQUIVALENT. PROVIDE DOUBLE OPPOSING RAFTERS WHERE NOTED.
- 10. 2X8 RAFTERS @ CATHEDRAL OR VAULTED CEILINGS TO BE FURRED DOWN 2" OR
- USE 2X10 RAFTERS FOR INSULATION PER CODE.
- 11. PROVIDE 2X4 COLLAR TIES EVERY SECOND RAFTER (TYPICAL)
- 12. PROVIDE 2X4 RAFTER TIES @ 32" O.C. (TYPICAL) 13. FRAME RAFTERS ON 2X4 PLATE ON TOP OF CEILING JOISTS UNLESS NOTED
- 14. SHINGLES ASSUMED TO BE 240 LB. FIBERGLASS, OR EQUAL. MINIMUM ROOF PITCH
- TO BE AS INDICATED ON ARCHITECTURAL PLAN SHEETS. 15. PROVIDE DOUBLE LAYER OF ROOF FELT WHERE ROOF PITCH IS LESS THAN 4 /12. 16. THESE DESIGN DRAWINGS WERE PRODUCED BY HOWERTON CONSULTING ENGINEERING,
- INC ASSUMES NO LIABILITY FOR THE CORRECTNESS OF ARCHITECTURAL FEATURES, DIMENSIONS OR FIXTURES. 17. ALL HIP RIDGES AND VALLEYS SHALL BE DOUBLE 2X10 UNLESS NOTED OTHERWISE. 18. CONTRACTOR IS RESPONSIBLE FOR REVIEWING DRAWINGS FOR CONSTRUCTABILITY
- PRIOR TO BEGINNING CONSTRUCTION. 19. VALLEY RAFTERS WITH SPANS LONGER THAN 15' SHALL BE LVLs SUPPORTED AS NOTED. PROVIDE TEMPORARY STIFF KNEE SUPPORT UNTIL ALL SHEATHING AND RAFTER TIES/COLLARS ARE INSTALLED.
- 20. DO NOT SCALÉ THESE DRAWINGS. IF DESCREPANCIES ARE NOTED, CONTACT THE
- 21. DESIGN BASIS PROVIDED BY S&S CONTRACTING INC., FUQUAY VARINA, NC AND THEY ARE RESPONSIBLE FOR ALL ARCHITECTURAL FEATURES, DIMENSIONS, COMPLIANCE WITH ALL ACCESS/EGRESS REQUIREMENTS, FIRE CODE AND LIFE SAFETY DESIGN

STRUCTURAL EVALUATION BY:

HOWERTON SERVICES, PLLC LISCENSE # P-1716 CATHEDRAL BELL ROAD, RALEIGH, NC 27614

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S5 ROOF PLAN
1/4"=1'-0"

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