

JACKSON

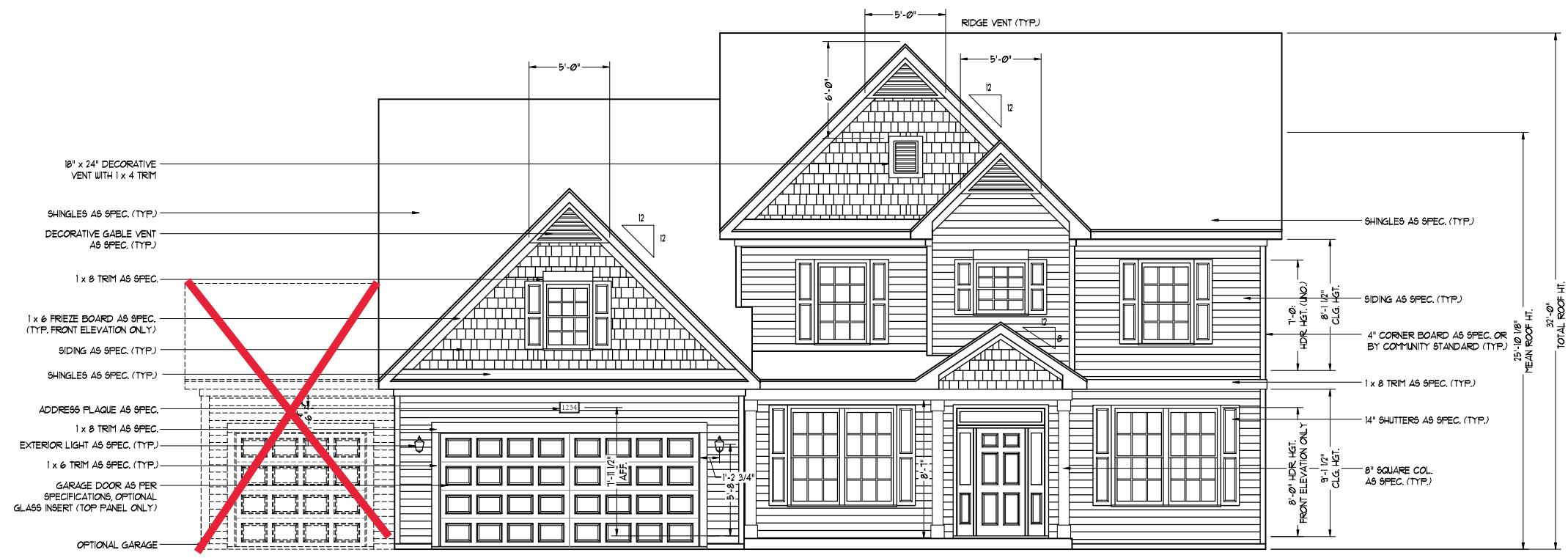
LOT 319 OAKMONT
INVENTORY MARKED

JACKSON REVISION LIST - STRUCTURAL:

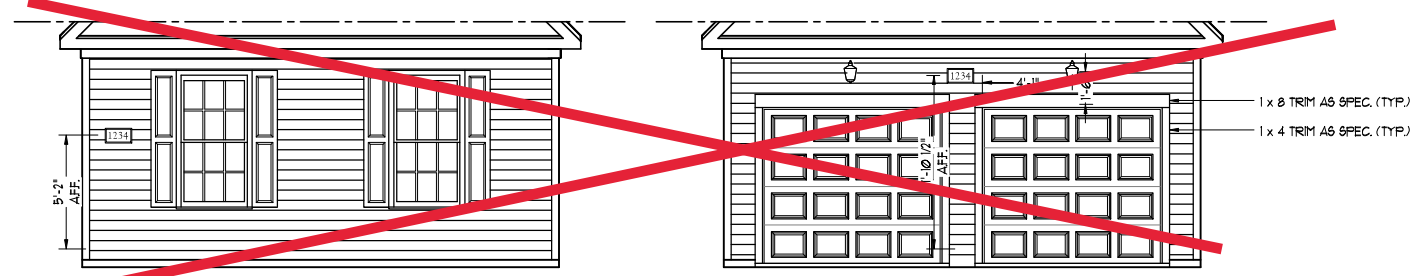
1. ADDED FRAMING AND FOUNDATION FOR 3 CAR GARAGE AND 1-CAR WITH SIDE LOAD
2. EXTENDED NOOK BEAM, ADDED FRAMING FOR SECOND FLOOR OPTIONS (ADDED EXTRA JOISTS AND SHIFTED BEAMS AT FOYER WHERE REQUIRED)
3. ADDED FRAMING AND FOUNDATION FOR SMALLER MASTER SUITE
4. ADDED I-JOIST SERIES/SPACING
5. RECONFIGURED CRAWL TO HAVE ALL JOISTS RUNNING FRONT TO BACK
6. REMOVED PARTIAL CRAWL FRAMING FROM BASEMENT AND EXTENDED BASEMENT FRAMING BELOW KITCHEN
7. CHANGED TO 2 x 6 HEADERS WHERE APPLICABLE (5-18)
8. FLOORED OPTION FOR BONUS ROOM AND REVISED HEADER FOR FLOOR LOADS (5-18)
9. ADDED HEADERS FOR FIREPLACE OPTIONS (5-18)
10. REMOVED BEAM FOR OLD MEDIA ROOM LOCATION (5-18)
11. 2 x 6 GARAGE WING WALLS (5-18)
12. MODIFIED STRAPPING NOTE FOR DOUBLE GARAGE DOOR (5-18)
13. UPDATED STRUCTURAL NOTES (5-18)
14. REMOVED ROOF TRUSS BEARING AT REVISED SECOND FLOOR BATH LOCATION (5-18)
15. CHANGED FRONT PORCH POSTS TO 6x6 FOR (3) PLY BEAM (2-19)
16. ADDED MEDIA OPTION BACK - MOVED LVL ON SECOND FLOOR FRAMING, EXTRA JOIST, ATTIC FRAMING PLAN (2-19)
17. CODE UPDATE TO 2018 NC IRC (2-19)
18. CODE UPDATE TO 2018 SC IRC (1-16)
19. CODE UPDATE TO 2021 SC IRC (12-01-22)
20. WINDOW LOCATION AND SIZE CHANGE IN OPTIONAL OWNER'S BATH 3 (12-01-22)

JACKSON REVISION LIST - ARCHITECTURAL:

1. REMOVED LOGO FROM TITLE BLOCK ON ALL SHEETS (05-01-20)
2. REMOVED SHINGLE HATCH FROM ALL ELEVATIONS (05-01-20)
3. CHANGED CORNER BOARDS ON ELEVATIONS TO 4" INSTEAD OF 6" (05-01-20)
4. CHANGED NOTE FOR GARAGE DOOR ON ALL ELEVATIONS (05-01-20)
5. REMOVED GRIDS FROM ALL SIDE AND REAR ELEVATIONS (05-01-20)
6. REMOVED GRIDS FROM ALL TRANSOMS AND SIDE LIGHTS AT ALL FRONT DOORS (05-01-20)
7. UPDATED HATCH TO REPRESENT STONE ON ALL ELEVATIONS WITH STONE (05-01-20)
8. ADDED ELEVATIONS TO SHOW BOTH STONE AND BRICK OPTIONS ON ELEVATIONS (05-01-20)
9. DIMENSIONED WATER TABLE ON ALL ELEVATIONS WHERE APPLICABLE (05-01-20)
10. DELETED DUPLICATE DIMENSIONS ON ELEVATIONS (05-01-20)
11. HATCHED ROW/LOCK AROUND WINDOWS WHERE NEEDED (05-01-20)
12. ADDED COLUMN DETAIL ON B ELEVATIONS (05-01-20)
13. REMOVED HARDWARE FROM SHUTTERS ON ALL C ELEVATIONS (05-01-20)
14. VERIFIED COACH LIGHT LOCATIONS ON ELEVATIONS ALONG WITH ELECTRICAL SHEETS (05-01-20)
15. UPDATED SLAB INTERFACE SHEET (05-01-20)
16. ADDED DIAGONAL DIMENSIONS TO SLAB INTERFACE (05-01-20)
17. ADDED CONDUIT FROM ISLAND TO BEHIND OPTIONAL REFRIGERATOR (05-01-20)
18. RELOCATED OPTIONS TO SEPARATE SHEET (A-4.4) (05-01-20)
19. ADDED PARTIAL PLANS TO SHOW SEPARATE FRONT ELEVATION LAYOUTS TO APPLICABLE LAYOUT (05-01-20)
20. VERIFIED ALL ROOM SIZES (05-01-20)
21. CHANGED ALL WALLS FROM 2x6 TO 2x4 EXCEPT WHERE SHADED (05-01-20)
22. VERIFIED AND UPDATED SQUARE FOOTAGE/ADDED SQUARE FOOTAGE BLOCK FOR FULL BRICK VENEER (05-01-20)
23. ADDED OPTIONAL GAS LINE (05-01-20)
24. REMOVED ACCESS AND NOTE FOR "OPT WHIRLPOOL TUB" IN OWNER'S BATH AND FLIPPED TUB (05-01-20)
25. CHANGED STANDARD OWNER'S BATH TO OWNER'S BATH 1 LAYOUT/ADDED OWNER'S BATH 2 & BATH 3 (05-01-20)
26. CHANGED STANDARD COVERED PORCH LAYOUT TO REPRESENT ELEVATION "A" (05-01-20)
27. NOTED ALL PLUMBING DROPS (05-01-20)
28. VERIFIED VENTILATION AND LIGHT REQUIREMENTS AT OWNER'S BEDROOM MEETS CODE. (05-01-20)
29. TRAY CEILING IN OWNER'S BEDROOM SQUARED OFF AND CHANGED TO DROPPED 6" (05-01-20)
30. ADDED HOSE BIB LOCATIONS TO OPPOSITE SIDES OF PLAN (05-01-20)
31. CHANGED NAME "BONUS ROOM" ON SECOND FLOOR TO "RECREATION ROOM" (05-01-20)
32. REMOVED NUMBERS FROM ALL STAIRS (05-01-20)
33. REMOVED NUMBER SIGNS FROM ROOM TITLES (05-01-20)
34. ADDED NOTE FOR DOOR LEADING TO STORAGE IN SECOND FLOOR (05-01-20)
35. ADDED NOTE FOR "PDS ATTIC ACCES" ON SECOND FLOOR (05-01-20)
36. REMOVED FIREPLACE OPTION FROM SECOND FLOOR (05-01-20)
37. TRAY CEILING IN SECOND OWNER'S BEDROOM SQUARED OFF AND CHANGED TO RAISED 10" (05-01-20)
38. ADDED 3x3 CONCRETE PAD TO ALL DOORS NOT LEADING OUT TO PORCH/PATIO (05-01-20)
39. UPDATED ELECTRICAL KEY ON ALL ELECTRICAL PLANS (05-01-20)
40. CHANGED ALL CEILING FANS TO OPTIONAL ADDED NOTE "STD LIGHT, OPT. FAN/LT PREWIRE" (05-01-20)
41. REMOVED ALL WALL OUTLETS, TV OUTLETS, AND PHONE OUTLETS (05-01-20)
42. CHANGED PENDANT LIGHTS TO OPTIONAL (05-01-20)
43. ADDED STANDARD 2 BULB FLUORESCENT LIGHT TO KITCHEN (05-01-20)
44. VERIFIED SMOKE DETECTORS AND ADDED CO2 DETECTORS (05-01-20)
45. ADDED AND VERIFIED ROOF VENT CALCULATIONS (05-01-20)
46. REMOVED CEILING LIGHT FROM SECONDARY BATHROOM OVER TUB/SHOWER COMBO (05-01-20)
47. REMOVED SECOND DOOR AND 2 WINDOWS FROM OPTIONAL BASEMENT (05-01-20)
48. CHANGED SERVICE DOOR TO SWING OUT (05-01-20)
49. UPDATED DOOR TO BATH 4 W/ OPTIONAL MEDIA ROOM TO 2/4 FROM 2/0
- CHANGES DECEMBER 01, 2022
50. CHANGED WINDOW IN OPTIONAL OWNER'S BATH 3 FROM 2/0 4/0 TO 4/0 1/0 TRANSOM

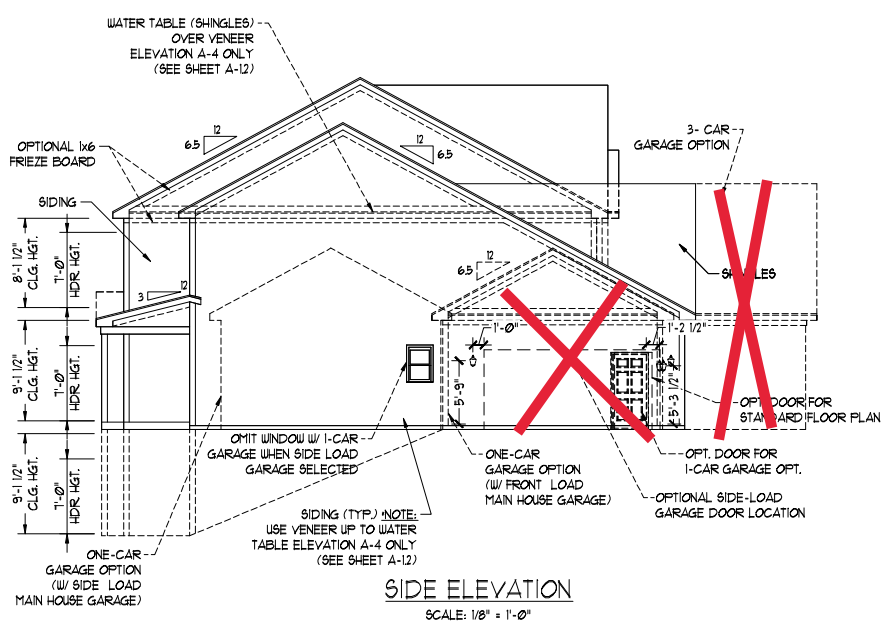


FRONT ELEVATION-A
SCALE: 1/4" = 1'-0"

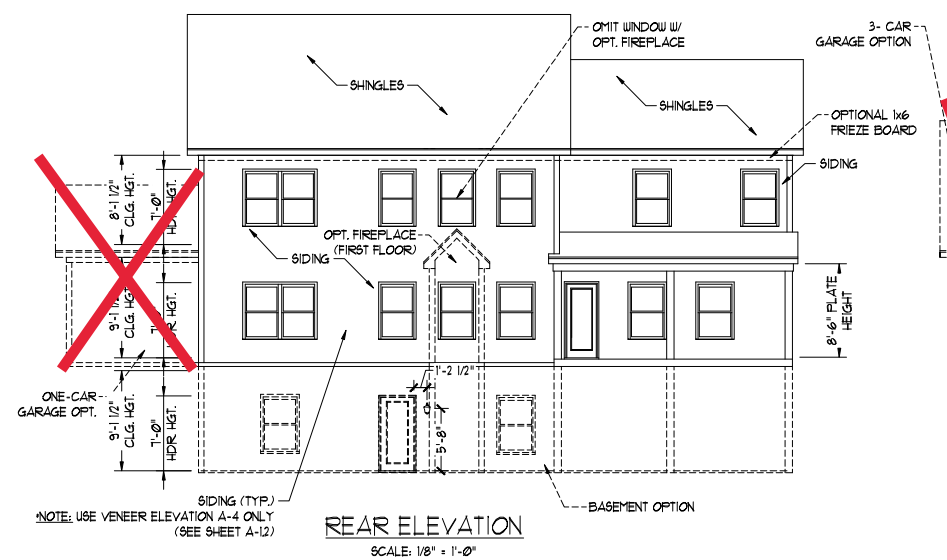


SIDE LOAD GARAGE OPTION
SCALE: 1/4" = 1'-0"

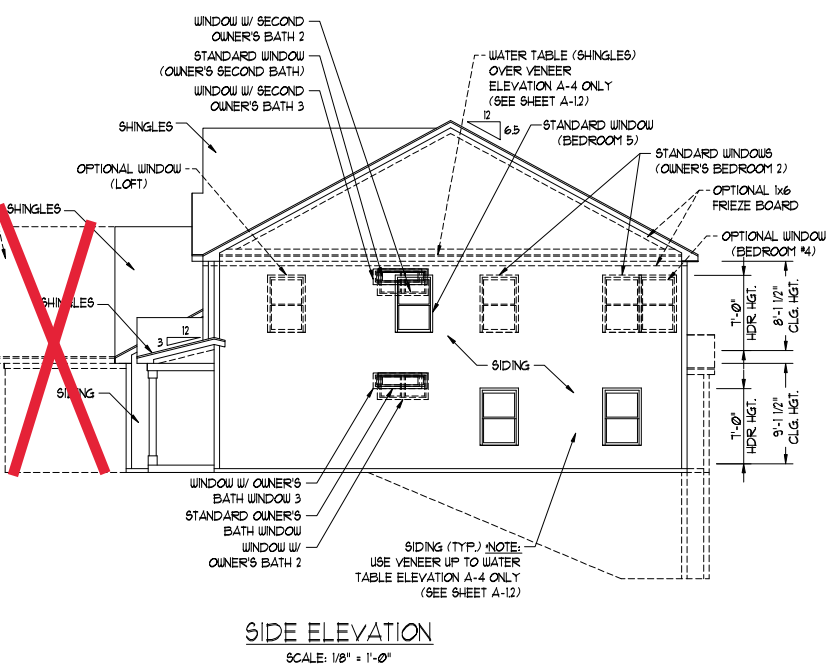
DOUBLE GARAGE DOOR OPTION
SCALE: 1/4" = 1'-0"



SIDE ELEVATION
SCALE: 1/8" = 1'-0"



REAR ELEVATION
SCALE: 1/8" = 1'-0"

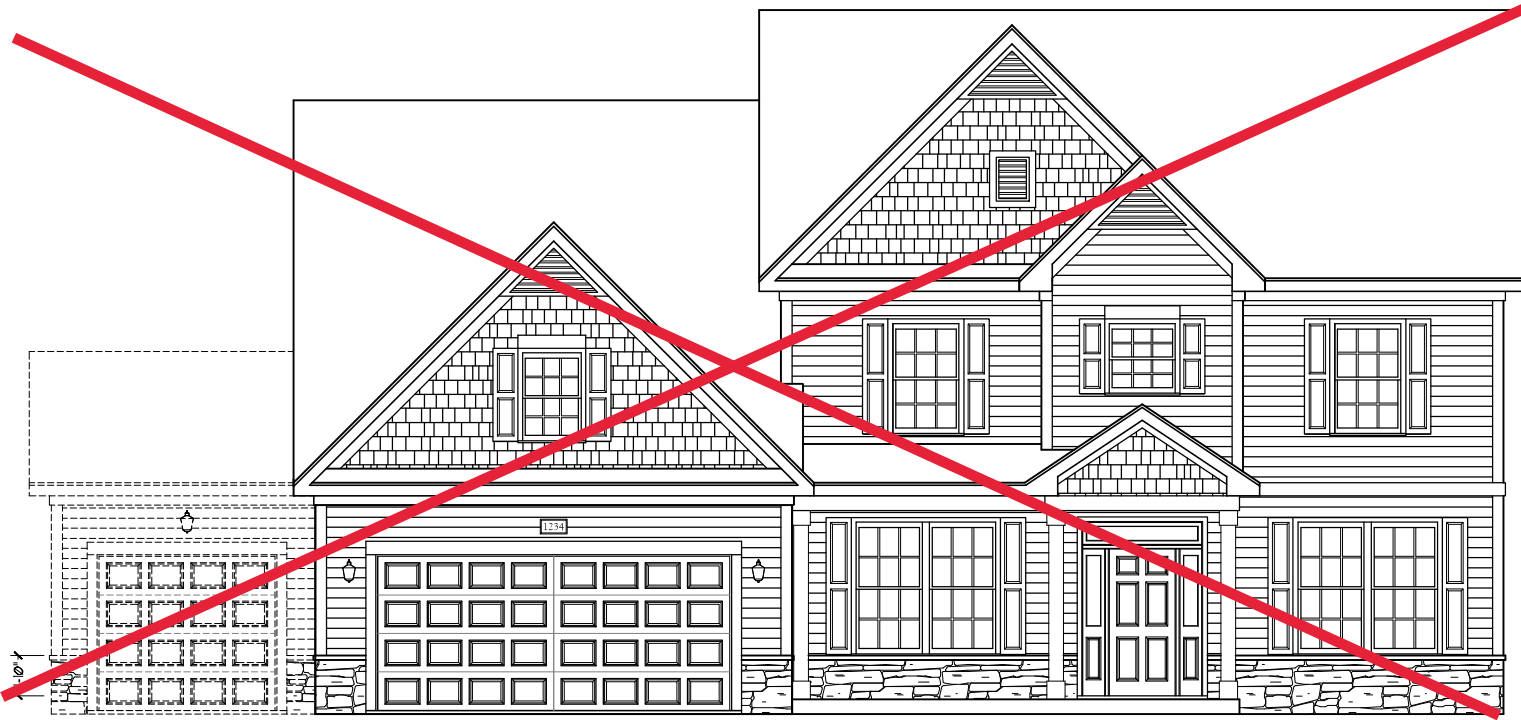


SIDE ELEVATION
SCALE: 1/8" = 1'-0"

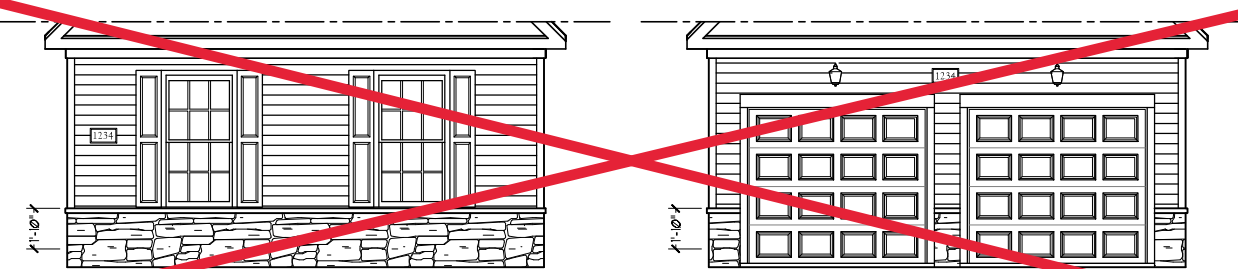


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JACKSON
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ENGINEERED BY:
REVIEWED BY:



FRONT ELEVATION-A-2
SCALE: 1/4" = 1'-0"

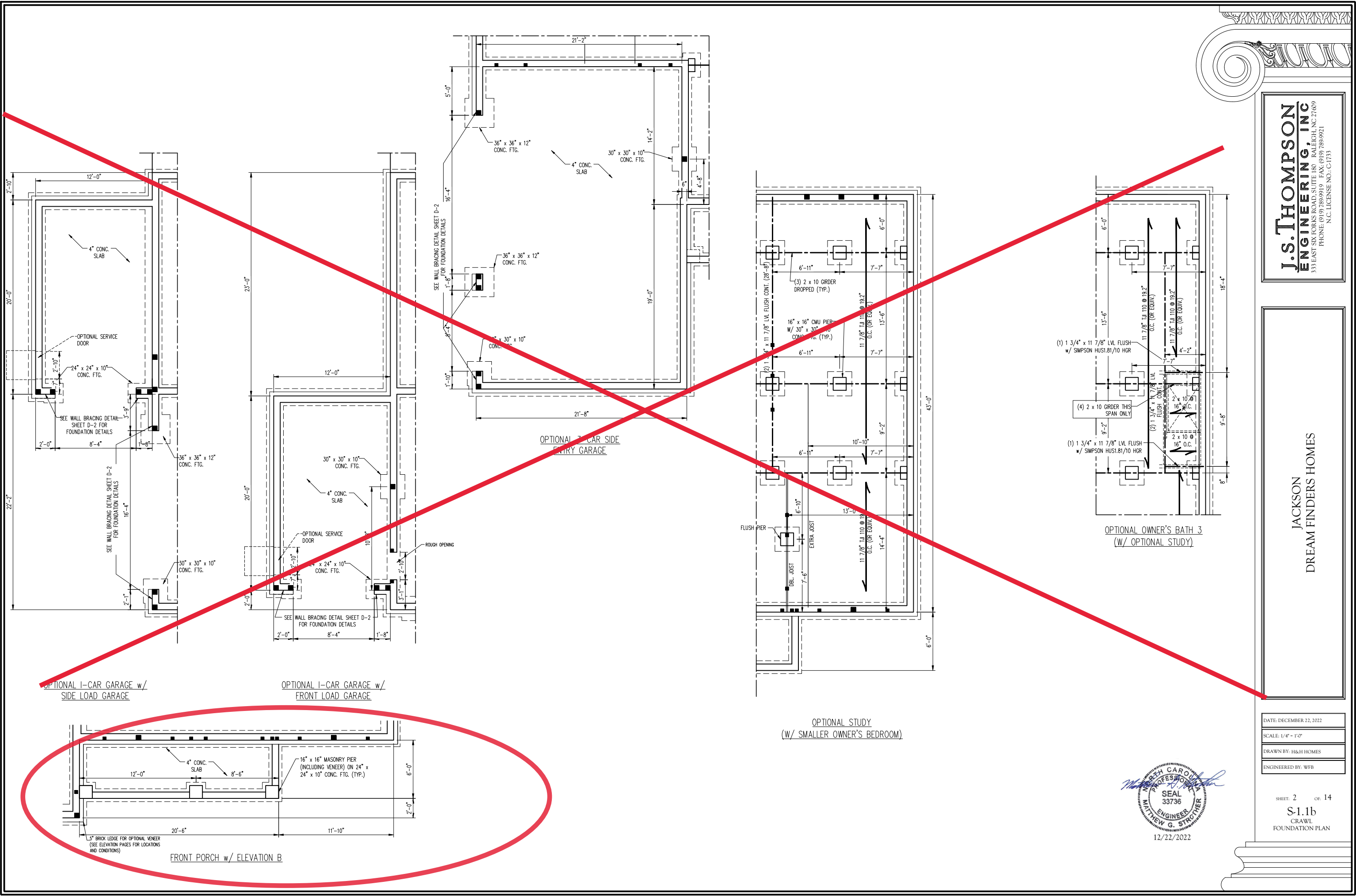


SIDE LOAD GARAGE OPTION
SCALE: 1/4" = 1'-0"

DOUBLE GARAGE DOOR OPTION
SCALE: 1/4" = 1'-0"



FRONT ELEVATION-A-3
SCALE: 1/4" = 1'-0"
BRICK OR STONE
LEDGE AS SPEC. (TYP.)



J.S. THOMPSON ENGINEERING, INC
333 EAST SIX FORKS ROAD, SUITE 180 RALEIGH, NC 27609
PHONE: (919) 789-9919 FAX: (919) 789-9921
N.C. LICENSE NO.: C-1733

JACKSON
DREAM FINDERS HOMES

DATE: DECEMBER 22, 2022
SCALE: 1/4" = 1'-0"
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ENGINEERED BY: WFB



SHEET 2 OF 14
S-1.1b
CRAWL
FOUNDATION PLAN

OPTIONAL 1-CAR GARAGE w/
SIDE LOAD GARAGE

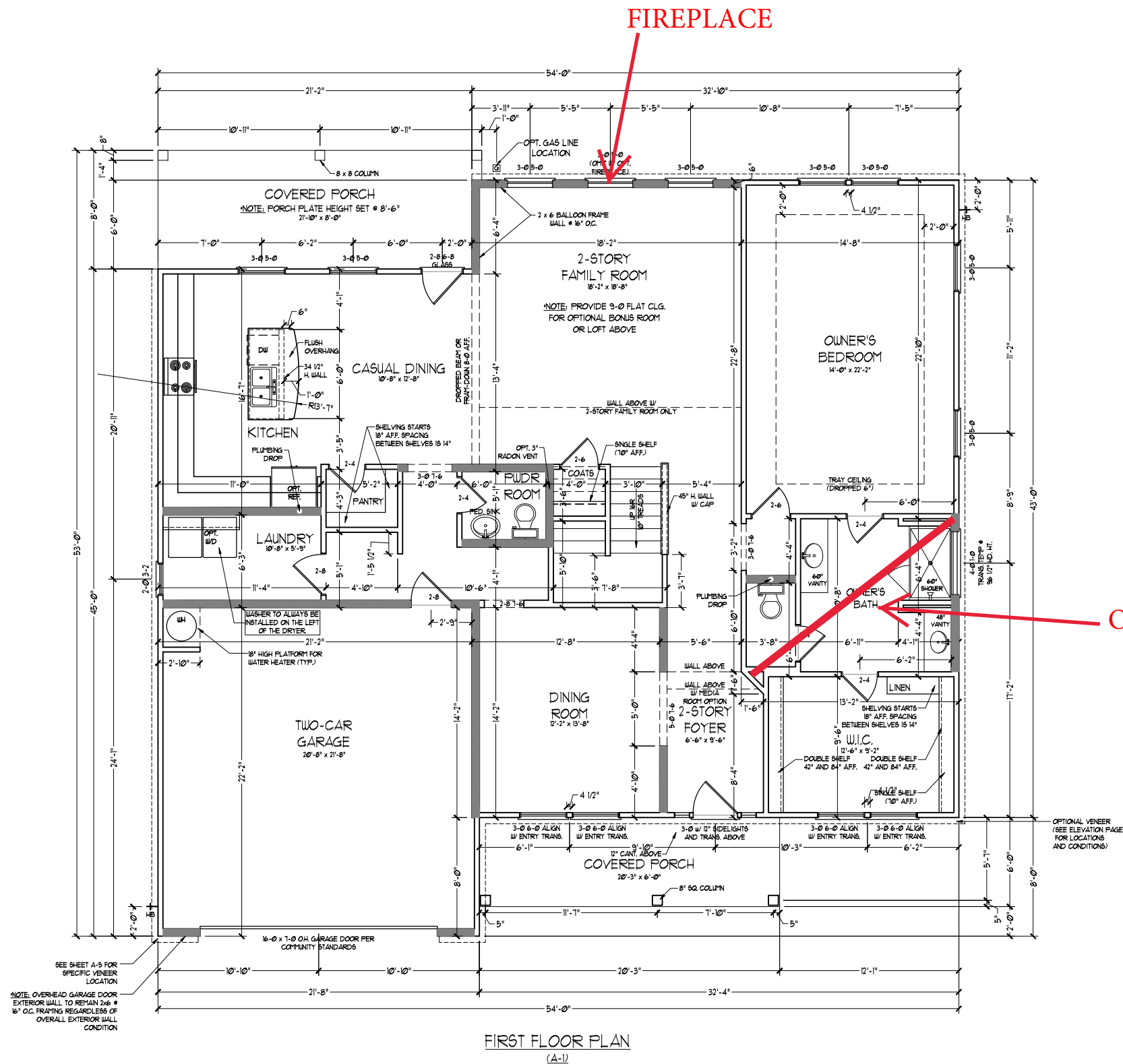
OPTIONAL 1-CAR GARAGE w/
FRONT LOAD GARAGE

OPTIONAL 2-CAR SIDE
ENTRY GARAGE

OPTIONAL STUDY
(w/ SMALLER OWNER'S BEDROOM)

OPTIONAL OWNER'S BATH 3
(w/ OPTIONAL STUDY)

FRONT PORCH w/ ELEVATION B



FIRST FLOOR PLAN
(A-1)

SEE PARTIAL FLOOR PLANS ON SHEET A-51, A-52, 1 A-53 FOR CHANGES TO THE EXTERIOR VENEER FOR ALL ELEVATIONS.

SQUARE FOOTAGE	
1st FLOOR:	1895 SQ. FT.
2nd FLOOR:	1588 SQ. FT.
TOTAL:	3483 SQ. FT.
GARAGE:	473 SQ. FT.
FRONT PORCH:	31 SQ. FT.
COVERED REAR PORCH:	110 SQ. FT.
OPT. BASEMENT:	1871 SQ. FT.
1st FLOOR OPTIONS	
OPT. FIREPLACE:	10 SQ. FT.
2nd FLOOR OPTIONS	
OPT. LOFT:	273 SQ. FT.
OPT. RECREATION ROOM:	273 SQ. FT.
UNHEATED OPTIONS	
OPT. 1-CAR GARAGE:	240 SQ. FT.
OPT. 3-CAR GARAGE:	711 SQ. FT.
OPT. 12'-0" X 10'-10" PATIO:	100 SQ. FT.

SQUARE FOOTAGE (W/ FULL BRICK)	
1st FLOOR:	1549 SQ. FT.
2nd FLOOR:	1640 SQ. FT.
TOTAL:	3189 SQ. FT.
GARAGE:	495 SQ. FT.
FRONT PORCH:	71 SQ. FT.
COVERED REAR PORCH:	170 SQ. FT.
OPT. BASEMENT:	1831 SQ. FT.
1st FLOOR OPTIONS	
OPT. FIREPLACE:	14 SQ. FT.
2nd FLOOR OPTIONS	
OPT. LOFT:	281 SQ. FT.
OPT. RECREATION ROOM:	281 SQ. FT.
UNHEATED OPTIONS	
OPT. 1-CAR GARAGE:	259 SQ. FT.
OPT. 3-CAR GARAGE:	742 SQ. FT.
OPT. 12'-0" X 10'-10" PATIO:	100 SQ. FT.

NOTE: ALL EXTERIOR WALLS AND ATTIC WALLS ARE TO BE 2 x 4 @ 16" O.C. (UNO). ALL INTERIOR LOAD BEARING WALLS ARE TO BE 2 x 4 @ 16" O.C. (UNO) AND NON-LOAD BEARING INTERIOR WALLS ARE TO BE 2 x 4 @ 24" O.C. (UNO).

2x6 WALL

* SHADED WALLS ARE TO BE 2 x 6 @ 16" O.C. (LOAD BEARING) OR 2 x 6 @ 24" O.C. (NON-LOAD BEARING) REGARDLESS OF EXTERIOR WALL CONDITION

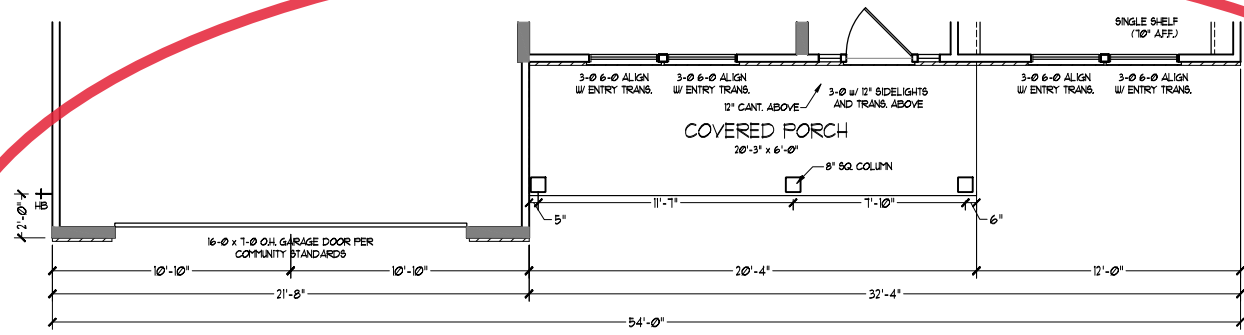


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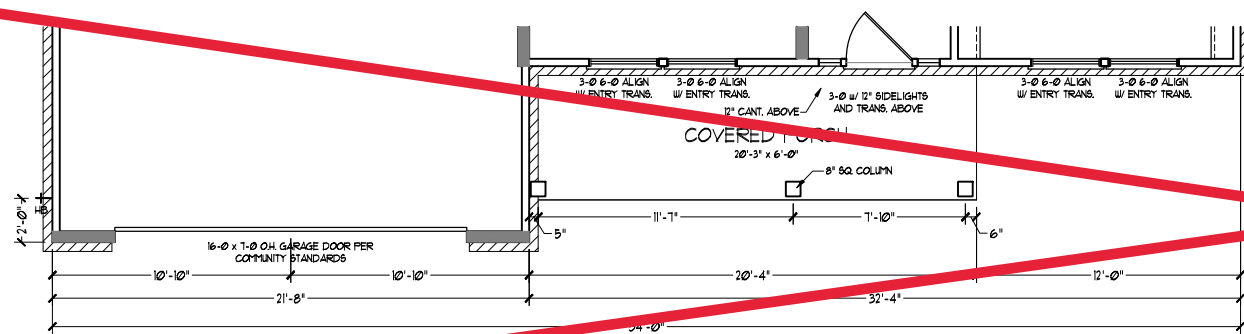
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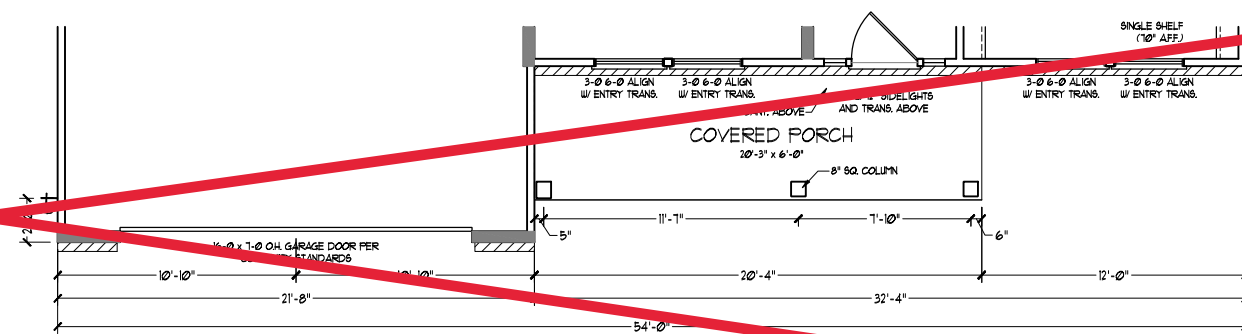
FIRST FLOOR PLAN
A-6



FLOOR PLAN A-2
A-3 W/ STONE



FLOOR PLAN A-4



FLOOR PLAN A-2
A-3 W/ BRICK



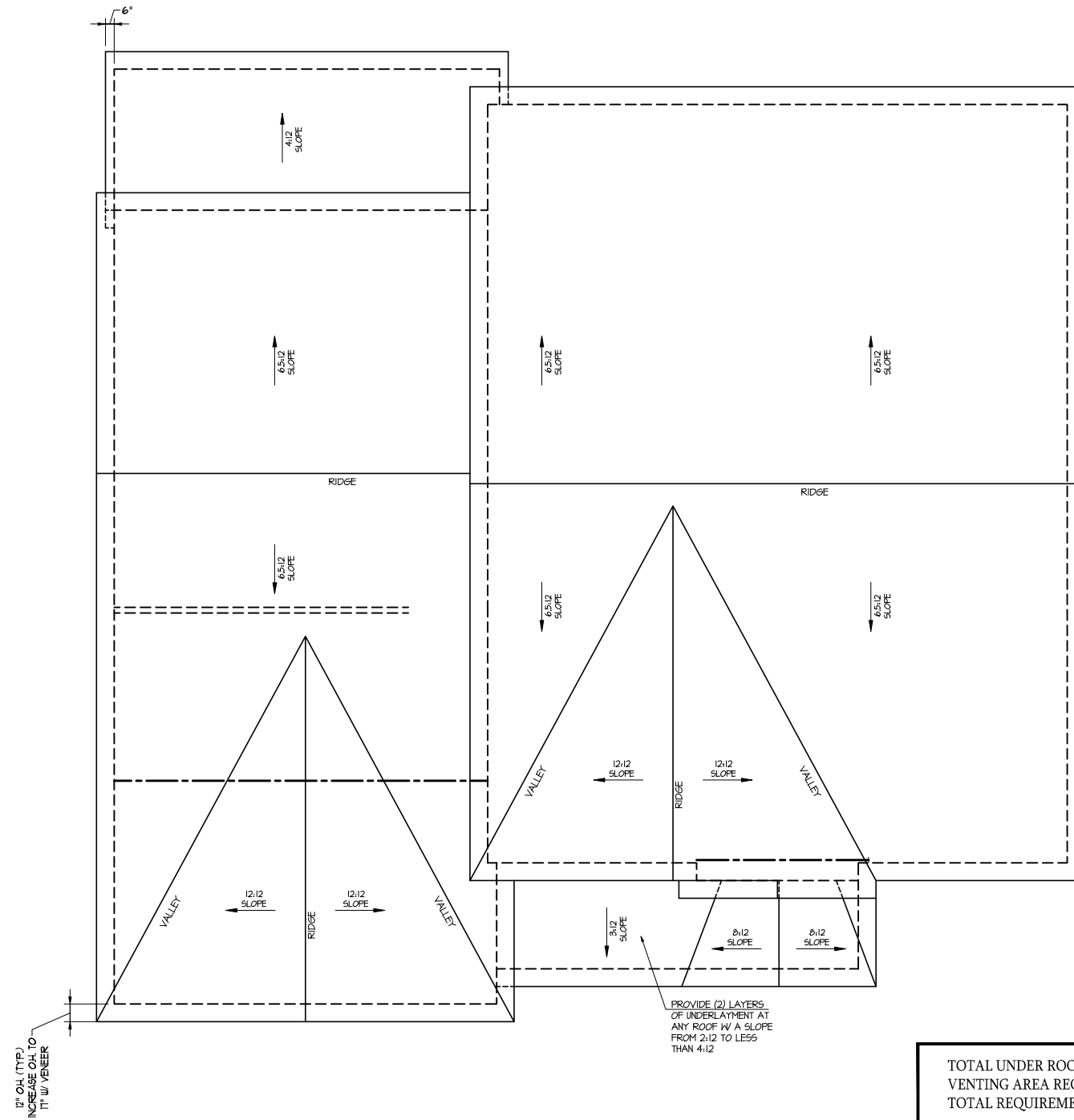
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FIRST FLOOR
PARTIAL PLANS -
"A" ELEVATIONS

A-6.1



ROOF PLAN
(A & B ELEVATIONS)

TOTAL UNDER ROOF AREA:		1934	SQ. FT.
VENTING AREA REQUIRED:	1934 SQ. FT. / 300 =	6.44	SQ. FT.
TOTAL REQUIREMENTS:	LOWER: 3.22	UPPER: 3.22	

LOWER AREA VENTING

SOFFIT VENT	SIZE:	PER UNIT:	# UNITS:	PROVIDED:
	-	.041 SF/LF	82'-0"	3.36
LOWER AREA VENTING PROVIDED:				-

UPPER AREA VENTING

RIDGE VENT	SIZE:	PER UNIT:	# UNITS:	PROVIDED:
	-	.125 SF/LF	65'-0"	8.12
UPPER AREA VENTING PROVIDED:				-

TOTAL AREA PROVIDED

SOFFIT AND RIDGE VENT	11.48
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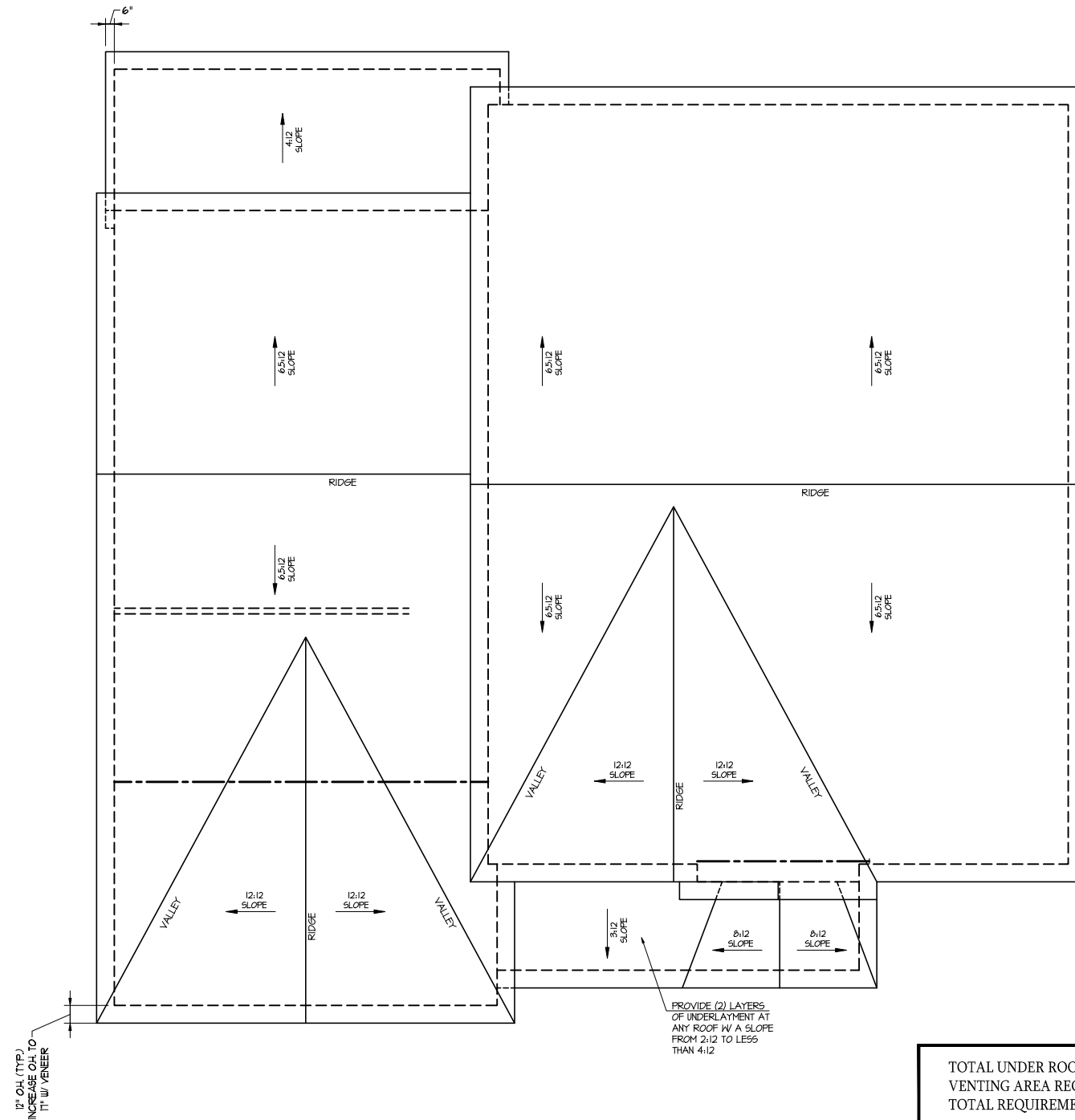


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ROOF PLAN
ELEVATION - A & B



ROOF PLAN
(A & B ELEVATIONS)

TOTAL UNDER ROOF AREA:		1934	SQ. FT.
VENTING AREA REQUIRED:	1934 SQ. FT. / 300 =	6.44	SQ. FT.
TOTAL REQUIREMENTS:	LOWER: 3.22	UPPER: 3.22	

LOWER AREA VENTING

SOFFIT VENT	SIZE:	PER UNIT:	# UNITS:	PROVIDED:
	-	.041 SF/LF	82'-0"	3.36
LOWER AREA VENTING PROVIDED:				-

UPPER AREA VENTING

RIDGE VENT	SIZE:	PER UNIT:	# UNITS:	PROVIDED:
	-	.125 SF/LF	65'-0"	8.12
UPPER AREA VENTING PROVIDED:				-

TOTAL AREA PROVIDED

SOFFIT AND RIDGE VENT	11.48
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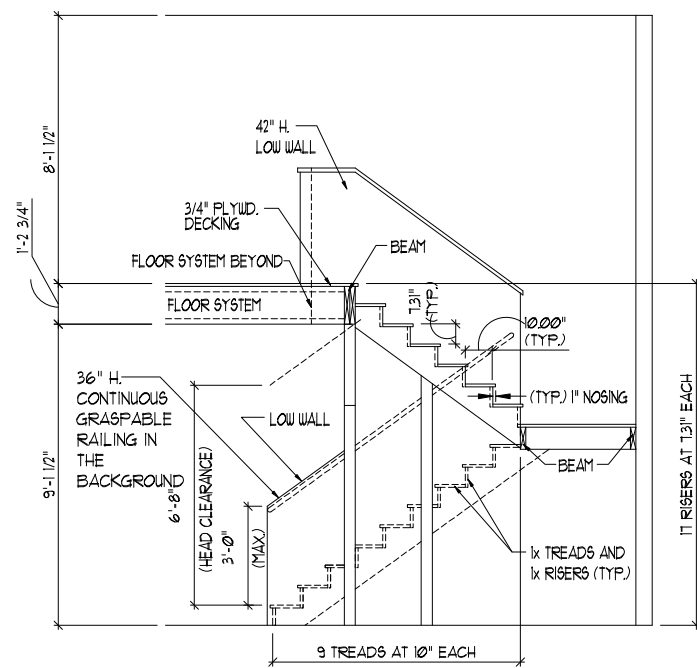
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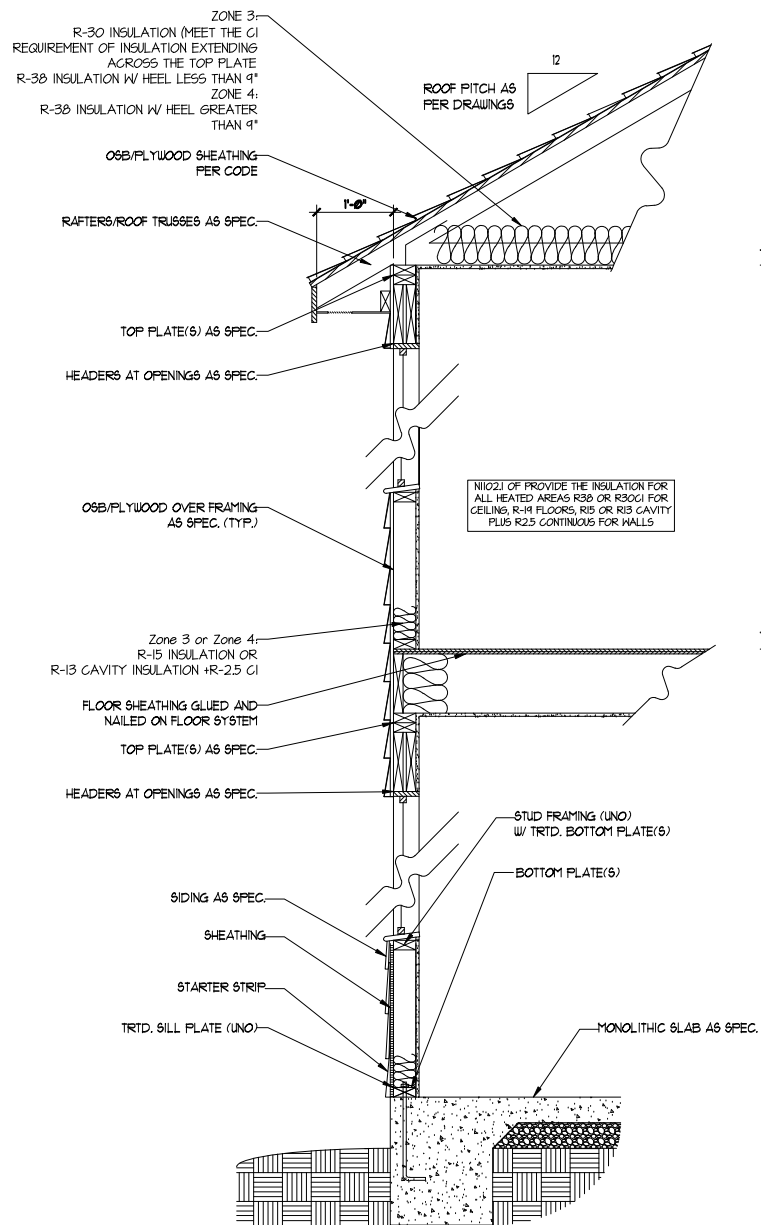
ROOF PLAN
ELEVATION - C

A8-2

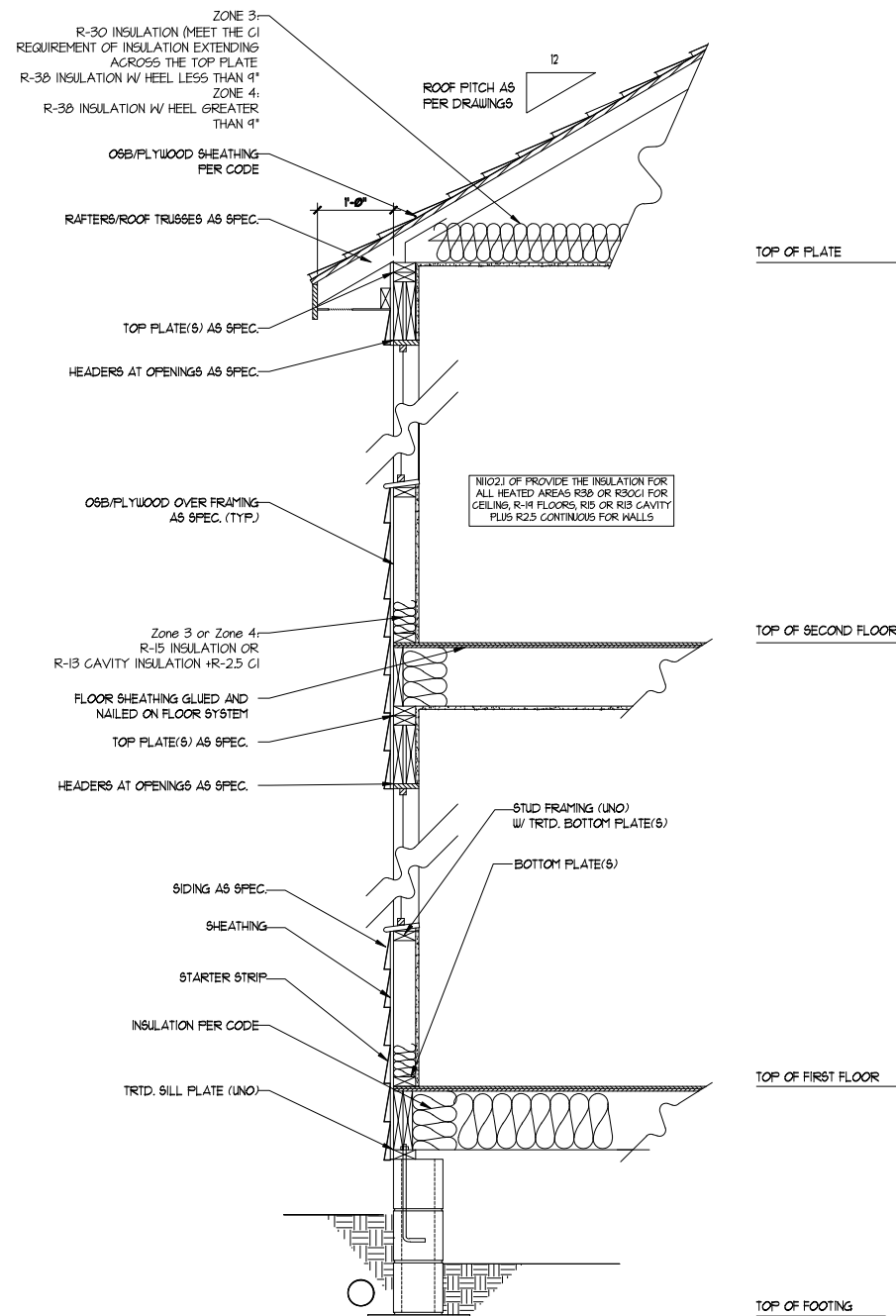


TYPICAL STAIR DETAIL
(NTS)

STAIR NOTES:
RAILING
 BALUSTERS SHALL BE SPACED SO THAT A 4" SPHERE CANNOT PASS THROUGH.
 THE TRIANGULAR OPENINGS FORMED BY THE RISER, TREAD AND BOTTOM RAIL OF A GUARD AT THE OPEN SIDE OF A STAIRWAY ARE PERMITTED TO BE A SUCH A SIZE THAT A SPHERE OF 6 INCHES CANNOT PASS THROUGH.
 OPENINGS FOR REQUIRED GUARDS ON THE SIDES OF STAIR TREADS SHALL NOT ALLOW A SPHERE 4 3/8 INCHES TO PASS THROUGH.
HANDRAILS:
 HANDRAILS FOR STAIRWAYS SHALL BE CONTINUOUS FOR THE FULL LENGTH OF THE FLIGHT, FROM A POINT DIRECTLY ABOVE THE TOP RISER OF THE FLIGHT TO A POINT DIRECTLY ABOVE THE LOWEST RISER. HANDRAIL ENDS SHALL BE RETURNED OR SHALL TERMINATE IN NEUEL POSTS OR SAFETY TERMINALS. HANDRAILS ADJACENT TO A WALL SHALL HAVE A SPACE OF NOT LESS THAN 1-1/2 INCH BETWEEN THE WALL AND HANDRAILS.
 CONTINUOUS GRASPABLE HANDRAIL MUST MEET TYPE ONE OR TYPE TWO CRITERIA



WALL SECTION W/ SLAB
W/ STD. SIDING SHOWN (NTS)



WALL SECTION W/ CRAWL SPACE
W/ STD. SIDING SHOWN (NTS)

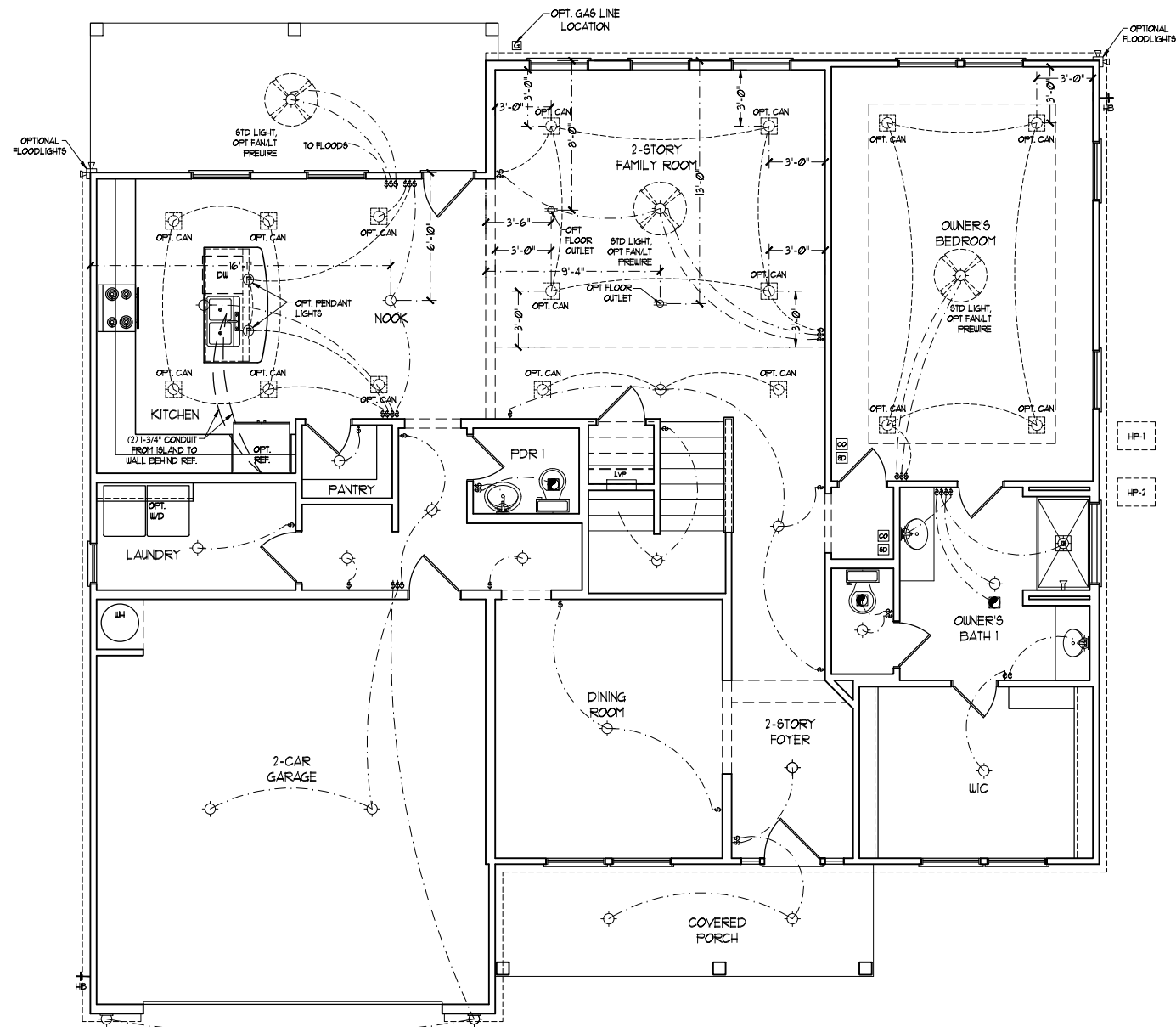


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WALL SECTIONS
 AND STAIR
 DETAIL
 AD-1



FIRST FLOOR
PLAN

- ELECTRICAL LAYOUT NOTES:**
- 1) BLOCK AND WIRE FOR ALL CEILING FANS PER PLAN.
 - 2) VANITY LIGHTS TO BE SET # 30" AFF. (TYP.)
 - 3) ADDITIONAL EXTERIOR OUTLETS REQUIRED BY CODE TO BE LOCATED BY ELECTRICIAN.
 - 4) PLACE SWITCHES 8" (MIN) FROM ROUGH OPENINGS.

ELECTRICAL LEGEND	
	110 V OUTLET
	WALL MOUNT LIGHT
	CEILING MOUNT LIGHT
	PENDANT LIGHT
	RECESSED CAN LIGHT
	MINI CAN LIGHT
	EYEBALL LIGHT
	FLUORESCENT LIGHT
	2 LAMP, 4' FLUORESCENT LIGHT
	FLOOD LIGHT
	SWITCH
	3-WAY SWITCH
	4-WAY SWITCH
	DIMMER SWITCH
	CONDUIT FOR COMPONENT WIRING
	SPEAKER
	DOORBELL CHIME
	110 V SMOKE DETECTOR
	CO DETECTOR
	EXHAUST FAN
	LOW VOLTAGE PANEL
	CEILING FAN
	CEILING FAN w/ LIGHT

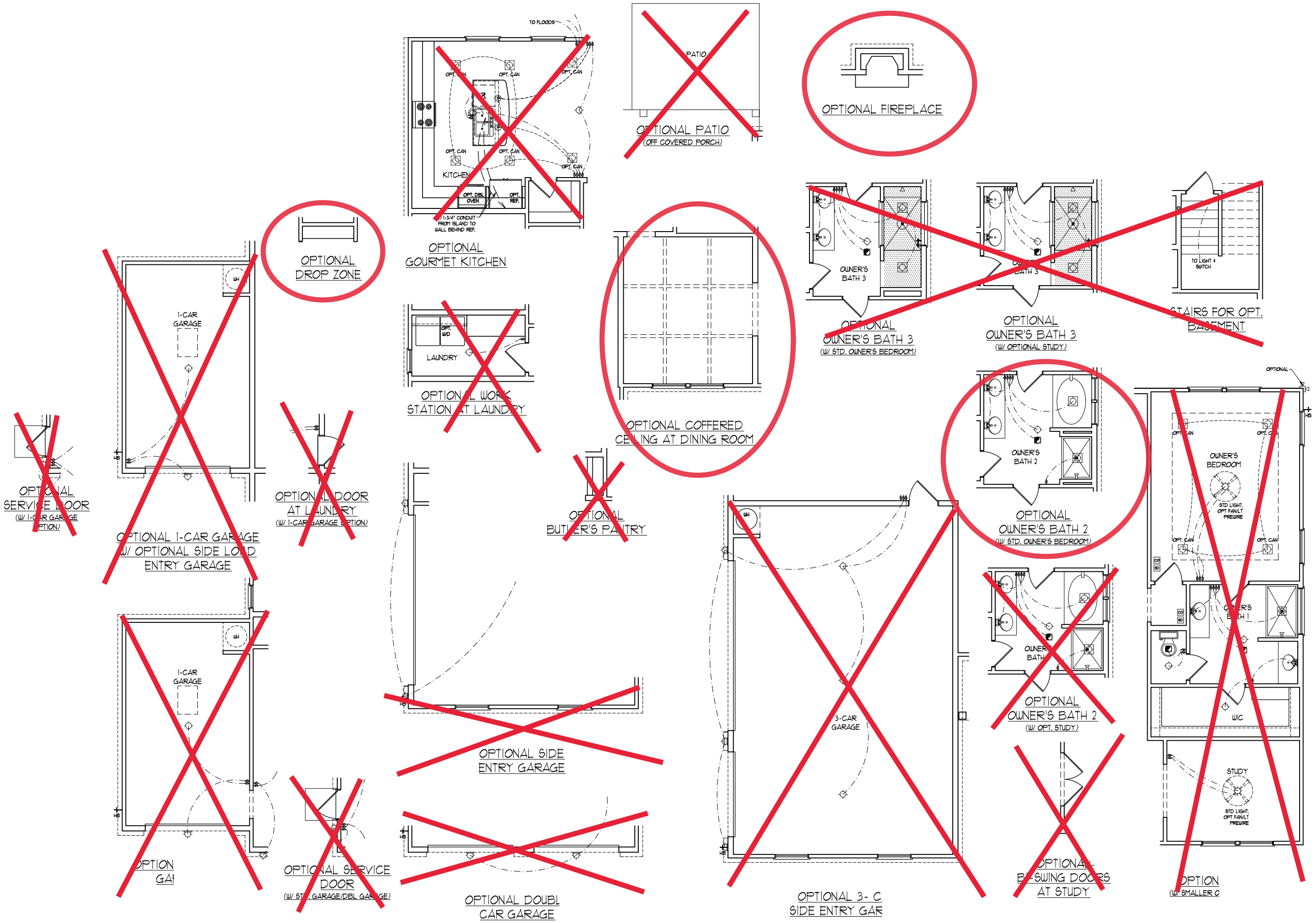


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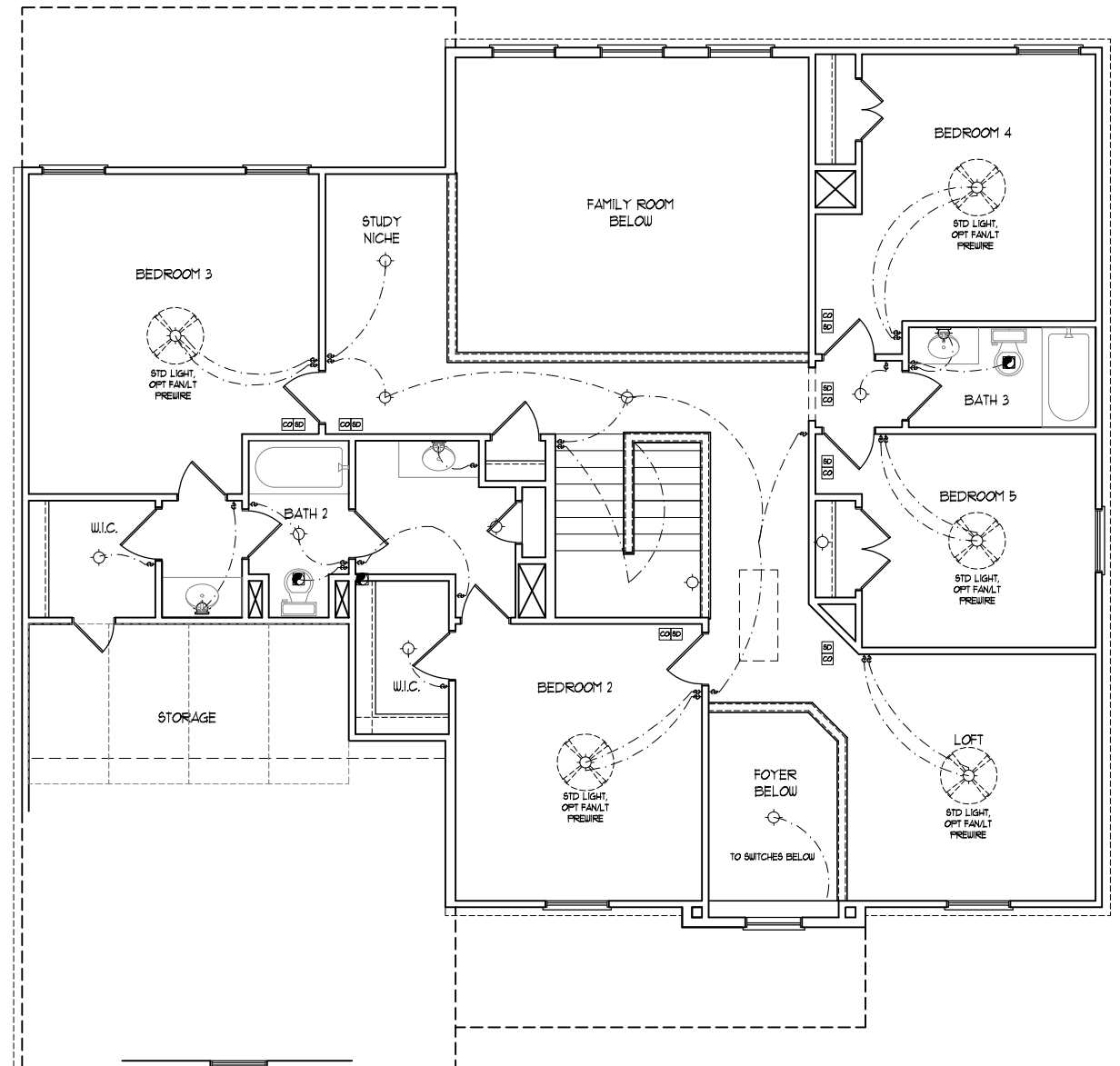
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FIRST FLOOR
ELECTRICAL
PLAN
E-1



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DREAM FINDERS HOMES
 JACKSON
 DATE: FEBRUARY 27, 2019
 REV.: DECEMBER 01, 2022
 SCALE: 1/4"=1'-0"
 DRAWN BY:
 ENGINEERED BY:
 REVIEWED BY:
 FIRST FLOOR ELECTRICAL PLAN - OPTIONS



SECOND FLOOR PLAN

ELECTRICAL LAYOUT NOTES:

- 1) BLOCK AND WIRE FOR ALL CEILING FANS PER PLAN.
- 2) VANITY LIGHTS TO BE SET # 30" AFF. (TYP.)
- 3) ADDITIONAL EXTERIOR OUTLETS REQUIRED BY CODE TO BE LOCATED BY ELECTRICIAN.
- 4) PLACE SWITCHES 8" (MIN) FROM ROUGH OPENINGS.

ELECTRICAL LEGEND	
	110 V OUTLET
	WALL MOUNT LIGHT
	CEILING MOUNT LIGHT
	PENDANT LIGHT
	RECESSED CAN LIGHT
	MINI CAN LIGHT
	EYEBALL LIGHT
	FLUORESCENT LIGHT
	2 LAMP, 4' FLUORESCENT LIGHT
	FLOOD LIGHT
	SWITCH
	3-WAY SWITCH
	4-WAY SWITCH
	DIMMER SWITCH
	CONDUIT FOR COMPONENT WIRING
	SPEAKER
	DOORBELL CHIME
	110 V SMOKE DETECTOR
	CO DETECTOR
	EXHAUST FAN
	LOW VOLTAGE PANEL
	CEILING FAN
	CEILING FAN W/ LIGHT



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DREAM FINDERS HOMES
JACKSON

DATE: FEBRUARY 27, 2019
REV.: DECEMBER 01, 2022
SCALE: 1/4"=1'-0"
DRAWN BY:
ENGINEERED BY:
REVIEWED BY:

SECOND FLOOR ELECTRICAL PLAN

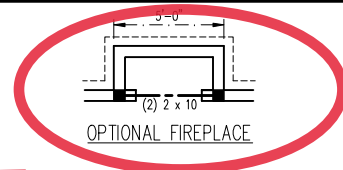
LINTEL SCHEDULE FOR BRICK/NATURAL STONE SUPPORT

LENGTH (FT.)	SIZE OF LINTEL
UP TO 4 FT.	L 3 1/2 x 3 1/2 x 1/4
4-8	L 5 x 3 1/2 x 5/16 LLV
8 AND GREATER	L 6 x 4 x 5/16 LLV

- BRICK SUPPORT NOTES:**
- LINTEL SCHEDULE APPLIES TO ALL OPENINGS IN BRICK VENEER (UNO). SEE ARCH DWGS. FOR SIZE AND LOCATION OF OPENINGS.
 - (LLV) = LONG LEG VERTICAL
 - LENGTH = CLEAR OPENING
 - EMBED ALL ANGLE IRONS MIN. 4" EACH SIDE INTO VENEER TO PROVIDE BEARING.
 - FOR ALL HEADERS 8'-0" AND GREATER IN LENGTH, ATTACH STEEL ANGLE TO HEADER W/ 1/2" LAG SCREWS @ 12" O.C. STAGGERED.
 - FOR ALL BRICK SUPPORT @ ROOF LINES, FASTEN (2) 2 x 10 BLOCKING BETWEEN STUDS W/ (4) 12d NAILS PER PLY. FASTEN A 6" x 4" x 5/16" STEEL ANGLE TO (2) 2 x 10 BLOCKING W/ (2) 1/2" LAG SCREWS @ 12" O.C. STAGGERED. SEE SECTION R703.8.2.1 OF THE 2018 NRC FOR ADDITIONAL BRICK SUPPORT INFORMATION.
 - PRECAST REINFORCED CONCRETE LINTELS ENGINEERED BY OTHERS MAY BE USED IN LIEU OF STEEL LINTELS.

LEGEND

CONT	CONTINUOUS
XJ	EXTRA JOIST
DJ	DOUBLE JOIST
TJ	TRIPLE JOIST
EA	EACH
()	NUMBER OF STUDS
DSP	DOUBLE STUD POCKET
TSP	TRIPLE STUD POCKET
OC	ON CENTER
SPF	SPRUCE PINE FIR
SYP	SOUTHERN YELLOW PINE
TRTD	PRESSURE TREATED
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE



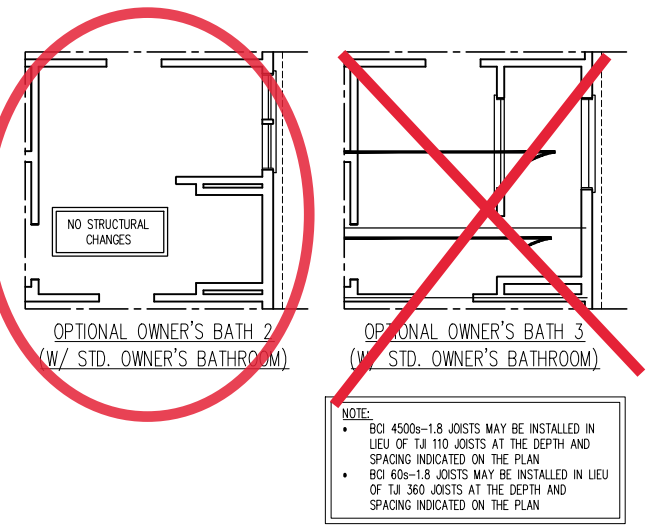
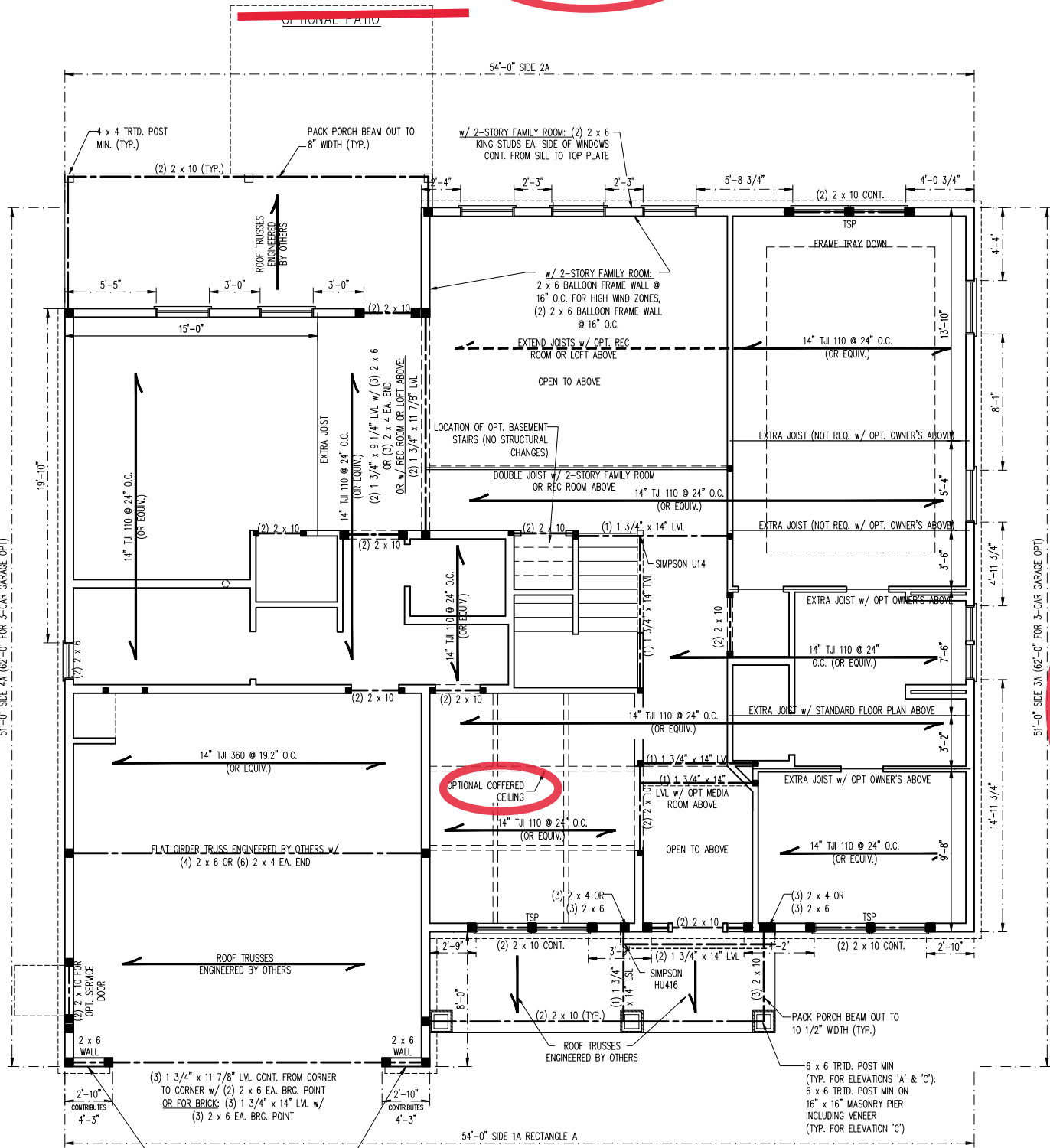
**TABLE R602.7.5
MINIMUM NUMBER OF FULL HEIGHT KING STUDS AT EACH END OF HEADERS IN EXTERIOR WALLS**

HEADER SPAN (FEET)	MINIMUM NUMBER OF FULL HEIGHT STUDS (KINGS)
UP TO 3'	1
> 3' TO 6'	2
> 6' TO 9'	3
> 9' TO 12'	4
> 12' TO 15'	5

- STRUCTURAL NOTES:**
- ALL FRAMING LUMBER TO BE #2 SPF (UNO). ALL TREATED LUMBER TO BE #2 SYP (UNO).
 - ALL LOAD BEARING HEADERS TO BE (2) 2 x 10 (UNO).
 - INSTALL AN EXTRA JOIST UNDER WALLS PARALLEL TO FLOOR JOISTS WHERE NOTED ON THE PLANS.
 - WINDOW AND DOOR HEADERS TO BE SUPPORTED W/ (1) JACK STUD AND (1) KING STUD EA END (UNO). SEE TABLE R602.7.5 FOR ADDITIONAL KING STUD REQUIREMENTS.
 - SQUARES DENOTE POINT LOADS WHICH REQUIRE SOLID BLOCKING TO GORDER OR FOUNDATION. ALL SQUARES TO BE (2) STUDS (UNO).
 - FOR HIGH WIND ZONES, ALL EXTERIOR WALLS TO BE SHEATHED WITH 7/16" OSB SHEATHING WITH JOINTS BLOCKED AND SECURED WITH 8d NAILS AT 3" O.C. ALONG EDGES AND 6" O.C. IN THE FIELD.
 - FOR HIGH WIND ZONES, SECURE ALL EXTERIOR WALL SHEATHING PANELS TO DOUBLE TOP PLATES, BANDS, JOISTS, AND GORDER WITH (2) ROWS OF 8d NAILS STAGGERED AT 3" O.C. PANELS SHALL EXTEND 12" BEYOND CONSTRUCTION JOINTS AND SHALL OVERLAP GORDER AND DOUBLE SILL PLATES THEIR FULL DEPTH.
 - ALL 4 x 4 POSTS SHALL BE ANCHORED TO SLABS W/ SIMPSON ABU44 POST BASES (OR EQUAL) AND 6 x 6 POSTS W/ ABU66 POST BASES (OR EQUAL) (UNO). ALL 4 x 4 AND 6 x 6 POSTS TO BE INSTALLED WITH 700 LB CAPACITY UPLIFT CONNECTORS AT TOP (UNO).
 - FOR FIBERGLASS, ALUMINUM, OR COLUMN ENG. BY OTHERS, SECURE TO SLAB W/ (2) METAL ANGLES USING 2" CONC. SCREWS. FASTEN ANGLES TO COLUMNS W/ 1/4" THROUGH BOLTS W/ NUTS AND WASHERS. LOCATE ANGLES ON OPPOSITE SIDES OF COLUMN. THROUGH BOLTS MUST BE INSTALLED PRIOR TO SETTING COLUMN.
 - REFER TO NOTES AND DETAIL SHEETS FOR ADDITIONAL STRUCTURAL INFORMATION.

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N.C. LICENSE NO.: C-1733

JACKSON
DREAM FINDERS HOMES



***NOTE: ALL EXTERIOR WALLS AND ATTIC WALLS ARE TO BE 2 x 6 @ 16" O.C. (UNO). 2 x 4 @ 16" O.C. EXTERIOR WALLS MAY BE CONSTRUCTED IN LIEU OF 2 x 6 WALLS (UNO). ALL INTERIOR LOAD BEARING WALLS ARE TO BE 2 x 4 @ 16" O.C. (UNO) AND NON-LOAD BEARING INTERIOR WALLS ARE TO BE 2 x 4 @ 24" O.C. (UNO).**



- BRACED WALL DESIGN NOTES:**
- BRACED WALL DESIGN PER SECTION R602.10 OF THE NRC 2018 EDITION.
 - CS-WSP REFERS TO "CONTINUOUS SHEATHING - WOOD STRUCTURAL PANELS" CONTRACTOR IS TO INSTALL 7/16" OSB ON ALL EXTERIOR WALLS ATTACHED W/ 8d NAILS SPACED 6" O.C. ALONG PANEL EDGES AND 12" O.C. IN THE FIELD.
 - *GB REFERS TO "GYPSUM BOARD" CONTRACTOR IS TO INSTALL 1/2" (MIN.) GYPSUM WALL BOARD WHERE NOTED ON THE PLANS. FASTEN GB WITH 1 1/4" SCREWS OR 1 5/8" NAILS SPACED 7" O.C. ALONG PANEL EDGES AND IN THE FIELD INCLUDING TOP AND BOTTOM PLATES.
 - BRACED WALL DESIGN APPLIED IN WIND ZONES UP TO 130 MPH. FOR HIGH WIND ZONES, BRACE WALLS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH CHAPTER 45 OF THE NRC 2018 EDITION.
 - SEE NOTES AND DETAIL SHEETS FOR ADDITIONAL BRACED WALL INFORMATION.

BRACED WALL DESIGN

RECTANGLE A		RECTANGLE B	
SIDE 1A (FRONT LOAD)	SIDE 1B	SIDE 1B	SIDE 1B
METHOD: CS-WSP/PF	METHOD: PF/CS-WSP	METHOD: PF/CS-WSP	METHOD: PF/CS-WSP
TOTAL REQUIRED LENGTH: 18.95'	TOTAL REQUIRED LENGTH: 18.95'	TOTAL REQUIRED LENGTH: 4.56'	TOTAL REQUIRED LENGTH: 4.56'
TOTAL PROVIDED LENGTH: 22'	TOTAL PROVIDED LENGTH: 22'	TOTAL PROVIDED LENGTH: 6'	TOTAL PROVIDED LENGTH: 6'
SIDE 2A	SIDE 2B	SIDE 2B	SIDE 2B
METHOD: CS-WSP	METHOD: CS-WSP	METHOD: CS-WSP	METHOD: CS-WSP
TOTAL REQUIRED LENGTH: 18.95'	TOTAL REQUIRED LENGTH: 18.95'	TOTAL REQUIRED LENGTH: 4.56'	TOTAL REQUIRED LENGTH: 4.56'
TOTAL PROVIDED LENGTH: 27.6'	TOTAL PROVIDED LENGTH: 27.6'	TOTAL PROVIDED LENGTH: 12'	TOTAL PROVIDED LENGTH: 12'
SIDE 3A	SIDE 3B / SIDE 4A CUMULATIVE	SIDE 3B / SIDE 4A CUMULATIVE	SIDE 3B / SIDE 4A CUMULATIVE
METHOD: CS-WSP	METHOD: CS-WSP/GB	METHOD: CS-WSP/GB	METHOD: CS-WSP/GB
TOTAL REQUIRED LENGTH: 19.9'	TOTAL REQUIRED LENGTH: 23.1'	TOTAL REQUIRED LENGTH: 23.1'	TOTAL REQUIRED LENGTH: 23.1'
TOTAL PROVIDED LENGTH: 32.3'	TOTAL PROVIDED LENGTH: 32.3'	TOTAL PROVIDED LENGTH: 26.1'	TOTAL PROVIDED LENGTH: 26.1'
SIDE 4A (SIDE LOAD)	SIDE 4B	SIDE 4B	SIDE 4B
METHOD: CS-WSP/PF	METHOD: CS-WSP	METHOD: CS-WSP	METHOD: CS-WSP
TOTAL REQUIRED LENGTH: 19.9'	TOTAL REQUIRED LENGTH: 3.19'	TOTAL REQUIRED LENGTH: 3.19'	TOTAL REQUIRED LENGTH: 3.19'
TOTAL PROVIDED LENGTH: 22.79'	TOTAL PROVIDED LENGTH: 15.58'	TOTAL PROVIDED LENGTH: 15.58'	TOTAL PROVIDED LENGTH: 15.58'

DATE: DECEMBER 22, 2022
SCALE: 1/4" = 1'-0"
DRAWN BY: H&H HOMES
ENGINEERED BY: WFB

SHEET 9 OF 14
S-2a
SECOND FLOOR FRAMING PLAN

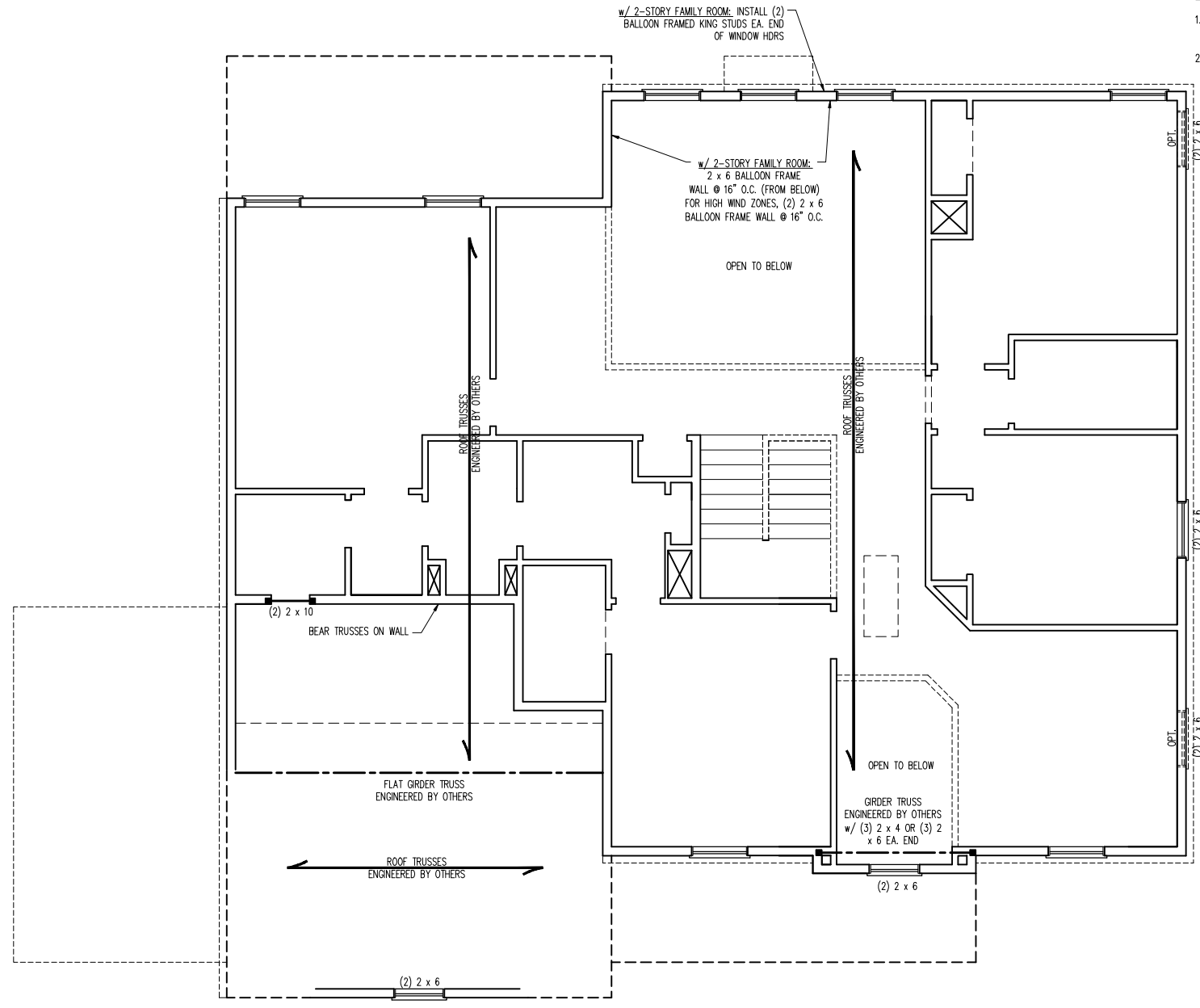
BRACED WALL DESIGN NOTES:

1. BRACED WALL DESIGN PER SECTION R602.10 OF THE NRC 2018 EDITION.
2. CS-WSP REFERS TO "CONTINUOUS SHEATHING - WOOD STRUCTURAL PANELS" CONTRACTOR IS TO INSTALL 7/16" OSB ON ALL EXTERIOR WALLS ATTACHED w/ 8d NAILS SPACED 6" O.C. ALONG PANEL EDGES AND 12" O.C. IN THE FIELD.
3. *GB REFERS TO "GYPSUM BOARD" CONTRACTOR IS TO INSTALL 1/2" (MIN.) GYPSUM WALL BOARD WHERE NOTED ON THE PLANS. FASTEN GB WITH 1 1/4" SCREWS OR 1 5/8" NAILS SPACED 7" O.C. ALONG PANEL EDGES AND IN THE FIELD INCLUDING TOP AND BOTTOM PLATES.
4. BRACED WALL DESIGN APPLIED IN WIND ZONES UP TO 130 MPH. FOR HIGH WIND ZONES, BRACE WALLS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH CHAPTER 45 OF THE NRC 2018 EDITION.
5. SEE NOTES AND DETAIL SHEETS FOR ADDITIONAL BRACED WALL INFORMATION.

***NOTE: ALL EXTERIOR WALLS AND ATTIC WALLS ARE TO BE 2 x 6 @ 16" O.C. (UNO). 2 x 4 @ 16" O.C. EXTERIOR WALLS MAY BE CONSTRUCTED IN LIEU OF 2 x 6 WALLS (UNO). ALL INTERIOR LOAD BEARING WALLS ARE TO BE 2 x 4 @ 16" O.C. (UNO) AND NON-LOAD BEARING INTERIOR WALLS ARE TO BE 2 x 4 @ 24" O.C. (UNO).**

NOTE:

1. PER SECTION R602.10.3.2 OF THE 2018 NRC, THE AMOUNT OF BRACING ON THE SECOND FLOOR EXCEEDS THE AMOUNT REQUIRED FOR THE FIRST FLOOR AND NO BRACED WALL ANALYSIS IS REQUIRED.
2. SHEATH ALL EXTERIOR WALLS WITH 7/16" OSB SHEATHING ATTACHED WITH 8d NAILS AT 6" O.C. ALONG PANEL EDGES AND 12" O.C. IN THE FIELD.



LEGEND

CONT	CONTINUOUS
XJ	EXTRA JOIST
DJ	DOUBLE JOIST
TJ	TRIPLE JOIST
EA	EACH
()	NUMBER OF STUDS
DSP	DOUBLE STUD POCKET
TSP	TRIPLE STUD POCKET
OC	ON CENTER
SPF	SPRUCE PINE FIR
SYP	SOUTHERN YELLOW PINE
TRTD	PRESSURE TREATED
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE

LINTEL SCHEDULE FOR BRICK/NATURAL STONE SUPPORT

LENGTH (FT.)	SIZE OF LINTEL
UP TO 4 FT.	L 3 1/2 x 3 1/2 x 1/4
4-8	L 5 x 3 1/2 x 5/16 LLV
8 AND GREATER	L 6 x 4 x 5/16 LLV

BRICK SUPPORT NOTES:

1. LINTEL SCHEDULE APPLIES TO ALL OPENINGS IN BRICK VENEER (UNO). SEE ARCH DWGS. FOR SIZE AND LOCATION OF OPENINGS.
2. (LLV) = LONG LEG VERTICAL
3. LENGTH = CLEAR OPENING
4. EMBED ALL ANGLE IRONS MIN. 4" EACH SIDE INTO VENEER TO PROVIDE BEARING.
5. FOR ALL HEADERS 8'-0" AND GREATER IN LENGTH, ATTACH STEEL ANGLE TO HEADER W/ 1/2" LAG SCREWS @ 12" O.C. STAGGERED.
6. FOR ALL BRICK SUPPORT @ ROOF LINES, FASTEN (2) 2 x 10 BLOCKING BETWEEN STUDS w/ (4) 12d NAILS PER PLY. FASTEN A 6" x 4" x 5/16" STEEL ANGLE TO (2) 2 x 10 BLOCKING w/ (2) 1/2" LAG SCREWS @ 12" O.C. STAGGERED. SEE SECTION R703.8.2.1 OF THE 2018 NRC FOR ADDITIONAL BRICK SUPPORT INFORMATION.
7. PRECAST REINFORCED CONCRETE LINTELS ENGINEERED BY OTHERS MAY BE USED IN LIEU OF STEEL LINTELS.

STRUCTURAL NOTES:

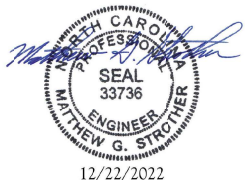
1. ALL FRAMING LUMBER TO BE SPF #2 (UNO). ALL TREATED LUMBER TO BE SYP #2 (UNO).
2. ALL LOAD BEARING HEADERS TO BE (2) 2 x 10 (UNO).
3. WINDOW AND DOOR HEADERS TO BE SUPPORTED w/ (1) JACK STUD AND (1) KING STUD EA. END (UNO). SEE TABLE R602.7.5 FOR ADDITIONAL KING STUD REQUIREMENTS.
4. SQUARES DENOTE POINT LOADS WHICH REQUIRE SOLID BLOCKING TO GIRDER OR FOUNDATION. ALL SQUARES TO BE (2) STUDS (UNO).
5. FOR HIGH WIND ZONES, ALL EXTERIOR WALLS TO BE SHEATHED WITH 7/16" OSB SHEATHING WITH JOINTS BLOCKED AND SECURED WITH 8d NAILS AT 3" O.C. ALONG EDGES AND 6" O.C. IN THE FIELD.
6. FOR HIGH WIND ZONES, SECURE ALL EXTERIOR WALL SHEATHING PANELS TO DOUBLE TOP PLATES, BANDS, JOISTS, AND GIRDERS WITH (2) ROWS OF 8d NAILS STAGGERED AT 3" O.C. PANELS SHALL EXTEND 12" BEYOND CONSTRUCTION JOINTS AND SHALL OVERLAP GIRDERS AND DOUBLE SILL PLATES THEIR FULL DEPTH.
7. SUPPORT GABLE WALLS NOT BRACED BY CEILING JOISTS OR FLOOR SYSTEM WITH 2 x 4 LATERAL BRACING INSTALLED ON TOP OF CEILING JOISTS OR TRUSS BOTTOM CHORDS AT 8'-0" O.C. AND EXTEND INWARD FROM GABLE WALLS 8'-0" MIN. REFER TO NOTES AND DETAIL SHEETS FOR ADDITIONAL STRUCTURAL INFORMATION.

**TABLE R602.7.5
MINIMUM NUMBER OF FULL HEIGHT KING STUDS AT EACH END OF HEADERS IN EXTERIOR WALLS**

HEADER SPAN (FEET)	MINIMUM NUMBER OF FULL HEIGHT STUDS (KINGS)
UP TO 3'	1
> 3' TO 6'	2
> 6' TO 9'	3
> 9' TO 12'	4
> 12' TO 15'	5

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N.C. LICENSE NO.: C1733

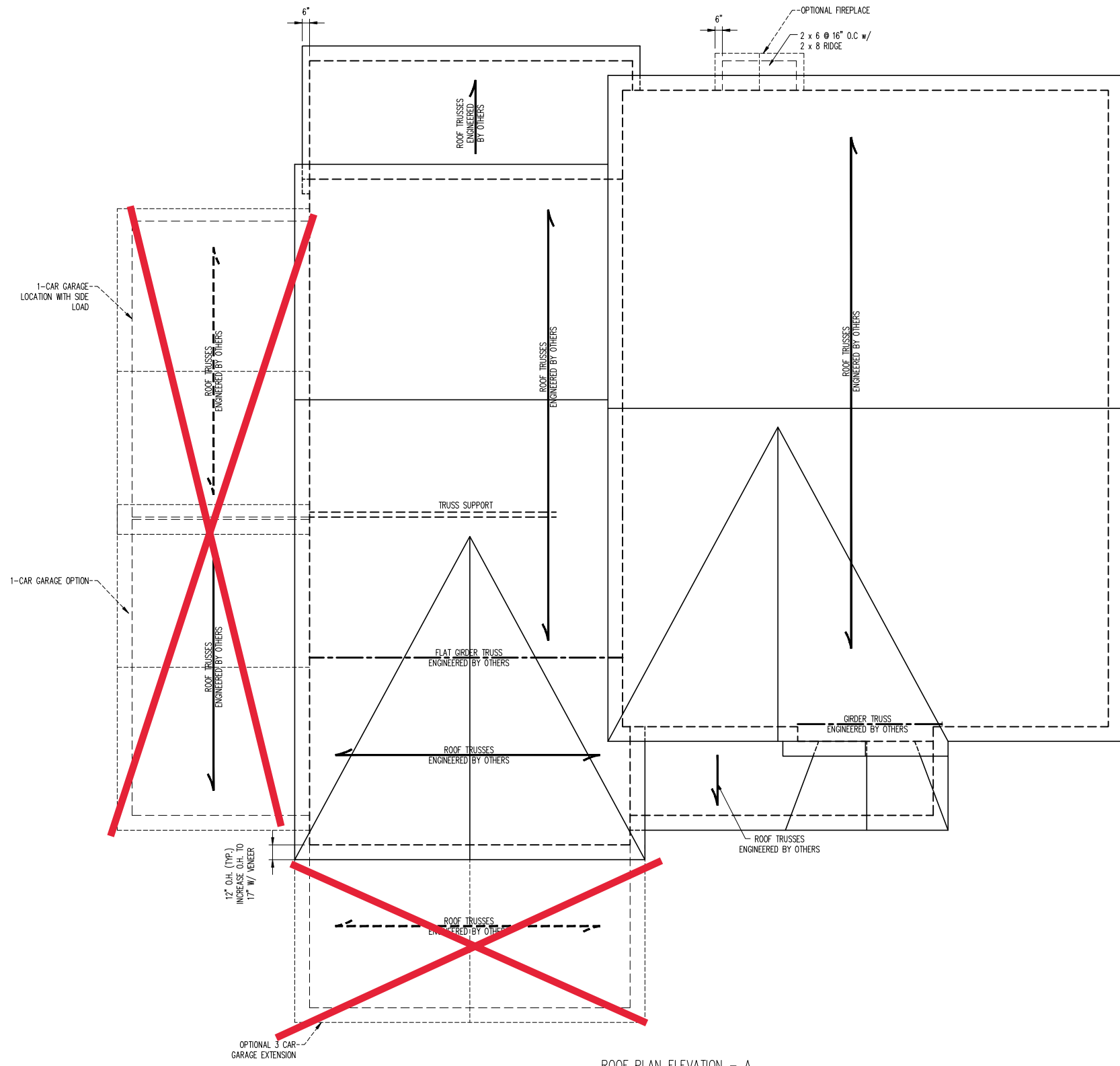
JACKSON DREAM FINDERS HOMES



12/22/2022

DATE: DECEMBER 22, 2022
SCALE: 1/4" = 1'-0"
DRAWN BY: HSLH HOMES
ENGINEERED BY: WFB

SHEET 11 OF 14
S-3a
CEILING FRAMING PLAN



ROOF PLAN ELEVATION - A

BRICK SUPPORT NOTE:

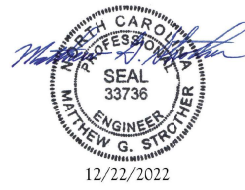
1. FASTEN (2) 2 x 10 BLOCKING BETWEEN WALL STUDS w/ (4) 12d NAILS PER PLY. FASTEN A 6" x 4" x 5/16" STEEL ANGLE TO (2) 2 x 10 BLOCKING w/ (2) 1/2" LAG SCREWS @ 12" O.C. STAGGERED. SEE SECTION R703.8.2.1 OF THE 2018 NRC FOR ADDITIONAL BRICK SUPPORT INFORMATION.
2. WHERE ROOF SLOPES EXCEED 7:12, INSTALL 3" x 3" x 1/4" STEEL PLATE STOPS AT 24" O.C. PER SECTION R703.8.2.1 OF THE NORTH CAROLINA RESIDENTIAL CODE, 2018 EDITION.

STRUCTURAL NOTES:

1. ALL FRAMING LUMBER TO BE #2 SPF (UNO).
2. CIRCLES DENOTE (3) 2 x 4 POSTS FOR ROOF SUPPORT.
3. FRAME DORMER WALLS ON TOP OF DOUBLE OR TRIPLE RAFTERS.
4. HIP SPLICES ARE TO BE SPACED A MIN. OF 8'-0". FASTEN MEMBERS WITH THREE ROWS OF 12d NAILS @ 16" O.C. (TYP.)
5. STICK FRAME OVER-FRAMED ROOF SECTIONS W/ 2 x 8 RIDGES, 2 x 6 RAFTERS @ 16" O.C. AND FLAT 2 x 10 VALLEYS OR USE VALLEY TRUSSES.
6. FASTEN FLAT VALLEYS TO RAFTERS OR TRUSSES WITH SIMPSON H2.5A HURRICANE TIES @ 32" O.C. MAX. PASS HURRICANE TIES THROUGH NOTCH IN ROOF SHEATHING. EACH RAFTER IS TO BE FASTENED TO THE FLAT VALLEY WITH A MIN. OF (6) 12d TOE NAILS.
7. REFER TO SECTION R802.11 OF THE 2018 NRC FOR REQUIRED UPLIFT RESISTANCE AT RAFTERS AND TRUSSES.
8. REFER TO NOTES AND DETAIL SHEETS FOR ADDITIONAL STRUCTURAL INFORMATION.

LEGEND

XT	EXTRA TRUSS
TS	TRUSS SUPPORT
XR	EXTRA RAFTER
RS	RAFTER SUPPORT
CONT	CONTINUOUS
EA	EACH
OC	ON CENTER
SPF	SPRUCE PINE FIR
SYP	SOUTHERN YELLOW PINE
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE



12/22/2022

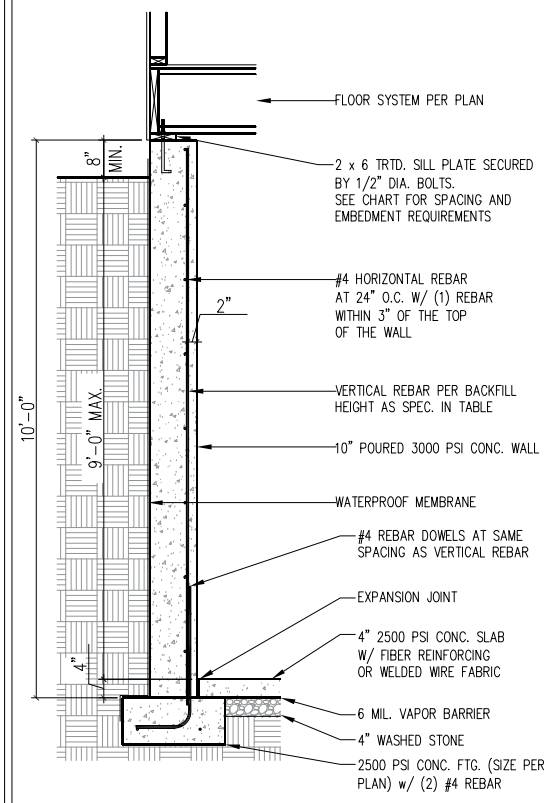
J.S. THOMPSON ENGINEERING, INC
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 N.C. LICENSE NO.: C1173

JACKSON
 DREAM FINDERS HOMES

DATE: DECEMBER 22, 2022
 SCALE: 1/4" = 1'-0"
 DRAWN BY: HSLH HOMES
 ENGINEERED BY: WFB

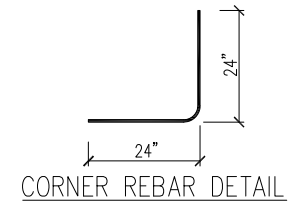
SHEET 13 OF 14
S-4a
 ROOF FRAMING PLAN

10" POURED BASEMENT WALL



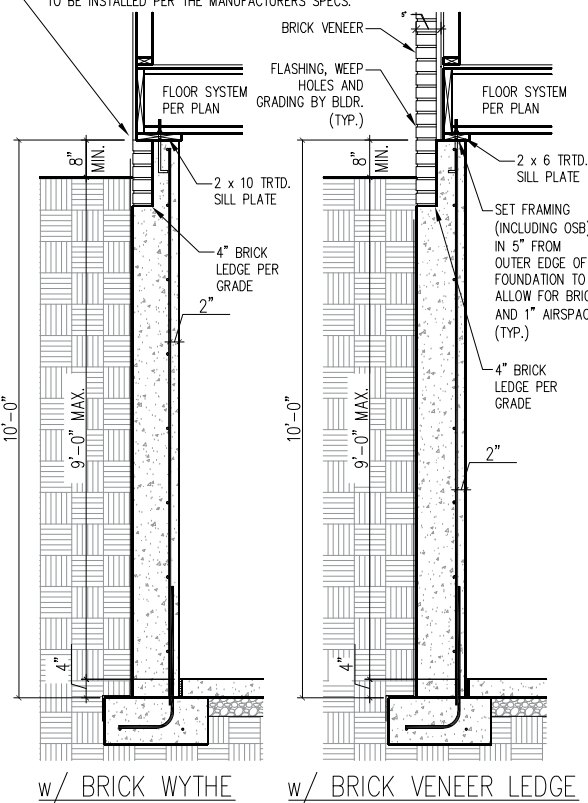
BACKFILL HEIGHT (FT)	VERTICAL REBAR
≤ 5	#4 @ 48" O.C.
6	#4 @ 32" O.C.
7	#4 @ 24" O.C. OR #5 @ 36" O.C. OR #6 @ 56" O.C.
8	#4 @ 20" O.C. OR #5 @ 32" O.C. OR #6 @ 48" O.C.
9	#4 @ 16" O.C. OR #5 @ 24" O.C. OR #6 @ 40" O.C.

BASEMENT WALL REINFORCEMENT TABLE



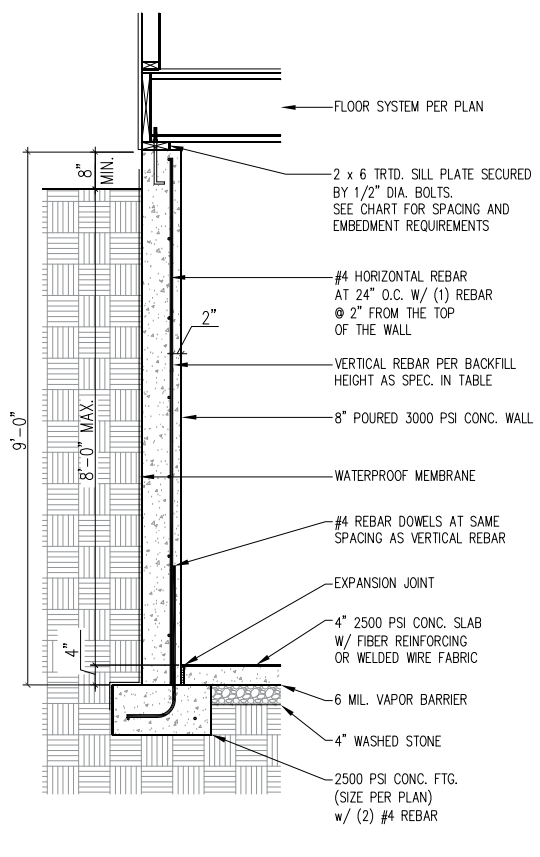
CORNER REBAR DETAIL

WHERE FRAMED WALLS WILL BE SUPPORTED PARTIALLY BY THE BRICK WYTHE, STANDARD CORRUGATED WALL TIES ARE TO BE FASTENED TO THE POURED WALLS w/ 1 1/4" LONG CONCRETE SCREWS OR 1 1/16" POWDER DRIVEN FASTENERS @ 16" O.C. HORIZONTALLY AND VERTICALLY. WALL TIES ARE TO BE LOCATED A MIN. OF 8" FROM THE TOP OF THE WALL AND ARE FULLY EMBEDDED INTO THE HEAD AND BED JOINTS. ALL FASTENERS ARE TO BE INSTALLED PER THE MANUFACTURERS SPECS.



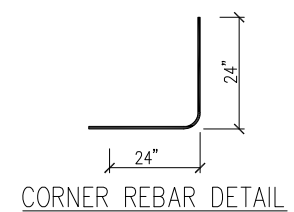
w/ BRICK WYTHE w/ BRICK VENEER LEDGE

8" POURED BASEMENT WALL



BACKFILL HEIGHT (FT)	VERTICAL REBAR
≤ 5	#4 @ 48" O.C.
6	#4 @ 24" O.C. OR #5 @ 36" O.C.
7	#4 @ 16" O.C. OR #5 @ 24" O.C. OR
8	#4 @ 12" O.C. OR #5 @ 18" O.C. OR #6 @ 28" O.C. OR

BASEMENT WALL REINFORCEMENT TABLE



CORNER REBAR DETAIL

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 N.C. LICENSE NO.: C-1733

120 MPH - 130 MPH ULTIMATE DESIGN WIND SPEED
 POURED WALL BASEMENT FOUNDATION DETAILS
 DREAM FINDERS HOMES



DATE: NOVEMBER 29, 2022
SCALE: NTS
DRAWN BY: JST
ENGINEERED BY: JST

FOUNDATION DETAILS
 D-3

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ANCHOR SPACING AND EMBEDMENT

WIND ZONE	120 MPH	130 MPH
SPACING	6'-0" O.C. INSTALL MIN. (2) ANCHORS PER PLATE SECTION AND (1) ANCHOR WITHIN 12" OF CORNERS	4'-0" O.C. INSTALL MIN. (2) ANCHORS PER PLATE SECTION AND (1) ANCHOR WITHIN 12" OF CORNERS
EMBEDMENT	7"	15" INTO MASONRY 7" INTO CONCRETE

NOTE:
 THREADED ROD WITH EPOXY, SIMPSON TITEN HD, OR APPROVED ANCHORS SPACED AS REQUIRED TO PROVIDE EQUIVALENT ANCHORAGE TO 1/2" DIAMETER ANCHOR BOLTS MAY BE USED IN LIEU OF 1/2" ANCHOR BOLTS.

IMPORTANT NOTE:

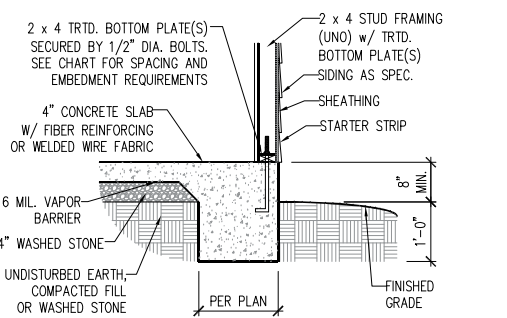
FOUNDATIONS AS DENOTED IN THESE DETAILS ARE NOT SUITABLE FOR SUPPORT OF ADDITIONAL SURCHARGE LOADING FROM ADJACENT STRUCTURES OR DRIVEWAYS. FOUNDATIONS WITH EXTRA LATERAL LOADING IN THESE SCENARIOS WILL REQUIRE LOT SPECIFIC DESIGN ON A CASE BY CASE BASIS. CONSULT THE ENGINEER OF RECORD WHEN PLANNING TO BUILD IN CLOSE PROXIMITY TO THE FOUNDATION AS WE WILL NOT BE HELD LIABLE FOR FOUNDATION FAILURE. SEE R403.1.9 OF THE 2018 NCRS FOR ADDITIONAL INFORMATION.

STRUCTURAL NOTES:

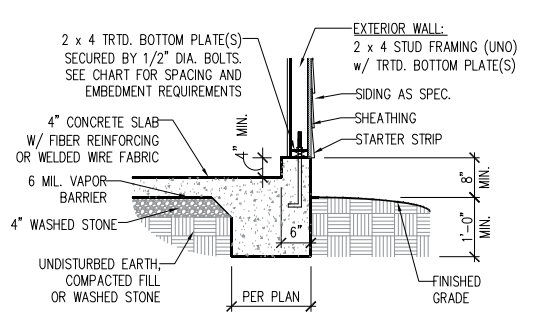
- FOR #4 REBAR, 24" MINIMUM REBAR LAP SPLICE LENGTH. FOR #5 REBAR, 32" MINIMUM REBAR LAP SPLICE LENGTH. FOR #6 REBAR, 38" MINIMUM REBAR LAP SPLICE LENGTH.
- REBAR TO MAINTAIN A MINIMUM CONCRETE COVER OF 3" (UNO).
- REBAR TO BE ASTM A615 GRADE 60.
- SOIL BEARING CAPACITY IS REQUIRED TO BE 2000 PSF MIN.
- INSTALL #4 L-BARS AT ALL WALL CORNERS AT SAME SPACING AS HORIZ. STEEL. SEE DETAIL.
- THE FLOOR FRAMING IS TO BE INSTALLED AND A MIN. OF SEVEN DAYS IS REQUIRED TO ALLOW THE CONCRETE TO CURE BEFORE THE BACKFILL CAN BE INSTALLED. THE BACKFILL IS RECOMMENDED TO BE PLACED IN 12" LIFTS AND CAREFULLY TAMPED.
- A 4" LEDGE IS TO BE PROVIDED FOR THE PORCH SLAB. THE WALLS ARE REQUIRED TO BE BONDED TO THE SLABS USING #4 x 36" REBAR DOWELS 32" O.C. EMBEDDED 4" INTO THE CONC. USING EPOXY.
- WHERE THE FLOOR JOISTS ARE PARALLEL TO THE WALLS, 2 x 4 BLOCKING IS TO BE INSTALLED 24" O.C. BETWEEN THE BOTTOM FLANGES OF THE JOISTS FOR A MIN. OF 6'-0" AWAY FROM THE WALL OR DIAGONAL 2 x 6 BLOCKS MAY BE INSTALLED 24" O.C. FROM THE EDGE OF THE SILL PLATE TO THE TOP FLANGE AND SUBFLOORING, ATTACHED W/ (3) 12d NAILS EACH END.

NOTE TO FOUNDATION CONTRACTOR:

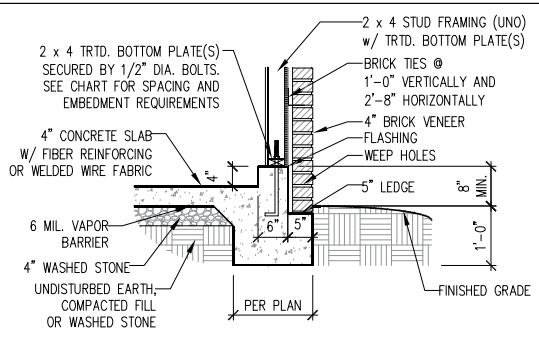
ALTERNATE REINFORCED CONCRETE POURED WALL DESIGNS ENGINEERED BY OTHERS MAY BE CONSTRUCTED. NO CONTINUOUS FOOTINGS OR LUG FOOTINGS MAY BE REDUCED IN SIZE.



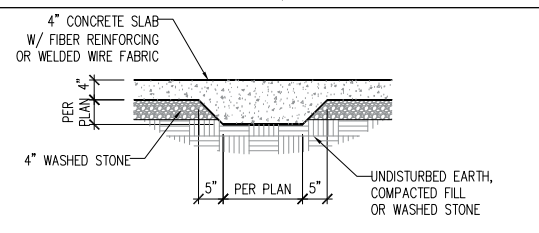
TYPICAL SLAB



GARAGE CURB

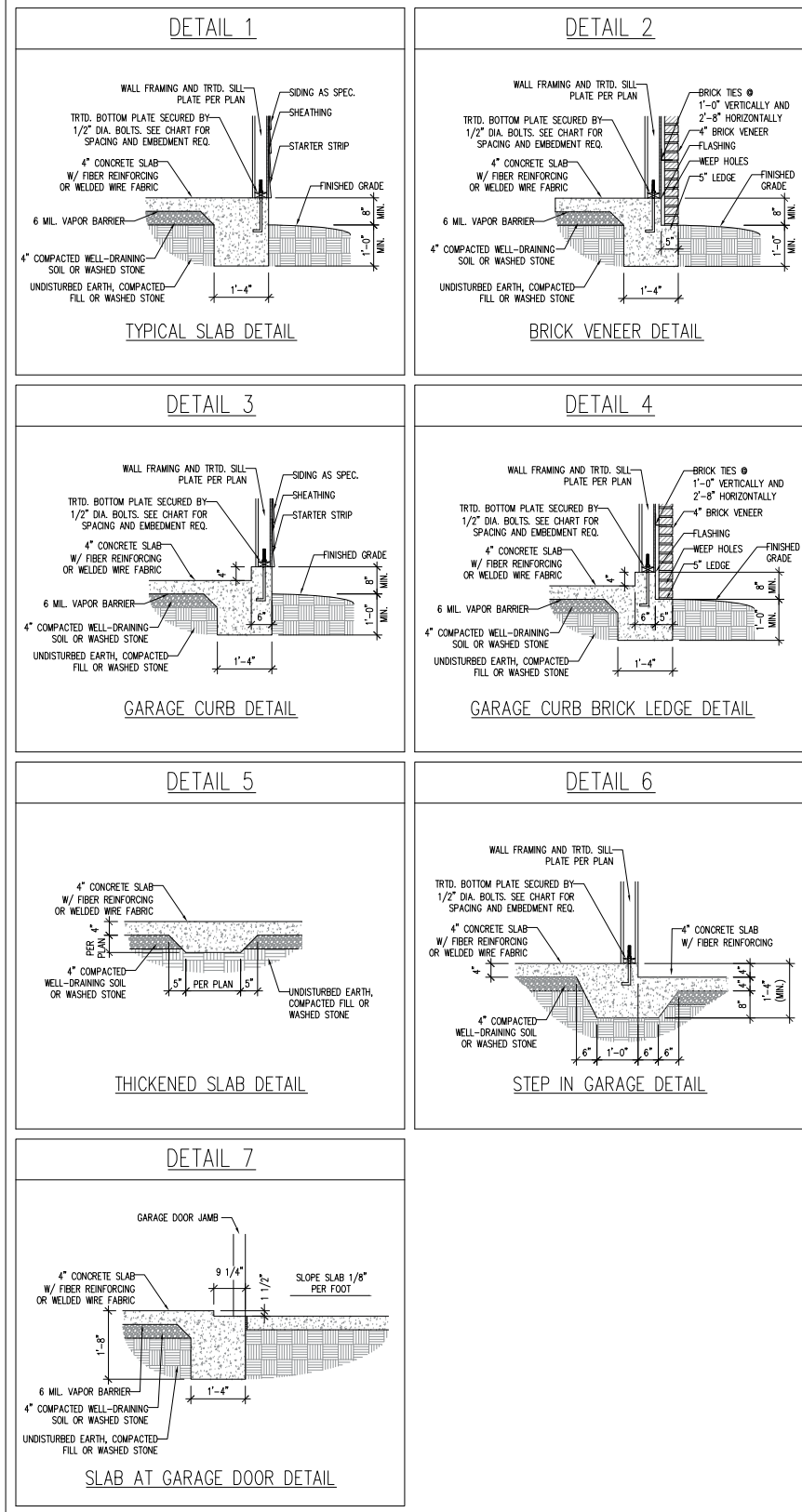


GARAGE CURB w/ BRICK LEDGE

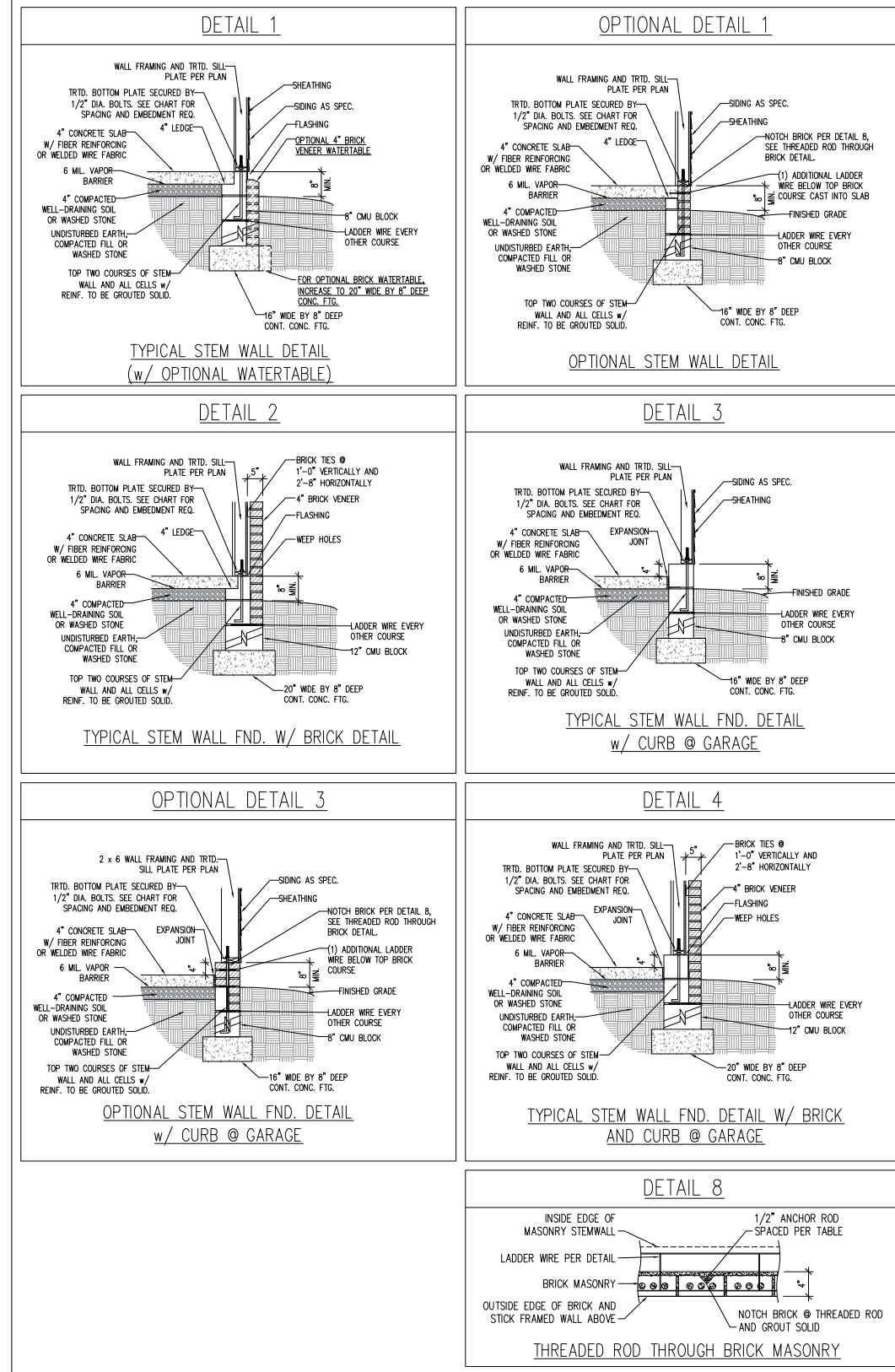


TYPICAL THICKENED SLAB

MONOLITHIC SLAB DETAILS



STEM WALL DETAILS



MASONRY STEM WALL SPECIFICATIONS

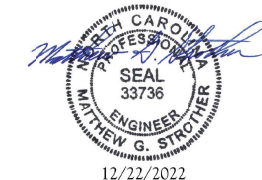
WALL HEIGHT (FEET)	MASONRY WALL TYPE			
	8" CMU	4" BRICK AND 4" CMU	4" BRICK AND 8" CMU	12" CMU
2 AND BELOW	UNGROUTED	GROUT SOLID	UNGROUTED	UNGROUTED
3	UNGROUTED	GROUT SOLID	UNGROUTED	UNGROUTED
4	GROUT SOLID	GROUT SOLID w/ #4 REBAR @ 48" O.C.	GROUT SOLID	GROUT SOLID w/ #4 REBAR @ 64" O.C.
5	GROUT SOLID w/ #4 REBAR @ 36" O.C.	NOT APPLICABLE	GROUT SOLID w/ #4 REBAR @ 36" O.C.	GROUT SOLID w/ #4 REBAR @ 64" O.C.
6	GROUT SOLID w/ #4 REBAR @ 24" O.C.	NOT APPLICABLE	GROUT SOLID w/ #4 REBAR @ 24" O.C.	GROUT SOLID w/ #4 REBAR @ 64" O.C.
7 AND GREATER	ENGINEERED DESIGN BASED ON SITE CONDITIONS			

- STRUCTURAL NOTES:
1. WALL HEIGHT MEASURED FROM TOP OF FOOTING TO TOP OF THE WALL.
 2. THE MULTIPLE WYTHES TOGETHER WITH LADDER WIRE AT 16" O.C. VERTICALLY.
 3. CHART APPLICABLE FOR HOUSE FOUNDATION ONLY, CONSULT ENGINEER FOR DESIGN OF GARAGE FOUNDATION NOT COMMON TO HOUSE.
 4. BACKFILL OF CLEAN #57 / #67 WASHED STONE IS ALLOWABLE.
 5. BACKFILL OF WELL DRAINED OR SAND - GRAVEL MIXTURE SOILS (45 PSF/FT BELOW GRADE) CLASSIFIED AS GROUP 1 ACCORDING TO UNIFIED SOILS CLASSIFICATION SYSTEM IN ACCORDANCE WITH TABLE R405.1 OF THE 2018 INTERNATIONAL RESIDENTIAL CODE ARE ALLOWABLE.
 6. PREP SLAB PER R506.2.1 AND R506.2.2 BASE OF THE 2018 INTERNATIONAL RESIDENTIAL CODE.
 7. MINIMUM 24" LAP SPICE LENGTH.
 8. LOCATE REBAR IN CENTER OF FOUNDATION WALL.
 9. WHERE REQUIRED, FILL BLOCK SOLID WITH TYPE "S" MORTAR OR 3000 PSI GROUT. USE OF "LOW LIFT GROUTING" METHOD REQUIRED WHEN FILLING WALLS WITH GROUT AT HEIGHTS OF 5' AND GREATER.

ANCHOR SPACING AND EMBEDMENT

WIND ZONE	120 MPH	130 MPH
SPACING	6'-0" O.C. INSTALL MIN. (2) ANCHORS PER PLATE SECTION AND (1) ANCHOR WITHIN 12" OF CORNERS	4'-0" O.C. INSTALL MIN. (2) ANCHORS PER PLATE SECTION AND (1) ANCHOR WITHIN 12" OF CORNERS
EMBEDMENT	7"	15" INTO MASONRY 7" INTO CONCRETE.

NOTE:
THREADED ROD WITH EPOXY, SIMPSON TITEN HD, OR APPROVED ANCHORS SPACED AS REQUIRED TO PROVIDE EQUIVALENT ANCHORAGE TO 1/2" DIAMETER ANCHOR BOLTS MAY BE USED IN LIEU OF 1/2" ANCHOR BOLTS.



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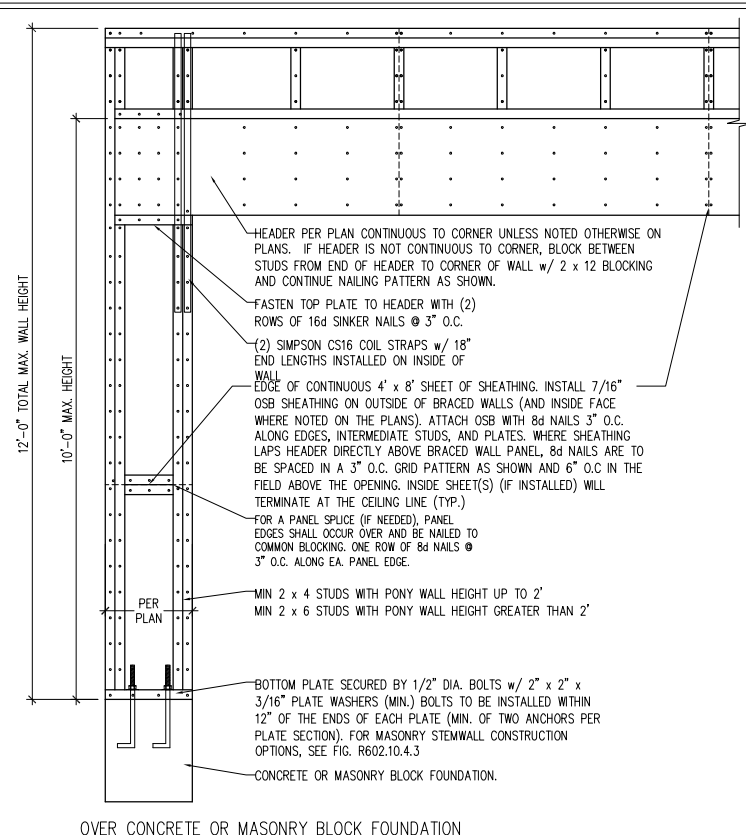
120 MPH - 130 MPH ULTIMATE DESIGN WIND SPEED
FOUNDATION DETAILS
DREAM FINDERS HOMES

DATE: NOVEMBER 28, 2022
SCALE: NTS
DRAWN BY: JST
ENGINEERED BY: JST

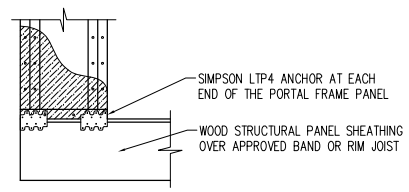
D-1
FOUNDATION DETAILS

GENERAL WALL BRACING NOTES:

1. WALL BRACING DESIGNED IN ACCORDANCE WITH CHAPTER 6 OF THE 2018 NC RESIDENTIAL BUILDING CODE (NRC). TABLES AND FIGURES REFERENCED ARE FROM THE 2018 NRC.
2. SEE THIS SHEET FOR GENERAL DETAILS. REFER TO THE 2018 NRC FOR ADDITIONAL INFORMATION AS NEEDED.
3. BRACED EXTERIOR WALLS SUPPORTING ROOF TRUSSES AND RAFTERS, INCLUDING STORES BELOW THE TOP FLOOR, HAVE BEEN DESIGNED IN ACCORDANCE WITH ACCEPTED ENGINEERING PRACTICE.
4. SEE STRUCTURAL SHEETS FOR BRACED WALL LOCATIONS, DIMENSIONS, HOLD DOWN TYPE AND LOCATIONS, BRACED WALL LINE KEY WITH WALL DESIGN SUMMARY OF REQUIRED/PROVIDED TOTALS FOR EACH WALL LINE AND ANY SPECIAL NOTES OR REQUIREMENTS.
5. ALL EXTERIOR WALLS ARE TO BE SHEATHED WITH CS-WSP IN ACCORDANCE WITH SECTION R602.10.3 UNLESS NOTED OTHERWISE.
6. ALL EXTERIOR AND INTERIOR WALLS TO HAVE 1/2" GYPSUM INSTALLED. WHEN NOT USING METHOD "GB", GYPSUM TO BE FASTENED PER TABLE R702.3.5. METHOD GB TO BE FASTENED PER TABLE R602.10.1.
7. CS-WSP REFERS TO THE "CONTINUOUS SHEATHING - WOOD STRUCTURAL PANELS" WALL BRACING METHOD. 7/16" OSB SHEATHING IS TO BE INSTALLED ON ALL EXTERIOR WALLS ATTACHED w/ 6d COMMON NAILS OR 8d (2 1/2" LONG x 0.113" DIAMETER) NAILS SPACED 6" O.C. ALONG PANEL EDGES AND 12" O.C. IN THE FIELD (U.N.O.).
8. GB REFERS TO THE "GYPSUM BOARD" WALL BRACING METHOD. 1/2" (MIN.) GYPSUM WALL BOARD IS TO BE INSTALLED ON BOTH SIDES OF THE BRACED WALL FASTENED WITH 1 1/4" SCREWS OR 1 5/8" NAILS SPACED 7" O.C. ALONG PANEL EDGES INCLUDING TOP AND BOTTOM PLATES AND INTERMEDIATE SUPPORTS (U.N.O.). VERIFY ALL FASTENER OPTIONS FOR 1/2" AND 5/8" GYPSUM PRIOR TO CONSTRUCTION. FOR INTERIOR FASTENER OPTIONS SEE TABLE R702.3.5. FOR EXTERIOR FASTENER OPTIONS SEE TABLE R602.3(1). EXTERIOR GB TO BE INSTALLED VERTICALLY.
9. REQUIRED BRACED WALL LENGTH FOR EACH SIDE OF THE CIRCUMSCRIBED RECTANGLE ARE INTERPOLATED PER TABLE R602.10.3. METHOD CS-WSP CONTRIBUTES ITS ACTUAL LENGTH, METHOD GB CONTRIBUTES .5 ITS ACTUAL LENGTH, AND METHOD PF CONTRIBUTES 1.5 TIMES ITS ACTUAL LENGTH.

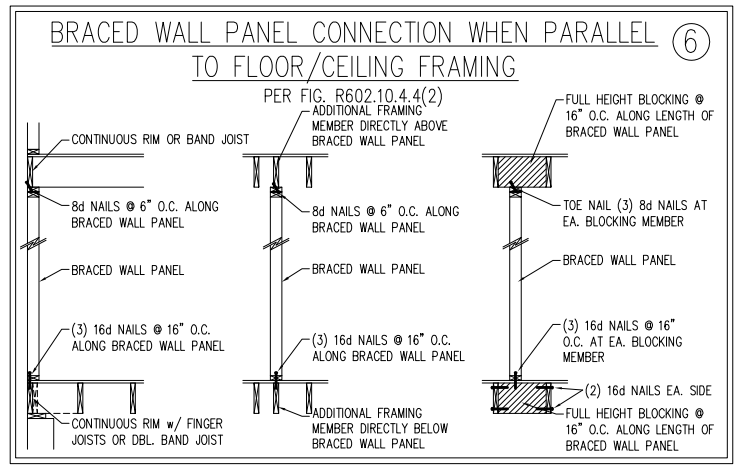
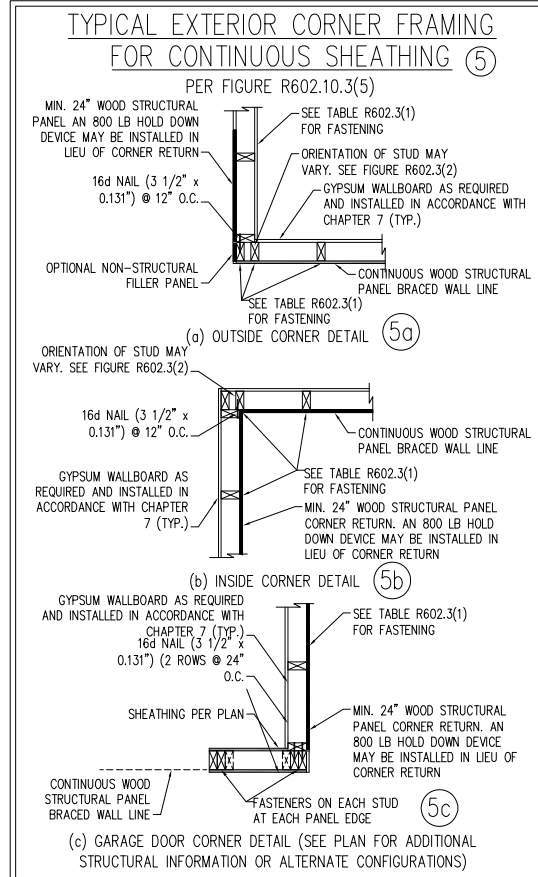
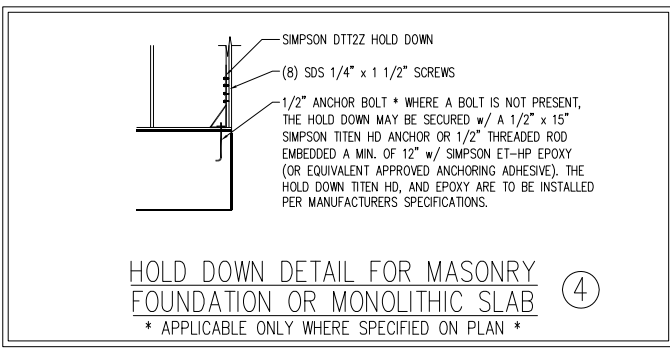
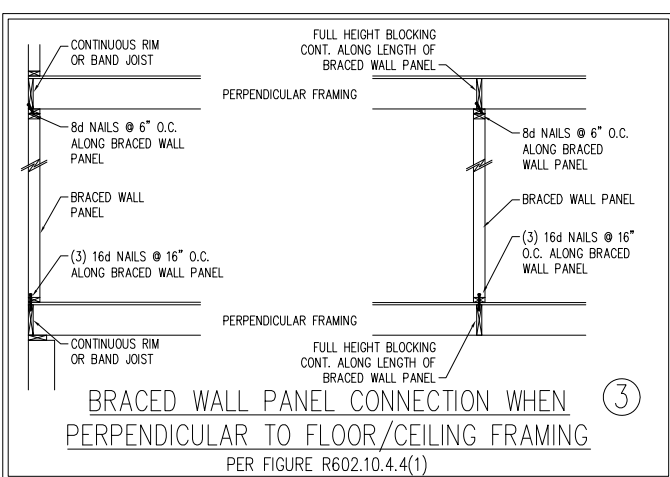
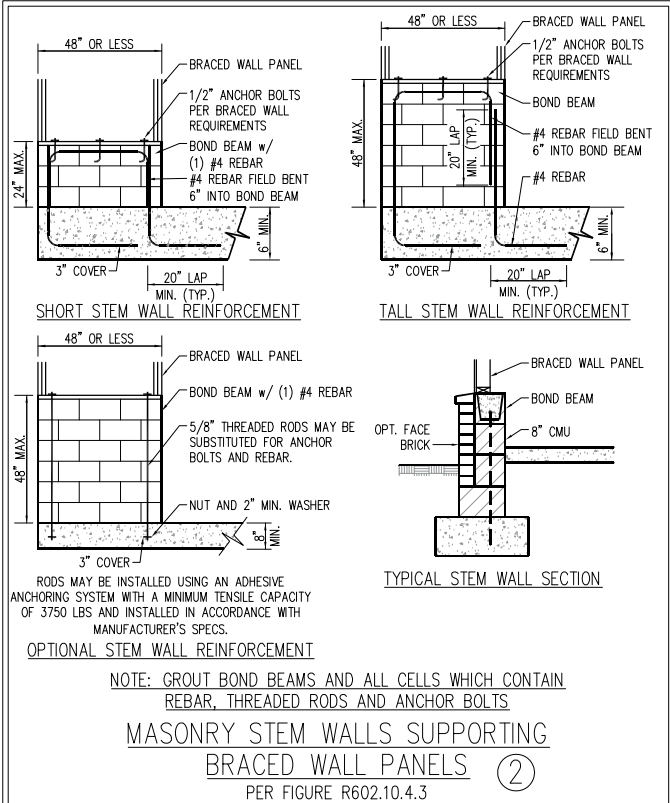


OVER CONCRETE OR MASONRY BLOCK FOUNDATION

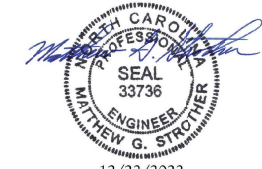
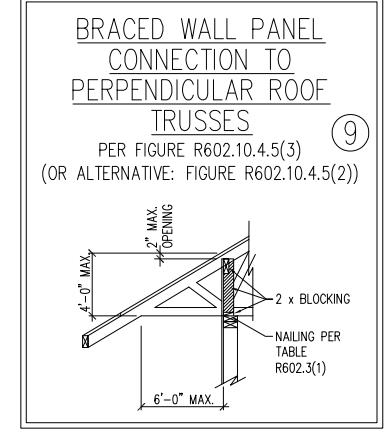
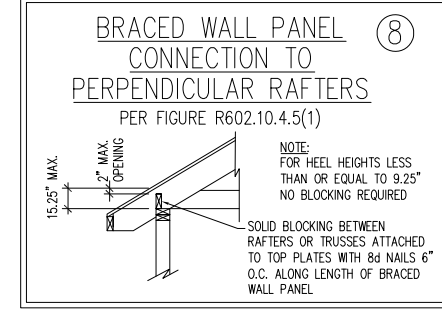
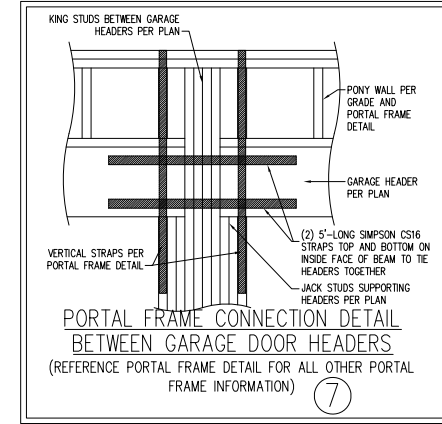


OVER RAISED WOOD FLOOR - FRAMING ANCHOR OPTION
* APPLICABLE w/ GREATER THAN 12" KNEE WALL HEIGHTS IN CRAWL SPACE AND ABOVE FRAMED BASEMENT WALLS *

METHOD PF-PORTAL FRAME DETAIL ①



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12/22/2022

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120 MPH + 130 MPH ULTIMATE DESIGN WIND SPEED
WALL BRACING NOTES AND DETAILS
DREAM FINDERS HOMES

DATE: NOVEMBER 28, 2022
SCALE: 1/4" = 1'-0"
DRAWN BY: JST
ENGINEERED BY: JST

D-2
BRACED WALL NOTES AND DETAILS AND PF DETAIL

GENERAL NOTES

- ENGINEER'S SEAL APPLIES ONLY TO STRUCTURAL COMPONENTS INCLUDING ROOF RAFTERS, HIPS, VALLEYS, RIDGES, FLOORS, WALLS, BEAMS, HEADERS, COLUMNS, CANTILEVERS, OFFSET LOAD BEARING WALLS, PIERS, GIRDER SYSTEM AND FOOTING. ENGINEER'S SEAL DOES NOT CERTIFY DIMENSIONAL ACCURACY OF ARCHITECTURAL LAYOUT INCLUDING ROOF. 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, PLUS 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 SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE CONSTRUCTION WORK. NOR WILL THE ENGINEER BE RESPONSIBLE FOR THE CONTRACTORS FAILURE TO CARRY OUT THE CONSTRUCTION WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- STRUCTURAL DESIGN BASED ON THE PROVISIONS OF THE NCRC, 2018 EDITION (R301.4 - R301.7)

DESIGN CRITERIA:	LIVE LOAD (PSF)	DEAD LOAD (PSF)	DEFLECTION (IN)
ATTIC WITH LIMITED STORAGE	20	10	L/240 (L/360 w/ BRITTLE FINISHES)
ATTIC WITHOUT STORAGE	10	10	L/360
DECKS	40	10	L/360
EXTERIOR BALCONIES	40	10	L/360
FIRE ESCAPES	40	10	L/360
HANDRAILS/GUARDRAILS	200	10	L/360
PASSENGER VEHICLE GARAGE	50	10	L/360
ROOMS OTHER THAN SLEEPING ROOM	40	10	L/360
SLEEPING ROOMS	30	10	L/360
STAIRS	40	10	L/360
WIND LOAD	(BASED ON TABLE R301.2(4) WIND ZONE AND EXPOSURE)		
GROUND SNOW LOAD: P _g	20 (PSF)		

- I-JOIST SYSTEMS DESIGNED WITH 12 PSF DEAD LOAD AND DEFLECTION (IN) OF L/480
 - FLOOR TRUSS SYSTEMS DESIGNED WITH 15 PSF DEAD LOAD
- FOR 115 AND 120 MPH WIND ZONES, FOUNDATION ANCHORAGE IS TO COMPLY WITH SECTION R403.1.6 OF THE NCRC, 2018 EDITION. FOR 130 MPH, 140 MPH, AND 150 MPH WIND ZONES, FOUNDATION ANCHORAGE IS TO COMPLY WITH SECTION 4504 OF THE NCRC, 2018 EDITION.
 - ENERGY EFFICIENCY COMPLIANCE AND INSULATION VALUES OF THE BUILDING TO BE IN ACCORDANCE WITH CHAPTER 11 OF THE NCRC, 2018 EDITION.

FOOTING AND FOUNDATION NOTES

- FOUNDATION DESIGN BASED ON A MINIMUM ALLOWABLE BEARING CAPACITY OF 2000 PSF. CONTACT GEOTECHNICAL ENGINEER IF BEARING CAPACITY IS NOT ACHIEVED.
- 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 COMPACTED TO ASSURE UNIFORM SUPPORT OF THE SLAB, AND EXCEPT WHERE APPROVED, THE FILL DEPTHS SHALL NOT EXCEED 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-DRAINED OR SAND-GRAVEL MIXTURE SOILS CLASSIFIED AS GROUP 1, ACCORDING TO THE UNITED SOIL CLASSIFICATION SYSTEM IN ACCORDANCE WITH TABLE R405.1 OF THE NCRC, 2018 EDITION.
- PROPERLY DEWATER EXCAVATION PRIOR TO POURING 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 REINFORCING STEEL TO BE ASTM A615 GRADE 60. WELDED WIRE FABRIC TO BE ASTM A185. MAINTAIN A MINIMUM CONCRETE COVER AROUND REINFORCING STEEL OF 3" IN FOOTINGS AND 1 1/2" IN SLABS. FOR POURED CONCRETE WALLS, CONCRETE COVER FOR REINFORCING STEEL MEASURED FROM THE INSIDE FACE OF THE WALL SHALL NOT BE LESS THAN 3/4". CONCRETE COVER FOR REINFORCING STEEL MEASURED FROM THE OUTSIDE FACE OF THE WALL SHALL NOT BE LESS THAN 1 1/2" FOR #6 BARS OR SMALLER, AND NOT LESS THAN 2" FOR #6 BARS OR LARGER.
- MASONRY UNITS TO 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 OR SOLID FILLED PIERS. 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 EACH OF THE PIERS SHALL BEAR IN THE MIDDLE THIRD OF ITS RESPECTIVE FOOTING. EACH GIRDER SHALL BEAR IN THE MIDDLE THIRD OF THE PIERS.
- ALL CONCRETE AND MASONRY FOUNDATION WALLS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE PROVISIONS OF SECTION R404 OF THE NCRC, 2018 EDITION OR IN ACCORDANCE WITH ACI 318, ACI 332, NCA TR68-A OR ACE 530/ASCE 5/TMS 402. 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 NCRC, 2018 EDITION. CONCRETE FOUNDATION WALLS ARE TO BE REINFORCED PER TABLE R404.1.1(5) OF THE NCRC, 2018 EDITION. STEP CONCRETE FOUNDATION WALLS TO 2 x 6 FRAMED WALLS AT 16" O.C. WHERE GRADE PERMITS (UNO).

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FRAMING NOTES

- ALL FRAMING LUMBER SHALL BE #2 SPF MINIMUM (F_b = 875 PSI, F_v = 375 PSI, E = 1600000 PSI) UNLESS NOTED OTHERWISE (UNO). ALL TREATED LUMBER SHALL BE #2 SYP MINIMUM (F_b = 975 PSI, F_v = 175 PSI, E = 1600000 PSI) UNLESS NOTED OTHERWISE (UNO).
- LAMINATED VENEER LUMBER (LVL) SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: F_b = 2600 PSI, F_v = 285 PSI, E = 1900000 PSI. LAMINATED STRAND LUMBER (LSL) SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: F_b = 2325 PSI, F_v = 310 PSI, E = 1550000 PSI. PARALLEL STRAND LUMBER (PSL) UP TO 7" DEPTH SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: F_c = 2500 PSI, E = 1800000 PSI. PARALLEL STRAND LUMBER (PSL) MORE THAN 7" DEPTH SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: F_c = 2900 PSI, E = 2000000 PSI. INSTALL ALL CONNECTIONS PER MANUFACTURER'S SPECIFICATIONS.
- STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING ASTM SPECIFICATIONS

A. W AND WT SHAPES:	ASTM A992
B. CHANNELS AND ANGLES:	ASTM A36
C. PLATES AND BARS:	ASTM A36
D. HOLLOW STRUCTURAL SECTIONS:	ASTM A500 GRADE B
E. STEEL PIPE:	ASTM A53, GRADE B, TYPE E OR S
- STEEL BEAMS SHALL BE SUPPORTED AT EACH END WITH A MINIMUM BEARING LENGTH OF 3 1/2" AND FULL FLANGE WIDTH (UNO). PROVIDE SOLID BEARING FROM BEAM SUPPORT TO FOUNDATION. BEAMS SHALL BE ATTACHED AT THE BOTTOM FLANGE TO EACH SUPPORT AS FOLLOWS (UNO):

A. WOOD FRAMING	(2) 1/2" DIA. x 4" LONG LAG SCREWS
B. CONCRETE	(2) 1/2" DIA. x 4" WEDGE ANCHORS
C. MASONRY (FULLY GROUTED)	(2) 1/2" DIA. x 4" LONG SIMPSON TITEN HD ANCHORS
D. STEEL PIPE COLUMN	(4) 3/4" DIA. A325 BOLTS OR 3/16" FILLET WELD

LATERAL SUPPORT IS CONSIDERED ADEQUATE PROVIDING THE JOISTS ARE TOE NAILED TO THE 2x NAILER ON TOP OF THE STEEL BEAM, AND THE 2x NAILER IS SECURED TO THE TOP OF THE STEEL BEAM w/ (2) ROWS OF SELF TAPPING SCREWS @ 16" O.C. OR (2) ROWS OF 1/2" DIAMETER BOLTS @ 16" O.C. IF 1/2" BOLTS ARE USED TO FASTEN THE NAILER, THE STEEL BEAM SHALL BE FABRICATED w/ (2) ROWS OF 9/16" DIAMETER HOLES @ 16" O.C.
- SQUARES DENOTE POINT LOADS WHICH REQUIRE SOLID BLOCKING TO GIRDER OR FOUNDATION. SHADED SQUARES DENOTE POINT LOADS FROM ABOVE WHICH REQUIRE SOLID BLOCKING TO SUPPORTING MEMBER BELOW.
- ALL LOAD BEARING HEADERS TO CONFORM TO TABLE R602.7(1) AND R602.7(2) OF THE NCRC, 2018 EDITION OR BE (2) 2 x 6 WITH (1) JACK AND (1) KING STUD EACH END (UNO), WHICHEVER IS GREATER ALL HEADERS TO BE SECURED TO EACH JACK STUD WITH (4) 8d NAILS. ALL BEAMS TO BE SUPPORTED WITH (2) STUDS AT EACH BEARING POINT (UNO). INSTALL KING STUDS PER SECTION R602.7.5 OF THE NORTH CAROLINA RESIDENTIAL CODE, 2018 EDITION.
- ALL BEAMS, HEADERS, OR GIRDER TRUSSES PARALLEL TO WALL ARE TO BEAR FULLY ON (1) JACK OR (2) STUDS MINIMUM OR THE NUMBER OF JACKS OR STUDS NOTED. ALL BEAMS OR GIRDER TRUSSES PERPENDICULAR TO WALL AND SUPPORTED BY (3) STUDS OR LESS ARE TO HAVE 1 1/2" MINIMUM BEARING (UNO). ALL BEAMS OR GIRDER TRUSSES PERPENDICULAR TO WALL AND SUPPORTED BY MORE THAN (3) STUDS OR OTHER NOTED COLUMN ARE TO BEAR FULLY ON SUPPORT COLUMN FOR ENTIRE WALL DEPTH (UNO). BEAM ENDS THAT BUTT INTO ONE ANOTHER ARE TO EACH BEAR EQUAL LENGTHS (UNO).
- FLITCH BEAMS SHALL BE BOLTED TOGETHER USING 1/2" DIAMETER BOLTS (ASTM A307) WITH WASHERS PLACED AT THREADED END OF BOLT. BOLTS SHALL BE SPACED AT 24" CENTERS (MAXIMUM), AND STAGGERED AT TOP AND BOTTOM OF BEAM (2" EDGE DISTANCE), WITH (2) BOLTS LOCATED AT 6" FROM EACH END (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 ACCORDING TO THE NORTH CAROLINA RESIDENTIAL CODE 2018 EDITION WALL BRACING CRITERIA. THE AMOUNT, LENGTH, AND LOCATION OF BRACING SHALL COMPLY WITH ALL APPLICABLE TABLES IN SECTION R602.10.
- PROVIDE DOUBLE JOIST UNDER ALL WALLS PARALLEL TO FLOOR JOISTS. PROVIDE SUPPORT UNDER ALL WALLS PARALLEL TO FLOOR TRUSSES OR I-JOISTS PER MANUFACTURER'S SPECIFICATIONS. INSTALL BLOCKING BETWEEN JOISTS OR TRUSSES FOR POINT LOAD SUPPORT FOR ALL POINT LOADS ALONG OFFSET LOAD LINES.
- FOR ALL HEADERS SUPPORTING BRICK VENEER THAT ARE LESS THAN 8'-0" IN LENGTH, REST A 6" x 4" x 5/16" STEEL ANGLE WITH 6" MINIMUM EMBEDMENT AT SIDES FOR BRICK SUPPORT (U.N.O.). FOR ALL HEADERS 8'-0" AND GREATER IN LENGTH, BOLT A 6" x 4" x 5/16" STEEL ANGLE TO HEADER WITH 1/2" LAG SCREWS AT 12" O.C. STAGGERED FOR BRICK SUPPORT. FOR ALL BRICK SUPPORT AT ROOF LINES, BOLT A 6" x 4" x 5/16" STEEL ANGLE TO (2) 2 x 10 BLOCKING INSTALLED w/ (4) 12d NAILS EA. PLY BETWEEN WALL STUDS WITH (2) ROWS OF 1/2" LAG SCREWS AT 12" O.C. STAGGERED AND IN ACCORDANCE WITH SECTION R703.8.2.1 OF THE NCRC, 2018 EDITION.
- FOR STICK FRAMED ROOFS: CIRCLES DENOTE (3) 2 x 4 POSTS FOR ROOF MEMBER SUPPORT. HIP SPLICES ARE TO BE SPACED A MINIMUM OF 8'-0". FASTEN MEMBERS WITH THREE ROWS OF 12d NAILS AT 16" O.C. FRAME DORMER WALLS ON TOP OF DOUBLE OR TRIPLE RAFTERS AS SHOWN (UNO).
- FOR TRUSSED ROOFS: FRAME DORMER WALLS ON TOP OF 2 x 4 LADDER FRAMING AT 24" O.C. BETWEEN ADJACENT ROOF TRUSSES. STICK FRAME OVER-FRAMED ROOF SECTIONS WITH 2 x 8 RIDGES, 2 x 6 RAFTERS AT 16" O.C. AND FLAT 2 x 10 VALLEYS (UNO).
- ALL 4 x 4 AND 6 x 6 POSTS TO BE INSTALLED WITH 700 LB CAPACITY UPLIFT CONNECTORS TOP AND BOTTOM (UNO). POSTS MAY BE SECURED USING ONE SIMPSON H6 OR L7S12 UPLIFT CONNECTOR FASTENED TO THE BAND AT THE BOTTOM AND THE BEAM AT THE TOP OF EACH POST. ONE 16" SECTION OF SIMPSON CS16 COIL STRAPPING WITH (8) 8d HDG NAILS AT EACH END MAY BE USED IN LIEU OF EACH TWIST STRAP IF DESIRED. FOR MASONRY OR CONCRETE FOUNDATION USE SIMPSON POST BASE.

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120 MPH - 130 MPH ULTIMATE DESIGN WIND SPEED
 STANDARD STRUCTURAL NOTES
 DREAM FINDERS HOMES

DATE: JUNE 17, 2022
 SCALE: NTS
 DRAWN BY: JST
 ENGINEERED BY: JST



12/22/2022

S-O
 STRUCTURAL
 NOTES