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HOMES

16"x8" CONC. FTG.

STRUCTURAL DESIGN BY: SOUTHERN ENGINEERS. P.A.

6'-4"

IIOB

SD

907B SD

@ 12" O.C.

SD

CONC. FTG.

----TRT'D BAND----AND FLASHING_--_PER-APPENDIX "M"

106D SD

4" SLAB ON

30"×30"×10" CONC. FTG.

> 4" CONC. SLAB (TABLE R4022) W/ FIBERMESH OR WIREMESH ON 6 MIL VAPOR RETARDER (AS REQUIRED)

ON BASE COURSE (R50622). SEE R5062.1 FOR FILL REQUIREMENTS.

> 30'X30'X10' CONC. FTG.

@ 12" O.C.

FOUNDATION PLAN

SCALE 1/4" = 1'-0"

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FOUNDATION VENTING

R408.1 Ventilation. The under-floor space between the bottom of the floor joists and the earth under any building (except space occupied by a basement or cellar) shall be provided with ventilation openings through foundation walls or exterior walls. The minimum net area of ventilation openings shall not be less than I square foot for each 150 square feet (0.67 m squared for each 100 m squared) of under-floor space area. One such ventilating opening shall be within 3 feet (914 mm) of each corner of said building.

1422/1500 = .948 NET FREE VENTING AREA REQUIRED

R408.2 Ground Vapor Retarder A minimum 6 mil. polyethlyne vapor retarder shall be installed to cover all earth in the crawl space with joints lapped not less than 12"

CRAWL AREA TO BE VENTED: 1422 SQ.FT.

SECTION R408 UNDER FLOOR SPACE

FOUNDATION STRUCTURAL NOTES: NC (2018 NCRC): Wind: 115-120 MPH (3) 2x10 SYP #2 OR SPF#2 GIRDER, TYPICAL UNO. $\langle 2 \rangle$ concrete block pier size shall be: SIZE HOLLOW MASONRY 8 x 16 UP TO 32" HIGH UP TO 5'-O" HIGH UP TO 9'-0" HIGH UP TO 12'-0" HIGH WITH 30" \times 30" \times 10" CONCRETE FOOTING, UNO. (3) WALL FOOTING AS FOLLOWS: DEPTH: 8" - UP TO 2-1/2 STORY 10" - 3 STORY WIDTH: SIDING (OR EQUAL) - 16" - UP TO 2-1/2 STORY - 20" - 3 STORY BRICK VENEER - 16" - 1 STORY - 20" - 2 STORY - 24" - 3 STORY FOR FOUNDATION WALL HEIGHT AND BACKFILL REQUIREMENTS, REFER TO NORTH CAROLINA RESIDENTIAL CODE TABLE R404.I.I (I THRU 4) NOTE: ASSUMED SOIL BEARING CAPACITY = 2000 PSF. CONTRACTOR MUST VERIFY SITE CONDITIONS AND CONTACT SOILS ENGINEER IF MARGINAL OR UNSTABLE SOILS ARE ENCOUNTERED. $\langle 4 \rangle$ (4) 2xIO SYP#2 OR SPF#2 GIRDER. (5) (2) 1.75X9.25 LVL OR LSL GIRDER (6) (3) 1.75X9.25 LVL OR LSL GIRDER

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LOAD TO HAVE SOLID BLOCKING TO PIER, SOLID BLOCK ALL BEAM BEARING POINTS NOTED TO HAVE THREE OR MORE STUDS TO FND, TYPICAL.

8. ABBREVIATIONS:
"SJ" = SINGLE JOIST
"DJ" = DOUBLE JOIST

"TJ" = TRIPLE JOIST

7. " DESIGNATES A SIGNIFICANT POINT

THIS PLAN HAS BEEN DRAWN IN ACCORDANCE WITH NORTH CAROLINA STATE RESIDENTIAL BUILDING CODES 2018 EDITION.

This plan is to be built by the homeowner construction of builder as cited in this title block only. Not released for multiple builds.

This plan is to or builder as ci

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DATE:

LICENSE: C-4112, PHONE: 919-818-1611 PROJECT #: 22-1608 * Engineers seal applies only to structural components on this document. Seal does not Any deviations or discrepancies on plans are to be brought to the immediate attention of Southern Engineers. Failure to do so will void Southern Engineer's liability * Seal is valid for a project permitted one year from date of seal. * Use of these plans constitutes approval of terms \$

STRUCTURAL DESIGN BY: SOUTHERN ENGINEERS, P.A. 3716 BENSON DR., RALEIGH, NC 27609

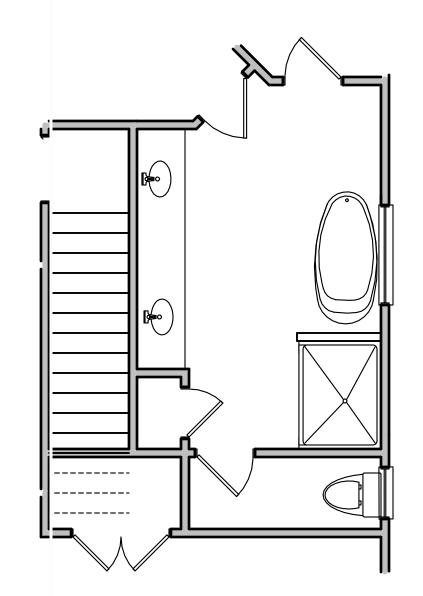
include construction means, methods, techniques,

conditions as defined in the customer agreement.

REFER TO "SD" SHEET(S) FOR STANDARD DETAILS, BRACING DETAILS, AND STRUCTURAL NOTES

sequences, procedures or safety precautions.

HEADER/BEAM € COLUMN NOTES I. ALL EXTERIOR AND LOAD BEARING HEADERS SHALL BE MIN. (2) 2×10 (4" WALL) OR (3) 2×10 (6" WALL) WITH (1) SUPPORT STUD, UNLESS NOTED OTHERWISE. 2. THE NUMBER SHOWN AT BEAM AND HEADER SUPPORTS INDICATES THE NUMBER OF SUPPORT STUDS REQUIRED IN STUD POCKET OR COLUMN. THE NUMBER OF KING STUDS AT EACH END OF HEADERS IN EXTERIOR WALLS SHALL BE ACCORDING TO ITEM "d" IN TABLE R602.3(5) OR AS BELOW: UP TO 4' SPAN: (I) KING STUD
OVER 4' UP TO 8' SPAN: (2) KING STUDS
OVER 8' UP TO II' SPAN: (3) KINGS STUDS
OVER II' SPAN: (4) KING STUDS



OPTIONAL BATH

FRAMING NOTES: NC (2018 NCRC): Wind: 115-120 mph

I. BRACING METHOD AND TYPE: CONTINUOUSLY SHEATHED WSP: CS-WSP. NOTE THAT THE WALL BRACING AMOUNT PROVIDED ON THE PLANS (DETAILS AND SPECIFICATIONS) IS GREATER THAN THE AMOUNT OF WALL BRACING REQUIRED BY THE CODE, SEE NOTES BELOW FOR DETAILS AND SPECIFICATIONS FOR WALL BRACING AND WALL EPAMING. 2. EXTERIOR WALL SHEATHING: WALLS SHALL BE BRACED BY SHEATHING WALLS ON ALL STORIES WITH WOOD STRUCTURAL PANEL SHEATHING (WSP) (EXPOSURE B: 1/16". EXPOSURE C: 15/32"). SHEATHING SHALL BE ATTACHED WITH 8d NAILS AT A 6"/12" NAILING PATTERN (6" O.C AT PANEL EDGES AND 12" OC AT INTERMEDIATE SUPPORTS). INSTALL BLOCKING AT ALL PANEL EDGES.

3. WSP SHEATHING SHALL EXTEND TO THE UPPERMOST DOUBLE BEARING PLATE. BLOCK AT ROOF AND ATTACH BRACED WALLS PER CODE. WSP SHEATHING BETWEEN FLOORS SHALL BE SPLICED ACROSS STUDS (CONTINUOUS ACROSS FLOOR SYSTEM) WITH BLOCKING AT PANEL EDGES. MINIMUM 12" BEYOND FLOOR BREAK) OR OTHER APPROVED METHOD.

4. "HD" = HOLDOWN: HOLD-DOWN DEVICE (NOTED AS "HD" ON PLANS) SHALL BE AN 800 POUND CAPACITY ASSEMBLY AS NOTED ON PLANS. SEE DETAILS FOR HD ASSEMBLY. ASSEMBLY.

**GROUND/FIRST FLOOR: USE "HD HOLD-DOWN DETAIL" ON
SD SHEET (OR EQUIV).

**UPPER FLOORS: ATTACH BASE OF KING STUD WITH A
SIMPSON CS22 STRAP DOWN ACROSS THE BAND AND
DOWN TO A STUD BELOW OR HEADER BELOW. EXTEND
STRAP 1" MIN ALONG EACH STUD (OR HEADER) AND
ATTACH EACH END W/ (1) 8d NAILS. 5. INTERIOR BRACED WALL: (NOTED AS "IBW" ON PLANS) ATTACH I/2" GYPSUM BOARD (GB) ON EACH SIDE OF WALL WITH A MIN. OF 5d COOLER NAILS OR #6 SCREWS © 1" O.C. ALONG THE EDGES AND AT INTERMEDIATE SUPPORTS. 6. INTERIOR BRACED WALL-WOOD STRUCTURAL PANEL:
(NOTED AS "IBW-WSP" ON PLANS). ATTACH ONE SIDE WITH
1/16" WSP SHEATHING WITH 8d NAILS AT A 6"/12" NAILING
PATTERN (6" OC AT PANEL EDGES AND 12" OC AT
INTERMEDIATE SUPPORTS). INSTALL BLOCKING AT ALL
PANEL EDGES. ATTACH GB OVER WSP REQUIRED. ATTACH
OPPOSITE SIDE WITH 1/2" GB WITH A MIN. OF 5d COOLER
NAILS OR #6 SCREWS ® 1" OC ALONG THE EDGES AND AT
INTERMEDIATE SUPPORTS.

FIRST FLOOR STRUCTURAL PLAN

23'-0"

SQUARE FOOTAGE

FIRST FLOOR 2029 SQ.FT

OPTIONAL PLYROOM = 473 SQ.FT. TOTAL W/PLAYROOM = 2344 SQ.FT

FRONT PORCH = 210 SQ.FT.

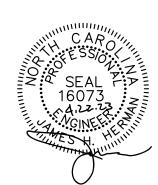
REAR PORCH = 150 SQ.FT. DECK = 108 SQ.FT.

GARAGE = 557 SQ.FT.

4X4 TRT'D POST (OR EQUIV.) (TYP.) ATTACH RAFTERS @ PORCH - W/HURRICANE CONNECTORS (SIMPSON H2.5 OR EQUIV.) ATTACH HDR TO POST AND POST TO BASE W/A POST CAP OR METAL STRAP(S) OR BRACKET(S), AND/OR A POST BASE. (2)2XIO HDR (TYP.) $(2) 2 \times 12$ TRAY OPTIONAL 12" STEP LUS210-2 (TYP.)-2X8 CJ @ 16" O.C. BOX DOWN TRAY (3) 1.75×11.875 LVL ----HHUS410-(2) 2×10 RAFTER BEARING ABOVE -LUS21Ø-2 (2) 1.75×11.875 LVL |||V-(2) 2×10 (2) 2×1Ø—_/||| (3) 1.75×20 LVL BOTTOM FLUSH (2) 1.75×9.25 LVL \rightarrow 2) 2×10 -√ (2) 1.75×9.25 LVL (3) 2×10 =:=:=:=:=:=:=:=:=:=:=(/////(/// (3) 2×10 (5) STUD BRG TO HEADER OR SET BEAM DIRECTLY ON TOP OF HEADER FRAME RAFTERS ON A 2XIO FLAT. (3) 1.75×18 LVL PLATE ON TOP OF CEILING JOISTS dsp 🕁 DSP TOP FLUSH IO"XIO" BOXED COLUMN -4×4 TRT'D POST (OR EQUIV.) (TYP.) ATTACH RAFTERS @ PORCH W/HURRICANE CONNECTORS (SIMPSON "H2.5 OR EQUIV.) ATTACH HDR TO POST 11'-6" 11'-6" AND POST TO BASE W/A POST CAP OR

METAL STRAP(S) OR BRACKET(S), AND/OR A POST BASE.

SCALE 1/4" = 1'-0"

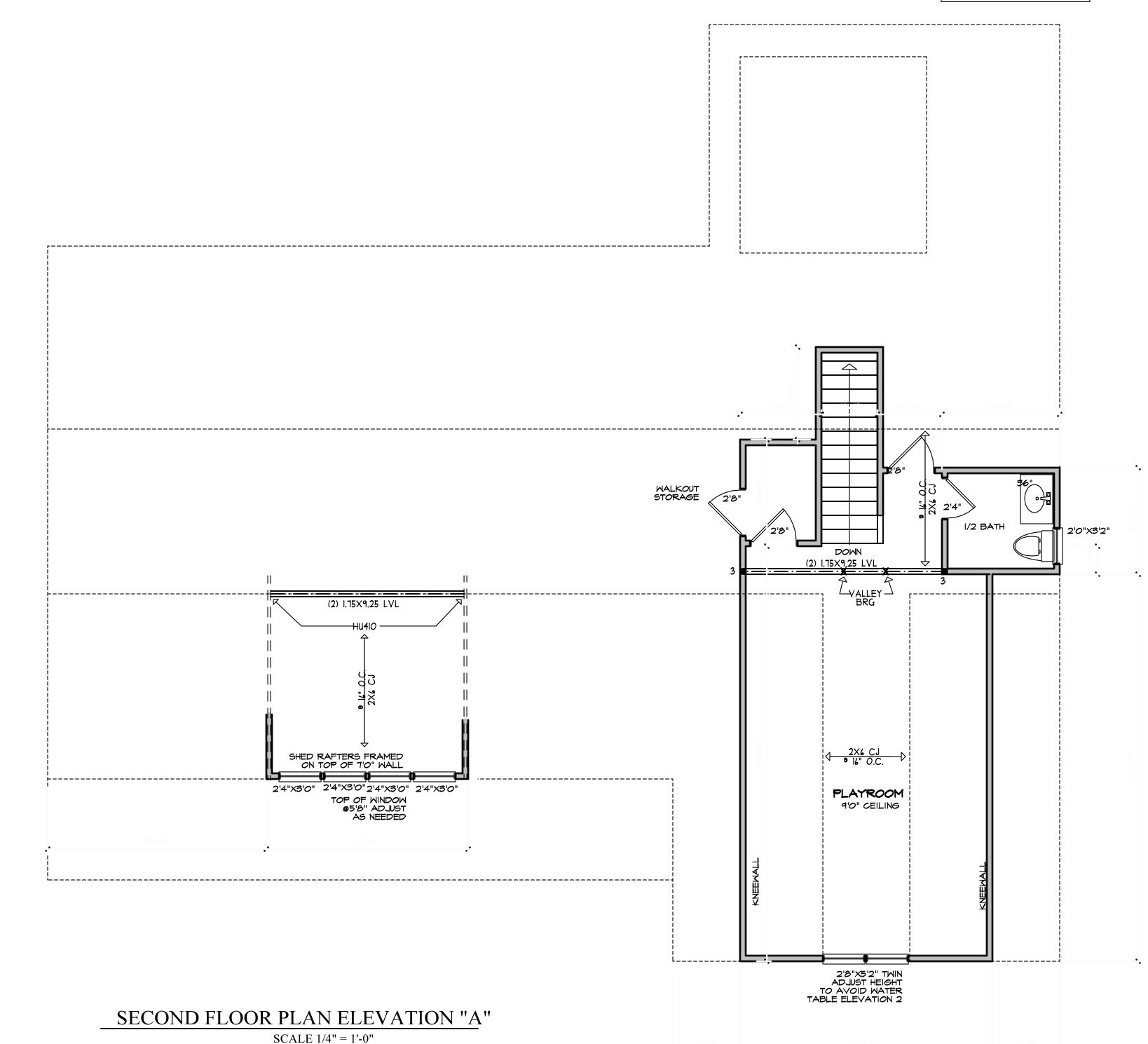


STRUCTURAL DESIGN BY: SOUTHERN ENGINEERS, P.A. 3716 BENSON DR., RALEIGH, NC 27609 LICENSE: C-4772, PHONE: 919-878-1617 PROJECT #: 22-1608 * Engineers seal applies only to structural

components on this document. Seal does not include construction means, methods, techniques, sequences, procedures or safety precautions. * Any deviations or discrepancies on plans are to be brought to the immediate attention of Southern Engineers. Failure to do so will void Southern Engineer's liability Seal is valid for a project permitted one year from date of seal.

* Use of these plans constitutes approval of terms \$ conditions as defined in the customer agreement.

REFER TO "SD" SHEET(S) FOR STANDARD DETAILS, BRACING DETAILS, AND STRUCTURAL NOTES



I. ALL EXTERIOR AND LOAD BEARING HEADERS SHALL BE MIN. (2) 2x10 (4" WALL) OR (3) 2x10 (6" WALL) WITH (I) SUPPORT STUD, UNLESS NOTED OTHERWISE. 2. THE NUMBER SHOWN AT BEAM AND HEADER SUPPORTS INDICATES THE NUMBER OF SUPPORTS STUDS

HEADER/BEAM & COLUMN NOTES

REQUIRED IN STUD POCKET OR COLUMN. THE NUMBER OF KING STUDS AT EACH END OF HEADERS IN EXTERIOR WALLS SHALL BE ACCORDING TO ITEM "d" IN TABLE R602.3(5) OR AS BELOW:

- UP TO 4' SPAN: (1) KING STUD - OVER 4' UP TO 8' SPAN: (2) KING STUDS - OVER 8' UP TO 11' SPAN: (3) KINGS STUDS - OVER II' SPAN: (4) KING STUDS

FRAMING NOTES: NC (2018 NCRC): Wind: 115-120 mph

I. BRACING METHOD AND TYPE: CONTINUOUSLY SHEATHED MSP: CS-MSP. NOTE THAT THE WALL BRACING AMOUNT PROVIDED ON THE PLANS (DETAILS AND SPECIFICATIONS) IS GREATER THAN THE AMOUNT OF WALL BRACING REQUIRED BY THE CODE. SEE NOTES BELOW FOR DETAILS AND SPECIFICATIONS FOR WALL BRACING AND WALL

2. EXTERIOR WALL SHEATHING: WALLS SHALL BE BRACED BY SHEATHING WALLS ON ALL STORIES WITH WOOD STRUCTURAL PANEL SHEATHING (MSP) (EXPOSURE B: 1/16". EXPOSURE C: 15/32"). SHEATHING SHALL BE ATTACHED WITH 8d NAILS AT A 6"/12" NAILING PATTERN (6" O.C AT PANEL EDGES AND 12" OC AT INTERMEDIATE SUPPORTS). INSTALL BLOCKING AT ALL PANEL EDGES.

3. MSP SHEATHING SHALL EXTEND TO THE UPPERMOST DOUBLE BEARING PLATE. BLOCK AT ROOF AND ATTACH BRACED WALLS PER CODE. MSP SHEATHING BETWEEN FLOORS SHALL BE SPLICED ACROSS STUDS (CONTINUOUS ACROSS FLOOR SYSTEM) WITH BLOCKING AT PANEL EDGES, MINIMUM 12" BEYOND FLOOR BREAK) OR OTHER APPROVED, METHOR APPROVED METHOD.

4. "HD" = HOLDOWN : HOLD-DOWN DEVICE (NOTED AS "HD" ON PLANS) SHALL BE AN 800 POUND CAPACITY ASSEMBLY AS NOTED ON PLANS. SEE DETAILS FOR HD ASSEMBLY.

**GROUND/FIRST FLOOR: USE "HD HOLD-DOWN DETAIL" ON
SD SHEET (OR EQUIV).

**UPPER FLOORS: ATTACH BASE OF KING STUD WITH A
SIMPSON C522 STRAP DOWN ACROSS THE BAND AND
DOWN TO A STUD BELOW OR HEADER BELOW. EXTEND
STRAP 7" MIN ALONG EACH STUD (OR HEADER) AND
ATTACH EACH END W/(1) 8d NAILS.

5. INTERIOR BRACED WALL: (NOTED AS "IBW" ON PLANS)
ATTACH 1/2" GYPSUM BOARD (GB) ON EACH SIDE OF WALL
WITH A MIN. OF 5d COOLER NAILS OR #6 SCREWS @ 7" O.C.
ALONG THE EDGES AND AT INTERMEDIATE SUPPORTS.

6. INTERIOR BRACED WALL-WOOD STRUCTURAL PANEL: (NOTED AS "IBW-WSP" ON PLANS). ATTACH ONE SIDE WITH 7/16" WSP SHEATHING WITH & NAILS AT A 6"/12" NAILING PATTERN (6" OC AT PANEL EDGES AND 12" OC AT INTERN (6" OC AT PANEL EDGES AND 12" OC AT INTERMEDIATE SUPPORTS). INSTALL BLOCKING AT ALL PANEL EDGES, ATTACH OB OVER WSP REQUIRED. ATTACH OPPOSITE SIDE WITH 1/2" OB WITH A MIN. OF 5d COOLER NAILS OR #6 SCREWS • 7" OC ALONG THE EDGES AND AT INTERMEDIATE SUPPORTS.

STRUCTURAL DESIGN BY: SOUTHERN ENGINEERS, P.A. 3716 BENSON DR., RALEIGH, NC 27609 LICENSE: C-4712, PHONE: 919-878-1617

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to do so will void Southern Engineer's liability

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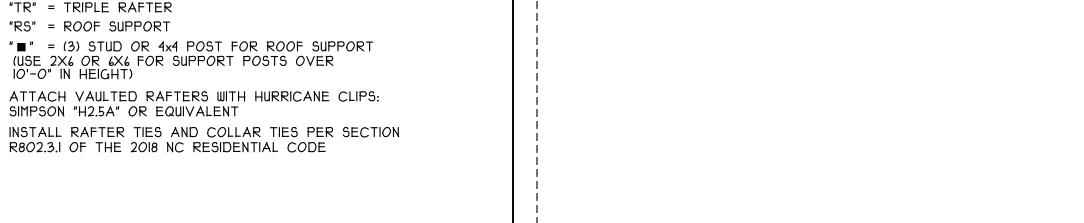
REFER TO "SD" SHEET(S) FOR STANDARD DETAILS, BRACING DETAILS, AND STRUCTURAL NOTES

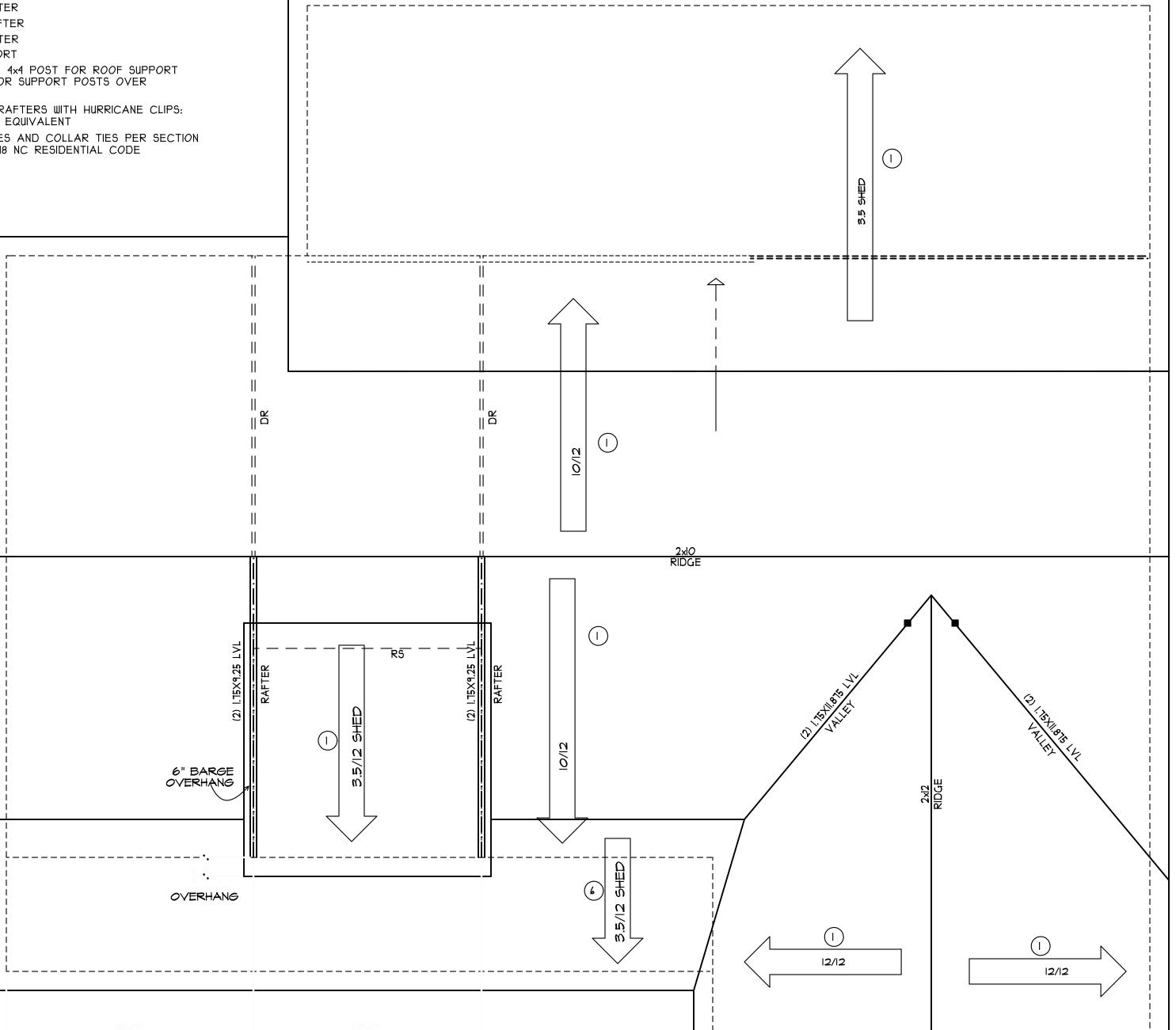
conditions as defined in the customer agreement.

PROJECT #: 22-1608

ROOF FRAMING NOTES: NC (2018 NCRC): Wind: 115-120 MPH

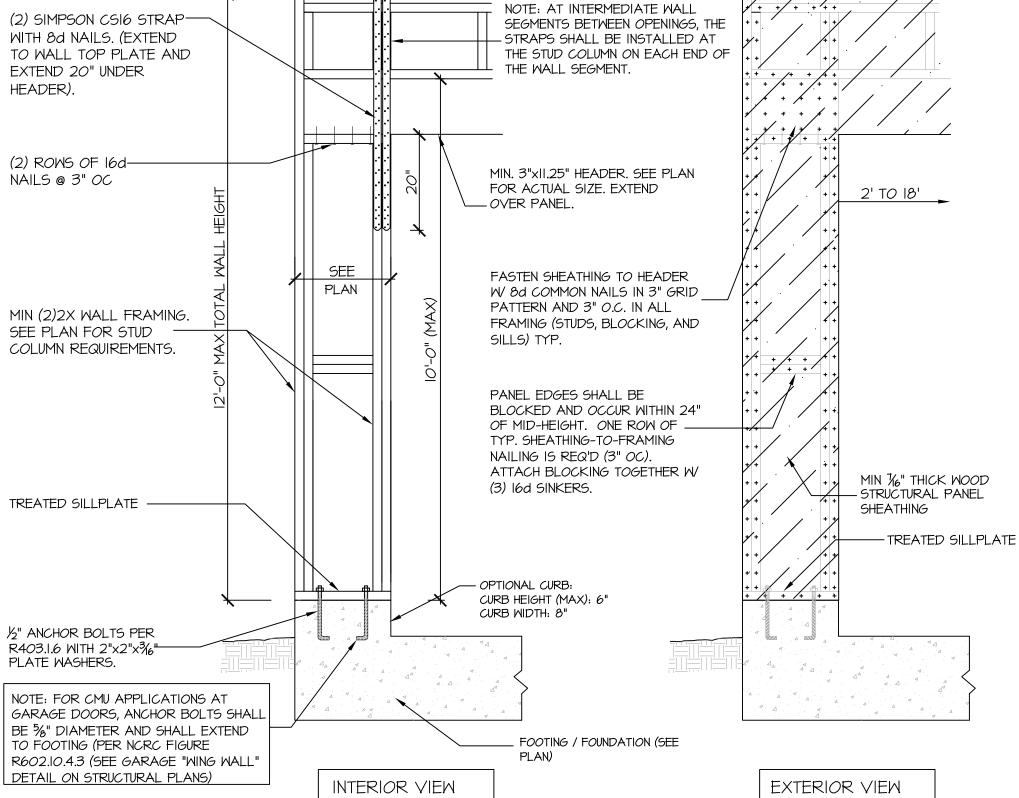
- 1) 2x8 RAFTERS 9 16" O.C. WITH 2x10 RIDGE, UNO.
- (2) 2xIO OR 1.75xII.875 LVL HIP. (2) 2xIO HIPS MAY BE SPLICED WITH A MIN. 6'-O" OVERLAP AT CENTER
- (3) (2) 2xIO OR 1.75x9.25 LVL VALLEY. DO NOT SPLICE VALLEYS
- (4) 1.75x11.875 LVL VALLEY
- (5) FALSE FRAME VALLEY ON 2×10 FLAT PLATE
- (6) 2x6 RAFTERS @ 16" O.C. W/ 2x8 RIDGE, UNO.
- (7) 2xIO RAFTERS @ I6" O.C. W/ 2xI2 RIDGE, UNO.
- (8) EXTEND RIDGE 12" BEYOND INTERSECTION
- "SR" = SINGLE RAFTER
- "DR" = DOUBLE RAFTER
- "TR" = TRIPLE RAFTER - "RS" = ROOF SUPPORT
- "■" = (3) STUD OR 4x4 POST FOR ROOF SUPPORT
- ATTACH VAULTED RAFTERS WITH HURRICANE CLIPS: SIMPSON "H2.5A" OR EQUIVALENT
- INSTALL RAFTER TIES AND COLLAR TIES PER SECTION



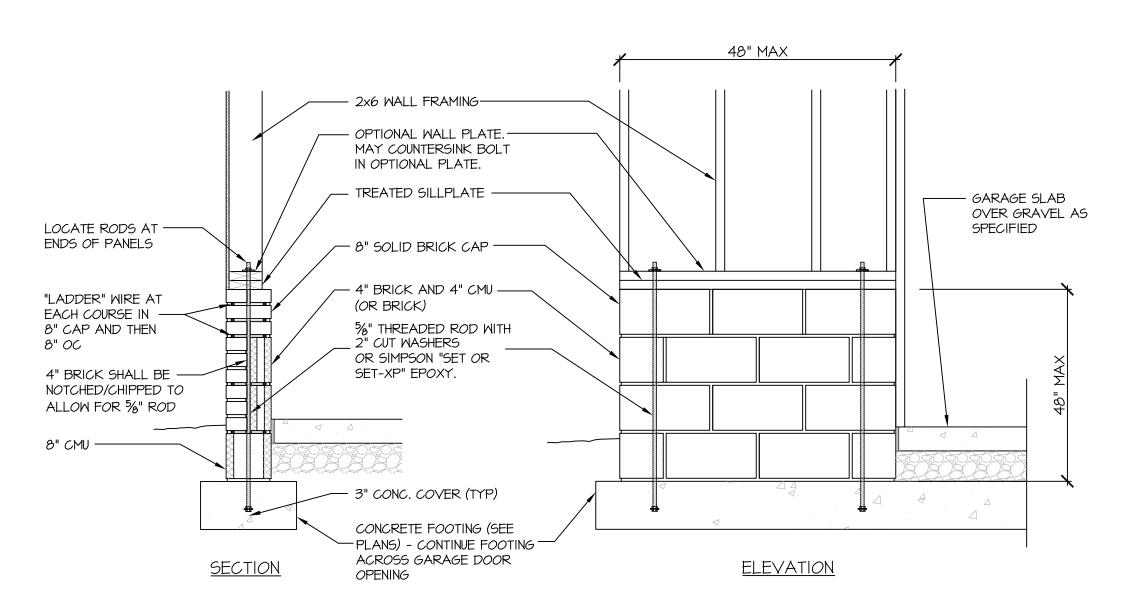


ROOF PLAN "A"

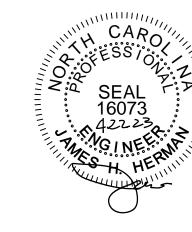
SCALE 1/4" = 1'-0"



(905B\CS-PF: CONTINUOUS PORTAL FRAME CONSTRUCTION SD / DETAIL AND APPLICATION BASED ON NORG FIGURE R602.10.1 - PORTAL FRAME CONSTRUCTION



GARAGE 'WING WALL' REINFORCING PER IRC FIGURE R602.10.4.3



STRUCTURAL NOTES

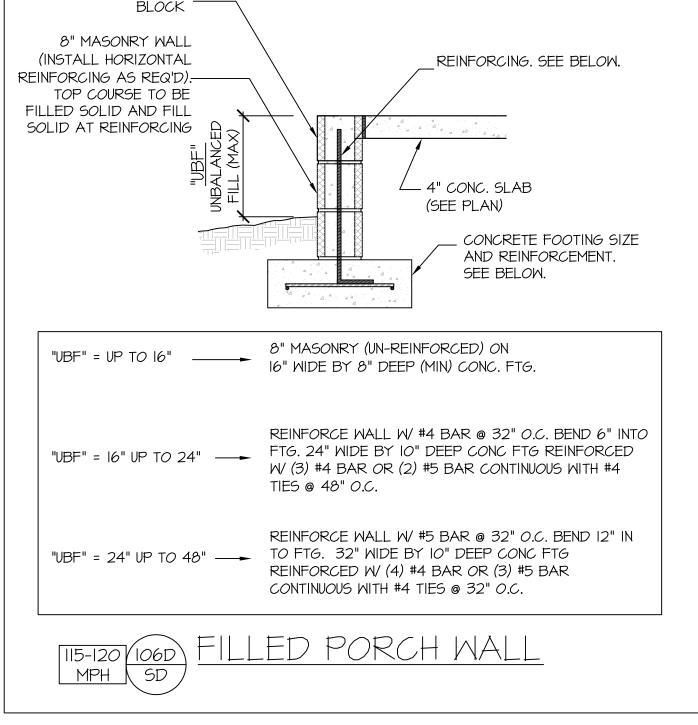
NC (2018 NCRC): Wind: 115-120 mph

- ENGINEER'S SEAL APPLIES ONLY TO STRUCTURAL COMPONENTS INCLUDING ROOF RAFTERS, HIPS, VALLEYS, RIDGES, FLOORS, WALLS, BEAMS AND HEADERS, COLUMNS, CANTILEVERS, OFFSET LOAD BEARING WALLS, PIER & GIRDER SYSTEM, FOOTING, AND PILING SYSTEM. ENGINEER'S SEAL DOES NOT CERTIFY DIMENSIONAL ACCURACY OR ARCHITECTURAL LAYOUT INCLUDING ROOF SYSTEM. ALL REQUIREMENTS FOR PROFESSIONAL CERTIFICATION SHALL BE PROVIDED BY THE APPROPRIATE PROFESSIONAL. SOUTHERN ENGINEERS, P.A. CERTIFIES ONLY THE STRUCTURAL COMPONENTS AS SPECIFICALLY STATED.
- 2. ALL CONSTRUCTION SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE 2018 NC RESIDENTIAL CODE, 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 FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE CONSTRUCTION WORK, NOR WILL THE ENGINEER BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CARRY OUT THE CONSTRUCTION WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. "CONSTRUCTION REVIEW" SERVICES ARE NOT PART OF OUR CONTRACT ALL MEMBERS SHALL BE FRAMED ANCHORED, TIED AND BRACED IN ACCORDANCE WITH GOOD CONSTRUCTION PRACTICE AND THE BUILDING CODE.
- 3. DESIGN LOADS (LISTED AS: LIVE LOAD, DEAD LOAD, DEFLECTION)
- ROOMS OTHER THAN SLEEPING ROOMS: (40 PSF, IO PSF, L/360)
- SLEEPING ROOMS: (30 PSF, 10 PSF, L/360)
- ATTIC WITH PERMANENT STAIR: (40 PSF, IO PSF, L/360) ATTIC WITHOUT PERMANENT STAIR: (20 PSF, IO PSF, L/360)
- ATTIC WITHOUT STORAGE: (IO PSF, IO PSF, L/240)
- STAIRS: (40 PSF, 10 PSF, L/360)
- EXTERIOR BALCONIES: (60 PSF, IO PSF, L/360)
- DECKS: (40 PSF, IO PSF, L/360)
- GUARDRAILS AND HANDRAILS: (200 LBS) PASSSENGER VEHICLE GARAGES: (50 PSF, 10 PSF, L/360)
- FIRE ESCAPES: (40 PSF, I0 PSF, L/360)
- SNOW: (20 PSF)
- 4. WALLS SHALL BE BRACED BY SHEATHING WALLS ON ALL STORIES WITH WOOD STRUCTURAL PANELS. SEE FRAMING NOTES FOR THICKNESS AND NAILING REQUIREMENTS.
- 5. SEE APPENDIX M (DCA6) FOR EXTERIOR DECK REQUIREMENTS INCLUDING ATTACHMENTS FOR LATERAL LOADS.
- 6. CONCRETE SHALL HAVE A MINIMUM 28 DAY STRENGTH OF 3000 PSI AND A MAXIMUM SLUMP OF 5 INCHES UNLESS NOTED OTHERWISE (UNO). AIR ENTRAINED PER TABLE 402.2. ALL CONCRETE SHALL BE PROPORTIONED, MIXED, HANDLED, SAMPLED, TESTED, AND PLACED IN ACCORDANCE WITH ACI STANDARDS. ALL SAMPLES FOR PUMPING SHALL BE TAKEN FROM THE EXIT END OF THE PUMP. CONTROL JOINTS IN SLABS SHALL BE SPACED ON A GRID OF +-30 TIMES THE DEPTH (D). CONTROL JOINTS SHALL BE SAWCUT TO A DEPTH OF I/D. (I.E. 4" CONCRETE SLABS SHALL HAVE L' DEEP CONTROL JOINTS SAWCUT IN SLAB ON A +-10'-0" x +-10'-0" GRID).
- 7. ALLOWABLE SOIL BEARING PRESSURE ASSUMED TO BE 2000 PSF. THE CONTRACTOR MUST CONTACT A GEOTECHNICAL ENGINEER AND THE STRUCTURAL ENGINEER IF UNSATISFACTORY SUBSURFACE CONDITIONS ARE ENCOUNTERED. THE SURFACE AREA ADJACENT TO THE FOUNDATION WALL SHALL BE PROVIDED WITH ADEQUATE DRAINAGE, AND SHALL BE GRADED SO AS TO DRAIN SURFACE WATER AWAY FROM FOUNDATION WALLS.
- 8. ALL FRAMING LUMBER SHALL BE SPF #2 (Fb = 875 PSI) UNLESS NOTED OTHERWISE (UNO). ALL TREATED LUMBER SHALL BE SYP # 2. PLATE MATERIAL MAY BE SPF # 3 OR SYP #3 (Fc(perp) = 425 PSI - MIN).
- 9. L.V.L. SHALL BE LAMINATED VENEER LUMBER: Fb=2600 PSI, Fv=285 PSI, E=1.9xI0 PSI. 9.1. P.S.L. SHALL BE PARALLEL STRAND LUMBER: Fb=2900 PSI, Fv=290 PSI, E=2.0x10 PSI. 9.2. L.S.L. SHALL BE LAMINATED STRAND LUMBER: Fb=2250 PSI, Fv=400 PSI, E=1.55xI0 PSI. INSTALL ALL CONNECTIONS PER MANUFACTURERS INSTRUCTIONS.
- 10. ALL ROOF TRUSS AND 1-JOIST LAYOUTS SHALL BE PREPARED IN ACCORDANCE WITH THE SEALED STRUCTURAL DRAWINGS. TRUSSES AND I-JOISTS SHALL BE INSTALLED ACCORDING TO THE MANUFACTURE'S SPECIFICATIONS. ANY CHANGE IN TRUSS OR I-JOIST LAYOUT SHALL BE COORDINATED WITH SOUTHERN ENGINEERS.
- II. ALL STRUCTURAL STEEL SHALL BE ASTM A-36. STEEL BEAMS SHALL BE SUPPORTED AT EACH END WITH A MINIMUM BEARING LENGTH OF 3 1/2" INCHES AND FULL FLANGE WIDTH. PROVIDE SOLID BEARING FROM BEAM SUPPORT TO FOUNDATION. BEAMS SHALL BE ATTACHED TO EACH SUPPORT WITH TWO LAG SCREWS (1/2" DIAMETER x 4" LONG). LATERAL SUPPORT IS CONSIDERED ADEQUATE PROVIDING THE JOIST ARE TOE NAILED TO THE SOLE PLATE, AND SOLE PLATE IS NAILED OR BOLTED TO THE BEAM FLANGE @ 48" O.C. ALL STEEL TUBING SHALL BE ASTM A500.
- 12. REBAR SHALL BE DEFORMED STEEL, ASTM615, GRADE 60. LAP ALL REBAR SPLICES 30 BAR DIAMETERS.
- 13. FLITCH BEAMS SHALL BE BOLTED TOGETHER USING (2) ROWS OF 1/2" DIAMETER BOLTS (ASTM A325) WITH WASHERS PLACED UNDER THE THREADED END OF BOLT. BOLTS SHALL BE SPACED AT 24" O.C. (MAX), AND STAGGERED AT THE TOP AND BOTTOM OF BEAM (2" EDGE DISTANCE), WITH 2 BOLTS LOCATED AT 6" FROM EACH END.
- 14. BRICK LINTELS (WHEN REQUIRED) SHALL BE 3 1/2"x3 1/2"x1/4" STEEL ANGLE FOR UP TO 6'-0" SPAN AND 6"x4"x5/16" STEEL ANGLE WITH 6" LEG VERTICAL FOR SPANS UP TO 9'-O". SEE PLANS FOR SPANS OVER 9'-0". SEE ALSO SECTION R703.8.3 LINTELS.

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PROJECT #

22-1608A



OPTIONAL HEADER

