

150 MPH ULTIMATE DESIGN WIND SPEED NOTES FOR LESS THAN 30' MEAN ROOF HEIGHT:

ENGINEER'S SEAL APPLIES ONLY TO

STRUCTURAL COMPONENTS, ENGINEER'S
SEAL DOES NOT CERTIFY DIMENSIONAL
ACCURACY OR ARCHITECTURAL LAYOUT
INCLUDING ROOF SYSTEM.
2. STRUCTURAL DESIGN PER NORTH
CAROLINA RESIDENTIAL CODE, 2018
EDITION WITH SPECIAL CONSIDERATION T

- EDITION WITH SPECIAL CONSIDERATION TO CHAPTER 45 ("HIGH WIND ZONES" FOR 150 MPH WINDS).

 3. BUILDER IS TO PROVIDE FRAMING.
 CONNECTIONS AS REQUIRED BY CHAPTER 45 ("HIGH WIND ZONES" FOR 150 MPH WINDS) OF THE NORTH CAROLINA
- RESIDENTIAL CODE, 2018 EDITION.
 4. FOUNDATION ANCHORAGE TO COMPLY WITH SECTION 4504 OF THE NORTH CAROLINA RESIDENTIAL CODE, 2018 EDITION.
 5. MEAN ROOF HEIGHT 15 LESS THAN 30 FEET.
 6. WALL CLADDING DESIGNED FOR +24.3 PSF
- AND -32 PSF (+/- INDICATE POSITIVE / NEGATIVE PRESSURE (TYP).

 1. ROOF CLADDING DESIGNED FOR +22.2 PSF AND -28 PSF FOR ROOF PITCHES 1/12 TO 12/12 AND +14 PSF AND -51 PSF FOR ROOF PITCHED 2.25/12 TO 1/12.
- 8. 1/16" OSB SHEATHING IS REQUIRED ON ALL EXTERIOR WALLS.

 9. WALLS TO BE BRACED IN ACCORDANCE WITH SECTION REØ2.10 OF THE NORTH CAROLINA REGIDENTIAL CODE, 2018 EDITION AND AS NOTED ON PLANS.

 10. ENERGY EFFICIENCY COMPLIANCE AND INSULATION VALUES OF THE BUILDING TO BE IN ACCORDANCE WITH CHAPTER II OF THE NCRC, 2018 EDITION.

120 MPH ULTIMATE DESIGN WIND SPEED NOTES FOR LESS THAN 30' MEAN ROOF HEIGHT:

I. ENGINEER'S SEAL APPLIES ONLY TO STRUCTURAL COMPONENTS. ENGINEER'S SEAL DOES NOT CERTIFY DIMENSIONAL ACCURACY OR ARCHITECTURAL LAYOUT

- INCLUDING ROOF SYSTEM.

 2. STRUCTURAL DESIGN PER NORTH CAROLINA RESIDENTIAL CODE, 2018 EDITION.

 3. INSTALL 1/2" ANCHOR BOLTS 6'-0" O.C. AND WITHIN 1'-0" FROM END OF EACH CORNER ANCHOR BOLTS MUST EXTEND A MINIMUM OF
- 1" INTO MASONRY OR CONCRETE. LOCATE
 BOLT WITHIN MIDDLE THIRD OF PLATE WIDTH.
 4. MEAN ROOF HEIGHT IS LESS THAN 30 FEET.
 5. EXTERIOR WALLS DESIGNED FOR 120 MPH WINDS.
- 6. WALL CLADDING DESIGNED FOR +15.5 PSF
 AND -20 PSF (+/- INDICATE POSITIVE /
 NEGATIVE PRESSURE (TYP).

 7. ROOF CLADDING DESIGNED FOR +14.2 PSF
 AND -18 PSF FOR ROOF PITCHES 1/12 TO 12/12

AND +10 PSF AND -36 PSF FOR ROOF

- PITCHED 2.25/12 TO 1/12.

 8. INSTALL 1/16" OSB SHEATHING ON ALL EXTERIOR WALLS OF ALL STORIES IN ACCORDANCE WITH SECTION R602.10.3 OF THE NCRC, 2018 EDITION. SEE THE WALL BRACING NOTES AND DETAILS SHEET FOR MORE INFORMATION.
- MORE INFORMATION.

 3. ENERGY EFFICIENCY COMPLIANCE AND INSULATION VALUES OF THE BUILDING TO BE IN ACCORDANCE WITH CHAPTER II OF THE NCRC, 2018 EDITION.
- 10. REFER TO NOTES AND DETAIL SHEETS FOR ADDITIONAL STRUCTURAL INFORMATION.

DATE: MARCH 30, 2021

DRAWN BY: TT

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

ENGINEERED BY: JAG

SHEET: 2 OF: 15

S-1b

MONO SLAB
FOUNDATION PLAN

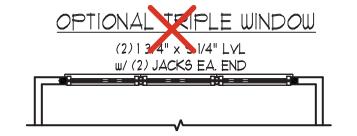
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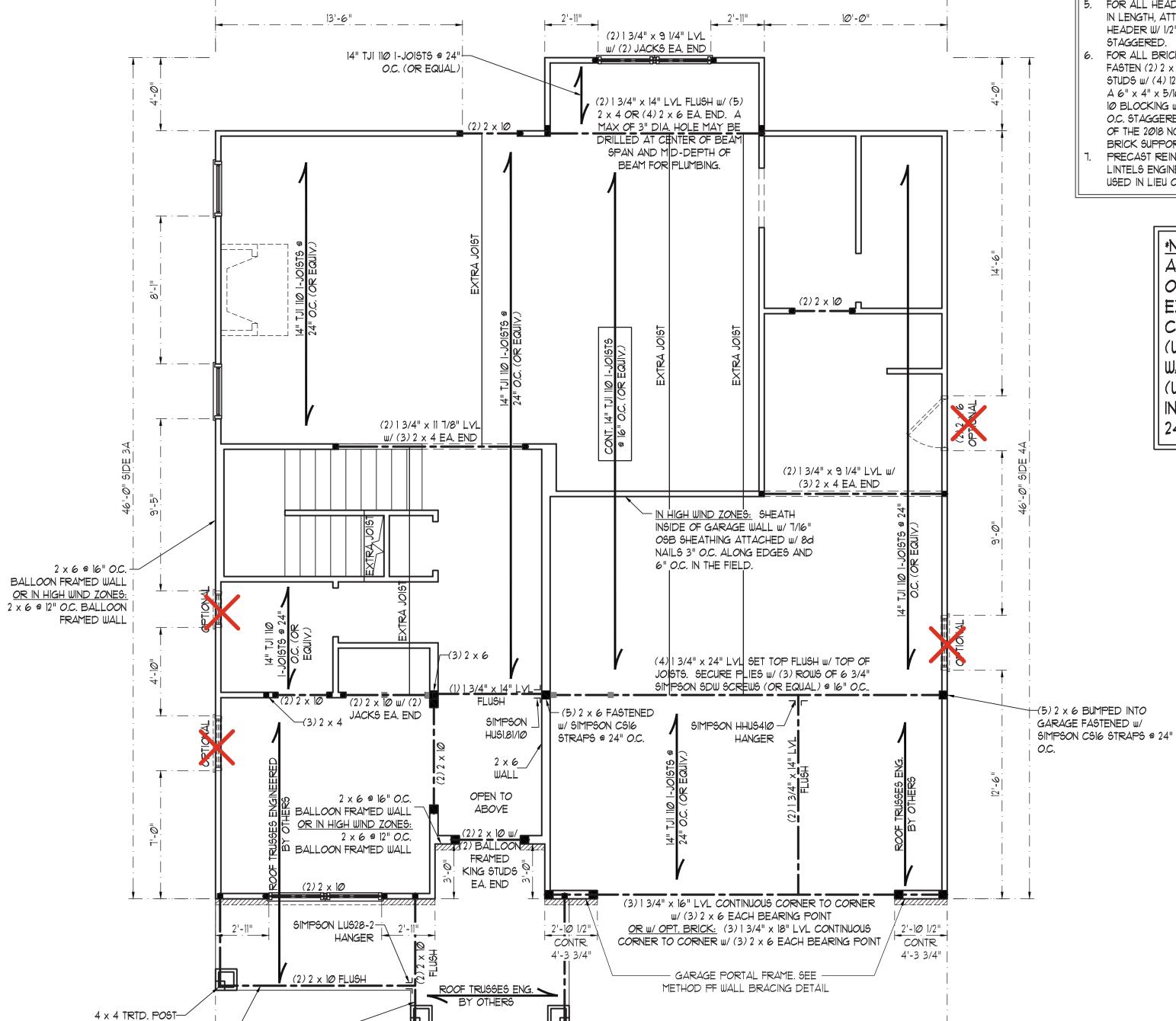
3/30/2021

ENGENE: SUITE 104 RALEIG

CAVINESS & CATES



40'-0" SIDE 2A



(2) 2 x 10 (TYP.)

 $(2)^{2} \times 10^{4} \text{ W}/$

(2) BALLOON

FRAMED KING STUDS

EA. END

2 x 6 @ 16" O.C.

2 x 6 @ 12" O.C.

BALLOON FRAMED WALL

OR IN HIGH WIND ZONES:

BALL*oo*n framed wall

40'-0" SIDE IA RECTANGLE A

— · — · — · — · — · — · — · — · — · — - |

MIN. (TYP.)

FRAME DOWN BELOW-

MATCH SOFFIT HEIGHT

FLUSH BEAMS TO

LINTEL SCHEDULE FOR BRICK/NATURAL STONE SUPPORT LENGTH (FT.) <u>SIZE OF LINTEL</u> UP TO 4 FT. L 3 1/2 x 3 1/2 x 1/4 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

- (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" \times 4" \times 5/16" STEEL ANGLE TO (2) 2 \times 10 BLOCKING w/(2)1/2" LAG SCREWS @ 12"
- OF THE 2018 NCRC FOR ADDITIONAL BRICK SUPPORT INFORMATION. PRECAST REINFORCED CONCRETE LINTELS ENGINEERED BY OTHERS MAY BE USED IN LIEU OF STEEL LINTELS.

*NOTE: ALL EXTERIOR WALLS AND

O.C. MIN. (UNO). 2 x 6 @ 24" O.C.

EXTERIOR WALLS MAY BE

24" O.C. (UNO).

PLAN.

ATTIC WALLS ARE TO BE 2 x 4 @ 16"

CONSTRUCTED IN LIEU OF 2 x 4 WALLS

(UNO). ALL INTERIOR LOAD BEARING

INTERIOR WALLS ARE TO BE 2 x 4 @

WALLS ARE TO BE 2 x 4 @ 16" O.C.

(UNO) AND NON-LOAD BEARING

NOTE: BCI 4500s-1.8 JOISTS MAY

BE INSTALLED IN LIEU OF TJI 110

JOISTS AT THE DEPTH AND

SPACING INDICATED ON THE

O.C. STAGGERED. SEE SECTION RT03.8.2.1

TABLE R602.7.5 MINIMUM NUMBER OF FULL HEIGHT STUDS

	AT EACH END OF HEADERS IN EXTERIOR WALLS				
	HEADER SPAN (FEET)	MAXIMUM STUD SPACING (INCHES) (PER TABLE R602.3(5)			
		16	24		
	UP TO 3'	1	1		
	4'	2	1		
	8'	3	2		
	12'	5	3		
	16'	6	4		
		•			

BRACED WALL DESIGN NOTES:

BRACED WALL DESIGN PER SECTION R602.10 OF THE NCRC 2018 EDITION.

CS-WSP REFERS TO "CONTINUOUS SHEATHING - WOOD STRUCTURAL PANELS" CONTRACTOR IS TO INSTALL 1/16" 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 1" 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 NCRC 2018 EDITION.
- SEE NOTES AND DETAIL SHEETS FOR ADDITIONAL BRACED WALL INFORMATION.

<u>RECTANGLE A</u> SIDE IA (FRONT LOAD) METHOD: CS-WSP/PF TOTAL REQUIRED LENGTH: 12.72' TOTAL PROVIDED LENGTH: 14.46' SIDE 2A METHOD: CS-WSP TOTAL REQUIRED LENGTH: 12.72'

TOTAL PROVIDED LENGTH: 17.67 SIDE 3A METHOD: CS-WSP TOTAL REQUIRED LENGTH: 11.31 TOTAL PROVIDED LENGTH: 39.33' SIDE 4A (SIDE LOAD)

BRACED WALL DESIGN

METHOD: CS-WSP/PF TOTAL REQUIRED LENGTH: 11.31 TOTAL PROVIDED LENGTH: 28.13'

STRUCTURAL NOTES:

ALL FRAMING LUMBER TO BE SPF #2 (UNO). ALL TREATED LUMBER TO BE SYP #2 (UNO.)

- ALL LOAD BEARING HEADERS TO BE (2) 2 x 6 SPF #2 OR SYP *2 (KILN DRIED) (UNO). HEADERS HAVE BEEN DESIGNED BASED ON CALCULATED LOADS. CODE TABLES HAVE NOT BEEN USED.
- 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 GIRDER OR FOUNDATION. ALL SQUARES TO BE (2) STUDS (UNO.)
- 6. FOR HIGH WIND ZONES, ALL EXTERIOR WALLS TO BE SHEATHED WITH 1/16" 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 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.
- SPECIFIED SIMPSON STRONG-TIE PRODUCTS MAY BE SUBSTITUTED WITH THOSE MANUFACTURED BY USP STRUCTURAL CONNECTORS PROVIDED THAT THE LOAD CAPACITY AND FUNCTION IS EQUIVALENT. 9. 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 AND BOTTOM (UNO.)
- 10. 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
- REFER TO NOTES AND DETAIL SHEETS FOR ADDITIONAL STRUCTURAL INFORMATION.

DATE: MARCH 30, 2021

DRAWN BY: TT



SHEET: 4 OF: 15 SECOND FLOOR FRAMING PLAN

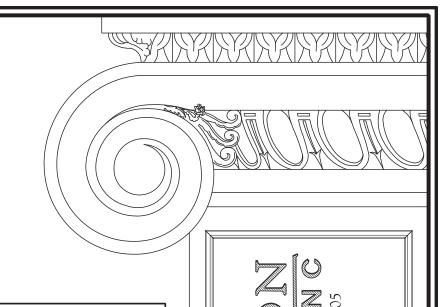
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SCALE: 1/4" = 1'-0"

ENGINEERED BY: JAG



*NOTE: ALL EXTERIOR WALLS AND ATTIC WALLS ARE TO BE 2 x 4 @ 16" O.C. MIN. (UNO). 2 x 6 @ 24" O.C. EXTERIOR WALLS MAY BE CONSTRUCTED IN LIEU OF 2 x 4 WALLS (UNO). ALL INTERIOR LOAD \parallel BEARING WALLS ARE TO BE 2 imes 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 NCRC 2018 EDITION.
- CS-WSP REFERS TO "CONTINUOUS SHEATHING WOOD STRUCTURAL PANELS" CONTRACTOR IS TO INSTALL 1/16" 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 NCRC 2018 EDITION.
- SEE NOTES AND DETAIL SHEETS FOR ADDITIONAL BRACED WALL INFORMATION.

-TRUSS MANUFACTURER TO DESIGN GABLE END TRUSS TO CLEAR

SPAN WINDOW. NO HOR REQUIRED.

ROOF TRUSSES ENGINEERED

(2) 2 x 10 FLUSH (2) 2 x 10

OPEN TO

BELOW

OOF TRUSSES ENGINEERED

ROOF TRUSSES ENGINEERED

BY OTHERS

TRAY UP 5.5"

 $(2) 2 \times 10$

2 x 6 @ 16" O.C. BALLOON —

FROM BELOW

FRAMED WALL FROM BELOW <u>OR</u>

IN HIGH WIND ZONES: 2 x 6 @ 12"

L______

O.C. BALLOON FRAMED WALL

GIRDER TRUSS ENGINEERED BY OTHERS LT $w/(3) 2 \times 4 OR(3) 2 \times 6 EA. END$

- TRUSS MANUFACTURER TO DESIGN

SPAN WINDOW. NO HOR REQUIRED.

GABLE END TRUSS TO CLEAR

ROOF TRUSSES ENGINEERED

GIRDER TRUSS ENGINEERED BY OTHERS

- TRUSS MANUFACTURER TO DESIGN

SPAN WINDOW. NO HOR REQUIRED.

GABLE END TRUSS TO CLEAR

ROOF TRUSSES ENGINEERED

GIRDER TRUSS ENGINEERED BY OTHERS

 $w/(3)2 \times 4 OR(3)2 \times 6 EA. END$

OPTIONAL M. BATH #1

YES

BY OTHERS

2 x 6 @ 16" O.C. BALLOON —

FROM BELOW

FRAMED WALL FROM BELOW OR

O.C. BALLOON FRAMED WALL

IN HIGH WIND ZONES: 2 x 6 @ 12"

 $w/(3) 2 \times 4 OR(3) 2 \times 6 EA. END$

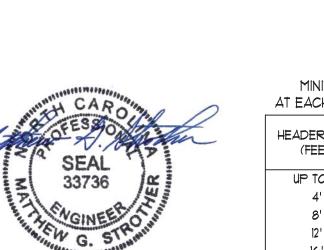
- 1. PER SECTION R602.10.3.2 OF THE 2018 NCRC, THE AMOUNT OF BRACING ON THE SECOND FLOOR EXCEEDS THE AMOUNT REQUIRED FOR THE FIRST FLOOR AND NO BRACED WALL ANALYSIS IS REQUIRED.
- 2. SHEATH ALL EXTERIOR WALLS WITH 7/16" OSB SHEATHING ATTACHED WITH 8d NAILS AT 6" O.C. ALONG PANEL EDGES AND 12" O.C. IN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

STRUCTURAL NOTES:

- ALL FRAMING LUMBER TO BE #2 SPF
- ALL LOAD BEARING HEADERS TO BE (2) 2×6 (UNO). 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 GIRDER OR FOUNDATION. SQUARES TO BE (2) STUDS (UNO.) FOR HIGH WIND ZONES, ALL EXTERIOR
- WALLS TO BE SHEATHED WITH 1/16" 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 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. SPECIFIED SIMPSON STRONG-TIE PRODUCTS MAY BE SUBSTITUTED WITH
- THOSE MANUFACTURED BY USP STRUCTURAL CONNECTORS PROVIDED THAT THE LOAD CAPACITY AND FUNCTION IS EQUIVALENT.
- REFER TO NOTES AND DETAIL SHEETS FOR ADDITIONAL STRUCTURAL INFORMATION.

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

HEADER SPAN (FEET)	MAXIMUM STUD SPACING (INCHES) (PER TABLE R602.3(5)	
(1 == 17	16	24
UP TO 3'	1	1
4'	2	1
8'	3	2
12'	5	3
16'	6	4



ES

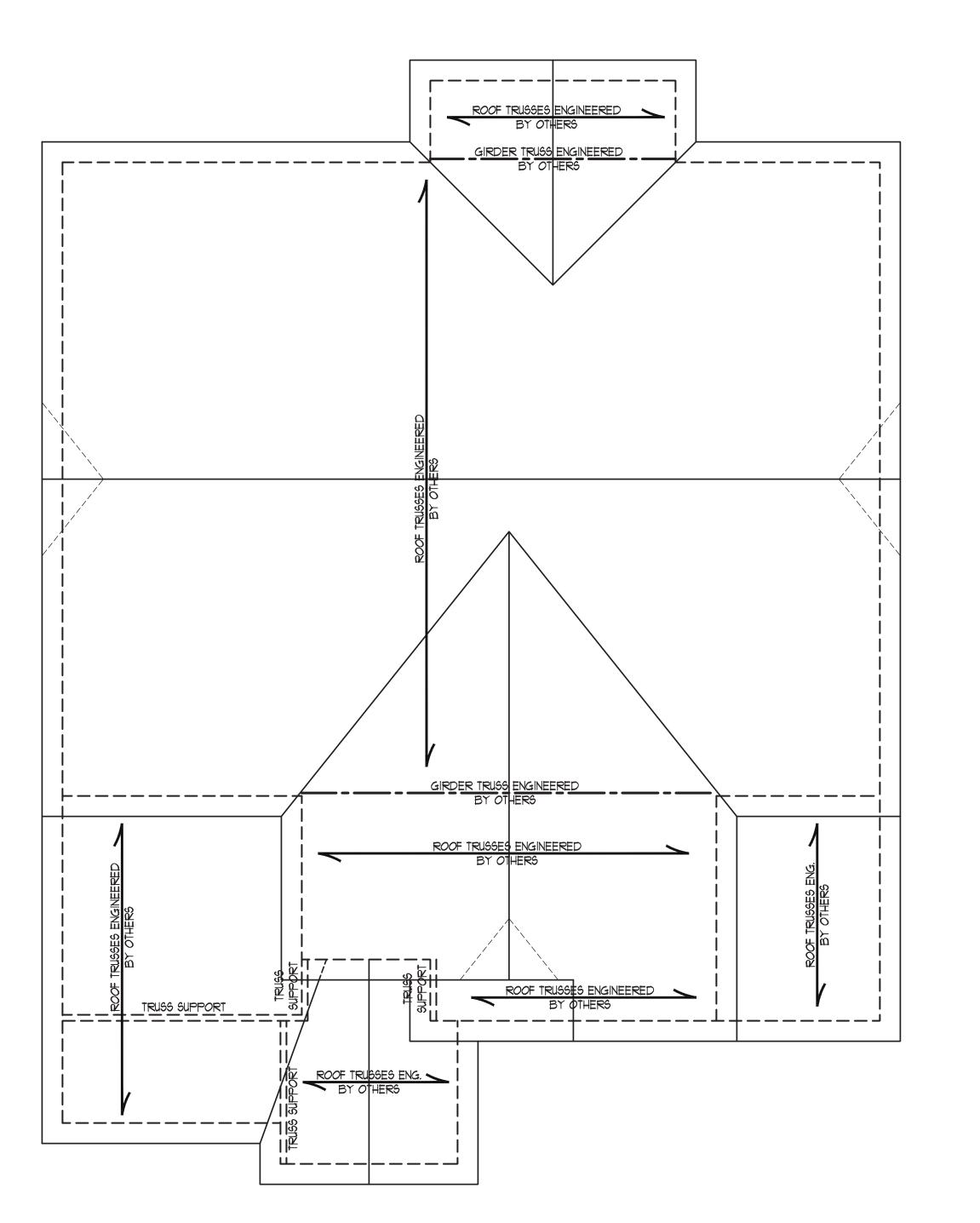
ENGINEERED BY: JAG

SHEET: 5 OF: 15 S-3 ATTIC FLOOR FRAMING PLAN

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DATE: MARCH 30, 2021 SCALE: 1/4" = 1'-0"

DRAWN BY: TT





- ALL FRAMING LUMBER TO BE #2 SPF (UNO).
- 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.
- . 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.
- I. REFER TO SECTION R802.11 OF THE \parallel 2018 NCRC FOR REQUIRED UPLIFT RESISTANCE AT RAFTERS AND TRUSSES.
- REFER TO NOTES AND DETAIL SHEETS FOR ADDITIONAL STRUCTURAL INFORMATION.

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DATE: MARCH 30, 2021

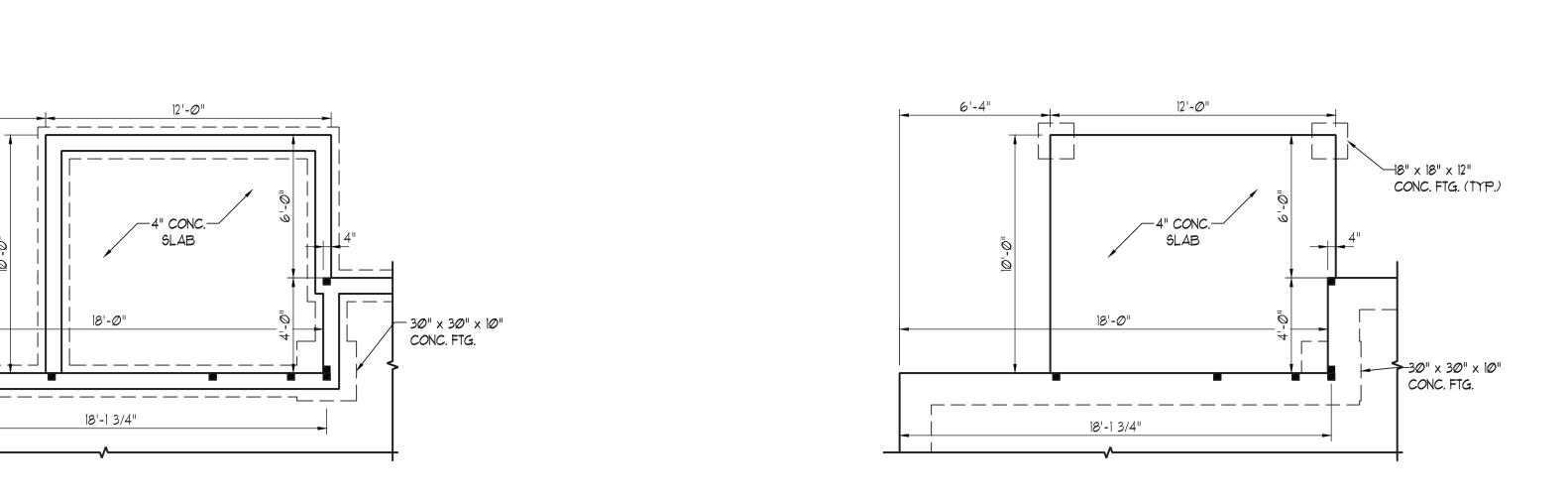
SCALE: 1/4" = 1'-0"

DRAWN BY: TT

ENGINEERED BY: JAG

SHEET: 6 OF: 15 S-4a ROOF FRAMING

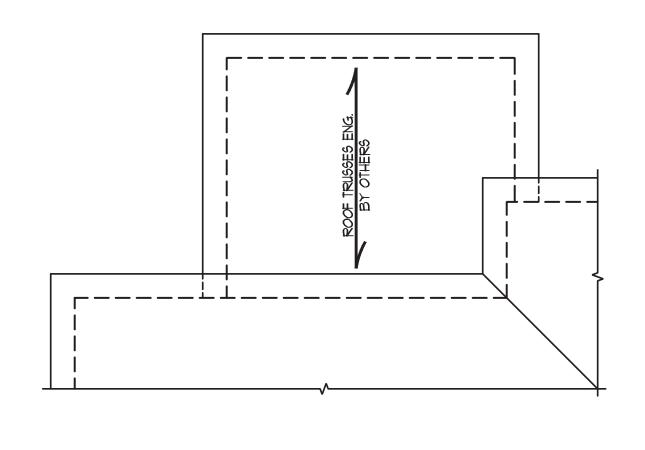
PLAN



(2) 1 3/4" x 9 1/4" LVL w/ (2) JACKS EA. END 6/0 GLASS SLIDER (2) <u>1 3/4" x 11 7/8" LVL</u> w/ (2) JACKS EA. END (3) 2/8 DOOR FULL LITE UNIT (0/X/0) (2) | 3/4" x 9 |/4" LVL w/ (2) JACKS EA. END 5/4 ATRIUM __4 x 4 TRTD. POST MIN. (TYP.) (2) | 3/4" x 9 |/4" LVL (5) 2 x 4 OR (4) 2 x 6 (2) 2 × 10

FRAMING PLAN

ON 18" x 18" x 8"
CONC. FTG. (TYP.)



MONO SLAB

10x10 patio

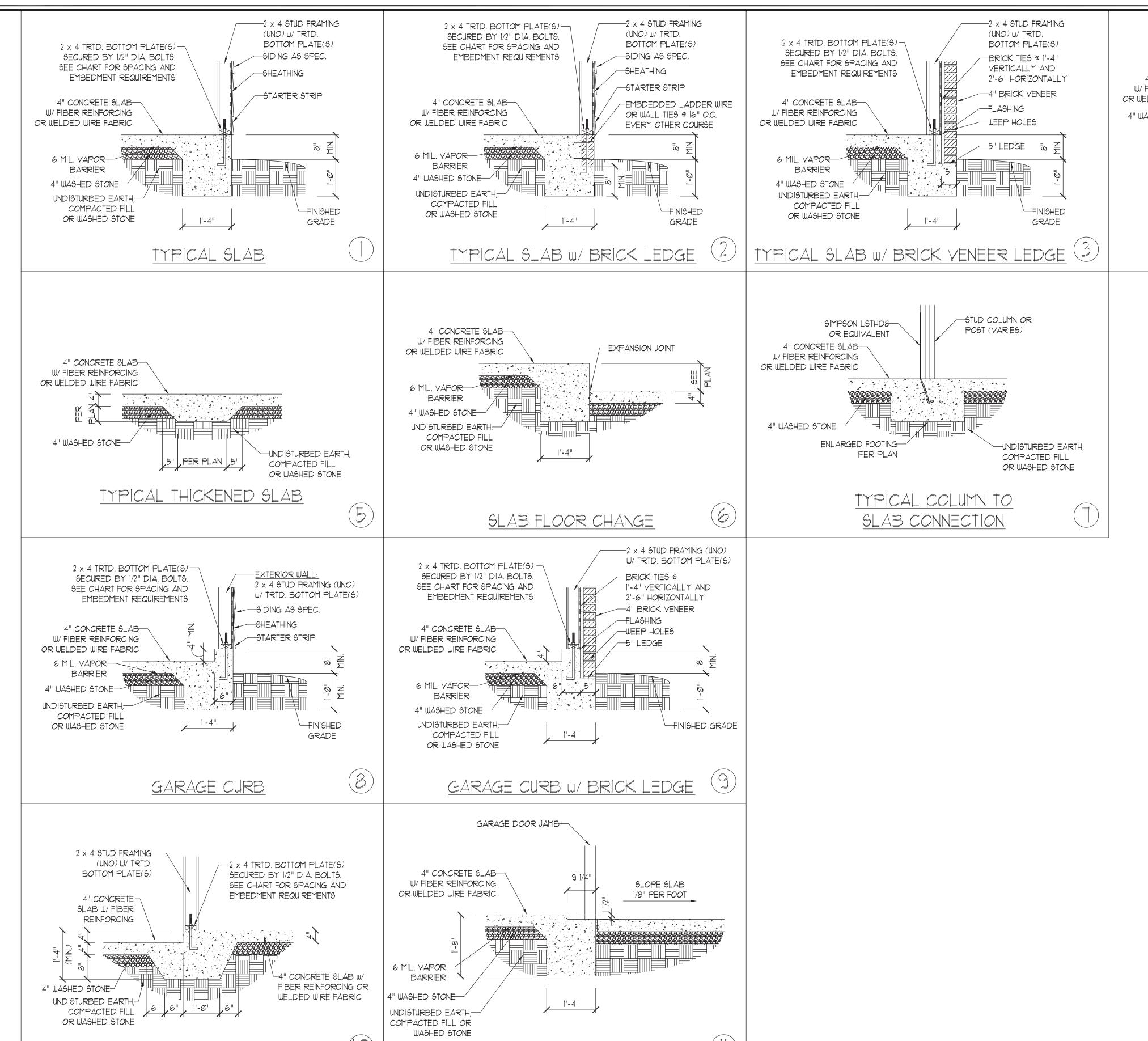
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DATE: MARCH 30, 2021

SCALE: 1/4" = 1'-0" DRAWN BY: TT

ENGINEERED BY: JAG

SHEET: 12 OF: 15 S-10 12' PORCH



SLAB AT GARAGE DOOR

THREADED ROD WITH EPOXY,

TO PROVIDE EQUIVALENT

LIEU OF 1/2" ANCHOR BOLTS.

SIMPSON TITEN HD, OR APPROVED

ANCHORS SPACED AS REQUIRED

ANCHOR BOLTS MAY BE USED IN

ANCHORAGE TO 1/2" DIAMETER

NOTE:

130 MPH

4'-Ø" O.C.

INSTALL MIN. (2) ANCHORS PER

PLATE SECTION AND (1)

ANCHOR WITHIN 12" OF CORNERS

15" INTO MASONRY

7" INTO CONCRETE

STEP IN GARAGE

120 MPH

6'-0" O.C.

INSTALL MIN. (2) ANCHORS PER

PLATE SECTION AND (1)

ANCHOR WITHIN 12" OF CORNERS

7"

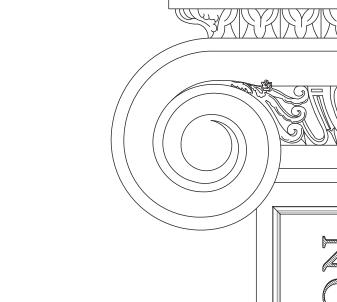
WIND ZONE

SPACING

EMBEDMENT

ANCHOR SPACING AND EMBEDMENT

-TREATED POST PER PLAN 4" CONCRETE SLAB POST BASE PER PLAN W/ FIBER REINFORCING OR WELDED WIRE FABRIC -FINISHED GRADE 4" WASHED STONE UNDISTURBED EARTH, COMPACTED FILL OR WASHED STONE PORCH/SCREEN PORCH



SLAB ETAIL MONOLITHIC S FOUNDATION DE



DATE: NOVEMBER 1, 2018 SCALE: NTS DRAWN BY: JST ENGINEERED BY: JST

> FOUNDATION **DETAILS**

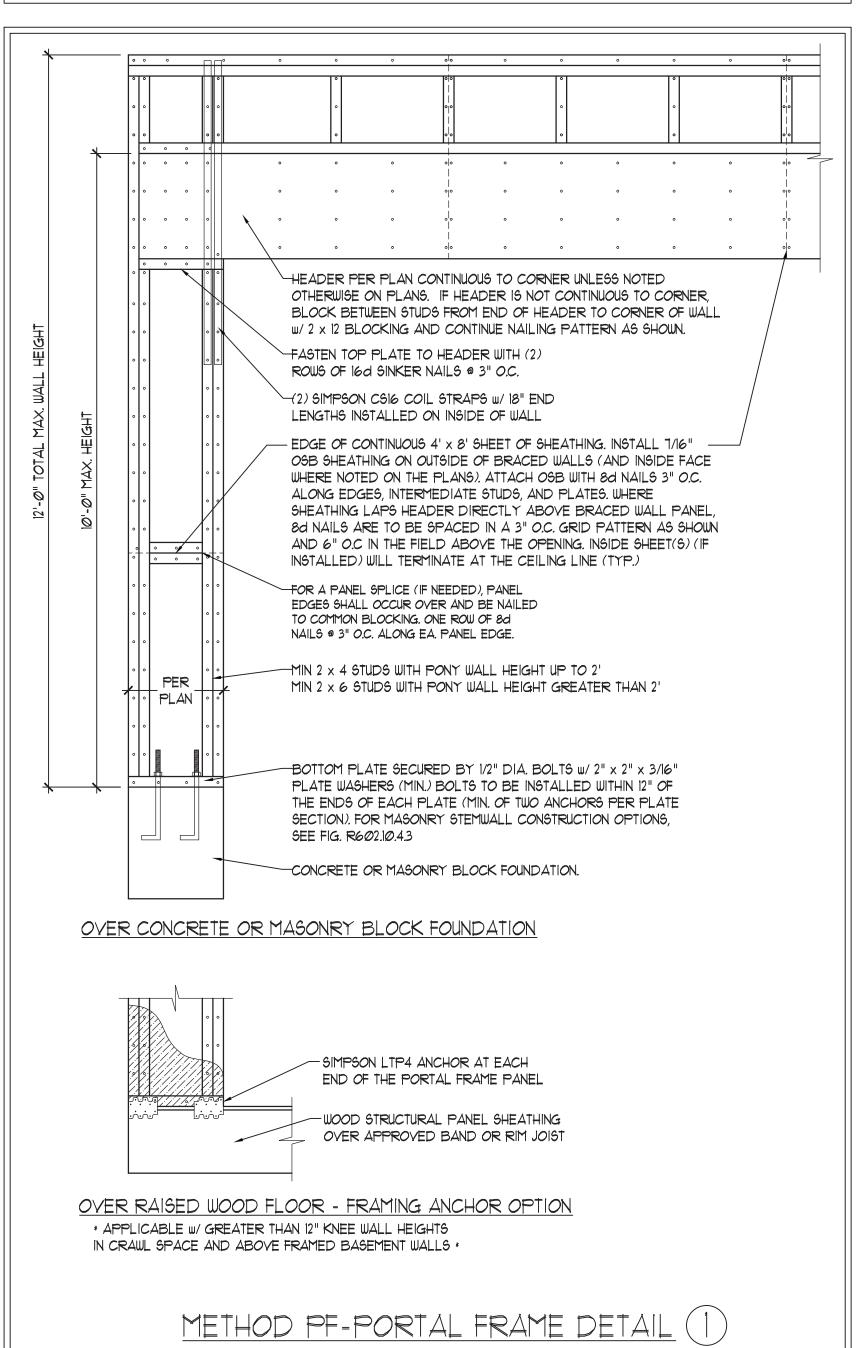
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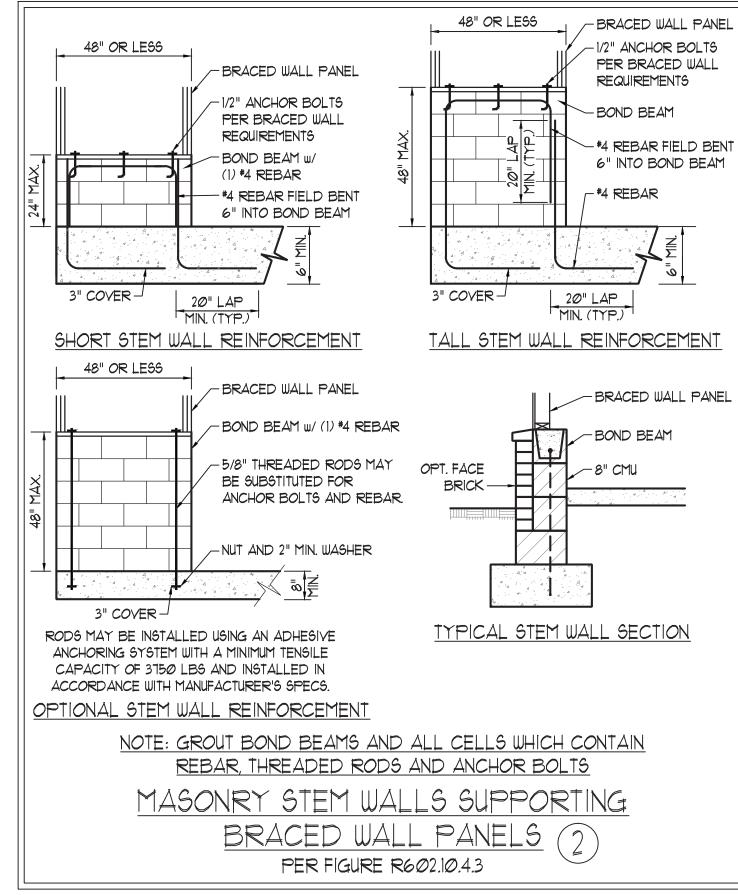
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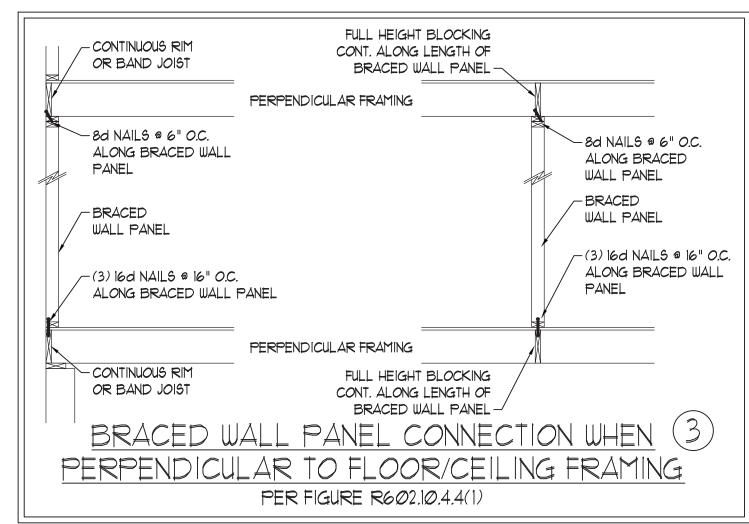
by others is a punishable offense

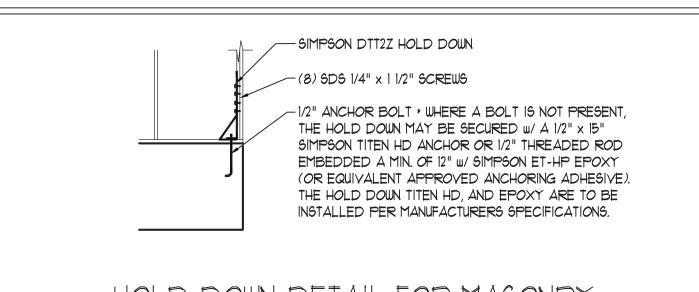
under N.C. Statute § 89C-23

- WALL BRACING DESIGNED IN ACCORDANCE WITH CHAPTER 6 OF THE 2018 NC RESIDENTIAL BUILDING CODE (NCRC). TABLES AND FIGURES REFERENCED ARE FROM THE 2018 NCRC.
- SEE THIS SHEET FOR GENERAL DETAILS. REFER TO THE 2018 NCRC FOR ADDITIONAL INFORMATION AS NEEDED 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
- 4. ALL EXTERIOR WALLS ARE TO BE SHEATHED WITH CS-WSP IN ACCORDANCE WITH SECTION R602.10.3 UNLESS NOTED OTHERWISE.
- ALL EXTERIOR AND INTERIOR WALLS TO HAVE 1/2" GYPSUM INSTALLED. WHEN NOT USING METHOD "GB", GYPSUM TO BE FASTENED PER TABLE R7/02.3.5. METHOD GB TO BE FASTENED PER TABLE R6/02.10.1
- 5. 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 Ø.113"
- DIAMETER) NAILS SPACED 6" O.C. ALONG PANEL EDGES AND 12" O.C. IN THE FIELD (U.N.O.) 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 T" 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 RT02.3.5. FOR EXTERIOR FASTENER OPTIONS SEE TABLE R602.3(1). EXTERIOR GB TO BE INSTALLED VERTICALLY.
- REQUIRED BRACED WALL LENGTH FOR EACH SIDE OF THE CIRCUMSCRIBED RECTANGLE ARE INTERPOLATED PER TABLE R602. 10.3. METHOD C5-WSP CONTRIBUTES ITS ACTUAL LENGTH, METHOD GB CONTRIBUTES .5 ITS ACTUAL LENGTH, AND METHOD PF CONTRIBUTES 1.5 TIMES ITS ACTUAL LENGTH.









HOLD DOWN DETAIL FOR MASONRY FOUNDATION OR MONOLITHIC SLAB * APPLICABLE ONLY WHERE SPECIFIED ON PLAN *

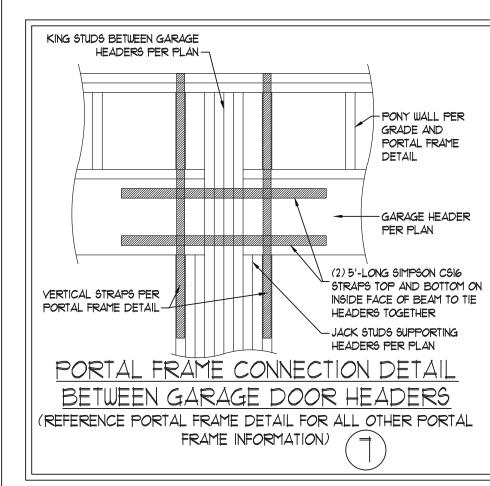
TYPICAL EXTERIOR CORNER FRAMING FOR CONTINUOUS SHEATHING (5) PER FIGURE R602.10.3(5) MIN. 24" WOOD STRUCTURAL SEE TABLE R602.3(1) PANEL AN 800 LB HOLD DOWN FOR FASTENING DEVICE MAY BE INSTALLED IN LIEU OF CORNER RETURN--ORIENTATION OF STUD MAY VARY. SEE FIGURE R602.3(2) 16d NAIL (3 1/2" x Ø.131") -GYPSUM WALLBOARD AS REQUIRED a 12" O.C. -AND INSTALLED IN ACCORDANCE WITH CHAPTER 1 (TYP.) OPTIONAL NON-STRUCTURAL — CONTINUOUS WOOD STRUCTURAL FILLER PANEL PANEL BRACED WALL LINE SEE TABLE R602.3(1) FOR FASTENING (a) OUTSIDE CORNER DETAIL (5a)ORIENTATION OF STUD MAY VARY. SEE FIGURE R602.3(2)-16d NAIL (3 1/2" x Ø.131") -CONTINUOUS WOOD STRUCTURAL a 12" O.C. PANEL BRACED WALL LINE -SEE TABLE R6*0*2.3(1) GYPSUM WALLBOARD AS FOR FASTENING REQUIRED AND INSTALLED MIN. 24" WOOD STRUCTURAL PANEL IN ACCORDANCE WITH CORNER RETURN. AN 800 LB HOLD CHAPTER 1 (TYP.)-DOWN DEVICE MAY BE INSTALLED IN LIEU OF CORNER RETURN (b) INSIDE CORNER DETAIL (5b) GYPSUM WALLBOARD AS REQUIRED - SEE TABLE R602.3(1) AND INSTALLED IN ACCORDANCE FOR FASTENING WITH CHAPTER 1 (TYP.)-16d NAIL (3 1/2" x Ø.131") (2 ROWS @ 24" O.C. -—MIN. 24" WOOD STRUCTURAL

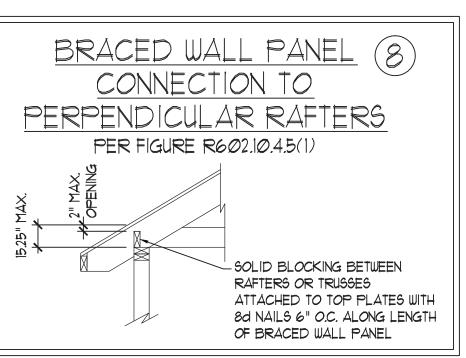
SHEATHING PER PLAN -

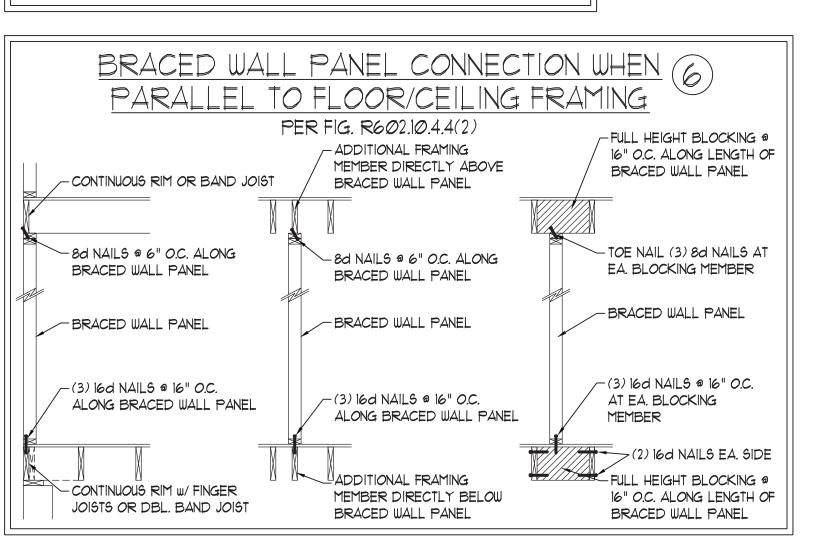
CONTINUOUS WOOD

STRUCTURAL PANEL

BRACED WALL LINE -







PANEL CORNER RETURN. AN

800 LB HOLD DOWN DEVICE

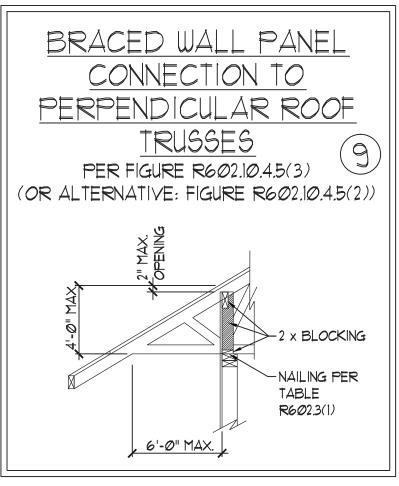
MAY BE INSTALLED IN LIEU

OF CORNER RETURN

FASTENERS ON EACH STUD 50

(c) GARAGE DOOR CORNER DETAIL (SEE PLAN FOR ADDITIONAL

STRUCTURAL INFORMATION OR ALTERNATE CONFIGURATIONS)



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DATE: OCTOBER 30, 2018

SCALE: 1/4" = 1'-0" DRAWN BY: JST

ENGINEERED BY: JST

BRACED WALL NOTES AND DETAILS

AND PF DETAIL

FRAMING 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 1-JOIST OR FLOOR/ROOF TRUSS
- 2. 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.

GENERAL NOTES

3. STRUCTURAL DESIGN BASED ON THE PROVISIONS OF THE NCRC, 2018 EDITION (R301.4 - R301.7)

LAYOUT DESIGN AND ACCURACY.

DESIGN CRITERIA:	LIVE LOAD (PSF)	DEAD LOAD (PSF)	DEFLECTION (IN)		
ATTIC WITH LIMITED STORAGE	2Ø	10	L/240 (L/360 w/ BRITTLE FINISHES)		
ATTIC WITHOUT STORAGE	10	10	L/36Ø		
DECKS	40	10	L/360		
EXTERIOR BALCONIES	40	10	L/360		
FIRE ESCAPES	40	10	L/360		
HANDRAILS/GUARDRAILS	200 LB OR 50 (PLF)	10	L/360		
PASSENGER VEHICLE GARAGE	50	10	L/360		
ROOMS OTHER THAN SLEEPING ROOM	40	10	L/360		
SLEEPING ROOMS	3Ø	10	L/360		
STAIRS	40	10	L/360		
WIND LOAD	(BASED ON TABLE R3Ø1.20	BASED ON TABLE R3Ø1.2(4) WIND ZONE AND EXPOSURE)			
GROUND SNOW LOAD: Pg	2Ø (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
- 4. FOR 115 AND 120 MPH WIND ZONES, FOUNDATION ANCHORAGE 15 TO COMPLY WITH SECTION R403.1.6 OF THE NCRC, 2018 EDITION. FOR 130 MPH, 140 MPH, AND 150 MPH WIND ZONES, FOUNDATION ANCHORAGE 15 TO COMPLY WITH SECTION 4504 OF THE NCRC, 2018 EDITION.
- 5. ENERGY EFFICIENCY COMPLIANCE AND INSULATION VALUES OF THE BUILDING TO BE IN ACCORDANCE WITH CHAPTER II OF THE NCRC, 2018 EDITION.

FOOTING AND FOUNDATION NOTES

- 1. FOUNDATION DESIGN BASED ON A MINIMUM ALLOWABLE BEARING CAPACITY OF 2000 PSF. CONTACT GEOTECHNICAL ENGINEER IF BEARING CAPACITY IS NOT ACHIEVED.
- 2. 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 I, ACCORDING TO THE UNITED SOIL CLASSIFICATION SYSTEM IN ACCORDANCE WITH TABLE R405.1 OF THE NCRC, 2018 EDITION.
- 3. 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.
- 4. 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 #5 BARS OR SMALLER, AND NOT LESS THAN 2" FOR #6 BARS OR LARGER.
- 5. MASONRY UNITS TO CONFORM TO ACE 530/ASCE 5/TMS 402. MORTAR SHALL COMFORM TO ASTM C270.
- 6. 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. PERS MAY BE FILLED SOLID WITH CONCRETE OR TYPE M OR S MORTAR PIERS AND WALLS SHALL BE CAPPED WITH 8" OF SOLID MASONRY.
- 1. 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.
- 8. ALL CONCRETE AND MASONRY FOUNDATION WALLS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE PROVISIONS OF SECTION R4Ø4 OF THE NCRC, 2Ø18 EDITION OR IN ACCORDANCE WITH ACI 318, ACI 332, NCMA TR68-A OR ACE 53Ø/ASCE 5/TMS 4Ø2. MASONRY FOUNDATION WALLS ARE TO BE REINFORCED PER TABLE R4Ø4.I.(1), R4Ø4.I.(2), R4Ø4.I.(3), OR R4Ø4.I.(4) OF THE NCRC, 2Ø18 EDITION. CONCRETE FOUNDATION WALLS ARE TO BE REINFORCED PER TABLE R4Ø4.I.(5) OF THE NCRC, 2Ø18 EDITION. STEP CONCRETE FOUNDATION WALLS TO 2 x 6 FRAMED WALLS AT 16" O.C. WHERE GRADE PERMITS (UNO).

1. ALL FRAMING LUMBER SHALL BE *2 SPF MINIMUM (Fb = 875 PSI, Fv = 375 PSI, E = 1600000 PSI) UNLESS NOTED OTHERWISE (UNO). ALL TREATED LUMBER SHALL BE *2 SYP MINIMUM (Fb = 975 PSI, Fv = 175 PSI, E = 1600000 PSI) UNLESS NOTED OTHERWISE (UNO).

2. LAMINATED VENEER LUMBER (LVL) SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: Fb = 2600 PSI, Fv = 285 PSI, E = 1900000 PSI.

LAMINATED STRAND LUMBER (LSL) SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: Fb = 2325 PSI, Fv = 310 PSI, E = 1550000 PSI.

PARALLEL STRAND LUMBER (PSL) UP TO 1" DEPTH SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: Fc = 2500 PSI, E = 18000000 PSI.

PARALLEL STRAND LUMBER (PSL) MORE THAN 1" DEPTH SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: Fc = 2900 PSI, E = 20000000 PSI. INSTALL ALL CONNECTIONS PER MANUFACTURER'S SPECIFICATIONS.

3. 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

4. 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:

B. CONCRETE

C. MASONRY (FULLY GROUTED)

(2) 1/2" DIA. x 4" WEDGE ANCHORS

(2) 1/2" DIA. x 4" LONG SIMPSON TITEN HD ANCHORS

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.

- 5. 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.
- 6. 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.
- 1. 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 I I/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).
- 8. FLITCH BEAMS SHALL BE BOLTED TOGETHER USING 1/2" DIAMETER BOLTS (ASTM A3ØT) 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).
- 9. ALL 1-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.
- 10. 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.
- 11. PROVIDE DOUBLE JOIST UNDER ALL WALLS PARALLEL TO FLOOR JOISTS. PROVIDE SUPPORT UNDER ALL WALLS PARALLEL TO FLOOR TRUSSES OR 1-JOISTS PER MANUFACTURER'S SPECIFICATIONS. INSTALL BLOCKING BETWEEN JOISTS OR TRUSSES FOR POINT LOAD SUPPORT FOR ALL POINT LOADS ALONG OFFSET LOAD LINES.
- 12. 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 (UN.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 RT03.8.2.1 OF THE NCRC, 2018 EDITION.
- 13. 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'-Ø". 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).
- 14. 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).
- 15. ALL 4 x 4 AND 6 x 6 POSTS TO BE INSTALLED WITH 100 LB CAPACITY UPLIFT CONNECTORS TOP AND BOTTOM (UNO.) POSTS MAY BE SECURED USING ONE SIMPSON H6 OR LTS12 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.

Solution of the state of the st

STANDARD STRUCTURAL NOTES

DATE: OCTOBER 29, 2018

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

DRAWN BY: JES

33736

3/30/2021

ENGINEERED BY: JST

TRUCTURA

STRUCTURAL NOTES

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2 x 4 TRTD. BOTTOM PLATE(S)—

SECURED BY 1/2" DIA. BOLTS.

SEE CHART FOR SPACING AND

4" CONCRETE SLAB

W/ FIBER REINFORCING

OR WELDED WIRE FABRIC

6 MIL. VAPOR-

BARRIER

4" WASHED STONE-

UNDISTURBED EARTH,

COMPACTED FILL

(3) #4 REBAR CONTINUOUS

(2) #5 REBAR OR— (3) #4 REBAR CONTINUOUS

(2) #5 REBAR OR-

OR WASHED STONE

EMBEDMENT REQUIREMENTS

-STUD COLUMN OR

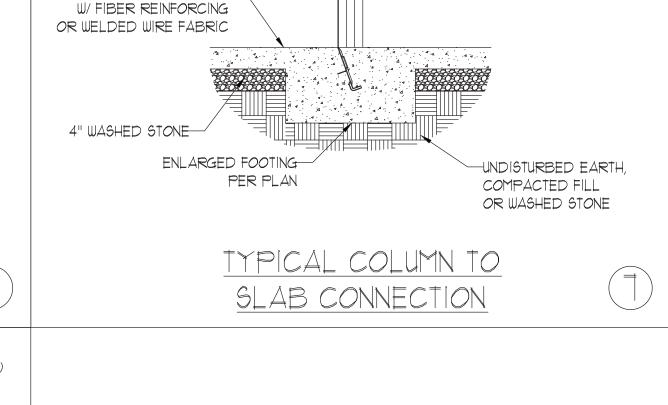
POST (VARIES)

SPEED WIND | DETAI 140 MPH - 150 MPH ULTIMATE DESIGN MONOLITHIC SLAB FOUNDATION

DATE: NOVEMBER 1, 2018 SCALE: NTS DRAWN BY: JST ENGINEERED BY: JST

> FOUNDATION **DETAILS**

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NOTE:

SIMPSON LSTHD8

OR EQUIVALENT

4" CONCRETE SLAB-

LOCATE REBAR 3" ABOVE BOTTOM OF FOOTING W/MIN. 25" LAP SPLICE LENGTH.

4" CONCRETE SLAB W/ FIBER REINFORCING OR WELDED WIRE FABRIC 4" WASHED STONE WASHED STONE WITH A STONE WITH A STONE WITH A STONE WASHED STONE WASHED STONE	6 MIL. VAPOR BARRIER 4" WASHED STONE UNDISTURBED EARTH, COMPACTED FILL OR WASHED STONE (2) #5 REBAR OR (3) *4 REBAR CONTINUOUS
TYPICAL THICKENED SLAB (5)	SLAB FLOOR CHANGE 6
2 x 4 TRTD. BOTTOM PLATE(\$) SECURED BY 1/2" DIA. BOLTS. SEE CHART FOR SPACING AND EMBEDMENT REQUIREMENTS 4" CONCRETE \$LAB W/ FIBER REINFORCING OR WELDED WIRE FABRIC 6 MIL. VAPOR BARRIER 4" WASHED STONE 4" WASHED STONE (2) #5 REBAR OR (3) #4 PEBAR CONTINIOUS	2 x 4 STUD FRAMING (UNO) W/ TRTD. BOTTOM PLATE(S) SECURED BY 1/2" DIA. BOLTS. SEE CHART FOR SPACING AND EMBEDMENT REQUIREMENTS 4" CONCRETE SLAB W/ FIBER REINFORCING OR WELDED WIRE FABRIC 6 MIL. VAPOR BARRIER 4" WASHED STONE UNDISTURBED EARTH, COMPACTED FILL OR WASHED STONE 2 x 4 STUD FRAMING (UNO) W/ TRTD. BOTTOM PLATE(S) BRICK TIES © 1'-4" VERTICALLY AND 2'-6" HORIZONTALLY 4" BRICK VENEER FLASHING WEEP HOLES 5" LEDGE FINISHED GRADE (2) #5 REBAR OR

8

4" CONCRETE SLAB-

EXPANSION JOINT

GARAGE CURB W/ BRICK LEDGE

1'-4"

SLAB AT GARAGE DOOR

GARAGE DOOR JAMB-

(2) #5 REBAR OR
(3) #4 REBAR CONTINUOUS

SLOPE SLAB 1/8" PER FOOT

(2) #5 REBAR OR (3) #4 REBAR CONTINUOUS

W/ FIBER REINFORCING

OR WELDED WIRE FABRIC

-2 x 4 STUD FRAMING

BOTTOM PLATE(S)

-FINISHED

GRADE

(UNO) w/ TRTD.

-SIDING AS SPEC.

STARTER STRIP

SHEATHING

	GARAGE
2 x 4 STUD FRAMING (UNO) W/ TRTD. BOTTOM PLATE(S) 4" CONCRETE 4" CONCRETE CLAR W/ FIRED	4" CONCRETE SLAB— W/ FIBER REINFORCING OR WELDED WIRE FABRIC
SLAB W/ FIBER REINFORCING 4" WASHED STONE UNDISTURBED EARTH 4" CONCRETE SLAB W/ FIBER REINFORCING OR WELDED WIRE FABRIC	6 MIL. VAPOR BARRIER 4" WASHED STONE
COMPACTED FILL 6" 6" 1'-0" 6" (2) #5 REBAR OR OR WASHED STONE (3) #4 REBAR CONTINUOUS	UNDISTURBED EARTH, COMPACTED FILL OR WASHED STONE
STEP IN GARAGE (D)	SLA

GARAGE CURB

ANCHOR SPACING AND EMBEDMENT WIND ZONE 140 MPH 150 MPH 6'-0" O.C. w/ DBL. SILL PLATE OR 1'-9" O.C w/ 6'-0" O.C. w/ DBL. SILL PLATE OR 1'-6" O.C w/ SINGLE SILL PLATE W/ 2" x 2" x 1/8" WASHERS SINGLE SILL PLATE w/2" x 2" x 1/8" WASHERS SPACING INSTALL MIN. (2) ANCHORS PER PLATE SECTION INSTALL MIN. (2) ANCHORS PER PLATE SECTION AND (1) ANCHOR WITHIN 12" OF CORNERS AND (1) ANCHOR WITHIN 12" OF CORNERS EMBEDMENT

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.