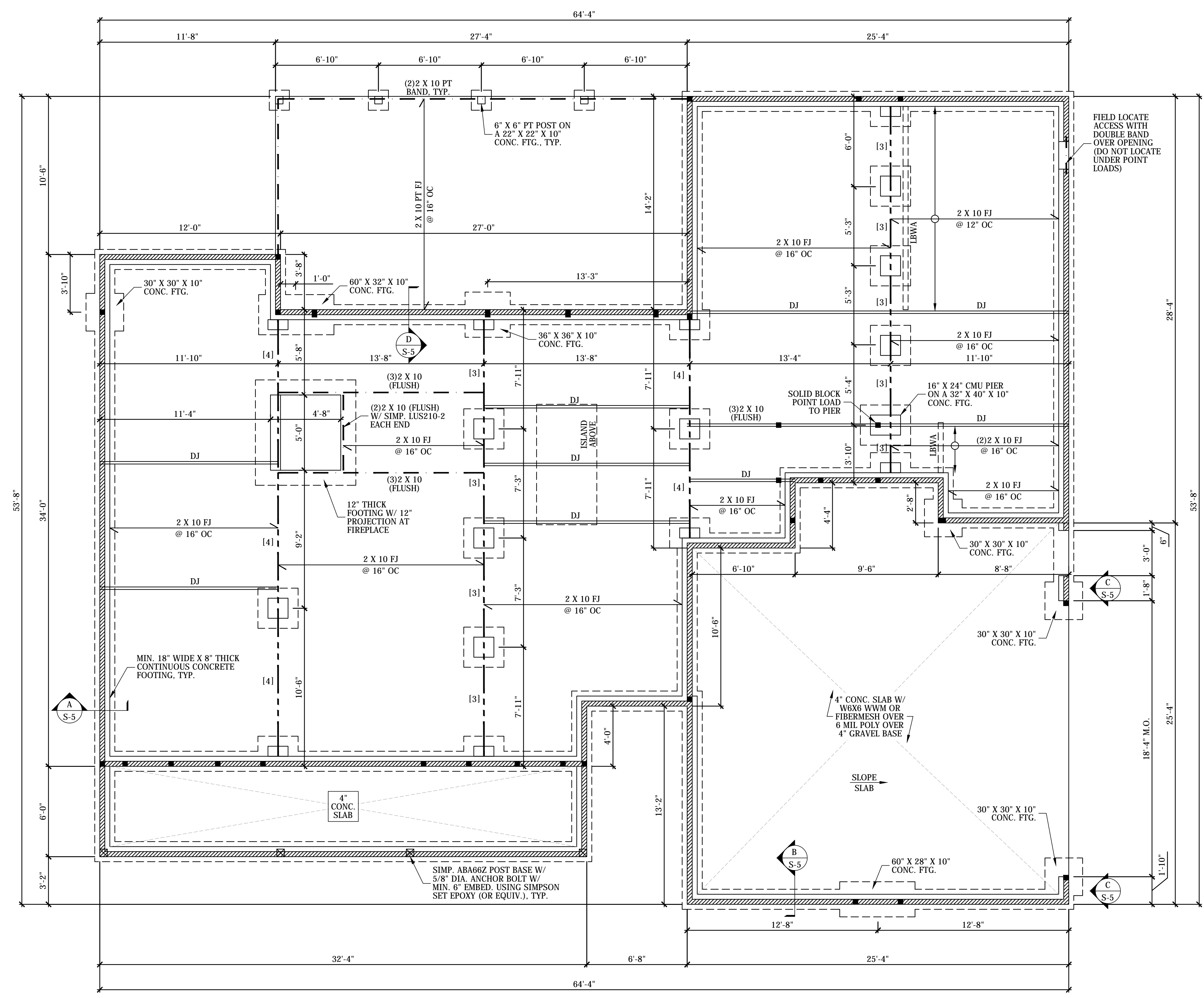


LEGEND	
■	POINT LOAD REQUIRING SOLID BLOCKING TO FOUNDATION
[?]	NUMBER OF 2 X 10 GIRDER PLIES (DROPPED)



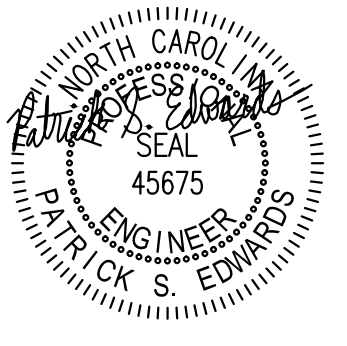
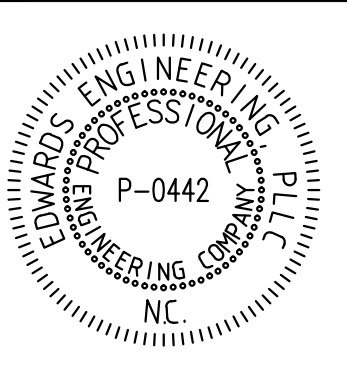
**FOUNDATION PLAN**  
SCALE: 1/4" = 1'-0"

PIER KEY	
	16" X 16" MASONRY PIER ON A 32" X 32" X 10" CONCRETE FOOTING
	8" X 16" MASONRY PIER ON A 24" X 32" X 10" CONCRETE FOOTING

- HOLLOW MASONRY PIERS SHALL HAVE A SOLID MASONRY OR CONCRETE CAP 4" THICK WHEN SUPPORTING ONE STORY AND 8" THICK SUPPORTING MORE THAN ONE STORY.
- MAXIMUM HEIGHT OF HOLLOW MASONRY PIERS SHALL BE FOUR TIMES THE LEAST DIMENSION OF THE PIER. MAXIMUM HEIGHT OF SOLID MASONRY PIERS SHALL BE TEN TIMES THE LEAST DIMENSION OF THE PIER.
- CENTERS OF PIERS SHALL BEAR IN THE MIDDLE THIRD OF THE FOOTINGS. GIRDERS MUST HAVE FULL BEARING ON PIERS. TIE ALL PILASTERS INTO FOUNDATION WALLS.

CRAWL SPACE VENTILATION:	
AREA OF CRAWL SPACE:	1,943 FT <sup>2</sup>
REQUIRED AREA OF VENTILATION: (1 FT <sup>2</sup> OF VENTILATION FOR EVERY 150 FT <sup>2</sup> OF CRAWL SPACE)	12.95 FT <sup>2</sup>
REQUIRED NUMBER OF VENTS (0.45 FT <sup>2</sup> PER VENT):	29 VENTS
NOTE:	
REQUIRED AREA OF VENTILATION MAY BE REDUCED TO 1 SQ. FT. OF VENTILATION PER 1,500 SQ. FT. OF CRAWL SPACE WHERE THE FOLLOWING CONDITIONS ARE MET:	
1. REQUIRED OPENINGS ARE PLACED TO PROVIDE CROSS VENTILATION	
2. THE GROUND SURFACE IS FULLY COVERED WITH A MINIMUM 6-MIL VAPOR BARRIER WITH JOINTS LAPPED MIN. 12"	
REDUCED AREA OF VENTILATION:	1.3 FT <sup>2</sup>
REDUCED NUMBER OF VENTS REQ'D (0.45 FT <sup>2</sup> PER VENT):	3 VENTS

- LOCATE ONE VENT WITHIN 3'-0" OF EACH CORNER OF THE BUILDING
- UPHILL FOUNDATION WALLS MAY BE CONSTRUCTED WITHOUT WALL VENT OPENINGS
- PROVIDE VENT DAMS WHERE THE BOTTOM OF THE VENT OPENING IS LESS THAN 4" ABOVE FINISHED EXTERIOR GRADE



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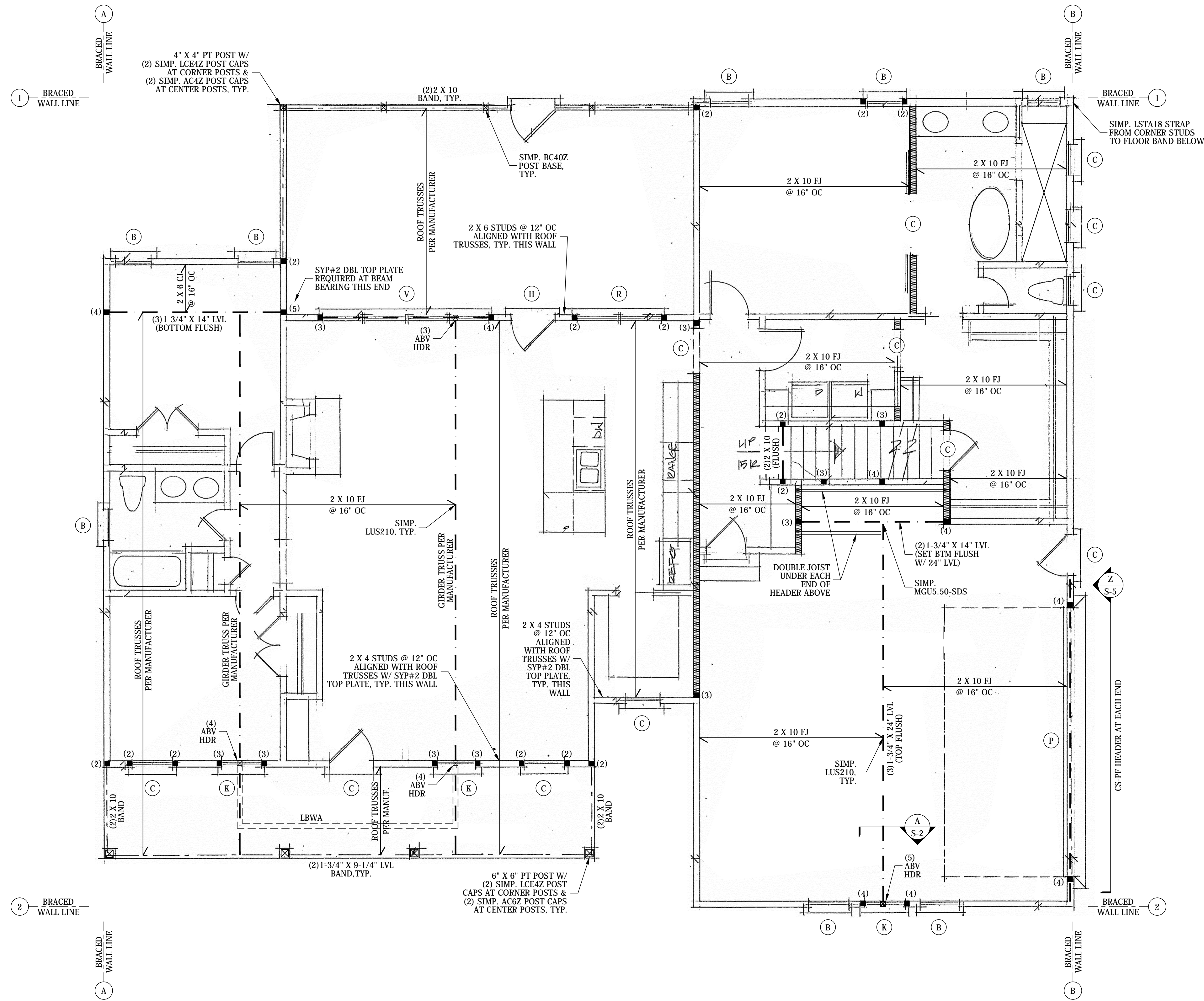
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BALL RD.  
HOLLY SPRINGS, NC 27540

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ARCHITECT/DESIGNER:  
**CIDER HOUSE STUDIOS**  
PLAN NAME:  
1853

JOB #: 20100  
DATE: 11/04/2020  
DRAWN BY: PSE

FOUNDATION PLAN  
FIRST FLOOR FRAMING  
SHEET:  
**S-1**  
1 OF: 5



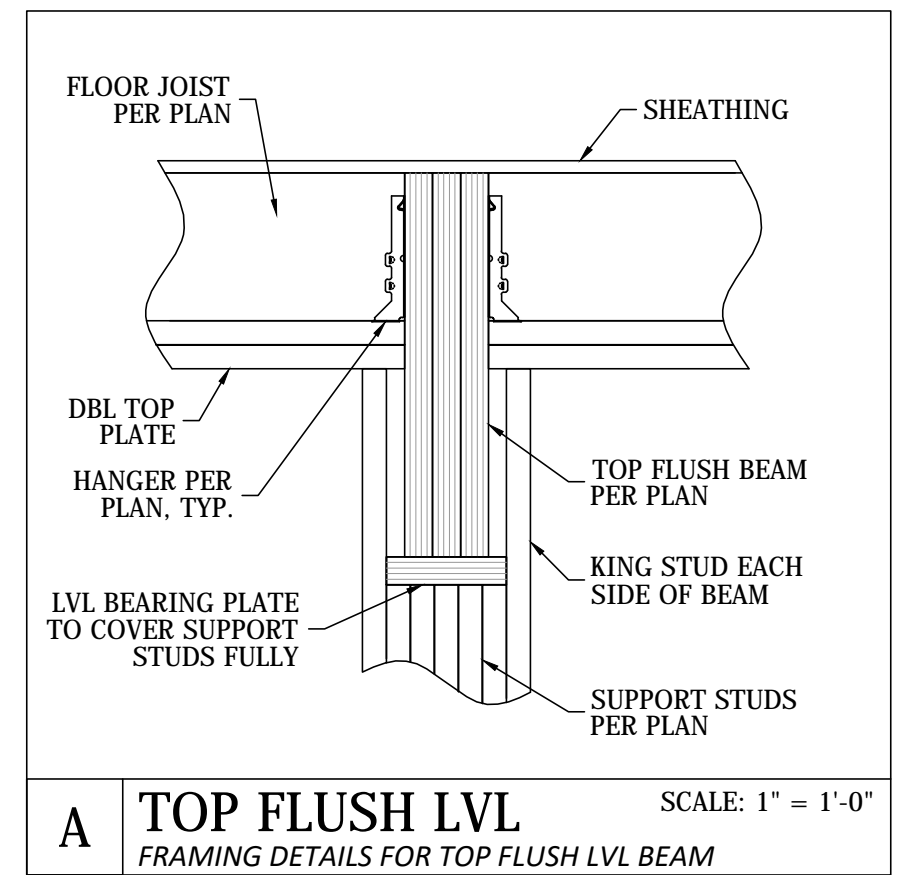
### FIRST FLOOR PLAN

CEILING HEIGHT: 9'-0" UNO  
SCALE: 1/4" = 1'-0"

LEGEND	
■	POINT LOAD REQUIRING SOLID BLOCKING TO FOUNDATION
(#)	NUMBER OF SUPPORT STUDS IN STUD COLUMN (STUD SIZE PER WALL WIDTHS SHOWN ON ARCHITECTURAL PLANS UNO)
▨	LOAD BEARING WALL

HEADER SCHEDULE			
TAG	HEADER	TAG	HEADER
A	(2)2 X 6	K	(2)1.75 X 9.25 LVL
B	(2)2 X 8	L	(2)1.75 X 11.875 LVL
C	(2)2 X 10	M	(2)1.75 X 14 LVL
D	(2)2 X 12	N	(2)1.75 X 16 LVL
E	(3)2 X 4	P	(2)1.75 X 18 LVL
F	(3)2 X 6	R	(2)1.75 X 9.25 LVL & 2 X 10
G	(3)2 X 8	S	(3)1.75 X 9.25 LVL
H	(3)2 X 10	T	(3)1.75 X 11.875 LVL
J	(3)2 X 12	V	(3)1.75 X 16 LVL

• HEADERS SHALL BE SUPPORTED ON SINGLE JACK STUDS UNLESS NOTED OTHERWISE.  
 • REQUIRED NUMBER OF FULL HEIGHT KING STUDS AT EACH END OF HEADER SHALL BE ONE HALF OF STUDS INTERRUPTED BY A WALL OPENING, OR AS REQUIRED BY NCR TABLE R602.7.5

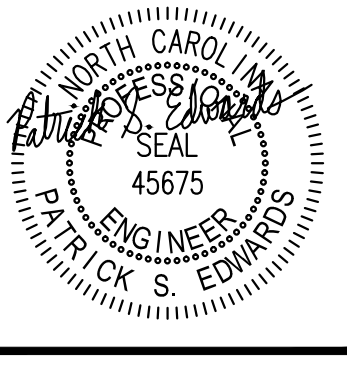
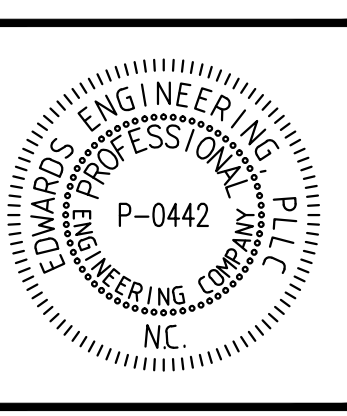


WALL BRACING			
BWL	REQ'D.	PROV'D.	METHOD
A	16.0'	31.5'	CS-WSP
B	16.0'	28.0'	CS-WSP / CS-PF
1	13.5'	26.3'	CS-WSP
2	13.5'	34.6'	CS-WSP

HOUSE: 2-STORY (2:12 PITCH)  
 3'-0" EAVE TO RIDGE

- WALL BRACING NOTES:**
- EXTERIOR WALLS SHALL BE CONTINUOUSLY SHEATHED WITH MINIMUM 3/8" TH WOOD STRUCTURAL PANEL SHEATHING ATTACHED TO FRAMING WITH 8d NAILS @ 6" OC EDGES & 12" OC FIELD WITH ALL SHEATHING EDGES SOLID BLOCKED UNLESS NOTED OTHERWISE.
  - WOOD STRUCTURAL PANELS SHALL CONFORM TO DOC PS1, DOC PS2, OR ANSI/APA PRP 210.
  - INTERIOR SURFACES OF EXTERIOR BRACED WALLS SHALL BE SHEATHED WITH MIN. 1/2" TH GYPSUM WALL BOARD FASTENED PER NCR TABLE R602.10.3(5).
  - WALL CORNERS SHALL BE FRAMED PER NCR FIGURE R602.10.3(5).
  - A MIN. 24" LONG SHEATHING RETURN PANEL SHALL BE PROVIDED ON THE INTERSECTING WALL AT ENDS OF BRACED WALL LINES. WHERE THIS RETURN IS NOT PROVIDED, THE BRACED WALL LINE SHALL HAVE A MIN. 48" LONG PANEL AT THE CORNER, OR A HOLD-DOWN DEVICE RATED FOR MIN. 800 LB. SHALL ATTACH THE EDGE OF THE BRACED WALL PANEL CLOSEST TO THE CORNER TO THE FOUNDATION OR FLOOR FRAMING BELOW.
  - BRACED WALL PANELS SHALL BE CONNECTED TO FLOOR AND CEILING FRAMING PER NCR FIGURES R602.10.4.4(1) & (2).
  - BRACED WALL PANELS SHALL BE CONNECTED TO ROOF FRAMING PER NCR SECTION R602.10.4.5.

**EDWARDS ENGINEERING, PLLC**  
 5929 SOUTH DOWNS DRIVE - RALEIGH, NC - 27603  
 PHONE: (919) 790-7235 - WEBSITE: WWW.EDWARDSENGINEERING.COM



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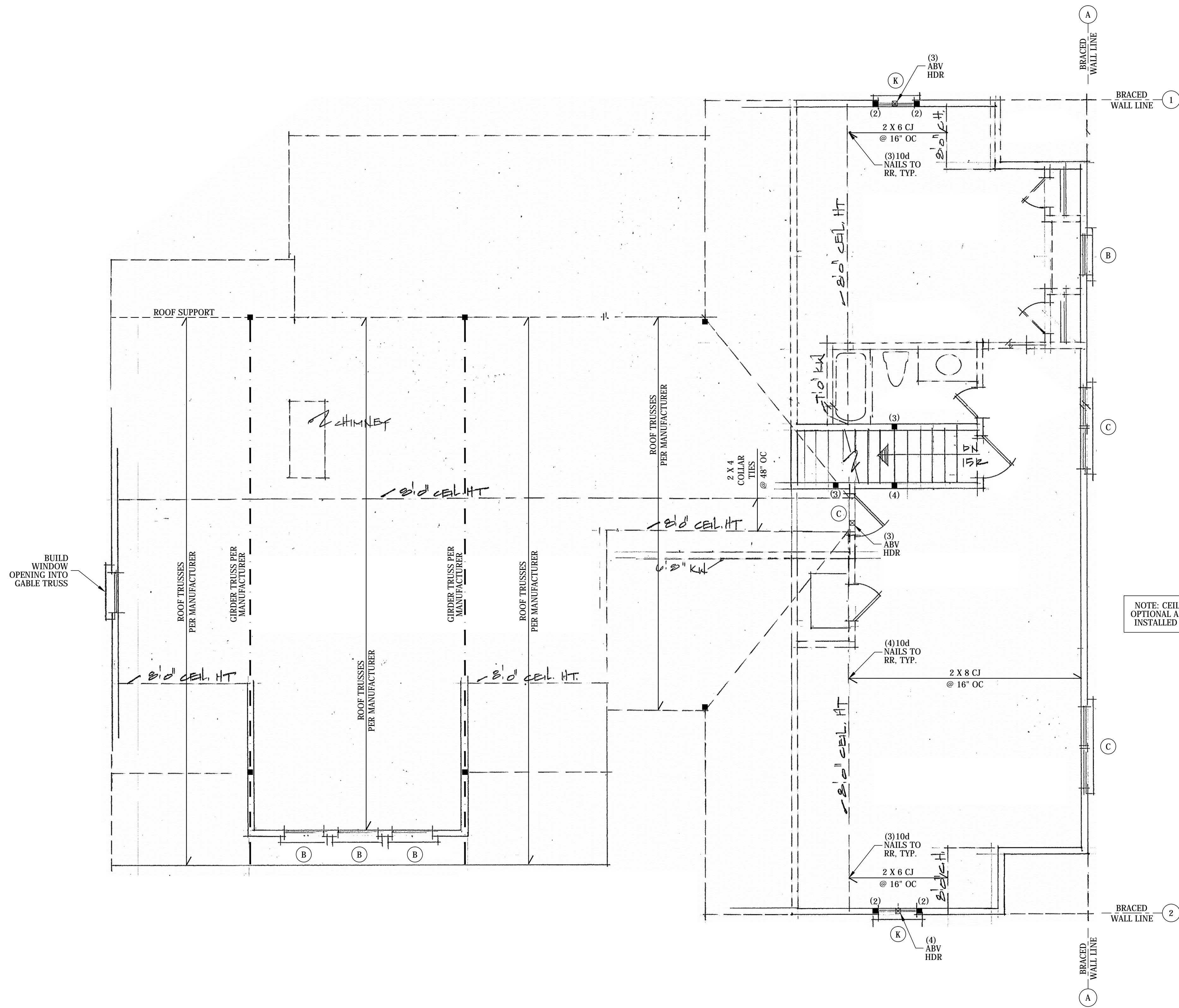
**NICHOL RESIDENCE**  
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 HOLLY SPRINGS, NC 27540

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ARCHITECT/DESIGNER:  
**CIDER HOUSE STUDIOS**  
 PLAN NAME:  
 1853

JOB #: 20100  
 DATE: 11/04/2020  
 DRAWN BY: PSE

**FIRST FLOOR HEADER**  
**2ND FLOOR FRAMING**  
 SHEET:  
**S-2**  
 2 OF 5



**SECOND FLOOR PLAN**

CEILING HEIGHT: 8'-0" UNO  
SCALE: 1/4" = 1'-0"

NOTE: CEILING JOISTS SHOWN ARE OPTIONAL AND NOT REQUIRED TO BE INSTALLED AT UNFINISHED SPACES.

**LEGEND**

■	POINT LOAD REQUIRING SOLID BLOCKING TO FOUNDATION
(#)	NUMBER OF SUPPORT STUDS IN STUD COLUMN (STUD SIZE PER WALL WIDTHS SHOWN ON ARCHITECTURAL PLANS UNO)
▬	LOAD BEARING WALL

**HEADER SCHEDULE**

TAG	HEADER	TAG	HEADER
A	(2) 2 X 6	K	(2) 1.75 X 9.25 LVL
B	(2) 2 X 8	L	(2) 1.75 X 11.875 LVL
C	(2) 2 X 10	M	(2) 1.75 X 14 LVL
D	(2) 2 X 12	N	(2) 1.75 X 16 LVL
E	(3) 2 X 4	P	(2) 1.75 X 18 LVL
F	(3) 2 X 6	R	(2) 1.75 X 9.25 LVL & 2 X 10
G	(3) 2 X 8	S	(3) 1.75 X 9.25 LVL
H	(3) 2 X 10	T	(3) 1.75 X 11.875 LVL
J	(3) 2 X 12	V	(3) 1.75 X 16 LVL

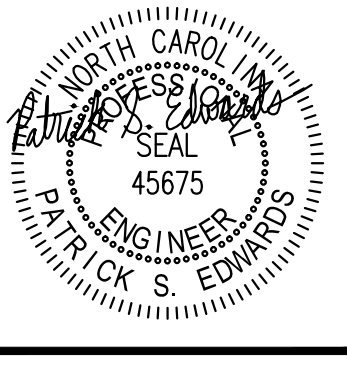
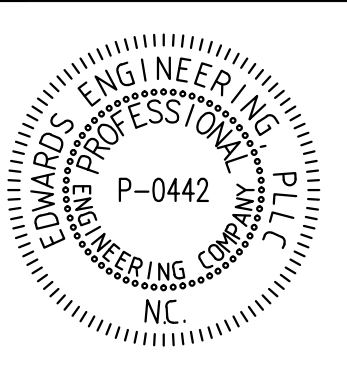
• HEADERS SHALL BE SUPPORTED ON SINGLE JACK STUDS UNLESS NOTED OTHERWISE.  
 • REQUIRED NUMBER OF FULL HEIGHT KING STUDS AT EACH END OF HEADER SHALL BE ONE HALF OF STUDS INTERRUPTED BY A WALL OPENING, OR AS REQUIRED BY NCR TABLE R602.7.5

**WALL BRACING**

BWL	REQ'D.	PROV'D.	METHOD
A	2.7'	32.2'	CS-WSP
1	5.7'	11.0'	CS-WSP
2	5.7'	11.0'	CS-WSP

HOUSE: 2-STORY (2:12 PITCH)  
3'-0" EAVE TO RIDGE

- WALL BRACING NOTES:**
- EXTERIOR WALLS SHALL BE CONTINUOUSLY SHEATHED WITH MINIMUM 3/8" TH WOOD STRUCTURAL PANEL SHEATHING ATTACHED TO FRAMING WITH 8d NAILS @ 6" OC EDGES & 12" OC FIELD WITH ALL SHEATHING EDGES SOLID BLOCKED UNLESS NOTED OTHERWISE.
  - WOOD STRUCTURAL PANELS SHALL CONFORM TO DOC PS1, DOC PS2, OR ANSI/APA PRP 210.
  - INTERIOR SURFACES OF EXTERIOR BRACED WALLS SHALL BE SHEATHED WITH MIN. 1/2" TH GYPSUM WALL BOARD FASTENED PER NCR TABLE R602.10.3(5).
  - WALL CORNERS SHALL BE FRAMED PER NCR FIGURE R602.10.3(5).
  - A MIN. 24" LONG SHEATHING RETURN PANEL SHALL BE PROVIDED ON THE INTERSECTING WALL AT ENDS OF BRACED WALL LINES. WHERE THIS RETURN IS NOT PROVIDED, THE BRACED WALL LINE SHALL HAVE A MIN. 48" LONG PANEL AT THE CORNER, OR A HOLD-DOWN DEVICE RATED FOR MIN. 800 LB. SHALL ATTACH THE EDGE OF THE BRACED WALL PANEL CLOSEST TO THE CORNER TO THE FOUNDATION OR FLOOR FRAMING BELOW.
  - BRACED WALL PANELS SHALL BE CONNECTED TO FLOOR AND CEILING FRAMING PER NCR FIGURES R602.10.4.4(1) & (2).
  - BRACED WALL PANELS SHALL BE CONNECTED TO ROOF FRAMING PER NCR SECTION R602.10.4.5.



SEAL DATE: 11/04/2020

**REVISIONS**

NO.	DATE	DESCRIPTION
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**NICHOL RESIDENCE**  
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HOLLY SPRINGS, NC 27540

ARCHITECT/DESIGNER:  
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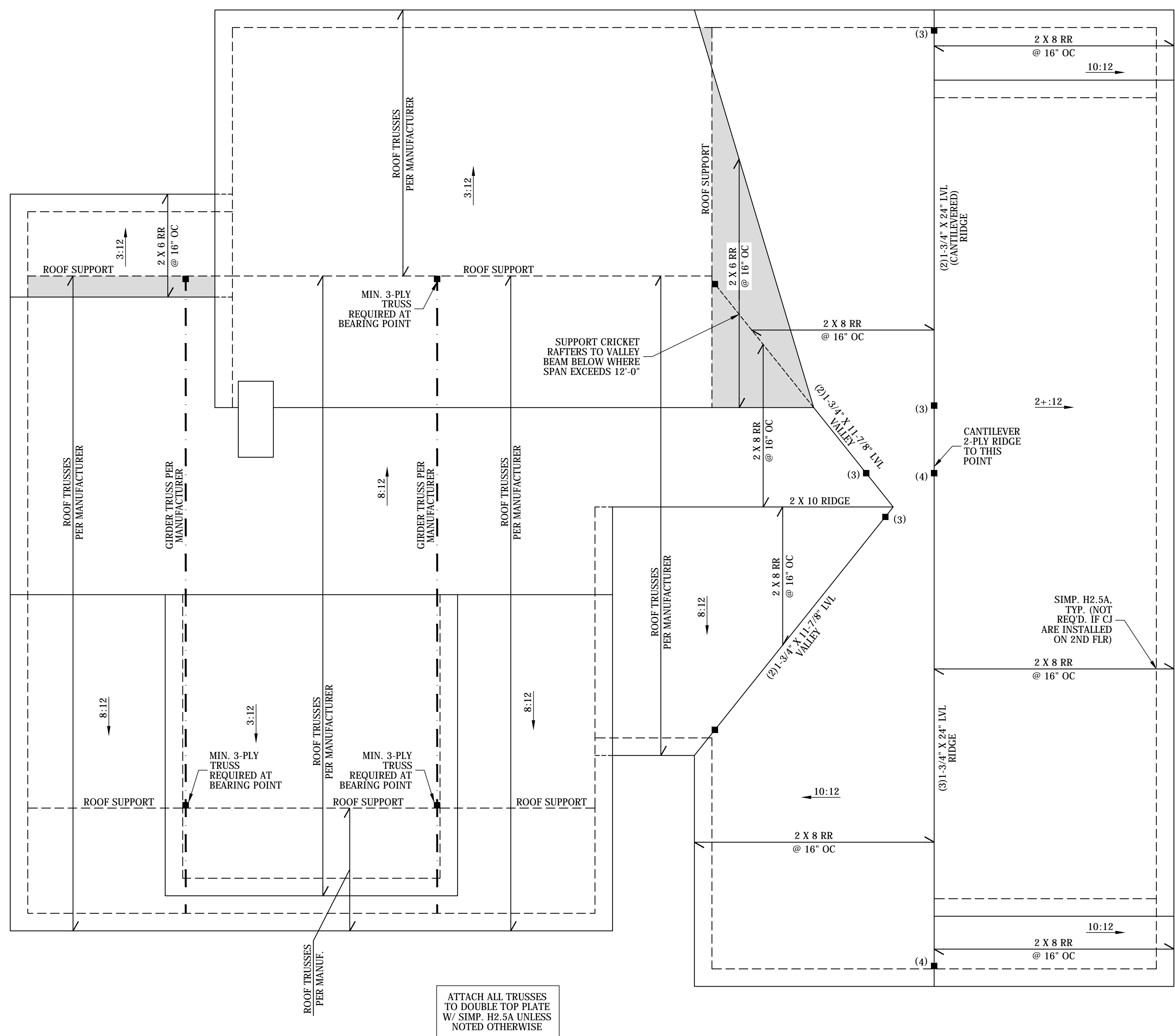
JOB #: 20100  
DATE: 11/04/2020  
DRAWN BY: PSE

2ND FLOOR HEADER  
2ND FLOOR CEILING

SHEET:  
**S-3**

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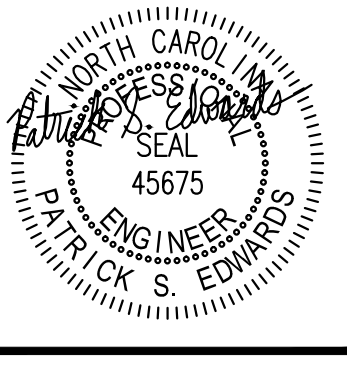
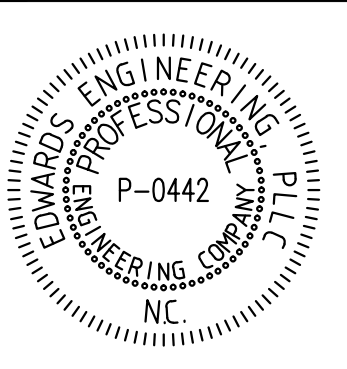
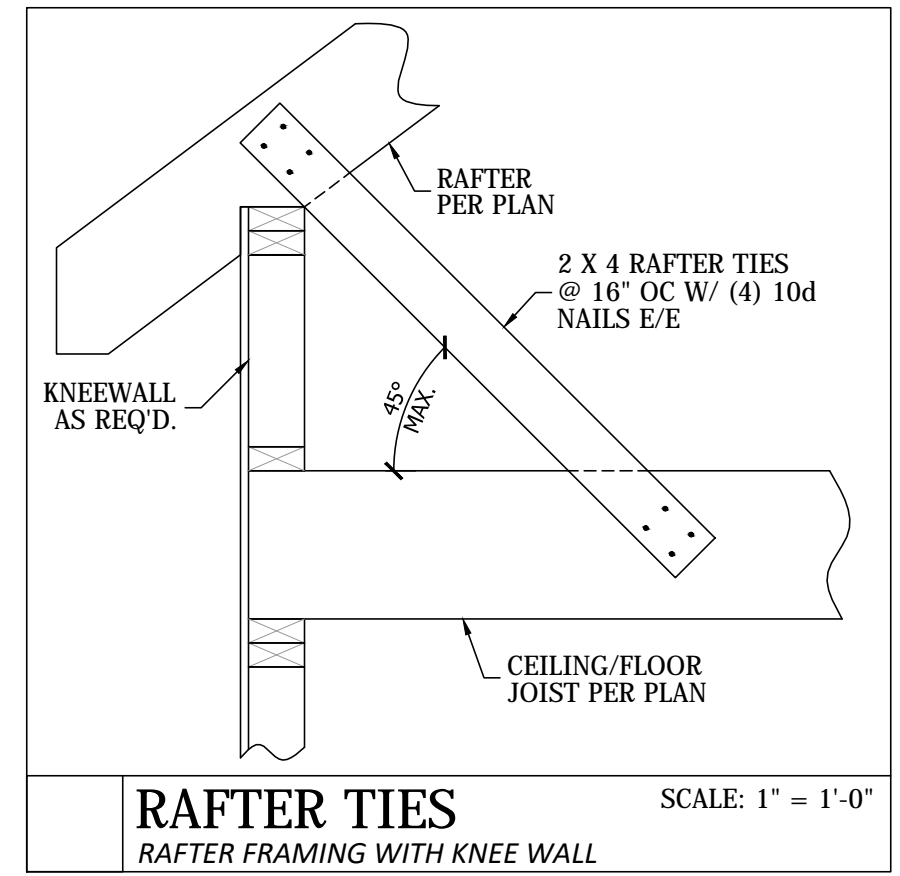
LEGEND	
■	POINT LOAD REQUIRING SOLID BLOCKING TO FOUNDATION
(#)	NUMBER OF SUPPORT STUDS IN STUD COLUMN (STUD SIZE PER WALL WIDTHS SHOWN ON ARCHITECTURAL PLANS UNO)
▨	OVERFRAMED ROOF WITH RAFTERS BEARING ON A 2X FLAT PLATE ON LOW RAFTERS



ATTACH ALL TRUSSES TO DOUBLE TOP PLATE W/ SIMP. H2.5A UNLESS NOTED OTHERWISE

**ROOF PLAN**  
SCALE: 1/4" = 1'-0"

ROOF VENTILATION:	
AREA OF ROOF:	3400 FT <sup>2</sup>
REQUIRED AREA OF VENTILATION: (1 FT <sup>2</sup> OF VENTILATION FOR EVERY 150 FT <sup>2</sup> OF ATTIC SPACE)	22.7 FT <sup>2</sup>
REDUCED AREA OF VENTILATION: (1 FT <sup>2</sup> OF VENTILATION FOR EVERY 300 FT <sup>2</sup> OF ATTIC SPACE)	11.4 FT <sup>2</sup>
REQUIRED AREA OF VENTILATION MAY BE REDUCED TO 1 SQ. FT. OF VENTILATION PER 300 SQ. FT. OF ATTIC SPACE WHERE MIN. 50% AND MAX. 80% OF REQUIRED VENTILATION IS PROVIDED BY VENTILATORS IN THE UPPER PORTION OF VENTED SPACE AT LEAST 3 FT ABOVE EAVE/CORNICE VENTS.	
NOTE: ENCLOSED ATTIC/RAFTER SPACES REQUIRING LESS THAN 1 SQ. FT. OF VENTILATION AND/OR LOCATED OVER UNCONDITIONED SPACE MAY BE VENTED WITH CONTINUOUS SOFFIT VENT ONLY	



SEAL DATE: 11/04/2020

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PLAN NAME:	1853
JOB #:	20100
DATE:	11/04/2020
DRAWN BY:	PSE
<b>ROOF FRAMING PLAN</b>	

SHEET:  
**S-4**  
4 OF 5

**DESIGN CRITERIA:**

**• DESIGN LOADS (PSF):**

USE:	L.L.	D.L.	USE:	L.L.	D.L.
ATTICS W/O STORAGE	10	10	EXTERIOR DECKS/BALCONIES	40	10
ATTICS W/ STORAGE	20	10	PASS. VEHICLE GARAGES	50	50
ATTICS W/ FIXED STAIRS	30	10	GUARDRAILS/HANDRAILS	200	LB
SLEEPING ROOMS	30	10	ROOF (CLG. NOT ATTACHED)	20	10
ALL OTHER ROOMS	40	10	ROOF (CLG. ATTACHED)	20	15
STAIRS	40	5	INTERIOR/EXTERIOR WALLS	--	8/11

- ULTIMATE DESIGN WIND SPEED: 120MPH (EXP. CAT. B)
- DEFLECTION LIMITS:

COMPONENT	DEFLECTION LIMIT
RAFTERS @ 12 SLOPE OR MORE W/O CLG. ATTACHED	L/180
FLOORS & PLASTERED CEILINGS	L/360
FRAMING SUPPORTING MASONRY	L/600
SPANS GREATER THAN 20-FT	L/480
ALL OTHER STRUCTURAL MEMBERS	L/240

**FOUNDATION NOTES:**

1. PROVIDE POSITIVE DRAINAGE AWAY FROM FOUNDATION WALLS. ROOF DRAINAGE SHALL DISCHARGE AT LEAST 5 FEET AWAY FROM FOUNDATION WALLS.
2. ASSUMED SOIL BEARING CAPACITY IS 2,000 PSF. CONTRACTOR IS RESPONSIBLE TO VERIFY SOIL PROPERTIES.
3. CONCRETE MIN. 28-DAY COMPRESSIVE STRENGTH: 3000 PSI
4. FOOTINGS SHALL BEAR A MINIMUM OF 12" BELOW GRADE. SHALL EXTEND BELOW THE FROST LINE AND SHALL BE SUPPORTED ON UNDISTURBED NATURAL SOILS OR ENGINEERED FILL.
5. MIN. FOOTING THICKNESS: 6" FOR 1-STORY, 8" FOR 1 1/2 - 2 1/2 STORY, 10" FOR 3 STORY, MIN. FOOTING PROJECTION IS 2" AND SHALL NOT EXCEED THE THICKNESS OF THE FOOTING IN PLAIN CONCRETE FOOTINGS.
6. FOOTINGS FOR MASONRY FIREPLACES/CHIMNEYS SHALL BE AT LEAST 12" THICK WITH MIN. 12" PROJECTION.
7. MIN. 2 X 4 PRESSURE TREATED SILL PLATE AT EXTERIOR WALLS ANCHORED TO FOUNDATION WITH MIN. 1/2" DIA. ANCHOR BOLTS @ MAX. 6'-0" O.C. AND MAX. 12" FROM CORNERS AND SILL SPLICES. MIN. 7" EMBEDMENT INTO SOLID FILLED MASONRY OR CONCRETE.
8. SLABS ON GRADE SHALL BE MIN. 4" THICK W/ 6 X 6 WWM OR FIBER REINFORCEMENT OVER 6-MIL POLY OVER 4" GRAVEL BASE OVER COMPACTED FILL. REINFORCEMENT SHALL BE PLACED IN THE CENTER OF THE SLAB WHEN USED. CONTROL JOINT LOCATIONS PER CONTRACTOR.
9. FOUNDATION WALLS WITH GREATER THAN 4 FEET OF UNBALANCED FILL SHALL HAVE PERMANENT LATERAL SUPPORT AT THE TOP AND BOTTOM PRIOR TO BACKFILLING. LATERAL SUPPORT PROVIDED BY A SLAB ON GRADE SHALL BE DESIGNED BY THE ENGINEER OF RECORD.
10. LOCATE FOUNDATION VENTS WITHIN 3-FT OF EACH CORNER OF THE BUILDING IN VENTED CRAWL SPACES. TOTAL NUMBER OF VENTS REQUIRED PER SECTION R408.1.1 NCR. DO NOT LOCATE VENTS UNDER POINT LOADS.
11. COVER ALL EXPOSED EARTH IN CRAWL SPACES WITH A MIN. 6-MIL POLYETHYLENE VAPOR RETARDER OR EQUIVALENT
12. PROVIDE A MIN. 22" X 30" ACCESS TO CRAWL SPACE, OR LARGE ENOUGH TO ALLOW REMOVAL OF THE LARGEST APPLIANCE LOCATED IN THE CRAWL SPACE. DO NOT LOCATE ACCESS UNDER POINT LOADS.
13. FOUNDATION WALLS SHALL HAVE A SOLID 8" CAP.
14. MASONRY SHALL BE LAID IN RUNNING BOND AND SHALL USE TYPE M OR S MORTAR W/ 3/4" HEAD AND BED JOINTS. BED JOINTS FOR STARTING COURSES PLACED OVER FOUNDATION SHALL BE MIN. 1/4" AND MAX. 1 1/2".
15. WALL HEIGHT, THICKNESS, BACKFILL, AND REINFORCEMENT PER TABLES R404.1.1 (1-4) NCR.
16. CORBELED MASONRY SHALL MEET THE REQUIREMENTS OF SECTION R606.5.

**DECK NOTES:**

1. WHERE A DECK IS ATTACHED TO A STRUCTURE (EXCEPT WITH BRICK VENEER), THE STRUCTURE SHALL HAVE A TREATED WOOD BAND FOR THE LENGTH OF THE DECK, OR CORROSION-RESISTANT FLASHING SHALL BE USED TO PREVENT MOISTURE FROM COMING INTO CONTACT WITH THE UNTREATED FRAMING OF THE STRUCTURE.
2. GIRDER ATTACHMENT SHALL CONFORM TO ONE OF THE FOLLOWING:
  - a. GIRDER TOP MOUNTED ON POST W/ (2) SIMPSON LCE4Z OR AC6Z POST CAPS (OR EQUIV.). CAPS MAY BE OMITTED AND GIRDER MAY BE ATTACHED W/ (3) 16d TOE NAILS WHERE DECK IS LESS THAN 48" ABOVE GRADE.
  - b. 2-PLY GIRDERS MAY BE SIDE MOUNTED ON ONE OR BOTH SIDES OF POST, OR NOTCHED INTO 6 X 6 OR LARGER POSTS AND ATTACHED WITH (2) 5/8" DIA. HDG BOLTS.
3. DECKING SHALL BE SYP #2 GRADE TREATED OR EQUIVALENT WITH A MINIMUM THICKNESS PER NCR TABLE AM107.1.
4. MAXIMUM HEIGHT OF POSTS IS 8'-0" FOR 4 X 4 POSTS AND 20'-0" FOR 6 X 6 POSTS.
5. LATERAL BRACING IS NOT REQUIRED FOR FREESTANDING DECKS LESS THAN 30" ABOVE GRADE OR FOR ATTACHED DECKS LESS THAN 48" ABOVE GRADE.
6. WHERE LATERAL BRACING IS REQUIRED, BRACING SHALL BE PROVIDED IN TWO DIRECTIONS FOR FREESTANDING DECKS OR ON THE OUTSIDE POSTS PARALLEL TO THE STRUCTURE FOR ATTACHED DECKS USING ONE OF THE FOLLOWING:
  - a. POST EMBEDMENT
    - i. 4 X 4 POSTS: 1'-0" DIA. X 2'-6" DEEP FOOTING (MAX. 4'-0" POST HEIGHT & MAX. 48 SQ. FT. TRIB. AREA).
    - ii. 6 X 6 POSTS: 1'-8" DIA. X 3'-6" DEEP FOOTING (MAX. 6'-0" POST HEIGHT & MAX. 120 SQ. FT. TRIB. AREA).
  - b. KNEE BRACING - MIN. 4 X 4 FT BRACES ATTACHED NOT LESS THAN 1/3 OF THE POST HEIGHT FROM TOP AT AN ANGLE BETWEEN 45 AND 60 DEGREES W/ (1) 5/8" DIA. HDG BOLT EACH END.
  - c. CROSS BRACING - MIN. 2 X 6 PT DIAGONALS ATTACHED EACH END W/ (1) 5/8" DIA. HDG THROUGH BOLT.
7. STAIR STRINGERS SHALL HAVE MINIMUM 3-1/2" DEPTH BETWEEN STEP CUT AND BACK OF STRINGER AND SHALL SPAN A MAXIMUM OF 7'-0" BETWEEN SUPPORTS.
8. GUARDS SHALL BE PROVIDED FOR DECKS EXCEEDING 30" ABOVE GRADE AT ANY POINT WITHIN 36" OF DECK.

**FRAMING NOTES:**

1. ALL FRAMING LUMBER SHALL BE SPF #2 (Fb = 875 PSI, Fv = 135 PSI, E = 1,400,000 PSI), EXCEPT THAT STUDS MAY BE STUD GRADE. TREATED LUMBER SHALL BE SYP #2 (MIN. Fb = 750 PSI, Fv = 175 PSI, E = 1,400,000 PSI).
2. TREATED LUMBER SHALL BE MIN. 2" NOMINAL THICKNESS AND NOT LESS IN DEPTH THAN THE CUT END OF THE RAFTER. REGULARLY SPACED HIP AND VALLEY RAFTERS NEED NOT ALIGN. DO NOT SPLICE VALLEY BEAMS.
3. ROOF SPECS APPLY TO ROOFS WITH MIN. 3:12 PITCH.
4. COLLAR TIES SHALL BE MIN. 1" X 4" (NOMINAL), SPACED MAX. 4-FT O.C. LOCATED IN THE UPPER 1/2 OF ATTIC SPACE.
5. STRUCTURAL ROOF MEMBERS SHALL NOT BE CUT, BORED, OR NOTCHED IN EXCESS OF THE LIMITATIONS SPECIFIED IN SECTION R802.7 NCR.
6. PROVIDE VENTILATION FOR ENCLOSED ATTICS/ RAFTER SPACES FOR EACH ENCLOSED SPACE. MIN. REQUIRED VENTILATION AREA SHALL BE DETERMINED PER SEC. R802.6 NCR. PROVIDE MIN. 1" AIR SPACE BETWEEN INSULATION & ROOF SHEATHING AT ROOF VENT LOCATIONS.
7. ATTICS EXCEEDING 400 SQ. FT. SHALL HAVE A MIN. 20" X 30" ACCESS OR LARGE ENOUGH TO ALLOW REMOVAL OF THE LARGEST APPLIANCE LOCATED IN THE ATTIC.
8. A CRICKET OR SADDLE SHALL BE INSTALLED ON THE RIDGE SIDE OF ANY PENETRATION MORE THAN 30" WIDE AS MEASURED PERPENDICULAR TO THE SLOPE. CRICKETS SHALL BE CONSTRUCTED IN COMPLIANCE WITH FIGURE R1003.20 AND TABLE R1003.20 NCR.
9. PROVIDE RAFTER TIES PER SEC. R802.3.1 WHERE CEILING JOISTS ARE NOT CONNECTED TO RAFTERS AT TOP PLATE.

**WALL BRACING NOTES:**

1. EXTERIOR WALLS SHALL BE CONTINUOUSLY SHEATHED WITH MINIMUM 3/8" TH WOOD STRUCTURAL PANEL SHEATHING ATTACHED TO FRAMING WITH 8d NAILS @ 6" OC EDGES & 12" OC FIELD WITH ALL SHEATHING EDGES SOLID BLOCKED UNLESS NOTED OTHERWISE.
2. WOOD STRUCTURAL PANELS SHALL CONFORM TO DOC P51, DOC P52, OR ANSI/APA PRP 210.
3. INTERIOR SURFACES OF EXTERIOR BRACED WALLS SHALL BE SHEATHED WITH MIN. 1/2" TH GYPSUM WALL BOARD FASTENED PER NCR TABLE R602.10.3(5).
4. WALL CORNERS SHALL BE FRAMED PER NCR FIGURE R602.10.3(5).
5. A MIN. 24" LONG SHEATHING RETURN PANEL SHALL BE PROVIDED ON THE INTERSECTING WALL AT ENDS OF BRACED WALL LINES. WHERE THIS RETURN IS NOT PROVIDED, THE BRACED WALL LINE SHALL HAVE A MIN. 48" LONG PANEL AT THE CORNER, OR A HOLD-DOWN DEVICE RATED FOR MIN. 800 LB. SHALL ATTACH THE EDGE OF THE BRACED WALL PANEL CLOSEST TO THE CORNER TO THE FOUNDATION OR FLOOR FRAMING BELOW.
6. BRACED WALL PANELS SHALL BE CONNECTED TO FLOOR AND CEILING FRAMING PER NCR FIGURES R602.10.4(1) & (2).
7. BRACED WALL PANELS SHALL BE CONNECTED TO ROOF FRAMING PER NCR SECTION R602.10.4.5.

**GENERAL NOTES:**

1. ALL CONSTRUCTION SHALL CONFORM TO LATEST REQUIREMENTS OF THE 2018 NORTH CAROLINA STATE BUILDING CODE: RESIDENTIAL CODE (CAROLINA) AND ANY ADDITIONAL LOCAL REGULATIONS.
2. THE ENGINEER WHOSE SEAL APPEARS ON THESE DRAWINGS IS THE STRUCTURAL ENGINEER OF RECORD (EOR) FOR THIS PROJECT. THE ENGINEER'S SEAL APPLIES ONLY TO STRUCTURAL COMPONENTS. CONTRACTOR IS RESPONSIBLE TO COORDINATE PLUMBING, MECHANICAL, AND ELECTRICAL COMPONENTS PRIOR TO FRAMING. NO OTHER PARTY SHALL MODIFY OR REUSE THESE DRAWINGS WITHOUT WRITTEN APPROVAL FROM THE EOR.
3. ONLY SEALED DRAWINGS WITH THE LATEST REVISION DATE ARE APPLICABLE FOR CONSTRUCTION.
4. DO NOT SCALE DRAWINGS OR DETAILS. CONTACT ENGINEER OR DESIGNER FOR ANY DIMENSIONS NOT SHOWN ON PLANS. WRITTEN DIMENSIONS OVERRULE SCALED/DEPICTED DIMS.
5. THE ENGINEER ASSUMES NO LIABILITY FOR CONSTRUCTION METHODS OR QUALITY. DEVIATIONS OR OMISSIONS FROM PLANS, OR FAILURE TO MEET THE REQUIREMENTS OF THE NCR OR THE PROVIDED STRUCTURAL PLANS, THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY STRUCTURAL DISCREPANCIES THAT ARE IDENTIFIED.

**TRUSS NOTES:**

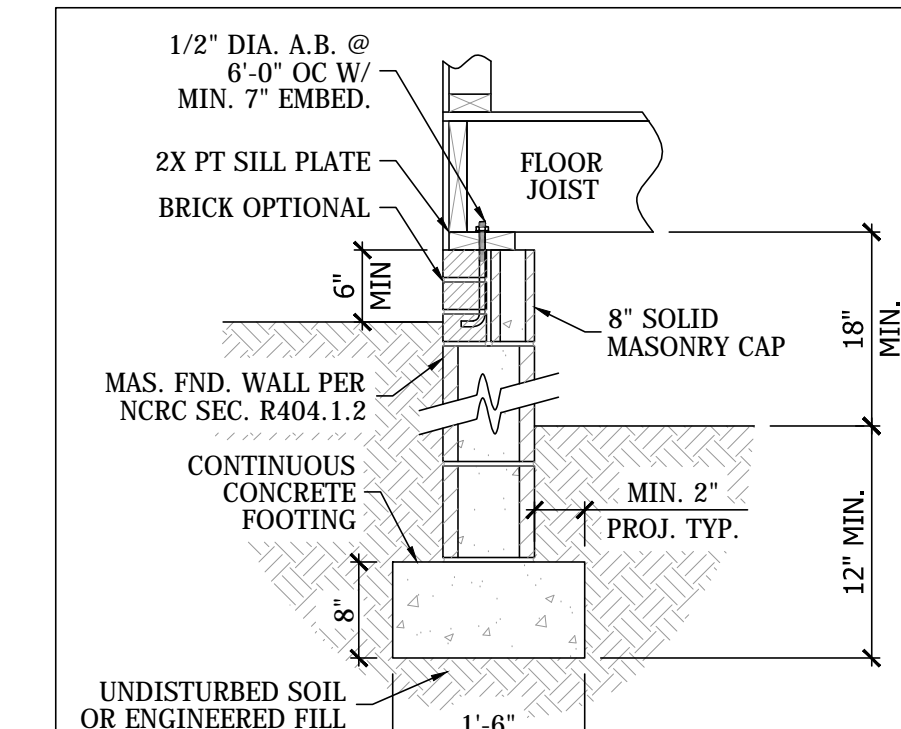
1. TRUSS LAYOUTS PROVIDED BY OTHERS SHALL COINCIDE WITH THE INFORMATION SHOWN ON THIS PLAN REGARDING TRUSS ORIENTATION, SUPPORT LOCATIONS, AND LENGTH OF SPANS. ENGINEER SHALL REVIEW FINAL TRUSS DRAWINGS PRIOR TO CONSTRUCTION. CONTACT ENGINEER IMMEDIATELY SHOULD ANY DISCREPANCIES BETWEEN STRUCTURAL PLANS AND TRUSS DRAWINGS BECOME APPARENT.
2. TRUSS DESIGN DRAWINGS SHALL BE SEALED BY THE TRUSS MANUFACTURER.
3. METAL-PLATE-CONNECTED WOOD TRUSSES SHALL BE DESIGNED & MANUFACTURED TO COMPLY WITH ANSI/TP1.
4. TRUSSES SHALL BE BRACED IN ACCORDANCE WITH THE BUILDING COMPONENT SAFETY INFORMATION (BCSI 1-03) GUIDE TO GOOD PRACTICE FOR HANDLING, INSTALLING, & BRACING OF METAL-PLATE-CONNECTED WOOD TRUSSES.
5. REFER TO "BCSI-B3 SUMMARY SHEET - PERMANENT RESTRAINT/BRACING OF CHORDS & WEB MEMBERS" FOR SUMMARY OF REQUIRED PERMANENT BRACING OF TRUSSES.

**ROOF NOTES:**

1. RAFTERS SHALL BE FRAMED TO A RIDGE BOARD MIN. 1" NOMINAL THICKNESS AND NOT LESS IN DEPTH THAN THE CUT END OF THE RAFTER. OPPOSING RAFTERS AT THE RIDGE MUST ALIGN WITHIN THE RIDGE MEMBER THICKNESS.
2. HIP RAFTERS SHALL BE MIN. 2" NOMINAL THICKNESS AND NOT LESS IN DEPTH THAN THE CUT END OF THE RAFTER. REGULARLY SPACED HIP AND VALLEY RAFTERS NEED NOT ALIGN. DO NOT SPLICE VALLEY BEAMS.
3. ROOF SPECS APPLY TO ROOFS WITH MIN. 3:12 PITCH.
4. COLLAR TIES SHALL BE MIN. 1" X 4" (NOMINAL), SPACED MAX. 4-FT O.C. LOCATED IN THE UPPER 1/2 OF ATTIC SPACE.
5. STRUCTURAL ROOF MEMBERS SHALL NOT BE CUT, BORED, OR NOTCHED IN EXCESS OF THE LIMITATIONS SPECIFIED IN SECTION R802.7 NCR.
6. PROVIDE VENTILATION FOR ENCLOSED ATTICS/ RAFTER SPACES FOR EACH ENCLOSED SPACE. MIN. REQUIRED VENTILATION AREA SHALL BE DETERMINED PER SEC. R802.6 NCR. PROVIDE MIN. 1" AIR SPACE BETWEEN INSULATION & ROOF SHEATHING AT ROOF VENT LOCATIONS.
7. ATTICS EXCEEDING 400 SQ. FT. SHALL HAVE A MIN. 20" X 30" ACCESS OR LARGE ENOUGH TO ALLOW REMOVAL OF THE LARGEST APPLIANCE LOCATED IN THE ATTIC.
8. A CRICKET OR SADDLE SHALL BE INSTALLED ON THE RIDGE SIDE OF ANY PENETRATION MORE THAN 30" WIDE AS MEASURED PERPENDICULAR TO THE SLOPE. CRICKETS SHALL BE CONSTRUCTED IN COMPLIANCE WITH FIGURE R1003.20 AND TABLE R1003.20 NCR.
9. PROVIDE RAFTER TIES PER SEC. R802.3.1 WHERE CEILING JOISTS ARE NOT CONNECTED TO RAFTERS AT TOP PLATE.

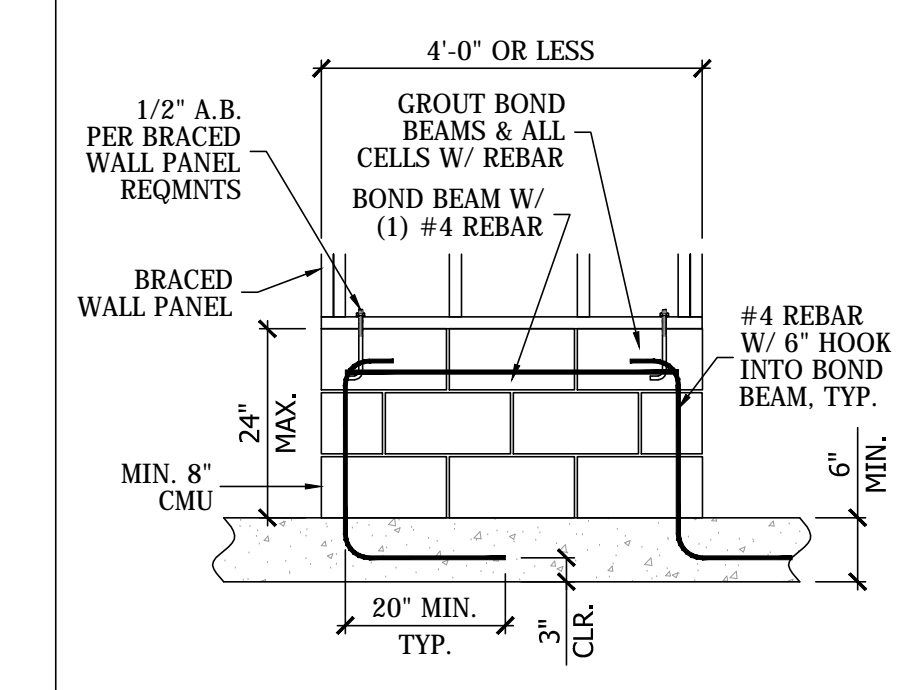
**ABBREVIATIONS**

A.B.	ANCHOR BOLT	MAX.	MAXIMUM
ABV.	ABOVE	MIN.	MINIMUM
ADDL.	ADDITIONAL	MISC.	MISCELLANEOUS
BLDR.	BUILDER	M.O.	MASONRY OPENING
BRG.	BEARING	MONO.	MONOLITHIC
B/T	BETWEEN	NO.	NUMBER
BTM.	BOTTOM	N.T.S.	NOT TO SCALE
CANT.	CANTILEVER	OC	ON CENTER
CJ	CEILING JOIST	O.D.	OUTSIDE DIAMETER
CLG.	CEILING	O.H.	OVERHANG
CLR.	CLEAR	OPP.	OPPOSING
CMU	CONCRETE MASONRY	OPT.	OPTION(AL)
CMU	UNIT	OSB	ORIENTED STRAND BOARD
COL.	COLUMN	PDS	PULL DOWN STAIRS
CONC.	CONCRETE	PL	PLATE
CONT.	CONTINUOUS	PRELIM.	PRELIMINARY
DIA.	DIAMETER	PROJ.	PROJECTION
DIM.	DIMENSION	PS	POUNDS PER
DIST.	DISTANCE	PSI	SQUARE INCH
DJ	DOUBLE JOIST	PSF	POUNDS PER
DN.	DOWN	PT	SQUARE FOOT
DR	DOUBLE RAFTER	PF	PRESSURE TREATED
DTL.	DETAIL	QTY.	QUANTITY
E/A	EACH	RAD.	RADIUS
E/E	EACH END	REINF.	REINFORCE(ING)
EQ.	EQUAL	REQD.	REQUIRED
EXST.	EXISTING	RET.	RETAINING
FJ	FLOOR JOIST	REV.	REVISION OR REVERSE
FND.	FOUNDATION	R.O.	ROUGH OPENING
FLR.	FLOOR	RR	ROOF RAFTER
FRMG.	FRAMING	RS	ROOF SUPPORT
FT.	FEET/FOOT	SCHED.	SCHEDULE
FTG.	FOOTING	SEC.	SECTION
GA.	GAUGE	SIM.	SIMILAR
GALV.	GALVANIZED	SLBB	SHORT LEG BACK
GYP.	GYPSUM	TO BACK	
HDG	GALVANIZED	SPEC.	SPECIFICATION(S)
HDR.	HEADER	SPF	SPRUCE PINE FIR
HORIZ.	HORIZONTAL	SQ.	SQUARE
HT.	HEIGHT	STD.	STANDARD
I.D.	INSIDE DIAMETER	STL.	STEEL
IN.	INCH	STRUT.	STRUCTURAL
INT.	INTERIOR	SYP	SOUTHERN YELLOW
JST.	JOIST	THICKNESS	
LB.	POUND	TR	TRIPLE RAFTER
LLB	LONG LEG BACK	TYP.	TYPICAL
LLB	TO BACK	UNO.	UNLESS NOTED
LLH	LONG LEG HORIZONTAL	VERT.	VERTICAL
LLV	LONG LEG VERTICAL	W/O	WITHOUT
LVL	LAMINATED VENEER	WT.	WEIGHT
LUMBER	LUMBER	WWF	WELDED WIRE FABRIC
MFR.	MANUFACTURER		
MAS.	MASONRY		
MATL.	MATERIAL		



**A TYP. CRAWL FND.** SCALE: 3/4" = 1'-0"  
CRAWL SPACE W/ MAS. FND. WALL (SIDING)

NOTE: 5/8" DIA. THREADED RODS W/ 2" SQ. CUT WASHERS MAY BE SUBSTITUTED FOR ANCHOR BOLTS & REBAR (MIN. 8" TH. FTG.)



**B TYP. GARAGE FND.** SCALE: 3/4" = 1'-0"  
GARAGE FND. W/ CONC. SLAB AT EXTERIOR WALL

NOTE: 5/8" DIA. THREADED RODS W/ 2" SQ. CUT WASHERS MAY BE SUBSTITUTED FOR ANCHOR BOLTS & REBAR (MIN. 8" TH. FTG.)

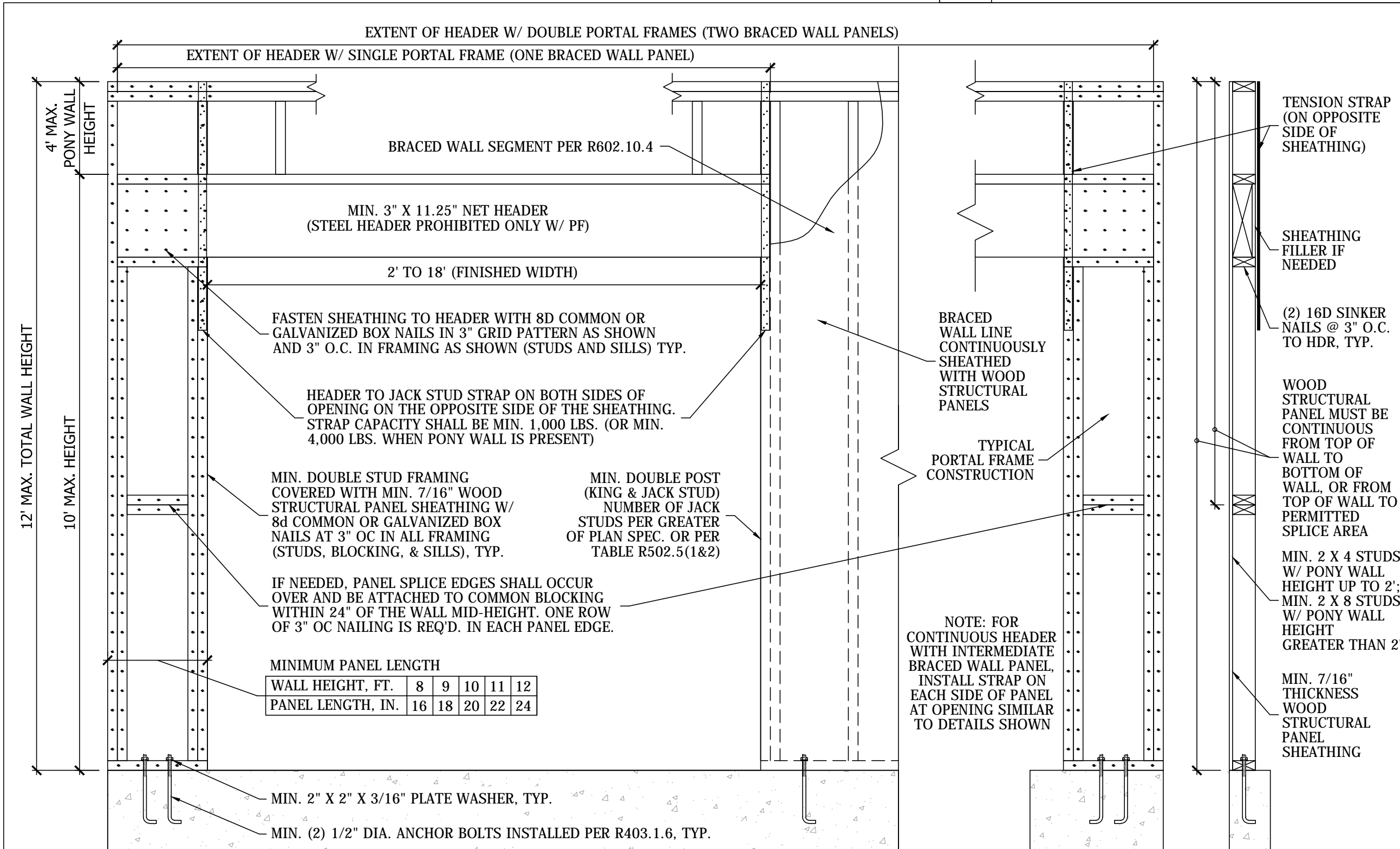
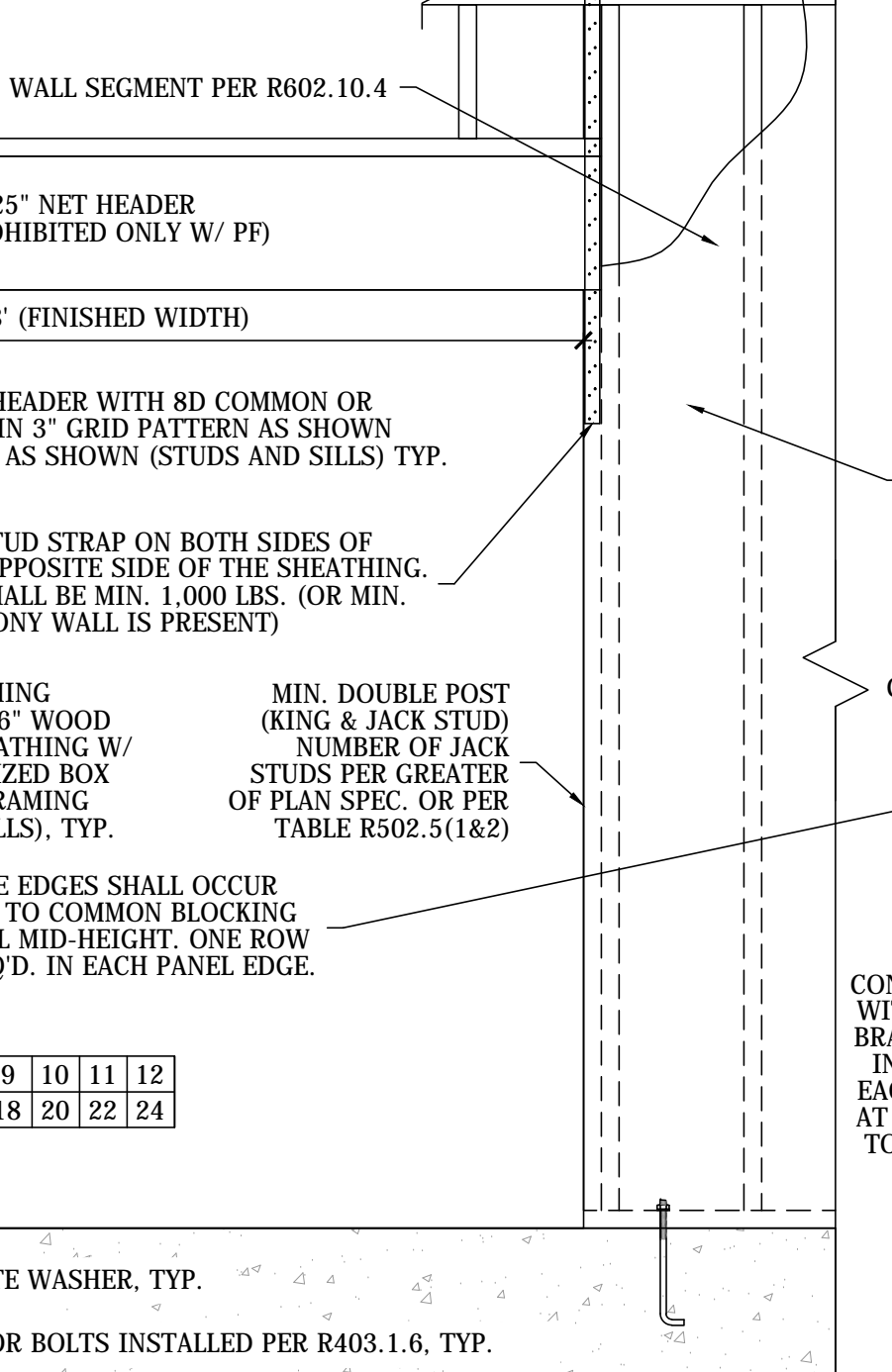
**C MAS. STEM WALL** SCALE: 1/2" = 1'-0"  
SHORT STEM WALL REINF. FOR BRACED WALL SUPPORT



**C MAS. STEM WALL** SCALE: 1/2" = 1'-0"  
TALL STEM WALL REINF. FOR BRACED WALL SUPPORT

FASTENERS	DECK JOIST SPAN	
	8'-0" MAX.	16'-0" MAX.
5/8" DIA. HDG THROUGH BOLT	42" OC	20" OC
12d HDG NAILS	(2) @ 8" OC	(3) @ 6" OC

**D DECK ATTACHMENT** SCALE: 1 1/2" = 1'-0"  
BAND ATTACHMENT TO STRUCTURE



**Z CONTINUOUS PORTAL FRAME PANEL CONSTRUCTION** SCALE: 3/4" = 1'-0"  
METHOD CS-PF OVER CONCRETE OR MASONRY BLOCK FOUNDATION (FIGURE R602.10.4.1.1 NCR)

SEAL DATE: 11/04/2020

**REVISIONS**

NO.	DATE	DESCRIPTION
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ARCHITECT/DESIGNER:  
CIDDER HOUSE STUDIOS  
PLAN NAME:  
1853

JOB #: 20100  
DATE: 11/04/2020  
DRAWN BY: PSE

NOTES & DETAILS

SHEET:  
**S-5**