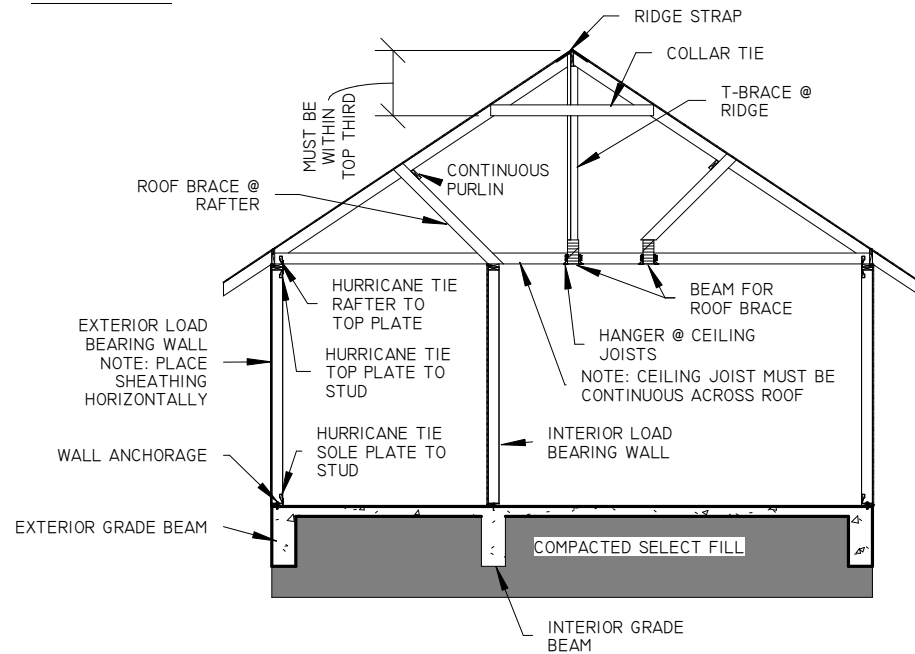
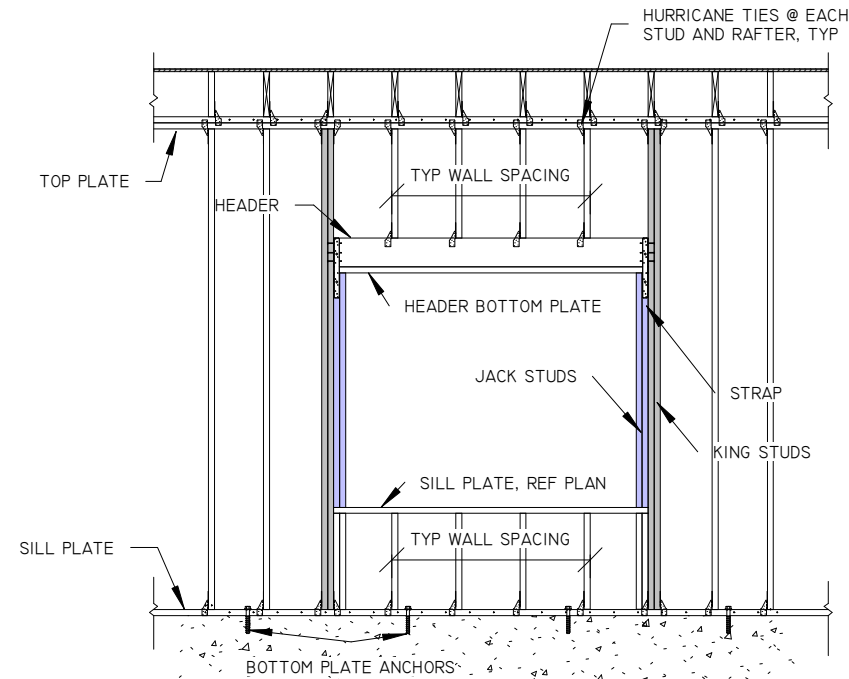


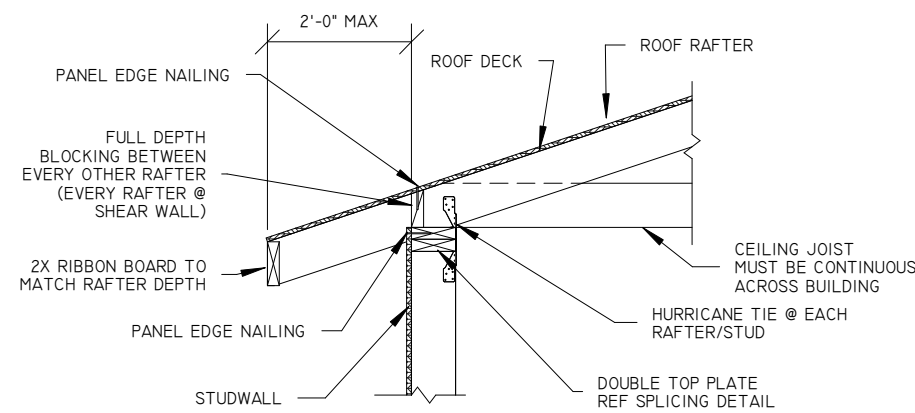
**DETAILS**



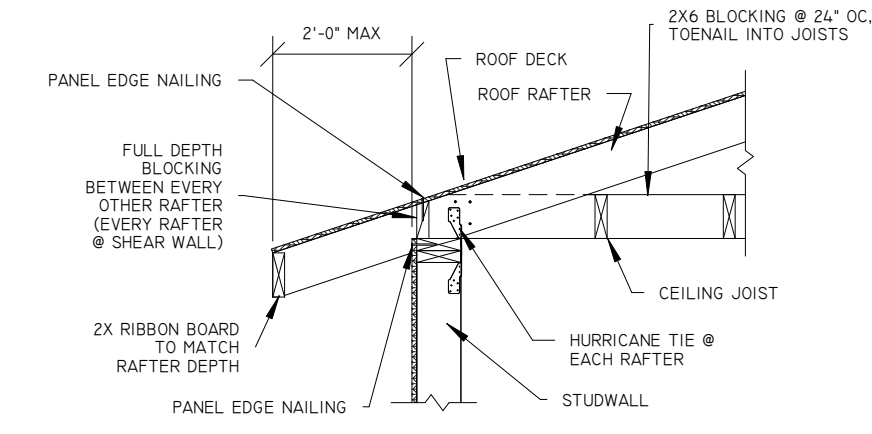
① WOOD GRAVITY SYSTEM - 1 STORY  
1/8" = 1'-0"



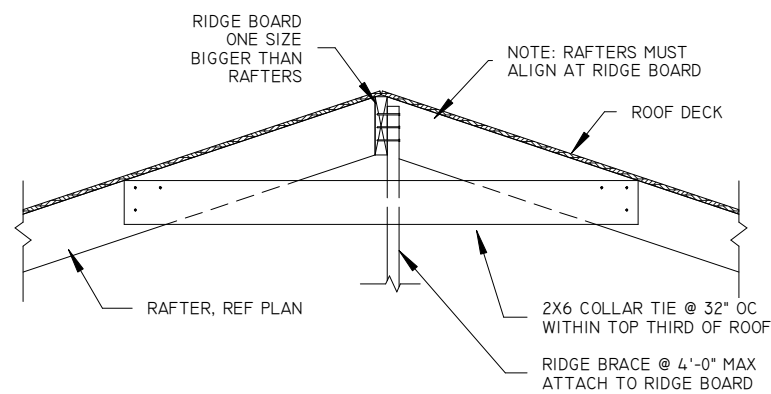
② TYPICAL EXTERIOR HEADER ELEVATION  
1/4" = 1'-0"



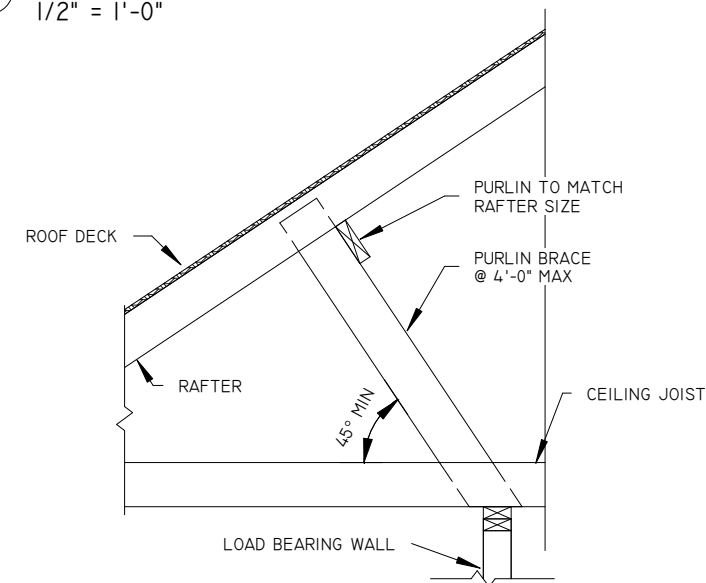
③ CONVENTIONAL ROOF EAVE - CEILING JOIST PARALLEL  
1/2" = 1'-0"



④ CONVENTIONAL ROOF EAVE - CEILING JOIST PERPENDICULAR  
1/2" = 1'-0"



⑤ DETAIL AT ROOF RIDGE BOARD  
1/2" = 1'-0"



⑥ TYPICAL PURLIN/BRACE DETAIL  
1/2" = 1'-0"

**NOTES**

1. BUILDING CODE: INTERNATIONAL BUILDING CODE (IBC), 2024 EDITION
2. DEAD LOAD: DEAD LOADS ARE BASED ON THE ASSUMPTIONS BELOW, WITH AN AVERAGE NOT TO EXCEED 15 PSF FOR COMBINED ROOF, CEILING, EXTERIOR WALLS, FLOORS, AND PARTITIONS.
  - A. ROOF ASSEMBLY - 10 PSF
3. LIVE LOAD:
  - A. UNINHABITED ATTICS WITHOUT STORAGE - 10 PSF
  - B. UNINHABITED ATTICS WITH STORAGE - 20 PSF
  - C. HABITABLE ATTICS AND SLEEPING AREAS - 30 PSF
  - D. ALL OTHER AREAS EXCEPT STAIRS - 40 PSF
  - E. PRIVATE ROOMS AND CORRIDORS SERVING THEM - 40 PSF
4. ROOF LIVE LOAD:
  - A. ORDINARY FLAT, PITCHED, AND CURVED ROOFS - 20 PSF
5. TIMBER SHALL CONFORM TO THE NATIONAL DESIGN SPECIFICATIONS FOR LUMBER AND FASTENERS.
6. SAWN LUMBER SHALL BE GRADED BY NLGA, SPIB, WWPA, OR WCLIB GRADING AGENCIES.
7. PLYWOOD SHALL CONFORM TO APA REQUIREMENTS.
8. ALL MATERIALS MUST BE GRADE MARKED.
9. STRUCTURAL MEMBER GRADE REQUIREMENTS (UNLESS OTHERWISE NOTED ON PLAN):
  - A. JOISTS AND RAFTERS - NO. 2 GRADE SOUTHERN YELLOW PINE
  - B. BEAMS/TIMBERS 5" AND WIDER - NO. 2 GRADE SOUTHERN YELLOW PINE
  - C. POSTS - NO. 2 GRADE SOUTHERN YELLOW PINE
  - D. PLATES - NO. 3 GRADE SOUTHERN YELLOW PINE
  - E. BLOCKING - NO. 3 GRADE SOUTHERN YELLOW PINE
  - F. GLULAM BEAMS - SOUTHERN YELLOW PINE OR DOUGLAS FIR 3000FB, 2.1E, 300FV
  - G. LSL COLUMNS AND BEAMS - 1.3E
  - H. LVL BEAMS - 2.0E
  - I. PSL COLUMNS - 1.8E
  - J. PSL BEAMS - 2.0E
10. ALL LUMBER SHALL BE KILN-DRIED WITH A MAXIMUM MOISTURE CONTENT OF 19%.
11. ALL WOOD IN CONTACT WITH CONCRETE OR EXPOSED TO WEATHER SHALL BE TREATED WITH PRESERVATIVES.

**COMMENTARY**

1. WALLS
  - A. TYPICAL EXTERIOR/INTERIOR WALL IS A 2X6 STUD WALL @ 16" OC.
  - B. BLOCKING IS REQUIRED AT PANEL EDGES.
  - C. NAILING SHALL BE STAGGERED AT 3" SPACING OR LESS.
  - D. PANELS SHALL BE RATED SHEATHING EXPOSURE 1 GRADE WOOD STRUCTURAL PANELS (WSP, PLYWOOD OR OSB).
  - E. INSTALL ALL ANCHORS PER MANUFACTURER'S DIRECTIONS.
2. CEILINGS
  - A. FRAMER SHALL LIMIT MAXIMUM UNBRACED RAFTER SPANS TO 11'-0".
  - B. PURLINS SHALL MATCH THE SIZE OF THE RAFTERS.
  - C. CEILING SHALL BE 1/2" MIN SAG RESISTANCE GYPSUM BOARD PANELS.
  - D. CEILING PANEL FASTENERS SHALL BE SPACED AT 12" OC AND SHALL PENETRATE 5/8" MIN INTO FRAMING.
3. ROOFS
  - A. ROOF DECK SHALL BE APA RATED EXPOSURE 1 WOOD STRUCTURAL PANELS (WSP, PLYWOOD OR OSB).
  - B. PANELS SHALL SPAN 3 RAFTERS MINIMUM IN THE LONG DIRECTION.
  - C. DECKING SHALL HAVE PANEL CLIPS LOCATED MIDWAY BETWEEN EACH PANEL SUPPORT.
  - D. DECK SHALL BE ATTACHED W/ 10d NAILS @ 6" OC AT PANEL EDGES AND 12" OC IN FIELD.



03 STRUCTURAL STUDIO  
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TYPICAL DETAILS

PROJECT NUMBER 00-000

DATE 04/10/2025

DRAWN BY 03

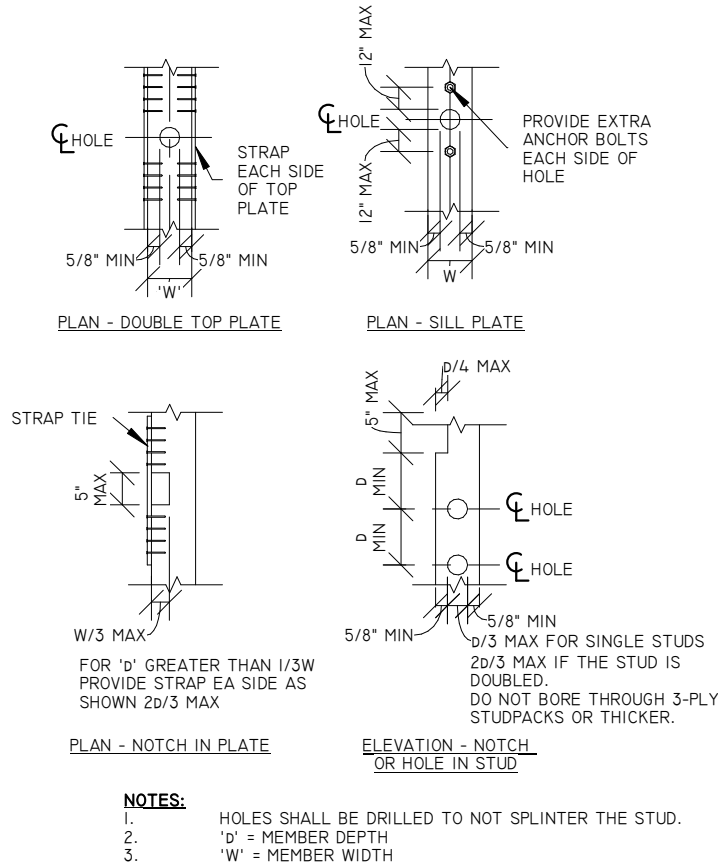
CHECKED BY 03

**S2.0**

MINIMUM WOOD FRAMING STANDARDS

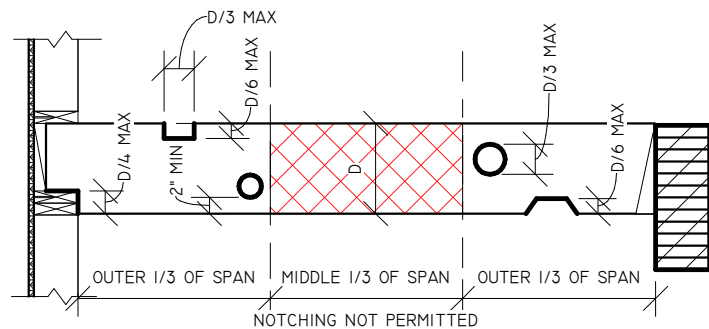
# DETAILS

NAILING SCHEDULE		
CONNECTION TYPE	FASTENING	FASTENING TYPE
1. JOIST TO SILL OR GIRDER	(3) 8d COMMON (0.131"Ø) X 3"	TOENAIL
2. BRIDGING TO JOIST	(2) 8d COMMON (0.131"Ø) X 3"	TOENAIL EACH END
3. SILL PLATE TO JOIST OR BLOCKING	16d COMMON (0.148"Ø) X 3-1/2" @ 12" OC	TOENAIL
4. TOP PLATE TO STUD	(2) 16d COMMON (0.148"Ø) X 3-1/2" (3) 8d COMMON (0.131"Ø) X 3"	END NAIL
5. STUD TO SILL PLATE	(2) 16d COMMON (0.148"Ø) X 3-1/2" (4) 8d COMMON (0.131"Ø) X 3"	END NAIL TOENAIL
6. DOUBLE TOP PLATES	16d COMMON (0.148"Ø) X 3-1/2" @ 16" OC 8d COMMON (0.131"Ø) X 3" @ 12" OC	FACE NAIL
7. BLOCKING BETWEEN JOISTS OR RAFTER TO TOP PLATE	(3) 8d COMMON (0.131"Ø) X 3"	TOENAIL
8. RIM JOIST TO TOP PLATE	8d COMMON (0.131"Ø) X 3" @ 6" OC	TOENAIL
9. CEILING JOIST TO TOP PLATE	(5) 8d COMMON (0.131"Ø) X 3"	TOENAIL
10. CEILING JOIST LAPS OVER PARTITIONS	(3) 16d COMMON (0.148"Ø) X 3-1/2" (4) 8d COMMON (0.131"Ø) X 3"	FACE NAIL
11. CEILING JOIST TO PARALLEL RAFTERS	(3) 16d COMMON (0.148"Ø) X 3-1/2" (4) 8d COMMON (0.131"Ø) X 3"	FACE NAIL
12. RAFTER TO PLATE	(3) 8d COMMON (0.131"Ø) X 3"	TOENAIL
13. COLLAR TIE TO RAFTER	(4) 8d COMMON (0.131"Ø) X 3"	FACE NAIL
14. JACK RAFTER TO HIP	(3) 16d COMMON (0.148"Ø) X 3-1/2" (4) 8d COMMON (0.131"Ø) X 3"	FACE NAIL OR TOENAIL
15. RAFTER TO RIDGE BOARD/BEAM	(3) 16d COMMON (0.148"Ø) X 3-1/2" (4) 8d COMMON (0.131"Ø) X 3"	FACE NAIL OR TOENAIL
15. BUILT-UP CORNER STUDS	(2) 16d COMMON (0.148"Ø) X 3-1/2" (3) 8d COMMON (0.131"Ø) X 3"	FACE NAIL
16. BLOCKING BETWEEN STUDS	(3) 8d COMMON (0.131"Ø) X 3" EACH SIDE	TOENAIL
17. BUILT-UP STUDS	8d COMMON (0.131"Ø) X 3" @ 6" OC, 2-PLY 8d COMMON (0.131"Ø) X 4" @ 6" OC, 4-PLY	FACENAIL, STAGGERED

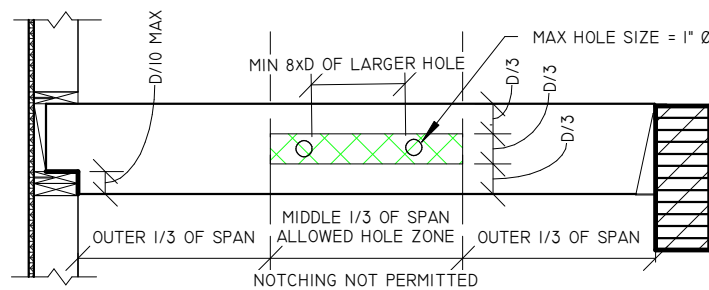


## 2 STUD NOTCHES AND HOLE GUIDELINES 1/2" = 1'-0"

## 1 WOOD FASTENING SCHEDULE 3/4" = 1'-0"

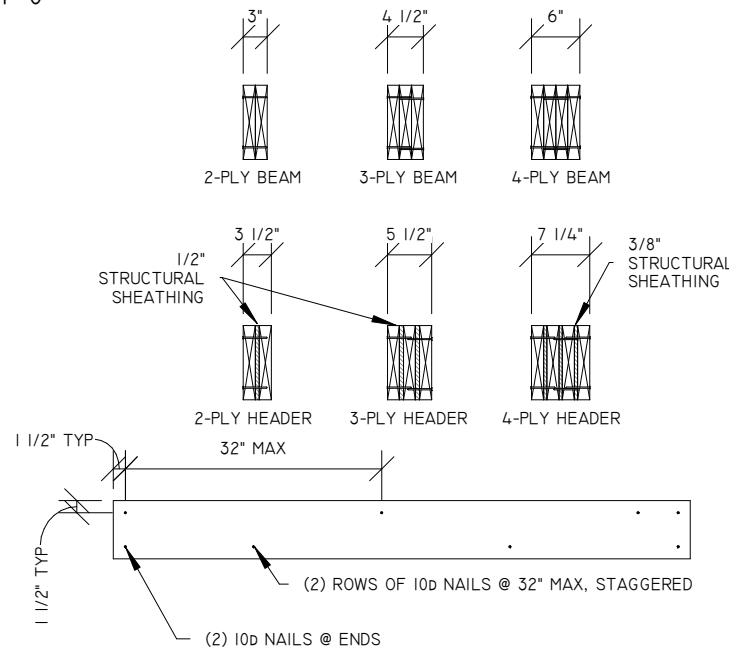


BEAM SIZE	D/3	D/4	D/6
2X4	1-1/8"	7/8"	5/8"
2X6	1-7/8"	1-3/8"	7/8"
2X8	2-3/8"	1-7/8"	1-1/4"
2X10	3-1/8"	2-3/8"	1-1/2"
2X12	3-3/4"	2-7/8"	1-7/8"



**NOTES:**  
1. HOLES SHALL BE DRILLED TO NOT TO SPLINTER THE BEAM. NO OVERCUTS  
2. 'd' = MEMBER DEPTH  
3. ROUND HOLES ONLY  
4. NO HOLES IN CANTILEVERS OR HEADERS OR BEAMS IN PLANK ORIENTATION  
5. **NOTE: DO NOT CUT, NOTCH, OR DRILL HOLES IN HEADERS OR BEAMS EXCEPT AS INDICATED IN THE DETAIL**

## 4 TYPICAL BUILT-UP/SISTERED BEAMS AND HEADERS 1/2" = 1'-0"



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CHECKED BY 03

# S2.1

MINIMUM WOOD FRAMING STANDARDS

## 3 NOTCHING WOOD BEAMS 1/2" = 1'-0"