

CODE CRITERIA:

THE CONTRACTOR/MANUFACTURER SHALL COMPLY WITH THE FOLLOWING CODES AND ALL APPLICABLE AMENDMENTS/SUPPLEMENTS:

- 1. INTERNATIONAL BUILDING CODE, 2015

5. STRUCTURES ARE DESIGNED FOR LOCATIONS THAT HAVE A 3 SECOND WIND GUST OF 150 MPH (MAX). STRUCTURES SHOULD NOT BE USED IN OTHER LOCATIONS.

6. STRUCTURES ARE DESIGNED FOR LOCATIONS WITH A SURFACE ROUGHNESS CATEGORY B AND A TOPOGRAPHICAL FACTOR OF 1.0. STRUCTURES SHOULD NOT BE USED IN OTHER LOCATIONS.

7. STRUCTURES SHOULD HAVE METAL ROOF OR OPTIONAL 25 YEAR RATED FIBERGLASS/ASPHALT SHINGLES WITH 1 LAYER OF 15 LB ROOFING FELT.

8. ALL STUDS, RAFTERS, COLLAR TIES, AND TRUSS CHORDS ARE SPF #2, U.N.O.

9. ALL EXTERIOR DIMENSIONAL WOOD IS TO BE PRESSURE TREATED.

10. ALL ROOF DECKING IS TO BE 7/16" O.S.B.

11. ALL SIDING IS TO BE 19/32 T-111 OR DURATEMP SIDING W/ 50 YR LTD MFG WARRANTY.

12. ALL FLOOR JOISTS ARE TO BE P.T. SYP #2.

13. ALL EXTERIOR NAILS ARE TO BE HOT DIPPED GALVANIZED.

14. ALL INTERIOR FLOOR DECKING IS TO BE 5/8" PLYWOOD. EXTERIOR TO BE 5/4" P.T.

15. ALL SKIDS ARE TO BE 4x6 P.T. SYP, RATED FOR GROUND CONTACT.

16. THE STRUCTURE HAS BEEN DESIGNED TO RESIST LOADS AS A COMPLETED STRUCTURE ONLY. APPLICATION OF CONSTRUCTION LOADS TO THE PARTIALLY COMPLETED STRUCTURE SHALL BE CONSIDERED BY THE CONTRACTOR AND INCLUDED IN THE DESIGN OF SHORING, BRACING, FORM WORK, AND OTHER SUPPORTING ELEMENTS PROVIDED FOR CONSTRUCTION OF THE STRUCTURE.

17. NO FIELD SUPERVISION OR CONSTRUCTION ADMINISTRATION WILL BE PROVIDED BY THE ENGINEER.

DESIGN CRITERIA:

1. INTERNATIONAL BUILDING CODE 2015

2. DEAD LOADS:
FLOOR: 10 PSF
LOFT: 5 PSF
ROOF: 10 PSF

3. LIVE LOADS:
FLOOR: 40 PSF
LOFT: 10 PSF
ROOF: 20 PSF (REDUCIBLE)

4. SNOW LOADS:
GROUND SNOW LOAD, Pg=25psf
FLAT ROOF SNOW LOAD, Pf=20psf
SNOW EXPOSURE FACTOR, Ce=1.2
SNOW LOAD IMPORTANCE FACTOR, I=0.8
THERMAL FACTOR, Ct=1.2

5. WIND LOADS:
BASIC WIND SPEED, V=150 MPH
RISK CATEGORY = I
WIND EXPOSURE C
WIND LOAD IMPORTANCE FACTOR = 1.0
C&C ROOF-ZONE 1=23.3, -37.0 psf
C&C ROOF-ZONE 2=23.3, -64.5 psf
C&C ROOF-ZONE 3=23.3, -95.4 psf
C&C WALL-ZONE 4=40.5, -43.9 psf
C&C WALL-ZONE 5=40.5, -54.2 psf

6. SEISMIC LOADS:
THIS STRUCTURE IS EXEMPT FROM SEISMIC DESIGN PER EXEMPTION 3 OF ASCE 7-10, SECTION 11.1.2

ITEMS BY OTHERS:

THE FOLLOWING ITEMS ARE NOT PROVIDED BY RAILROAD CONSULTANTS, PLLC AND ARE TO BE DESIGNED BY OTHERS IF APPLICABLE AND ARE TO BE SUPPLIED AND INSTALLED BY OTHERS. THESE ITEMS MAY BE SUBJECT TO LOCAL JURISDICTION APPROVAL. RAILROAD CONSULTANTS, PLLC IS NOT RESPONSIBLE THESE ITEMS.

- 1. RAMPS, STAIRS, AND GENERAL ACCESS
- 2. ELECTRICAL SERVICE HOOKUP

BUILDING SIZES:

| | |
|-----------------------|----------------------|
| <u>10' WIDTH</u> | <u>14' WIDTH*</u> |
| 10'x16' | *NOTE:(13'-0 ACTUAL) |
| 10'x20' | 14'x24' |
| 10'x24' | 14'x28' |
| | 14'x32' |
| <u>12' WIDTH**</u> | 14'x36' |
| **NOTE:(12'-1 ACTUAL) | 14'x40' |
| 12'x20' | |
| 12'x24' | |
| 12'x28' | |
| 12'x32' | |
| 12'x40' | |

NOTE: 16' WIDE BLDGS ARE BUILD ON SITE ONLY.

INDEX OF SHEETS:

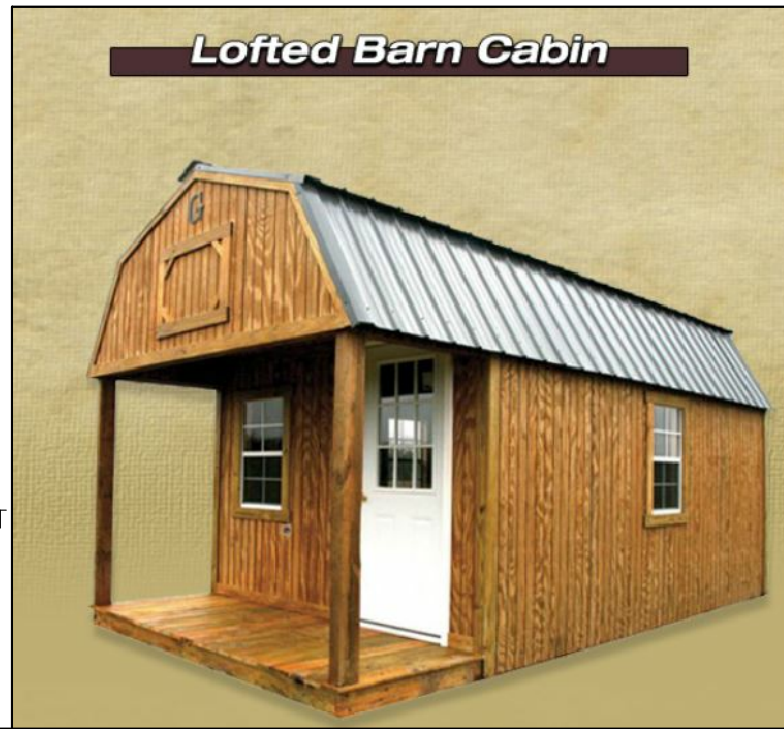
- S-0-LBC - COVER SHEET
- S-1-LBC - FOUNDATION PLAN
- S-2-LBC - UPLIFT ANCHORAGE
- S-3-LBC - FRAMING PLAN
- S-4-LBC - BUILDING SECTIONS
- S-5-LBC - ELEVATIONS
- S-6-LBC - NAILING PATTERN
- S-7-LBC - DETAILS
- S-8-LBC - DETAILS

PROJECT NOTE:

THIS BUILDING IS NOT DESIGNED FOR HUMAN HABITATION AND DOES NOT HAVE WATER, SEWER, ELECTRICAL OR HVAC SYSTEMS. THIS BUILDING IS DESIGNED AS A MINOR STORAGE OCCUPANCY ONLY.

GENERAL NOTES:

- 1. STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE, 2012.
- 2. ALL MATERIALS AND LABOR SHALL BE IN ACCORDANCE WITH THE ABOVE CODE AND ALL OTHER APPLICABLE LOCAL CODES AT THE TIME OF MANUFACTURE.
- 3. DRAWINGS SHALL NOT BE SCALED FOR DIMENSIONS.
- 4. STRUCTURES ARE CLASSIFIED AS "MINOR STORAGE FACILITIES" (OCCUPANCY CATEGORY I) AND SHOULD NOT BE USED FOR HUMAN HABITATION.



LOFTED BARN CABIN--LA --V=150MPH--IBC 2015



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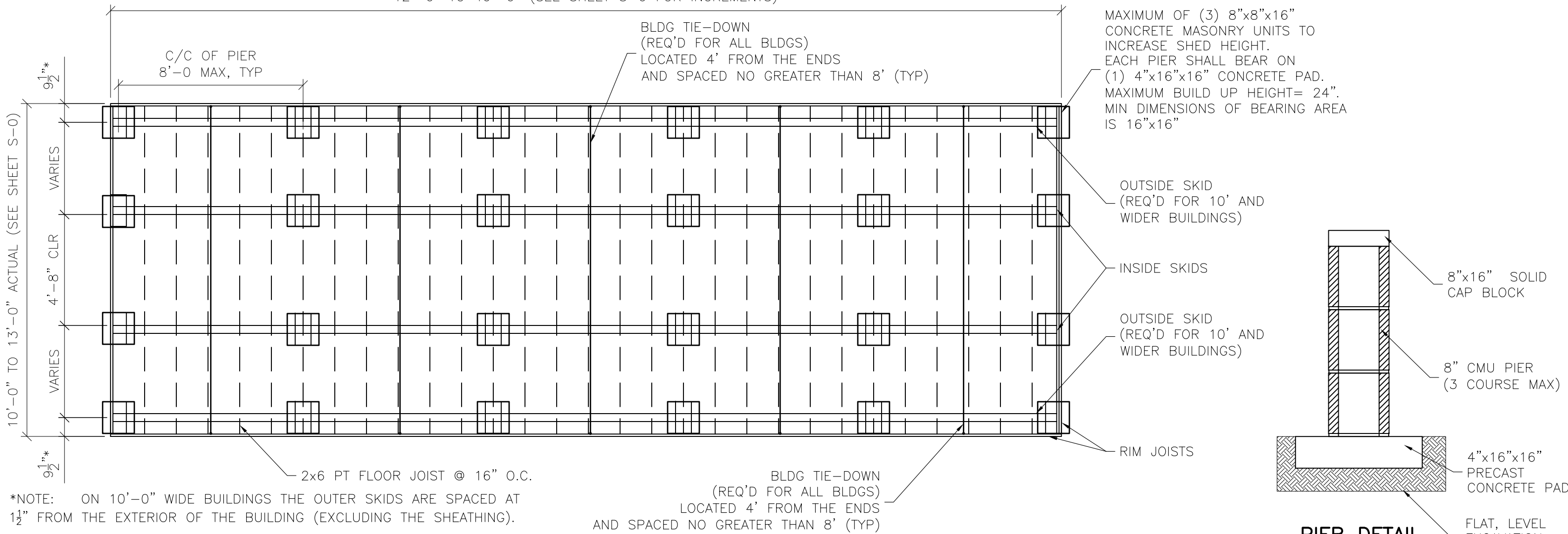


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|-------------|----------|
| PROJECT NO: | 14017 |
| DATE: | 08-23-16 |
| DRAWN BY: | JGG |
| CHECKED BY: | DBG |
| REVISION: | 01 |

SHEET NUMBER
S-0-LBC
SCALE: 1/4"=1'-0

12'-0" TO 40'-0" (SEE SHEET S-0 FOR INCREMENTS)



10'-0" TO 13'-0" ACTUAL (SEE SHEET S-0)

*NOTE: ON 10'-0" WIDE BUILDINGS THE OUTER SKIDS ARE SPACED AT 1 1/2" FROM THE EXTERIOR OF THE BUILDING (EXCLUDING THE SHEATHING).

FOUNDATION PLAN

PIER DETAIL

FOUNDATION:

1. ANCHORS ARE SPECIFIED ON SHEET S-2 AND SHALL BE INSTALLED PER MANUFACTURE'S RECOMMENDATIONS PER THE BUILDING CODE.
2. ANCHORS AND STRAPS INCLUDING THE INSTALLATION SHALL MEET THE REQUIREMENTS OF APPENDIX E OF THE INTERNATIONAL RESIDENTIAL BUILDING CODE.
3. THE MINIMUM ALLOWABLE SOIL BEARING CAPACITY OF 2500 psf HAS BEEN ASSUMED FOR FOOTING DESIGN. CONTRACTOR TO HAVE THIS CAPACITY VERIFIED PRIOR TO CONSTRUCTION.
4. IF A MINIMUM ALLOWABLE SOIL BEARING CAPACITY OF 1500 psf IS USED, THEN THE PIER SPACING SHALL BE NO GREATER THAN 4'-0.
5. FOOTINGS SHALL BE CARRIED TO AN ELEVATION LOWER THAN THOSE SHOWN ON THE DRAWINGS IF REQUIRED TO REACH SUITABLE SOIL.
6. FOOTINGS SHALL BE PLACED ON SUITABLE SOIL THAT MEETS DESIGN ASSUMPTIONS.
7. FOUNDATION MATERIALS AND LABOR IS PROVIDED BY CUSTOMER.
8. TIE DOWNS SHALL BE PLACED AT EACH OUTER PIER.
9. SHED IS DESIGNED TO ALSO BE PLACED ON FLAT, LEVEL GROUND DIRECTLY ON THE SKIDS.

MASONRY:

CMU f'm = 1,500 PSI
 MORTAR f'm = 1,900 PSI
 GROUT f'm = 3,500 PSI

CONCRETE:

1. MATERIALS (COMPRESSIVE STRENGTH AT 28 DAYS)
 FOOTINGS 3,000 PSI
 FOOTINGS AND EXTERIOR CONCRETE SHALL BE AIR-ENTRAINED



LOFTED BARN CABIN--LA--V=150MPH--IBC 2015



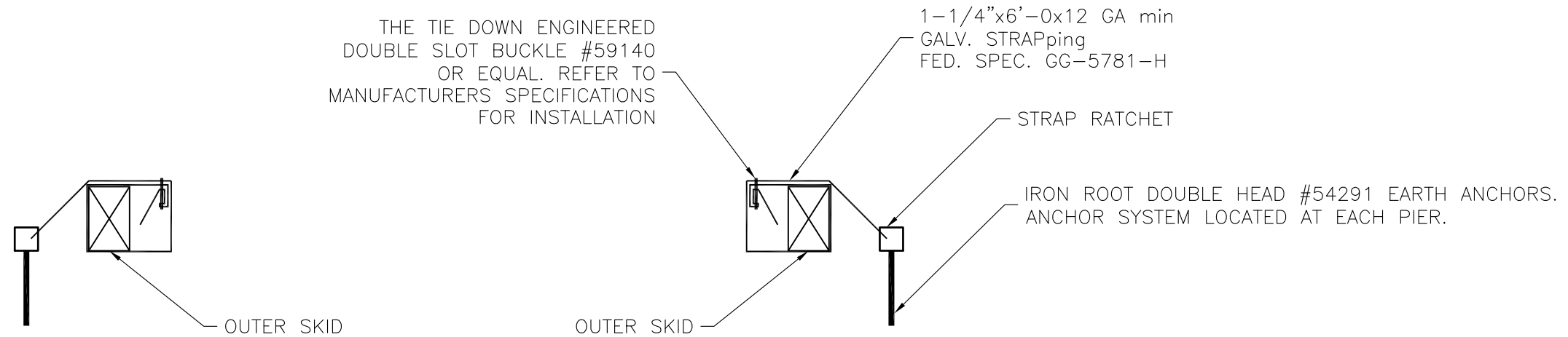
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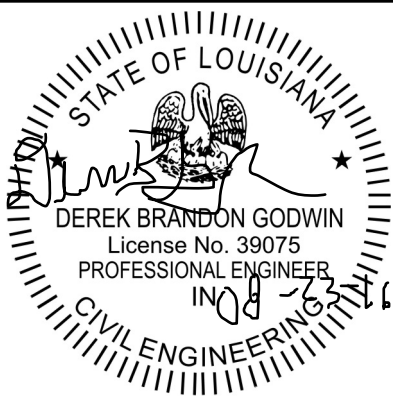
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 SCALE: 1/4"=1'-0"



ANCHOR TIE DOWN DETAIL

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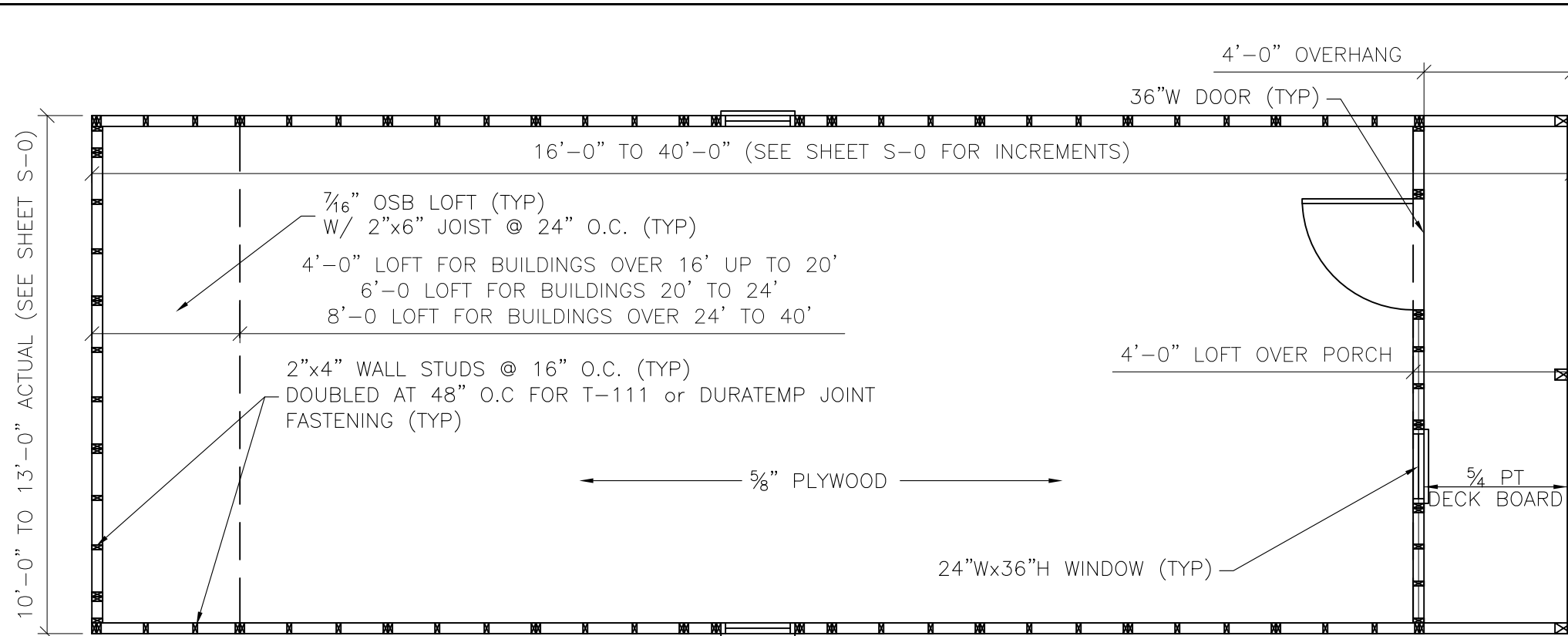
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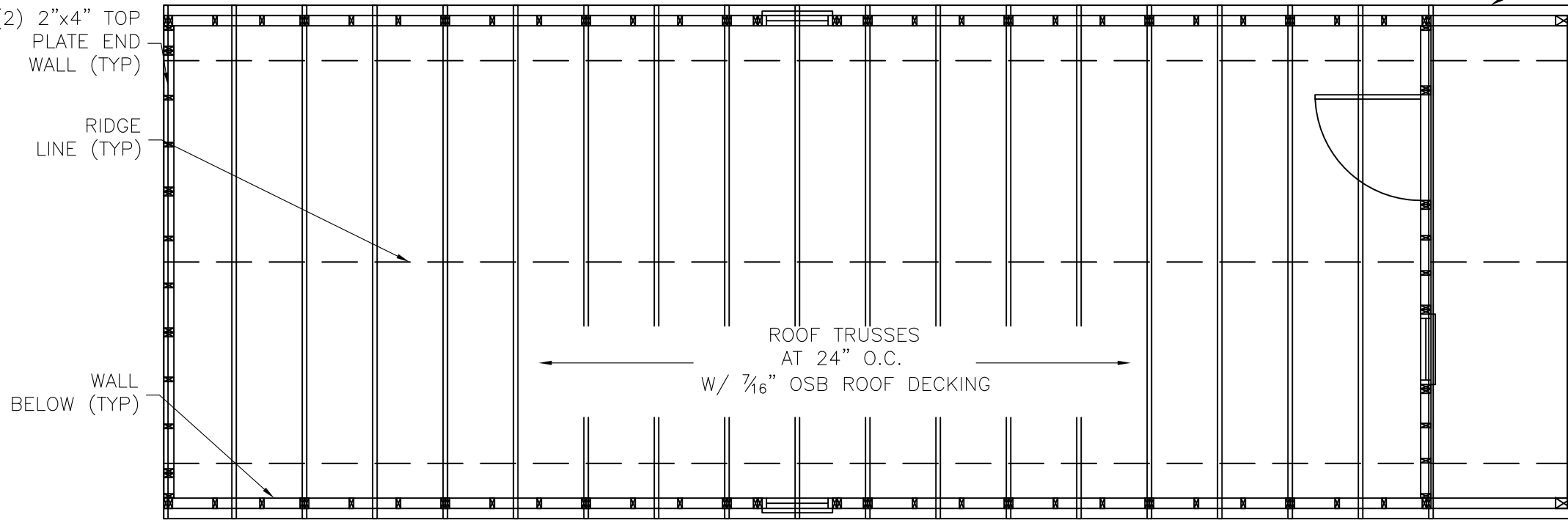
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SHEET NUMBER
S-2-LBC
 SCALE: 1/4"=1'-0



FLOOR PLAN

- 4"x6" PT COLUMN, TYP OF 2
CENTER 4"x6" PT COLUMN ON
14' & 16' WIDE BUILDINGS ONLY.
- FLOOR PLAN NOTES:**
 1) INSTALL 5/8" FLOOR SHEATHING WITH LONG DIMENSION SPANNING JOISTS, STAGGER JOISTS.
 2) FASTEN 5/8" FLOOR SHEATHING WITH 2" RING-SHANK NAILS @ 6" O.C.
- OTHER FRAMING NOTES:**
 1) 2x8 TOP PLATE W/ (2) 3"x0.120φ NAILS AT 16" O.C. TO 2x4 TOP PLATE.
 (1) 2x8 FITTED TOP PLATE OVER
 (1) 2x4 TOP PLATE SIDE WALLS
- ROOF FRAMING NOTES:**
 1) INSTALL 7/16" ROOF SHEATHING WITH LONG DIMENSION SPANNING TRUSSES.
 2) FASTEN 7/16" ROOF SHEATHING WITH 2" RING-SHANK NAILS @ 6" O.C.



ROOF FRAMING

- COLUMN NOTES:**
 1) USE METAL COLUMN CLIPS TOP AND BOTTOM TYPICAL.
 2) USE (4) #8x3" WOOD SCREWS EACH SIDE OF THE COLUMN TOP AND BOTTOM TO INSTALL THE COLUMN CLIPS.
 3) GLUE TOP PLATES TOGETHER WITH LIQUID NAIL (LN-903) CONTINUOUS ACROSS OVERHANG AND 36" MINIMUM INTO ENCLOSED SPACE.
 4) NAIL TOP PLATES TOGETHER WHERE GLUED WITH 2 ROWS OF 8d NAILS AT 6" O.C.
 5) PROVIDE A 4x6 PT COLUMN SUPPORT FLUSH WITH THE TOP OF FLOOR JOISTS AND SPANNING THE ENTIRE FIRST FLOOR JOIST SPAN. (NAIL WITH 8d NAILS ON ENDS AND ALONG THE SIDE)



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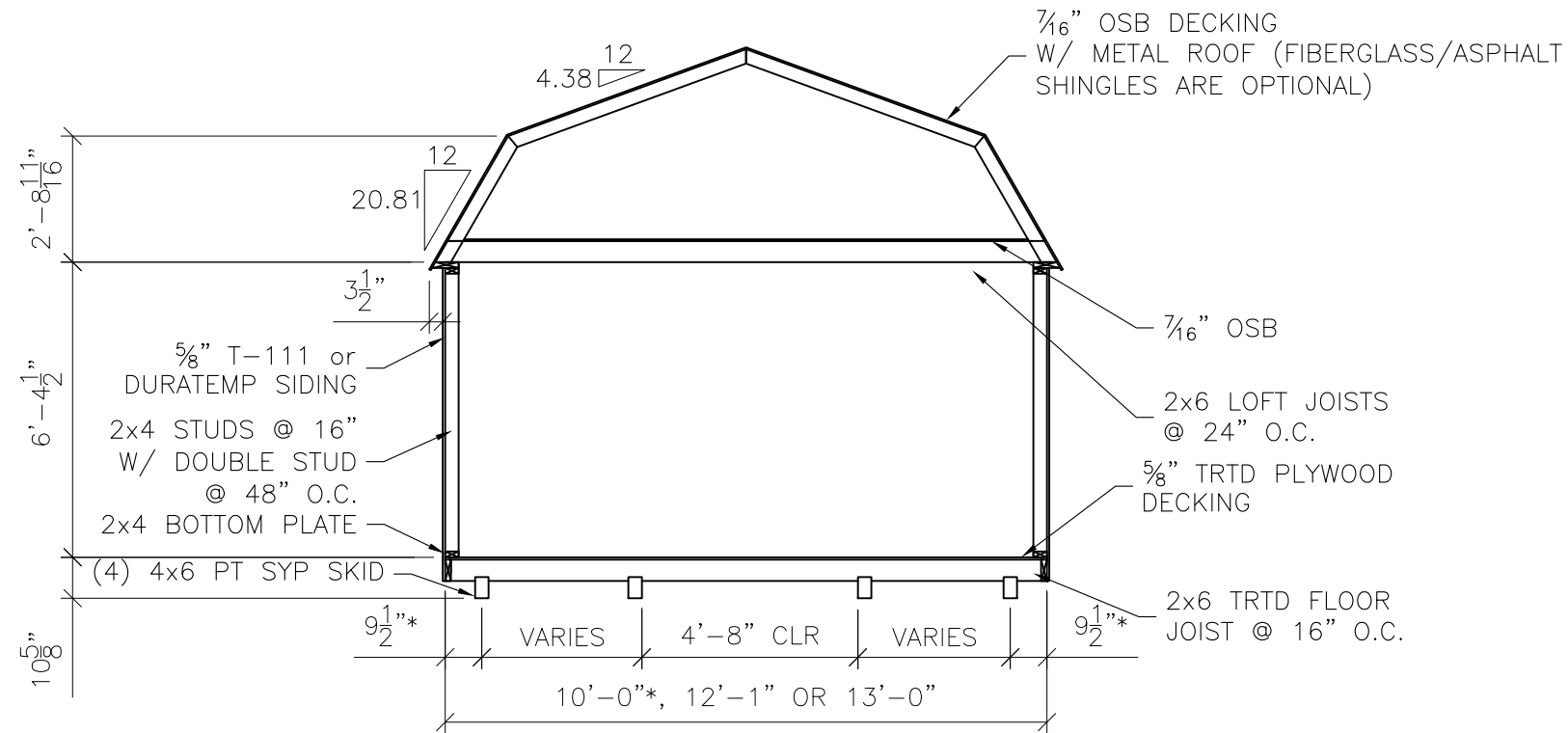
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**10', 12' & 14' WIDE
BUILDING SECTIONS**

*NOTE: ON 10'-0" WIDE BUILDINGS THE OUTER SKIDS ARE SPACED AT 1 1/2" FROM THE EXTERIOR OF THE BUILDING (EXCLUDING THE SHEATHING).

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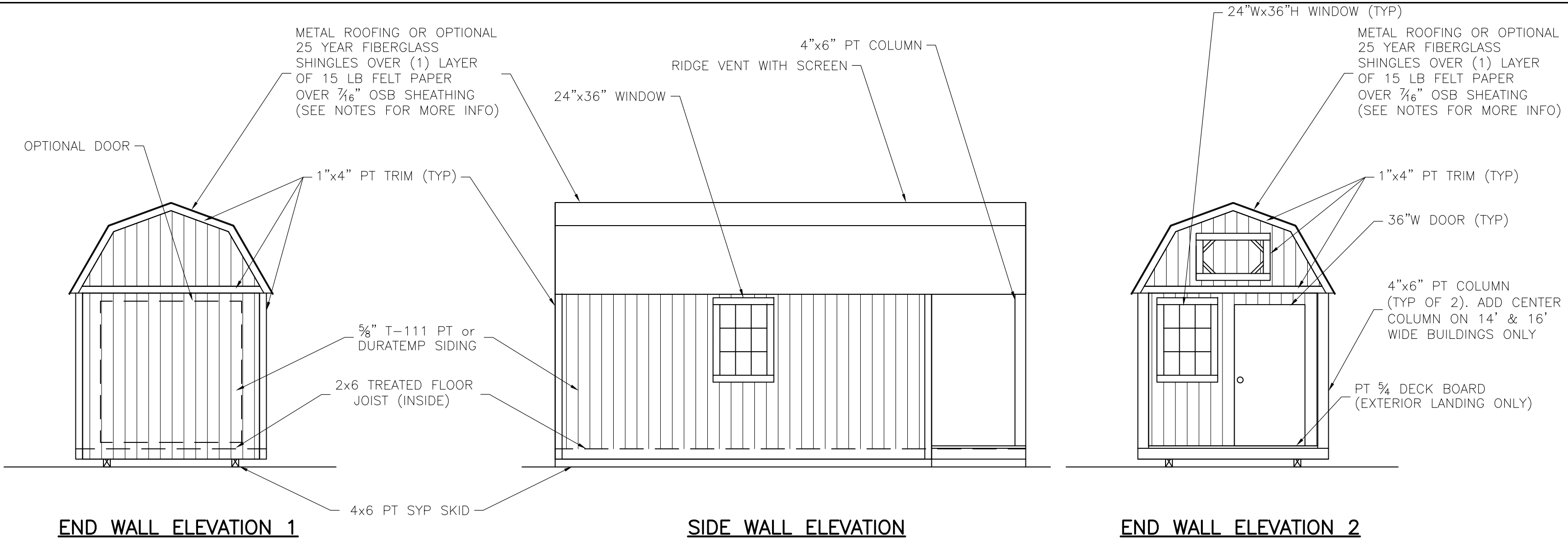
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SHEET NUMBER
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SCALE: 1/4"=1'-0"



ROOFING AND UNDERLAYMENT NOTES:

- 1) PROVIDE A RIDGE VENT TYPICAL WITH INSECT SCREEN.
- 2) METAL ROOFING SHALL BE 29 GAUGE METAL IN ACCORDANCE WITH ASTM A 924 OR ASTM A 924M OVER OSB SHEATHING.
- 3) PROVIDE 29 GAUGE RIDGE CAP, EAVE TRIM AND RAKE TRIM.
- 4) INSTALL AND FASTEN METAL ROOFING PER MANUFACTURER'S INSTRUCTIONS FOR WIND LOADING.
- 5) OPTIONAL SHINGLES SHALL BE IN ACCORDANCE WITH ASTM D 7158 TYPE H OR ASTM D 3161F TYPICAL.
- 6) INSTALL 1 LAYER OF 15 LB ROOFING FELT, START WITH A 19" WIDE STRIP PARALLEL WITH AND STARTING AT EAVES FASTENED SECURELY TO HOLD IN PLACE. START AT EAVE WITH A 38" WIDE SHEET WITH OVERLAPPING SUCCESSIVE SHEETS BY 19". FASTEN UNDERLAYMENT WITH CORROSION-RESISTANT FASTENERS PER MAUFACTURER'S INSTRUCTIONS AND SPACED A MAXIMUM OF 36" APART.



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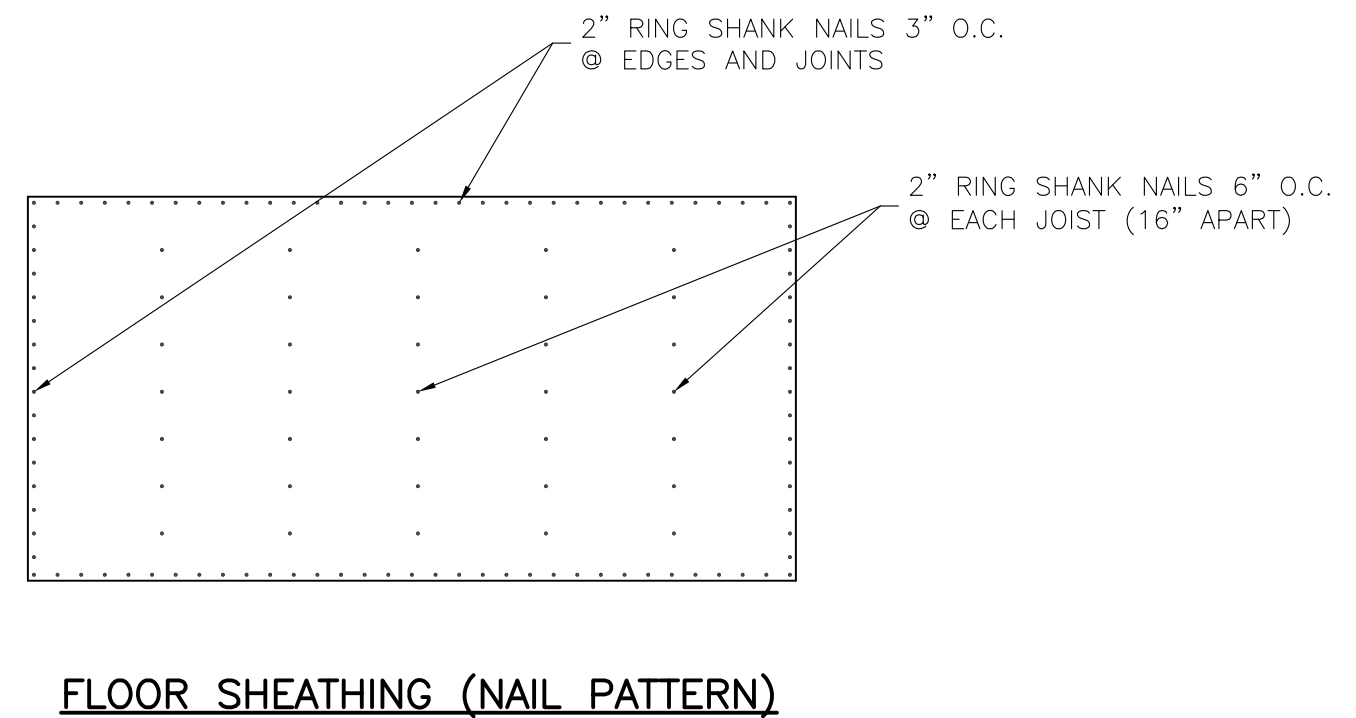
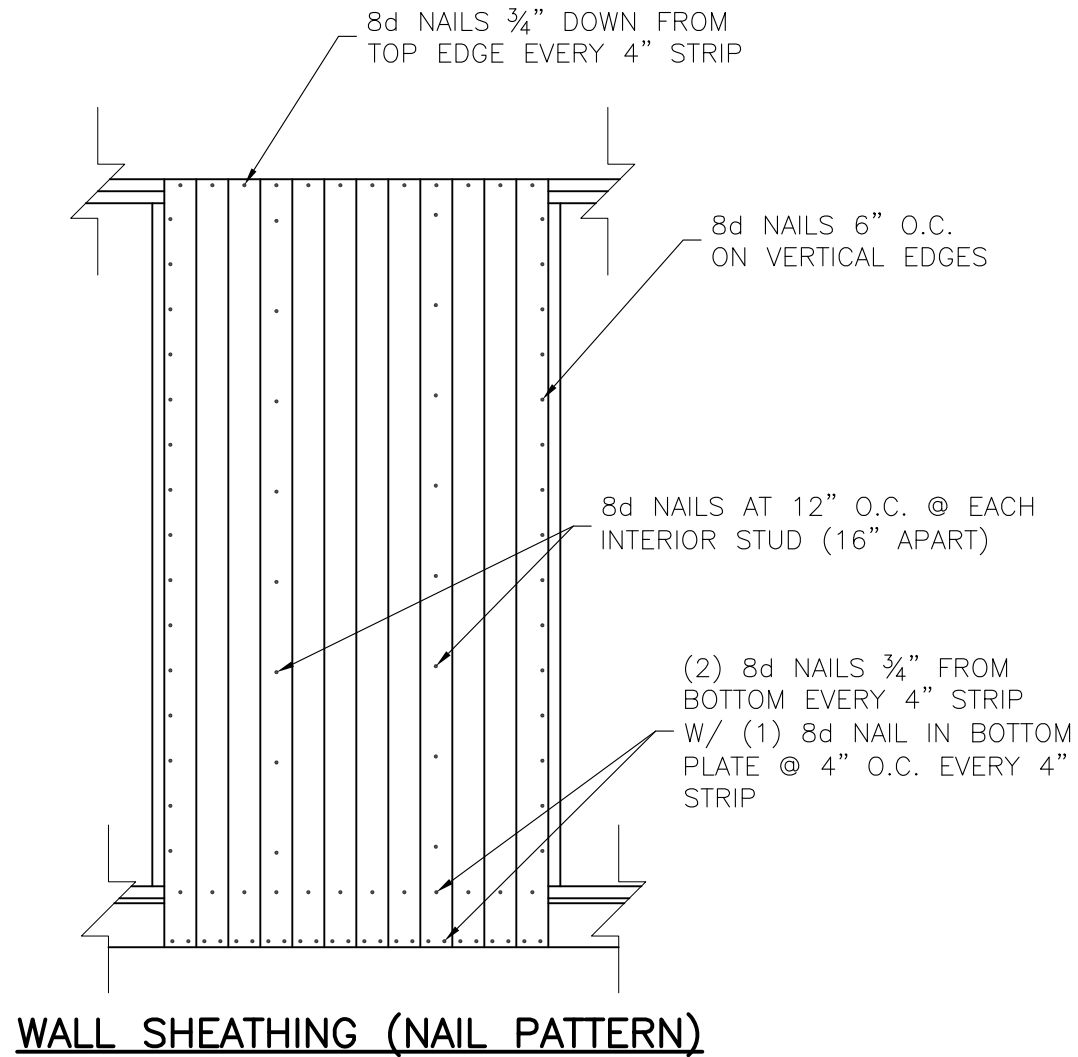
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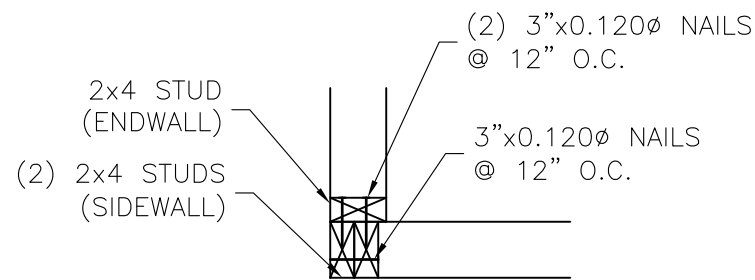
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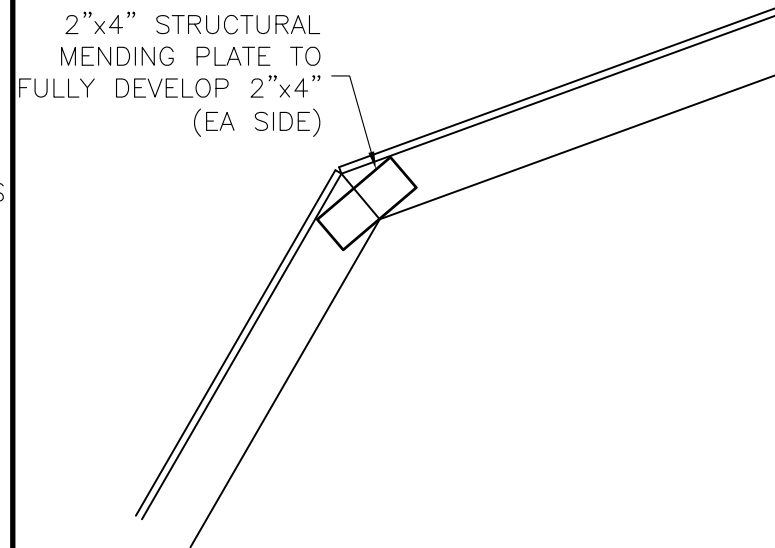
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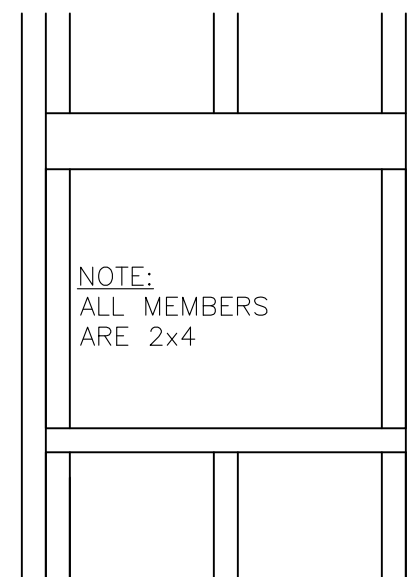
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S-6-LBC
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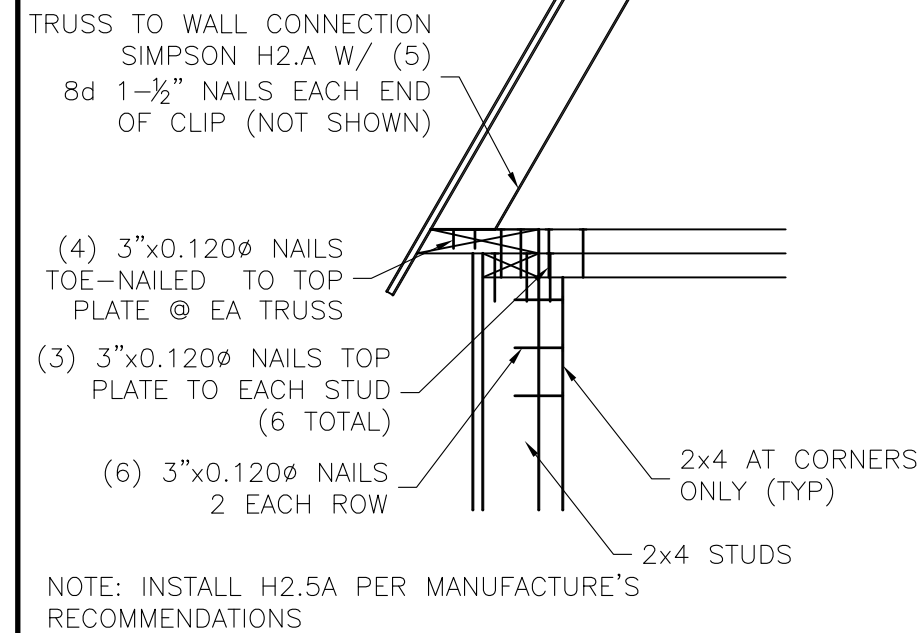
1-CORNER DETAIL



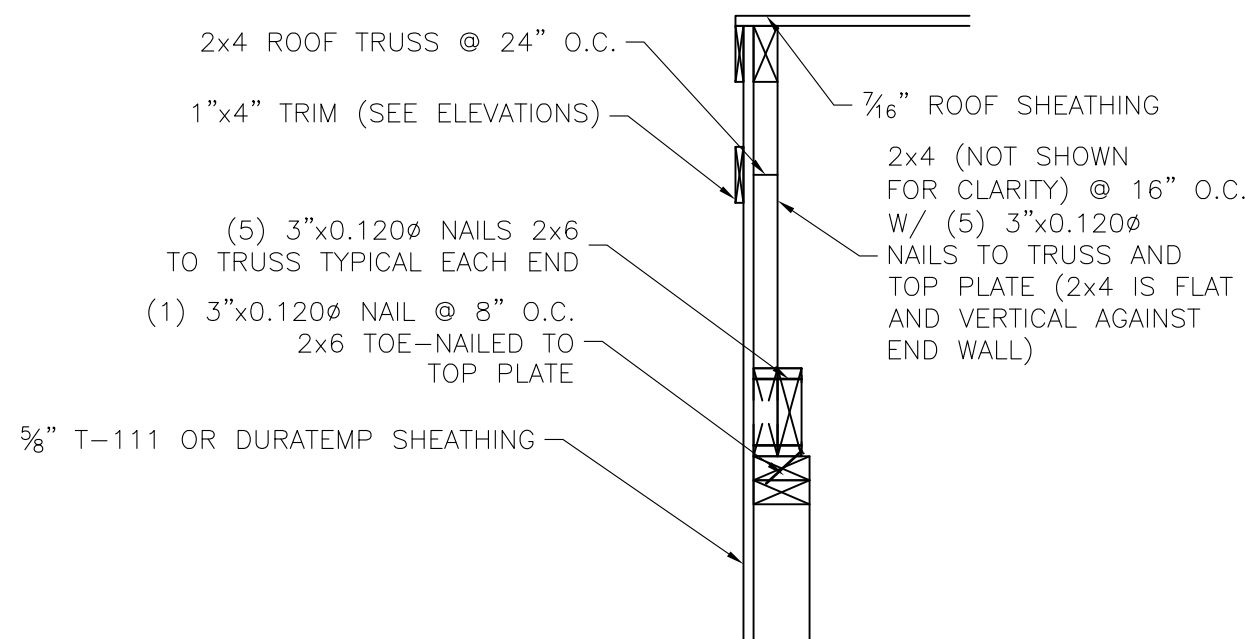
2-TRUSS SPLICE DETAIL



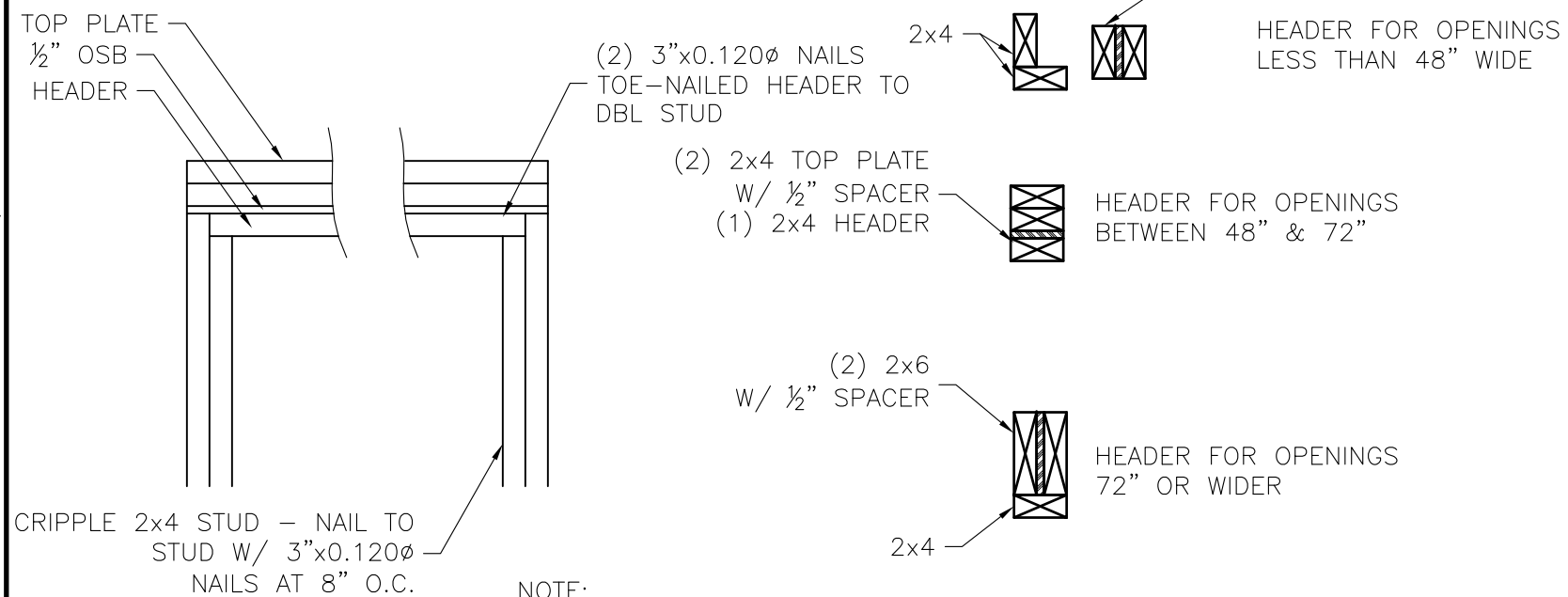
3-TYP WINDOW FRAMING



4-CORNER & WALL DETAIL



5-END WALL DETAIL



6-TYP DOOR FRAMING



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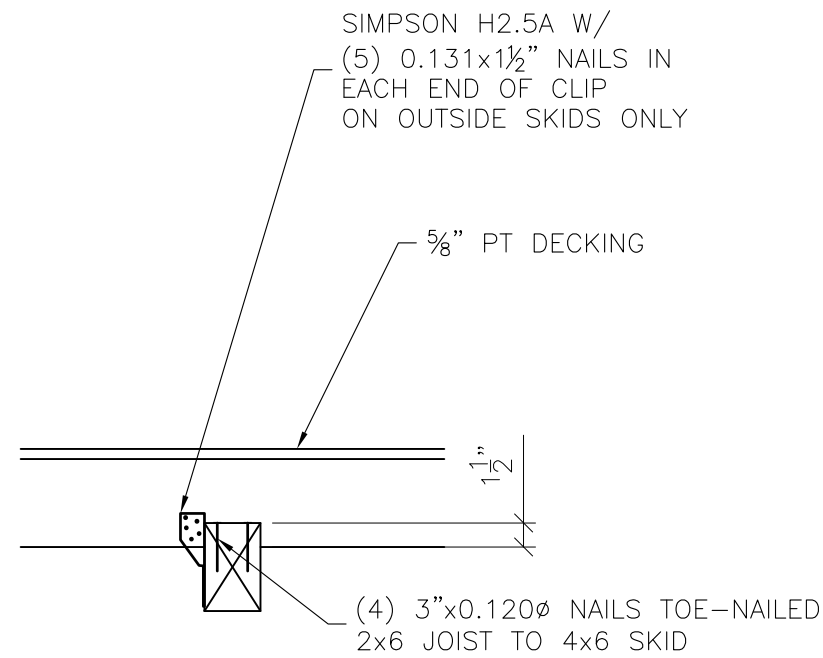
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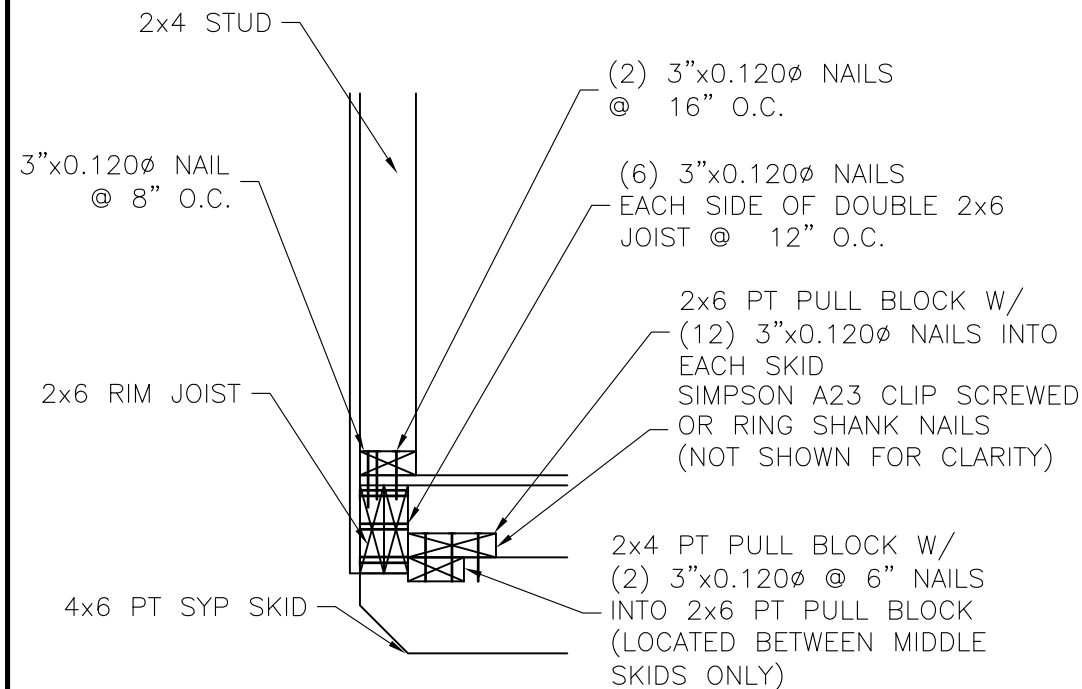
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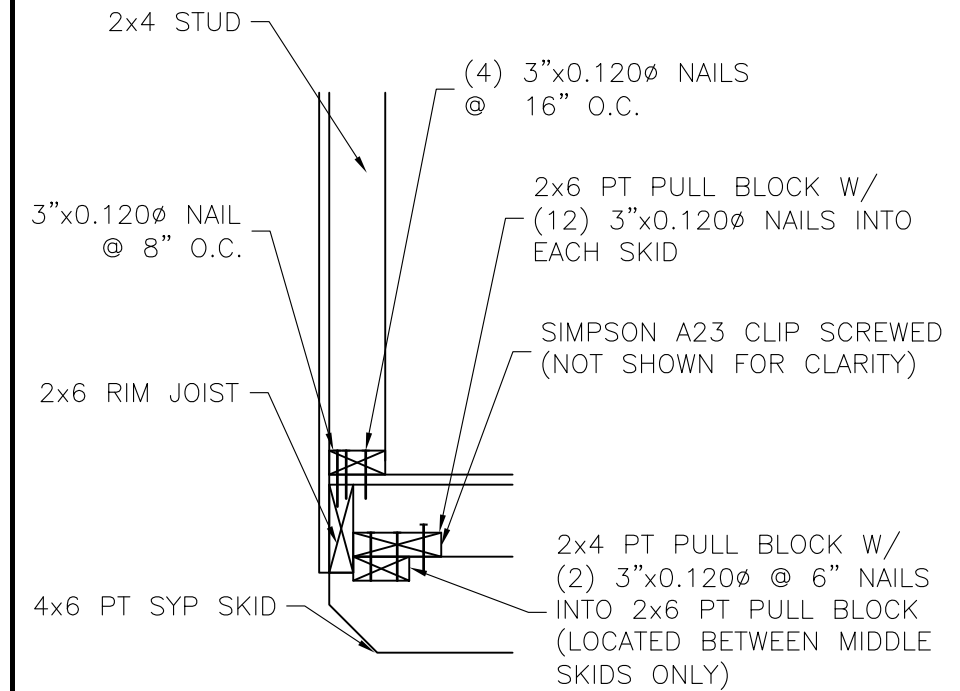
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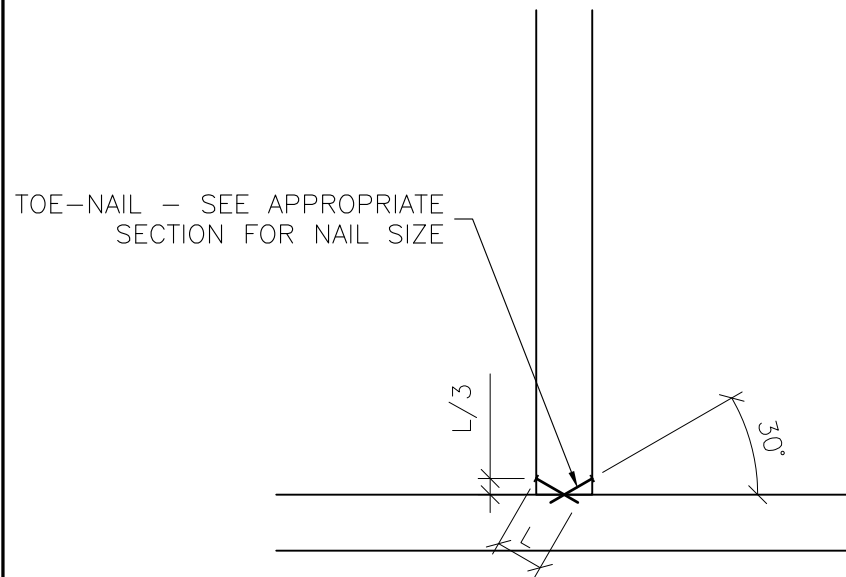
1-INNER & OUTER SKID DETAIL @ EVERY JOIST



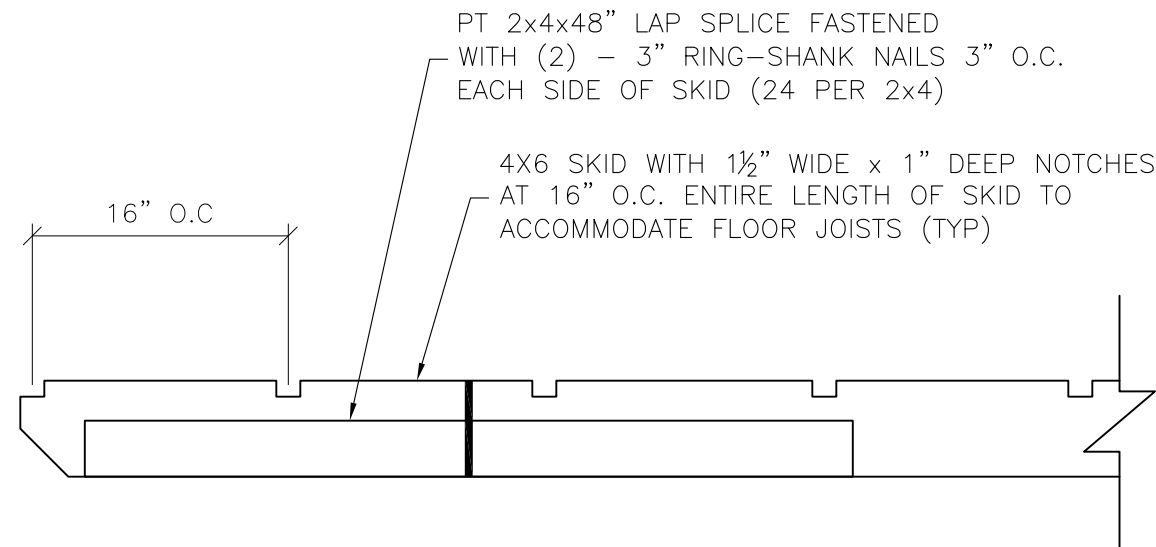
2-ENTRY DOOR ENDWALL JOIST DETAIL



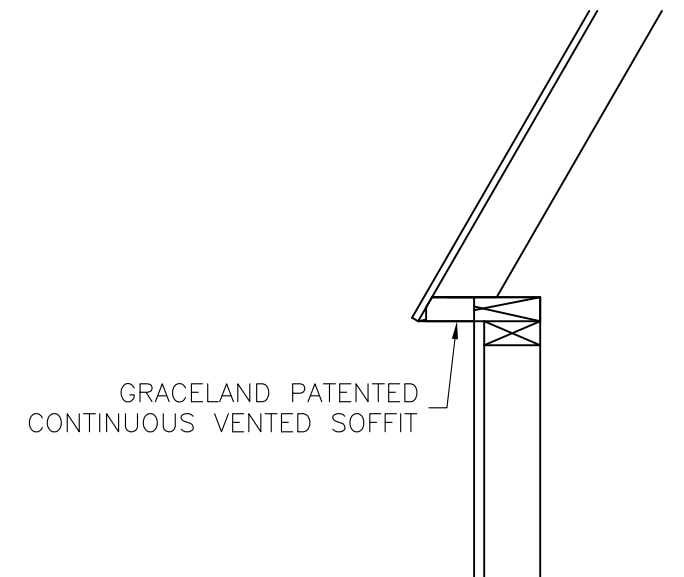
3-REAR ENDWALL JOIST DETAIL



4-TOE-NAIL DETAIL



5-SKID DETAIL



6-SOFFIT VENTS

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