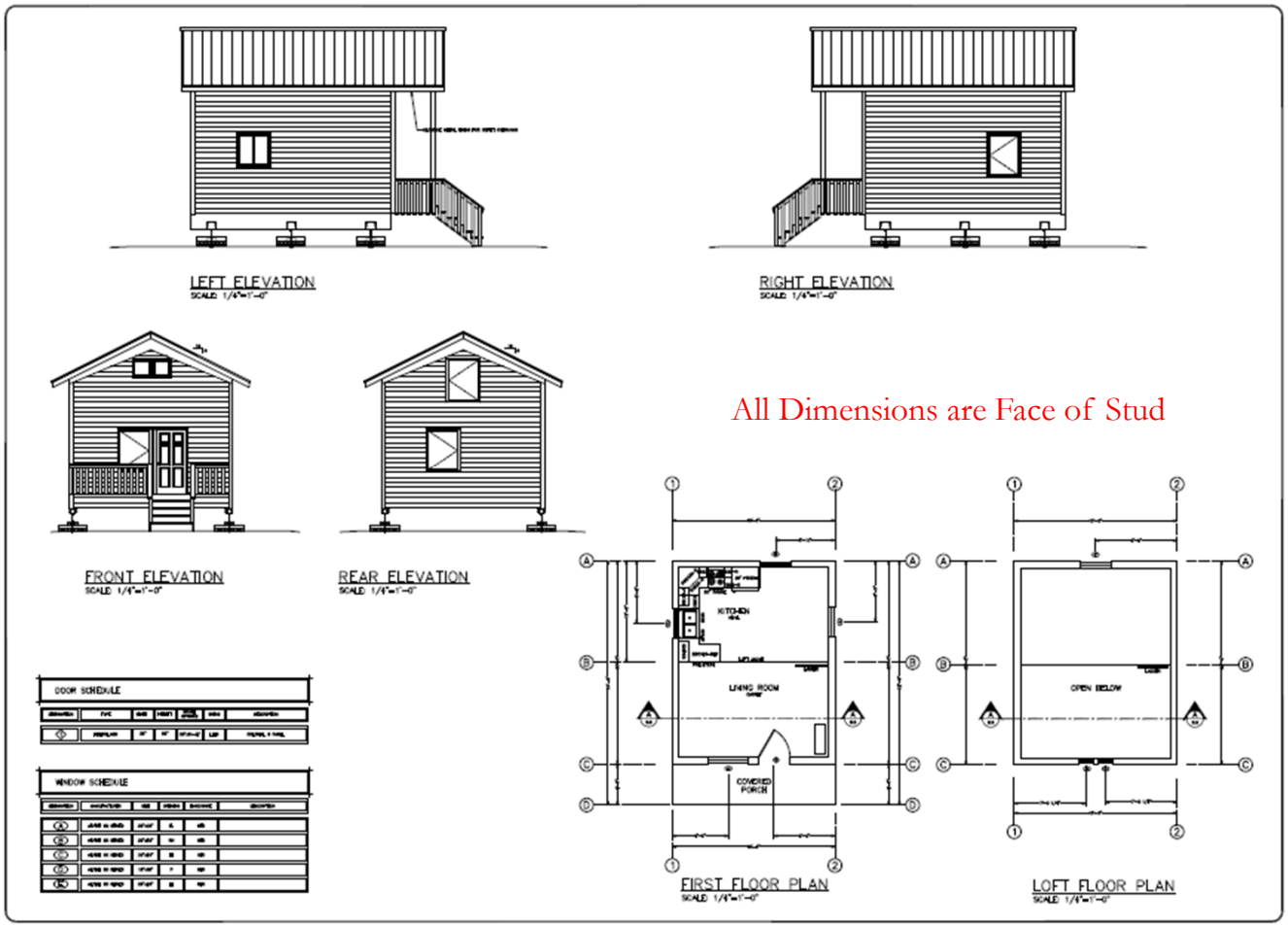
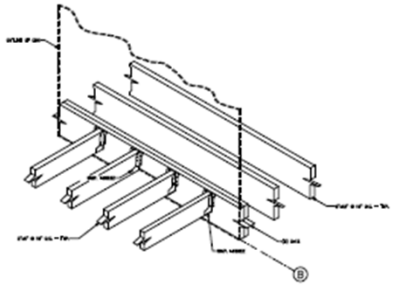
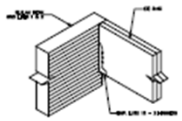
# Black Bear 400

EZ Builder Cabin Kits

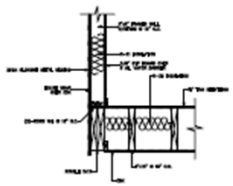

LEFT ELEVATION
RIGHT ELEVATION
FRONT ELEVATION
REAR ELEVATION
All Dimensions are Face of Stud
DOOR SCHEDULE
WINDOW SCHEDULE
FIRST FLOOR PLAN
LOFT FLOOR PLAN
KITCHEN
LIVING ROOM
COVERED PORCH
OPEN BELOW
320 SQFT / 16'x20'
FLOOR PLAN & ELEVATION
Spenard Builders Supply
A.1



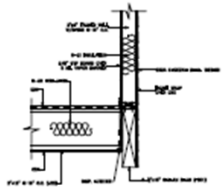
A S.2 JOIST ATTACHMENT AT DECK



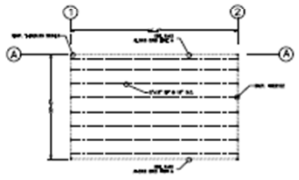
B S.2 END JOIST CONNECTION



C S.2 JOIST FRAMING DETAIL

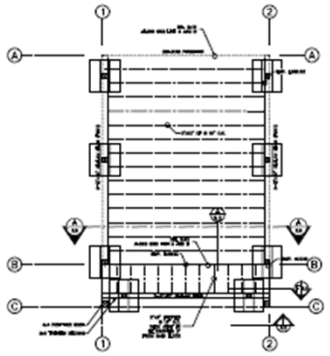


D S.2 JOIST FRAMING DETAIL



LOFT FLOOR FRAMING PLAN

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



FIRST FLOOR FRAMING PLAN

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

320 SQFT / 16'x20'
FRAMING PLAN

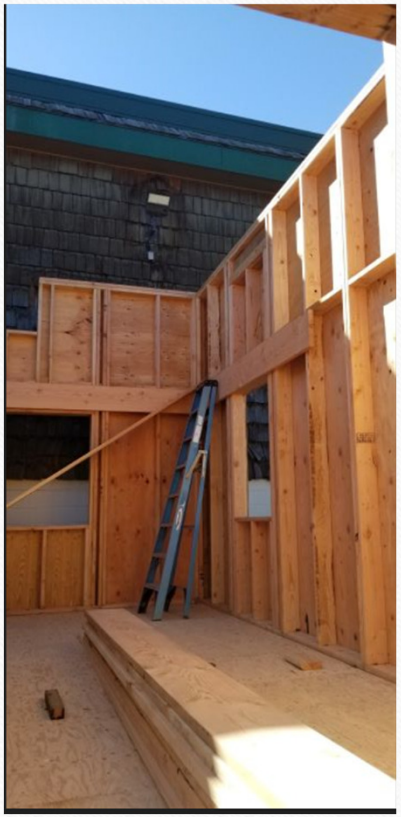
Spenard Builders Supply

S.2





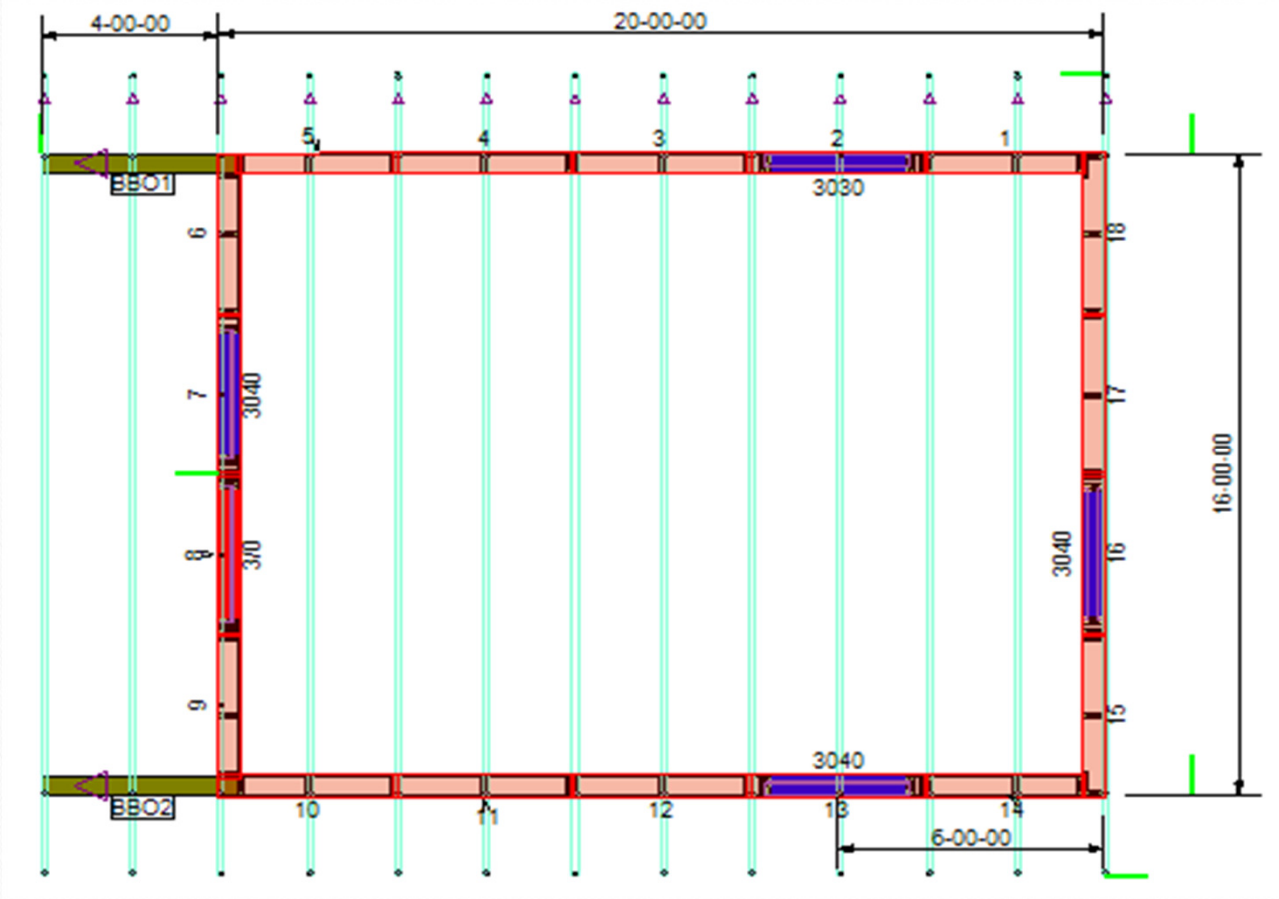

Base Foundation/Floor Decking

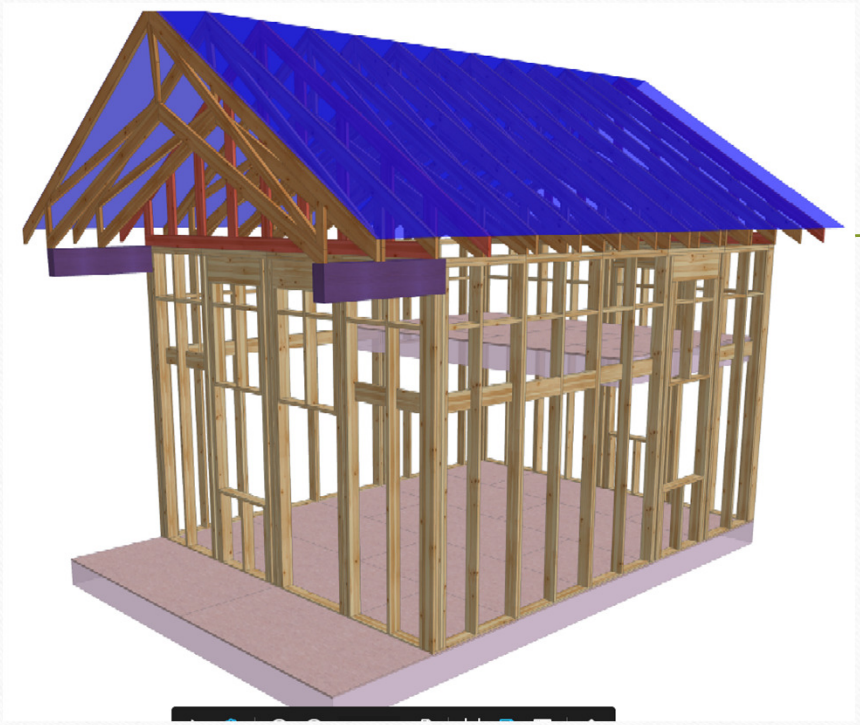


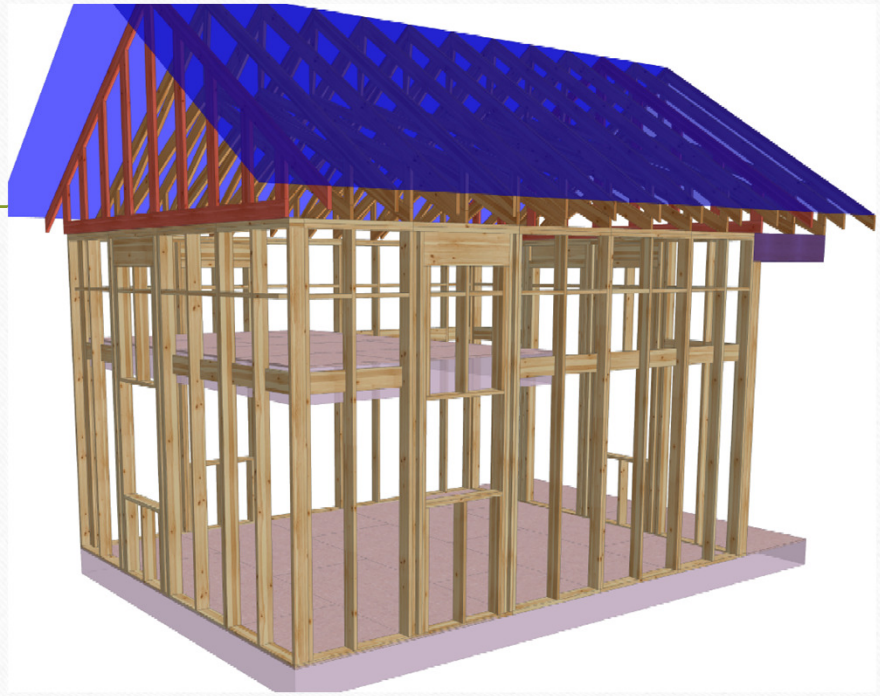
Wall Panels

Loft Ledger

Panel Layout



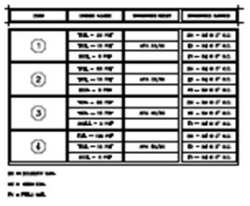




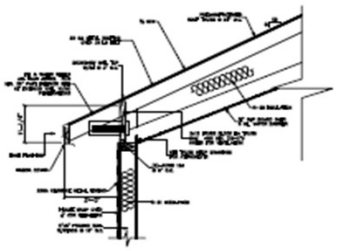
Loft Framing

Loft Ladder/Railing

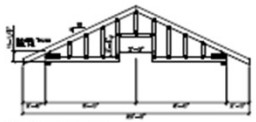
Truss Blocking



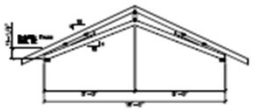
TRUSS FRAMING NOTES



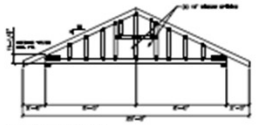
A / S.3 HEEL DETAIL (TYP.)



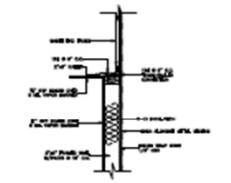
TRUSS TYPE A01



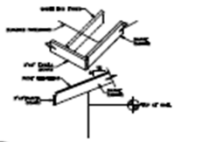
TRUSS TYPE A02



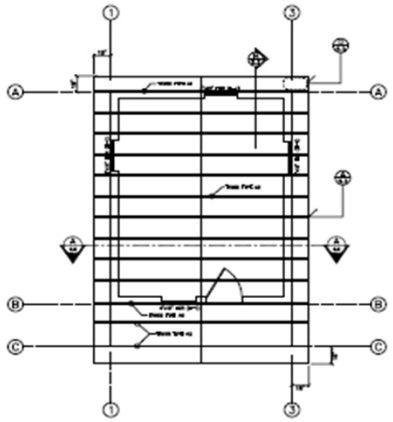
TRUSS TYPE A03



B / S.3 GABLE TRUSS CONNECTION



C / S.3 BARGE DETAIL–TYP.



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

320 SQFT / 16'x20'
ROOF FRAMING PLAN

Spanard Builders Supply

S.3

Exterior Railing

Deck Framing/Truss Bearing

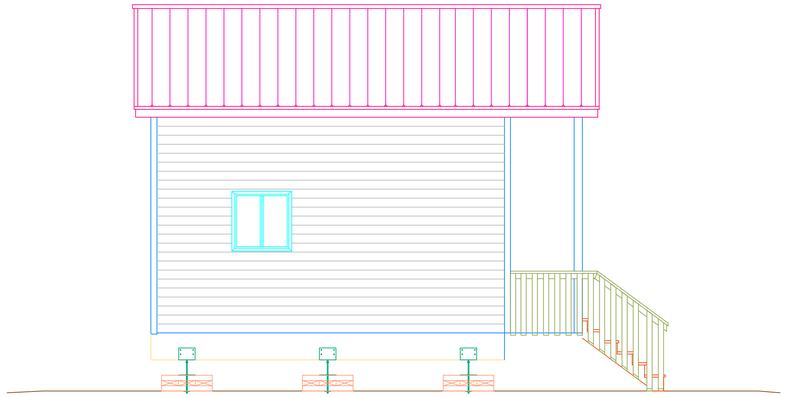
# Package Contents:

**Black Bear 400**

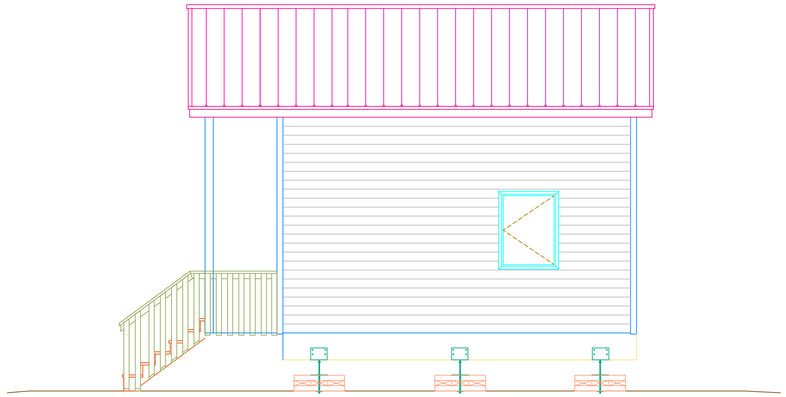
| Cut Material List | | | Pull Ship Loose | |
|---|---|---|---|---|
| **QTY** | **Length** | **Material** | **QTY** | **Material** |
| 48 each | 3-0-0 | 4x12 Treated | 14-each | L50Z Simpson Hangers(Loft Ladder) |
| 8 each | 3-0-0 | 4x8 Treated | 1-Roll | Gator Skin Roof/Siding wrap |
| 2 each | 20-0-0 | 5.5"x15" GLB | 6-each | HUC410Z (Concealed Flange Hangers) |
| 1 each | 16-0-0 | 5.5"x12" Treated GLB | 26 each | LUS26Z(Deck Joist Hangers) |
| 14 each | 15-0-13 | 2x12 DF(FLoor) | 44-each | LUS210Z(Floor/Loft Joist Hangers) |
| 1 each | 15-0-13 | 4x12DF(Rear) | 2-each | BC60Z(Post Base 6x6) |
| 8 each | 14-9-14 | 2x12 DF(Loft) | 2-each | BC6Z(Post Cap 6x6) |
| 1 each | 14-9-14 | 4x12DF(Loft) | 2-each | Vycor 75'x9" Wrap(Windows) |
| 2 each | 10-0-0 | 2x12 DF(Loft Sides) | 6-each | PL400 28oz(Floor Adhesive) |
| 1 each | 15-0-13 | 4x12 Treated(Front) | 8-each | 5.5" Custom FNDBRK |
| 2-each | 10-0-0 | 2x8 Df Loft Ladder | 10-each | 3/4" TGFIR(4x8 3/4" Floor sheathing) |
| 7each | 2-0-0 | 2x6DF Loft Ladder | 25-each | 5/8" CDX(4x8x5/8" Loft/Roof Sheathing) |
| 7 each | 2'x8' Belly Band | 1/2" cd ply | 3-each | 3/8" Okume(4x8x3/8" Okume Plywood)Deck Soffit |
| **QTY** | **Fasteners** | | 8-each | 12CDXFIR(1/2" cd ply Gable sheathing) |
| 2-Boxes | GR314148(3"x.148 Nails) | | 24-each | 212VBH(Truss Blocks) |
| 2-Boxes | GR212131 (2-1/2"x.131 SM Nails) | | 4-each | 2x8x14'DF(Fascia Boards) |
| 1-Box | FMTLOK6(6" Timberlock Screws)Foundation Pads | | 14-each | 2x4x16'DF(Overhang Blocks/Rat Run/Loft Railing) |
| | | | 11-each | 2x6x16' Treated Deck Boards(Dry Deck) |
| | | | 18-each | 2x4x16' Treated Deck Boards(Dry Deck) |
| | | | 6-each | 2x6x16' Treated (Deck Joists) |
| 1-Boxes | SP30119-29(10x3" Axis Screws)Deck Screws(5lb) | | 2-each | 2x6x20'DF(VTP) |
| 1.5-Boxes | H47876(5/16"x3.5" Star Con Lags)Deck Rail(160ea) | | 4-each | 2x6x16'DF(VTP/Back Fascia) |
| | | | 2-each | 6x6x12'DF(Deck Posts) |
| 1-Box | T50x1/2" Staples(Roof Gator Skin) | | 46-each | 1316RSGWRC(1x3x16'Cedar) |
| | | | 1-each | 5.5"x12"x12' GLB(Porch Beams) |
| 8-Boxes | SD10112R100-R (10x1.5" Joist Hangars) 100ea | | 1-each | Preservitive Treatment Bottle |
| 3-Boxes | Simpson 2.5" SDS25212-R25(FND Brackets 50ct) | | 1-Lot | 6each Caulking/ 3each Tubes Mastik |
| | | | Packages | |
| 1-each | Wall Panels/Trusses/Loft Ladder | | 1-each | Metal Roofing |
| 1-each | Windows-5ea 3x4,1-each 3x3 | | 1-each | Klondike Siding |
| 1-each | Door 3/0 with Brickmold | | 1-Bundle | R-38-11 each Bags(6 Roof 5 Floor), R-21 7 each Bags |
| | | | 1-each | Roll 6 Mil Poly |
| | | | Optional | |

# Optional Klondike Siding

(Stairs Not Included)

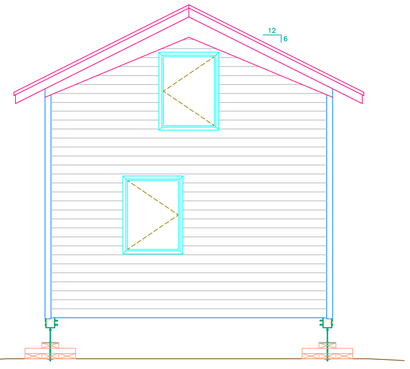


LEFT ELEVATION
SCALE: 1/4"=1'-0"



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


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



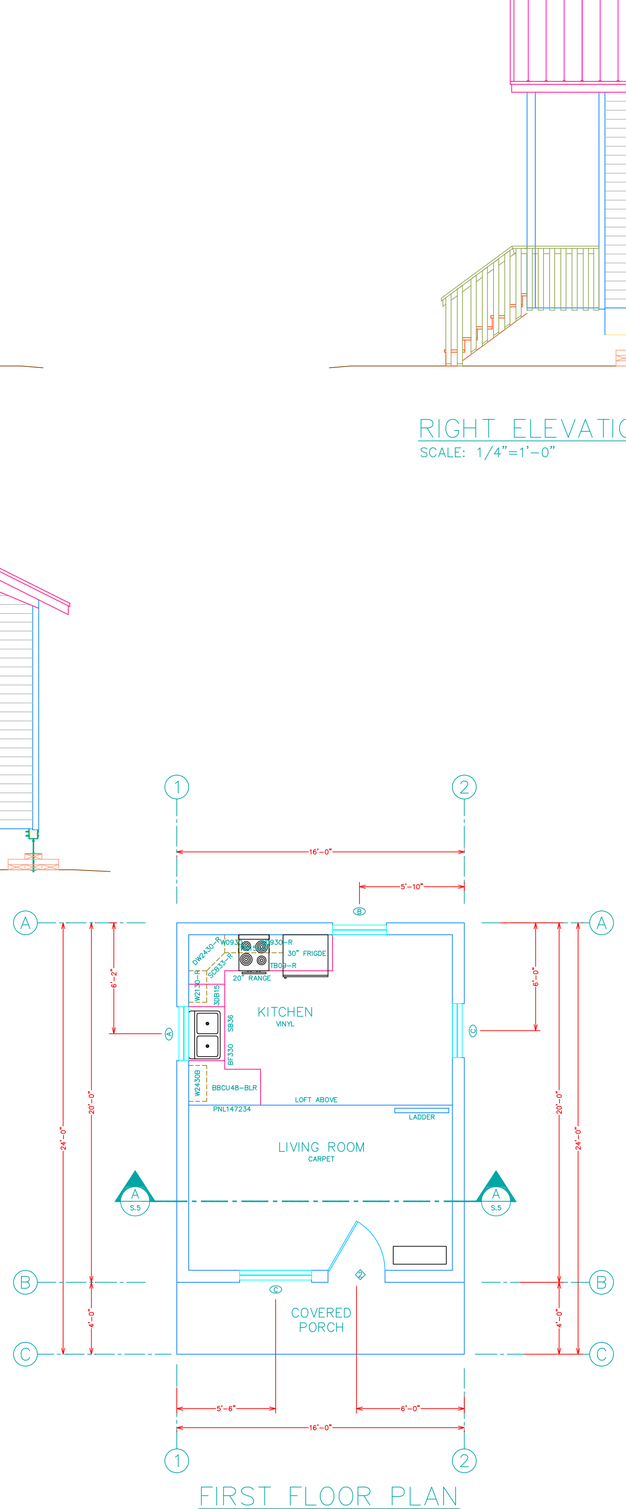

REAR ELEVATION
SCALE: 1/4"=1'-0"

DOOR SCHEDULE

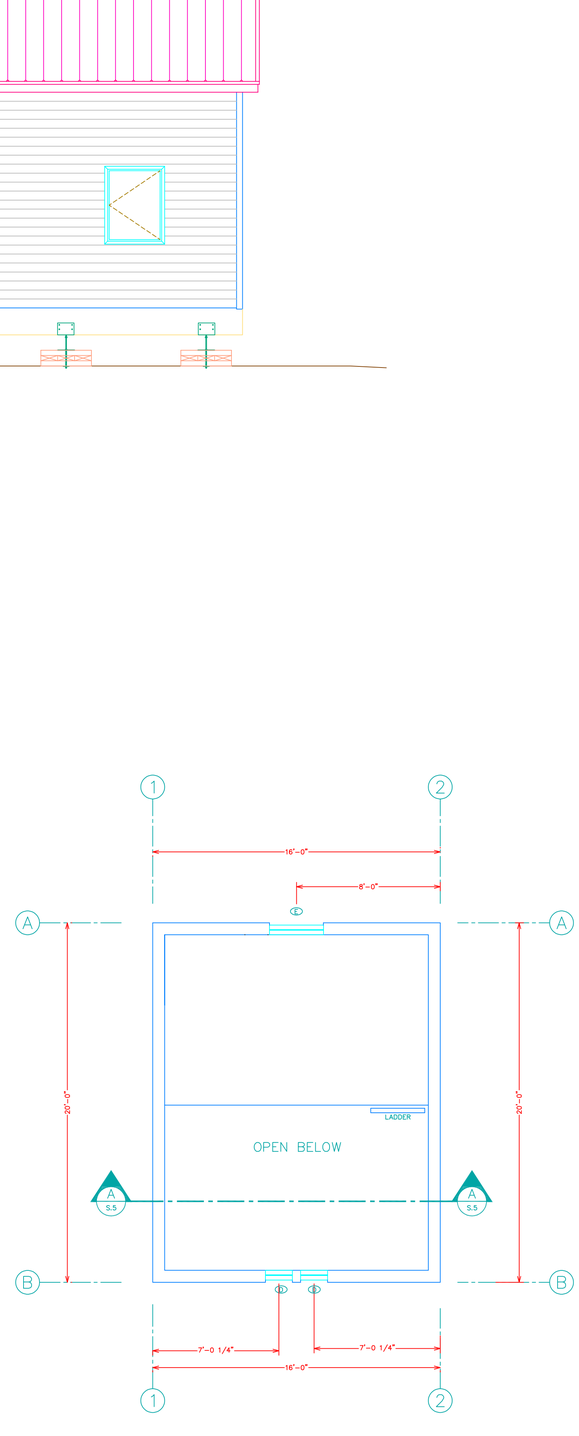
| DESIGNATION | TYPE | WIDTH | HEIGHT | ROUGH OPENING | SWING | DESCRIPTION |
|---|---|---|---|---|---|---|
| 1 | FIBERGLASS | 36" | 80" | 38"x81-½" | LHIS | COLONIAL 6 PANEL |

WINDOW SCHEDULE

| DESIGNATION | MANUFACTURER | SIZE | OPENING | HARDWARE | DESCRIPTION |
|---|---|---|---|---|---|
| A | ALPINE 80 SERIES | 36"x36" | SL | STD | |
| B | ALPINE 80 SERIES | 36"x48" | RH | STD | |
| C | ALPINE 80 SERIES | 36"x48" | LH | STD | |
| D | ALPINE 80 SERIES | 18"x18" | P | STD | |
| E | ALPINE 80 SERIES | 36"x48" | LH | STD | |




FIRST FLOOR PLAN
SCALE: 1/4"=1'-0"




LOFT FLOOR PLAN
SCALE: 1/4"=1'-0"

# 320 SQFT / 16'x20'
# FLOOR PLAN & ELEVATION

| NO. | REVISION | DATE |
|---|---|---|
| | | |

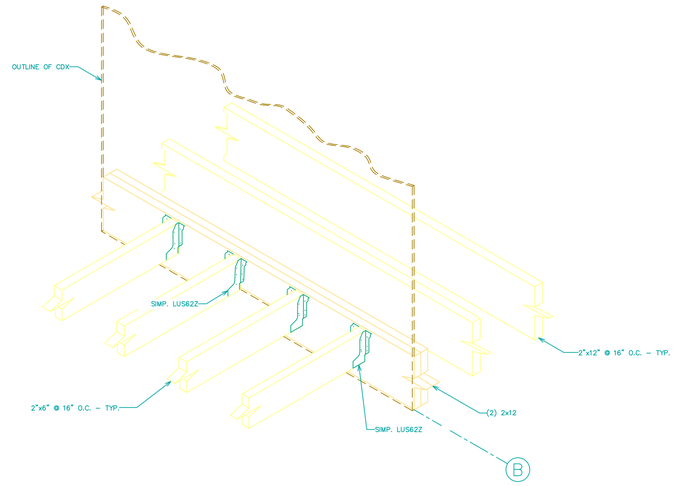
PROJECT NAME & ADDRESS:
SPENARD BUILDERS SUPPLY
4412 LOIS DRIVE
ANCHORAGE, ALASKA 99517

| | |
|---|---|
| FIRST FLOOR SQFT: | 320 |
| SECOND FLOOR SQFT: | N/A |
| BASEMENT FLOOR SQFT: | N/A |
| TOTAL LIVING SQFT: | 320 |
| GARAGE SQFT: | 320 |

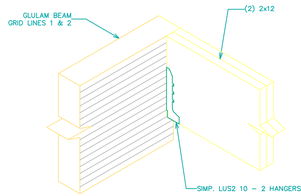
Spenard Builders Supply
PROBuild
4412 Lois Drive
ANCHORAGE, ALASKA 99517
PH: (907) 563-1141
Fax: (907) 261-8140



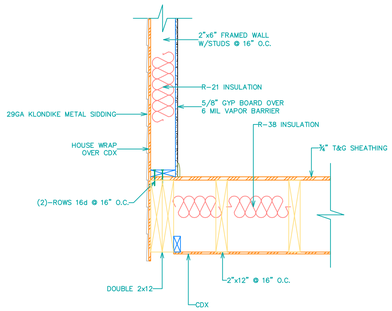
DRAWN BY: KRISTINA GATES
DATE: 12/17/2021
FILE NAME: LOUDEN TRIBE DWG
SCALE: 1/4"=1'0"
SHEET: A 1




A S.2 JOIST ATTACHMENT AT DECK
SCALE: 3/4"=1'0"



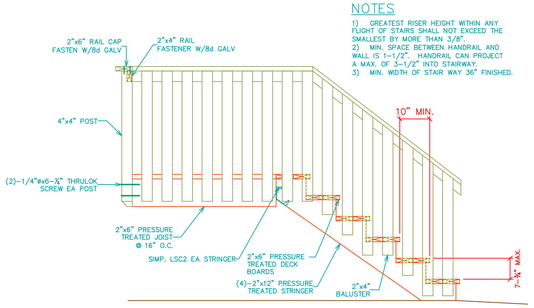

B S.2 END JOIST CONNECTION
SCALE: 3/4"=1'0"



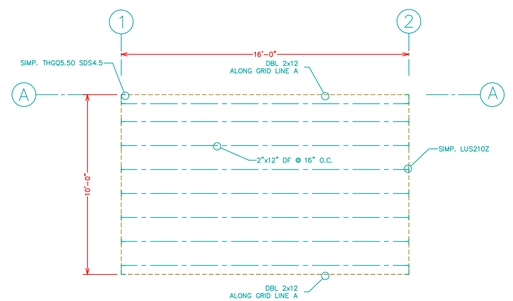

C S.2 JOIST FRAMING DETAIL
SCALE: 3/4"=1'0"



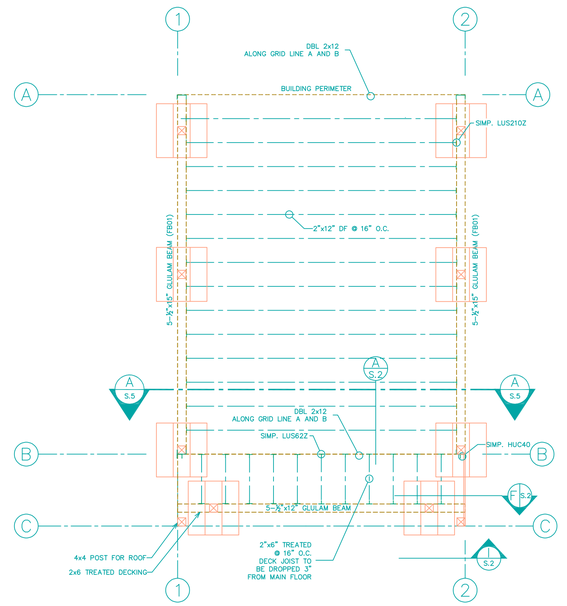

D S.2 JOIST FRAMING DETAIL
SCALE: 3/4"=1'0"




E S.2 STAIRS DETAILS
SCALE: 1/2"=1'0"




LOFT FLOOR FRAMING PLAN
SCALE: 1/4"=1'-0"




FIRST FLOOR FRAMING PLAN
SCALE: 1/4"=1'-0"

320 SQFT / 16'x20'
FRAMING PLAN

| NO. | REVISION | DATE |
|---|---|---|
| | | |

PROJECT NAME & ADDRESS:
SPENARD BUILDERS SUPPLY
4412 LOIS DRIVE
ANCHORAGE, ALASKA 99517

FIRST FLOOR SQFT: 320
SECOND FLOOR SQFT: N/A
BASEMENT FLOOR SQFT: N/A
TOTAL LIVING SQFT: 320
GARAGE SQFT: N/A

Spenard Builders Supply
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Fax: (907) 261-9140



DRAWN BY: KRISTINA GATES
DATE: 12/17/2021
FILE NAME: LOUDEN TRIBE DWG
SCALE: 1/4"=1'0"
SHEET: S.2

| ZONE | DESIGN LOADS | SHEATHING INDEX | SHEATHING NAILING |
|---|---|---|---|
| 1 | TCLL = 50 PSF | | BN = 8d @ 3" O.C. |
| | TCDL = 15 PSF | APA 24/16 | EN = 8d @ 3" O.C. |
| | BCDL = 5 PSF | | FN = 8d @ 8" O.C. |
| 2 | TCLL = 65 PSF | | BN = 8d @ 3" O.C. |
| | TCDL = 15 PSF | APA 32/16 | EN = 8d @ 3" O.C. |
| | BCDL = 5 PSF | | FN = 8d @ 8" O.C. |
| 3 | TCLL = 85 PSF | | BN = 8d @ 3" O.C. |
| | TCDL = 15 PSF | APA 40/20 | EN = 8d @ 3" O.C. |
| | BCDLL = 5 PSF | | FN = 8d @ 8" O.C. |
| 4 | TCLL = 105 PSF | | BN = 8d @ 3" O.C. |
| | TCDL = 15 PSF | APA 40/20 | EN = 8d @ 3" O.C. |
| | BCDL = 5 PSF | | FN = 8d @ 8" O.C. |

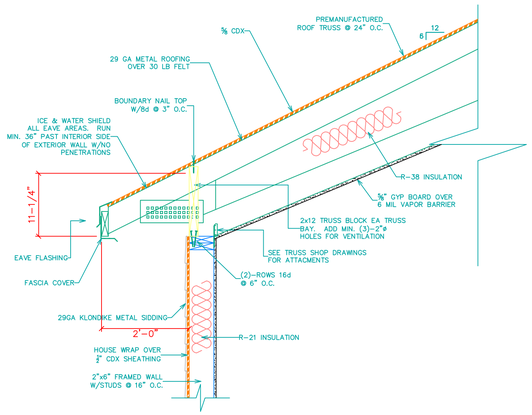
BN = BOUNDRY NAIL

EN = EDGE NAIL

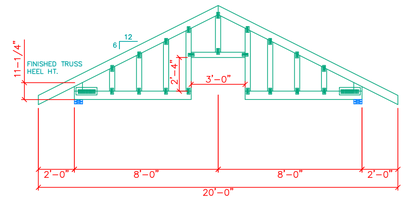
FN = FIELD NAIL

# TRUSS FRAMING NOTES

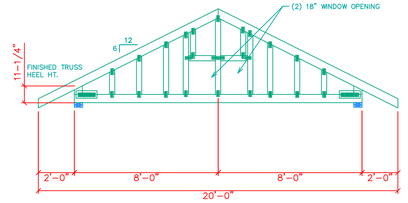
1. TRUSS LAYOUT SHOWN FOR DESIGN REFERENCE ONLY – USE MANUFACTURE'S SPECS.
2. TYPICAL TRUSS BRACING SHALL BE CONT. 2x4 FLAT @ 48" O.C. W/(2) 16d PER TRUSS W/"X" BRACING @ ENDS.
3. ALL TRUSS HEELS SHALL BE MIN. OF 11-1/4" WITH SOLID BLOCKING IN-BETWEEN EA. TRUSS. BLOCKING TO HAVE A MIN. OF 3 HOLES – 2"ø COVERED W/NON-CORROSIVE SCREEN.
4. RESTRAINT OF THE TRUSS MANUFACTURERS' PERMANENT BRACING IS REQUIRED IN ACCORDANCE WITH IRC R802.10.3 OR IBC 2303.4.3 AS APPLICABLE. TRUSS BRACING RESTRAINT SHALL BE INSTALLED IN ACCORDANCE W/APPROVED ENGINEERING DETAILS OR BCSI 1-03 (BUILDING COMPONENT SAFETY INFORMATION-GUIDE TO GOOD PRACTICE FOR HANDLING, INSTALLING & BRACING OF METAL PLATE CONNECTED WOOD TRUSSES).



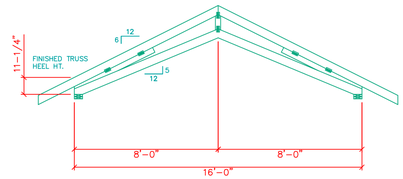

A S.3 HEEL DETAIL (TYP.)
SCALE: 3/4"=1'-0"



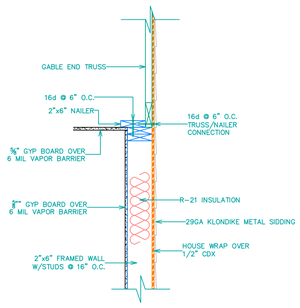

TRUSS TYPE A01
SCALE: 1/4"=1'-0"



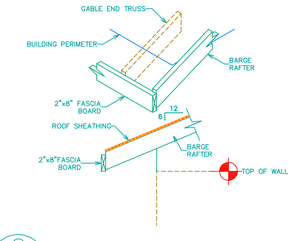

TRUSS TYPE A03
SCALE: 1/4"=1'-0"



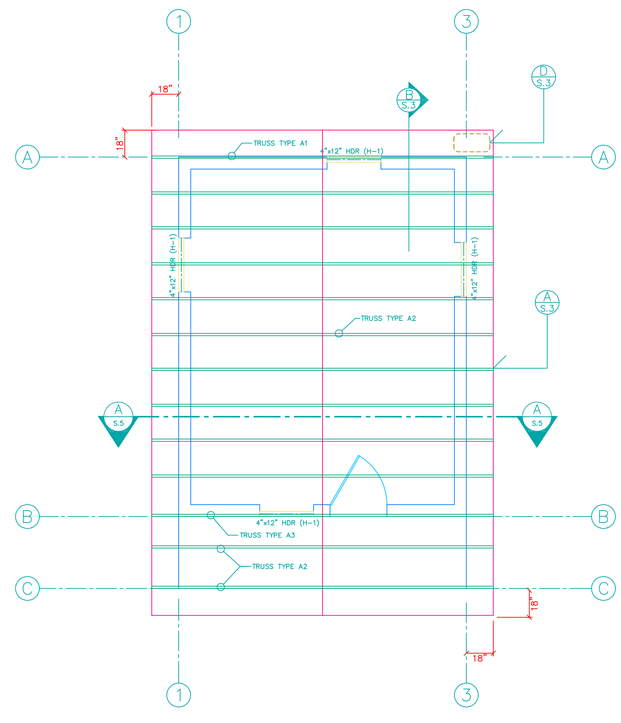

TRUSS TYPE A02
SCALE: 1/4"=1'-0"




B S.3 GABLE TRUSS CONNECTION
SCALE: 3/4"=1'-0"




C S.3 BARGE DETAIL–TYP.
SCALE: 1/2"=1'-0"




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

320 SQFT / 16'x20'
ROOF FRAMING PLAN

| NO. | REVISION | DATE |
|---|---|---|
| | | |

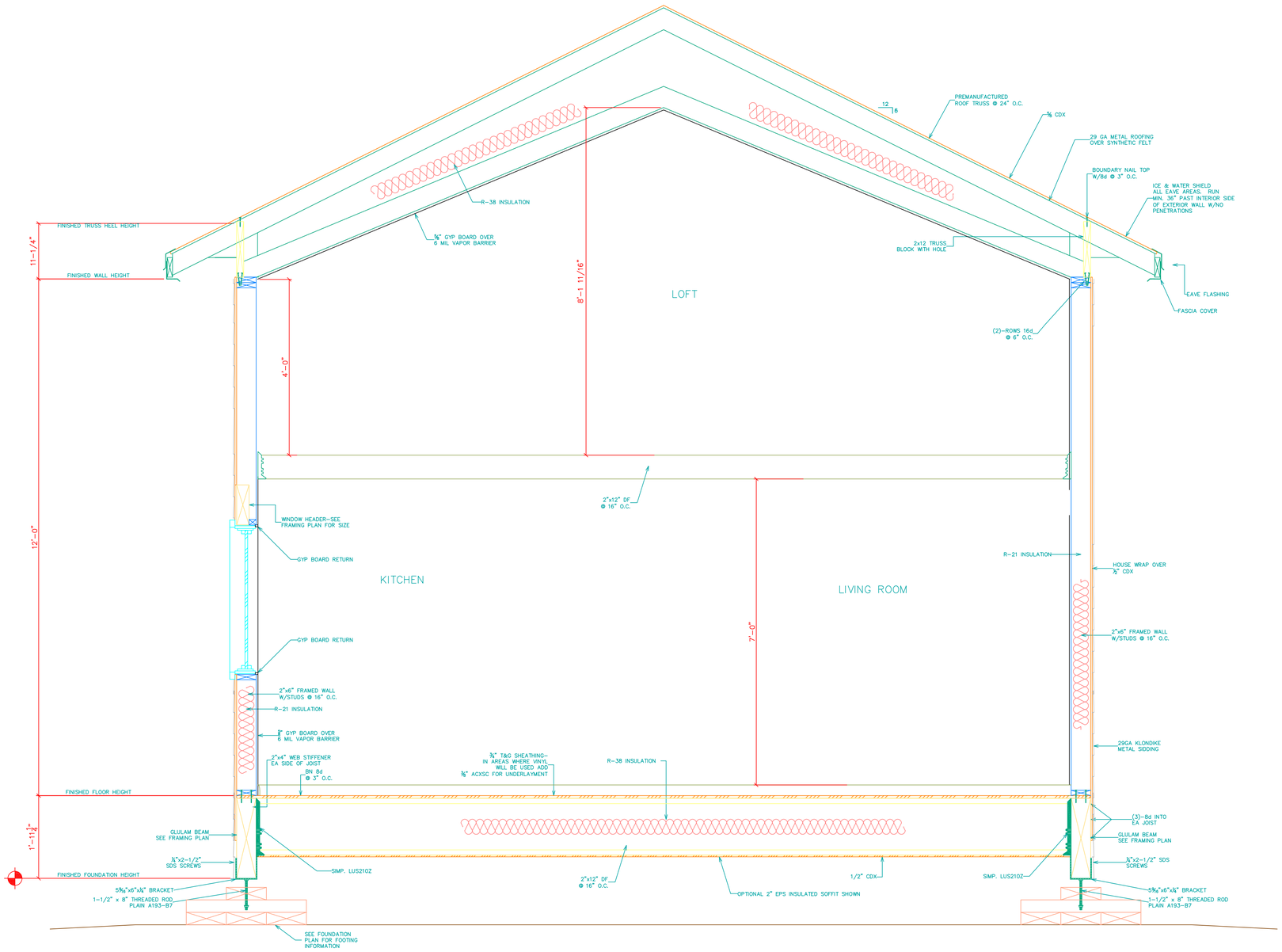
PROJECT NAME & ADDRESS:
SPENARD BUILDERS SUPPLY
4412 LOIS DRIVE
ANCHORAGE, ALASKA 99517

| | |
|---|---|
| FIRST FLOOR SQFT: | 320 |
| SECOND FLOOR SQFT: | N/A |
| BASEMENT FLOOR SQFT: | N/A |
| TOTAL LIVING SQFT: | 320 |
| GARAGE SQFT: | N/A |

Spenard Builders Supply
PRODUCING!
4412 Lois Drive
ANCHORAGE, ALASKA 99517
PH: (907) 563-1441
Fax: (907) 261-9140



| | |
|---|---|
| DRAWN BY: | KRISTINA GATES |
| DATE: | 12/17/2021 |
| FILE NAME: | LOUDEN TRIBE DWG |
| SCALE: | 1/4"=1'0" |
| SHEET: | S.3 |




## CROSS SECTION A/S.5

SCALE: 3/4"=1'-0"

# 320 SQFT / 16'x20'
# CROSS SECTION

| NO. | REVISION | DATE |
|---|---|---|
| | | |

PROJECT NAME & ADDRESS:
SPENARD BUILDERS SUPPLY
4412 LOIS DRIVE
ANCHORAGE, ALASKA 99517

FIRST FLOOR SQFT: 320
SECOND FLOOR SQFT: N/A
BASEMENT FLOOR SQFT: N/A
TOTAL LIVING SQFT: 320
GARAGE SQFT: N/A

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DRAWN BY: KRISTINA GATES
DATE: 12/17/2021
FILE NAME: LOUDEN TRIBE DWG
SCALE: 3/4"=1'0"
SHEET: S.4

# GENERAL NOTES:

1. THE CONTRACTOR IS RESPONSIBLE TO CHECK THE PLANS AND IS TO NOTIFY THE DESIGNER OF ANY ERRORS OR OMISSIONS PRIOR TO THE START OF CONSTRUCTION.

2. WRITTEN DIMENSIONS HAVE PRECEDENCE OVER SCALED DIMENSIONS. DO NOT SCALE THE DRAWINGS.

3. INSULATION: (MIN. VALUES) – ROOF (VAULTED) R–38 – ROOF (FLAT) R–38 CRAWL SPACE / BASEMENT WALL R–19.

4. ALL EXPOSED INSULATION IS TO HAVE A FLAME SPREAD RATING OF LESS THAN 25 AND A SMOKE DENSITY RATING OF LESS THAN 450. COVER ANY FOAM PLASTIC INSULATION WITH ONE–HALF INCH THICK GYPSUM BOARD OR PLYWOOD.

5. ALL CONCRETE SLABS TO HAVE CONTROL JOINTS.

6. EXCAVATE THE SITE TO PROVIDE A MINIMUM OF 18" CLEARANCE UNDER ALL GIRDERS.

7. COVER ENTIRE CRAWL SPACE W/6–MIL POLY. LAP PERIMETER FOOTINGS 12". LAP ALL SEAMS 12".

8. MINIMUM CRAWL SPACE CROSS VENTILATION SHALL NOT BE LESS THAN 1 SQUARE FOOT FOR EACH 150 SQUARE FEET OF CRAWL SPACE AREA. VENTS SHALL BE A MINIMUM OF 8"x14" DAMPERED VENTS, CLOSEABLE, COVERED W/A CORROSIVE RESISTANT 1/4" MESH SCREEN. LOCATE ONE OPENING WITHIN 3'–0" OF EACH CORNER OF THE BUILDING

9. ALL WOOD IN CONTACT WITH CONCRETE OR MASONRY IS TO BE PRESSURE–PRESERVATIVE–TREATED.

10. ALL EXTERIOR OPENINGS AND BEARING WALL OPENINGS TO A HAVE 4x12 HEADERS UNLESS OTHERWISE NOTED. USE (2) 2x STUDS UNDER ALL HEADERS OVER 4 FEET LONG IF THEY SUPPORT SECOND FLOOR LOADS.

11. PROVIDE FIRE BLOCKING, DRAFT STOPS AND FIRE STOPS AS PER THE IBC 2009.

12. EACH BEDROOM TO HAVE MINIMUM WINDOW OPENING OF 5.7 SQ.FT. WITH A MIN. WIDTH OF 20" AND MINIMUM HEIGHT OF 24", AND A SILL LESS THAN 44" OFF THE FLOOR, UNLESS IT IS IN A BASEMENT.

13. ALL WINDOWS WITHIN 18" OF THE FLOOR OR WITHIN 24" OF ANY DOOR NEED TO BE TEMPERED GLASS.

14. SKYLIGHTS WILL BE GLAZED, W/TEMPERED GLASS ON OUTSIDE AND LAMINATED GLASS INSIDE (UNLESS PLEXIGLASS.)

15. IF TUB OR SHOWER HAS AN ENCLOSURE, IT MUST BE GLAZED W/SAFETY GLAZING.

16. ALL EXTERIOR WINDOWS ARE TO BE DOUBLE INSULATED GLASS AND ALL EXTERIOR DOORS ARE TO BE SOLID CORE WOOD OR INSULATED FIBERGLASS W/WEATHER STRIPPING. PROVIDE 1/2" DEAD BOLT LOCK ON ALL EXTERIOR DOORS AND LOCKING DEVICES ON ALL DOORS OR WINDOWS WITHIN 10' (VERTICAL) OF GRADE.

17. LOCATE SMOKE/CARBON MONOXIDE DETECTORS IN EACH SLEEPING ROOM & OUTSIDE OF EACH SEPARATE SLEEPING AREA IN THE IMMEDIATE VICINITY OF BEDROOMS AND EACH ADDITIONAL STORY OF THE DWELLING, CONNECT SMOKE DETECTORS TO HOUSE ELECTRICAL SYSTEM W/BATTERY BACKUP AND INTERCONNECT EACH ONE SO THAT WHEN ONE IS TRIPPED, THEY WILL ALL SOUND. LOCATE IN BASEMENTS AND CELLARS, YET NOT REQUIRED IN CRAWL SPACES.

18. ALL OUTLETS IN BATHROOMS, GARAGE, AND OUTLETS ACCESSIBLE FROM EXTERIOR (INCLUDING HEAT BOLT HEATERS) SHALL BE GFCI PROTECTED.

19. PROVIDE COMBUSTION AIR VENTS FOR FIREPLACES AND ANY APPLIANCES WITH AN OPEN FLAME.

20. BATHROOMS AND UTILITY (LAUNDRY) ROOMS ARE TO BE VENTED TO THE OUTSIDE WITH A MINIMUM OF A 90 CFM FAN. RANGE HOODS ARE ALSO TO BE VENTED TO OUTSIDE. SCREW ALL DUCTWORK TOGETHER AND SEAL WITH DUCT TAPE OR SILICONE SEALANT, USE 3 SCREWS AT EACH JOINT. EXHAUST FROM DRYER SHALL BE VENTED TO EXTERIOR WITH DUCTWORK AS DESCRIBED ABOVE, BUT USE POP–RIVETS INSTEAD OF SCREWS.

21. ALL TRUSSES TO HAVE 11–1/4" ARCTIC HEEL MIN.

22. STRAP WATER HEATERS TO WALL, INSTALL BLOCKING BETWEEN STUDS TO ACCEPT BOLTS FROM STRAP.

23. DOOR BETWEEN GARAGE AND LIVING AREAS TO BE 1–3/8 INCHES THICK, SOLID CORE WITH AT LEAST 2 SELF CLOSING HINGES AND LINED WITH SMOKE GASKET.

24. GYPSUM BOARD WALL COVERING IN GARAGE MUST EXTEND TO MASONRY FOUNDATION WALL OR CONCRETE SLAB WITH NO BREAKS BEHIND ALL PLATFORMS, STAIRS, ETC.

25. ALL GAS FIRED APPLIANCES IN GARAGE OR ADJACENT SPACES SHALL BE LOCATED 18" ABOVE GARAGE FLOOR.

26. IF SOILS REPORT FOR THE SITE INDICATES SHALLOW WATER, THEN INSTALL A PERIMETER FOUNDATION DRAIN SYSTEM. THE SYSTEM DRAIN SHOULD EITHER BE DAYLIGHT AT A SIDE SLOPE OR RUN TO A SUMP W/A SUMP PUMP.

27. TYPE "X" GYPSUM BOARD USED FOR GARAGE WALL AND CEILINGS SHALL BE 5/8" THICK. IF THE CEILING FRAMING IS TJI OR OTHER MANUFACTURED WOOD JOISTS, USE (2) LAYERS OF 1/2" TYPE "X", GYPSUM WALL BOARD ON GARAGE CEILING.

28. ELECTRIC CONDUCTORS IN UNFINISHED AREAS MUST BE PHYSICALLY PROTECTED.

29. ALL EXPOSED WOOD ON EXTERIOR OF THE HOUSE SHALL BE PROTECTED.

30. BACKING FOR TILE ON EXTERIOR WALLS SHALL BE DENS–SHIELD.

31. TWO DEDICATED 20AMP APPLIANCE CIRCUITS ARE REQUIRED ABOVE KITCHEN COUNTER TOP. TWO ADDITIONAL DEDICATED CIRCUITS, ONE FOR THE DISHWASHER AND THE OTHER FOR THE GARBAGE COMPACTOR. LOCATE A DUPLEX OUTLET BEHIND THE STOVE AND REFRIGERATOR.

32. ALL EXTERIOR FAUCETS TO BE FROST FREE (ARCTIC FAUCET) WITH ANTI–SIPHON DEVICE.

33. PROVIDE POSITIVE CONNECTION AT BEAM POCKETS FOR BEAM GIRDERS & HEADERS.

34. THE NET FREE VENTILATION, IF REQUIRED, TO BE 1/150 OF THE ENCLOSED AREA WITH HALF OF THE REQUIRED VENT 3 FEET ABOVE EAVE OR CORNICE VENTS. (IRC)

# STRUCTURAL NOTES:

## SOILS:

1. ALLOWABLE BEARING STRENGTH ASSUMED TO BE 1500PSF, WITH 33% INCREASE FOR SEISMIC OR WIND LOADS UNLESS NOTED OTHERWISE.

## CONCRETE:

1. PORTLAND CEMENT CONCRETE TO HAVE MINIMUM 28 DAY COMPRESSIVE STRENGTH, F'c=3000 PSI. 5 SACK (MINIMUM DESIGN MIX. MAXIMUM AGGREGATE SIZE 3/4".

2. CONCRETE REINFORCEMENT TO BE ASTM A615, GRADE 60, DEFORMED BARS.

## WOOD:

1. FRAMING LUMBER ASSUMED SPF/HEM–FIR/DOUGLESS FIR, #2 OR BETTER; BOTTOM PLATES AT CONCRETE ASSUMED TREATED #2 HEM–FIR.

2. TRUSS LUMBER ASSUMED TRUSS GRADE.

3. BLOCKING NOT REQUIRED ROOF/FLOOR DIAPHRAGMS UNLESS NOTED OTHERWISE; BOUNDARY NAIL ROOFS AT 3" O.C., PANEL EDGES AT 4" O.C., AND FIELD AT 8" O.C. BOUNDARY NAIL FLOORS AT 4" O.C., PANEL EDGES AT 4" O.C., AND FIELD AT 12" O.C.

4. SHEAR WALL/ROOF DIAPHRAGMS/FLOOR DIAPHRAGM STAPLING/NAILING SPECIFIED REFERS TO PANEL EDGE AND BOUNDARIES; FIELD FASTEN AT 12" O.C., FLOORS AND WALLS. FIELD FASTEN ROOFS AT 8" O.C., UNO.

5. MULTIPLE STUD SPLICES–USE TWO ROWS 16d COM @ 6" O.C., MIN.

6. MULTIPLE LVL–SPLICE W/2ROWS 16d COM @ 6" O.C., 2" FROM TOP AND 2" FROM BOTTOM.

7. 3" MEMBERS REQUIRED AT ABUTTING PANEL JOINTS AND STAPLES/NAILS SHALL BE STAGGERED WHERE NAIL SPACING IS 2" O.C. AND WHERE 10d NAILS PENETRATING MORE THAN 1–1/2" AER PLACED AT 3" OR LESS O.C. 3" BOTTOM PLATES ARE REQUIRED WHERE UNIT SHEAR LOADS EXCEED 600 PLF.

8. GLULAM MEMBERS: SINGLE SPAN–RATED 24F–V4, DF/DF; MULTIPLE SPAN–RATED 24F–V8, DF/DF.

9. APA RATED SHEATHING REQUIRED FOR SHEAR WALLS, FLOOR AND ROOF DIAPHRAGMS. WALL SHEATHING MAY BE INSTALLED HORIZONTALLY OR VERTICALLY. IF INSTALLED HORIZONTALLY, BLOCK ALL PANEL EDGES.

10. WHERE T–111 SIDING IS USED FOR SHEAR SHEATHING, MINIMUM THICKNESS SHALL BE 19/32". ALL NAILING MUST BE THROUGH FULL THICKNESS. BLOCK ALL JOINTS IF FULL HEIGHT SIDING.

11. FASTENER & DIAPHRAGM VALUES PER IBC 2009, CORRECTED FOR HEM–FIR.

12. PLYWOOD MAY BE SUBSTITUTED FOR OSB, SAME THICKNESS, SAME APA RATING.

13. USE APA RATED SHEATHING AS FOLLOWS, UNLESS NOTED OTHERWISE:
    SHEAR WALLS AND ROOFS, NON DRIFT AREAS 24/16.
    ROOFS, VALLEYS AND UPPER DRIFT AREAS 32/16.
    ROOFS, BELOW UPPER ROOFS AND WHERE WALL CAUSING DRIFTS IS 6' OR HIGHER 40/20.

14. 8d NAILS CAN BE SUBSTITUTED FOR 14 GA STAPLES, UNLESS NOTED OTHERWISE.

15. ANCHOR BOLTS PER SCHEDULE; ALL ELSE IBC MINIMUM 5/8"x12" AT 4'–0" O.C.

16. HOLD DOWNS & ANCHOR BOLTS SHOWN ARE SIMPSON OR AS APPROVED BY MOA.

17. HOLD DOWN VALUES PER SIMPSON HEM–FIR TABLES.

18. GWB PER IBC MINIMUM; NOT USED FOR SHEAR.

19. HANGERS, STRAPS, SADDLES, AND OTHER HARDWARE AREA AS MANUFACTURED BY SIMPSON STRONGTIE. VALUES CORRECTED FOR HEM FIR AS REQUIRED.

## STEEL:

1. PLATE, CHANNEL, ANGLE – ASTM A36; WIDE FLANGE – ASTM A992, GR 50.

2. ANCHOR BOLTS AND MACHINE BOLTS–ASTM A307, UNO.

3. HSS – [ROUND, SQUARE, RECTANGULAR SECTIONS] ASTM A500 GRADE B $F_y$=46 KSI.

4. PIPE ASTM A53 GRADE B $F_y$=35 KSI.

## SHEARWALL NOTES:

1. 3x MEMBERS AREA REQUIRED AT ABUTTING PANEL EDGES WHERE SPACING IS 2" O.C. AND WHERE 10d NAILS PENETRATING MORE THAN 1–1/2" INTO RECEIVING MEMBER ARE SPACED AT 3" O.C. OR LESS. FRAMING MEMBERS IN WALLS WITH SHEARS > 350 PLF WITH ABUTTING PANELS RECEIVING EDGE NAILING SHALL BE 3x. 2x SILL PLATES MAY BE USED FOR WALL WITH SHEARS > 350 PLF AND < 600 PLF IF ANCHOR BOLT SPACING IS ONE–HALF THAT REQUIRED BY THE DESIGN.

2. VALUES SHOWN ARE FOR HEM–FIR FRAMING MEMBERS. NAIL EQUIVALENT TO 14 GA STAPLES IS .131x2"

3. OFFSET STAGGER NAILS FROM SIDE TO SIDE FOR DOUBLE SHEATHING. PROVIDE TWO ROWS NAILS, STAGGERED WHERE 2" O.C. NAILING OCCURS. BLOCK ALL SHEATHING EDGES. INSTALL SHEATHING HORIZONTALLY OR SUBSTITUTE 15/32" SHEATHING FOR 7/16" SHEATHING.

4. BOTTOM PLATE ATTACHMENT ASSUMES SOLID MEMBERS BELOW.

5. WHERE BOTTOM PLATES REST DIRECTLY ON CONCRETE OR MASONRY, ANCHOR BOLT SCHEDULE SUPERCEDES BOTTOM PLATE FASTENING SCHEDULE. 3"x3"x¼" WASHERS AREA REQUIRED AT ALL SILL ANCHOR BOLTS. 3x SILL PLATES ARE REQUIRED WHERE SHEARS > 600 PLF.

6. VALUES FOR 7/16" SHEATHING TAKEN FROM TABLE 20, ER 2403, NOTE 11, PERMITTING VALUES EQUAL TO 15/32" SHEATHING IF FRAMING IS NOT SPACED GREATER THAN 16" O.C.

# DESIGN CRITERIA, IBC 2009

## WIND

| | |
|---|---|
| BASIC SPEED (3 SEC GUST) | 125 MPH |
| EXPOSURE | C |
| PRESSURES | ASCE 7–98 |
| $\omega$ = | 1.3 |
| $L_w$= | 1.00 |
| INT. PRESSURE COEFF | .18 (±) |

## SEISMIC

| | | | |
|---|---|---|---|
| BASE SHEAR= | .11 *$W_s$ | $S_{ds}$= | 1.039 |
| USE GROUP | L | $S_{ds}$= | .600 |
| DESIGN CATEGORY | D | $S_{ds}$= | 1.550 |
| SITE CLASS | D | $S_1$= | .575 |
| R= | 6.5 | $L_s$= | 1.0 |

SEISMIC LOAD ANALYSIS: SIMPLIFIED METHOD PER IBC 1617.5

## SNOW

| | |
|---|---|
| ROOF SNOW, $P_f$ | 50 PSF |
| GROUND SNOW, $P_g$ | 65 PSF |
| EXPOSURE FACTOR, $C_e$ | 1.0 |
| THERMAL FACTOR, $C_t$ | 1.0 |
| IMPORTANCE FACTOR, I | 1.0 |

## LOADS

| | |
|---|---|
| SNOW LIVE | 50 PSF |
| SNOW SEISMIC | 9 PSF |
| ROOF DEAD | 15 PSF |
| ROOF LIVE | 20 PSF |
| FLOOR DEAD | 15 PSF |
| FLOOR LIVE | 40 PSF |
| EXTERIOR WALLS | 8 PSF |
| INTERIOR WALLS | 6 PSF |
| CMU FOUNDATION | 85 PSF |
| CONCRETE FOUNDATION | 100 PSF |

## SOILS

SOIL BEARING STRENGTH ASSUMED TO BE 1500 PSF WITH 1/3 INCREASE FOR SEISMIC OR WIND LOADS, UNLESS NOTED OTHERWISE.

RETAINING WALL DESIGN BY EQUIVALENT FLUID PRESSURE. SOIL WEIGHT ASSUMED TO BE 40 PCF.

LATERAL LOAD RESISTING SYSTEM:

LIGHT FRAME WALLS WITH WOOD SHEAR PANELS

## ABBREVIATIONS

| | | | |
|---|---|---|---|
| @ | AT | HDR | HEADER |
| AB | ANCHOR BOLT | HD | HOLD DOWN |
| AISC | AMERICAN INSTITUTE OF STEEL CONSTRUCTION | HT | HEIGHT |
| | | HF | HARDY FRAME OR HEM FIR |
| ALT | ALTERNATE | | |
| ASTM | AMERICAN INSTITUTE FOR TESTING MATERIALS | ICBO | INTERNATIONL CONFERENCE OF BUILDING OFFICIALS |
| BLDG | BUILDING | INT | INTERIOR |
| BLK | BLOCK/BLOCKING | | |
| BASE ? | BASE PLATE | J01 | JOIST 01 |
| ? | CENTER LINE | MIN | MINIMUM |
| CMU | CONSTRUCTION MASONRY UNIT | MAX | MAXIMUM |
| COL | COLUMN | NTD | NOTED |
| CONC | CONCRETE | NTS | NOT TO SCALE |
| CONT | CONTINUOUS | O.C. | ON CENTER |
| DBL | DOUBLE | | |
| DF/L | DOUG FIR / LARCH | ? | PLATE |
| DIA | DIAMETER | PSI | POUNDS PER SQUARE INCH |
| DW | DISH WASHER | PSF | POUNDS PER SQUARE FOOT |
| EA | EACH | RB01 | ROOF BEAM 01 |
| ELEV | ELEVATION | REQD | REQUIRED |
| | | RO | ROUGH OPENING |
| FBO1 | FLOOR BEAM 01 | SIMP. | SIMPSON STRONGTIE |
| FF | FINISHED FLOOR | | |
| FIN | FINISH | T&G | TONGUE & GROOVE |
| FLR | FLOOR | TYP | TYPICAL |
| FDN | FOUNDATION | | |
| FTG | FOOTING | UBC | UNIFORM BUILDING CODE |
| FURN | FURNACE | VERT | VERTICAL |
| GA | GAGE | | |
| GALV | GALVANIZED | W/ | WITH |
| GYP | GYPSUM | WH | WATER HEATER |
| | | WWM | WELDED WIRE MESH |
| H–1 | HEADER 01 | | |

320 SQFT / 16'x20'
GENERAL NOTES

| NO. | REVISION | DATE |
|---|---|---|
| | | |

PROJECT NAME & ADDRESS:
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DRAWN BY: KRISTINA GATES
DATE: 12/17/2021
FILE NAME: LOUDEN TRIBE DWG
SCALE: 1/4"=1'0"
SHEET: S 5

# BUILD YOUR OWN CARIBOU HUT

Step-by-step instructions on how you can build your own Caribou Hut in a single weekend.

Spenard Builders Supply

# BUILD YOUR OWN CARIBOU HUT
# EASY AS 1-2-3



**Fast!** Building shell done in a weekend, ready for your choice of finishes.

**Portable!** Most components weigh less than 100lbs and can be handled easily by two people. The 16x20 kit pieces can be transported without heavy equipment

**Flexible!** You choose how big or small to build. Substitute window, door, or wall panels to suit your personal design.

## GAME TRAIL

## FOLLOW THE GAME TRAIL TO YOUR CARIBOU HUT. USE THE TIPS AND PICTURES AS YOUR GUIDE TO ASSEMBLE THE COMPONENTS OF YOUR SHED OR CABIN.

**THE MOST IMPORTANT PART OF YOUR BUILDING IS GETTING A SQUARE, LEVEL, AND PLUMB FOUNDATION UNDER YOUR HUT!**

Whether you use timbers, block, or I-beams, a good foundation determines whether the project will be easy or difficult. The panels cover the floor joists and extend a little below them. You will have to trim panels if the foundation is larger than your kit.

Pier blocks with adjustable saddles helped level the three 20' pressure treated 4x8's we used for these pictures.

The 16x20 diagonal measurements are about 306", this may vary slightly but both diagonals must be even.

Floor Joists are pre-cut to 15'-9 ¾" so the rims make an even 16' wide cabin and are laid out on 24" centers.

Double check measurement of the Rim Joist, trim if necessary.



Attach the Rim board to the floor joist in the corner using 2 ½" screws, if using nails, use an 8D. Lay first full sheet in corner, groove edge flush and to the outside.

Use a block to help protect the tongue when setting subsequent panels.

The last course of Underlayment will need to have the tongue edge ripped down to be flush with the outside edge of the rim board.

Snap guide lines 5 ½" from the outside. You may also want to mark on the floor which panels (W,D,F) you want to go where. That's a big help if your crew is really fast at putting up panels.

If you're using the Grooved T1-11 panels, the shipping protection for the lap edge must be removed.

**Wall Panels:**

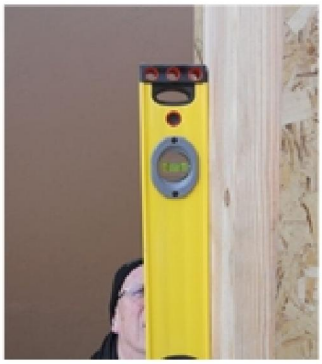
The door panels have a shipping block that must be removed prior to using the panel.

Start with a left L corner panel flush to the outside of the wall and line it up.

Level and brace- This is a very important step, it makes all the rest easy if it's plumb and level.

Pin the bottom plate.

Move a right corner panel R into place and clamp at bottom.



Clamp at the top and check your Snapped lines to be sure panel is flush against the outside of the joists.

Nail the two panels together and pin the bottom plate.
Add another panel. If possible have someone check to be sure the grooves are lining up before you nail the panels together.

When using the Grooved T1-11 panels, you need to tuck the edge under the previous panel. That edge isn't nailed to make it easier.

***Don't nail the seam off yet.*** That happens after the top plate is in place.

Slide the next panel over and tip in place. Repeat the process as outlined until you reach the next corner.
Clamp at top and bottom.

Attach another brace to the wall and check plumb.

Nail the two panels together and pin the bottom plate.
Attach an L panel at the corner, check to be sure everything is still flush and level.

Continue around with a Right Corner panel.

It is possible to work from either or both ends now, but finish in a corner. When attaching the last two panels together, do not pin the bottom plates. The fit is very Tight and you'll need a little wiggle room (or a big hammer)to slide the panels together. Once they're in place, clamp and nail together as before

## Very Top Plate of Wall:

The very top plate aligns and ties the panels together.

Be sure it laps over the corner panel's seams.

Starting in one corner, measure the distance to the next corner, minus the width of the next plate. Using a block of the same material helps because the plate material may not match the panel plate exactly.


Clamp at 3 joints. Use a filler block to protect the grooved panels and help pull joint together evenly. Nail Very top plate together at studs.

Proceed around the walls until Very Top Plate is nailed all the way around.

Now you can nail off the seams of your Grooved panels


## TRUSSES AND GABLE ENDS:

To prevent the first truss from falling off the gable end, fasten a couple of keepers sticking up from the gable end wall. Add a 7/16" spacer (the edge protectors from the grooved panels works well) to account for the sheathing.

Trusses are spaced 24" on center. The Simpson truss spacer-bracer TSB2-24 sets on one truss and captures the next; we used one on each side of the peak about half way down, and one on the bottom cord in the center. Once attached, they remain in place; you sheet right over them.

You can add more TSB2-24's for added stability.

You can also use the 2x4 wall bracing which is no longer needed.

Attach Simpson H2.5 ties at the wall plates as shown.

Use 4 evenly spaced Simpson A34 angles on each gable end truss.

Nail up the ply edge; you can cut to length or overlap.

Measure and cut the first gable end sheet as shown being careful to line up the grooves if you're using the grooved T1-11. ***Note the sheets don't go all the way to the end of the truss.*** You can fill those areas in with smaller cut pieces after the main portion is done.

If you are going to be using a Gable End Vent for ventilation, mark your cuts from the outside under the peak where you want it to go. Caulk the vent in place.

Roof panels run 8" beyond the truss. Subtract ½" for sheathing, then subtract the thickness of your chosen Facia, and cut your blocks to length.

Example: 8”- ½” (siding) - 1” (OSB Smart Trim in our photos) = 6-1/2” blocks.

Place as many as you’d like along the Gable end but at least one at the top and one down towards the eave is minimum.

## EAVE and FACIA:

Start your eave three trusses in from the gable. Measure from the center of that truss to the end of your gable end blocks, see above.

Measure from the center of that truss out the other way to finish the eave run in the same fashion.

Your eave and Fascia should line up.

Measure from the outside of the eave to the center of the peak, the Fascia cut should be 23 degrees.

## ROOF SHEATHING:

Measure from the centerline of the third truss in from the end to the outside of your fascia; cut a sheet of OSB to that length.

Bring the factory edge of OSB even with the centerline of the third truss in from the end. The eave will help hold it up on the roof. It doesn't have to go to the edge of the eave.

Mark the distance to the Fascia and cut your sheet to length. If you use Smart trim for your Fascia, attach with screws rather than nails, they hold better.

Run full sheets past the opposite Fascia; mark and cut the last one flush. Stagger the sheathing joints on the next run. Rip a sheet into 2' x 8' pieces to finish the last run at the peak. Repeat on the other side.

Apply flashing appropriate for your roofing choice. Follow by felt paper or equivalent substitute. Make sure to lap joints.

**SOFFIT:**
Start at one end and cut the 1x2 to make a stop at the gable end truss. We used 1x8 and 1x6 tongue and groove with the grooves facing each other. You may have to rip the tongue off of one to make the fit right. Check your measurements. Then we slid the Continuous Soffit Vent “CSV” in the grooves. You can seal with caulk or just pin into place. Finish with another 1x2.