

**CODE CRITERIA:**

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

- 1. FLORIDA BUILDING CODE, 6TH EDITION
- 2. FIRE PREVENTION CODE, 6TH EDITION

**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.

**BUILDING ADDRESSES:**

- 1. 25 PORTABLE BUILDINGS, LLC
- 2. 355 SAILOR ROAD
- 3. REDLA, AL 36523
- 4. RACELAND PORTABLE BUILDINGS, LLC
- 5. 37 RELIHAN STREET
- 6. MARSON, GA 31642

**GENERAL NOTES:**

STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH THE 2017 FLORIDA BUILDING CODE, 6TH EDITION.

ALL MATERIALS AND LABOR SHALL BE IN ACCORDANCE WITH THE ABOVE CODE AND ALL OTHER APPLICABLE LOCAL CODES AT THE TIME OF MANUFACTURE.

DRAWINGS SHALL NOT BE SCALED FOR DIMENSIONS.

STRUCTURES ARE CLASSIFIED AS "MINOR STORAGE UTILITIES" (OCCUPANCY CATEGORY 1) AND SHOULD NOT BE USED FOR HUMAN HABITATION.

THESE PLANS WERE DESIGNED IN ACCORDANCE WITH THE 2017 FBC, 6TH EDITION FOR A FREE SECOND GUST OF 150 MPH

PSI APPROVAL 2019-03-15

**DESIGN CRITERIA:**

- 1. 2017 FLORIDA BUILDING CODE, 6TH EDITION
- 2. FL FIRE PREVENTION CODE, 6TH EDITION

**DEAD LOADS:**

- 1. FLOOR: 10 PSF
- 2. LOFT: 5 PSF
- 3. ROOF: 10 PSF

**LIVE LOADS:**

- 1. FLOOR: 40 PSF
- 2. LOFT: 10 PSF
- 3. ROOF: 20 PSF (REDUCIBLE)

**SNOW LOADS:**

- 1. GROUND SNOW LOAD,  $P_g=25\text{psf}$
- 2. FLAT ROOF SNOW LOAD,  $P_f=20\text{psf}$
- 3. SNOW EXPOSURE FACTOR,  $C_e=1.2$
- 4. SNOW LOAD IMPORTANCE FACTOR,  $I=0.8$
- 5. THERMAL FACTOR,  $C_t=1.2$

**WIND LOADS:**

- 1. BASIC WIND SPEED,  $V=150\text{ MPH}$
- 2. RISK CATEGORY = 1
- 3. WIND EXPOSURE B
- 4. C&C ROOF-ZONE 1=23.3, -37.0 psf
- 5. C&C ROOF-ZONE 2=23.3, -64.5 psf
- 6. C&C ROOF-ZONE 3=23.3, -95.4 psf
- 7. C&C WALL-ZONE 4=40.5, -43.9 psf
- 8. C&C WALL-ZONE 5=40.5, -54.2 psf

**SEISMIC LOADS:**

- 1. 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 FOR THESE ITEMS.

- 1. RAMPS, STAIRS, AND GENERAL ACCESS

**BUILDING SIZES:**

- 1. 10' WIDTH
- 2. 10'x24'
- 3. 14' NOMINAL WIDTH\*
- 4. \*NOTE:(13'-0" ACTUAL)
- 5. 14'x24'
- 6. 14'x28'
- 7. 14'x32'
- 8. 14'x36'
- 9. 14'x40'

**12' NOMINAL WIDTH\*\***

- 1. 12'x20'
- 2. 12'x24'
- 3. 12'x28'
- 4. 12'x32'
- 5. 12'x36'
- 6. 12'x40'

**INDEX OF SHEETS:**

- 1. S-0-PG - COVER SHEET
- 2. S-1-PG - FOUNDATION PLAN
- 3. S-2-PG - UPLIFT ANCHORAGE
- 4. S-3-PG - FRAMING PLAN
- 5. S-4-PG - BUILDING SECTIONS
- 6. S-5-PG - ELEVATIONS
- 7. S-6-PG - NAIL PATTERN
- 8. S-7-PG - DETAILS
- 9. S-8-PG - DETAILS



RAILROAD CONSULTANTS, PLLC  
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PHONE: (615) 663-1142

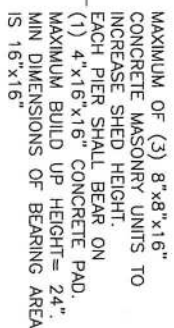


GRACELAND PORTABLE BUILDINGS, LLC  
6807 HWY 62 WEST  
BARDWELL, KY 42023  
PHONE: (866) 574-7446

PROJECT NO:	14017
DATE:	12-29-17
DRAWN BY:	JGG
CHECKED BY:	DBG
REVISION:	02

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

**PORTABLE GARAGE---FL---V=150MPH---FBC 2017**



## FOUNDATION:

-2x6 PT FLOOR JOIST @ 12" O.C.

CMU	$f'_m = 1,500$	PS
MORTAR	$f'_m = 1,900$	PS
GROUT	$f'_m = 3,500$	PS

CONCRETE:

1. MATERIALS (COMPRESSIVE STRENGTH AT 28 DAYS),  
FOOTINGS 3,000 PSI

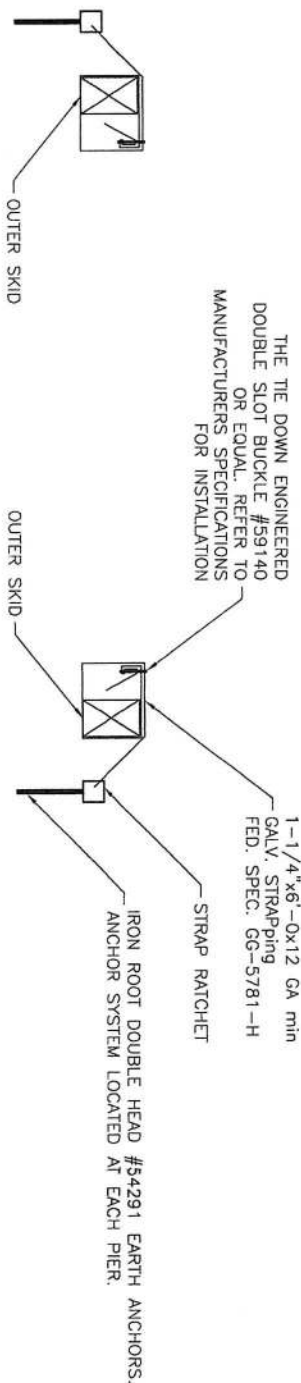
THESE PLANS WERE DESIGNED IN ACCORDANCE WITH THE 2017 FBC, 6TH EDITION FOR A THREE SECOND GUST OF 150 MPH



PROJECT NO: 14017

**S-1-PG**

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



# ANCHOR TIE DOWN DETAIL

FOUNDATION ANCHORING TIE DOWN SYSTEM TO BE SITE DESIGNED AND LOCALLY PERMITTED

THESE PLANS WERE DESIGNED IN ACCORDANCE WITH THE 2017 FBC, 6TH EDITION FOR A FREE SECOND GUST OF 150 MPH

STATE OF FLORIDA  
PROFESSIONAL ENGINEER  
No. 74828

**psi**  
intertek

10001 4710719

10001 4710719

Plans Review: Victor C. Martin, PE  
FL PE #82379, LA PE #42017  
LSUCC #U02436, TN PE #120939

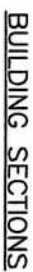
# PORTABLE GARAGE---FL---V=150MPH---FBC 2017

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PROJECT NO: 14017	SHEET NUMBER
DATE: 12-29-17	S-2-PG
DRAWN BY: JGG	
CHECKED BY: DBG	
REVISION: 02	SCALE: 1/4"=1'-0

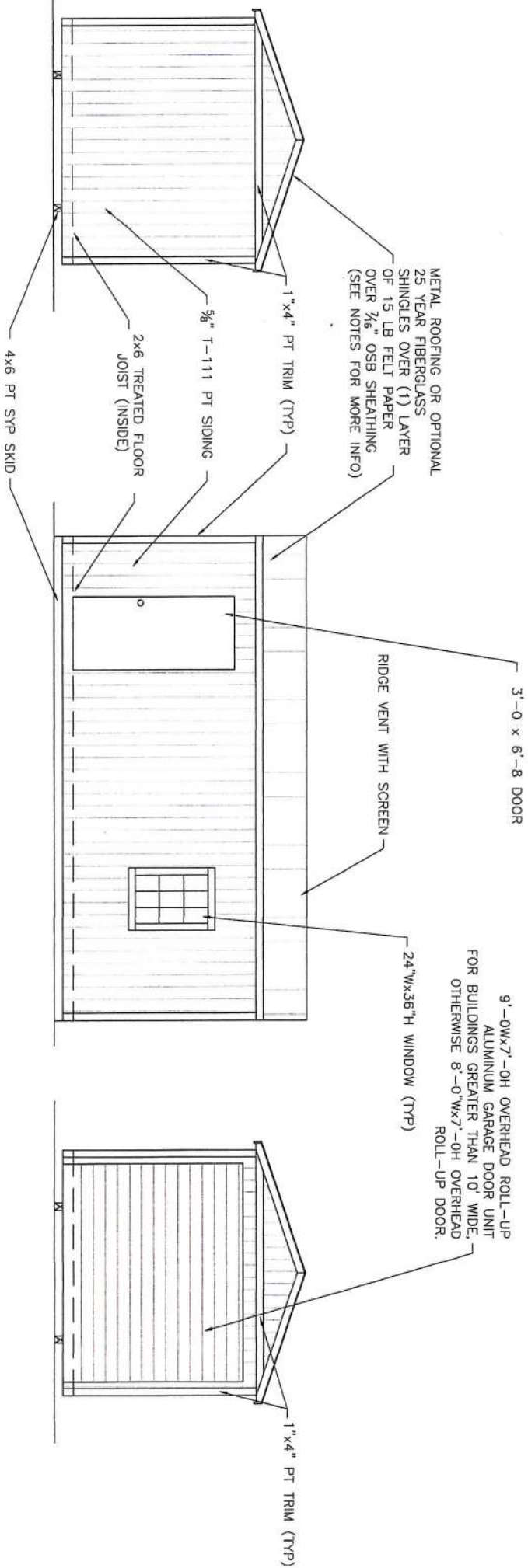




\*NOTE: ON 10'-0" WIDE BUILDINGS THE OUTER SKIDS ARE SPACED AT 12" FROM THE EXTERIOR OF THE BUILDING (EXCLUDING THE SHEATHING).

# PORTABLE GARAGE--FL--V=150MPH--FBC 2017





**END WALL ELEVATION**

**SIDE WALL ELEVATION**

**END WALL ELEVATION 2**

**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 MANUFACTURER'S INSTRUCTIONS AND SPACED A MAXIMUM OF 36" APART.

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SHEET APPROVAL STAMP

**PROFESSIONAL ENGINEER**  
STATE OF FLORIDA  
No. 74828  
L-17817

**psi**  
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10000 W. BOULEVARD  
SUITE 100  
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PLANS REVIEW: VICTOR C. MARTIN, PE  
FL PE #82379, LA PE #42017  
LSUCC #U02436, TN PE #120939

**PORTABLE GARAGE--FL--V=150MPH--FBC 2017**

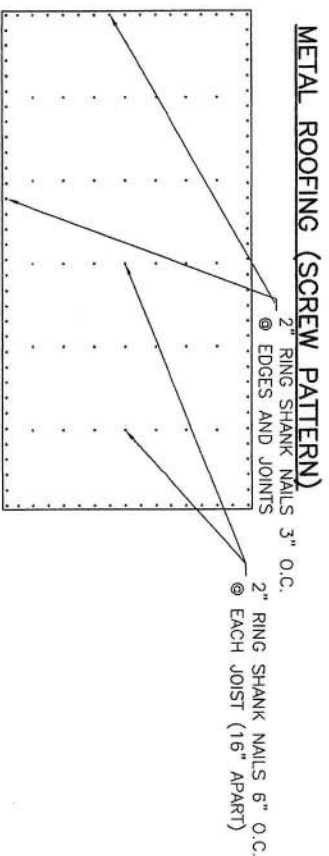
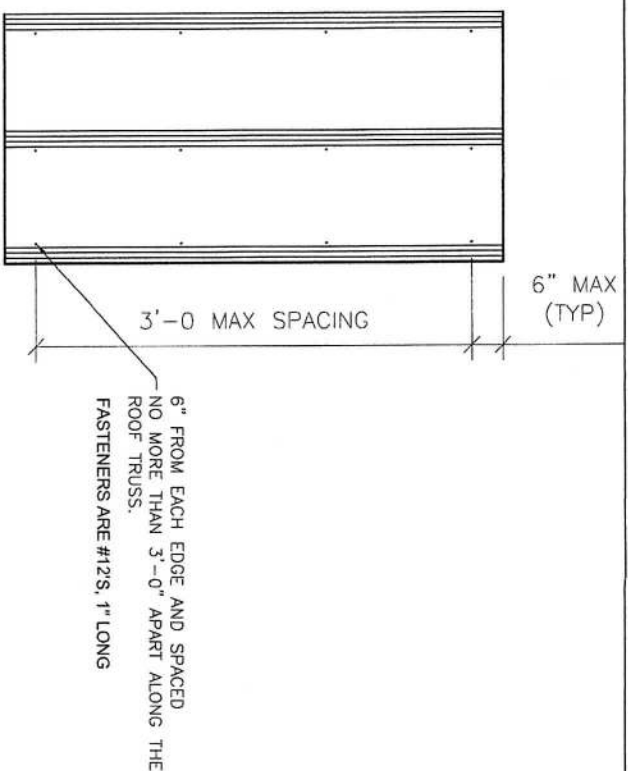
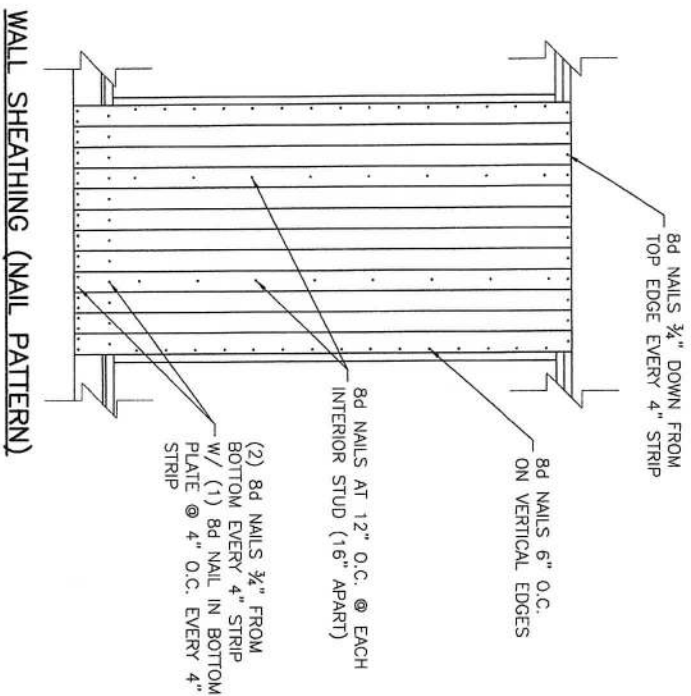
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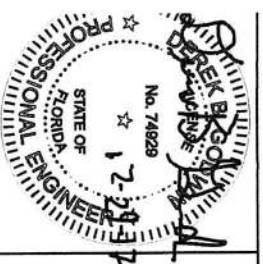
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SHEET NUMBER
<b>S-5-PG</b>
SCALE: 1/4"=1'-0"



THESE PLANS WERE DESIGNED IN ACCORDANCE WITH THE 2017 FBC, 6TH EDITION FOR A WIND SPEED OF 150 MPH

**FLOOR SHEATHING (NAIL PATTERN)**



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Plans Reviewer: Victor C. Martin, PE  
FL PE #82379, LA PE #42017  
LSUCCC #002436, TN PE #120939



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**S-6-PG**  
SCALE: 1/2"=1'

**PORTABLE GARAGE--FL--V=150MPH--FBC 2017**

2"x4" STRUCTURAL  
MENDING PLATE (EA SIDE)  
CH 20 MPC FLORIDA  
PRODUCT APPROVAL FL18580

NOTE:  
ALL MEMBERS  
ARE 2x4

Diagram illustrating the cross-section of a roof assembly with the following components and fasteners:

- 2x4 ROOF TRUSS @ 24" O.C.**: The main structural support.
- 1"x4" TRIM (SEE ELEVATIONS)**: A horizontal trim piece attached to the truss.
- (5) 3"x0.120" NAILS 2x6 TO TRUSS TYPICAL EACH END**: Five nails securing the 2x6 sheathing to the truss.
- (1) 3"x0.120" NAIL @ 8" O.C. 2x6 TOE-NAILED TO TOP PLATE**: One nail toe-nailed to the top plate of the 2x6 sheathing.
- 3/8" T-111 OR DURATEMP SHEATHING**: The main roof sheathing material.
- 7/8" ROOF SHEATHING**: An additional layer of sheathing at the edge.

5-END WALL DETAIL

6-TYP DOOR FRAMING

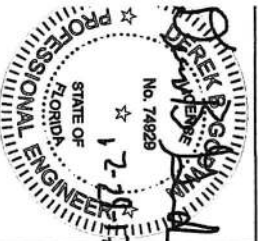
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Technical drawings illustrating window header details for different opening widths:

- Top Left Detail:** Shows a cross-section of a window header. Labels include:
  - TOP PLATE
  - $\frac{1}{2}$ " OSB
  - HEADER
  - CRIPPLE 2x4 STUD - NAIL TO STUD W/ 3"x0.120" NAILS AT 8" O.C.
- Top Right Detail:** Shows a cross-section of a window header. Labels include:
  - (2) 3"x0.120" NAILS TOE-NAILED HEADER TO DBL STUD
  - (2) 2x4 TOP PLATE W/  $\frac{1}{2}$ " SPACER (1) 2x4 HEADER
  - 2x4
  - HEADER FOR OPENINGS LESS THAN 48" WIDE
- Bottom Left Detail:** Shows a cross-section of a window header. Labels include:
  - (2) 2x6 W/  $\frac{1}{2}$ " SPACER
  - 2x4
  - HEADER FOR OPENINGS 72" OR WIDER
- Bottom Right Detail:** Shows a cross-section of a window header. Labels include:
  - (2) 2x4 w/  $\frac{1}{2}$ " SPACER
  - 2x4
  - HEADER FOR OPENINGS 48" & 72"

**NOTE:** FOR 12' HIGH OR GREATER SIDEWALLS, A 48" MAX OPENING IS ALLOWED.

NOTE:  
FOR 12' HIGH OR GREATER SIDEWALLS,  
A 48" MAX OPENING IS ALLOWED.



SHEET APPROVAL STAMP

# PORTABLE GARBAGE--FL--V=150MPH--FBC 2017



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S-7-PG

SCALE: 1"=1'

2x4 STUD

3"x0.120ø NAIL @ 8" O.C.

2x6 RIM JOIST

4x6 PT SYP SKID

(2) 3"x0.120ø NAILS @ 16" O.C.

(6) 3"x0.120ø NAILS EACH SIDE OF DOUBLE JOIST @ 12" O.C.

2x6 PT PULL BLOCK W/ (12) 3"x0.120ø NAILS INTO EACH SKID

SIMPSON A23 CLIP SCREWED OR RING SHANK NAILS (NOT SHOWN FOR CLARITY)

2x4 PT PULL BLOCK W/ (2) 3"x0.120ø @ 6" NAILS INTO 2x6 PT PULL BLOCK (LOCATED BETWEEN MIDDLE SKIDS ONLY)

Technical drawing of a roof assembly cross-section. The drawing shows the following components and fasteners:

- 2x4 STUD**: Vertical support member.
- (4) 3"x0.120ø NAILS @ 16" O.C.**: Fasteners securing the top plate to the stud.
- 2x6 PT PULL BLOCK W/ (12) 3"x0.120ø NAILS INTO EACH SKID**: Pull block fasteners.
- 2x6 RIM JOIST**: Horizontal support member.
- 4x6 PT SYP SKID**: Main structural member.
- 2x4 PT PULL BLOCK W/ (2) 3"x0.120ø @ 6" NAILS INTO 2x6 PT PULL BLOCK (LOCATED BETWEEN MIDDLE SKIDS ONLY)**: Pull block fasteners for intermediate skids.
- SIMPSON A23 CLIP SCREWED (NOT SHOWN FOR CLARITY)**: Fastener for the pull block.
- 3"x0.120ø NAIL @ 8" O.C.**: Fasteners for the top plate.

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PT 2x4x48" LAP SPLICE FASTENED WITH (2) - 3" RING-SHANK NAILS 3" O.C.

4X6 SKID WITH 1 1/2" WIDE x 1" DEEP NOTCHES AT 12" O.C. ENTIRE LENGTH OF SKID TO ACCOMMODATE FLOOR JOISTS (TYP)

12" O.C.

GRACELAND PATENTED  
CONTINUOUS VENTED SOFFIT

[illegible]

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**SHEET NUMBER**  
**S-8-PG**  
**SCALE: 1"=1'**