Printed Interior Walls Using PowerPoint and other Uses

Phil Edholm

July 2021

PowerPoint – A Drawing Package in Disguise

- Change paper size to match your printer
- Turn on scales and lines
- Use “Format Shape” to set object sizes
- Import and fill, fill, fill

Seven Use Use Cases

- Printed Interiors
  - **Customized interiors with additional details**
  - Simple flat interior
- Prototyping
- Design
- Backdrop Buildings
- Signs
- Stained Glass Windows

CALIFORNIA CENTRAL COAST
MODULAR ON30

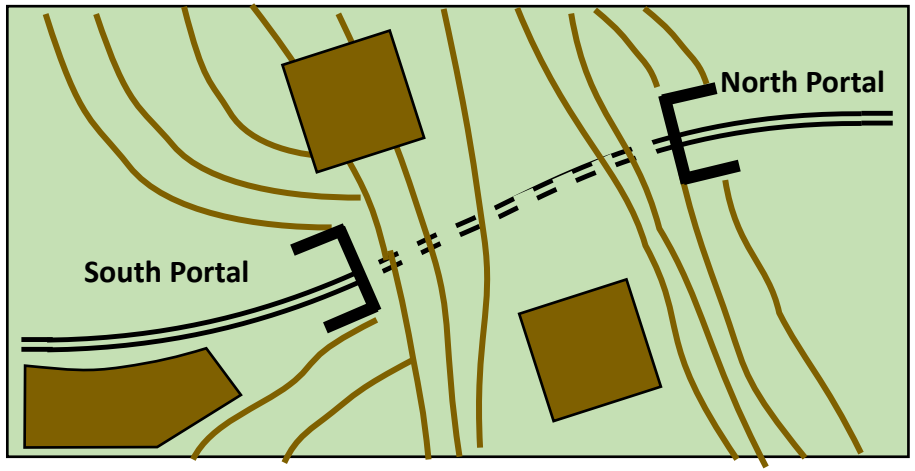
CALIFORNIA CENTRAL COAST
MODULAR ON30

CALIFORNIA CENTRAL COAST
MODULAR ON30
It is our pleasure to set up and demonstrate our railroad for you.
DONATIONS are appreciated.
Thank you, CCCModOn30
YOSEMITE

SIERRA CITY
ELEVATION 5,407 FT
To DOWNIEVILLE
To BASSETTS 5 7/8 MI.

Firestone
A TRACTORS

SIERRA CITY



Mission Hill Tunnel under the Mission in Santa Cruz

The 927-foot tunnel was bored in 1876 to remove trains from downtown Santa Cruz. The tunnel is still in use by the Santa Cruz Big Trees & Pacific Railway.

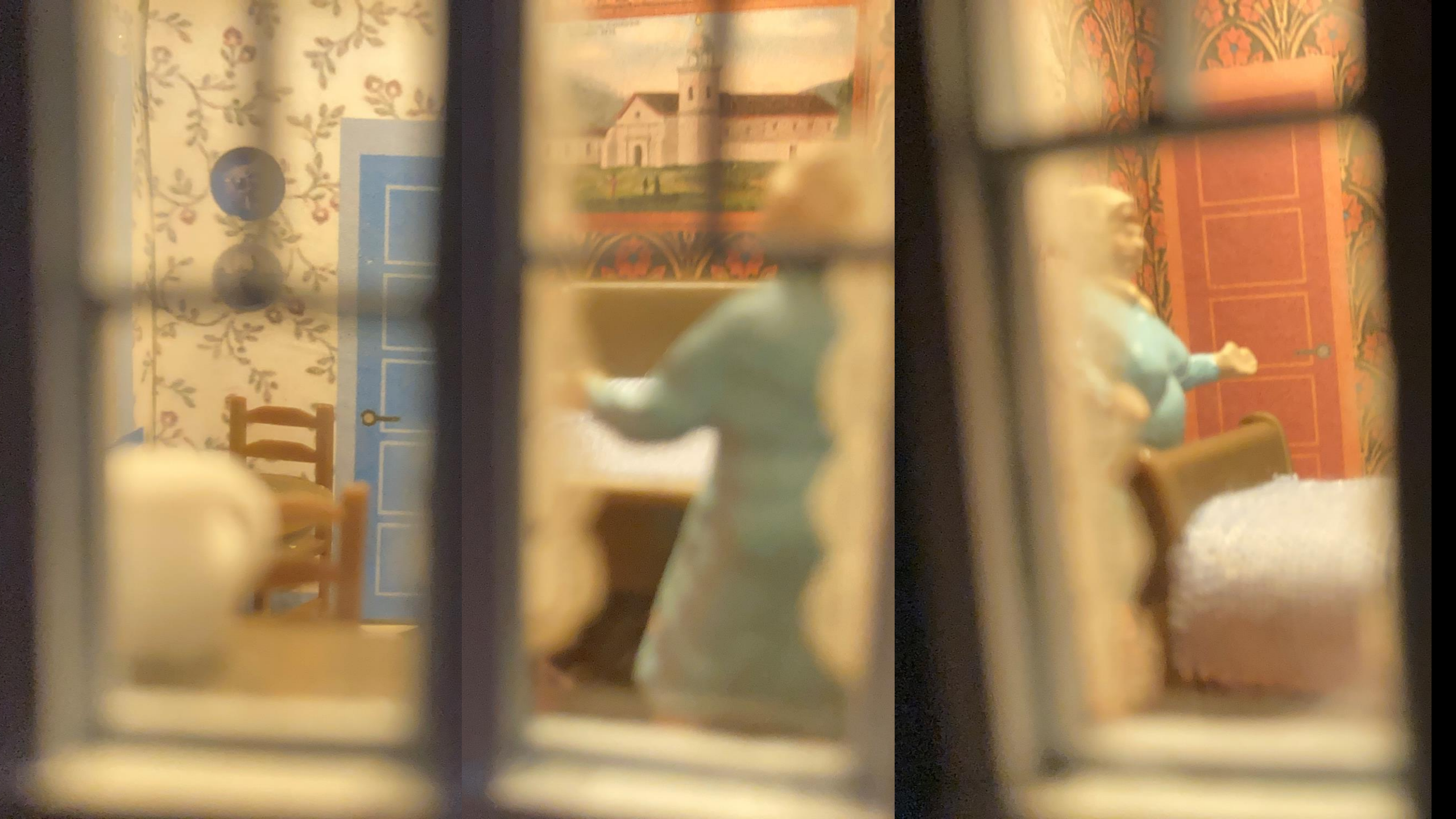
RAILS BY THE BAY
NMRA 2021, SANTA CLARA, CALIFORNIA

North Portal

South Portal

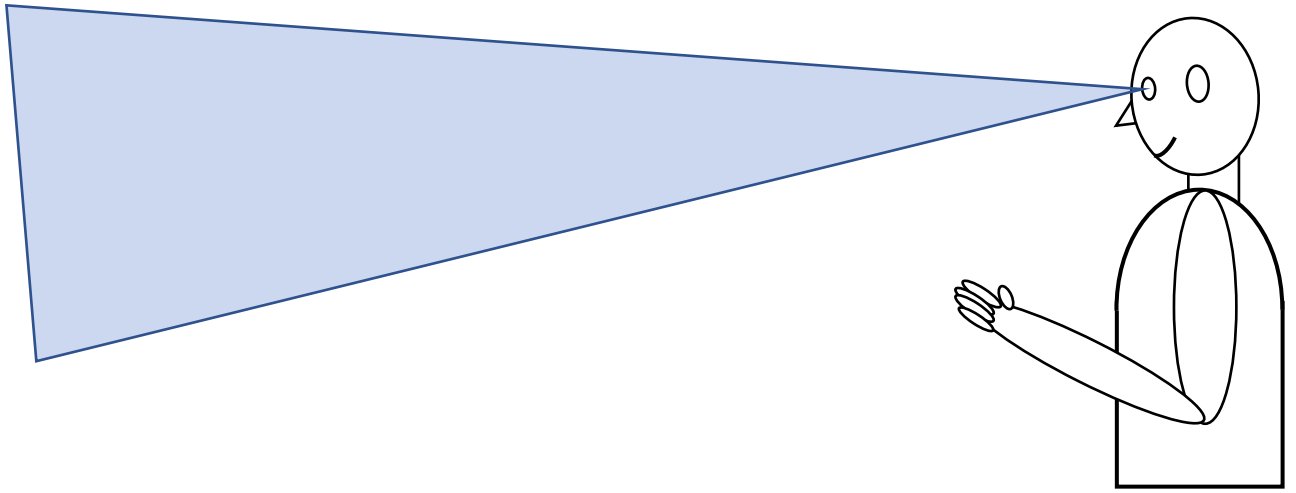
Interiors for 6-inch viewing

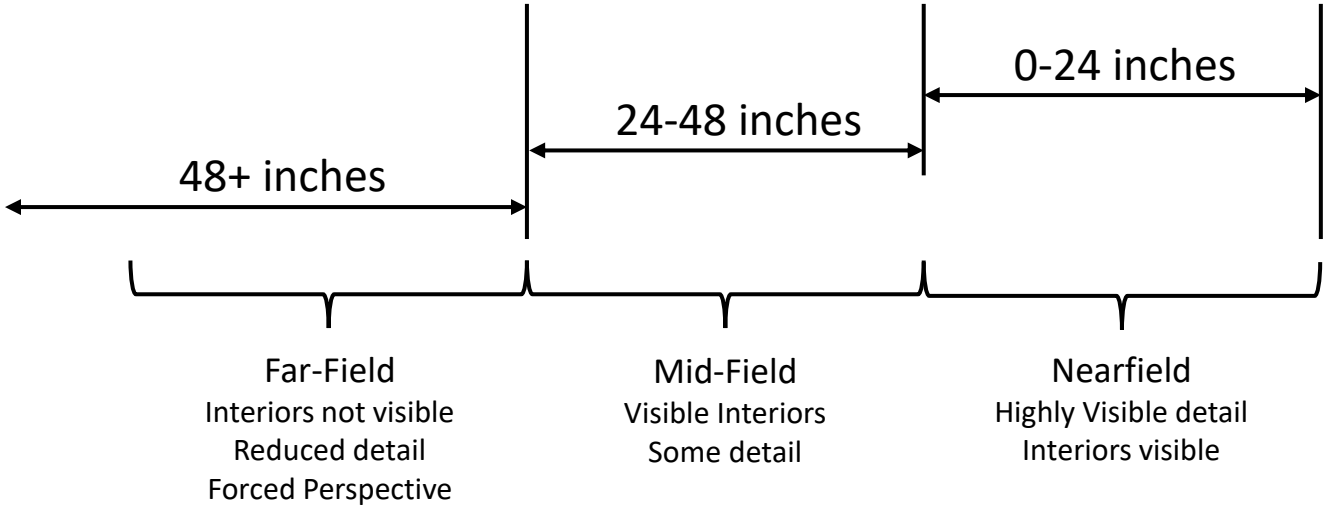
- On30 module for public viewing
- DPM Resin “Aunt Eleanor’s House” Kit
- Positioned at eye level on the module
- Needed an interior
- Details were very visible



Modeling Detail – 3 Zones

- Near Field
  - 0-24 inches
  - Highly Visible
  - Contest zone
- Mid-Field
  - Interiors visible
  - Some detail
- Far-field
  - Interiors not visible
  - Reduced detail
  - Forced Perspective

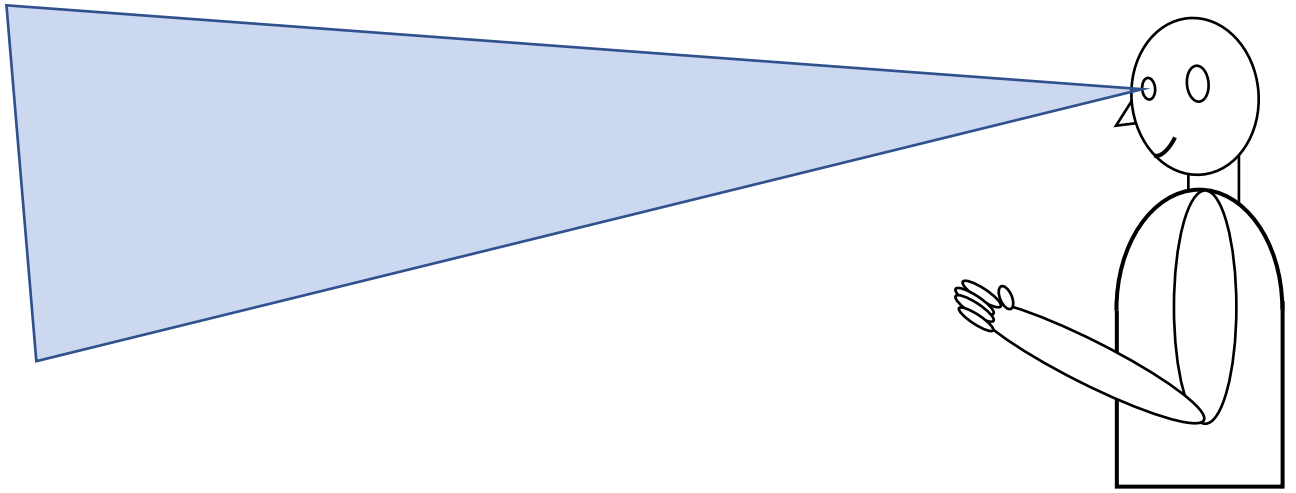


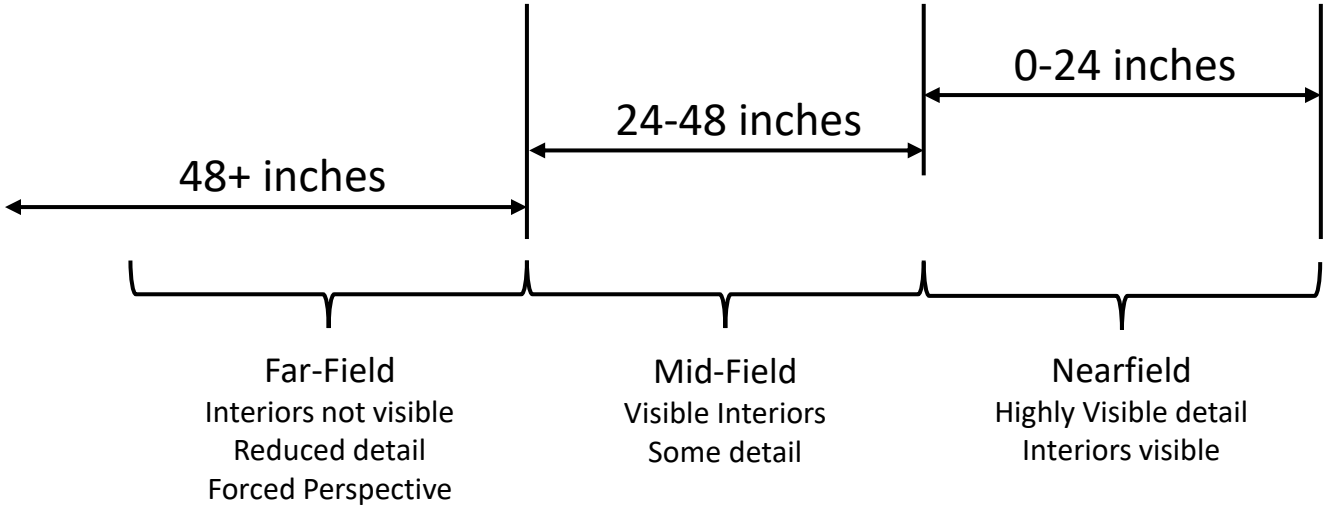


Modeling Detail – Printing

- Near Field
  - Small buildings only
  - Constrained views
  - Build to suit
- Mid-Field
  - Simple Prints
- Far-field
  - Not applicable

Not for Contest Models





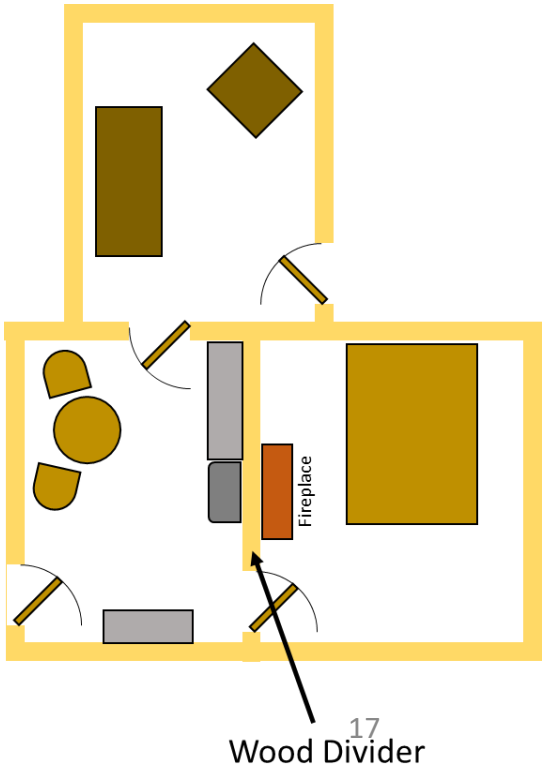
Simple Interior – over 2-foot viewing Distance

UNIFORMS

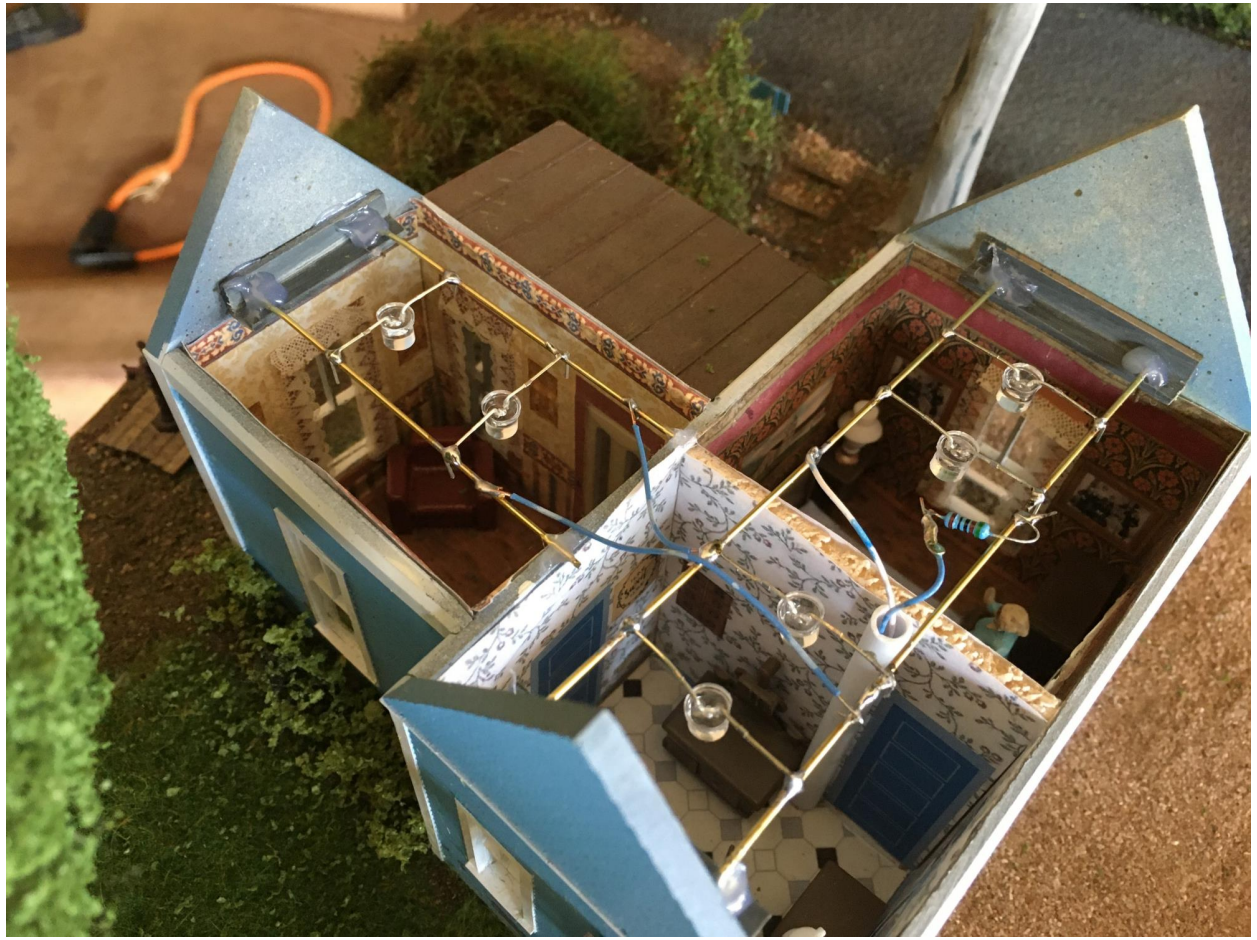
RIFLES ♦ SWORDS ♦ AMMO
WE BUY SELL & TRADE
ARMY & NAVY SURPLUS
FISHING
WORK CLOTHES
HUNTING
UNIFORMS

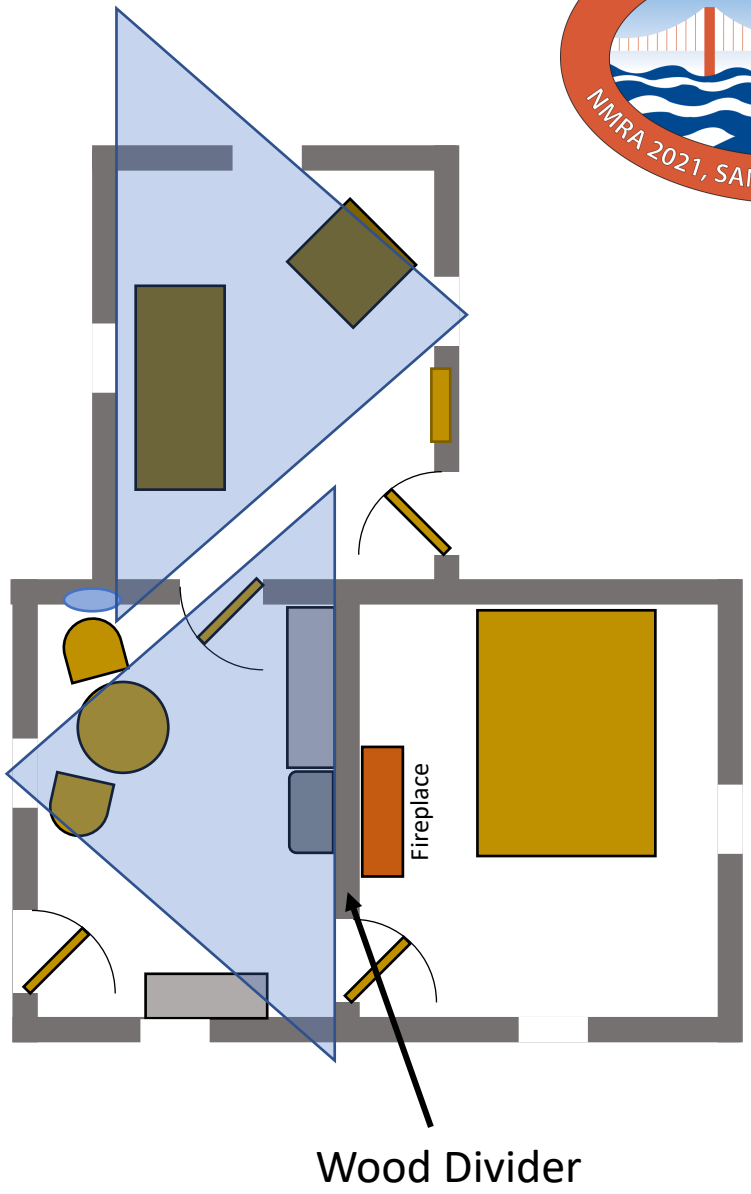
HUNTING
Army & Navy
SURPLUS

Nearfield - Print Walls WITH Detail



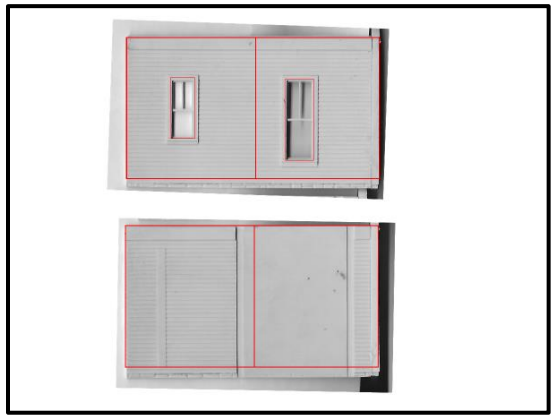
Flat Viewing Angles
Minimizes issues with depth



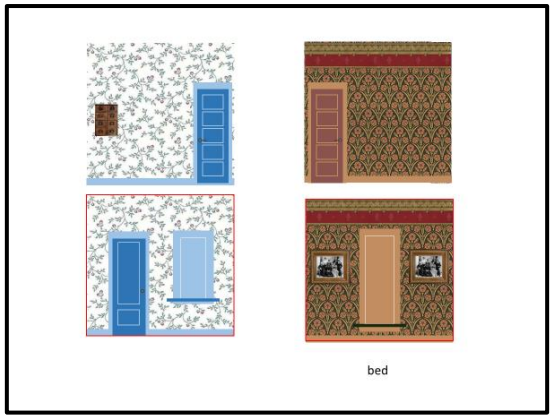


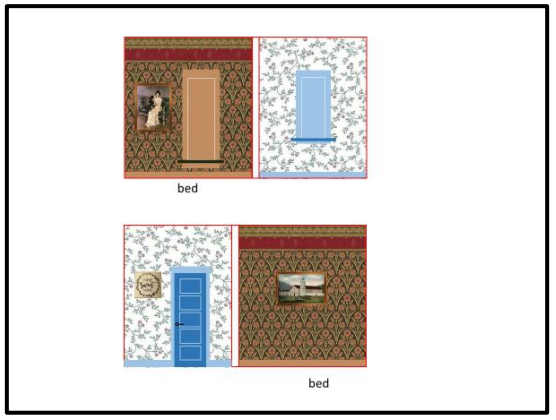
Process for Kitchen/Bedroom

Scans Imported into a slide and templates laid out

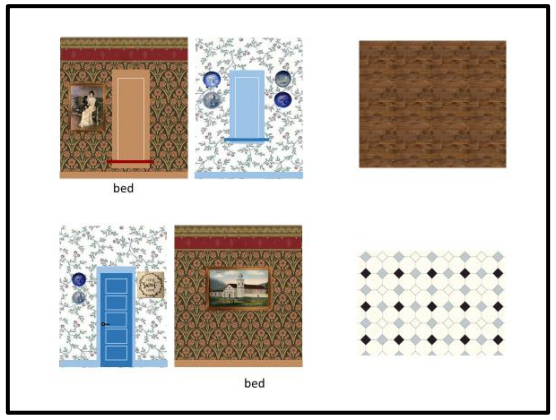


Images from Internet laid onto wall templates

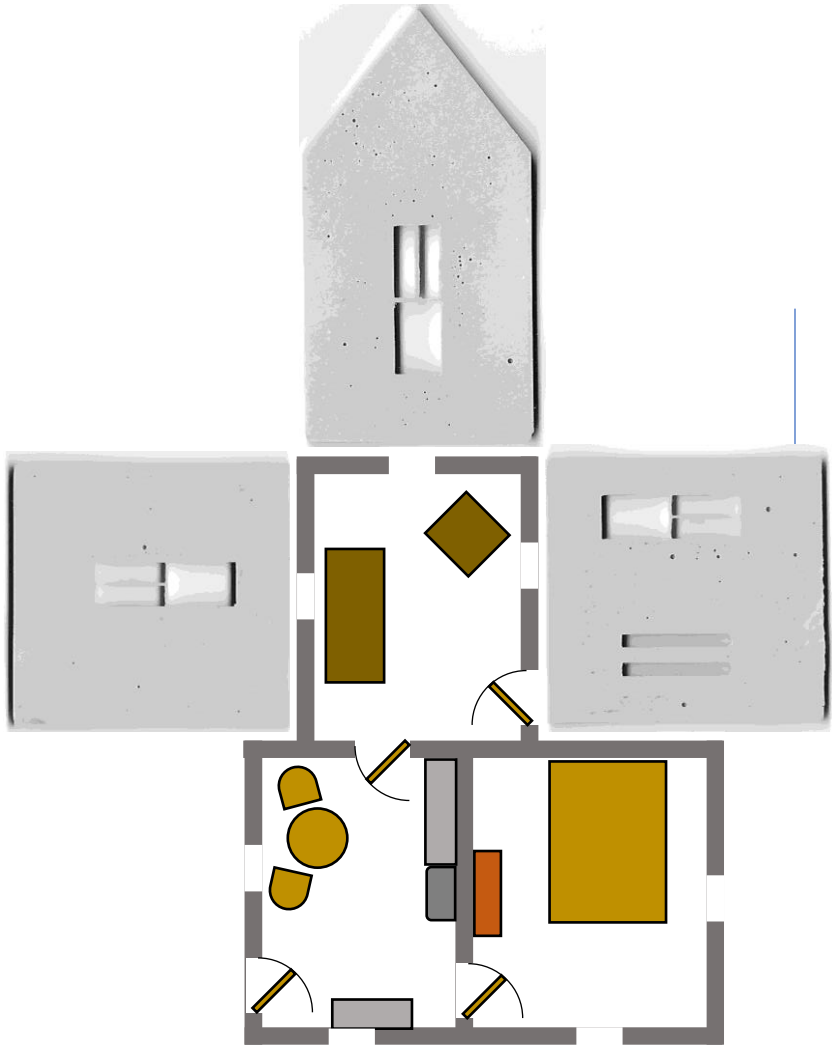


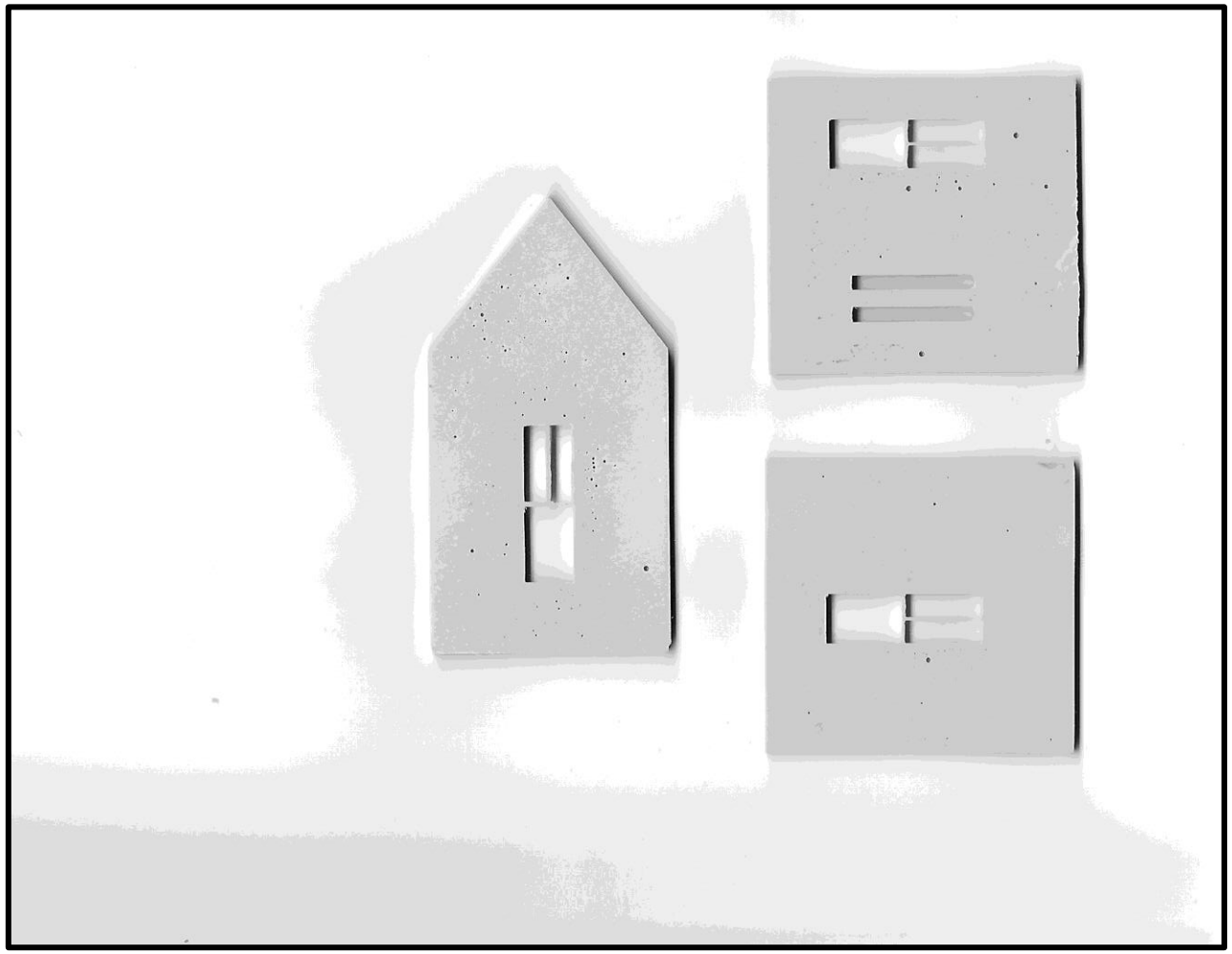


Final Prints



Scan the model as a JPEG or PNG



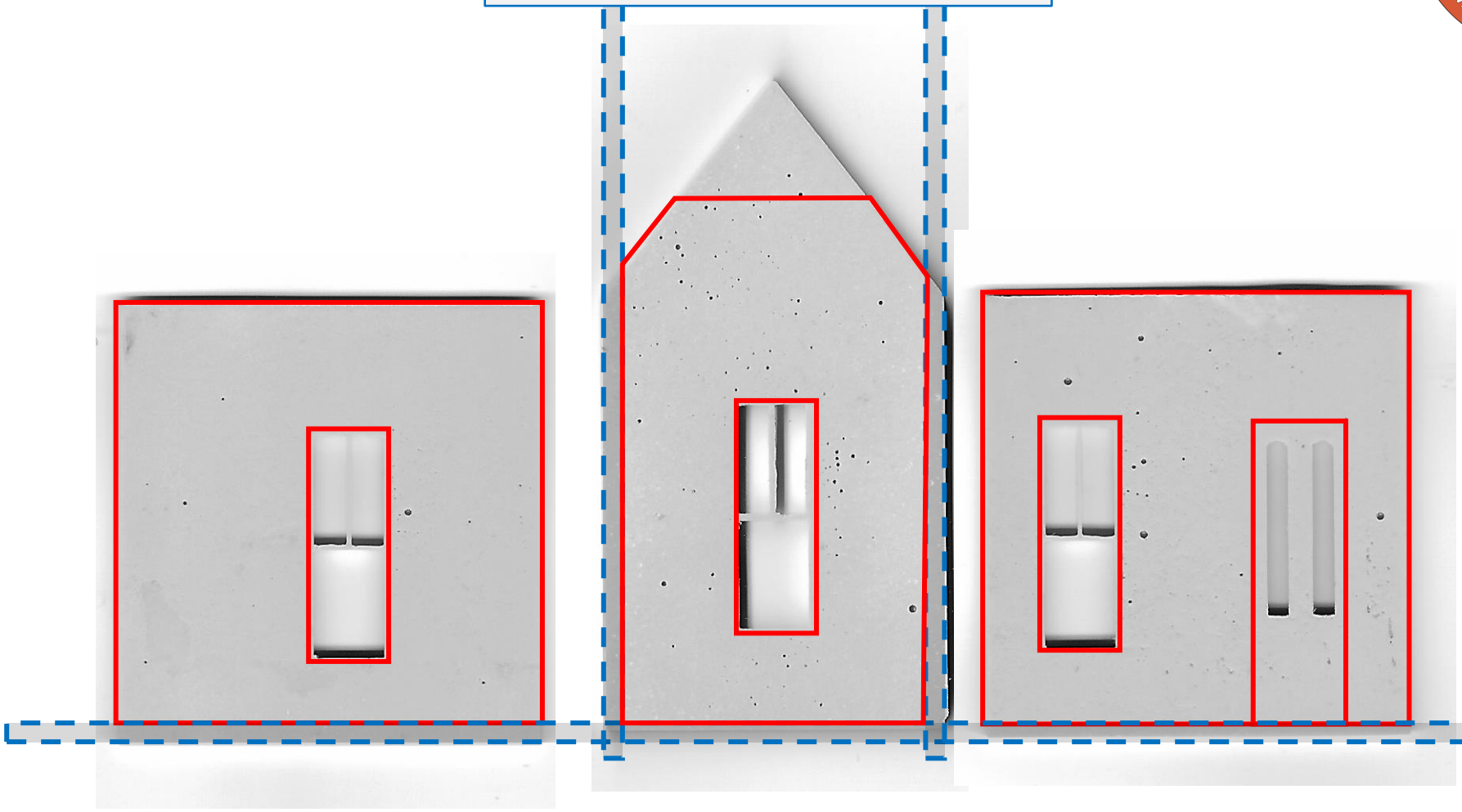


Arrange as a template

- Import into PowerPoint – duplicate and crop as many times as there are walls on the image
- Use the Clip tool to get one wall on each image
- Orient to be Square
- Make outlines for the walls and the windows
- I planned to paint the interior mullions

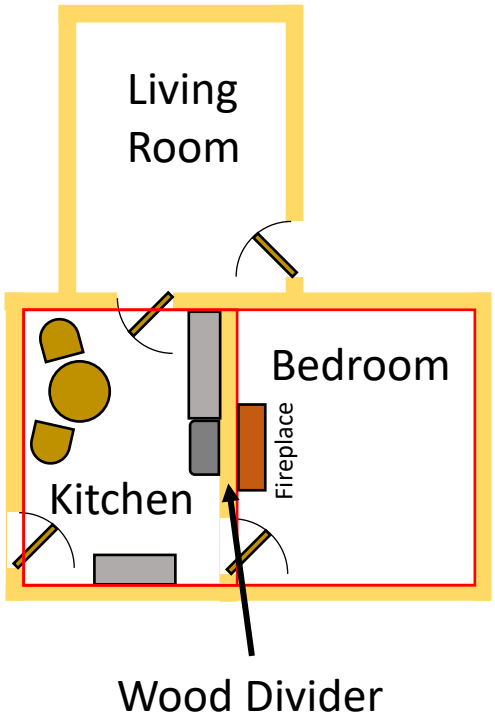
The green rectangle is what is on the actual slide

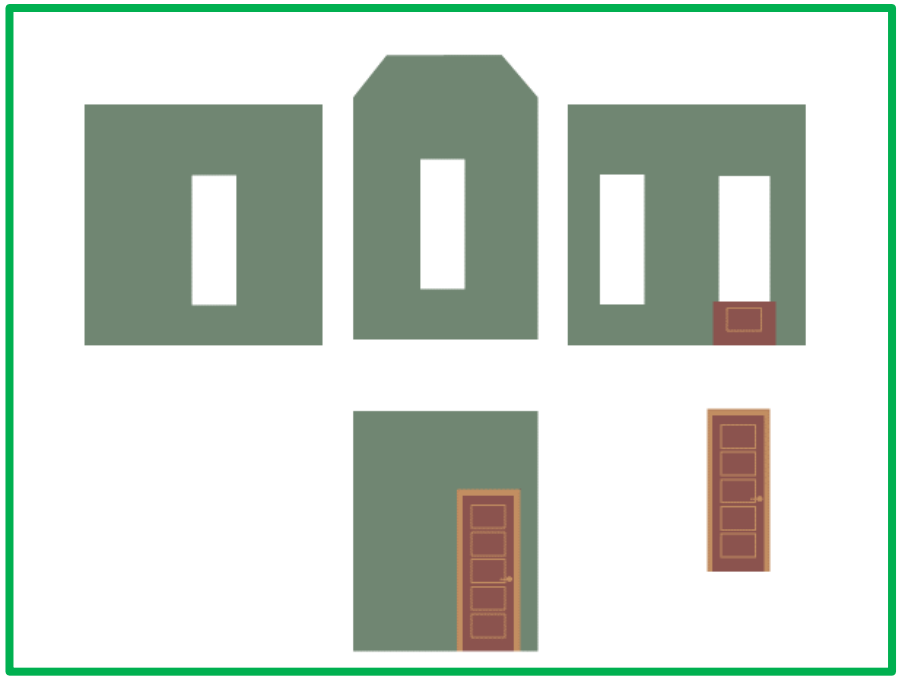
Wall Thickness for Gluing Sides to ends – I missed this the first time – I had to cut extra



Reserved space for Kit Floor to Glue in

Three Rooms – 12 Walls

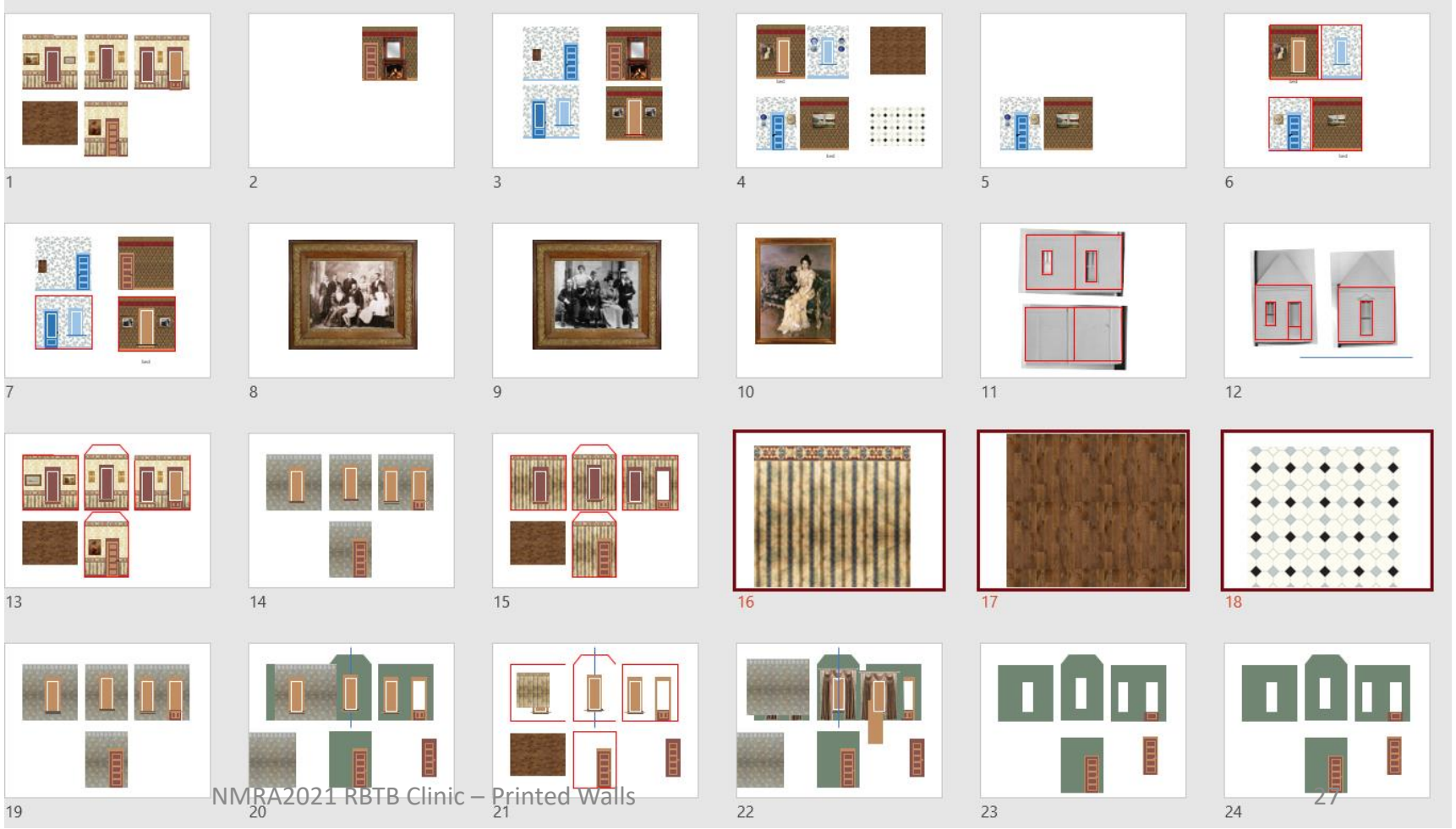




Living Room design
Started with green, decided

Finding Patterns

- Use Google
  - Search for what you want
    - Victorian Wallpaper
    - White Wainscoting
    - Santa Cruz Photo 1900
  - Go to images
- Textures.com
  - https://www.textures.com/
  - Limited free - OK



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google.com/search?q=brick+wall+background&rlz=1C1CHBF_enUS692US692&sxsrf=ALeKk01KfCchHqMMyXtlvyKZBZSHvya7Xg:1592065757982&source=lnms&tbm=isch&sa=X&ved=2ahUKEwjOpNqPm__pAhU5FzQIHbIlB14Q_...

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Google

brick wall background

All | Images

high resolution | graffiti

Sponsored

Delvale Brick Removable Peel...
$55.99
Wayfair
Free shipping

Arusha up The Wall 33' x 20.5"...
$77.99
Wayfair
Free shipping

Red Brick Wall Photography Backdrop ...
katebackdrop.com · In stock

Victorian Wallpaper Vintage Flor...
amazon.com

Ornate Baroque Da...
etsy.com · In stock

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google.com/search?q=victorian+wallpaper&rlz=1C1CHBF_enUS692US692&sxsrf=ALeKk01In14hSgqiSgUv20zjEoiP8JXgwA:1592065928577&source=lnms&tbm=isch&sa=X&ved=2ahUKEwihvYbhm__pAhXToFsKHZvkBDMQ_AUoA...

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Google

victorian wallpaper

All | Shopping

floral | green

Sponsored

Adalwine 32.7' x 20.5" Canvas...
$44.99
Wayfair
Free shipping

Adalwin 32.7' x 20.5"...
$31.99
Wayfair
★★★★½ (22)

brick wall background - Google S | Search - rusted roofing | victorian wallpaper - Google Sea

textures.com/search?q=rusted%20roofing

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textures.com
formerly CGTextures.com

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Categories

rusted roofing | All

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- Animals
- Brick
- Buildings
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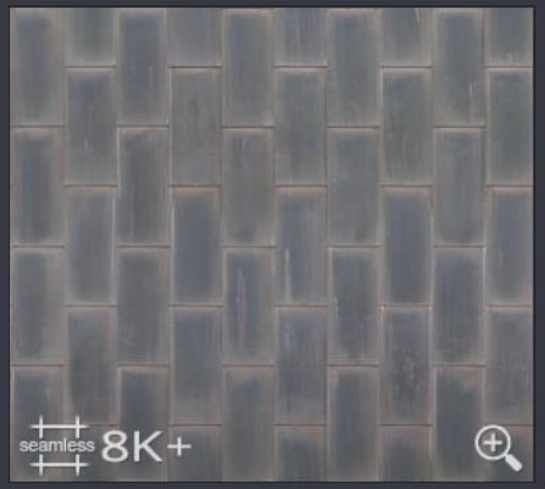
- Doors
- Fabric
- Floors

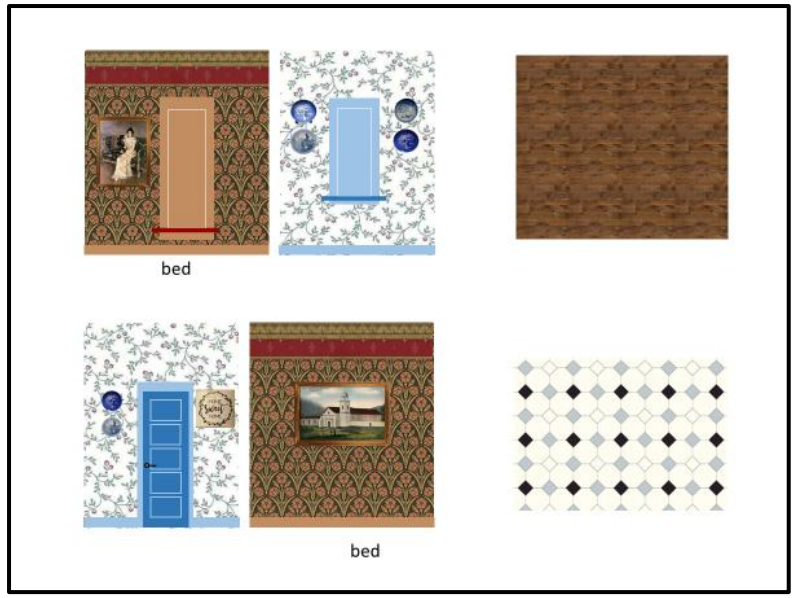
Textures › Search

Found **19 Textures** with keywords '**rusted roofing**'



Final Printouts for Walls

Bedroom And Kitchen



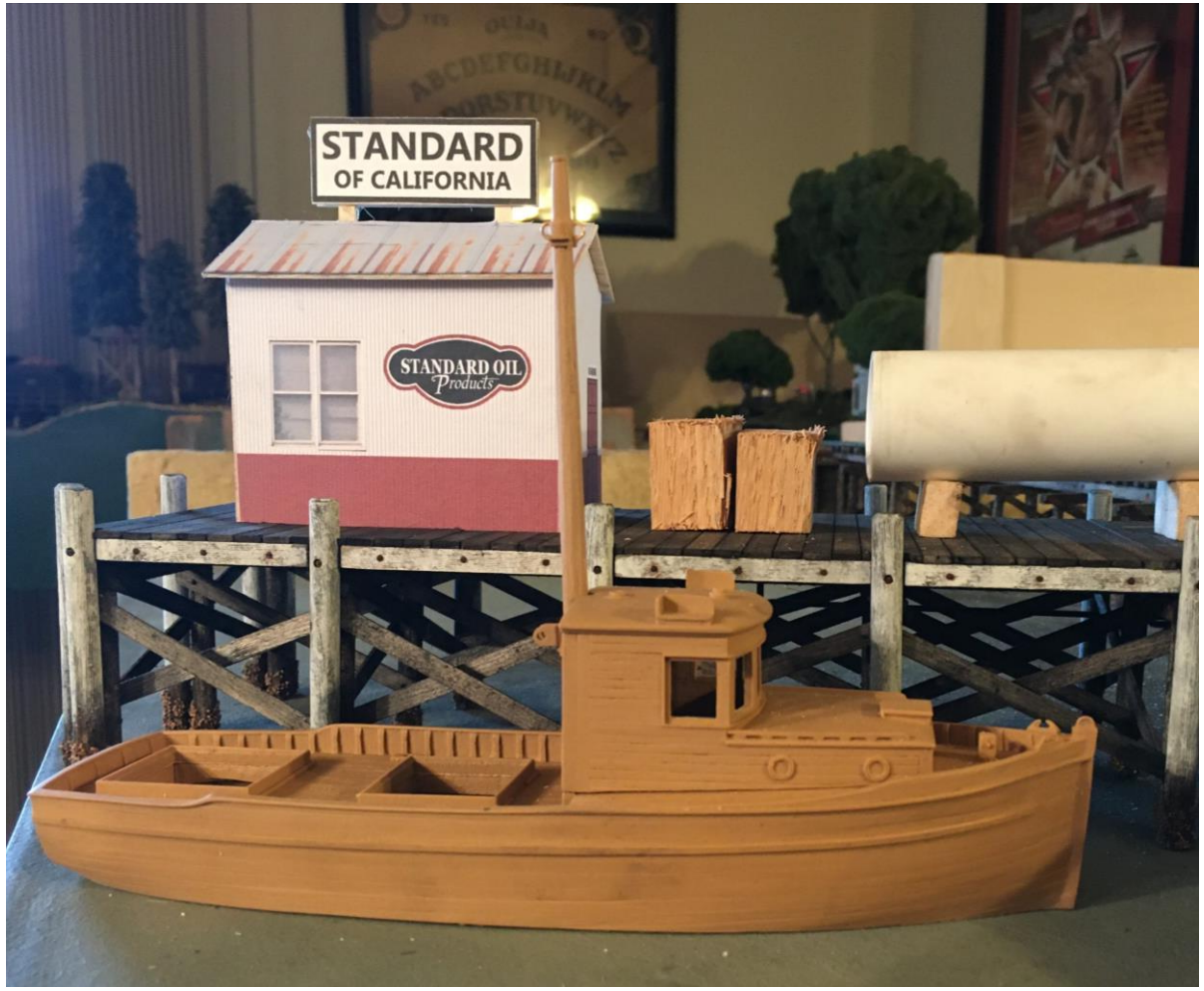
Bedroom And Kitchen

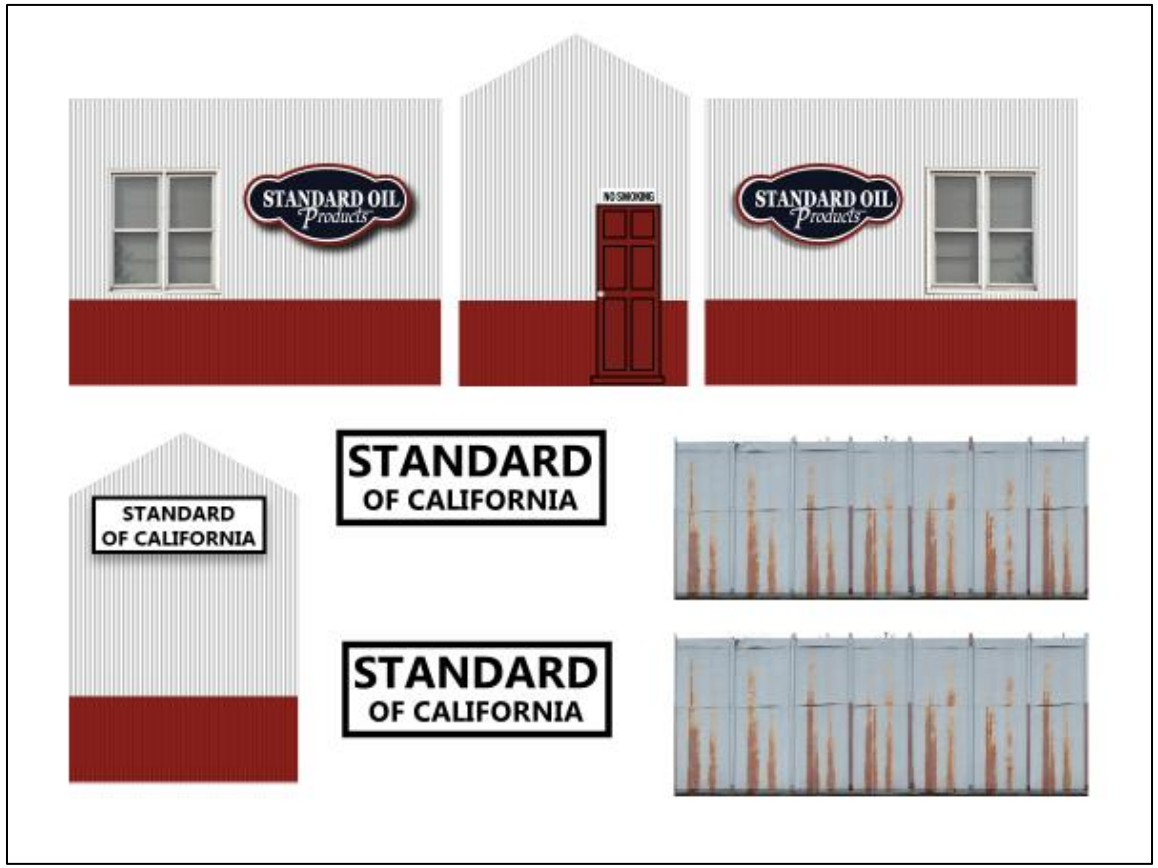
Living Room

- Cut out walls and doors windows
- Glue in after building is assembled and painted

Live demo?
memecrunch.com

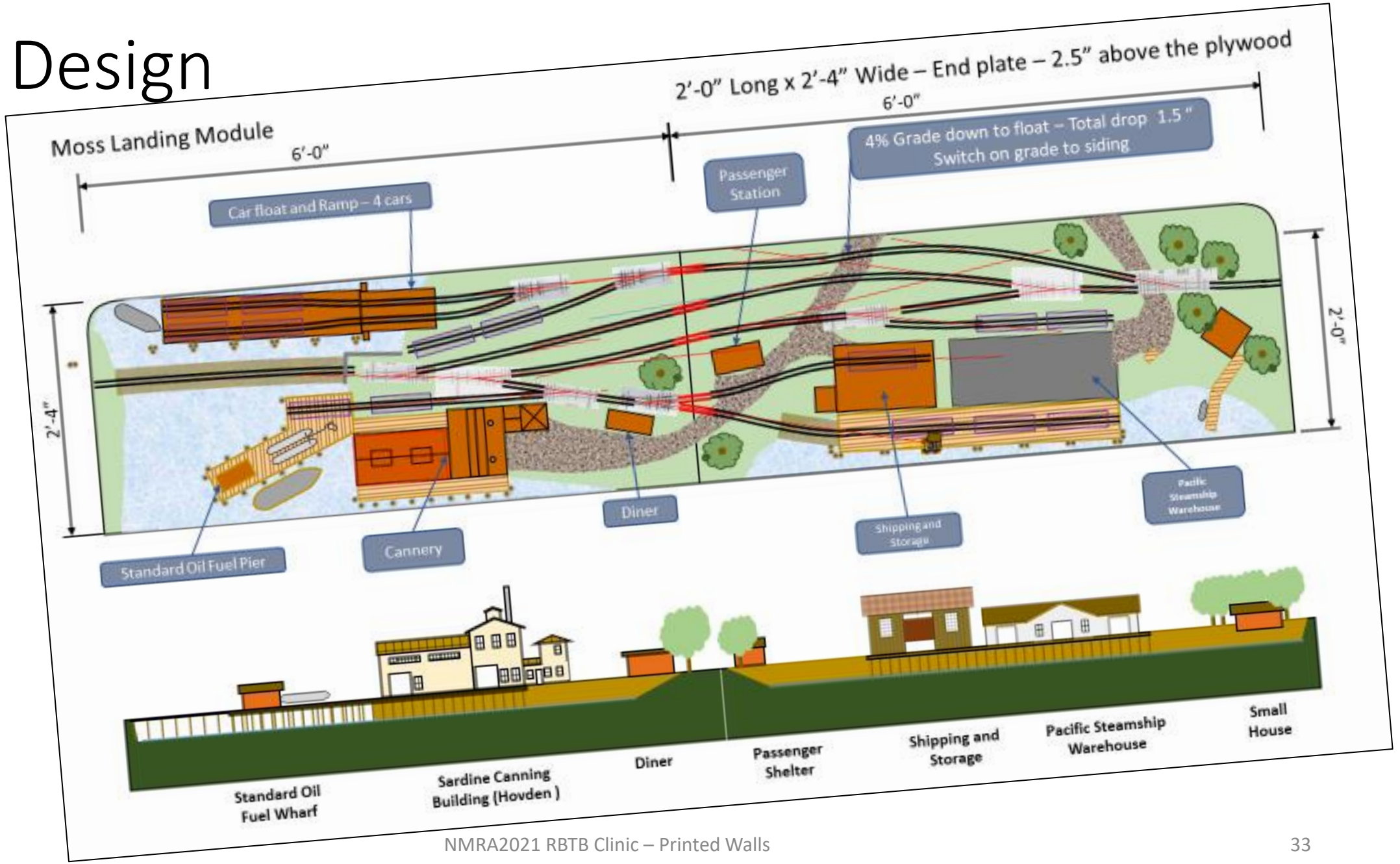
Prototyping/Stand Ins



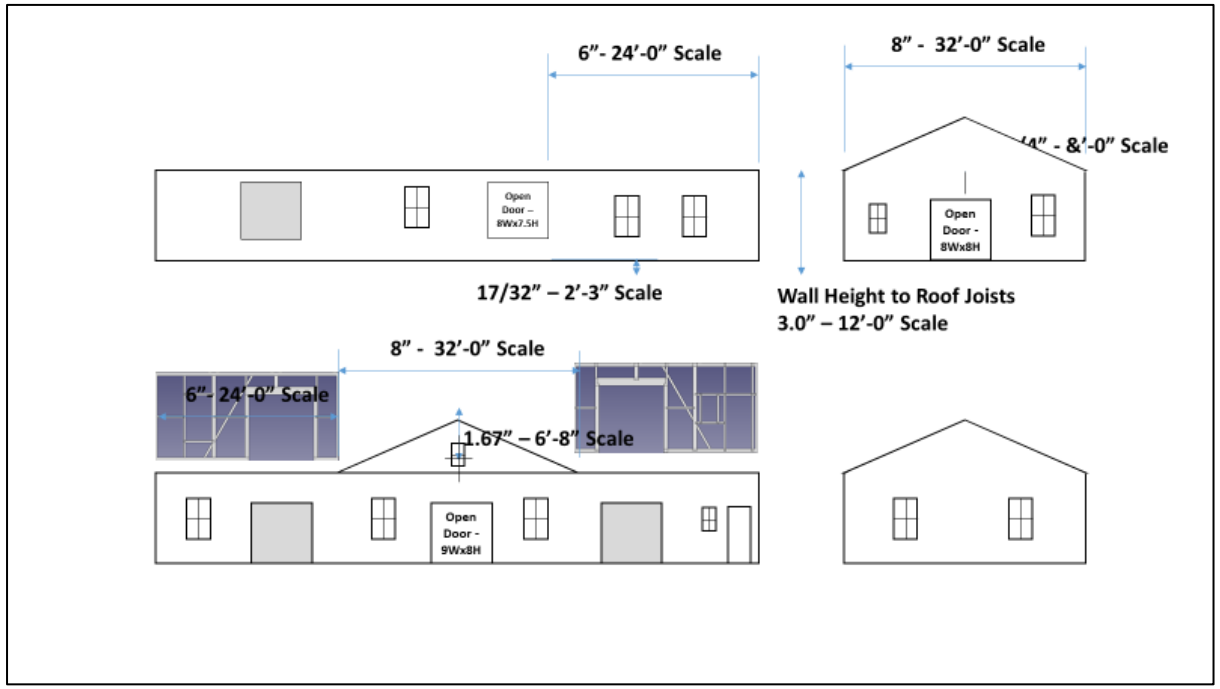


- 8.5x11.5 print
- Photo adhesive to balsa wood backing

Layout Design



Design of Building/Parts

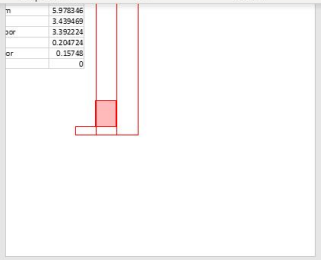


Scaling

Total Building Dsign

Commercial Hotel/Alpine Inn – Boulder Creek, CA
Design Without Balconies

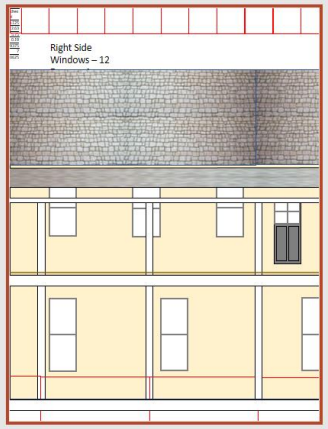
Windows – 34
Doors – 8



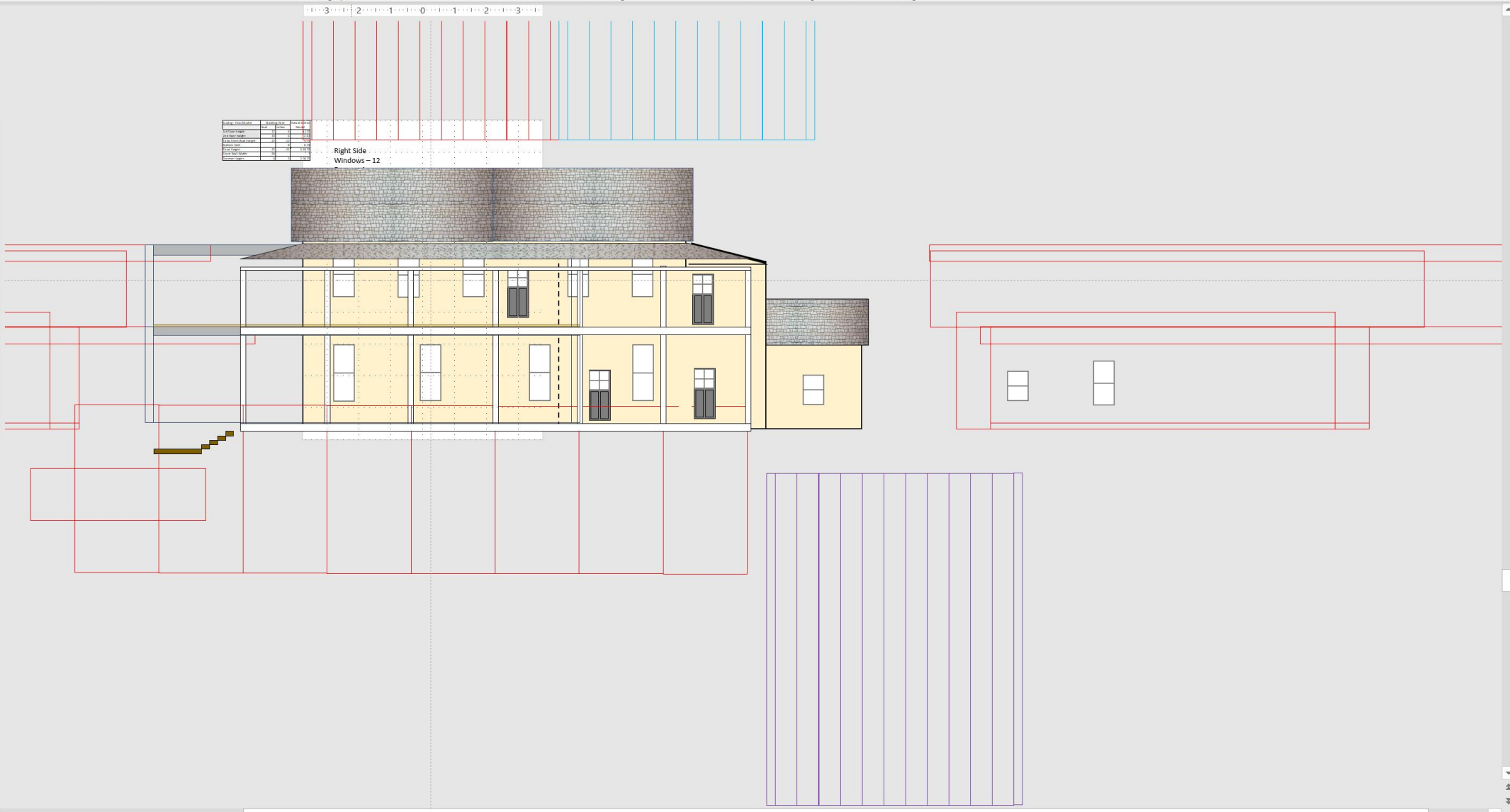
18

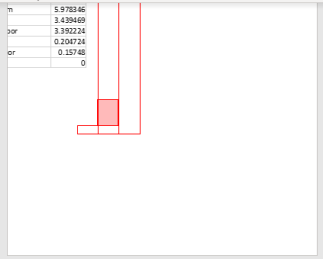
Right Side
Large Windows – 5 +4
Medium -1+4
Small -1
Doors – 4

19


Right Side
Windows – 12

20


Right Side
Windows – 12



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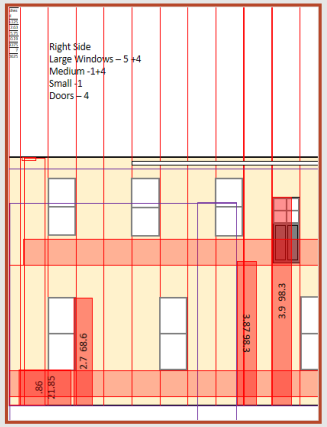
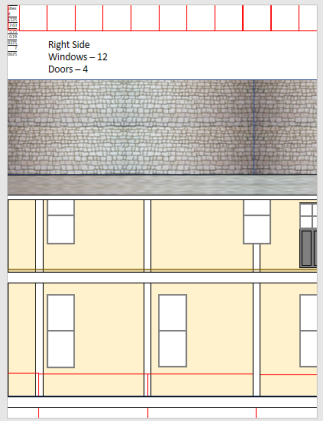
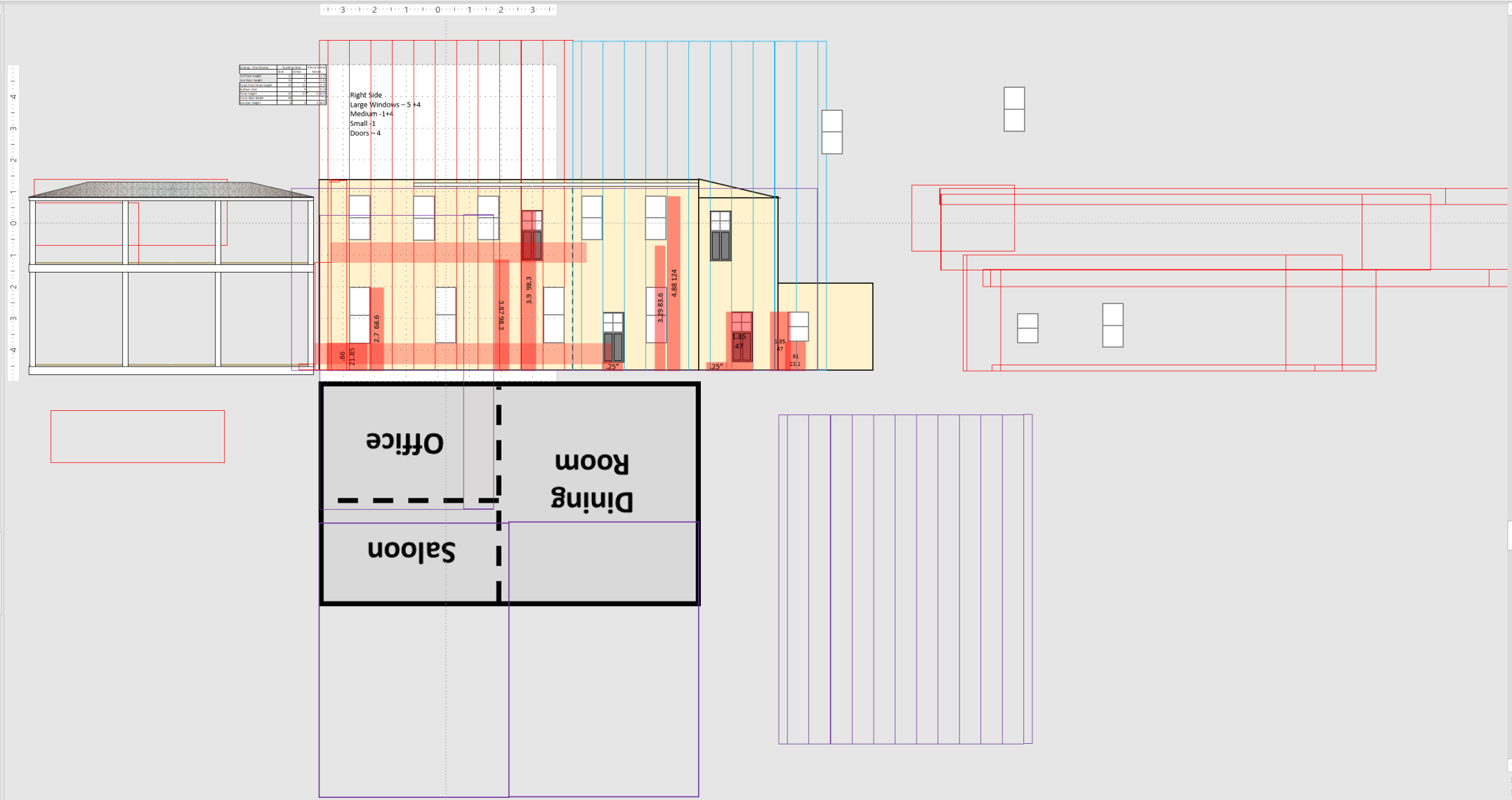
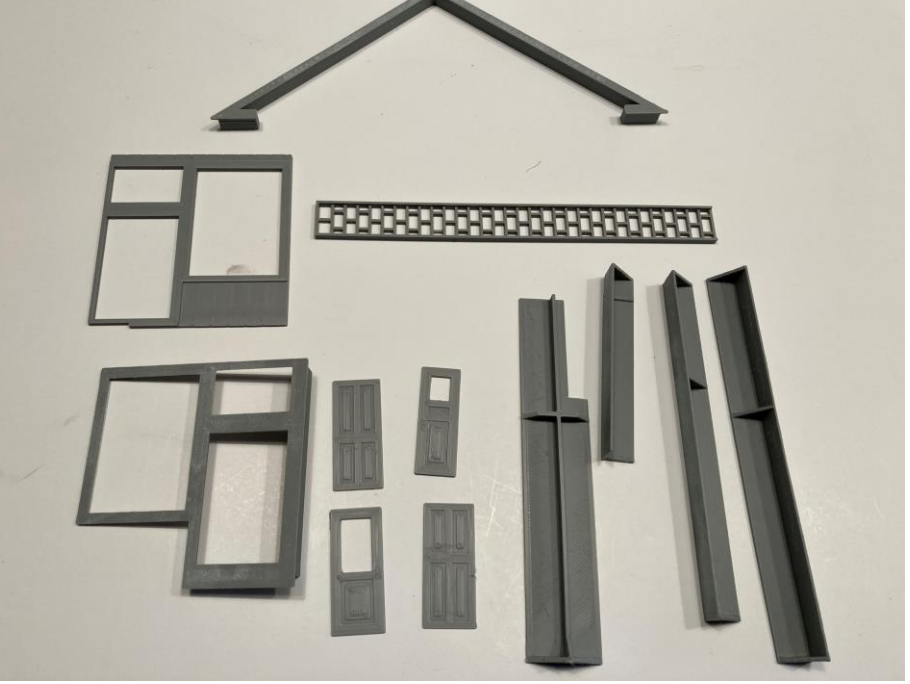

Right Side
Large Windows – 5 +4
Medium -1+4
Small -1
Doors – 4

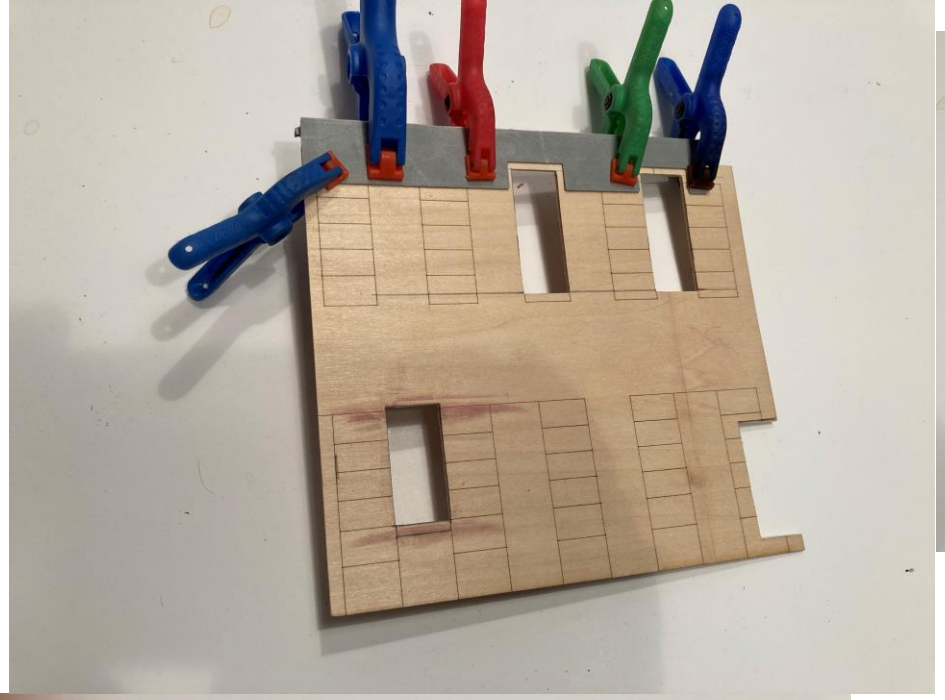
19

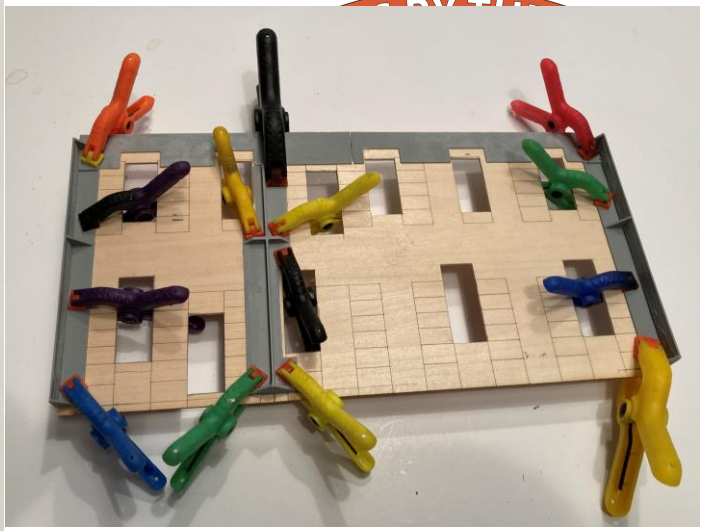

Right Side
Windows – 12
Doors – 4

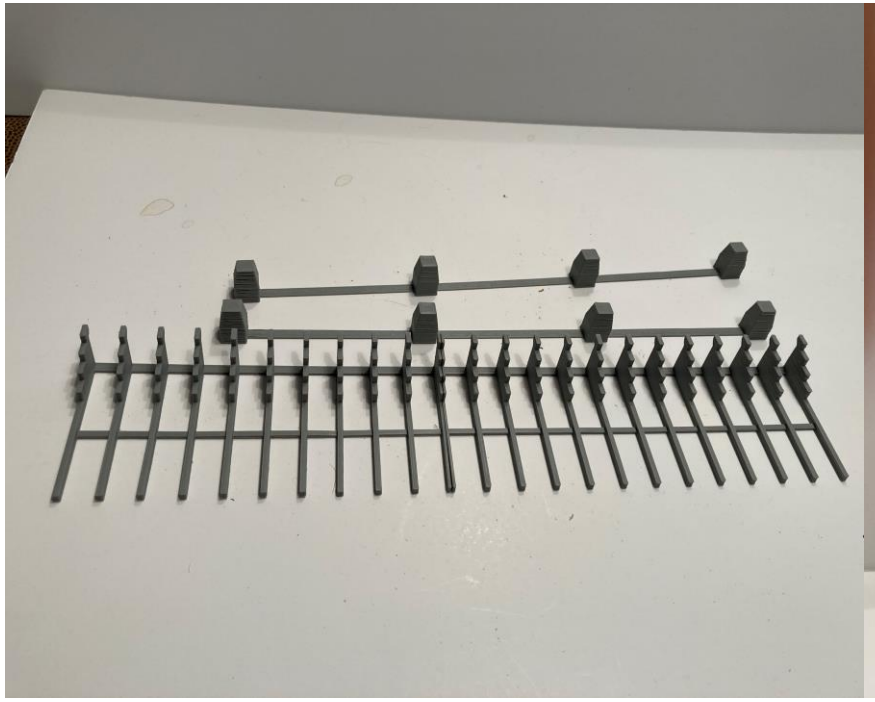
20


Right Side
Large Windows – 5 +4
Medium -1+4
Small -1
Doors – 4
Office
Dining Room
Saloon









Printing far backdrop buildings
Same Techniques with Costco Printing

20”x60” - $20

Stained Glass Windows

The windows were designed in PowerPoint and printed using a commercial laser printer for clarity.

PowerPoint – A Drawing Package in Disguise

- Great way to make printable objects for your modeling
- Allows you to create objects to print that suit your modeling
- Is a good planning and development tool

RAILS BY THE BAY

NMRA 2021, SANTA CLARA, CALIFORNIA

Stay Safe