Bridging the Gap on the M3R Mobile Railroad

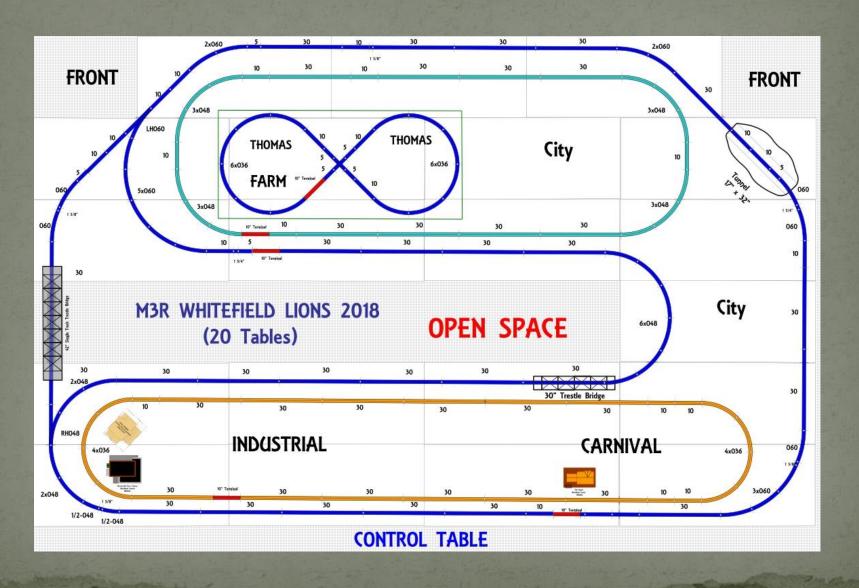
Truss Bridges, Girder Bridges, and Trestles:

Design Evolution, Drawings, and Helpful Hints

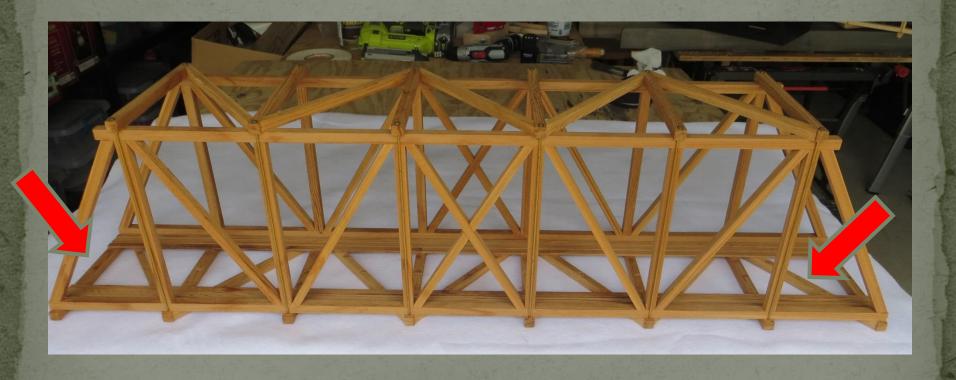
Presented by Art Shean

NEED DRIVES INNOVATION!

NEED: Expand Club Layout w/o More Tables



42" Single Track G-scale Truss Bridge

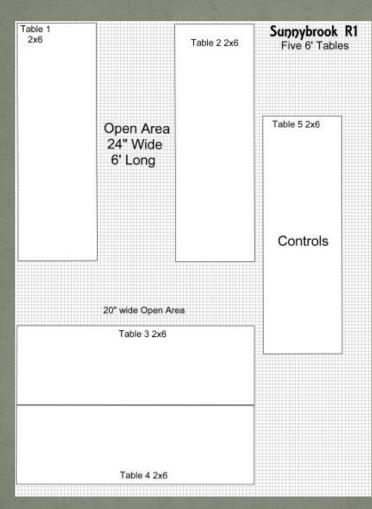


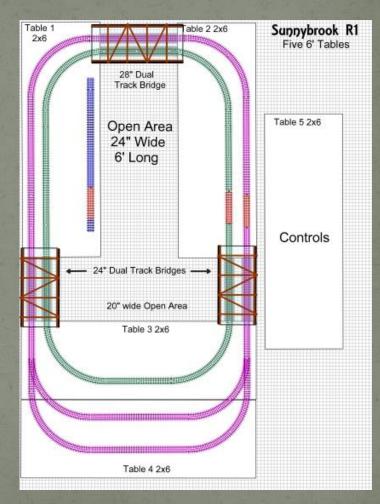
Base cross members cause ½" raised bed

2018 Whitefield Lions



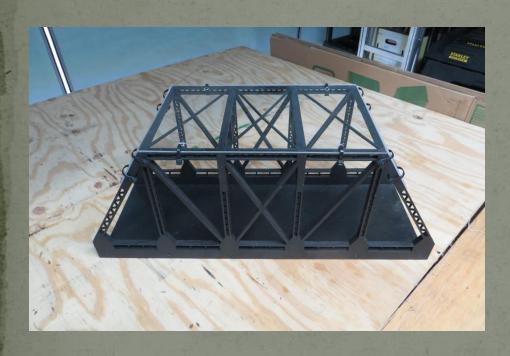
NEED: Bridges for Mobile Layout





Sam's First Bridges

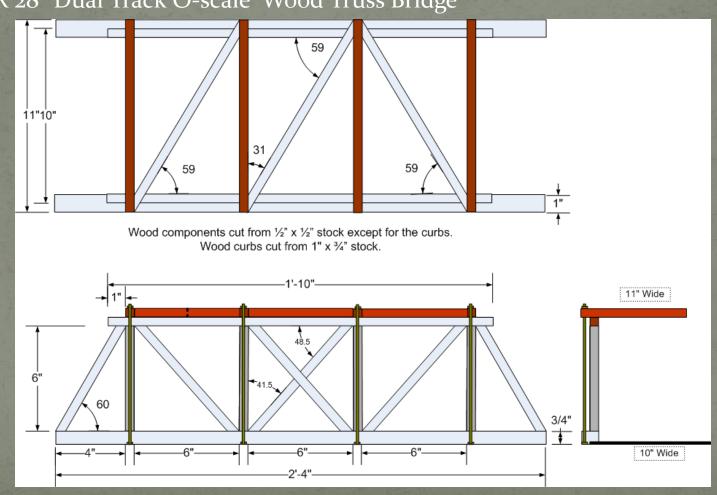
Menard's 24" Dual Track O-scale Truss Bridge





NEED: Sturdy 28" Dual Track, Flat Bottom Bridge

M₃R ₂8" Dual Track O-scale Wood Truss Bridge



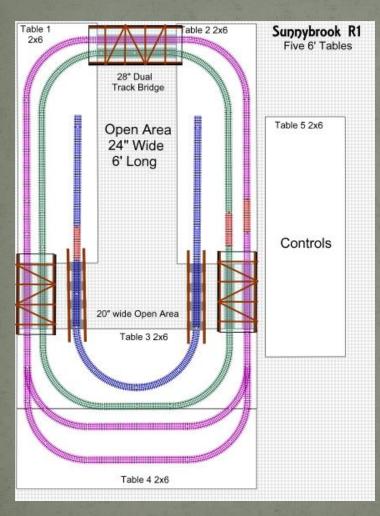
28" Dual Track O-scale Truss Bridge



2019 Togus VA Hospital

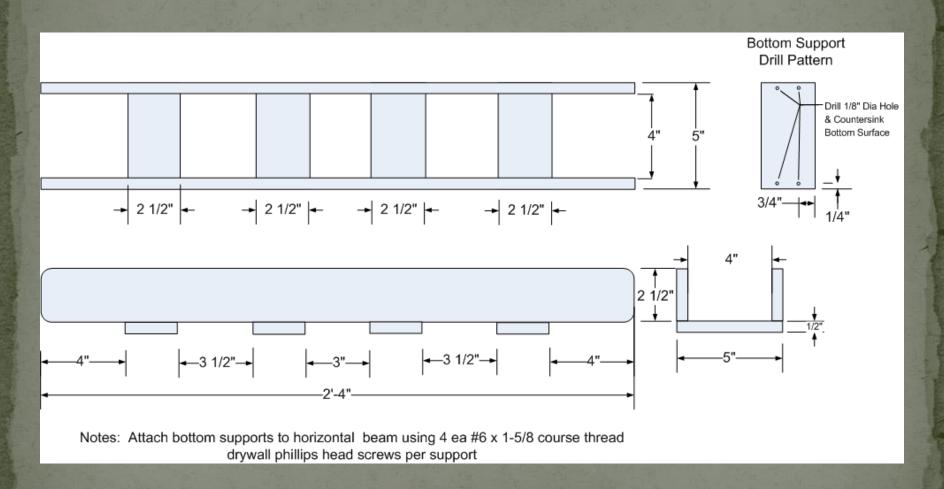


NEED: Extend Trolley Across Gap





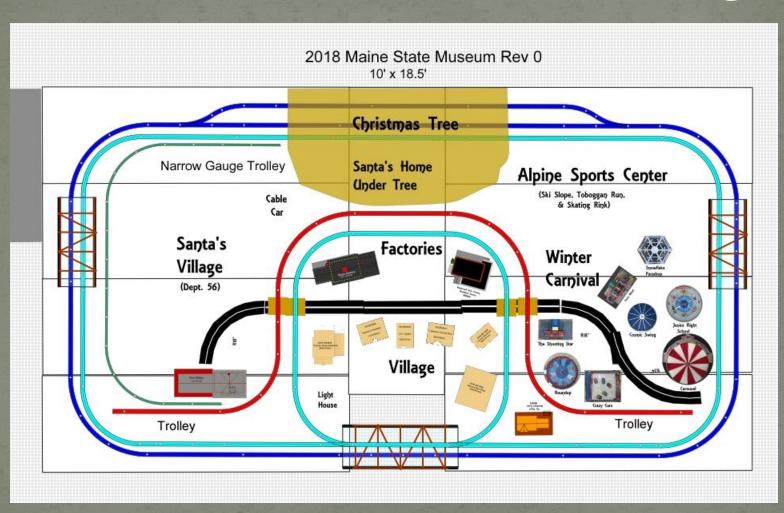
28" Single Track O-scale Girder Bridge



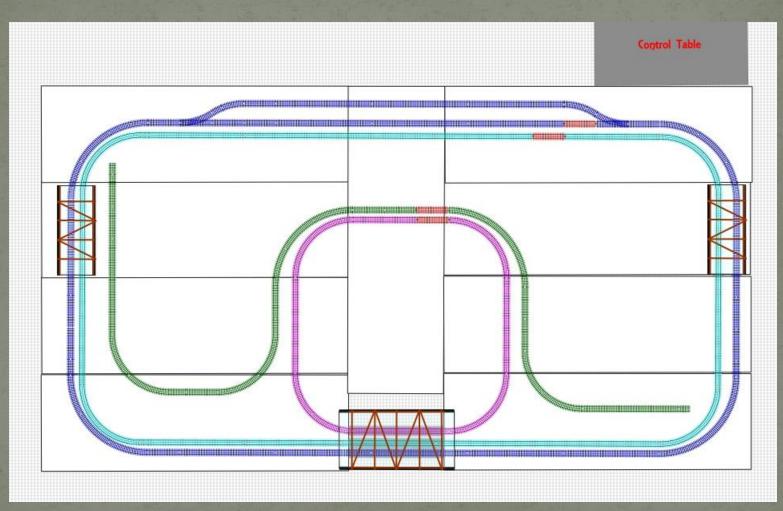
2019 Patton Free Library Bath, ME



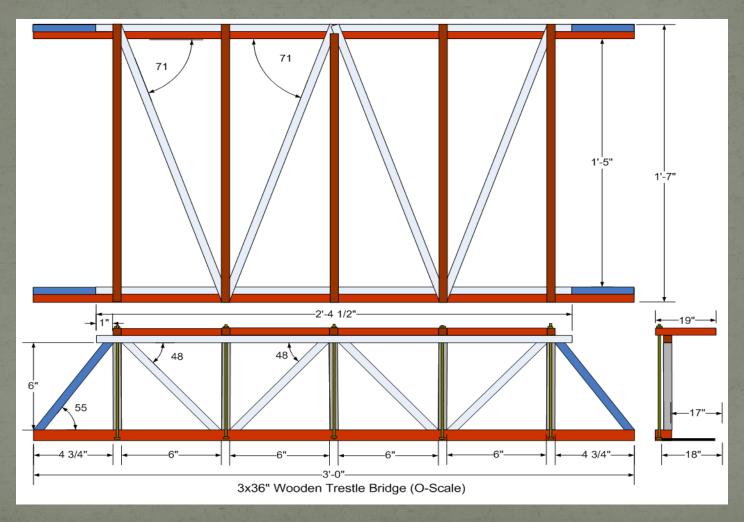
NEED: Run 3 Tracks Over Same Bridge



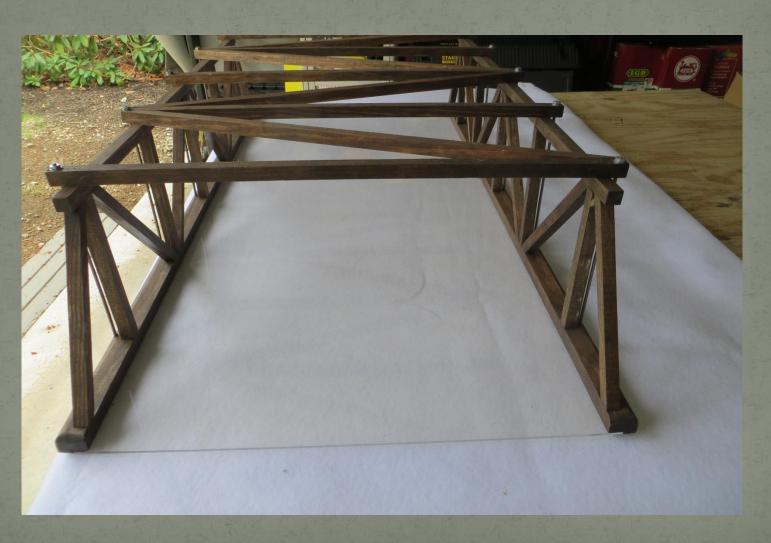
2018 Maine State Museum Final Design



36" Triple Track O-scale Truss Bridge



36" Triple Track O-scale Truss Bridge



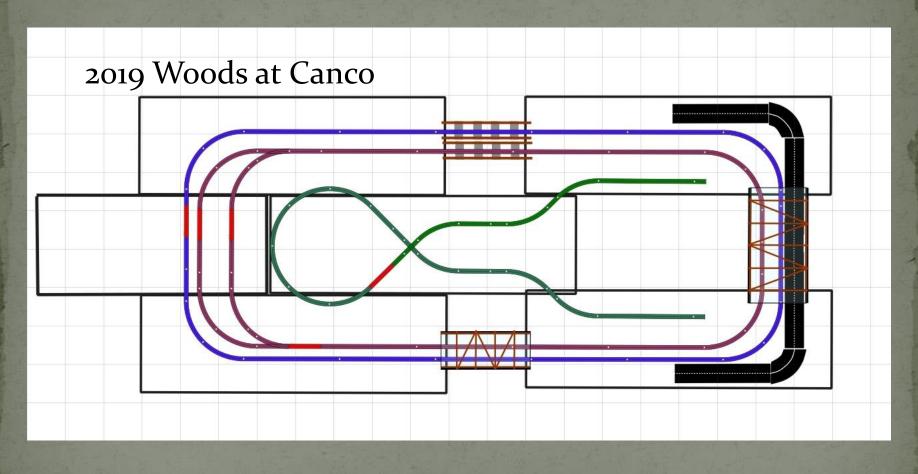
2018 Maine State Museum



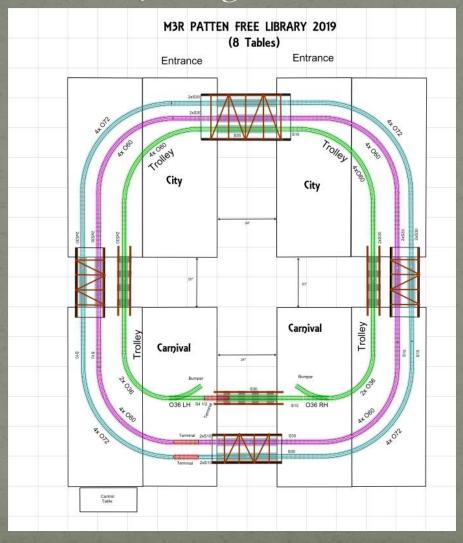
2019 Maine Veteran's Home Augusta



Example of Three Track Bridge Variant



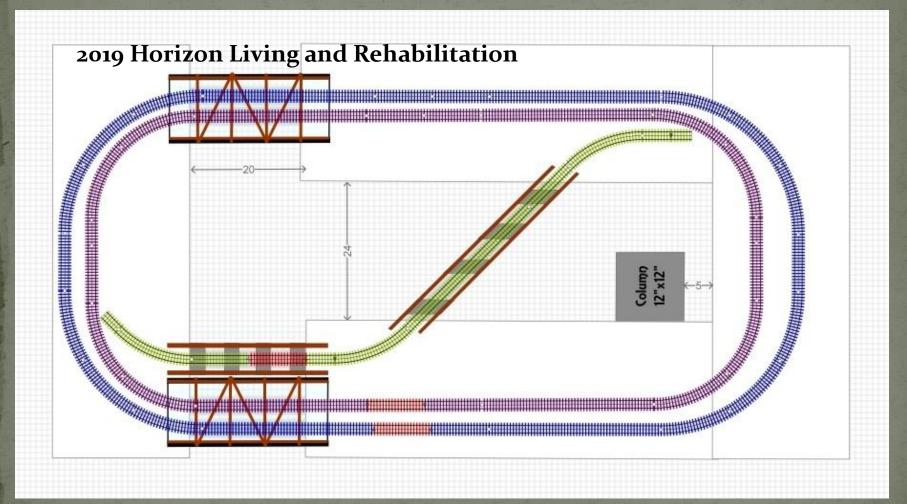
NEED: Maximize Layout area with few tables and limited room size – 7 Bridges



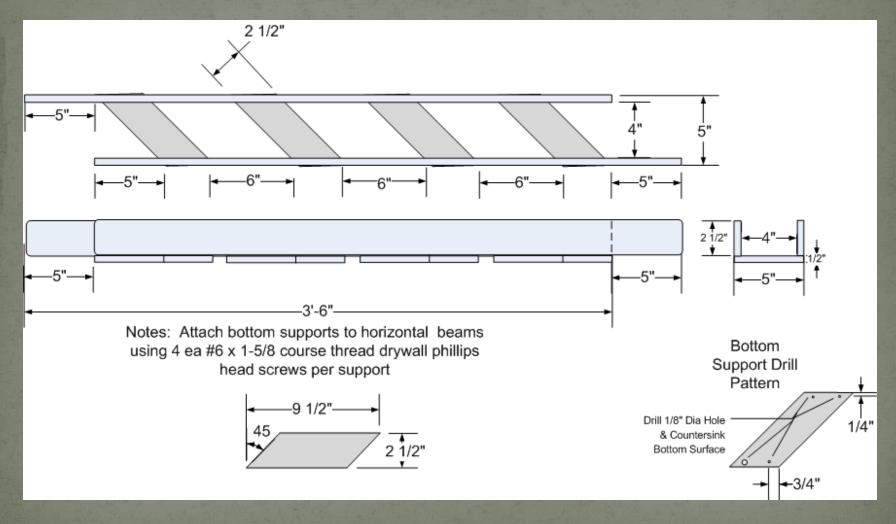
2019 Patten Free Library



NEED: Diagonal Bridge for small layout



24"Single Track O-scale Girder Bridge Slanted 45 degrees Right



2019 Horizon Living and Rehabilitation



Girder Bridge Variants:



w/Thin Base Rails



36" Dual Track Girder Bridge



90 Degree Crossing Girder Bridge

NEED: Retrofit 42' Single Track G-Scale Truss Bridge to remove raised bed







NEED: Resolve Truss Bridge Plexiglas Base cracking failures.



Large Triangular Corner Broke Free during transport

Cracks emanating from Counter Sunk Screw Holes



Plexiglas Cracking Solution



Replaced Plexiglas base with Galvanized Sheet Metal

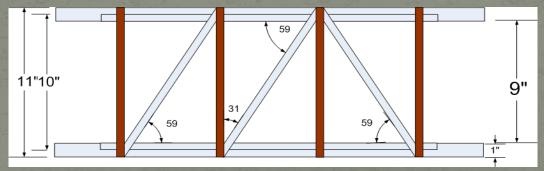
Painted Sheet Metal w/ Flat Black Rust-oleum Spray Paint



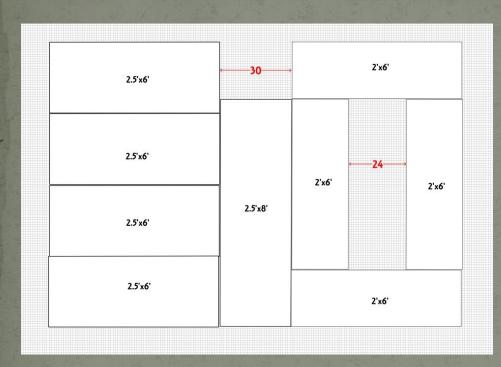
Helpful Hint: Bridge Width

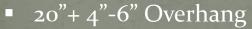
- Fastrack O-scale: 3 1/2" per track
- Add ½" between curb and Outside tracks
- Add 1"-2" spacing between tracks
- Example: Dual track bridge 2x 3 ½" for tracks + 2x1/2"
 curb space + 1" track separation = 9"

28" Dual Track O-scale Truss Bridge

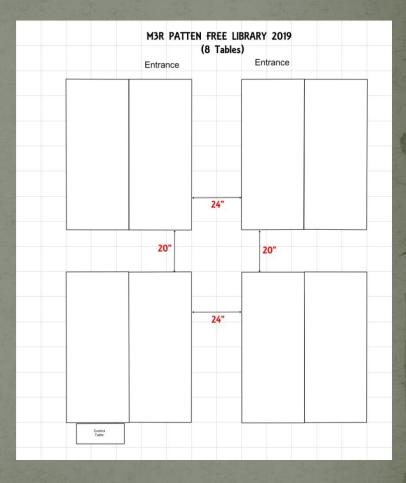


Helpful Hint: Typical Gaps





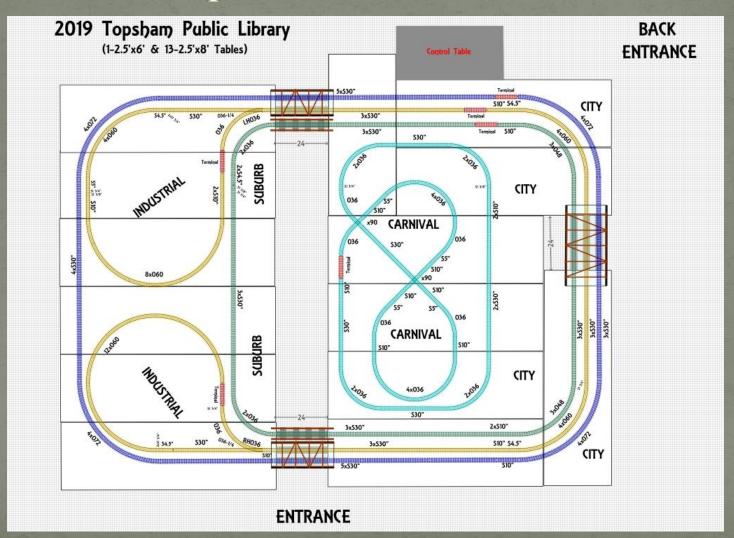
- 24"+ 4"-6" Overhang
- 30"+ 4"-6" Overhang
- None-Architectural Interest



NEED:

Find more layout alternatives / ideas to add pizazz to M3R Mobile Layouts – more action in less space.

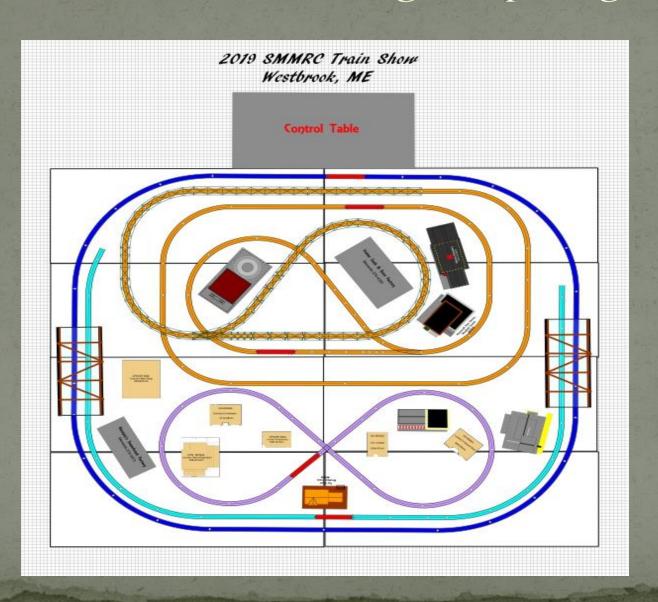
Pretzel Loop Track



2019 Topsham Public Library



Raised Double Reversing Loop Dog Bone



NEED: Raise Reversing Loop

• Lionel 6-12037 – Graduated Trestle Set (22Trestles)



Trestles

• Lionel 6-12038 – Elevated Trestle Set (8 Trestles)



2019 SMMRC Train Show Layout







Helpful Hint: Trestle Assembly

- Match # under trestle base to trestle #. For example,
 9/10 base for #10 (tallest) trestles.
- Back off top bracket screws on Graduated Trestles ¼ to ½ turn to allow mounting bracket to rotate. This is necessary to accommodate the sloping track.
- Place Trestles ~10" apart.
- Used ½ of Graduated Trestle set and 2 Elevated Trestle sets at 2019 SMMRC Train Show.

Thank You for Listening

NeedInnovateAdaptand Adapt Again!