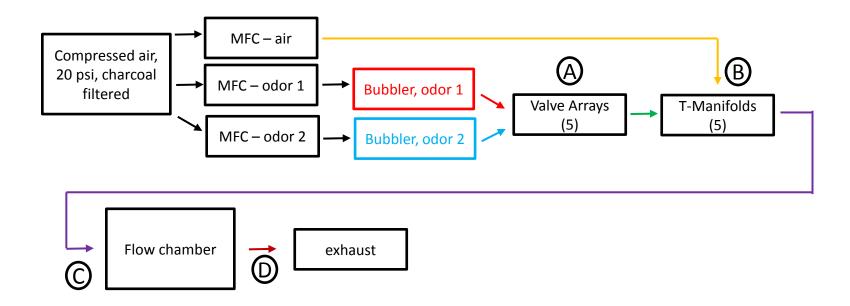
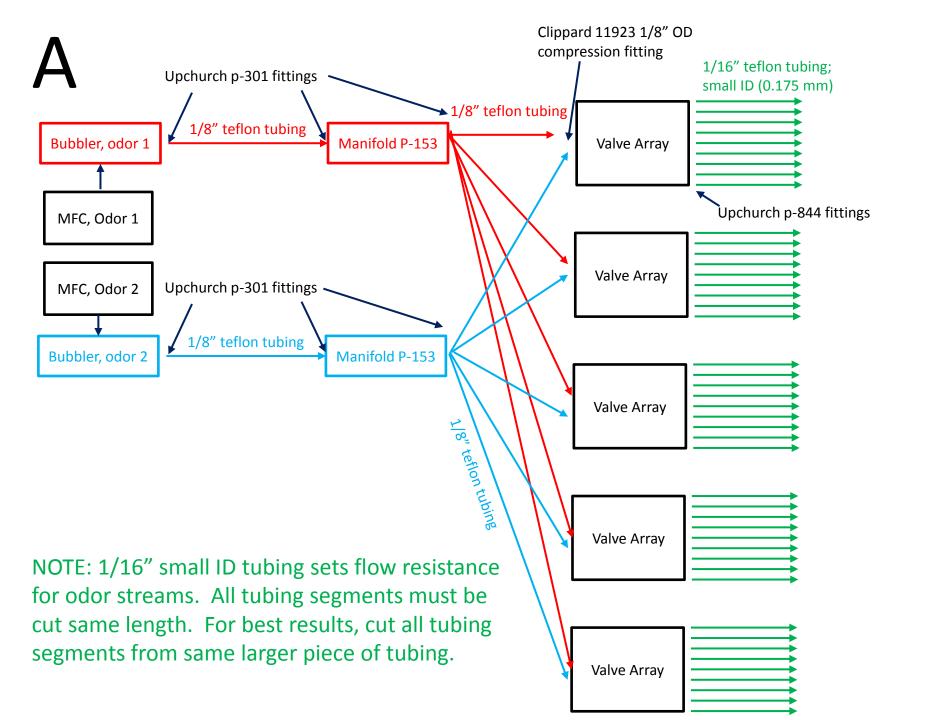
# LADY GAGA V2 Basic flow scheme arrow indicates air flows between components in indicated direction. Letters indicate details follow on subsequent pages.

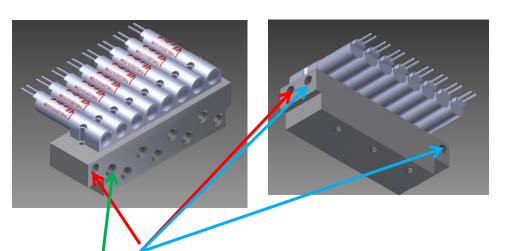


Note: all clippard fittings require that the buna-n gasket (default) be replaced by epdm





### Manifold with valves

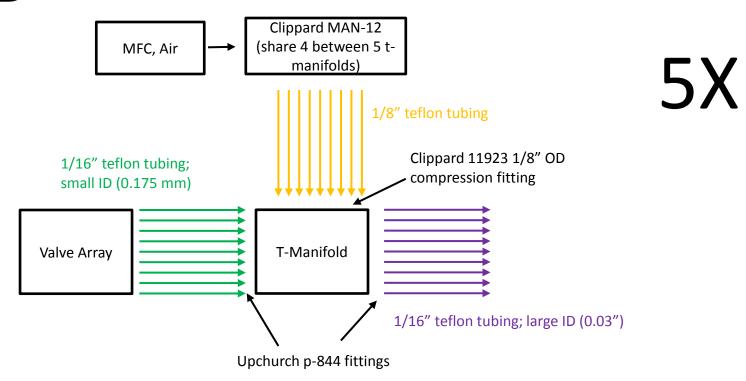


Odor 1 (NO) inlet, Odor 2 (NC) inlet: connect with clippard 10-32 to 1/8" compression fitting and 1/8" OD teflon tubing or seal with clippard 10-32 plug

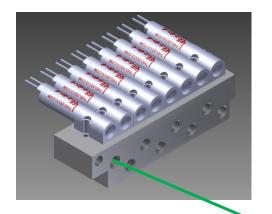
Valve common (outlet), 8X: connect with upchurch 10-32 flat bottom vacutight fitting to 1/16" OD, 175 um ID

To distribute odor to 5 valve manifolds, use upchurch p-153, 6-port manifold for 1/8" OD tubing

B



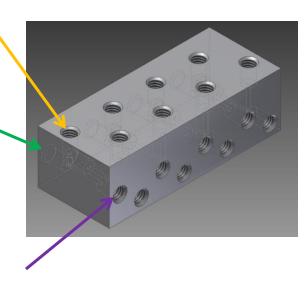
NOTE: 1/16" large ID tubing sets flow resistance for air streams. All tubing segments must be cut same length. For best results, cut all tubing segments from same larger piece of tubing.



Air inlet 8x. Connect with 10-32 clippard compression fittings to 1/8" OD teflon tubing.

B

Odor flows from valve manifold to t-manifold through 1/16" OD 175 um ID teflon tubing (connect at both ends with 10-32 vacutight fittings) (8x)

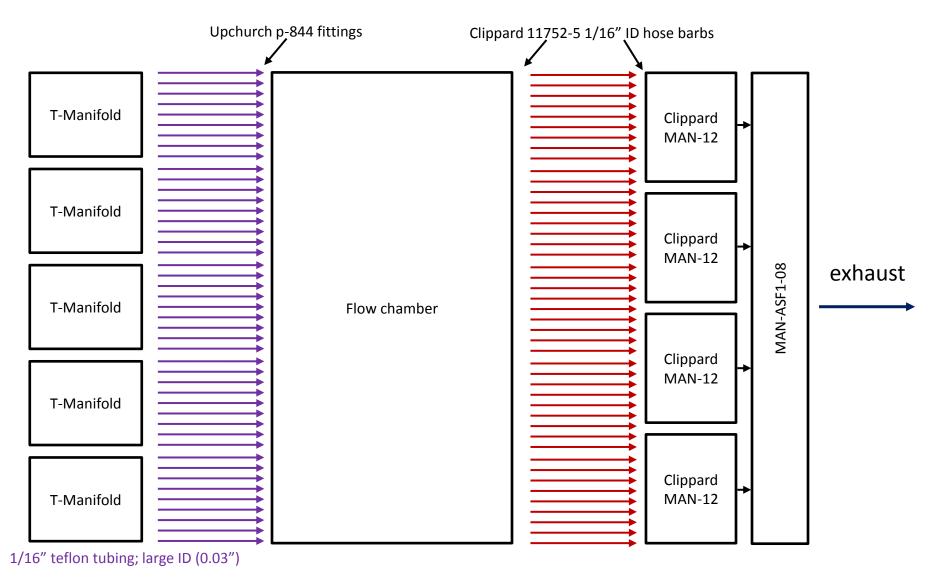


T-manifold

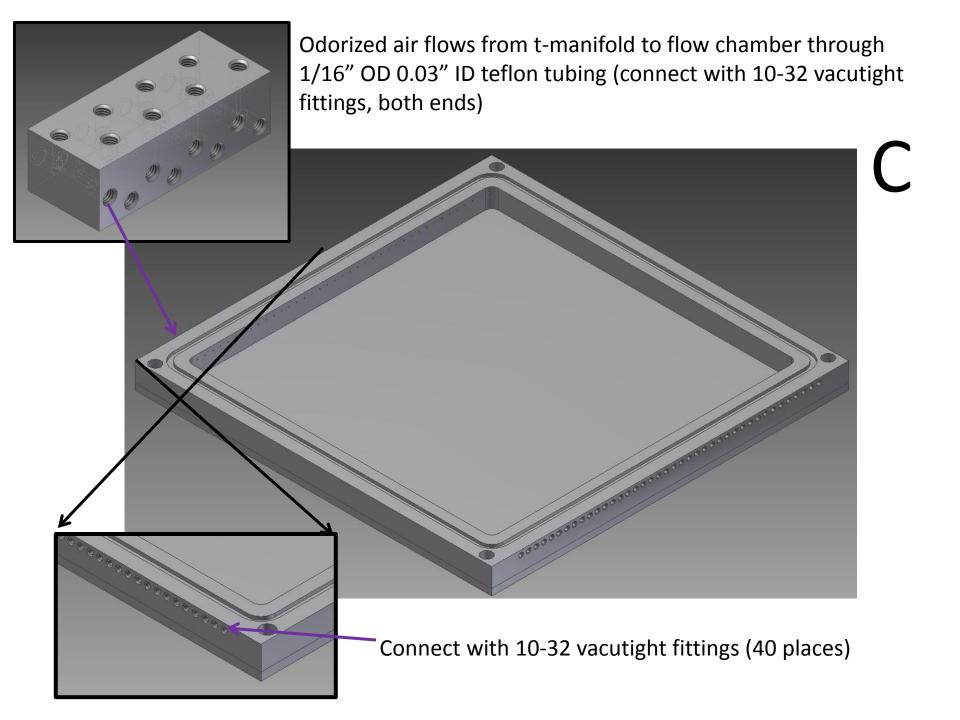
Combined air and odor outlet, 8x. Connect with 10-32 vacutight fittings and 1/16" OD, 0.03" ID teflon tubing.

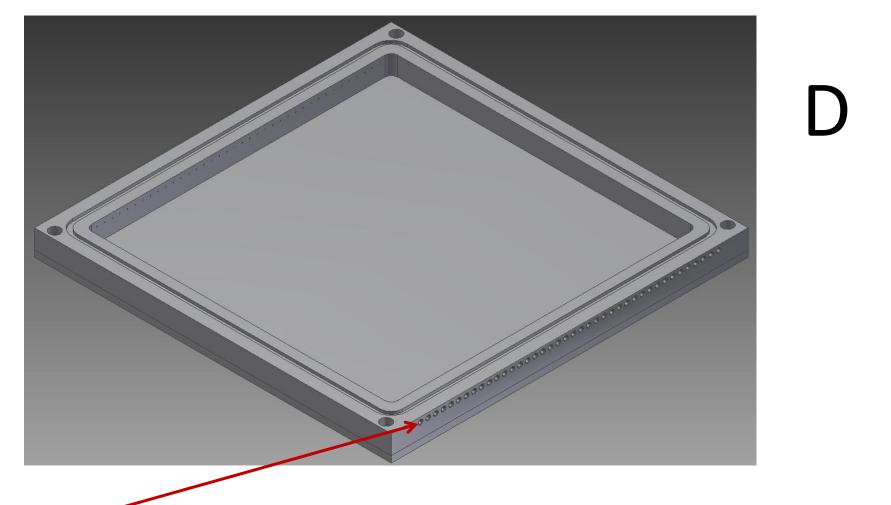
Notes: to combine multiple valve arrays, use t-manifolds in series, connected with 1/16" OD 0.03" ID tubing. Air inlet should be last connection.

To distribute air to each inlet, use clippard MAN-12 and NPT tees.



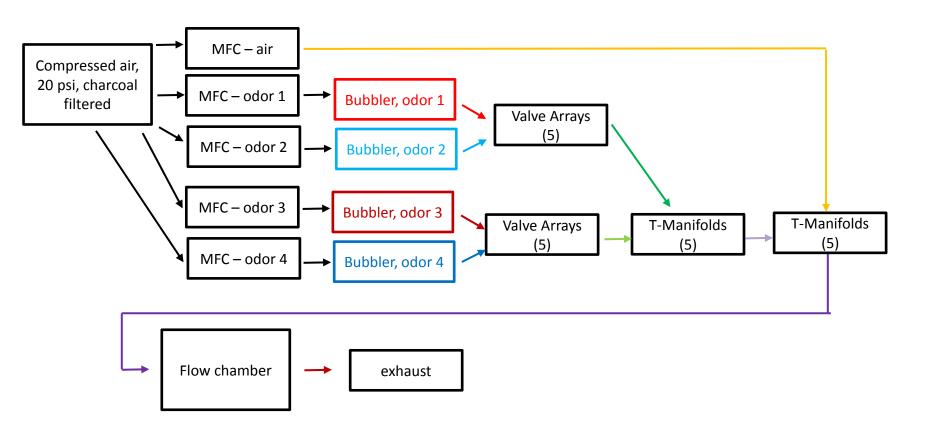
 $\mathsf{C},\mathsf{D}$ 

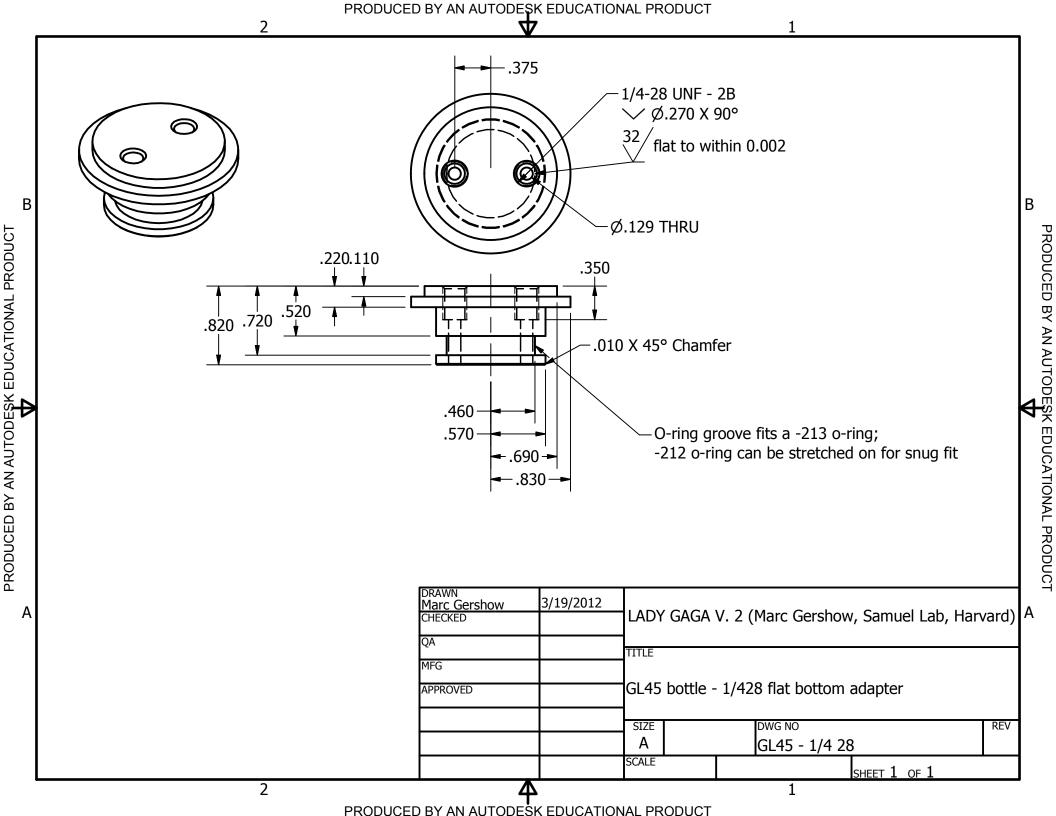


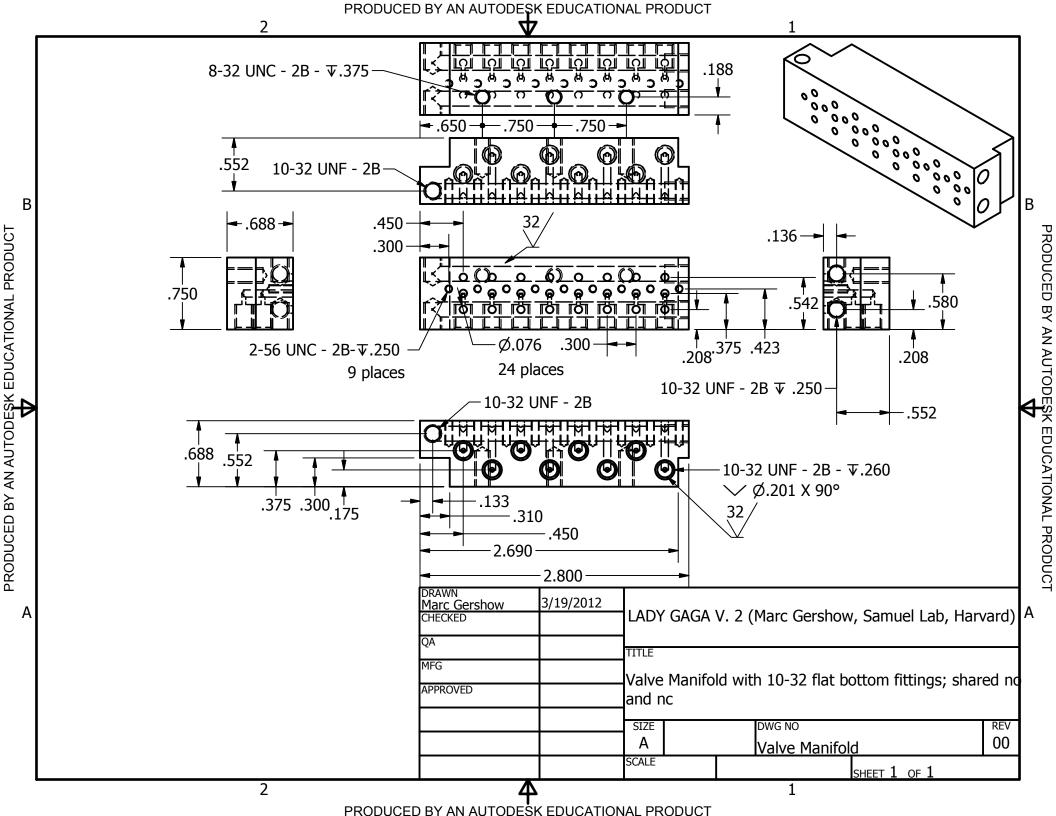


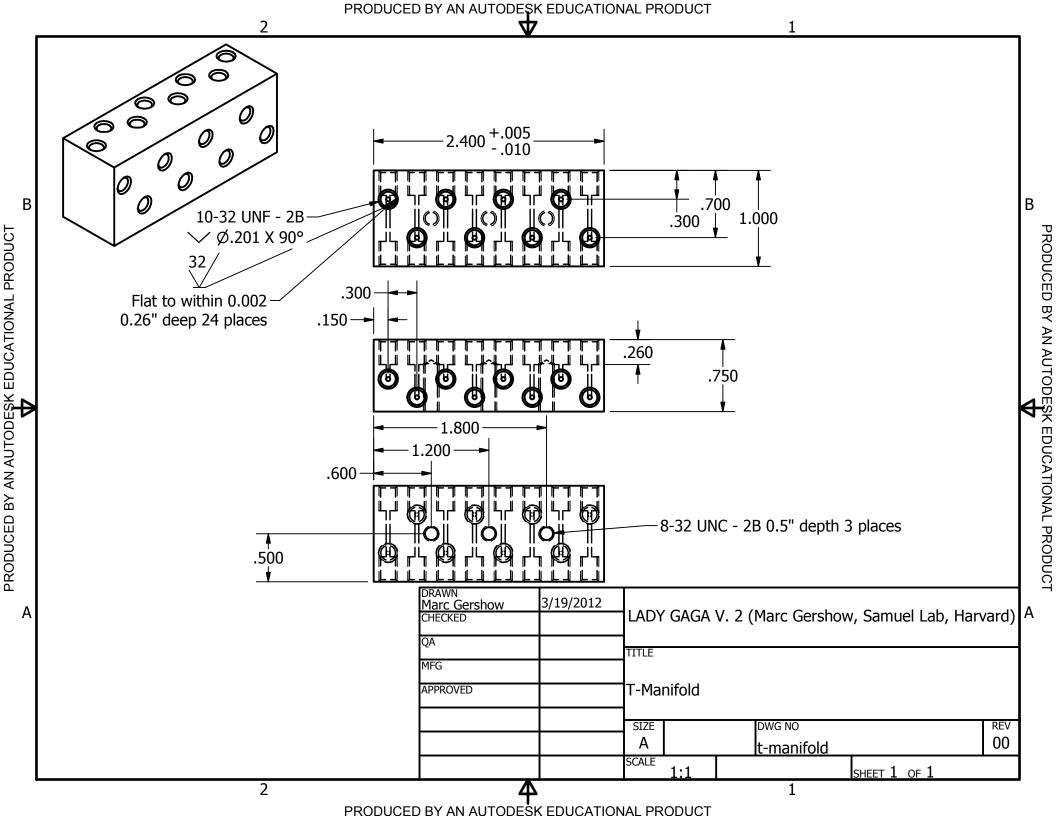
Flow chamber outlet: connect with clippard 10-32 to 1/16" ID hose barbs to 1/8" OD, 1/16" ID fep lined tygon tubing (40 x). Connect other end to clippard MAN-12 using clippard barbs. Connect all MAN-12s to MAN-ASF1-08 (use NPT plugs to fill empty connections). connect MAN-ASF1-08 to tubing (this is the outlet, which should run through a flow meter and then into whatever venting system you decide to use)

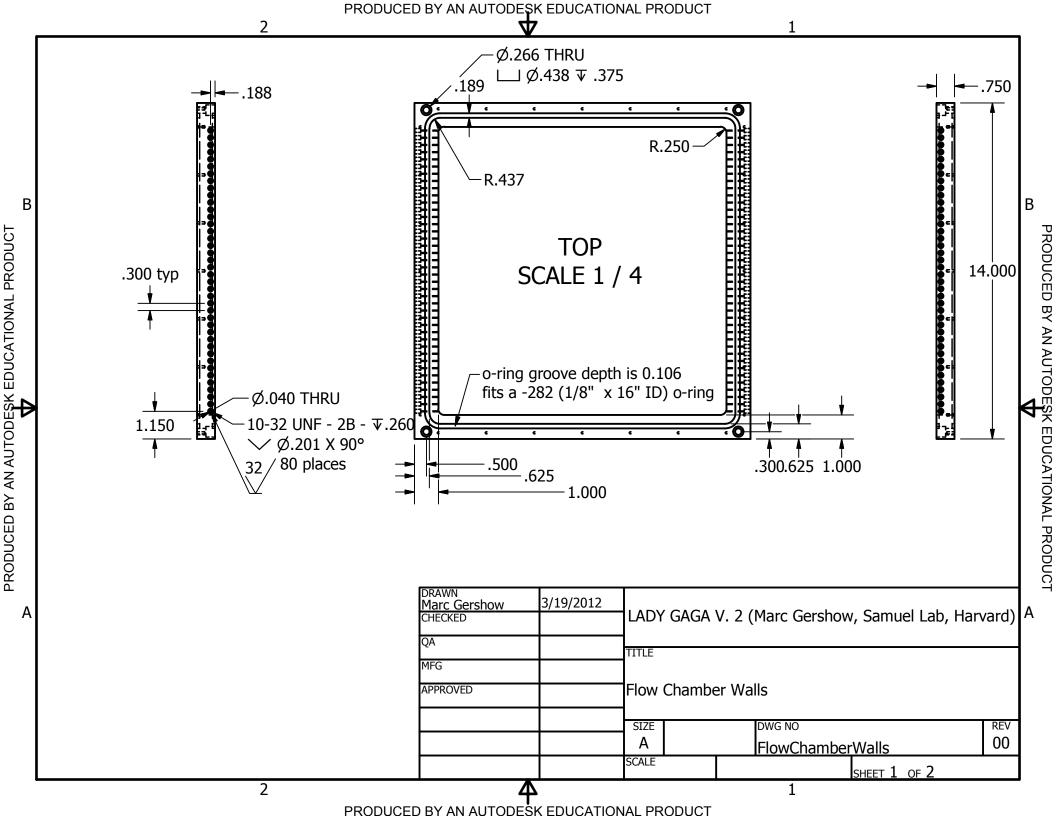
# Alternate connection scheme for multiple independent valve arrays

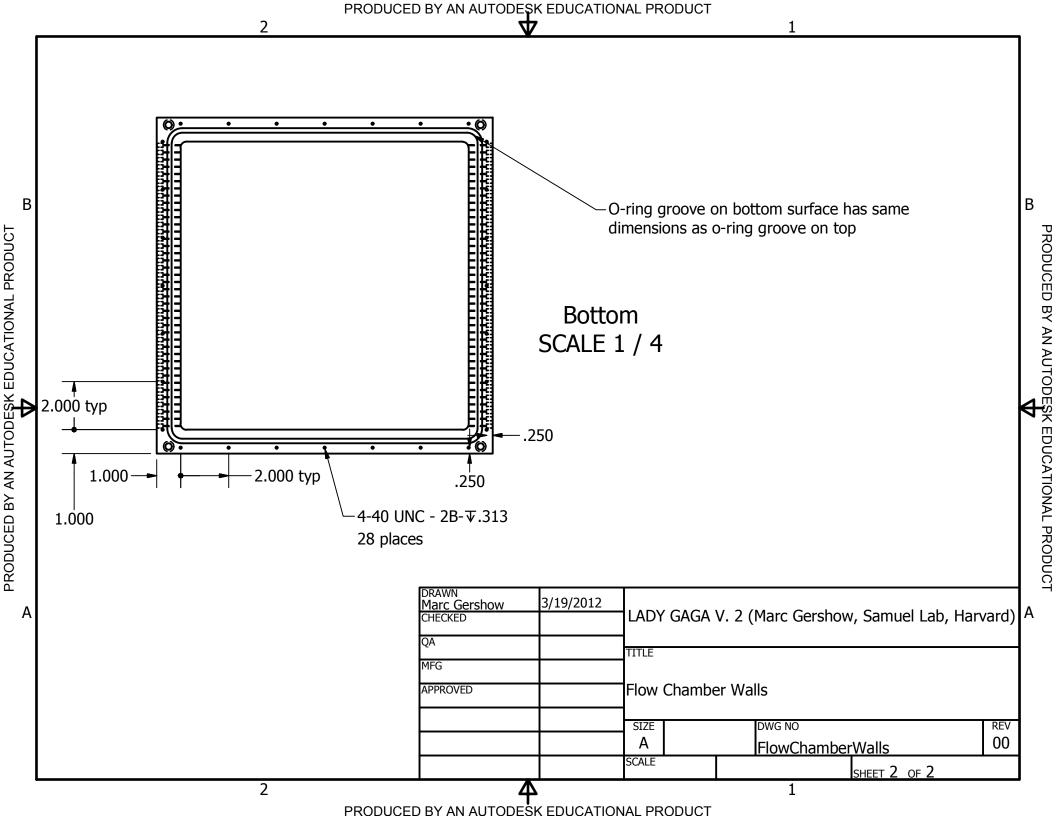


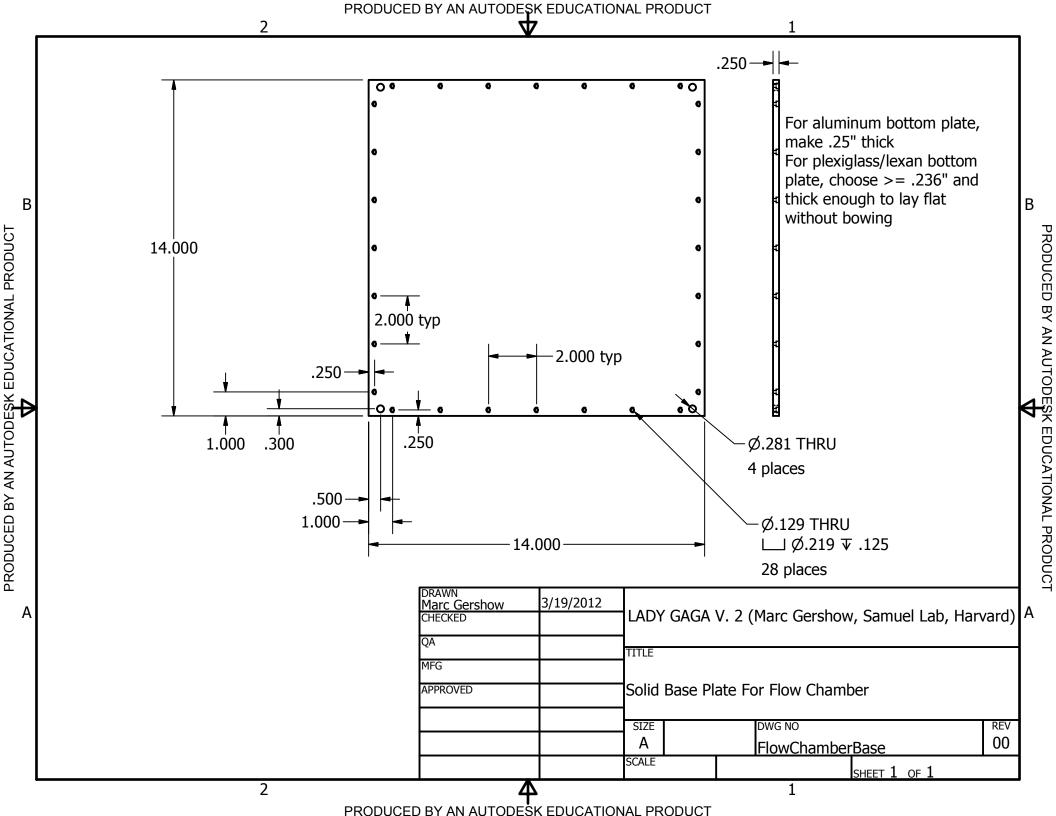


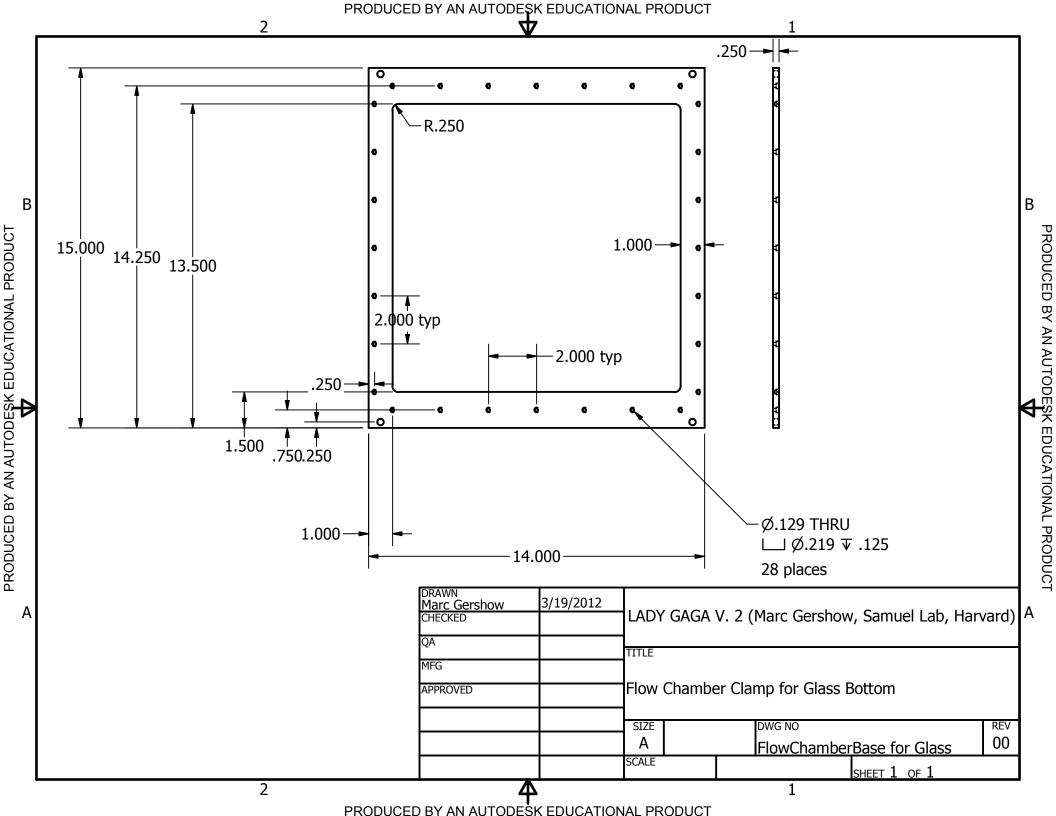


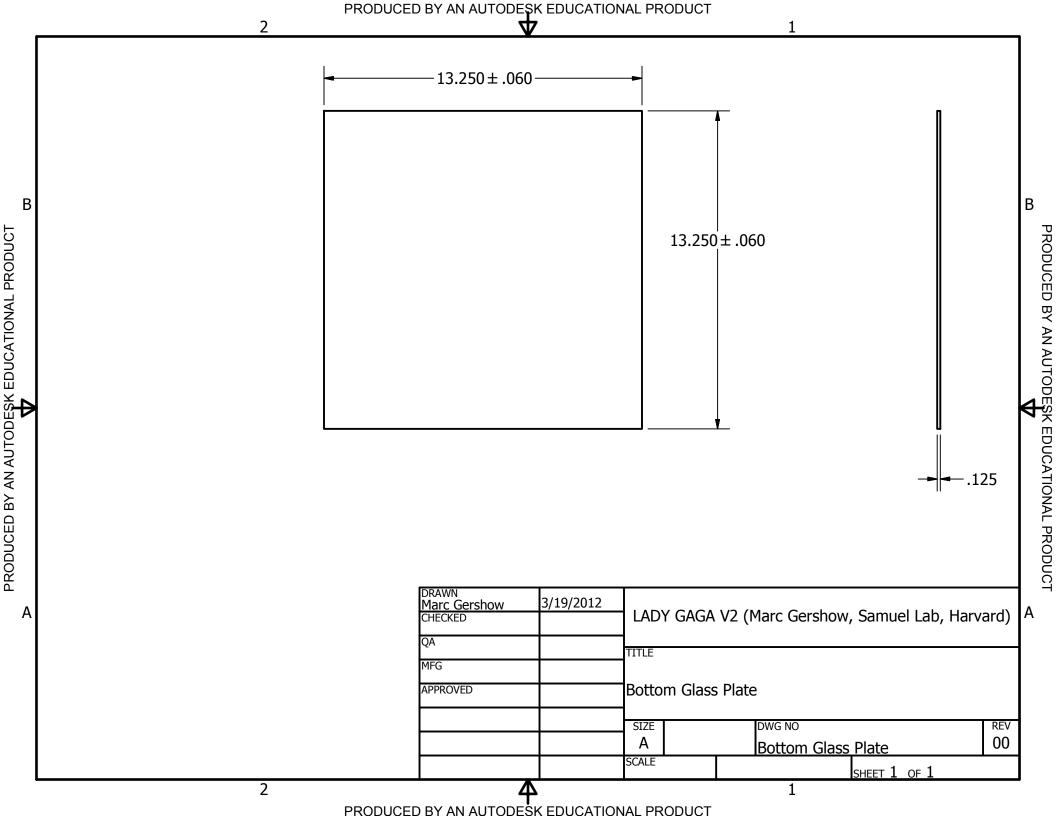


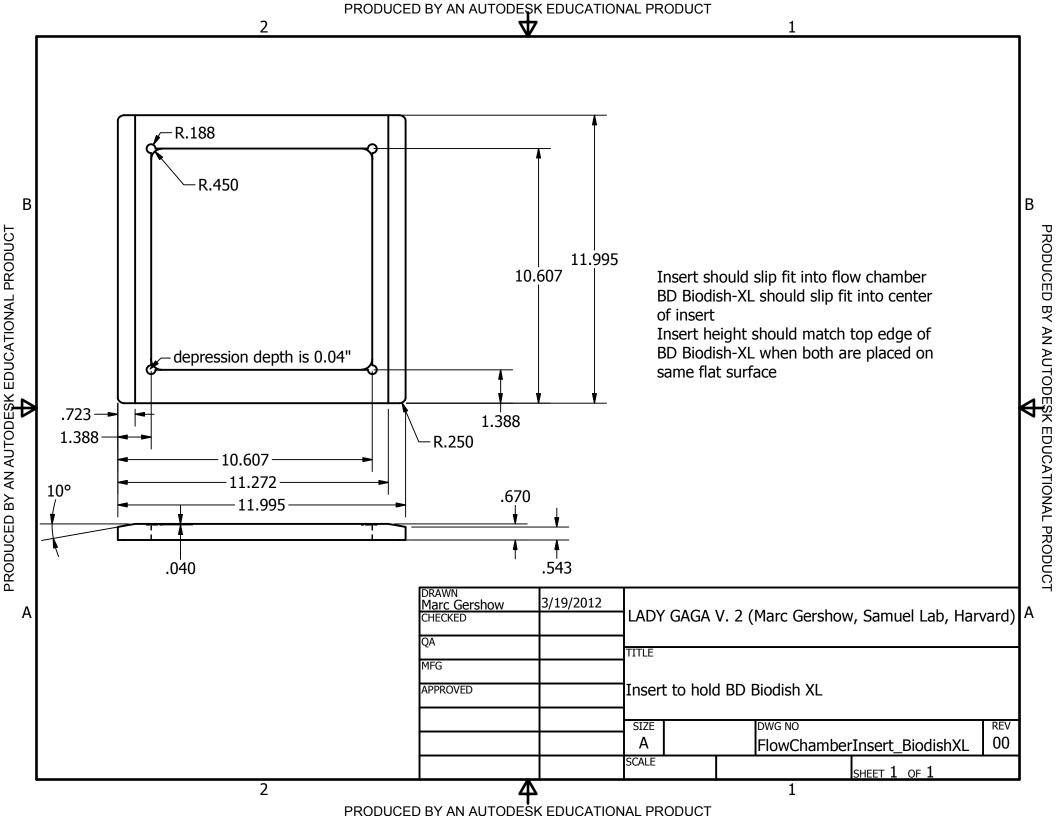


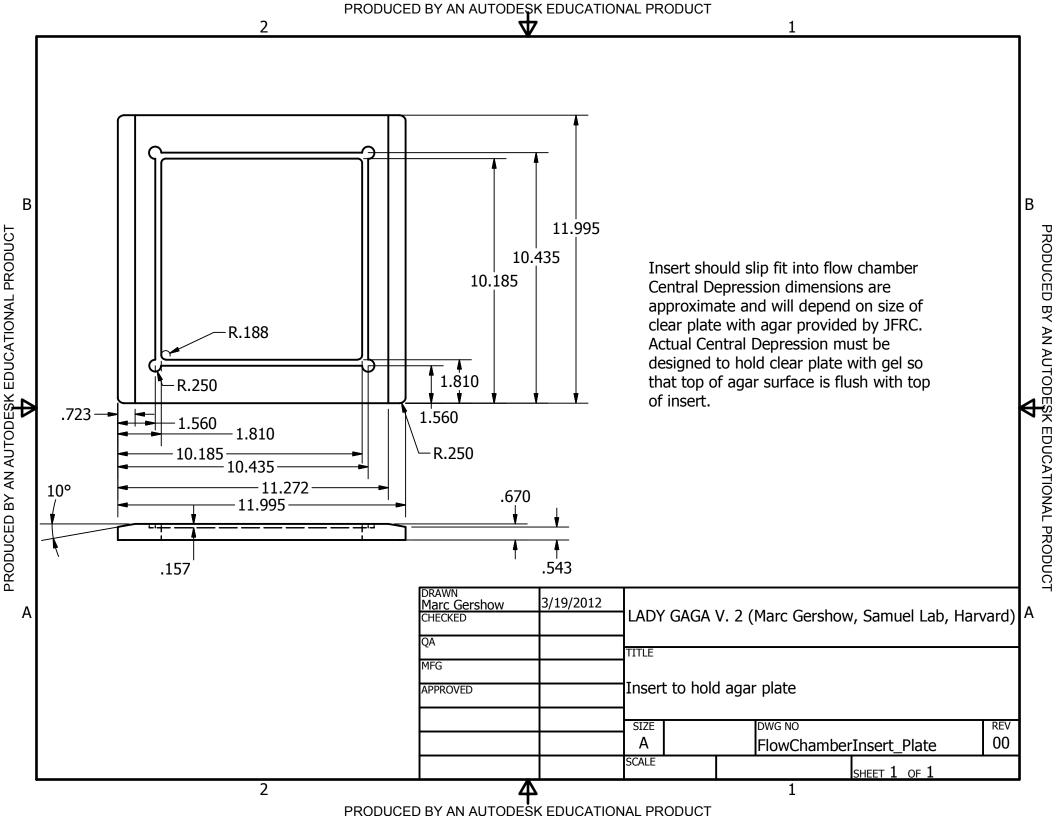


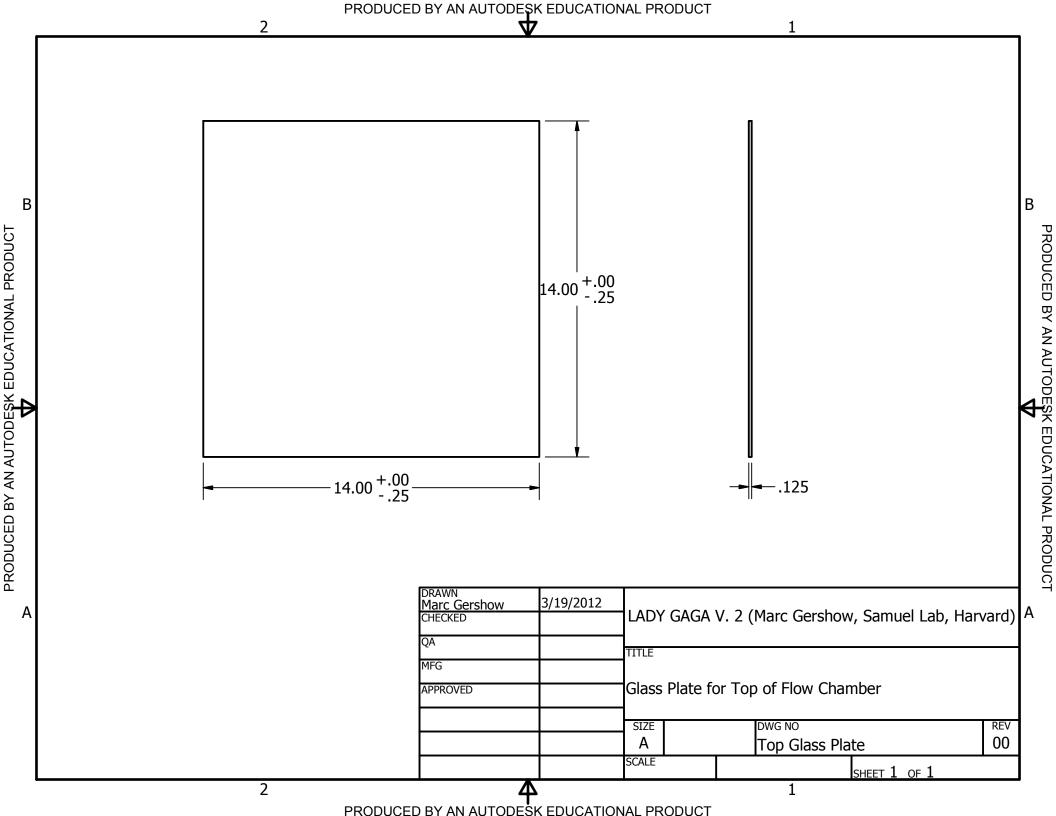


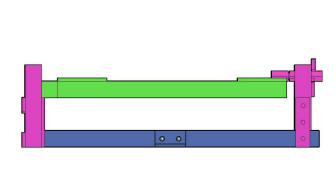


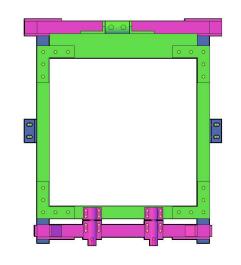


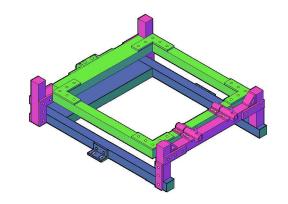


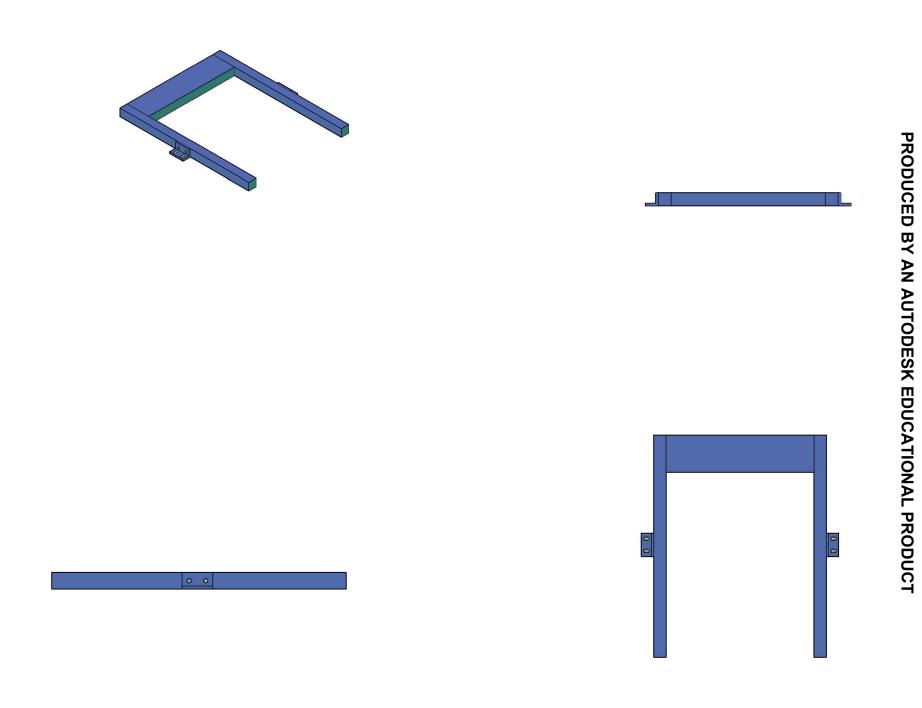




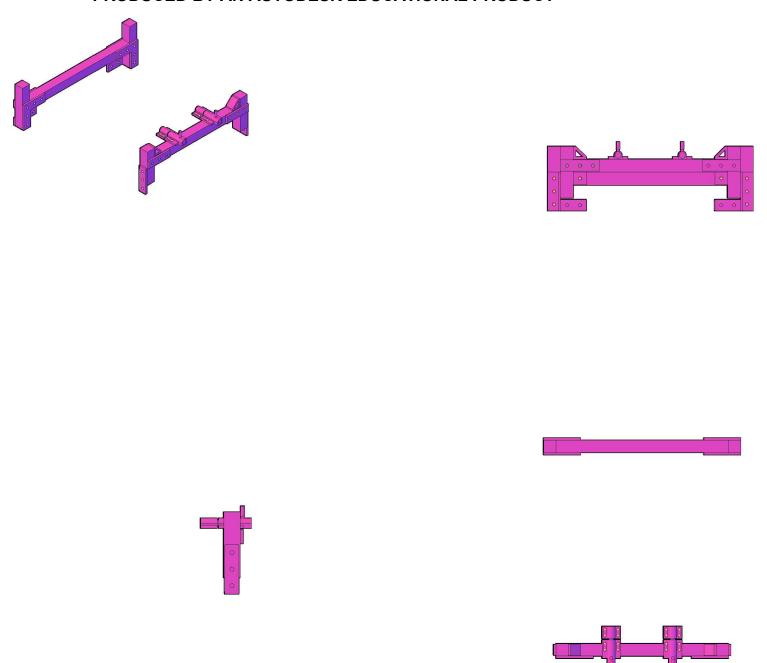




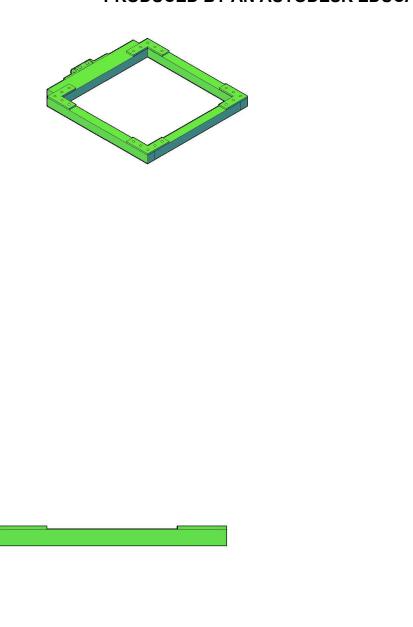


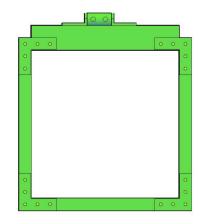


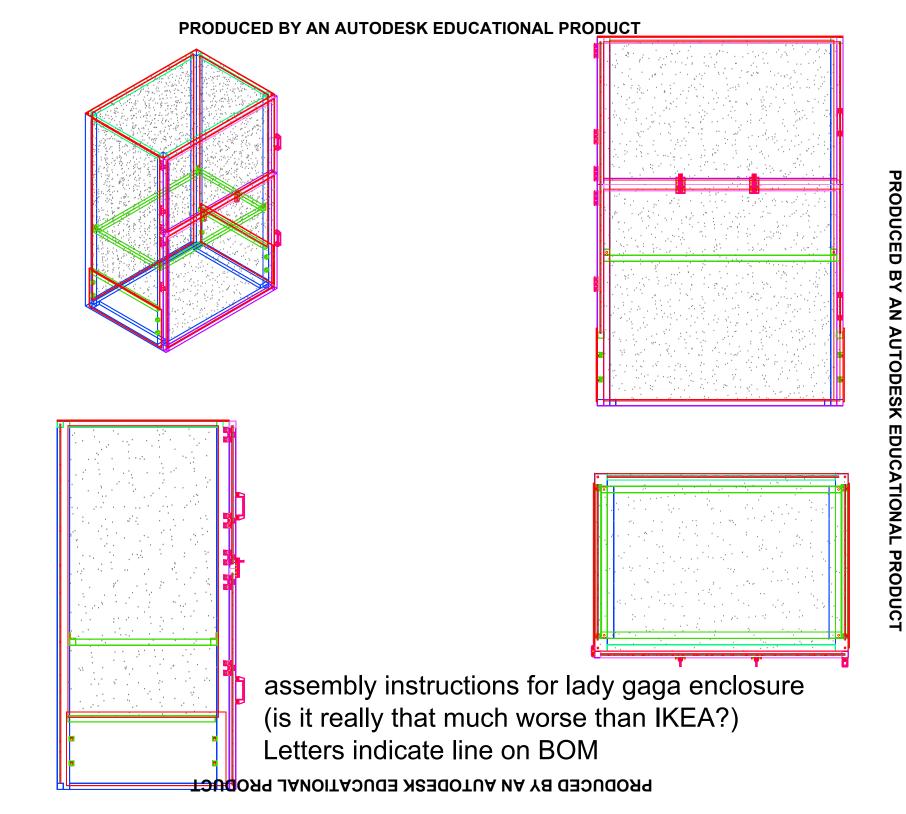
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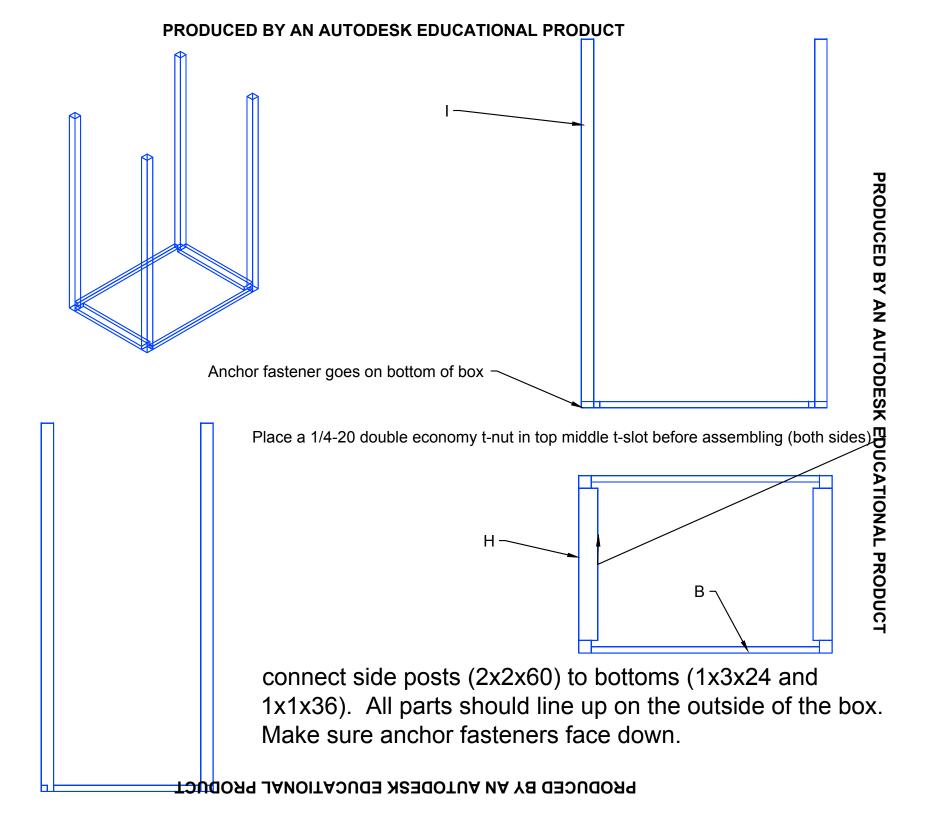


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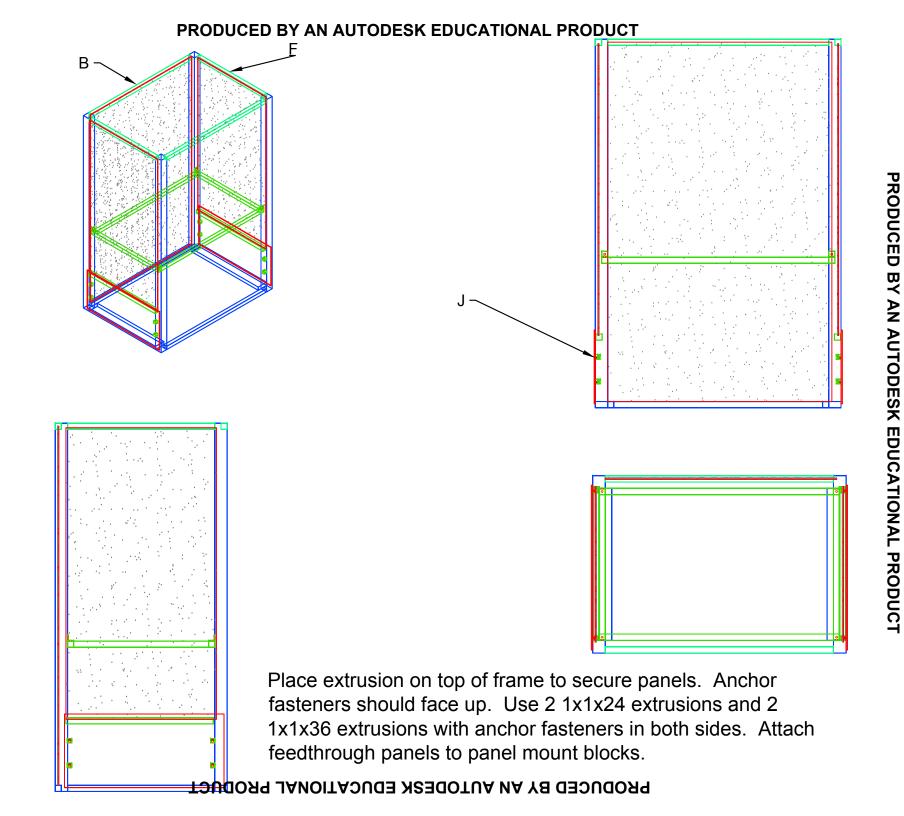




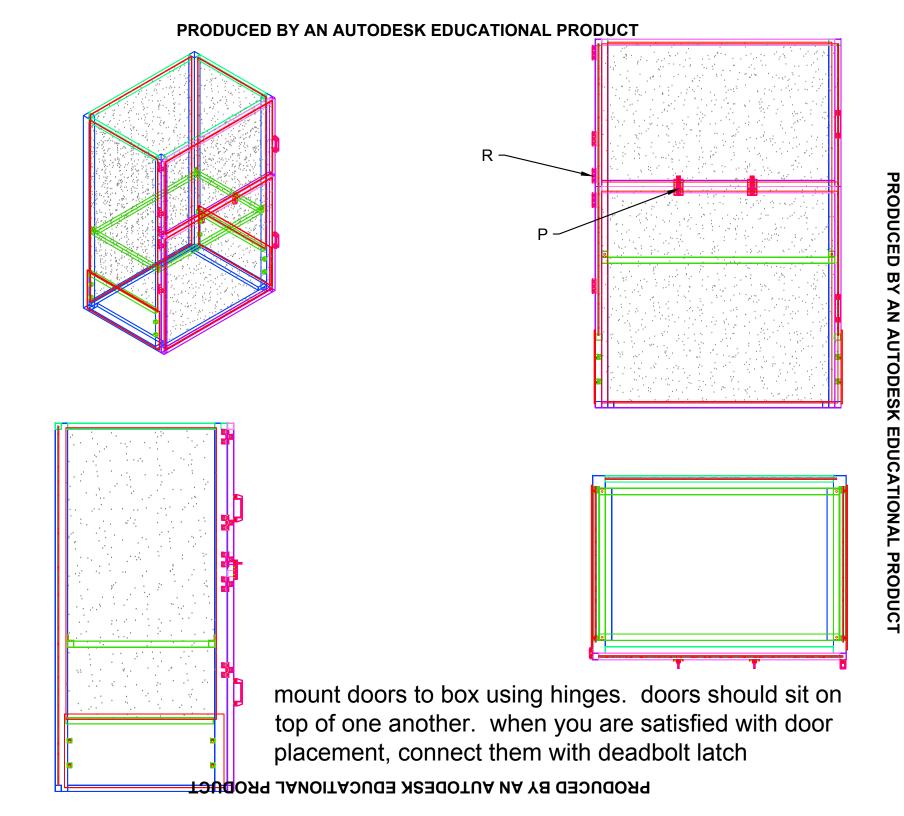


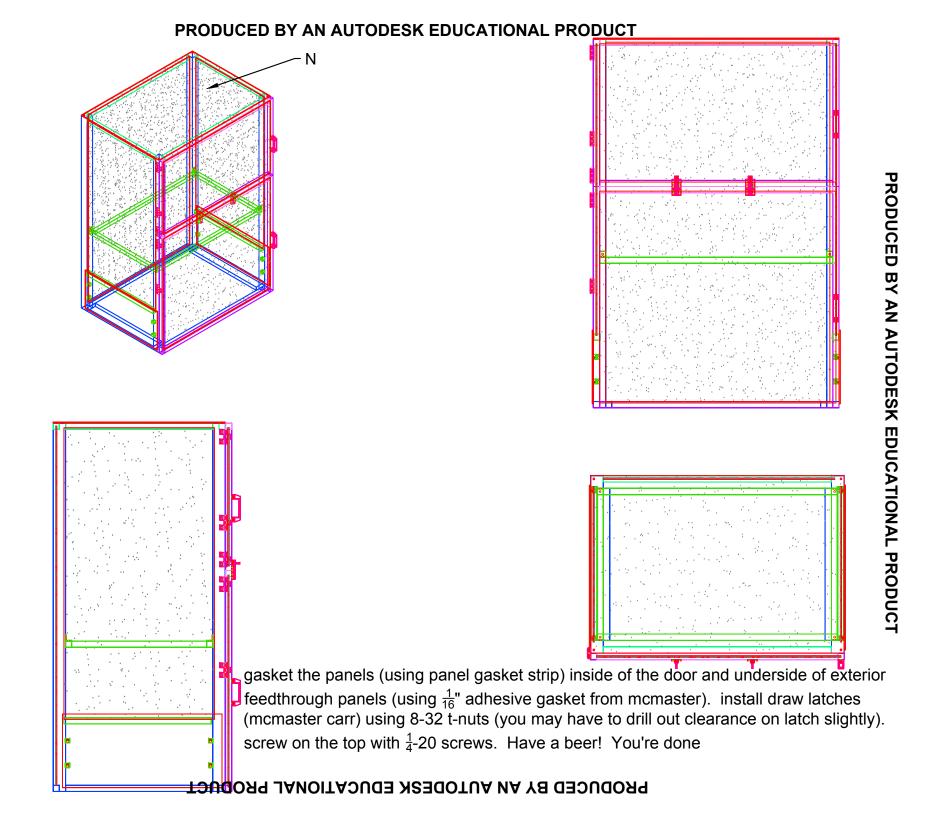


# PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT insert panels into t-slots. back panel is 36.5x58.5. side panels are 24.5 x 47.5. face textured surface in. PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT



assemble doors. Although drawn together here, doors are separate and are not screwed together. Start by assembling sides (1x1x24 x 2 pieces top; 1x1x36 x 2 pieces bottom) and bottoms (1x1x38 with anchor fasteners in either end). Face anchor fasteners down.





extra hardware (really just to confuse you, but also possibly useful). Extra extrusion to construct interior scaffolding; tubing supports; extra I-brackets. 4 hole plates to attach breadboard to frame. Also included an assortment of extra t-nuts and some tools.

