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**STRUCTURAL ENGINEERING**

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Project: \_\_\_\_\_

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BATH DOME SUPPORT

$W_D = 10 \text{ PSF}$   
 $W_L = 20 \text{ PSF}$

$W = (10+20) \times 3$   
 $W = 90 \text{ #/ft}$   
 $R_i = 270 \text{ #}$

$M = 405 \text{ #-ft}$        $S_{req} = 0.23 \text{ IN}^3$

$C = T = (90 \times \frac{6^2}{2}) / 6 = 270 \text{ # (T \& N d/or COMP)}$

$\therefore$  USB: ~~X~~ 2x2x1/4

