

**BELIMED, INC.**

**509 STERILIZER**

DES. **R. LA BRIE**

JOB NO. **11-0832**

DATE **3/6/08**

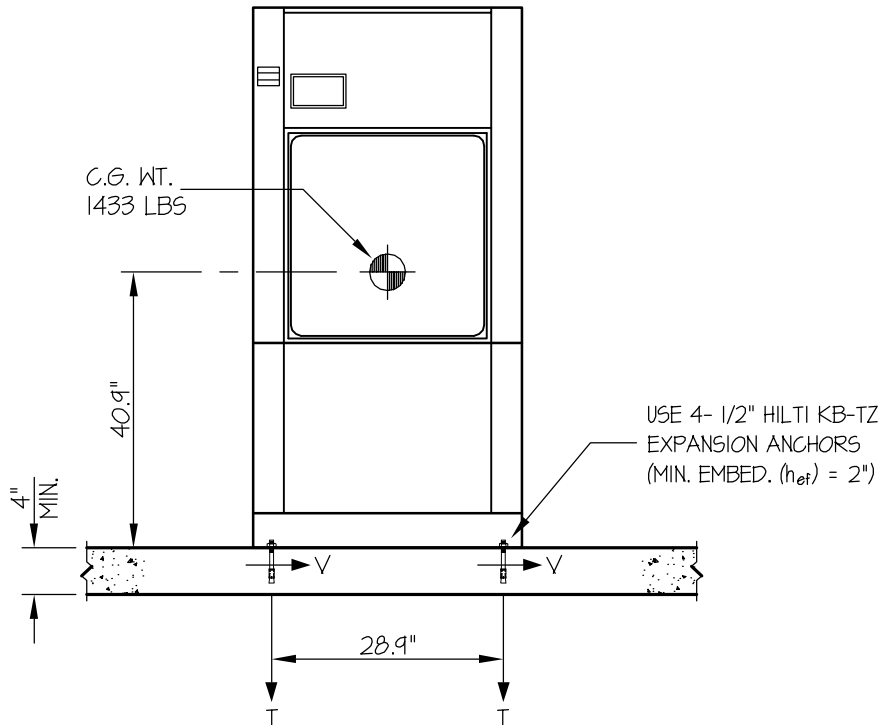
SHEET

**1**

OF **2** SHEETS

SEISMIC ANCHORAGE

SLAB ON GRADE



**ELEVATION**

$T_{MAX} = 432 \text{ LBS/BOLT}$   
 $V_{MAX} = 176 \text{ LBS/BOLT}$

**NOTES:**

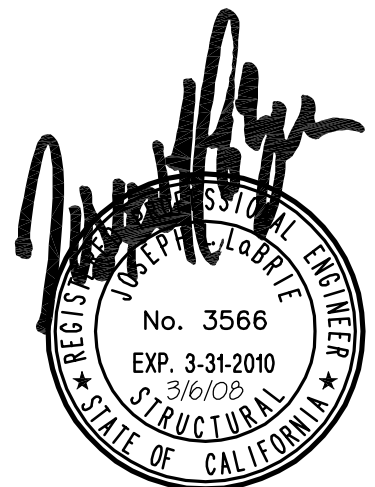
1. FORCES ARE DETERMINED PER 2007 CALIFORNIA BUILDING CODE SECTION 1613A AND ASCE 7-05 SECTIONS 12 AND 13. ALLOWABLE STRESS DESIGN IS USED.

HORIZONTAL FORCE ( $E_H$ ) =  $0.42 W_p$  ( $S_{DS} = 133$ ,  $a_p = 10$ ,  $I_p = 15$ ,  $R_p = 2.5$ )

VERTICAL FORCE ( $E_V$ ) =  $0.19 W_p$

2. CENTER OF GRAVITY (C.G.) WEIGHT IS A MAXIMUM. THIS CALCULATION ENCOMPASSES ALL WEIGHTS UP TO THE MAXIMUM WEIGHT SHOWN.

3. ARCHITECT OR STRUCTURAL ENGINEER OF RECORD SHALL PROVIDE SUPPORT STRUCTURE TO SUPPORT WEIGHTS AND FORCES SHOWN.



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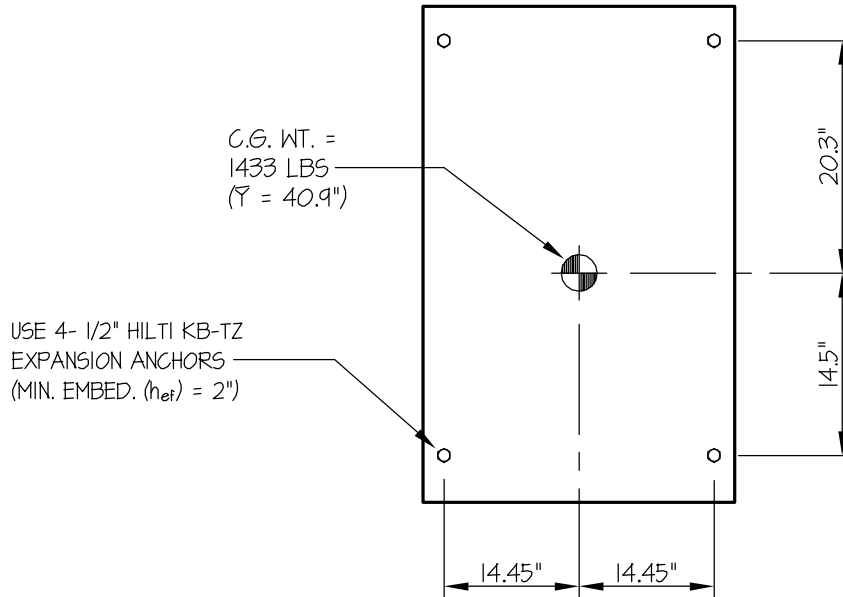
SHEET

**2**

OF **2** SHEETS

SEISMIC ANCHORAGE

SLAB ON GRADE



**PLAN AT BASE**

LOADS:

WEIGHT = 1433 LBS  
HORIZONTAL FORCE ( $E_h$ ) = 602 LBS  
VERTICAL FORCE ( $E_v$ ) = 272 LBS

BOLT FORCES:

TENSION (T)

$$T_{\text{MAXIMUM}} = \left[ \frac{602\#(40.9'')}{2\text{BOLTS}(34.8'')} \times (0.3) \right] + \frac{602\#(40.9'')(20.3'')}{28.9''(34.8'')} - \frac{(1433\#(0.6) - 272\#)(20.3'')}{2\text{BOLTS}(34.8'')} = 432 \text{ LBS/BOLT (MAX)}$$

( HORIZ. - FRONT TO BACK )                      ( HORIZ. - SIDE TO SIDE )                      ( WEIGHT (0.6) -  $E_v$  )

SHEAR (V)

$$V_{\text{MAXIMUM}} = \frac{602\#(20.3'')}{2\text{BOLTS}(34.8'')} = 176 \text{ LBS/BOLT (MAX)}$$

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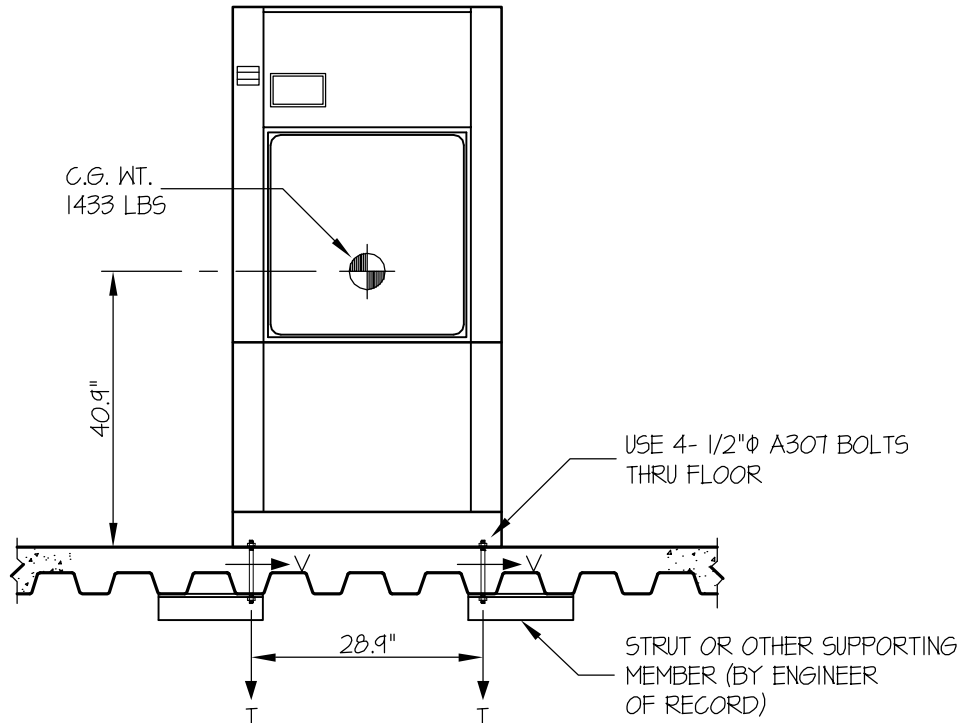
SHEET

**1**

OF **2** SHEETS

SEISMIC ANCHORAGE

UPPER FLOOR



**ELEVATION**

$T_{MAX} = 834 \text{ LBS/BOLT}$   
 $V_{MAX} = 293 \text{ LBS/BOLT}$

NOTES:

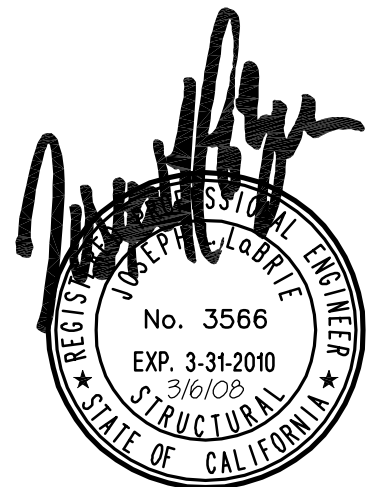
1. FORCES ARE DETERMINED PER 2007 CALIFORNIA BUILDING CODE SECTION 1613A AND ASCE 7-05 SECTIONS 12 AND 13. ALLOWABLE STRESS DESIGN IS USED.

HORIZONTAL FORCE ( $E_H$ ) =  $0.7 W_p$  ( $S_{DS} = 1.33$ ,  $a_p = 1.0$ ,  $I_p = 1.5$ ,  $R_p = 2.5$ )

VERTICAL FORCE ( $E_v$ ) =  $0.19 W_p$

2. CENTER OF GRAVITY (C.G.) WEIGHT IS A MAXIMUM. THIS CALCULATION ENCOMPASSES ALL WEIGHTS UP TO THE MAXIMUM WEIGHT SHOWN.

3. ARCHITECT OR STRUCTURAL ENGINEER OF RECORD SHALL PROVIDE SUPPORT STRUCTURE TO SUPPORT WEIGHTS AND FORCES SHOWN.



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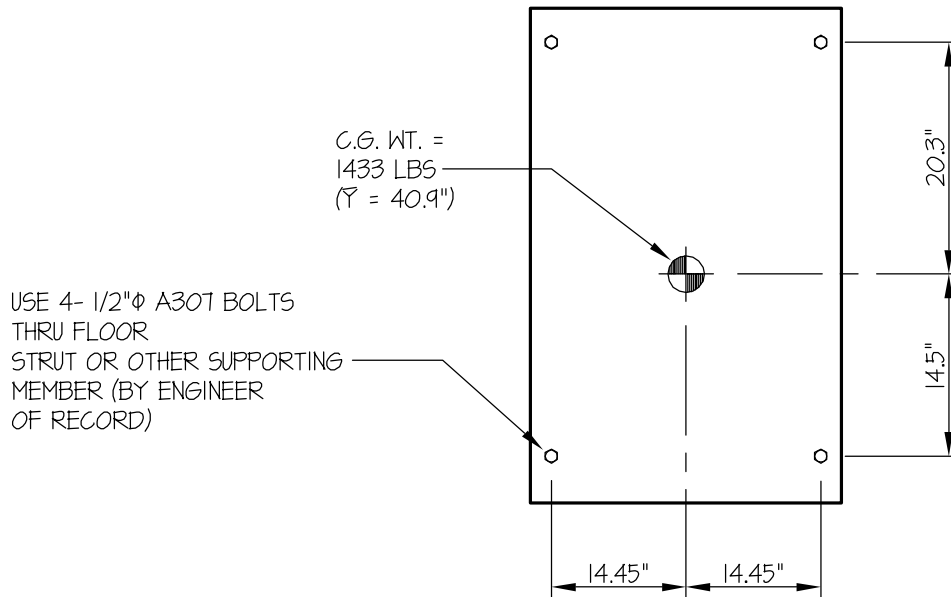
SHEET

**2**

OF **2** SHEETS

SEISMIC ANCHORAGE

UPPER FLOOR



**PLAN AT BASE**

LOADS:

WEIGHT = 1433 LBS  
HORIZONTAL FORCE ( $E_h$ ) = 1003 LBS  
VERTICAL FORCE ( $E_v$ ) = 272 LBS

BOLT FORCES:

TENSION (T)

$$T_{\text{MAXIMUM}} = \left[ \frac{1003\#(40.9'')}{2\text{BOLTS}(34.8'')} \times (0.3) \right] + \frac{1003\#(40.9'')(20.3'')}{28.9''(34.8'')} - \frac{(1433\#(0.6) - 272\#)(20.3'')}{2\text{BOLTS}(34.8'')} = 834 \text{ LBS/BOLT (MAX)}$$

( HORIZ - FRONT TO BACK )                      ( HORIZ - SIDE TO SIDE )                      ( WEIGHT (0.6) -  $E_v$  )

SHEAR (V)

$$V_{\text{MAXIMUM}} = \frac{1003\#(20.3'')}{2\text{BOLTS}(34.8'')} = 293 \text{ LBS/BOLT (MAX)}$$