SEISMIC ANCHORAGE

C.G. WT. = 305 LBS

USE 8- 1/4" A307 BOLTS THRU FLOOR

STRUT OR OTHER SUPPORTING MEMBER (BY ENGINEER OF RECORD)

FRONT ELEVATION

LOADS: PER 2001 CALIFORNIA BUILDING CODE - SECTION 1632A (WORKING LOADS, NOT ULTIMATE)

WEIGHT = 305 LBS
HORIZONTAL FORCE ($V_H$) = $0.94W = 287$ LBS
VERTICAL FORCE ($V_V$) = $0.33(V_H) = 96$ LBS

BOLT FORCES:

TENSION ($T$)

\[
T_{\text{SIDE}} = \frac{287\#(54.21") - (305\# - 96\#)9.0"}{2(19.26")} = 356 \text{ LBS/BOLT}
\]

\[
T_{\text{FRONT TO BACK}} = \frac{287\#(54.21") - (305\# - 96\#)1.91"}{2(18.75")} = 371 \text{ LBS/BOLT}
\]

\[
T = 371# + 356#(0.3) = 418 \text{ LBS/BOLT (MAX)}
\]

SHEAR ($V$)

\[
V = \frac{287\#(10.18")}{2(18.75")} = 83 \text{ LBS/BOLT (MAX)}
\]

NOTE:

PROVIDE FLOOR STRUCTURE DESIGNED TO SUPPORT WEIGHTS AND FORCES SHOWN,
(BY ENGINEER OF RECORD FOR THE BUILDING)