SEISMIC ANCHORAGE

C.G. WT. = 274 LBS

33.94"

8.1"

0.48"

USE 8- 1/4" A307 BOLTS THRU FLOOR

FRONT ELEVATION

STRUT OR OTHER SUPPORTING MEMBER (BY ENGINEER OF RECORD)

SIDE ELEVATION

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

WEIGHT = 274 LBS

HORIZONTAL FORCE (V_H) = 0.94W = 262 LBS

VERTICAL FORCE (V_V) = 0.33(V_H) = 87 LBS

BOLT FORCES:

TENSION (T)

T_SIDE = \frac{262\#(33.94') - (274\# - 87\#)(8.1\text{"})}{2(19.25\text{")}} = 187 \text{ LBS/BOLT}

T_FRONT = \frac{262\#(33.94') - (274\# - 87\#)(9.12\text{")}}{2(18.75\text{")}} = 190 \text{ LBS/BOLT}

T = 190\# + 187\#(0.3) = 246 \text{ LBS/BOLT (MAX)}

SHEAR (V)

V = \frac{262\#(10.48\text{")}}{2(19.25\text{")}} = 71 \text{ LBS/BOLT (MAX)}

NOTE:

PROVIDE FLOOR STRUCTURE DESIGNED TO SUPPORT WEIGHTS AND FORCES SHOWN.

(By Engineer of Record for the Building)