SEISMIC ANCHORAGE

ENGINEER OF RECORD SHALL DESIGN THE BACKING PLATE (16 GA. MIN.) AND THE WALL STRUCTURE

C.G. W.T. = 185 LBS

USE T- 3/8" # A307 BOLTS TO BACKING PLATE

ACCESS HOLES PER MANUFACTURER

SIDE ELEVATION

PLAN AT WALL

T MAX = 103 LBS/BOLT
V MAX = 91 LBS/BOLT

LOADS: PER 2001 CALIFORNIA BUILDING CODE - SECTION 1632A (WORKING LOADS, NOT ULTIMATE)
WEIGHT = 185 LBS
HORIZONTAL FORCE (V H) = 0.94W = 174 LBS
VERTICAL FORCE (V V) = 0.33(V H) = 58 LBS

BOLT FORCES:
TENSION (T)

T = \frac{174\#(13.6\") + (185\# + 58\#)8.0\"}{3 \text{ BOLTS}(14.0\")} = 103 \text{ LBS/BOLT (MAX)}

SHEAR (V)

V = \frac{174\#(13.6\")}{3 \text{ BOLTS}(14.0\")} + \frac{185\# + 58\#}{1 \text{ BOLTS}} = 91 \text{ LBS/BOLT (MAX)}

NOTE:
PROVIDE WALL STRUCTURE DESIGNED TO SUPPORT WEIGHTS AND FORCES SHOWN.
(BY ENGINEER OF RECORD FOR THE BUILDING)