EASE EQUIPMENT ANCHORAGE & SEISMIC ENGINEERING
www.equipmentanchorage.com

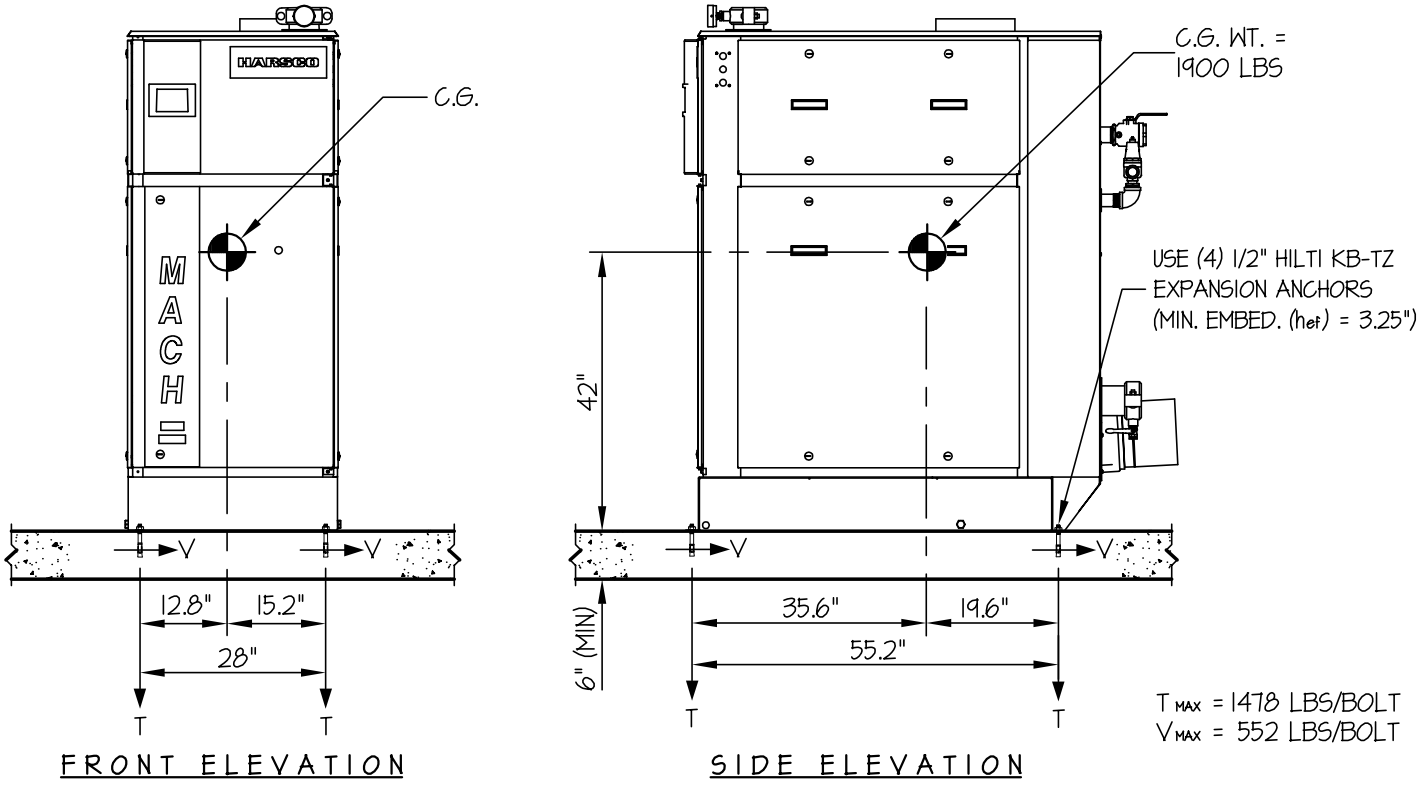
PATTERSON-KELLEY CO.

MACH MODEL C-4000

DES. J. ROBERSON
JOB NO. 11-1161
DATE 6/29/11
SHEET 1 OF 1 SHEET

SEISMIC ANCHORAGE

SLAB ON GRADE



LOADS: PER 2010 CALIFORNIA BUILDING CODE SECTION 1613A AND ASCE 7-05 SECTIONS 12 AND 13.
WEIGHT = 1900 LBS
HORIZONTAL FORCE (E_h) = $0.90W_p$ = 1710 LBS
VERTICAL FORCE (E_v) = $0.40W_p$ = 760 LBS

BOLT FORCES:

TENSION (T)

$$T_{MAXIMUM} = \left[\frac{1710\#(42'')(12.8'')}{1_{BOLT}(55.2'')(28'')} \times (0.3)\right] + \frac{1710\#(42'')(35.6'')}{1_{BOLT}(28'')(55.2'')} - \frac{(1900\#(0.9) - 760\#)(35.6'')(12.8'')}{1_{BOLT}(55.2'')(28'')} = 1553 \text{ LBS/BOLT (MAX)}$$

(HORIZ. - SIDE TO SIDE) (HORIZ. - FRONT TO BACK) (WEIGHT (0.9) - E_v)

SHEAR (V)

$$V_{MAXIMUM} = \frac{1710\#(35.6'')}{2_{BOLTS}(55.2'')} = 552 \text{ LBS/BOLT (MAX)}$$

NOTE:
ENGINEER OF RECORD SHALL PROVIDE DESIGN OF SUPPORT STRUCTURE TO SUPPORT WEIGHTS AND FORCES SHOWN.

REGISTERED PROFESSIONAL ENGINEER
JONATHAN ROBERSON
No. 4197
EXP. 6-30-2012
6/29/11
STRUCTURAL
STATE OF CALIFORNIA

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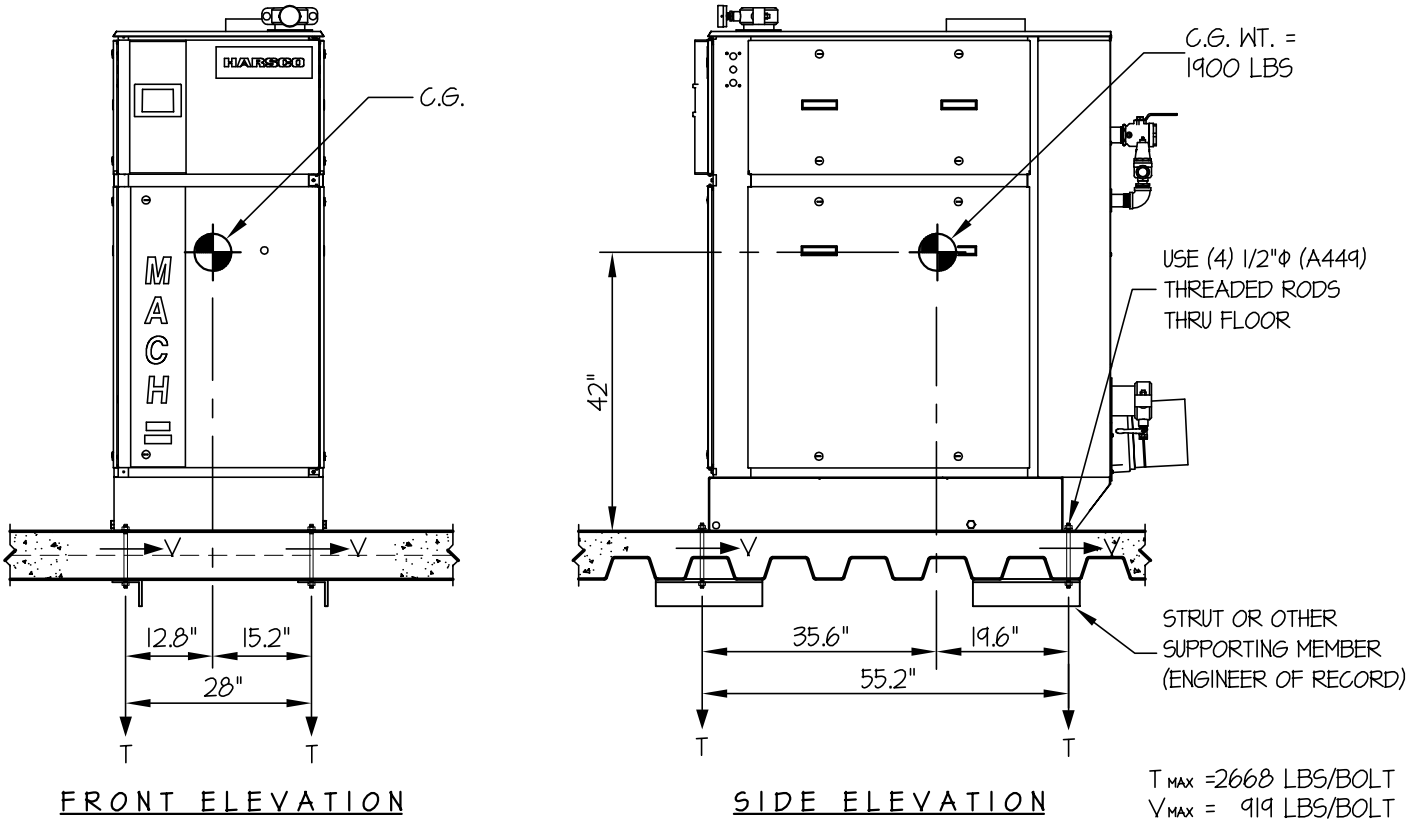
SHEET 1 OF 1 SHEET

SEISMIC ANCHORAGE — ELEVATED FLOOR



LOADS: PER 2010 CALIFORNIA BUILDING CODE SECTION 1613A AND ASCE 7-05 SECTIONS 12 AND 13.
WEIGHT = 1900 LBS
HORIZONTAL FORCE (E_h) = $1.50W_p$ = 2850 LBS
VERTICAL FORCE (E_v) = $0.40W_p$ = 760 LBS

BOLT FORCES:

TENSION (T)

$$T_{MAXIMUM} = \left[\frac{2850\#(42'')(12.8'')}{1_{BOLT}(55.2'')(28'')} \times (0.3)\right] + \frac{2850\#(42'')(35.6'')}{1_{BOLT}(28'')(55.2'')} - \frac{(1900\#(0.9) - 760\#)(35.6'')(12.8'')}{1_{BOLT}(55.2'')(28'')} = 2778 \text{ LBS/BOLT (MAX)}$$

(HORIZ. - SIDE TO SIDE) (HORIZ. - FRONT TO BACK) (WEIGHT (0.9) - E_v)

SHEAR (V)

$$V_{MAXIMUM} = \frac{2850\#(35.6'')}{2_{BOLTS}(55.2'')} = 919 \text{ LBS/BOLT (MAX)}$$

NOTE:
ENGINEER OF RECORD SHALL PROVIDE DESIGN OF SUPPORT STRUCTURE TO SUPPORT WEIGHTS AND FORCES SHOWN.

REGISTERED STRUCTURAL ENGINEER
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