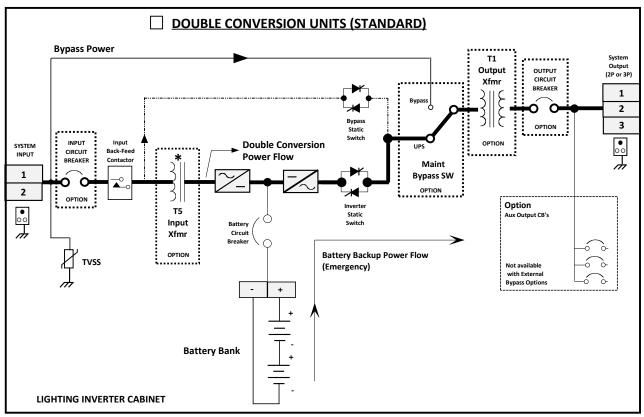
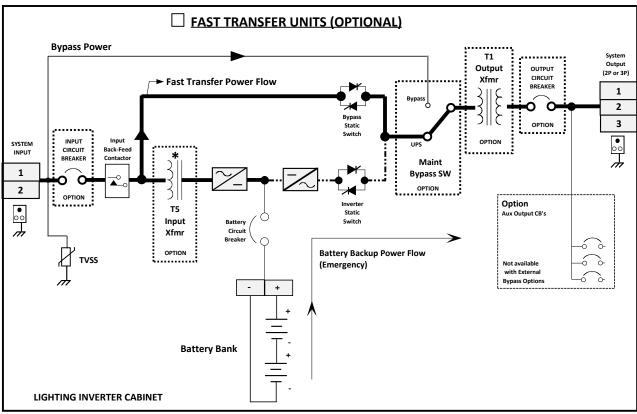
1 PHASE LIGHTING INVERTER TYPICAL SINGLE LINE DIAGRAM





NOTE(S):

- *Static Bypass and Manual Bypass: will be powered from the transformer for different input and output voltage configurations.
- 2. Dotted blocks are optional features

SUBJECT TO CHANGE WITHOUT NOTICE



TYPICAL 1-PH LIGHTING
INVERTER SINGLE LINE DIAGRAM

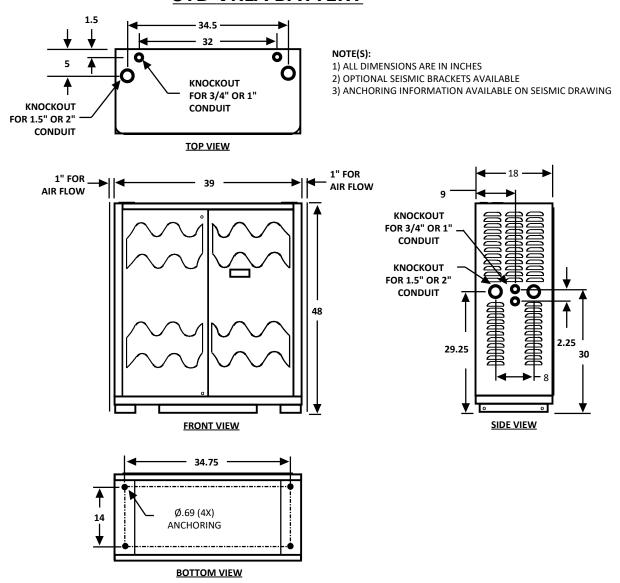
INDOOR & OUTDOOR UNITS

SHEET

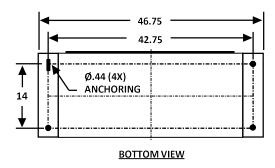
1 OF 1

				_
DRAWN : MT	12/01/22	710-TD-010	REVISION	
APPVD : SS	12/01/22		В	

2.1 KW TO 3 KW INVERTER WITH 90 MIN. BACKUP **STD VRLA BATTERY**



INSTALLATION WITH EXTERNAL SEISMIC BRACKETS FOR ZONE 4



SUBJECT TO CHANGE WITHOUT NOTICE

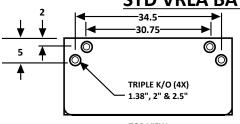


1-PH UPS, POWER RIDE 1

TECHNICAL DRAWINGS

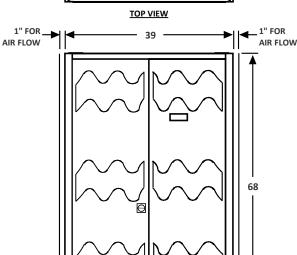
5, 6, & 8 KW INVERTER WITH 90 MIN. BACKUP

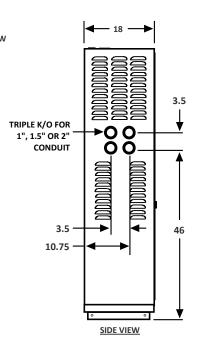
STD VRLA BATTERY 34.5

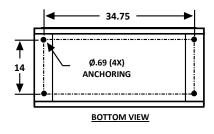


NOTE(S):

- 1) ALL DIMENSIONS ARE IN INCHES
- 2) OPTIONAL SEISMIC BRACKETS AVAILABLE
- 3) ANCHORING INFO AVAILABLE ON SEISMIC DRAWING

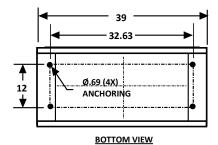






FRONT VIEW

INSTALLATION WITH INTEGRATED SEISMIC MOUNTING FOR ZONE 4



NOTE(S)

ANCHORS FOR INTEGRATED SEISMIC MOUNTING:

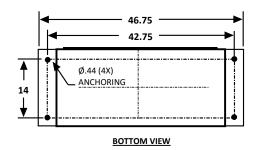
- 1. USE 5/8"DIA x 3-3/4" MIN. EMBED. HILTI KB-TZ ANCHORS,ICC ESR-1917 (LARR«25701) OR APPROVED EQUAL (4) TOTAL PER CABINET, (2) PER ANCHOR BRACKET
- 2. CONCRETE 5" THICK x 2,500 PSI (MIN. REQ'D). 3. SOIL BEARING PRESSURE 500 PSF (MIN. REO'D)

FOR ALL DETAILS REFER TO SEISMIC DWG. FOR EACH CABINET MOUNTING

SUBJECT TO CHANGE WITHOUT NOTICE

PERFECT

INSTALLATION WITH EXTERNAL SEISMIC BRACKETS FOR ZONE 4



NOTE(S):

ANCHORS FOR EXTERNAL SEISMIC BRACKET:

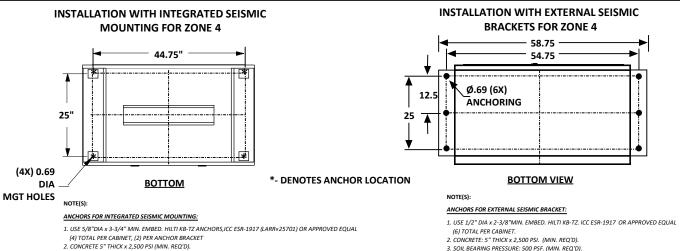
- 1. USE 1/2" DIA x 3-1/2"MIN. EMBED. HILTI KB-TZ. ICC ESR-1917 (LARR«25701) OR APPROVED EQUAL (4) TOTAL PER CABINET.
- 2. CONCRETE: 5" THICK x 2,500 PSI. (MIN. REQ'D).
- 3. SOIL BEARING PRESSURE: 500 PSF. (MIN. REO'D).

FOR ALL DETAILS REFER TO SEISMIC DWG. FOR EACH CABINET MOUNTING

DRAWN : MT	12/01/22	710-TD-012	REVISION	SHEET
APPVD : SS	12/01/22	710 10 012	Α	1 OF 1

1-PH UPS, POWER RIDE 1 **TECHNICAL DRAWINGS**

10 KW TO 17 KW INVERTER WITH 90 MIN. BACKUP STANDARD VRLA BATTERY 39 TRIPLE K/O NOTE(S): 1", 1.5" OR 2 1) ALL DIMENSIONS ARE IN INCHES CONDUIT 2) OPTIONAL SEISMIC BRACKETS AVAILABLE 3) ANCHORING INFO AVAILABLE ON SEISMIC DRAWING **AIR EXHAUST** TOP VIEW 30.5 1" FOR 1" FOR _ AIR 13.25 AIR FLOW **AIR FLOW** INTAKE TRIPLE K/O 1", 1.5" OR 2" CONDUIT ÒÓ 70 54.5 \equiv **LEFT VIEW FRONT VIEW RIGHT VIEW** 44.75 Ø.69 (4X) ANCHORING 25 **BOTTOM VIEW INSTALLATION WITH EXTERNAL SEISMIC** INSTALLATION WITH INTEGRATED SEISMIC



FOR ALL DETAILS REFER TO SEISMIC DWG. FOR EACH CABINET MOUNTING

SUBJECT TO CHANGE WITHOUT NOTICE

PERFECT

3. SOIL BEARING PRESSURE 500 PSF (MIN. REQ'D)

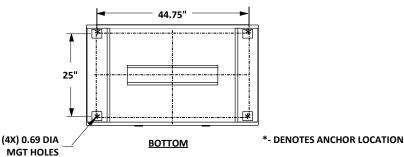
1-PH UPS, POWER RIDE 1 **TECHNICAL DRAWINGS**

DRAWN : MT 12/01/22 REVISION SHEET 710-TD-013 1 OF 1 12/01/22 APPVD : SS

FOR ALL DETAILS REFER TO SEISMIC DWG. FOR EACH CABINET MOUNTING

3. SOIL BEARING PRESSURE: 500 PSF. (MIN. REQ'D)

2.1 KW TO 17 KW INVERTER WITH 90 MIN. BACKUP **LONG LIFE BATTERY** 39 TRIPLE K/O 1", 1.5" OR 2' CONDUIT **AIR EXHAUST TOP VIEW** 1" FOR 1" FOR _ AIR 13.25 **AIR FLOW AIR FLOW** INTAKE 51 TRIPLE K/O 1", 1.5" OR 2' CONDUIT 70 54.5 暠 暠 **LEFT VIEW** FRONT VIEW **RIGHT VIEW** 44.75 NOTE(S): 1) ALL DIMENSIONS ARE IN INCHES Ø.69 (4X) 2) OPTIONAL SEISMIC BRACKETS AVAILABLE ANCHORING 25 3) ANCHORING INFO AVAILABLE ON SEISMIC DRAWING 4) LONG-LIFE BATTERY OPTION: 14KW THRU 17KW HAS 2 CABINETS: ONE FOR ELECTRONICS/INVERTER AND ONE FOR BATTERIES **BOTTOM VIEW INSTALLATION WITH EXTERNAL SEISMIC** INSTALLATION WITH INTEGRATED SEISMIC **MOUNTING FOR ZONE 4 BRACKETS FOR ZONE 4** 58.75 44.75" 54.75 Ø.69 (6X)



ANCHORS FOR INTEGRATED SEISMIC MOUNTING:

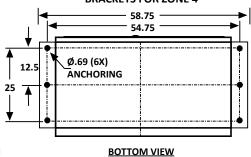
- 1. USE 5/8"DIA x 3-3/4" MIN. EMBED. HILTI KB-TZ ANCHORS,ICC ESR-1917 (LARR«25701) OR APPROVED EQUAL
- (4) TOTAL PER CABINET, (2) PER ANCHOR BRACKET
 2. CONCRETE 5" THICK x 2,500 PSI (MIN. REQ'D).
- 3. SOIL BEARING PRESSURE 500 PSF (MIN. REQ'D)

FOR ALL DETAILS REFER TO SEISMIC DWG. FOR EACH CABINET MOUNTING

SUBJECT TO CHANGE WITHOUT NOTICE



1-PH UPS, POWER RIDE 1 **TECHNICAL DRAWINGS**



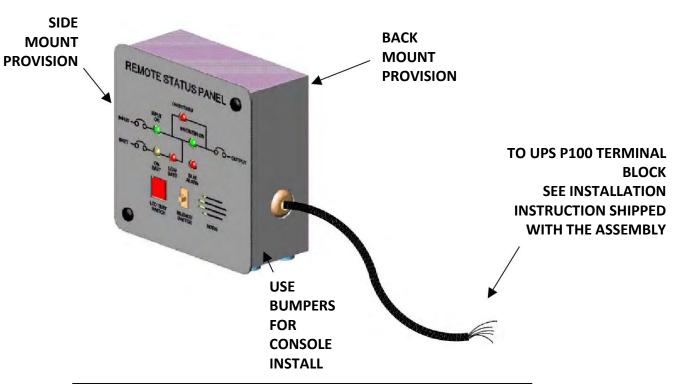
ANCHORS FOR EXTERNAL SEISMIC BRACKET:

- 1. USE 1/2" DIA x 2-3/8"MIN. EMBED. HILTI KB-TZ. ICC ESR-1917 OR APPROVED EQUAL (6) TOTAL PER CABINET.
 2. CONCRETE: 5" THICK x 2,500 PSI. (MIN. REQ'D).
- 3. SOIL BEARING PRESSURE: 500 PSF. (MIN. REQ'D).

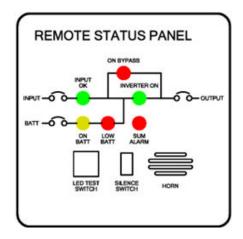
FOR ALL DETAILS REFER TO SEISMIC DWG. FOR EACH CABINET MOUNTING

DRAWN : MT	12/01/22	710-TD-014	REVISION	SHEET
APPVD : SS	12/01/22	710 10 014	Α	1 OF 1

REMOTE STATUS PANEL



Remote Status Panel displays the following:				
INPUT OK:	Input power is within acceptable range			
INVERTER ON:	Inverter is on			
ON BYPASS:	Unit is on Bypass Mode			
ON BATT:	Unit is running from Battery			
LOW BATT:	Battery voltage is at low voltage before shutdown			
SUM ALARM:	Unit is on critical alarm such as: Over temperature, DC OV/UV			
HORN:	Audible warning for alarm condition			
SILENCE WATCH:	Silences the audible warning			
LED TEST:	Tests the LED's by push in			

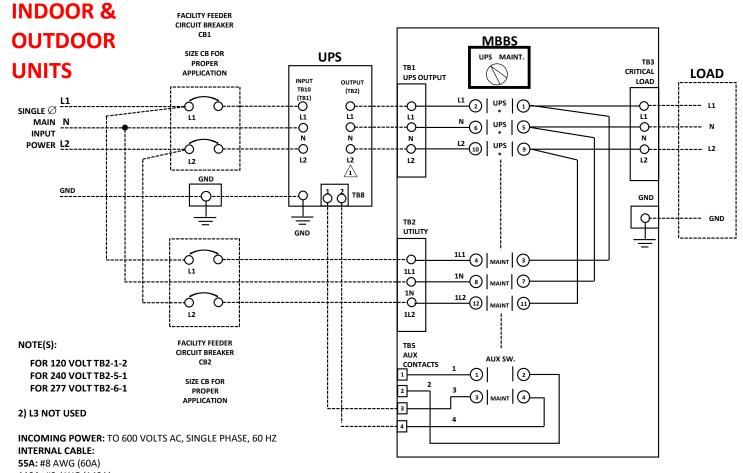


SUBJECT TO CHANGE WITHOUT NOTICE



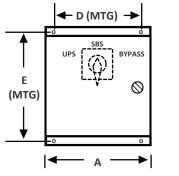
DRAWN : MT	12/01/22	
APPVD : SS	12/01/22	

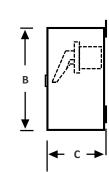
SINGLE-PHASE "MAKE BEFORE BREAK" **EXTERNAL WRAP AROUND BY-PASS SWITCH**



110A: #2 AWG (140A)

TERMINALS ARE SIZED FOR PROPER APPLICATION





SWITCH DIMENSIONS

3000-046	175 AMPS	20	20	12	18.5	18.5
3000-045	110 AMPS	14	16	10	12	16.75
3000-044	55 AMPS	14	16	6	12	16.75
PART NUMBER	RATING	DIM A	DIM B	DIM C	DIM D (MTG)	DIM E (MTG)

SELECTION CHART FOR SINGLE PHASE UPS

KVA 3	KVA 5	KVA 7.5	KVA 10	KVA 15	KVA 20	FOR WIRING DIAGRAM SEE DWG
3000-044	3000-044	3000-044	3000-045	3000-045	3000-045	6001-032-11-S

NOTE(S):

- 1) SWITCH CONTACTS ARE SINGLE PHASE L-NEUTRAL "MAKE BEFORE-BREAK".
- 2) CONTACTS MARKED "UPS" ARE CLOSED IN THE "UPS" POSITION.
- 3) CONTACTS MARKED "BYPASS" ARE CLOSED IN THE "BYPASS" POSITION.
- 4) CONTACTS MARKED "SBS" ARE CLOSED IN THE "SBS" POSITION.
- 5) WRAP AROUND BY-PASS SWITCH SHOULD BE USED WITH SAME INPUT/OUTPUT VOLTAGE
- 6) WRAP AROUND BY-PASS SWITCH CAN ONLY BE USED WITHOUT ANY BUILT IN SECONDARY DISTRIBUTION CIRCUIT BREAKER IN UPS.

SUBJECT TO CHANGE WITHOUT NOTICE

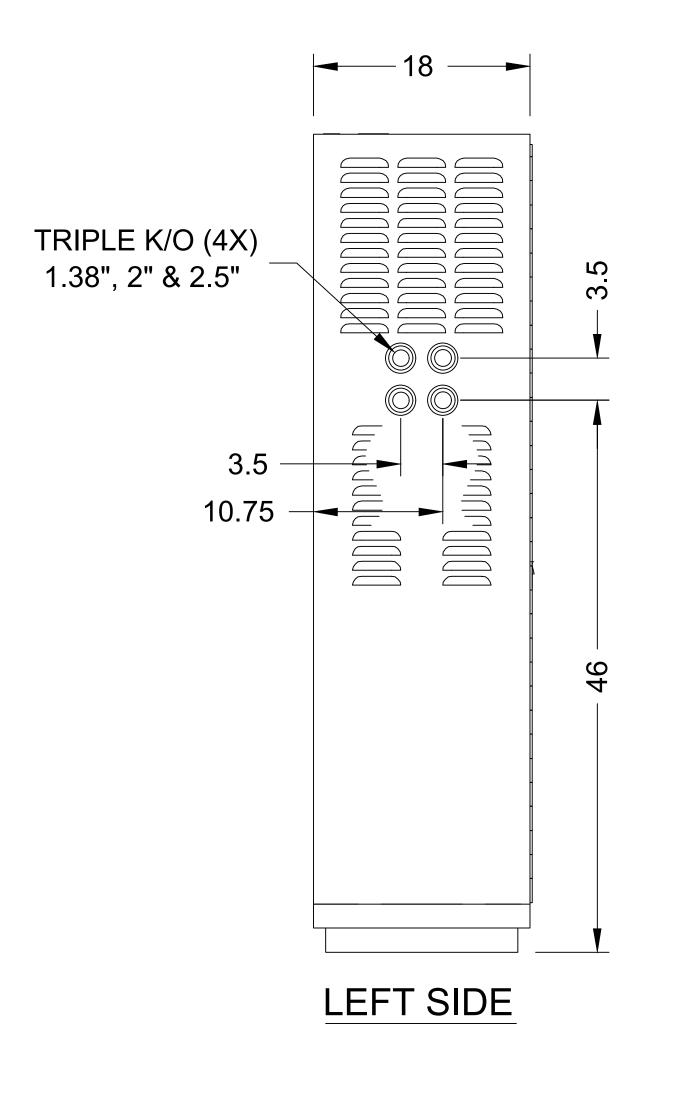


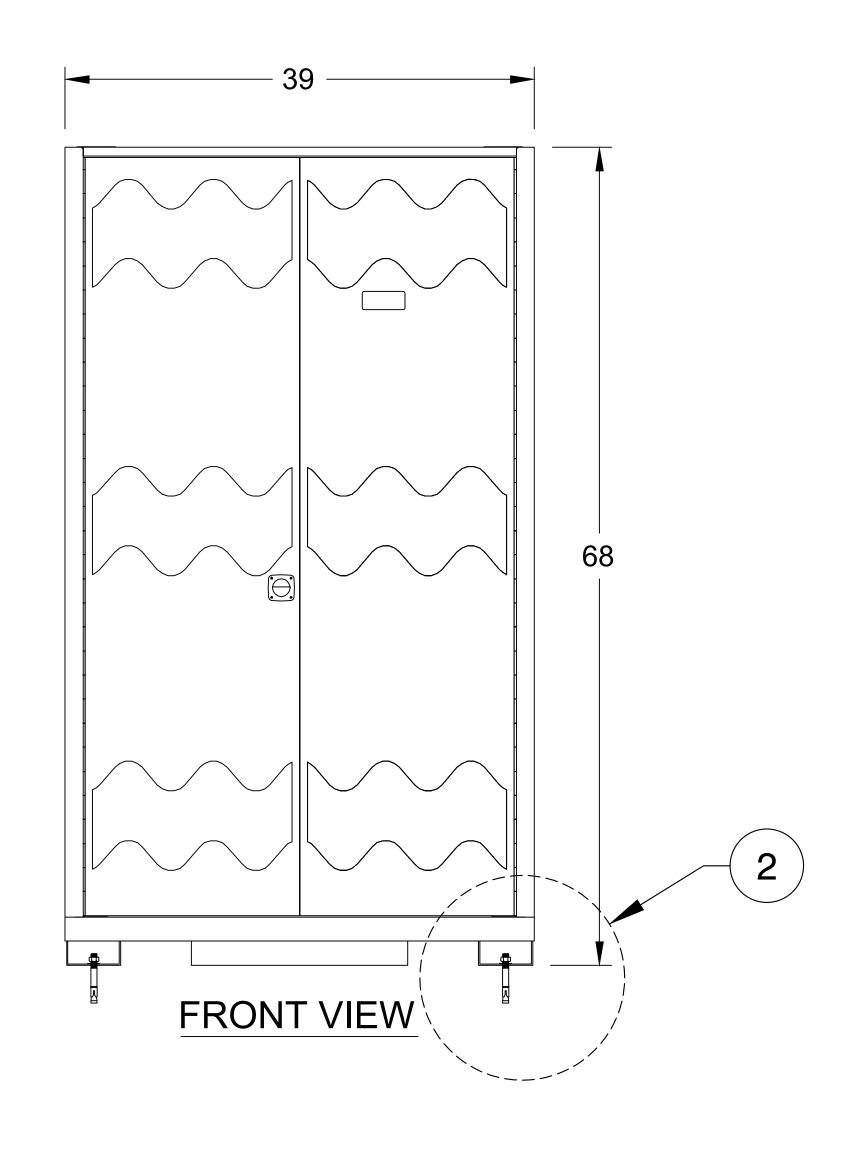
1-PH UPS, POWER RIDE 1 **TECHNICAL DRAWINGS**

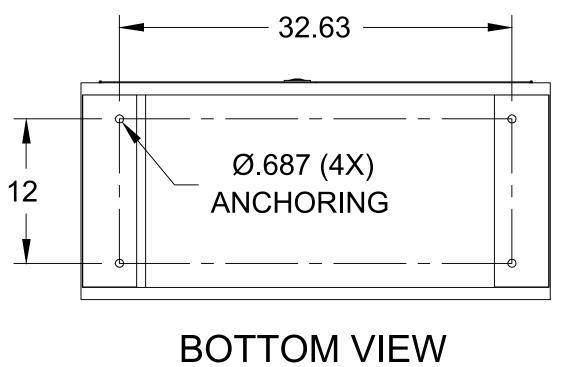
DRAWN : MT	12/01/22	710-TD-015	REVISION	Ī
APPVD : SS	12/01/22	/ 10 1D-013	Α	l

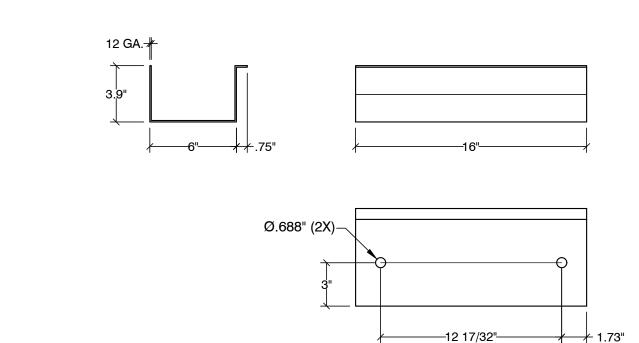
SHFFT

1 OF 1

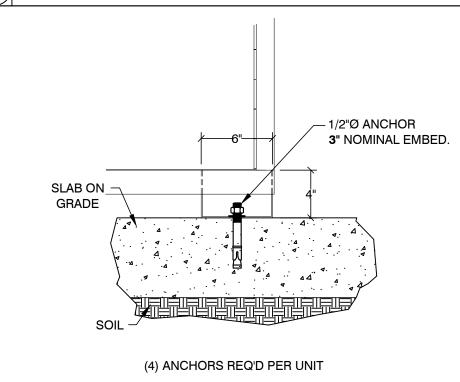








ANCHOR BRACKET DETAIL



1. DESIGNED PER THE 2021 IBC / 2022 CBC / 2023 LABC, Fa = 1.2 & Ss = 1.82 2. STORAGE CAPACITY: 2,150# MAX. WEIGHT.

3. ANCHORS: HILTI KWIK BOLT TZ 2, ICC #ESR-4266 W/ LABC SUPPLEMENT

4. CONCRETE: 5" THICK x 2,500 PSI. 5. SOIL BEARING PRESSURE: **500** PSF. (MIN. REQ'D). 6. EVALUATION BASED ON NORTHRIDGE LOCATION

(ONE OF THE HIGHEST LA FAULT AREAS) WITH THE FOLLOWING CALCULATION AS A TYPICAL EXAMPLE (ASSUMED GROUND FLOOR INSTALLATION)

(2) ANCHOR DETAIL

ANALYSIS BASED ON SECTION 13.3 OF THE ASCE 7-16 SPECIFICATION REFERENCED IN CHAPTER 16 OF THE 2021 IBC/2022 CBC/2023 LABC

Fp (13.3-1)= $0.4 \times ap \times S_{DS} \times Wp/[Rp/Ip]$ Fp (13.3-2)= $1.6 \times S_{DS} \times Ip \times Wp$ 2.336 x Wp SHALL NOT BE GREATER THAN Fp (13.3-3)= $0.3 \times S_{DS} \times Ip \times Wp$ 0.438 x Wp SHALL NOT BE LESS THAN

> SITE CLASS = D Fa = **1.2** Ss = 1.82 $S_{DS} = 1.46$

lp = 1.00Rp = 2.5ASCE 7-16 Table 13.5-1 ASCE 7-16 Table 13.5-1

Wp = **2150 LB**

0.7Fp = 0.7*0.438*Wp= 0.31*2150 LB = 659 LB

OVERTURNING ANALYSIS:

CABINET HEIGHT, Ht = 68.0 IN ANCHORS SPACING, D = 12.0 IN

> Mot = Vtotal*(1/2 Ht)= 659 LB * 68 IN * 1/2 = 22,412 IN-LB

Mst = Wp*D/2= 2150 LB * 12 IN/2 = 12,900 IN-LB

Puplift = (Mot - 0.6*Mst)/D= (22412 IN-LB - 0.6 * 12900 IN-LB)/12 IN = 1223 LB <= UPLIFT

ANCHORS
ALLOWABLE CAPACITY PER ICC REPORT AND ACI 318-19 CHAPTER 17 PULLOUT: 1170 LB SHEAR: 2390 LB

> COMBINED STRESS = (1223 LB/2340 LB) + (659 LB/9560 LB) = 0.59

USE 1/2"Ø x 3"MIN. EMBED. HILTI KB-TZ2 (ICC ESR-4266) OR APPROVED EQUAL (4) PER CABINET, (2) PER ANCHOR BRACKET

SEIZMIC EST. 1985 SEIZMIC ENGINEERING, INC. 1130 E. Cypress St. Covina, California 91724 Tel.(909)869-0989

DRAWN BY: M.V. / T.C. LAST REV. BY: REV. DATE: SCALE:

APRV'D BY: SAL E. FATEEN

CABINET

DETAILS

DRAWING NUMBER: 23-0067-A

CABINET ELEVATIONS

CALCULATIONS

