

**DEGENKOLB ENGINEERS** 

300 South Grand Ave. #1115, Los Angeles, CA 90071

(213) 596-5000 (phone) (213) 596-5000 (phone) www.degenkolb.com Sheet 1 of 20

# Office Of Statewide Health Planning And Development ANCHORAGE PRE-APPROVAL

OPA - 2343 - 07

PRODUCT MANUFACTURER: PETER PEPPER PRODUCTS
PRODUCT NAME/TYPE/MODEL: INFECTION CONTROL CENTER [ICX-1, ICX-2, ICX-1M, ICX-2M, ICP-1M, ICP-2M, ICP-2]

#### **GENERAL NOTES:**

 FORCES ARE DETERMINED PER 2007 CALIFORNIA BUILDING CODE SECTION 1613A AND ASCE 7-05 SECTIONS 11, 12 AND 13 USING THE FOLLOWING EQUATION (EQ. 13.3-2):

Fp = 1.6 SDs Ip Wp = 4.62 WpFv = 0.2 SDs Wp = 0.39 Wp WHERE,

SDs = 2/3 Fa Ss = 1.927g (EQ. 11.4-3)

lp 1.50

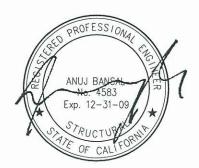
Fa 1.00

Ss 2.89 g

Wp MAXIMUM OPERATING WEIGHT

NOTE THAT THE FORCE LEVEL IS FOR STRENGTH DESIGN

- 2. THIS PRE-APPROVAL CONFORMS TO THE 2007 CALIFORNIA BUILDING CODE.
- 3. THE DETAILS IN THIS PRE-APPROVAL MAY BE USED AT ANY LOCATION IN THE STATE OF CALIFORNIA.
- 4. THE DETAILS MAY BE USED FOR ANY LEVEL OF THE BUILDING WHERE THE ABOVE STATED PRODUCT IS LOCATED.







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# Office Of Statewide Health Planning And Development ANCHORAGE PRE-APPROVAL

OPA - 2343 - 07

PRODUCT MANUFACTURER: PETER PEPPER PRODUCTS

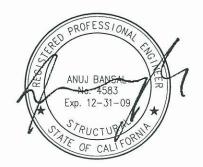
PRODUCT NAME/TYPE/MODEL: INFECTION CONTROL CENTER [ICX-1, ICX-2, ICX-1M, ICX-2M, ICP-1M, ICP-2M, ICP-2]

#### **GENERAL NOTES (CONT'D):**

- 5. ALL LOADS SHOWN ON THE CALCULATIONS ARE BASED ON STRENGTH DESIGN.
- 6. THIS UNIT DOES NOT REQUIRE SEISMIC CERTIFICATION.
- 7. TYPICAL DIMENSIONAL TOLERANCE IS  $\pm \frac{1}{4}$ ".

#### RESPONSIBILITIES OF THE STRUCTURAL ENGINEER OF RECORD:

- 1. VERIFY THAT THE ANCHORS ARE AN ADEQUATE DISTANCE FROM ANY NEW OR EXISTING ANCHORS.
- VERIFY THAT THE ANCHORS ARE AN ADEQUATE DISTANCE FROM ANY WALL OPENINGS.
- 3. VERIFY THE INSTALLATION IS IN CONFORMANCE WITH THE 2007 CBC AND WITH THE DETAILS SHOWN IN THIS PRE-APPROVAL. VERIFY THAT THE EQUIPMENT'S ACTUAL WEIGHT, CG LOCATION, ANCHOR LOCATIONS, ANCHOR DETAILS AND THE MATERIAL AND GAGE OF THE UNIT WHERE ATTACHMENTS ARE MADE AGREE WITH THE INFORMATION SHOWN IN THIS PRE-APPROVAL.
- 4. DESIGN ANY SUPPLEMENTARY MEMBERS AND THEIR ATTACHMENTS TO WHICH THE UNIT IS ANCHORED OR MAKE ADJUSTMENTS AS NECESSARY.
- VERIFY THE ADEQUACY OF ANY EXISTING MEMBERS AND THEIR ATTACHMENTS TO WHICH THE UNIT IS ANCHORED, FOR THE FORCES EXERTED ON THEM BY THE UNIT IN ADDITION TO ALL OTHER LOADS AND FORCES.
- 6. VERIFY THAT THE CONCRETE WALL/CMU WALL WHICH THE UNIT IS ATTACHED TO IS NOT CRACKED







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# Office Of Statewide Health Planning And Development ANCHORAGE PRE-APPROVAL

OPA - 2343 - 07

PRODUCT MANUFACTURER: PETER PEPPER PRODUCTS
PRODUCT NAME/TYPE/MODEL: INFECTION CONTROL CENTER [ICX-1, ICX-2, ICX-1M, ICX-2M, ICP-1M, ICP-2M, ICP-2]

#### MATERIAL SPECIFIC NOTES FOR SUPPORTING STRUCTURAL MEMBERS:

LIGHT GAGE METAL:

MINIMUM GAGE: 20 GA.

MINIMUM YIELD STRENGTH (fy) = 33 KSI

WOOD:

MINIMUM GRADE: DOUGLAS FIR NO.3 OR BETTER MINIMUM SPECIFIC GRAVITY (G) = 0.46

CONCRETE:

MINIMUM UNIT WEIGHT = 110 pcf (LIGHT WEIGHT CONCRETE)
MINIMUM UNIT WEIGHT = 145 pcf (NORMAL WEIGHT CONCRETE)
MINIMUM COMPRESSIVE STRENGTH (fc) = 2500 PSI

4. MASONRY:

MINIMUM COMPRESSIVE STRENGTH (fm) = 1500 PSI

- 5. SEE 2007 CALIFORNIA BUILDING CODE FOR MORE INFORMATION AND OTHER REQUIREMENTS..
- 6. IF THE WOOD MATERIAL USED HAS A LOWER QUALITY THAN WHAT IS SPECIFIED ABOVE, SEOR SHALL EVALUATE THE BACKING SUPPORT DESIGN.







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### PETER PEPPER PRODUCTS

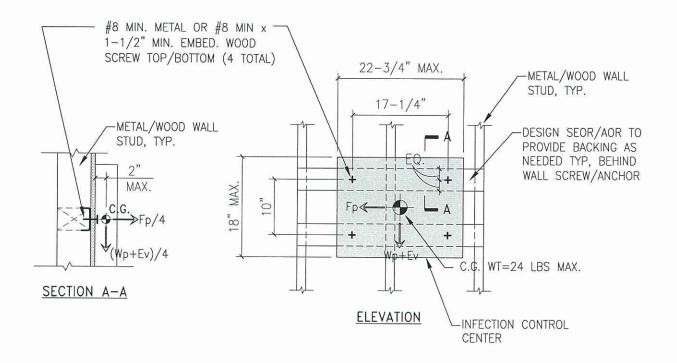
INFECTION CONTROL CENTER
ICX-1, ICX-2, ICX-1M, ICX-2M, ICP-1M, ICP-2M, ICP-2

Designed By TY

Project # A8621021.00

Date 09/09/2009

ICX-1 (METAL/WOOD STUDWALL ATTACHMENT)



CASE 1: EQ FORCE	PERPEND. TO WALL
TENSION = 49.9 LBS	SHEAR = 15.1 LBS
CASE 2: EQ FORCE	PARALLEL TO WALL
TENSION = 16.1 LBS	SHEAR = 46.4 LBS







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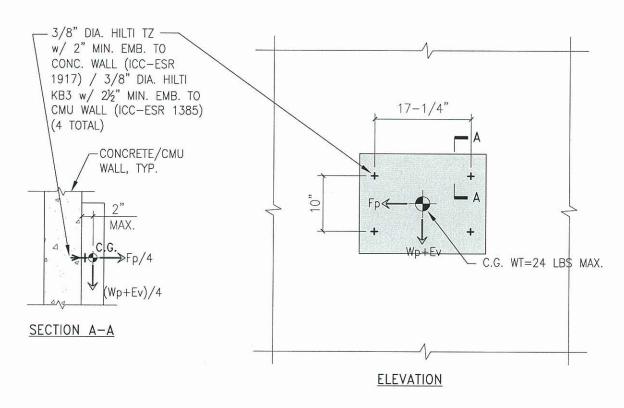
Sheet 5 of 20

#### PETER PEPPER PRODUCTS

INFECTION CONTROL CENTER ICX-1, ICX-2, ICX-1M, ICX-2M, ICP-1M, ICP-2M, ICP-2

Designed By	TY	5
Project #	A8621021.00	
Date	09/09/2009	

ICX-1 (CONCRETE/CMU WALL ATTACHMENT)



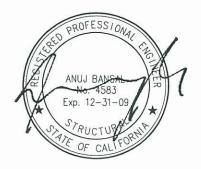
#### MAXIMUM DEMANDS AT WALL ANCHORS

CASE 1: EQ FORCE	PERPEND.	TO WALL
TENSION = 64.9 LBS	SHEAR =	19.6 LBS

CASE 2: EQ FORCE PARALLEL TO WALL
TENSION = 21.1 LBS SHEAR = 60.3 LBS

NOTES:

1. SEE PAGE 4 FOR INFO NOT SHOWN





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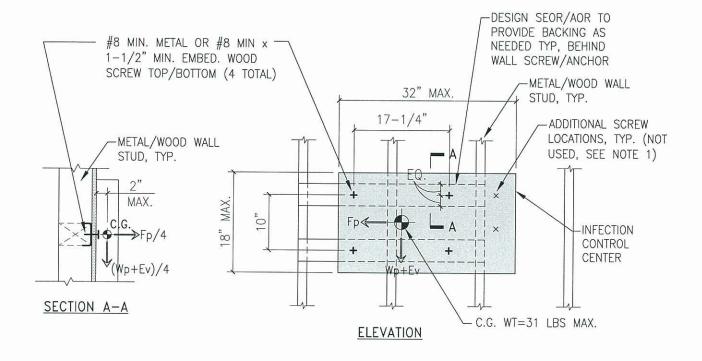
300 S. Grand Ave. #1115, Los Angeles, CA 90071 (213) 596-5000 - (213) 596-5960 Sheet 6 of 20

#### PETER PEPPER PRODUCTS

INFECTION CONTROL CENTER
ICX-1, ICX-2, ICX-1M, ICX-2M, ICP-1M, ICP-2M, ICP-2

Designed By	TY
Project #	A8621021.00
Date	09/09/2009

ICX-2 (METAL/WOOD STUDWALL ATTACHMENT)



#### NOTES:

 TO ACCOUNT FOR UNCERTAINTY OF OPERATING C.G. LOCATION, THE MAXIMUM DEMANDS SHOWN SHALL BE INCREASED BY 20% FOR DESIGNING BACKING STRUCTURAL MEMBERS.

CASE 1: EQ FORCE	PERPEND. TO WALL
TENSION = 49.9 LBS	SHEAR = 15.1 LBS
CASE 2: EQ FORCE	PARALLEL TO WALL
TENSION = 16.1 LBS	SHEAR = 46.4 LBS





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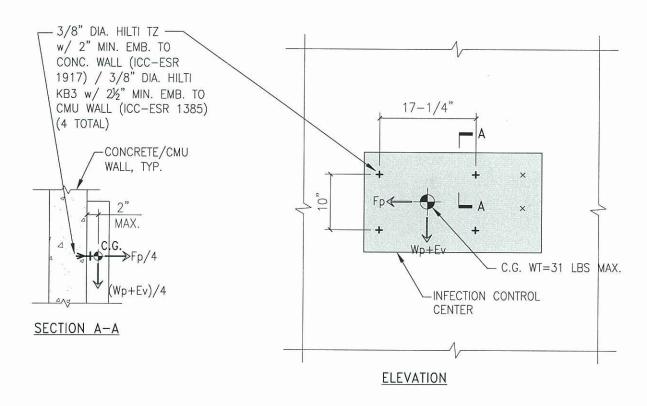
Sheet 7 of 20

#### PETER PEPPER PRODUCTS

INFECTION CONTROL CENTER
ICX-1, ICX-2, ICX-1M, ICX-2M, ICP-1M, ICP-2M, ICP-2

Designed By	TY
Project #	A8621021.00
Date	09/09/2009

ICX-2 (CONCRETE/CMU WALL ATTACHMENT)



#### NOTES:

1. SEE PAGE 6 FOR INFO NOT SHOWN

2. SEE NOTE 1 ON PAGE 6

#### MAXIMUM DEMANDS AT WALL ANCHORS

CASE 1: EQ FORCE	PERPEND. TO WALL
TENSION = 64.9 LBS	SHEAR = 19.6 LBS
CASE 2. FO FORCE	DADALLEL TO WALL

CASE 2: EQ FORCE PARALLEL TO WALL

TENSION = 21.1 LBS SHEAR = 60.3 LBS

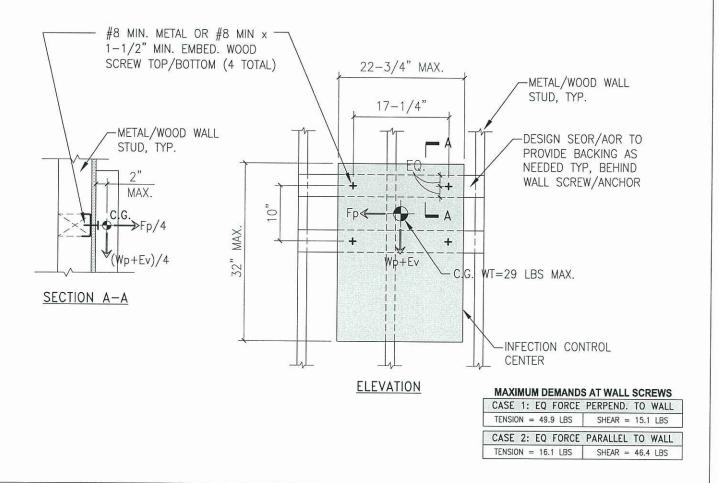




# Degenkolb Engineers 300 S. Grand Ave. #1115, Los Angeles, CA 90071 (213) 596-5000 - (213) 596-5960 PETER PEPPER PRODUCTS INFECTION CONTROL CENTER Designed By TY Project # A8621021.00

ICX-1M (METAL/WOOD STUDWALL ATTACHMENT)

ICX-1, ICX-2, ICX-1M, ICX-2M, ICP-1M, ICP-2M, ICP-2





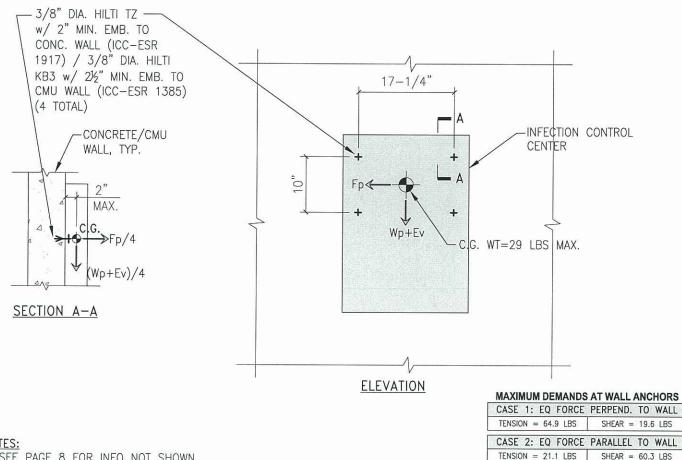


09/09/2009

Date

#### 

ICX-1M (CONCRETE/CMU WALL ATTACHMENT)



1. SEE PAGE 8 FOR INFO NOT SHOWN





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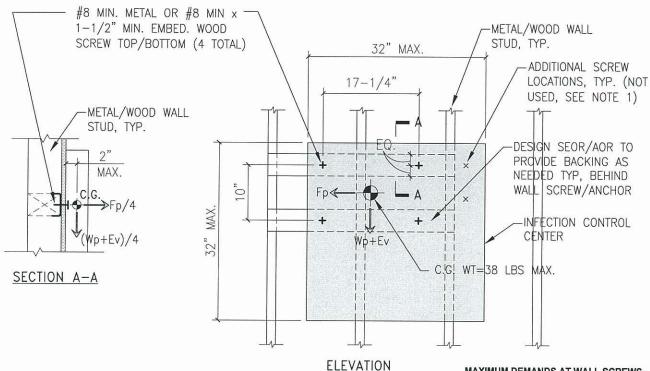
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#### PETER PEPPER PRODUCTS

INFECTION CONTROL CENTER ICX-1, ICX-2, ICX-1M, ICX-2M, ICP-1M, ICP-2M, ICP-2

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Designed By	TY	10 of 20
Project #	A8621021.00	
Date	09/09/2009	

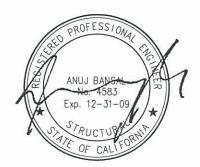
ICX-2M (METAL/WOOD STUDWALL ATTACHMENT)



1. TO ACCOUNT FOR UNCERTAINTY OF OPERATING C.G. LOCATION, THE MAXIMUM DEMANDS SHOWN SHALL BE INCREASED BY 20% FOR DESIGNING BACKING STRUCTURAL MEMBERS.

#### MAXIMUM DEMANDS AT WALL SCREWS

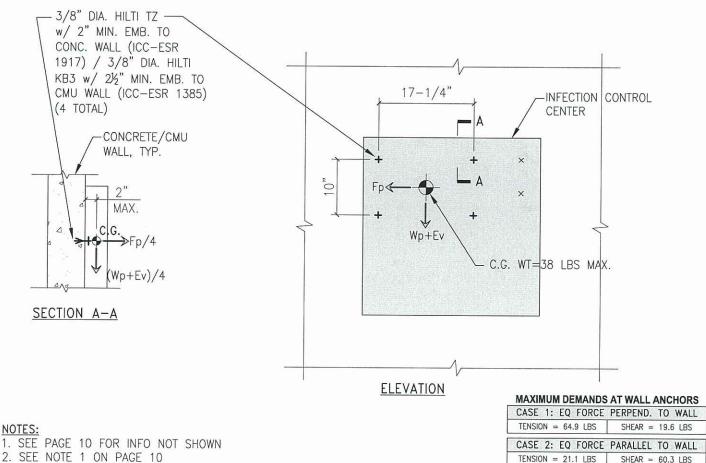
CASE 1: EQ FORCE PERPEND. TO WALL TENSION = 49.9 LBS SHEAR = 15.1 LBS CASE 2: EQ FORCE PARALLEL TO WALL TENSION = 16.1 LBS SHEAR = 46.4 LBS





#### Degenkolb Engineers <u>Degenkolb</u> Sheet 300 S. Grand Ave. #1115, Los Angeles, CA 90071 (213) 596-5000 - (213) 596-5960 Designed By TY PETER PEPPER PRODUCTS 11 of 20 Project # A8621021.00 INFECTION CONTROL CENTER ICX-1, ICX-2, ICX-1M, ICX-2M, ICP-1M, ICP-2M, ICP-2 09/09/2009 Date

ICX-2M (CONCRETE/CMU WALL ATTACHMENT)



2. SEE NOTE 1 ON PAGE 10

PROFESSIONAL ANUJ BANS 4583 Exp. 12-31-09



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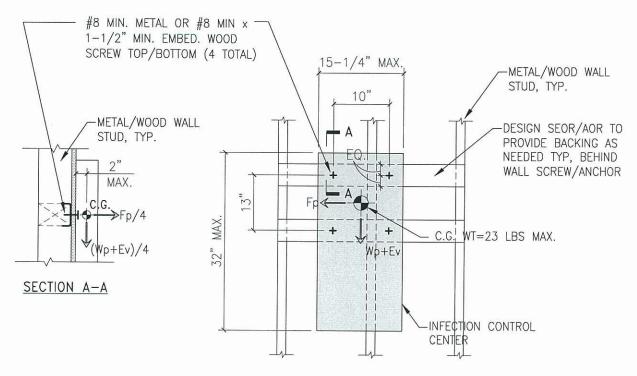
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Sheet

#### PETER PEPPER PRODUCTS

INFECTION CONTROL CENTER ICX-1, ICX-2, ICX-1M, ICX-2M, ICP-1M, ICP-2M, ICP-2 Designed By TY 12 of 20 Project # A8621021.00 Date 09/09/2009

ICP-1M (METAL/WOOD STUDWALL ATTACHMENT)

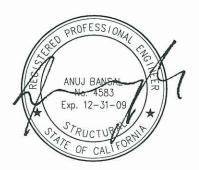


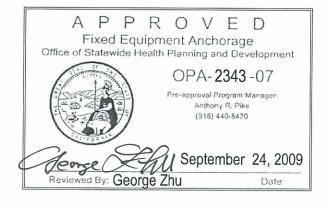
**ELEVATION** 

#### MAXIMUM DEMANDS AT WALL SCREWS

CASE 1: EQ FORCE	PERPEND. TO WALL
TENSION = 38.3 LBS	SHEAR = 11.9 LBS

CASE 2: EQ FORCE PARALLEL TO WALL TENSION = 17.5 LBS SHEAR = 36.6 LBS







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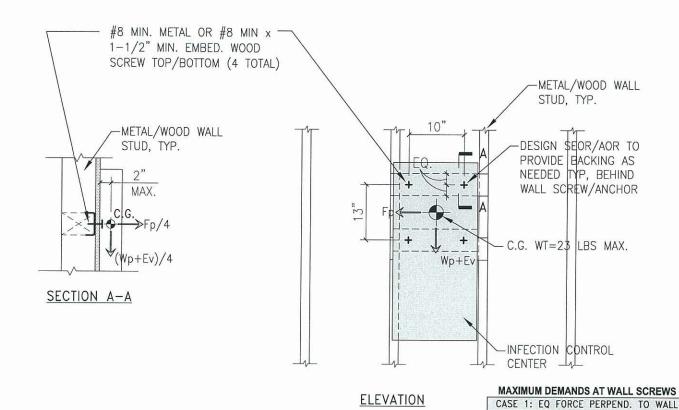
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#### PETER PEPPER PRODUCTS

INFECTION CONTROL CENTER ICX-1, ICX-2, ICX-1M, ICX-2M, ICP-1M, ICP-2M, ICP-2

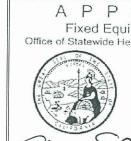
Designed By 13 of 20 Project # A8621021.00 Date 09/09/2009

ICP-1M (METAL/WOOD STUDWALL - ALTERNATE ATTACHMENT)



NOTES:

1. SEE PAGE 12 FOR INFO NOT SHOWN



PROVED

Fixed Equipment Anchorage Office of Statewide Health Planning and Development

> OPA-2343-07 Pre-approval Program Manager, Anthony R. Pike (916) 440-8470

TENSION = 38.3 LBS

TENSION = 17.5 LBS

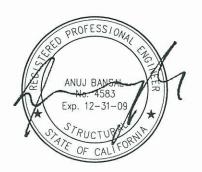
CASE 2: EQ FORCE PARALLEL TO WALL

SHEAR = 11.9 LBS

SHEAR = 36.6 LBS

September 24, 2009

Reviewed By: George Zhu



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### PETER PEPPER PRODUCTS

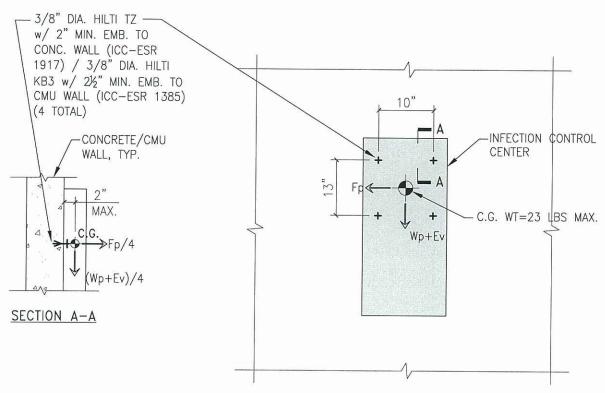
INFECTION CONTROL CENTER ICX-1, ICX-2, ICX-1M, ICX-2M, ICP-1M, ICP-2M, ICP-2

Designed By TY

Project # A8621021.00

Date 09/09/2009

ICP-1M (CONCRETE/CMU WALL ATTACHMENT)



<u>ELEVATION</u>

MAXIMUM DEMANDS AT WALL ANCHORS

CASE 1: EQ FORCE PERPEND. TO WALL
TENSION = 49.8 LBS SHEAR = 15.5 LBS

CASE 2: EQ FORCE PARALLEL TO WALL
TENSION = 22.8 LBS SHEAR = 47.6 LBS

NOTES:

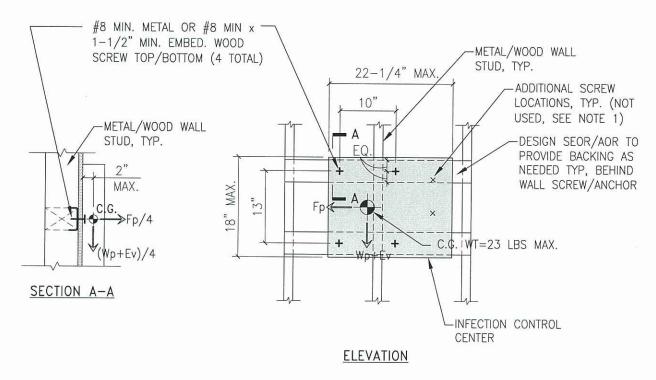
1. SEE PAGE 12 FOR INFO NOT SHOWN





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ICP-2 (METAL/WOOD STUDWALL ATTACHMENT)



#### NOTES:

 TO ACCOUNT FOR UNCERTAINTY OF OPERATING C.G. LOCATION, THE MAXIMUM DEMANDS SHOWN SHALL BE INCREASED BY 40% FOR DESIGNING BACKING STRUCTURAL MEMBERS.

CASE 1: EQ FORCE	PERPEND. TO WALL
TENSION = 38.3 LBS	SHEAR = 11.9 LBS
CASE 2: EQ FORCE	PARALLEL TO WALL
TENSION = 17.5 LBS	SHEAR = 36.6 LBS







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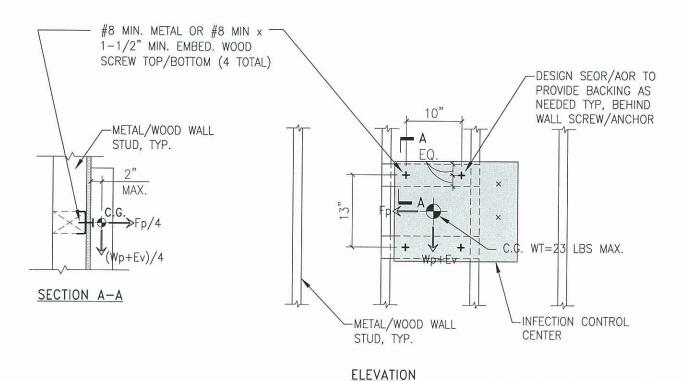
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#### PETER PEPPER PRODUCTS

INFECTION CONTROL CENTER
ICX-1, ICX-2, ICX-1M, ICX-2M, ICP-1M, ICP-2M, ICP-2

Designed By	TY	16 of 20
Project #	A8621021.00	
Date	09/09/2009	

ICP-2 (METAL/WOOD STUDWALL - ALTERNATE ATTACHMENT)



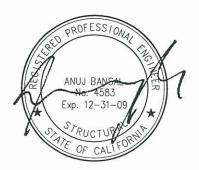
#### NOTES:

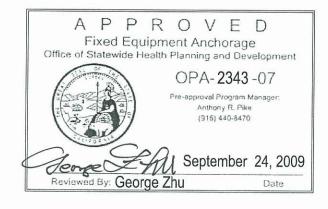
1. SEE PAGE 15 FOR INFO NOT SHOWN 2. SEE NOTE 1 ON PAGE 15

MAXIMUM DEMANDS AT WALL SCREWS

CASE 1: EQ FORCE PERPEND. TO WALL
TENSION = 38.3 LBS SHEAR = 11.9 LBS

CASE 2: EQ FORCE PARALLEL TO WALL
TENSION = 17.5 LBS SHEAR = 36.6 LBS





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Designed By TY 17 of 20

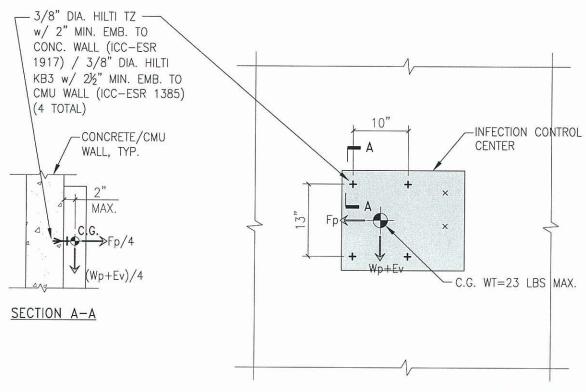
### PETER PEPPER PRODUCTS

INFECTION CONTROL CENTER ICX-1, ICX-2, ICX-1M, ICX-2M, ICP-1M, ICP-2M, ICP-2

Project # A8621021.00

Date 09/09/2009

ICP-2 (CONCRETE/CMU WALL ATTACHMENT)



#### **ELEVATION**

#### MAXIMUM DEMANDS AT WALL ANCHORS

CASE 1: EQ FORCE	PERPEND. TO WALL
TENSION = 49.8 LBS	SHEAR = 15.5 LBS

CASE 2: EQ FORCE PARALLEL TO WALL
TENSION = 22.8 LBS SHEAR = 47.6 LBS

#### NOTES:

1. SEE PAGE 15 FOR INFO NOT SHOWN

2. SEE NOTE 1 ON PAGE 15





# <u>Degenkolb</u>

### Degenkolb Engineers

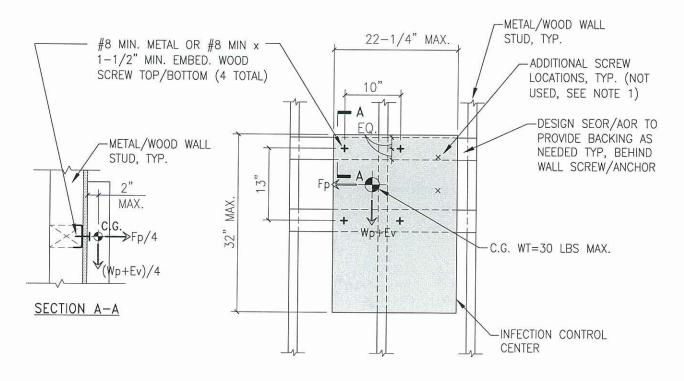
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Sheet

### PETER PEPPER PRODUCTS

INFECTION CONTROL CENTER ICX-1, ICX-2, ICX-1M, ICX-2M, ICP-1M, ICP-2M, ICP-2 Designed By TY 18 of 20 Project # A8621021.00 Date 09/09/2009

ICP-2M (METAL/WOOD STUDWALL ATTACHMENT)

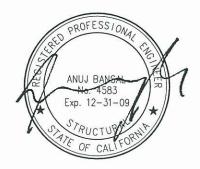


#### NOTES:

1. TO ACCOUNT FOR UNCERTAINTY OF OPERATING C.G. LOCATION, THE MAXIMUM DEMANDS SHOWN SHALL BE INCREASED BY 40% FOR DESIGNING BACKING STRUCTURAL MEMBERS.

#### **ELEVATION**

CASE 1: EQ FORCE	PERPEND. TO WALL
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300 S. Grand Ave. #1115, Los Angeles, CA 90071 (213) 596-5000 - (213) 596-5960

Sheet

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Designed By TY

A8621021.00

09/09/2009

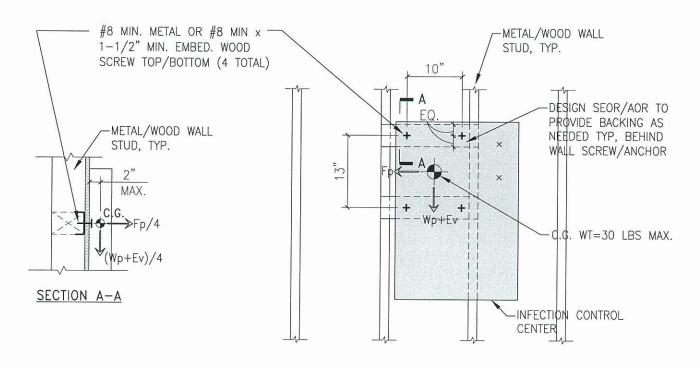
Project #

Date

#### PETER PEPPER PRODUCTS

INFECTION CONTROL CENTER ICX-1, ICX-2, ICX-1M, ICX-2M, ICP-1M, ICP-2M, ICP-2

ICP-2M (METAL/WOOD STUDWALL - ALTERNATE ATTACHMENT)



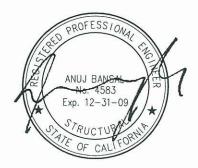
#### **ELEVATION**

#### MAXIMUM DEMANDS AT WALL SCREWS

IN DUMENT PERMITTING ALL TIMEE COIL		OTTI TITLE CONETIO
1	CASE 1: EQ FORCE	PERPEND. TO WALL
	TENSION = $38.3$ LBS	SHEAR = 11.9 LBS
	CASE 2: EQ FORCE	PARALLEL TO WALL
	TENSION = 17.5 LBS	SHEAR = 36.6 LBS

#### NOTES:

1. SEE PAGE 18 FOR INFO NOT SHOWN 2. SEE NOTE 1 ON PAGE 18







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#### PETER PEPPER PRODUCTS

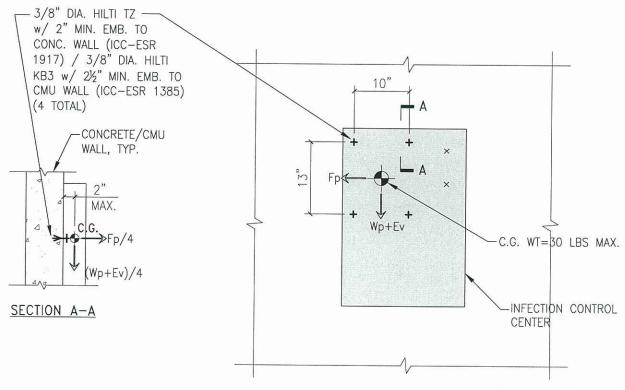
INFECTION CONTROL CENTER
ICX-1, ICX-2, ICX-1M, ICX-2M, ICP-1M, ICP-2M, ICP-2

Designed By TY

Project # A8621021.00

Date 09/09/2009

ICP-2M (CONCRETE/CMU WALL ATTACHMENT)



**ELEVATION** 

#### MAXIMUM DEMANDS AT WALL ANCHORS

CASE 1: EQ FORCE PERPEND. TO WALL
TENSION = 49.8 LBS SHEAR = 15.5 LBS

CASE 2: EQ FORCE PARALLEL TO WALL
TENSION = 22.8 LBS SHEAR = 47.6 LBS

#### NOTES:

1. SEE PAGE 18 FOR INFO NOT SHOWN

2. SEE NOTE 1 ON PAGE 18

