



DEGENKOLB ENGINEERS

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

(213) 596-5000 (phone)

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www.degenkolb.com

Sheet

1 of 12

Office Of Statewide Health Planning And Development
ANCHORAGE PRE-APPROVAL

OPA - 2148 - 07

PRODUCT MANUFACTURER: PETER PEPPER PRODUCTS

PRODUCT NAME/TYPE/MODEL: GUEST CENTER [Models GC1, GC2, GC3]

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):

$F_p = 1.6 S_Ds I_p W_p = 4.62 W_p$

$F_v = 0.2 S_Ds W_p = 0.39 W_p$ WHERE,

$S_Ds = 2/3 F_a S_s = 1.927g$ (EQ. 11.4-3)

$I_p = 1.50$

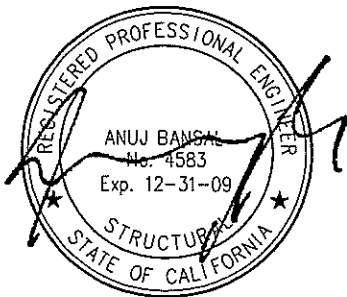
$F_a = 1.00$

$S_s = 2.89 g$

$W_p = \text{MAXIMUM OPERATING WEIGHT}$

NOTE THAT THE FORCE LEVEL IS FOR STRENGTH DESIGN

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





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PRODUCT MANUFACTURER: PETER PEPPER PRODUCTS

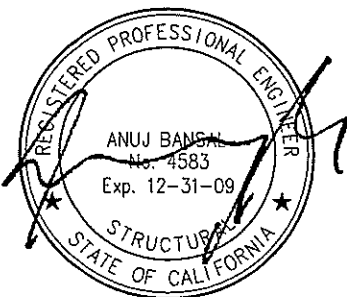
PRODUCT NAME/TYPE/MODEL: GUEST CENTER [Models GC1, GC2, GC3]

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.
- 2. 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. VERIFY THAT THE CONCRETE WALL / CMU WALL WHICH THE UNIT IS ANCHORED IS NOT CRACKED.
- 5. DESIGN ANY SUPPLEMENTARY MEMBERS AND THEIR ATTACHMENTS WHICH THE UNIT IS ANCHORED TO. VERIFY THE ADEQUACY OF ANY EXISTING MEMBERS AND THEIR ATTACHMENTS WHICH THE UNIT IS ANCHORED TO, FOR THE FORCES EXERTED ON THEM BY THE UNIT IN ADDITION TO ALL OTHER LOADS AND FORCES.



A P P R O V E D
Fixed Equipment Anchorage
Office of Statewide Health Planning and Development

OPA-2148-07

Pre-approval Program Manager:
Anthony R. Pike
(916) 440-8470

George Zhu July 8, 2009
Reviewed By: George Zhu Date





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ANCHORAGE PRE-APPROVAL

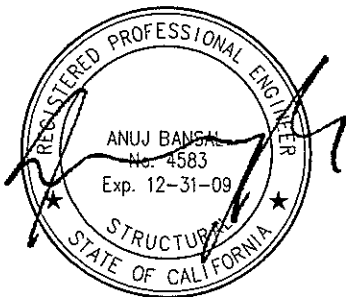
OPA - 2148 - 07

PRODUCT MANUFACTURER: PETER PEPPER PRODUCTS

PRODUCT NAME/TYPE/MODEL: GUEST CENTER [Models GC1, GC2, GC3]

MATERIAL SPECIFIC NOTES FOR SUPPORTING STRUCTURAL MEMBERS:

1. LIGHT GAGE METAL:
MINIMUM GAGE: 20 GA.
MINIMUM YIELD STRENGTH (f_y) = 33 KSI
2. WOOD:
MINIMUM GRADE: DOUGLAS FIR NO.3 OR BETTER
MINIMUM SPECIFIC GRAVITY (G) = 0.46
3. CONCRETE:
MINIMUM UNIT WEIGHT = 110 pcf (LIGHT WEIGHT CONCRETE)
MINIMUM UNIT WEIGHT = 145 pcf (NORMAL WEIGHT CONCRETE)
MINIMUM COMPRESSIVE STRENGTH (f_c) = 2000 PSI
4. MASONRY:
MINIMUM COMPRESSIVE STRENGTH (f_m) = 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.

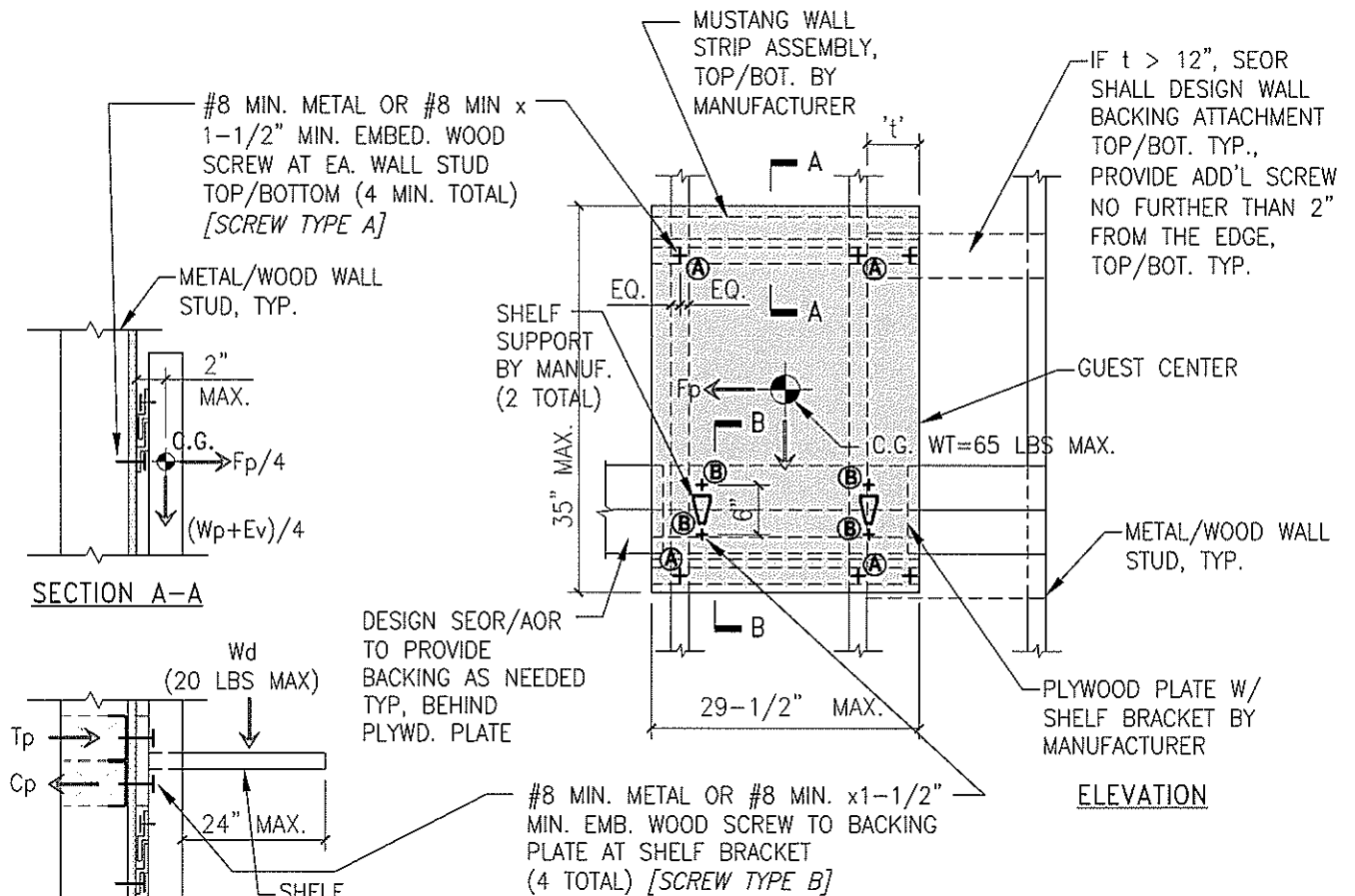


PETER PEPPER PRODUCTS

GUEST CENTER
 MODELS GC1, GC2, GC3

Designed By TY
 Project # A8621021.00
 Date 10/24/2008

MODEL GC1 (ONE PANEL) - METAL/WOOD STUDWALL ATTACHMENT



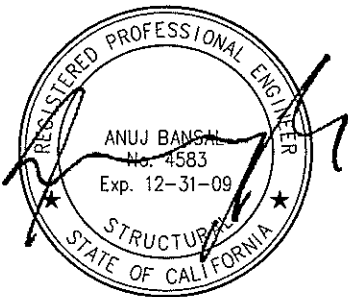
DESIGN SEOR/AOR TO PROVIDE BACKING AS NEEDED TYP. BEHIND PLYWD. PLATE

MAXIMUM DEMANDS FOR SCREW TYPE (A)

| | |
|-----------------------------------|------------------|
| CASE 1: EQ FORCE PERPEND. TO WALL | |
| TENSION = 79.5 LBS | SHEAR = 25.8 LBS |
| CASE 2: EQ FORCE PARALLEL TO WALL | |
| TENSION = 19.7 LBS | SHEAR = 79.4 LBS |

MAXIMUM DEMANDS FOR SCREW TYPE (B)

| | |
|-----------------------------------|------------------|
| CASE 1: EQ FORCE PERPEND. TO WALL | |
| TENSION = 47.1 LBS | SHEAR = 8.0 LBS |
| CASE 2: EQ FORCE PARALLEL TO WALL | |
| TENSION = 42.8 LBS | SHEAR = 24.4 LBS |



A P P R O V E D
 Fixed Equipment Anchorage
 Office of Statewide Health Planning and Development

OPA-2148-07
 Pre-approval Program Manager
 Anthony R. Pike
 (916) 440-8470

George Zhu
 Reviewed By: George Zhu
 Date July 8, 2009



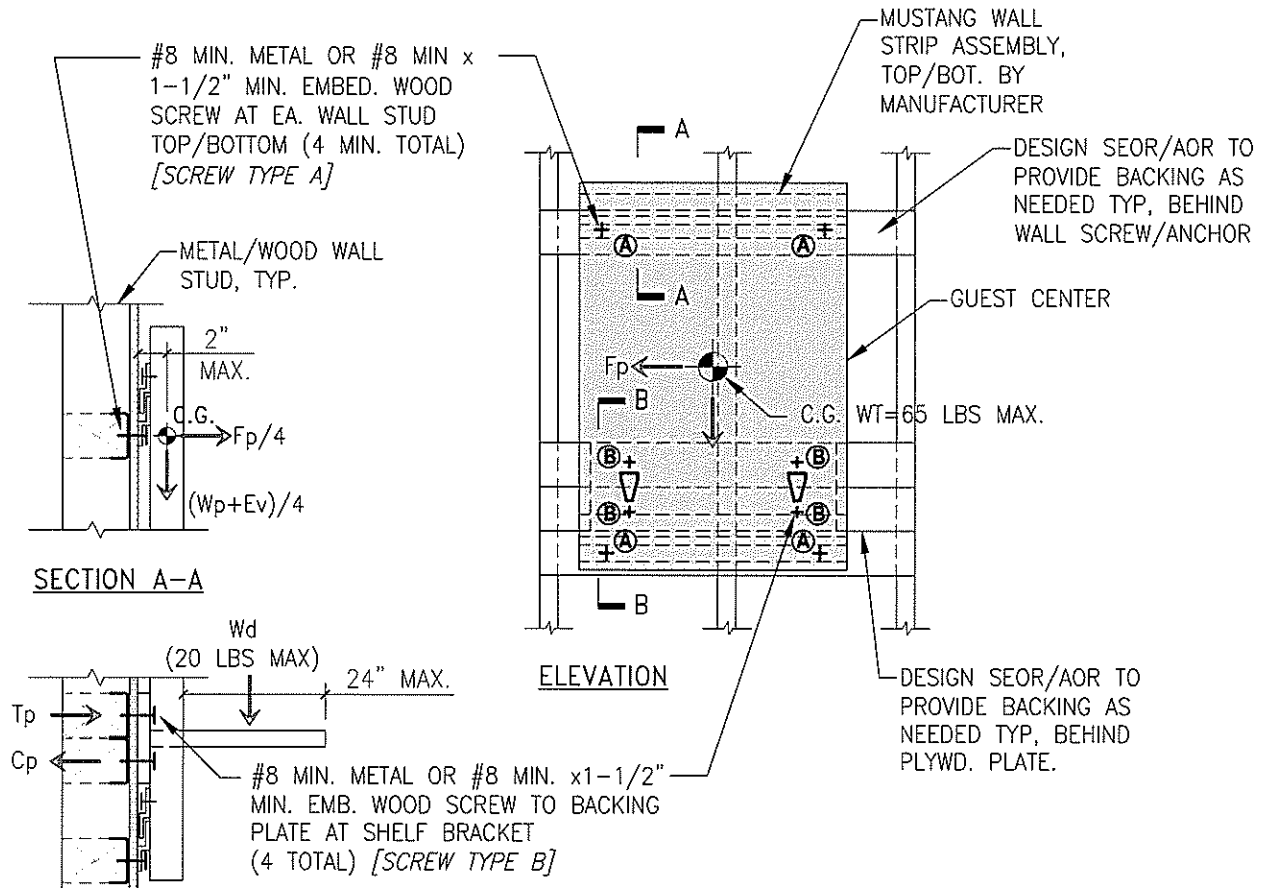
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 300 S. Grand Ave. #1115, Los Angeles, CA 90071
 (213) 596-5000 - (213) 596-5960

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PETER PEPPER PRODUCTS
GUEST CENTER
MODELS GC1, GC2, GC3

| | |
|-------------|-------------|
| Designed By | TY |
| Project # | A8621021.00 |
| Date | 10/24/2008 |

MODEL GC1 (ALTERNATE ATTACHMENT) – METAL/WOOD STUDWALL ATTACHMENT



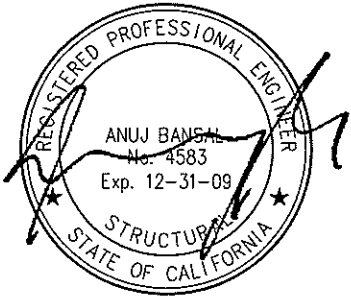
MAXIMUM DEMANDS FOR SCREW TYPE (A)

| | |
|-----------------------------------|------------------|
| CASE 1: EQ FORCE PERPEND. TO WALL | |
| TENSION = 79.5 LBS | SHEAR = 25.8 LBS |
| CASE 2: EQ FORCE PARALLEL TO WALL | |
| TENSION = 19.7 LBS | SHEAR = 79.4 LBS |

MAXIMUM DEMANDS FOR SCREW TYPE (B)

| | |
|-----------------------------------|------------------|
| CASE 1: EQ FORCE PERPEND. TO WALL | |
| TENSION = 47.1 LBS | SHEAR = 8.0 LBS |
| CASE 2: EQ FORCE PARALLEL TO WALL | |
| TENSION = 42.8 LBS | SHEAR = 24.4 LBS |

NOTES:
 1. SEE PAGE 4 FOR INFO NOT SHOWN



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 Pre-approval Program Manager:
 Anthony R. Pike
 (915) 440-8470

George Zhu
 Reviewed By: **George Zhu** July 8, 2009
 Date



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 (213) 596-5000 - (213) 596-5960

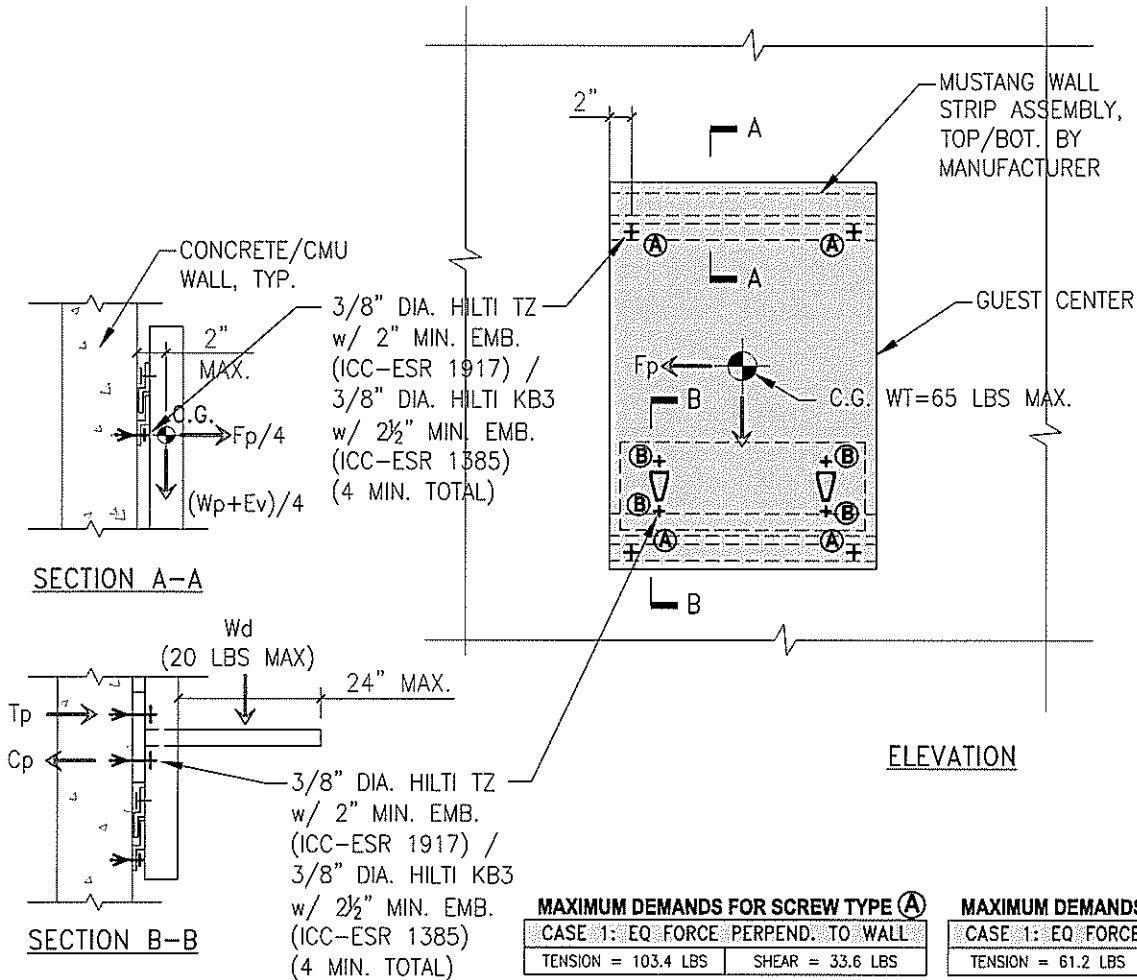
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PETER PEPPER PRODUCTS

GUEST CENTER
 MODELS GC1, GC2, GC3

Designed By TY
 Project # A8621021.00
 Date 10/24/2008

MODEL GC1 (ONE PANEL) - CONCRETE/CMU WALL ATTACHMENT



MAXIMUM DEMANDS FOR SCREW TYPE (A)

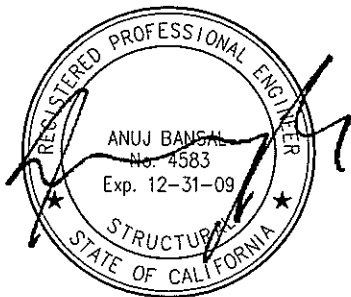
| | |
|-----------------------------------|-------------------|
| CASE 1: EQ FORCE PERPEND. TO WALL | |
| TENSION = 103.4 LBS | SHEAR = 33.6 LBS |
| CASE 2: EQ FORCE PARALLEL TO WALL | |
| TENSION = 25.6 LBS | SHEAR = 103.2 LBS |

MAXIMUM DEMANDS FOR SCREW TYPE (B)

| | |
|-----------------------------------|------------------|
| CASE 1: EQ FORCE PERPEND. TO WALL | |
| TENSION = 61.2 LBS | SHEAR = 10.3 LBS |
| CASE 2: EQ FORCE PARALLEL TO WALL | |
| TENSION = 55.6 LBS | SHEAR = 31.8 LBS |

NOTES:

1. SEE PAGE 4 FOR INFO NOT SHOWN



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 Anthony R. Pike
 (916) 440-8470

George Zhu
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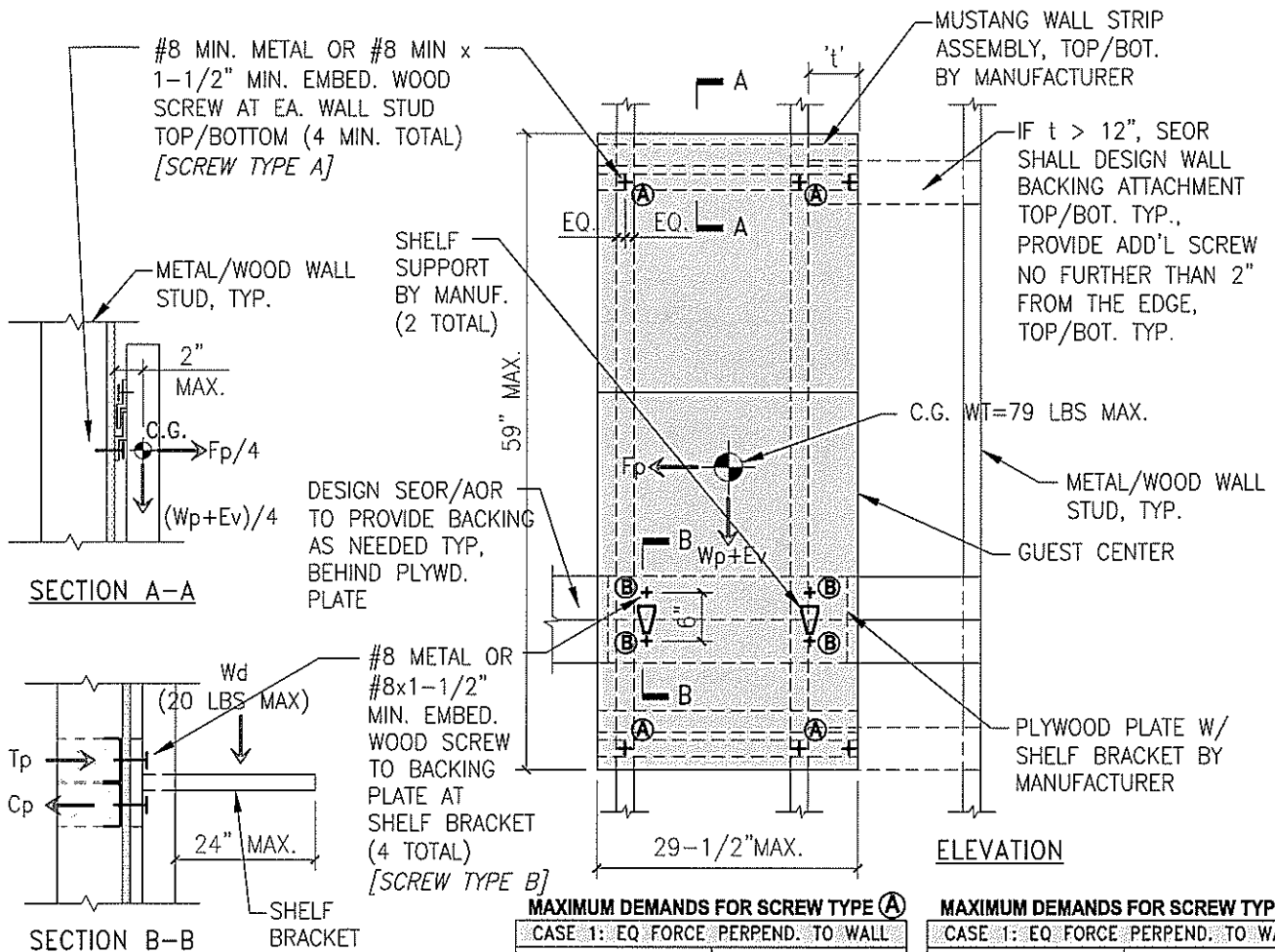
July 8, 2009
 Date

PETER PEPPER PRODUCTS

GUEST CENTER
 MODELS GC1, GC2, GC3

Designed By TY
 Project # A8621021.00
 Date 10/24/2008

MODEL GC2 (TWO PANELS) – METAL/WOOD STUDWALL ATTACHMENT



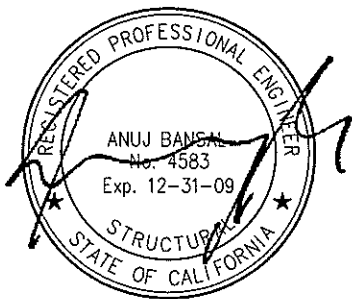
MAXIMUM DEMANDS FOR SCREW TYPE (A)

| | |
|-----------------------------------|------------------|
| CASE 1: EQ FORCE PERPEND. TO WALL | |
| TENSION = 94.4 LBS | SHEAR = 31.4 LBS |
| CASE 2: EQ FORCE PARALLEL TO WALL | |
| TENSION = 21.8 LBS | SHEAR = 96.5 LBS |

MAXIMUM DEMANDS FOR SCREW TYPE (B)

| | |
|-----------------------------------|------------------|
| CASE 1: EQ FORCE PERPEND. TO WALL | |
| TENSION = 47.1 LBS | SHEAR = 8.0 LBS |
| CASE 2: EQ FORCE PARALLEL TO WALL | |
| TENSION = 42.8 LBS | SHEAR = 24.4 LBS |

NOTES:
 1. SEE PAGE 4 FOR INFO NOT SHOWN



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 Office of Statewide Health Planning and Development

OPA-2148-07

Pre-approval Program Manager:
 Anthony R. Pike
 (916) 440-8470

George Zhu July 8, 2009
 Reviewed By: George Zhu Date



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

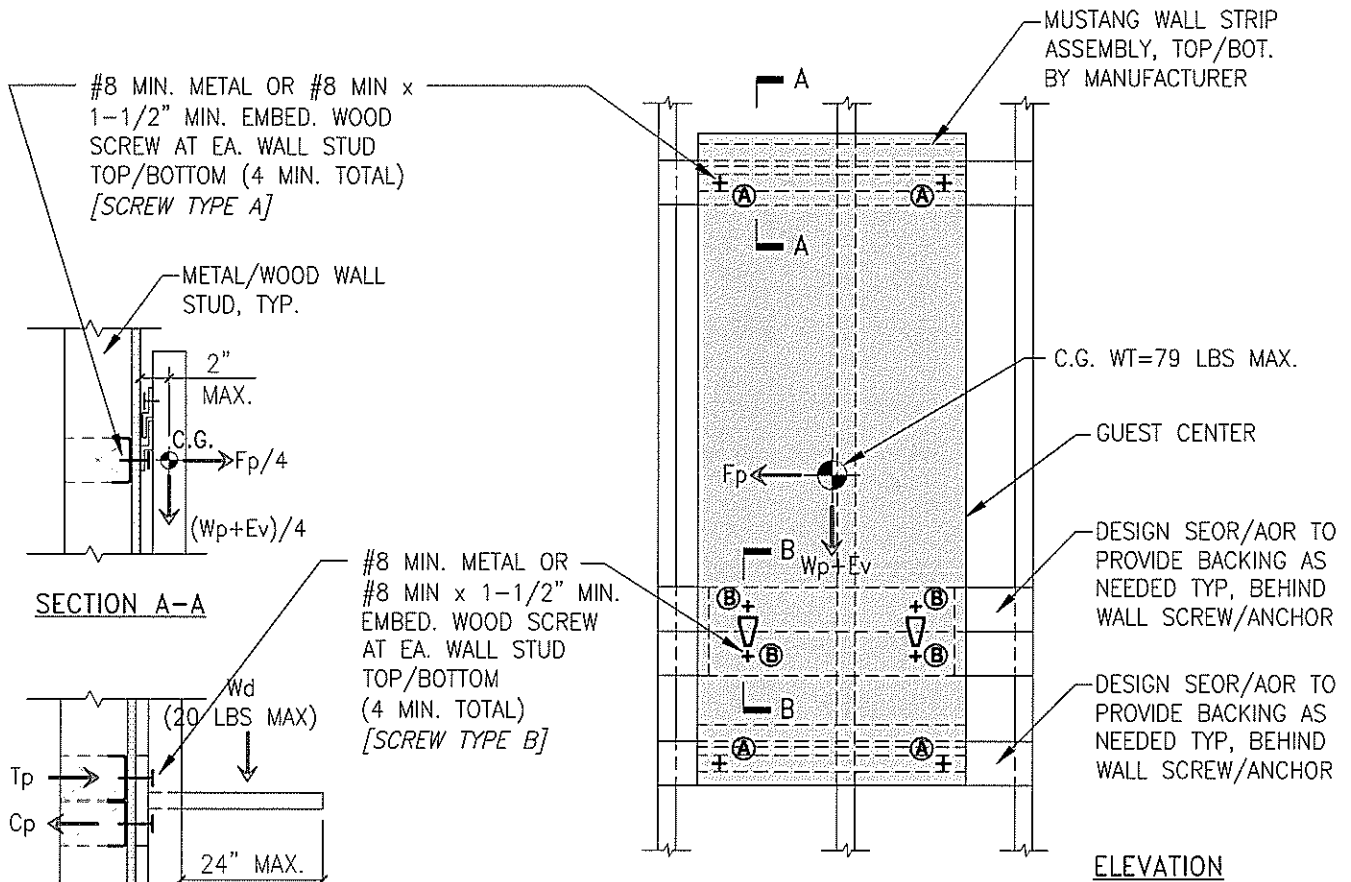
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PETER PEPPER PRODUCTS

GUEST CENTER
 MODELS GC1, GC2, GC3

Designed By TY
 Project # A8621021.00
 Date 10/24/2008

MODEL GC2 (ALTERNATE ATTACHMENT) – METAL/WOOD STUDWALL ATTACHMENT



SECTION A-A

SECTION B-B

ELEVATION

MAXIMUM DEMANDS FOR SCREW TYPE (A)

| | |
|-----------------------------------|------------------|
| CASE 1: EQ FORCE PERPEND. TO WALL | |
| TENSION = 94.4 LBS | SHEAR = 31.4 LBS |

| | |
|-----------------------------------|------------------|
| CASE 2: EQ FORCE PARALLEL TO WALL | |
| TENSION = 21.8 LBS | SHEAR = 96.5 LBS |

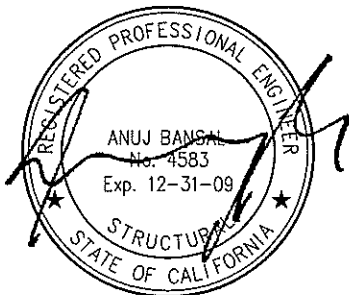
MAXIMUM DEMANDS FOR SCREW TYPE (B)

| | |
|-----------------------------------|-----------------|
| CASE 1: EQ FORCE PERPEND. TO WALL | |
| TENSION = 47.1 LBS | SHEAR = 8.0 LBS |

| | |
|-----------------------------------|------------------|
| CASE 2: EQ FORCE PARALLEL TO WALL | |
| TENSION = 42.8 LBS | SHEAR = 24.4 LBS |

NOTES:

1. SEE PAGE 4 & 7 FOR INFO NOT SHOWN



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 Office of Statewide Health Planning and Development

OPA-2148-07
 Pre-approval Program Manager:
 Anthony R. Pike
 (916) 440-8470

George Zhu
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Degenkolb Engineers
 300 S. Grand Ave. #1115, Los Angeles, CA 90071
 (213) 596-5000 - (213) 596-5960

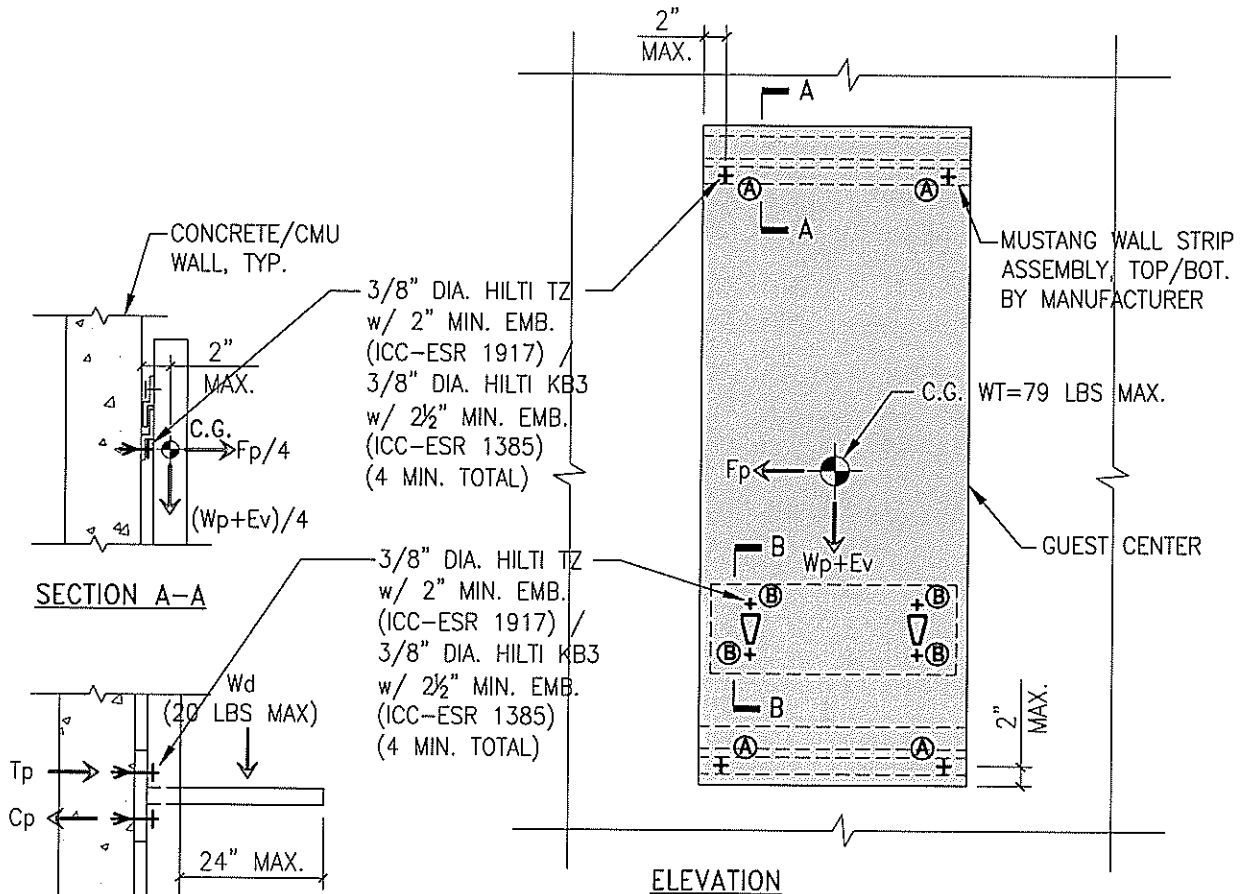
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PETER PEPPER PRODUCTS

GUEST CENTER
 MODELS GC1, GC2, GC3

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 Project # A8621021.00
 Date 10/24/2008

MODEL GC2 - CONCRETE/CMU WALL ATTACHMENT



MAXIMUM DEMANDS FOR SCREW TYPE (A)

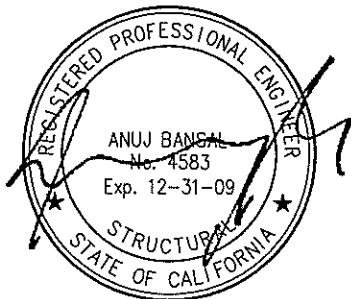
| | |
|-----------------------------------|-------------------|
| CASE 1: EQ FORCE PERPEND. TO WALL | |
| TENSION = 122.8 LBS | SHEAR = 40.8 LBS |
| CASE 2: EQ FORCE PARALLEL TO WALL | |
| TENSION = 28.3 LBS | SHEAR = 125.4 LBS |

MAXIMUM DEMANDS FOR SCREW TYPE (B)

| | |
|-----------------------------------|------------------|
| CASE 1: EQ FORCE PERPEND. TO WALL | |
| TENSION = 61.2 LBS | SHEAR = 10.3 LBS |
| CASE 2: EQ FORCE PARALLEL TO WALL | |
| TENSION = 55.6 LBS | SHEAR = 31.8 LBS |

NOTES:

1. SEE PAGE 4 & 7 FOR INFO NOT SHOWN



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 Office of Statewide Health Planning and Development

OPA-2144-07

Pre-approval Program Manager
 Anthony R. Pire
 (916) 440-8470

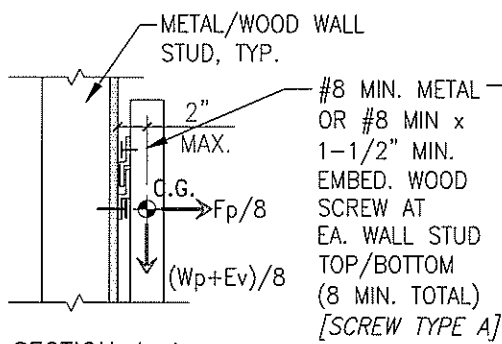
George Zhu July 8, 2009
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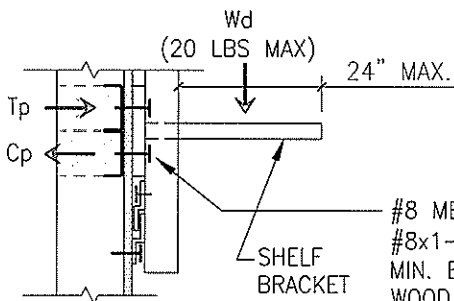
GUEST CENTER
 MODELS GC1, GC2, GC3

| | |
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| Project # | A8621021.00 |
| Date | 10/24/2008 |

MODEL GC3 (THREE PANELS) – METAL/WOOD STUDWALL ATTACHMENT



SECTION A-A



SECTION B-B

MAXIMUM DEMANDS SCREW TYPE A

| | |
|-----------------------------------|------------------|
| CASE 1: EQ FORCE PERPEND. TO WALL | |
| TENSION = 94.4 LBS | SHEAR = 31.4 LBS |
| CASE 2: EQ FORCE PARALLEL TO WALL | |
| TENSION = 21.8 LBS | SHEAR = 96.5 LBS |

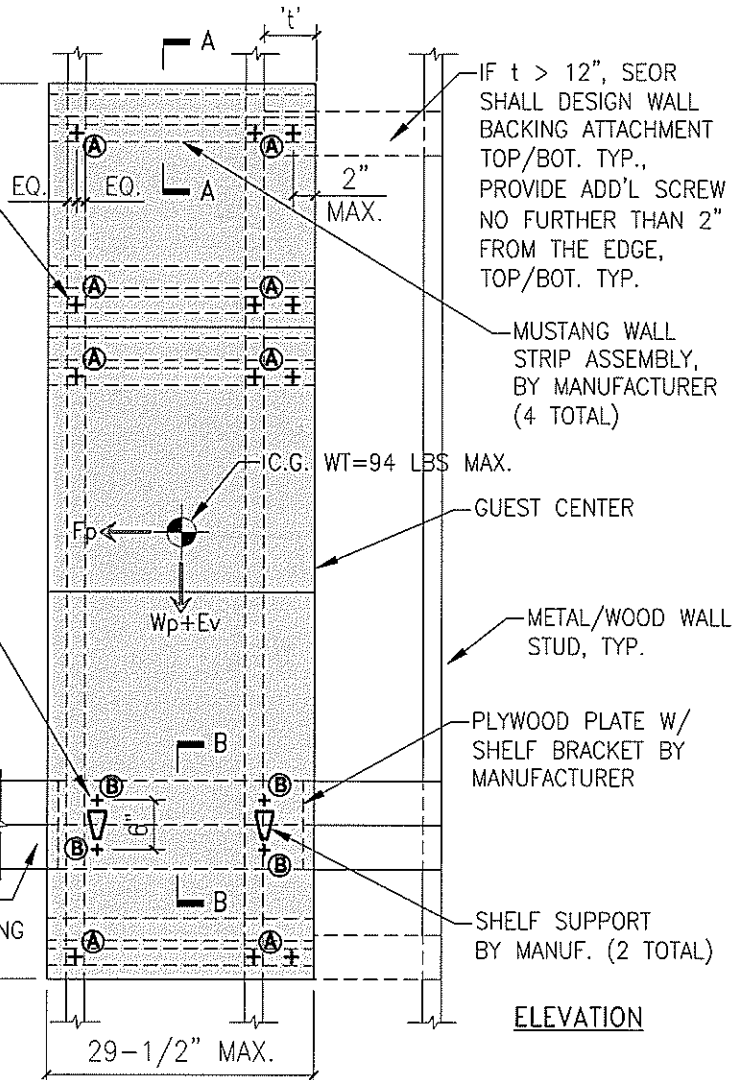
MAXIMUM DEMANDS SCREW TYPE B

| | |
|-----------------------------------|------------------|
| CASE 1: EQ FORCE PERPEND. TO WALL | |
| TENSION = 47.1 LBS | SHEAR = 8.0 LBS |
| CASE 2: EQ FORCE PARALLEL TO WALL | |
| TENSION = 42.8 LBS | SHEAR = 24.4 LBS |

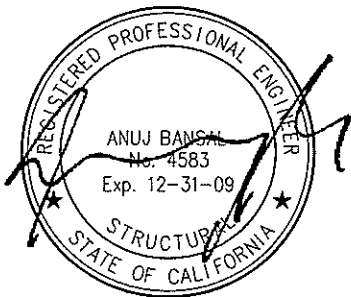
#8 MIN. METAL OR #8 MIN x 1-1/2" MIN. EMBED. WOOD SCREW AT EA. WALL STUD TOP/BOTTOM (8 MIN. TOTAL) [SCREW TYPE A]

#8 METAL OR #8x1-1/2" MIN. EMBED. WOOD SCREW TO BACKING PLATE AT SHELF BRACKET (4 TOTAL) [SCREW TYPE B]

DESIGN SEOR/AGR TO PROVIDE BACKING AS NEEDED TYP. BEHIND PLYWD. PLATE.



ELEVATION



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George Zhu
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 300 S. Grand Ave. #1115, Los Angeles, CA 90071
 (213) 596-5000 - (213) 596-5960

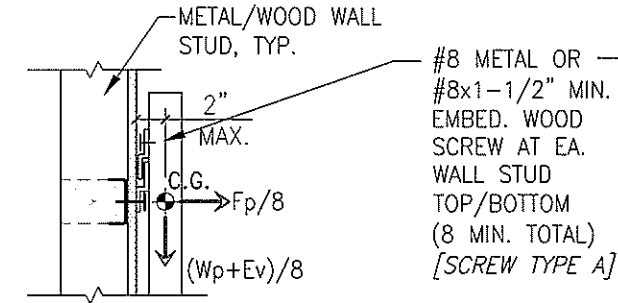
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PETER PEPPER PRODUCTS

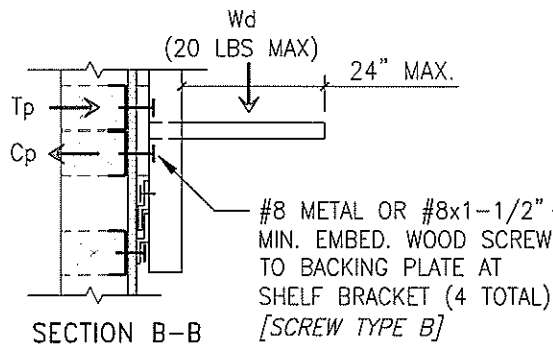
GUEST CENTER
 MODELS GC1, GC2, GC3

Designed By TY
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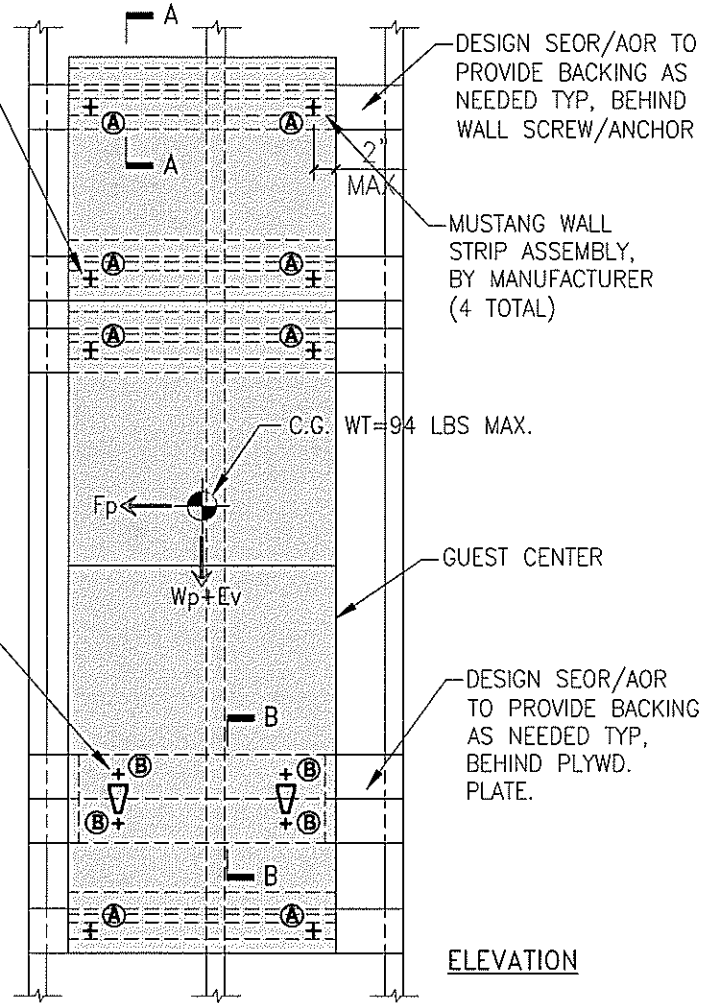
MODEL GC3 (ALTERNATE ATTACHMENT) - METAL/WOOD STUDWALL ATTACHMENT



SECTION A-A



SECTION B-B



ELEVATION

MAXIMUM DEMANDS SCREW TYPE (A)

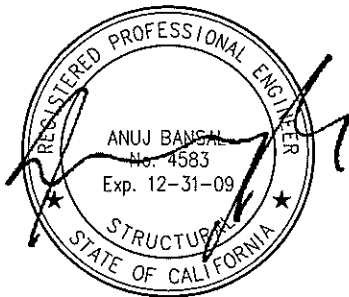
| | |
|-----------------------------------|------------------|
| CASE 1: EQ FORCE PERPEND. TO WALL | |
| TENSION = 94.4 LBS | SHEAR = 31.4 LBS |
| CASE 2: EQ FORCE PARALLEL TO WALL | |
| TENSION = 21.8 LBS | SHEAR = 96.5 LBS |

MAXIMUM DEMANDS SCREW TYPE (B)

| | |
|-----------------------------------|------------------|
| CASE 1: EQ FORCE PERPEND. TO WALL | |
| TENSION = 47.1 LBS | SHEAR = 8.0 LBS |
| CASE 2: EQ FORCE PARALLEL TO WALL | |
| TENSION = 42.8 LBS | SHEAR = 24.4 LBS |

NOTES:

1. SEE PAGE 4 ,7 & 10 FOR INFO NOT SHOWN



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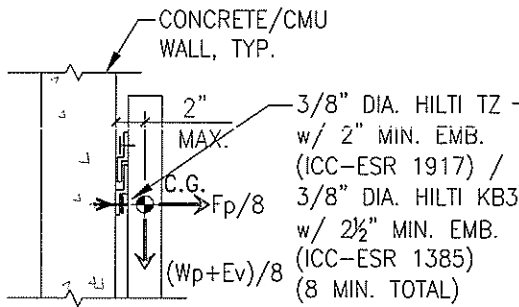
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 Date: July 8, 2009

PETER PEPPER PRODUCTS

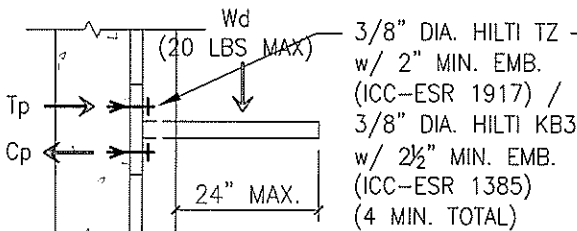
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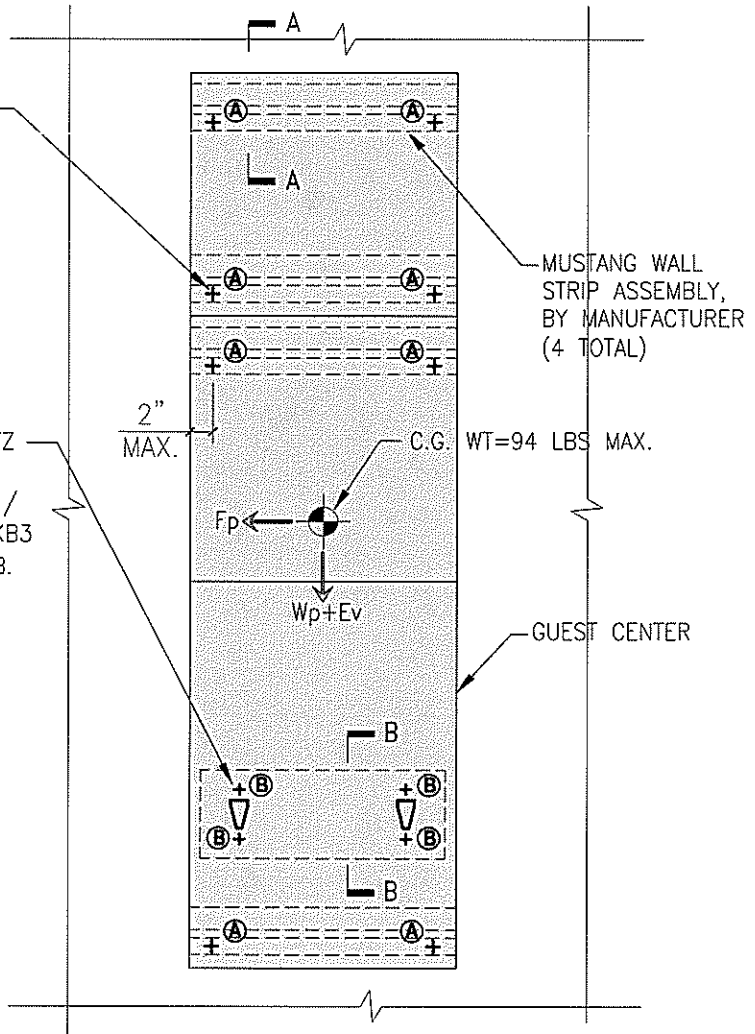
MODEL GC3 (THREE PANELS) - CONCRETE/CMU WALL ATTACHMENT



SECTION A-A



SECTION B-B



MAXIMUM DEMANDS SCREW TYPE (A)

CASE 1: EQ FORCE PERPEND. TO WALL

TENSION = 122.8 LBS SHEAR = 40.8 LBS

CASE 2: EQ FORCE PARALLEL TO WALL

TENSION = 28.3 LBS SHEAR = 125.4 LBS

MAXIMUM DEMANDS SCREW TYPE (B)

CASE 1: EQ FORCE PERPEND. TO WALL

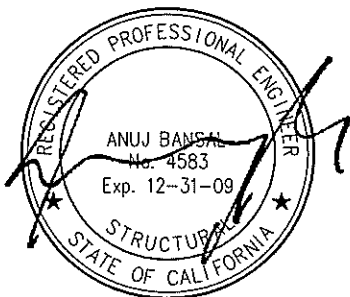
TENSION = 61.2 LBS SHEAR = 10.3 LBS

CASE 2: EQ FORCE PARALLEL TO WALL

TENSION = 55.6 LBS SHEAR = 31.8 LBS

NOTES:

1. SEE PAGE 4 ,7 & 10 FOR INFO NOT SHOWN



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