



OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT
FACILITIES DEVELOPMENT DIVISION

APPLICATION FOR OSHPD PREAPPROVAL OF MANUFACTURER'S CERTIFICATION (OPM)

OFFICE USE ONLY
APPLICATION #: OPM-0206-13

OSHPD Preapproval of Manufacturer's Certification (OPM)

Type: [X] New [] Renewal [] Update to Pre-CBC 2013 OPA Number:

Manufacturer Information

Manufacturer: NuAire, Inc.

Manufacturer's Technical Representative: William Peters

Mailing Address: 2100 Fernbrook Lane, Plymouth, MN 55447

Telephone: 763-553-1270 Email: bpeters@nuaire.com

Product Information

Product Name: Compounding Isolators

Product Type: Compounding Aseptic & Containment Isolators

Product Model Number: Model numbers - See Sheet 2 of 7

General Description: Pharmacy isolators providing product, personnel and environmental protection used in the preparation of compounded pharmacy products.

Applicant Information

Applicant Company Name: LTK Associates, Inc.

Contact Person: Ray Uribes

Mailing Address: 745 Distel Drive, Los Altos, CA 94022

Telephone: 650-967-8465 Email: ltk@ltkse.com

I hereby agree to reimburse the Office of Statewide Health Planning and Development review fees in accordance with the California Administrative Code, 2013.

Signature of Applicant: [Handwritten Signature] Date: March 30, 2015

Title: President Company Name: LTK Associates, Inc.

Access to Safe, Quality Healthcare Environments that Meet California's Diverse and Dynamic Needs





**OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT
FACILITIES DEVELOPMENT DIVISION**

Registered Design Professional Preparing Engineering Recommendations

Company Name: LTK Associates, Inc.

Name: Ray Uribes California License Number: S2479

Mailing Address: 745 Distel Drive, Los Altos, CA 94022

Telephone: 650-967-8465 Email: ltk@ltkse.com

OSHPD Special Seismic Certification Preapproval (OSP)

- Special Seismic Certification is preapproved under OSP- (Separate application for OSP is required)
- Special Seismic Certification is not preapproved

Certification Method(s)

- Testing in accordance with: ICC-ES AC156 FM 1950-10
- Other* (Please Specify): _____

*Use of criteria other than those adopted by the California Building Standards Code, 2013 (CBSC 2013) for component supports and attachments are not permitted. For distribution system, interior partition wall, and suspended ceiling seismic bracings, test criteria other than those adopted in the CBSC 2013 may be used when approved by OSHPD prior to testing.

- Analysis
- Experience Data
- Combination of Testing, Analysis, and/or Experience Data (Please Specify): _____

List of Attachments Supporting the Manufacturer's Certification

- Test Report Drawings Calculations Manufacturer's Catalog
- Other(s) (Please Specify): _____

OFFICE USE ONLY – OSHPD APPROVAL VALID FOR CBC 2013 ONLY

Signature:  Date: 03-03-2016

Print Name: Jeffrey Kikumoto

Title: SSE

Condition of Approval (if applicable): _____

"Access to Safe, Quality Healthcare Environments that Meet California's Diverse and Dynamic Needs"



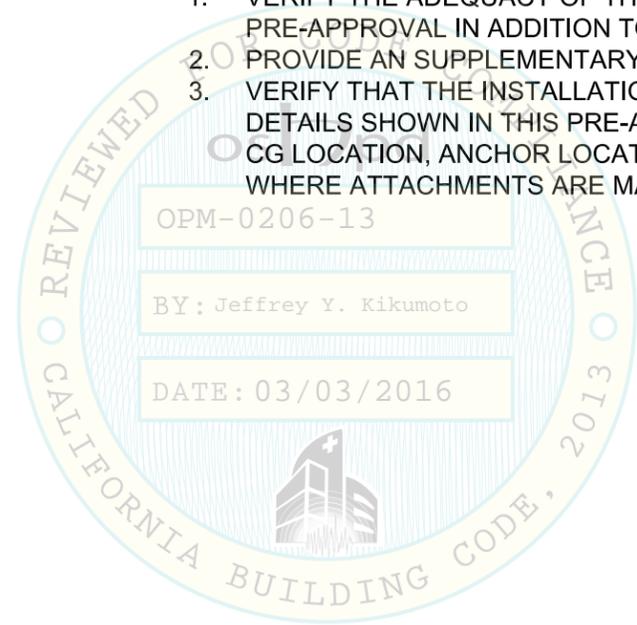
REV	ECO	DESCRIPTION	DATE	DRFT	CHKD
A	12543	RELEASED TO PRODUCTION	9/8/15	LS	BP

PRE-APPROVAL NOTES:

1. THIS OSHPD PREAPPROVAL OF MANUFACTURER'S CERTIFICATION (OPM) IS BASED ON CBC 2013. THE DEMAND (DESIGN FORCES) FOR USE WITH THIS OPM SHALL BE BASED ON THE CBC 2013.
2. FORCES PER ASCE 7-10 SECTION 13.3.1, EQUATIONS 13.3-1, 13.3-2 AND 13.3-3, WHERE: $S_{DS} = 2.0$, $a_p = 1.0$, AND $R_p = 2.5$. (FORCE LEVEL FOR E_h & E_v IS ASD) HORIZONTAL FORCE (E_h) = $1.00W_p$, VERTICAL FORCE (E_v) = $0.28W_p$.
3. THE DETAILS IN THIS PRE-APPROVAL ARE APPLICABLE TO ANY LOCATION IN THE STATE OF CALIFORNIA WHERE S_{DS} IS NOT GREATER THAN 2.0. THE DETAILS WERE DEVELOPED USING $h=z$ AND MAY BE USED AT ANY HEIGHT IN THE BUILDING WHERE $z/h \leq 1.0$.
4. DESIGN FORCES SHOWN ON THE DRAWINGS ARE BASED ON WORKING STRESS LOADS AND MAY BE USED FOR ALLOWABLE STRESS DESIGN.
5. THIS PRE-APPROVAL COVERS ONLY THE ATTACHMENT OF THE UNIT TO THE STRUCTURE. IT DOES NOT CONSTITUTE SEISMIC CERTIFICATION OF THE EQUIPMENT.

RESPONSIBILITIES OF THE STRUCTURAL ENGINEER OF RECORD:

1. VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE WEIGHT AND FORCES SHOWN IN THIS PRE-APPROVAL IN ADDITION TO ALL OTHER WEIGHTS AND FORCES THAT ARE IMPOSED ON IT.
2. PROVIDE AN SUPPLEMENTARY STRUCTURE REQUIRED FOR STRENGTH AND STABILITY.
3. VERIFY THAT THE INSTALLATION IS IN CONFORMANCE WITH THE 2013 CBC AND WITH THE NOTES AND 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 CONFORM WITH THE INFORMATION SHOWN IN THIS PRE-APPROVAL.



LTK
ASSOCIATES
Incorporated

Structural Engineers
745 Distel Drive
Los Altos, CA 94022
(650) 967- 8465
FAX (650) 967-5148

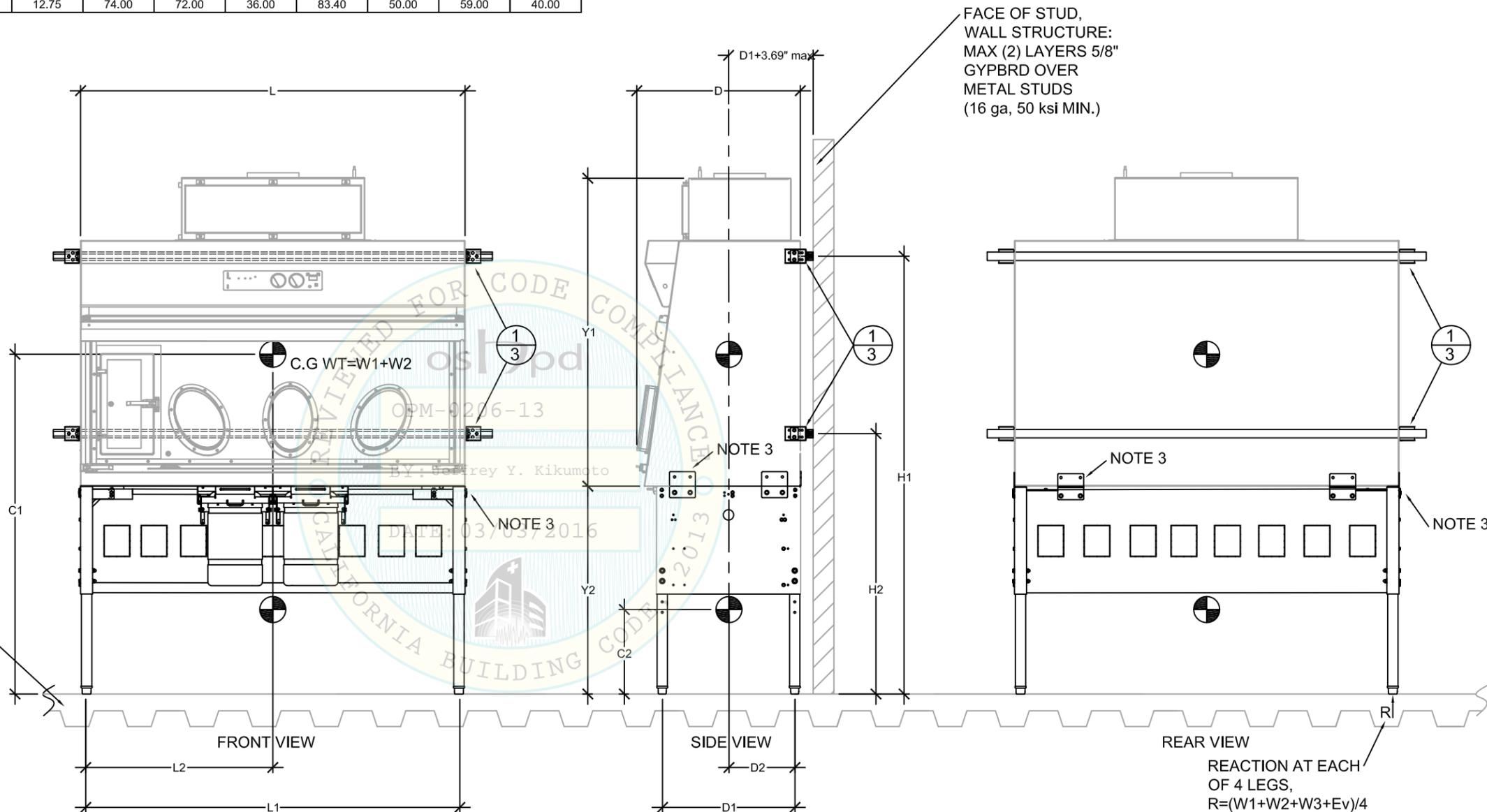
SUPPORTS & ATTACHMENTS DETAILS (WALL MOUNT) COMPOUNDING ISOLATOR					
DFTM	LS	1/26/16	CHKD	BP	SHEET 1 OF 6
DRAWING NUMBER		BCD-17201			A

Compounding Isolator Data			
Model no.	HOOD = W1 (lb)	CONTENT = W2 (lb)	STAND = W3 (lb)
NU-PR/NR/NTE797/800-400	465	100	150
NU-PR/NR/NTE797/800-600	615	100	160

DIMENSIONS												
Model no.	C1	C2	D	D1	D2	L	L1	L2	H1	H2	Y1	Y2
NU-PR/NR/NTE797/800-400	68.25	15.00	32.50	26.00	12.75	50.00	48.00	24.00	83.40	50.00	59.00	40.00
NU-PR/NR/NTE797/800-600	68.25	15.00	32.50	26.00	12.75	74.00	72.00	36.00	83.40	50.00	59.00	40.00

Cabinet Model no.	Basestand Part number
NU-PR797-400	NU-700-112
NU-PR797-600	NU-700-113
NU-NR797/800-400	NU-700-112
NU-NR797/800-600	NU-700-113
NU-NTE797/800-400	NU-700-112
NU-NTE797/800-600	NU-700-113

FLOOR STRUCTURE:
 AT ELEVATED SLAB:
 MIN. 2 1/2" THICK, 3000 PSI SAND LTWT
 CONCRETE OVER METAL DECK.
 AT SOG:
 MIN. 4" THICK, 3000 PSI, NW CONCRETE



ISOLATOR MODEL NU-NTE797/800-600
 SHOWN HERE W/
 BASESTAND MODEL NU-700-113

NOTES:

- SEE ALL NOTES SHEET 1 OF 6.
- FOR ATTACHMENT DETAILS, SEE SHEET 3 OF 6.
- FIELD ASSEMBLED CONNECTION OF CABINET TO SUPPORT TABLE CONTRACTOR TO INSTALL 14 ga 304 SST PLATES (Fy=30ksi min.) w/ WASHERS AND NUTS ON WELDED STUDS ALL PROVIDED BY THE EQUIPMENT MANUFACTURER. TYPICAL 2 PLACES ON EACH SIDE AND 2 PLACES ON REAR

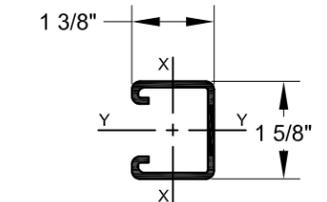


LTK
 ASSOCIATES
 Incorporated

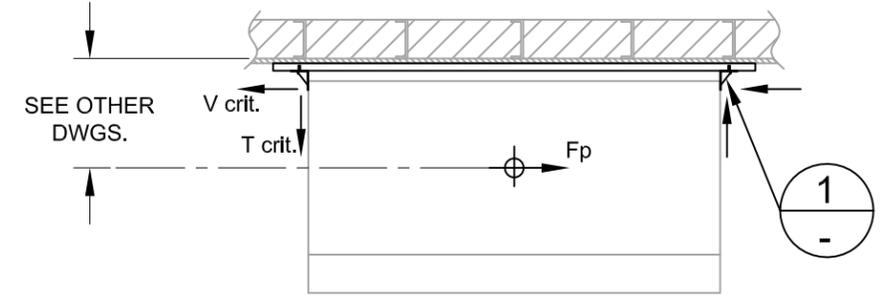
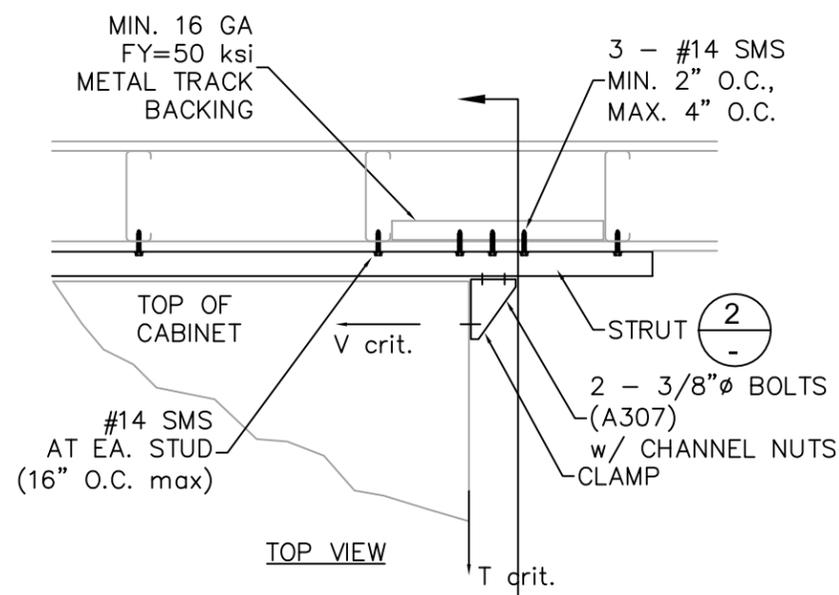
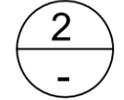
Structural Engineers
 745 Distel Drive
 Los Altos, CA 94022
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 FAX (650) 967-5148

SUPPORTS & ATTACHMENTS DETAILS (WALL MOUNT) COMPOUNDING ISOLATOR					
DFTM	LS	3/2/16	CHKD	BP	SHEET 2 OF 6
DRAWING NUMBER		BCD-17201		A	

REV	ECO	DESCRIPTION	DATE	DRFT	CHKD
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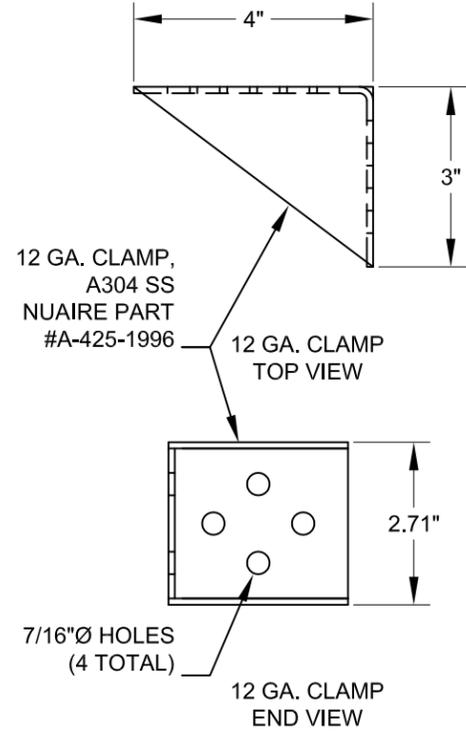
12ga STRUT (ASTM A1033 SS GRADE 33)
SOLID (NO HOLES)
MIN. STRUT CHANNEL PROPERTIES:
Wt. = 1.7 lb/ft A = 0.50 sq. in.
Sxx = 0.156 Syy = 0.255
rx = 0.493 ry = 0.643
Ixx = 0.122 Iyy = 0.207



TOP PLAN

NOTES

- SEE ALL NOTES SHEET 1 OF 6.
- MAXIMUM CRITICAL DESIGN FORCES AT EACH CLAMP:
T crit. = 232 lbs., V crit. = 219 lbs.
ALL FORCES ARE ASD LEVEL.
- SMS SHALL BE TEKS SCREWS (ICC-ES ESR-1976)



12 GA. CLAMP, ASTM A240 TYPE A304 SST
Fy=30 ksi MIN.
NUAIRE PART #A-425-1996 (SIDE VIEW SHOWN HERE)

3/8" Ø HOLES @ 3/4" O.C.

CABINET, 18 GA.

12 GA.x2 1/4"x1 1/2" A304 SST PLATE WASHER w/ 5/16" Ø HOLES NUAIRE PART #A-425-5016

1/4-20 THREADED STUDS CAPACITOR DISCHARGE (CD) SHOP WELDED TO 18 GA. 304 SST (Fy=30ksi MIN.) CABINET SIDE, WASHERS AND NUT PROVIDED BY EQUIPMENT MANUFACTURER, INSTALLED BY CONTRACTOR

2 - 3/8" Ø A307 BOLTS & B-LINE/TOLCO CHANNEL NUTS (N200) @ 1-1/2" O.C. (TORQUE TO 19 ft-lbs) AT EACH CLAMP

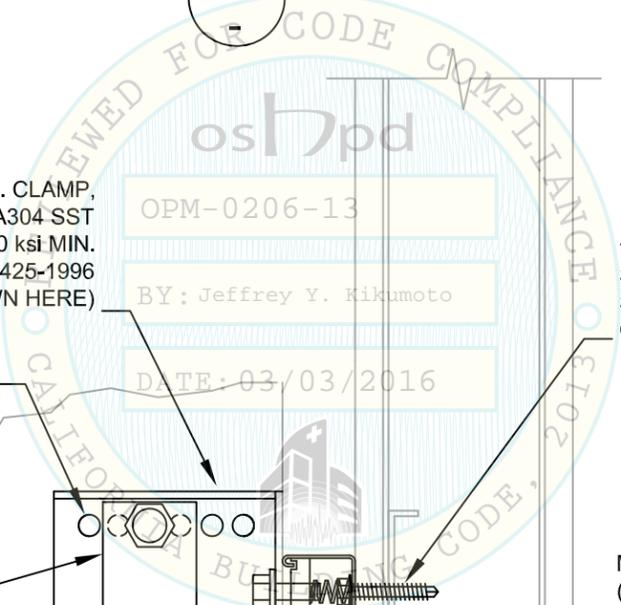
1/4"-14 X 1-1/2 SMS SELF DRILLING SCREWS, SEE DETAIL ABOVE FOR QUANTITY AND SPACING

MIN. 16 GA. (50 KSI) BACKING OR METAL STUDS BY SEOR

HORIZONTAL STRUT (SEE DETAIL 2) ONE LENGTH TO EXTEND PAST UNIT MIN. 6" EITHER SIDE

MAX 2 LAYERS (5/8 ") GYPSUM BOARD

SECTION A-A



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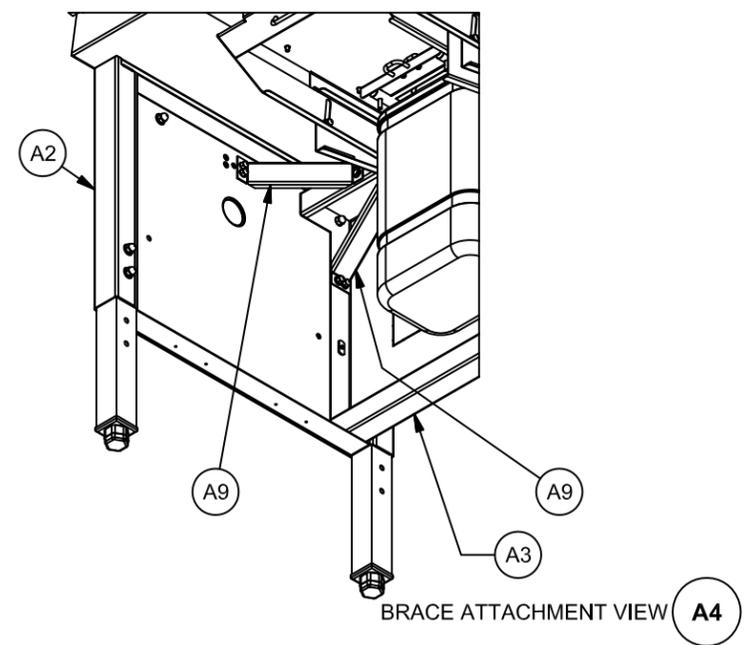
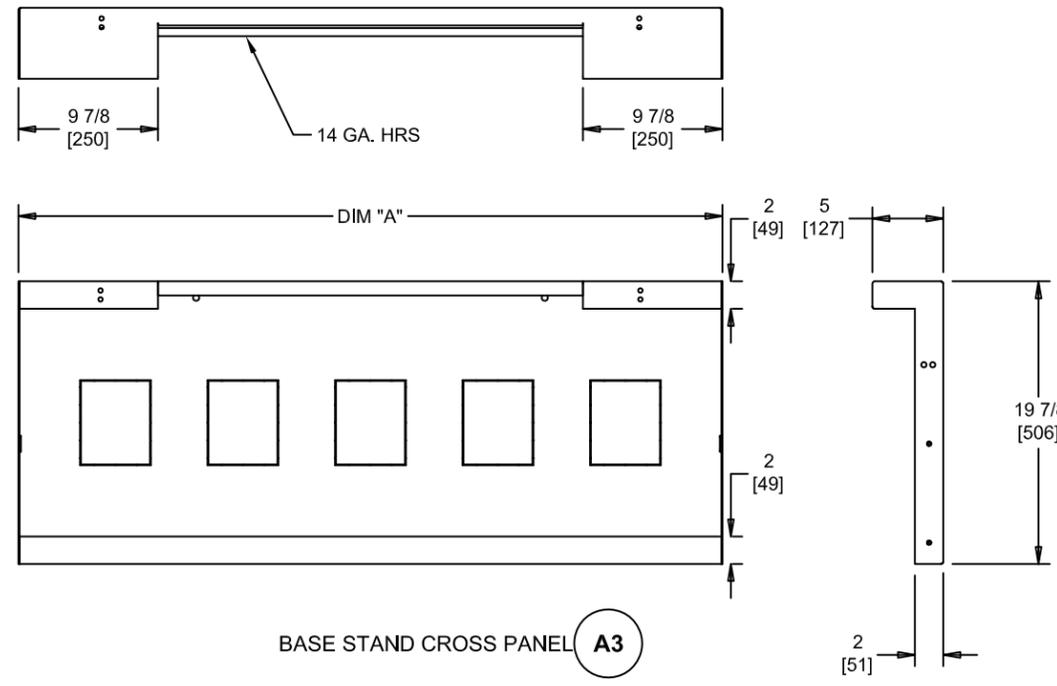
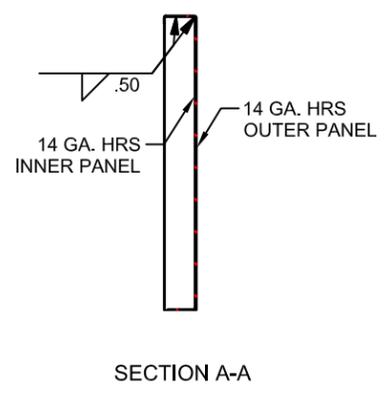
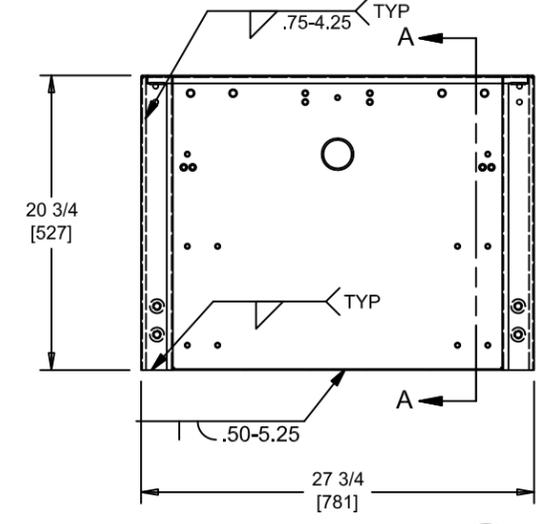
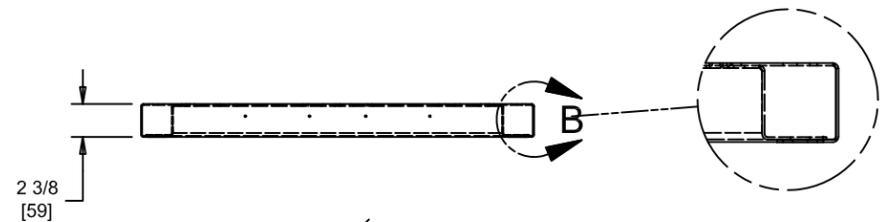
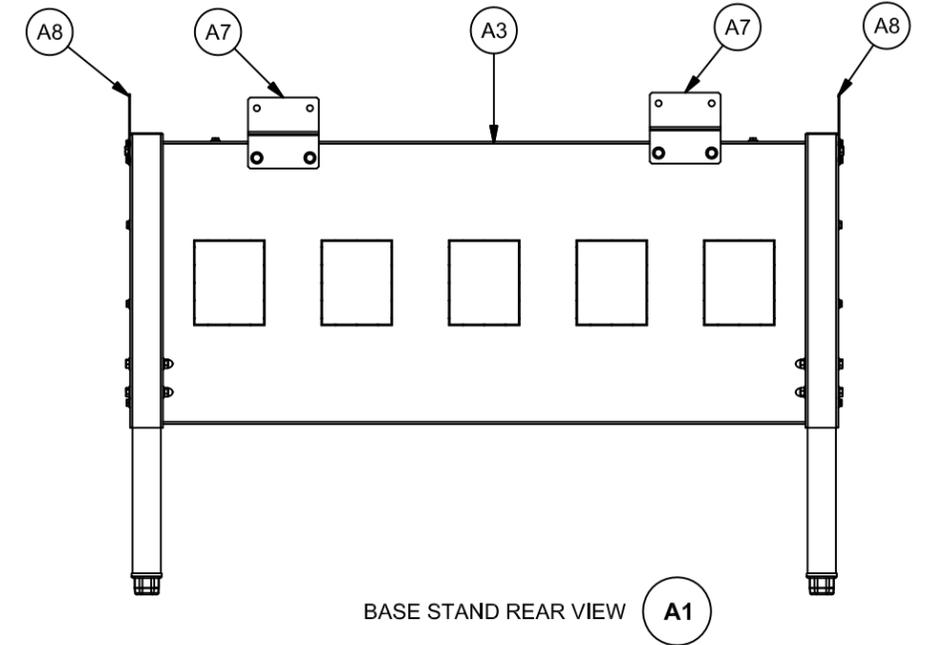
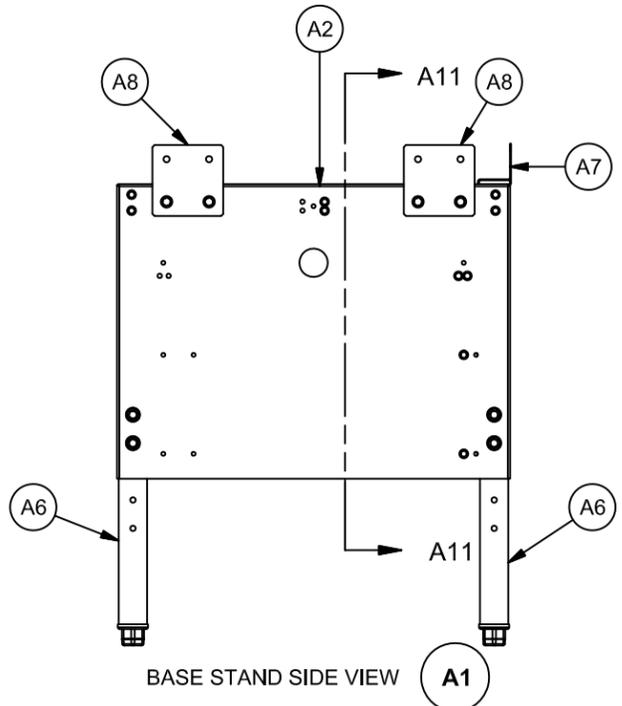
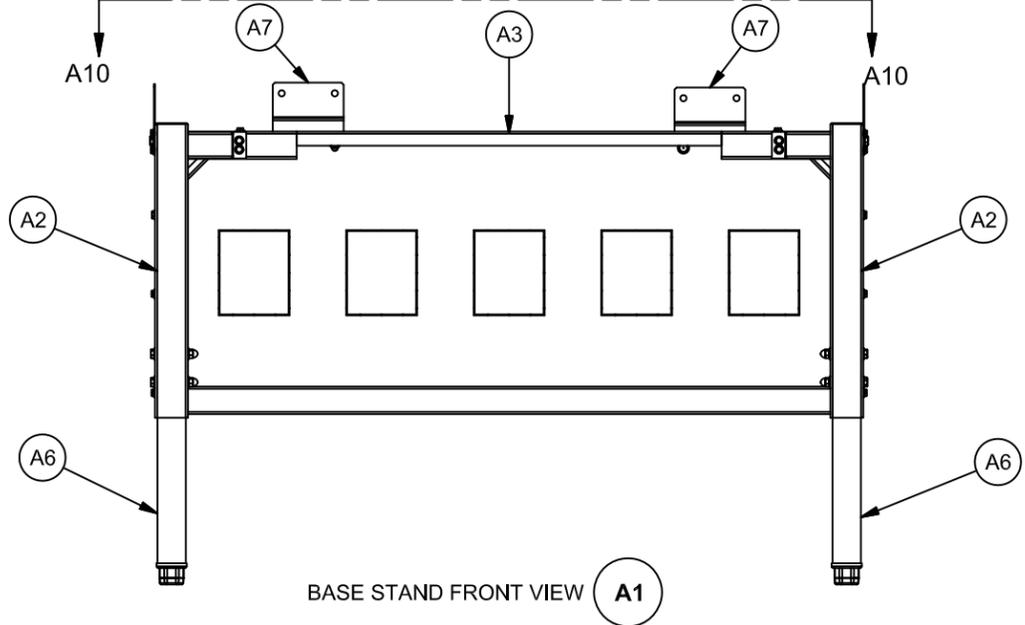
SUPPORTS & ATTACHMENTS DETAILS (WALL MOUNT) COMPOUNDING ISOLATOR					
DFTM	LS	3/2/16	CHKD	BP	SHEET 3 OF 6
DRAWING NUMBER		BCD-17201			A

VIEW A3	
CABINET SIZE	DIM "A"
4 FT.	49 3/4 [1264]
6 FT.	73 3/4 [1873]

Cabinet Model no.	Basestand Part number
NU-PR797-400 (4ft)	NU-700-112
NU-PR797-600 (6ft)	NU-700-113
NU-NR797/800-400 (4ft)	NU-700-112
NU-NR797/800-600 (6ft)	NU-700-113
NU-NTE797/800-400 (4ft)	NU-700-112
NU-NTE797/800-600 (6ft)	NU-700-113

REFERENCE ONLY

REV	ECO	DESCRIPTION	DATE	DRFT	CHKD



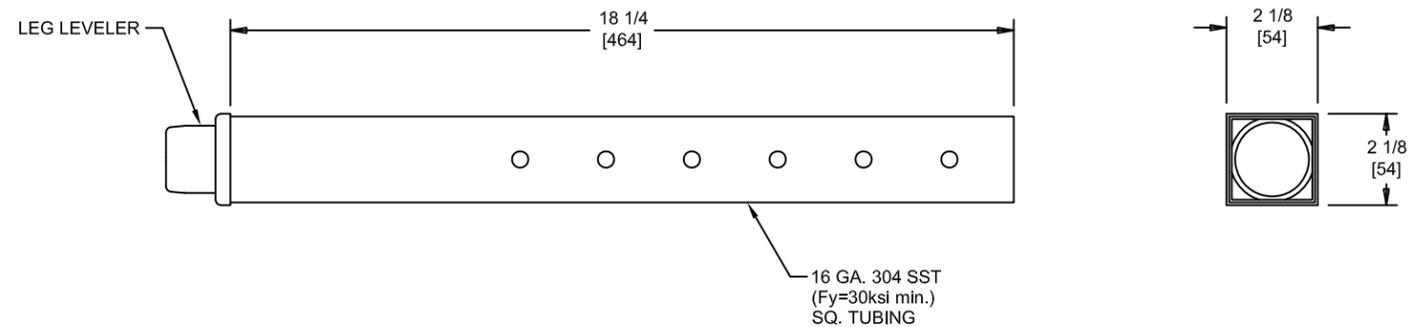
NOTE:
 1. THIS DRAWING IS INFORMATIONAL USE ONLY. ALL BASE STAND COMPONENTS, CONNECTION HARDWARE AND WELDS ARE PROVIDED BY MANUFACTURER.
 03/03/2016

**COMPOUNDING ISOLATOR
(WALL MOUNT)
TELESCOPING BASESTAND SEISMIC DETAILS**

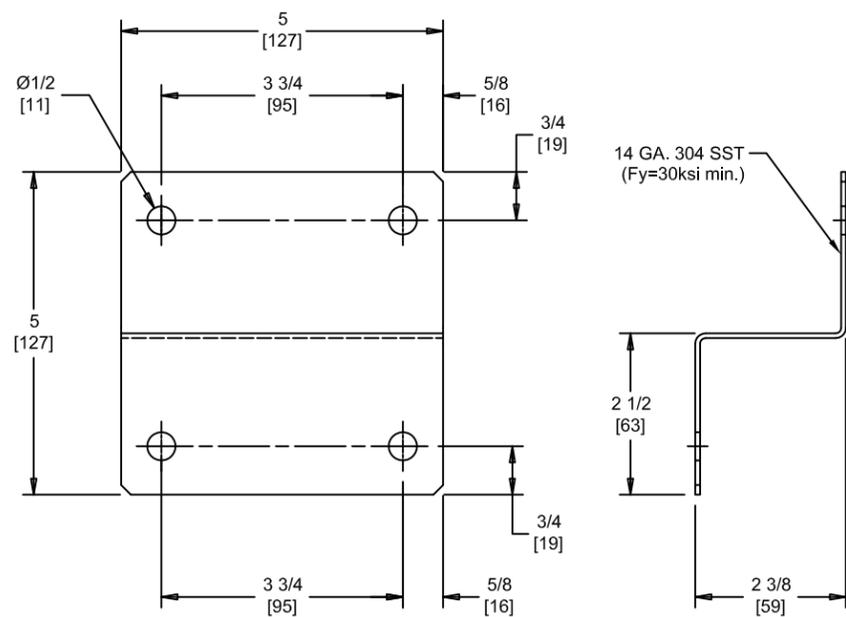
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DRAWING NUMBER		BCD-17201		A	

REFERENCE ONLY

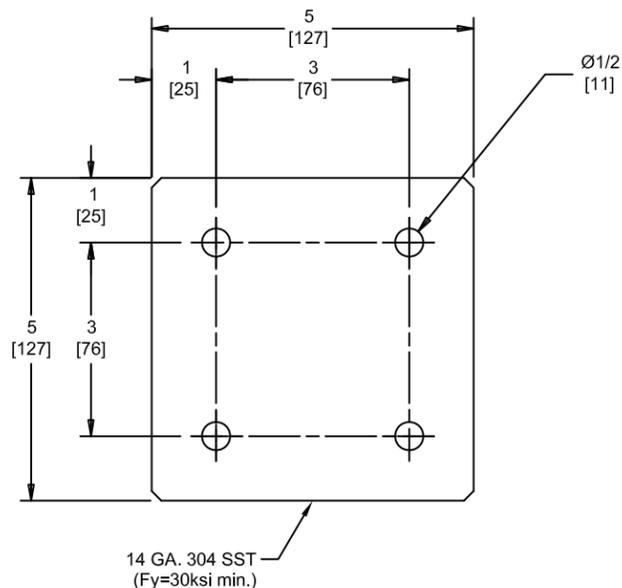
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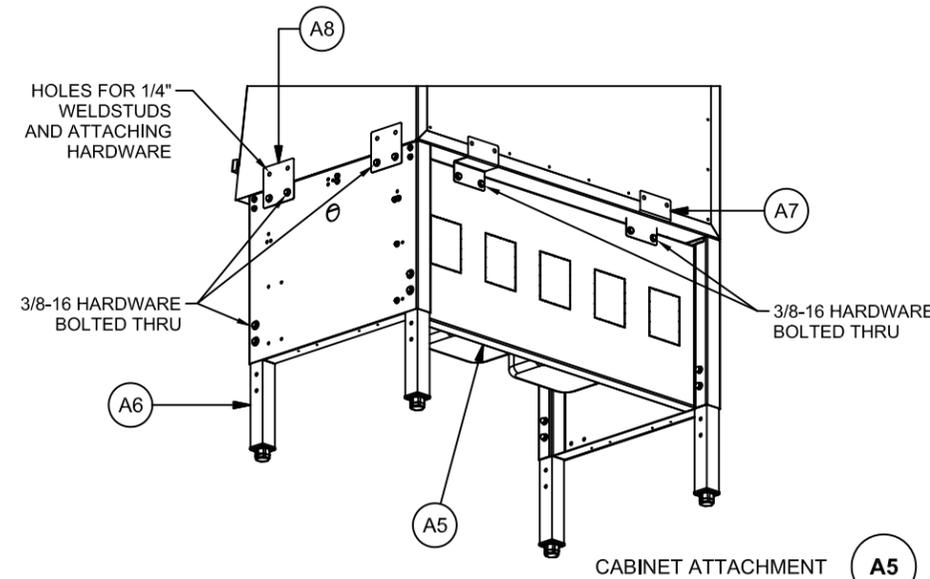
LEG EXTENSION DETAIL "A" **A6**



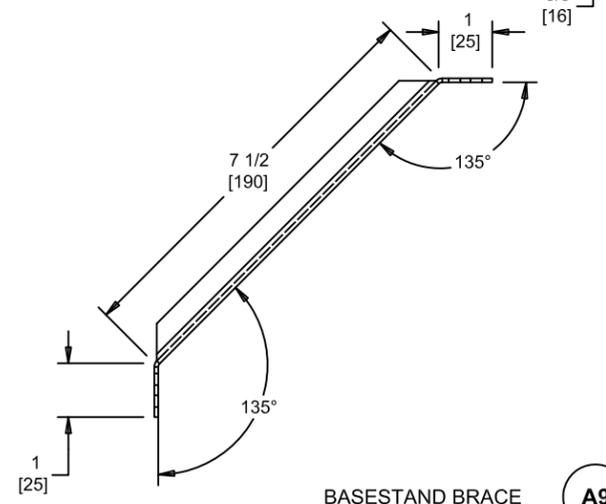
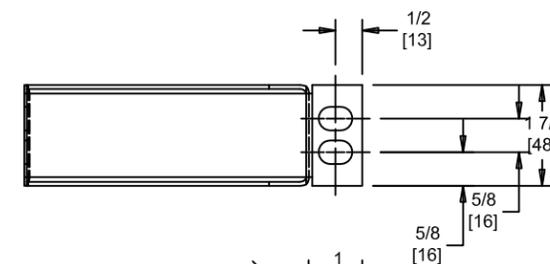
REAR SEISMIC ANGLE **A7**



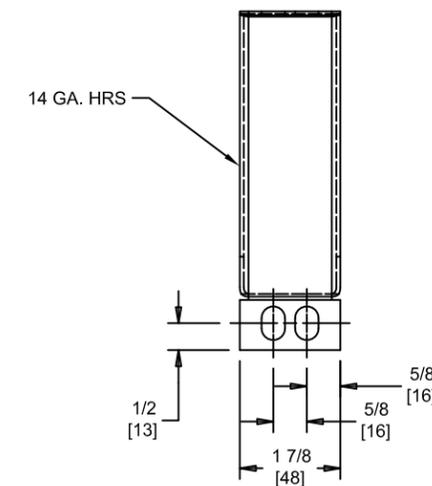
SIDE SEISMIC PLATE **A8**



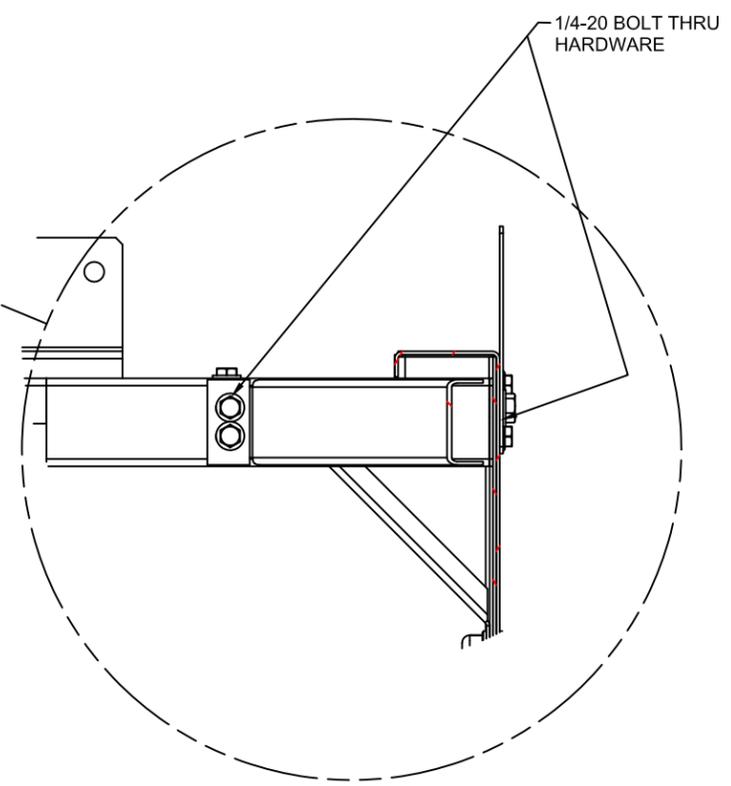
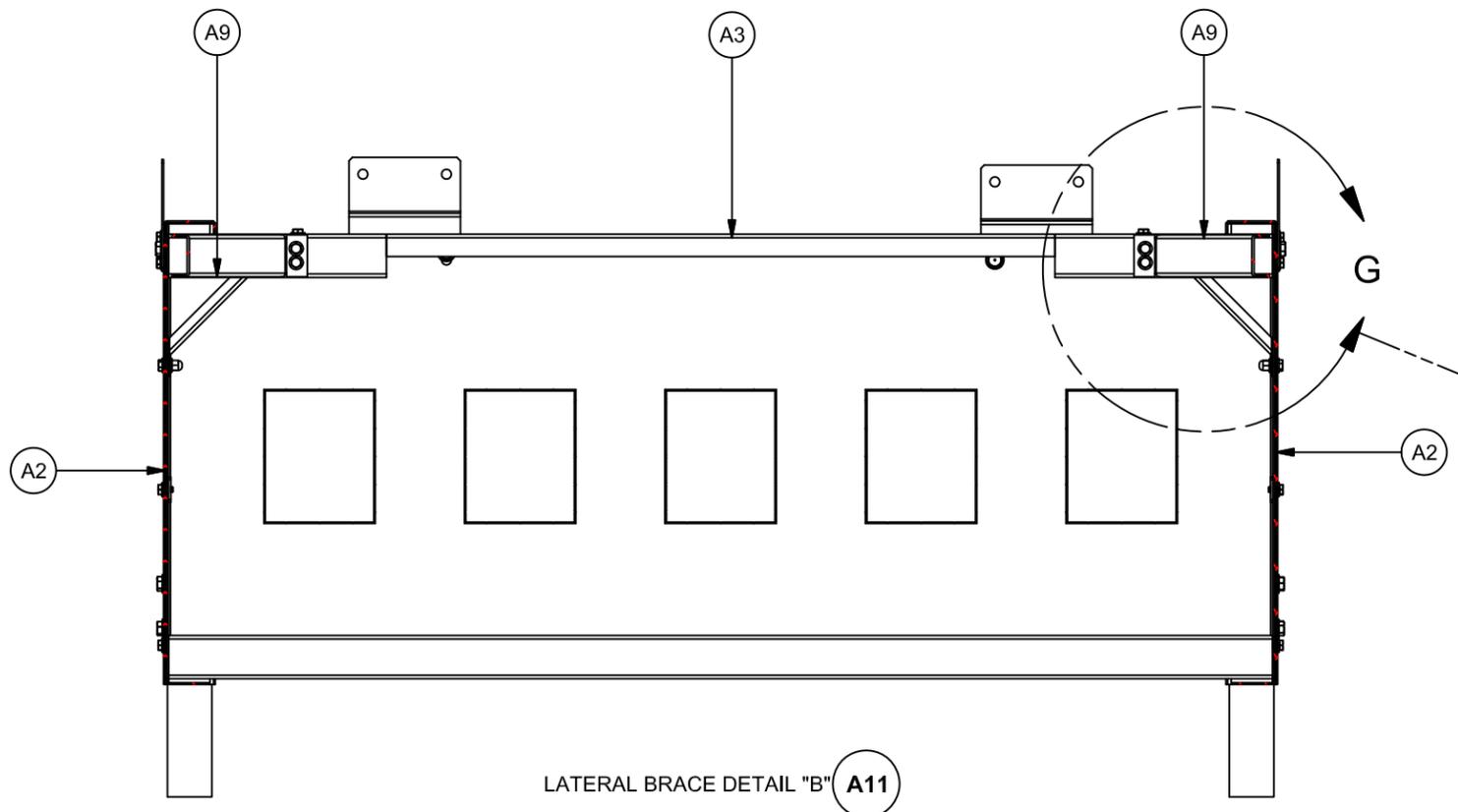
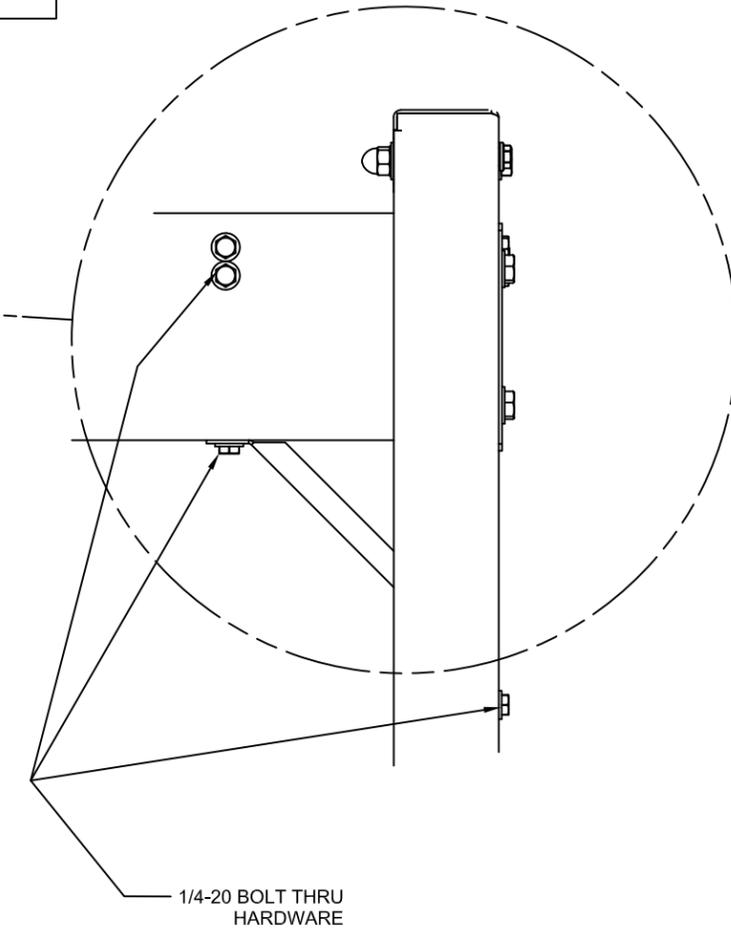
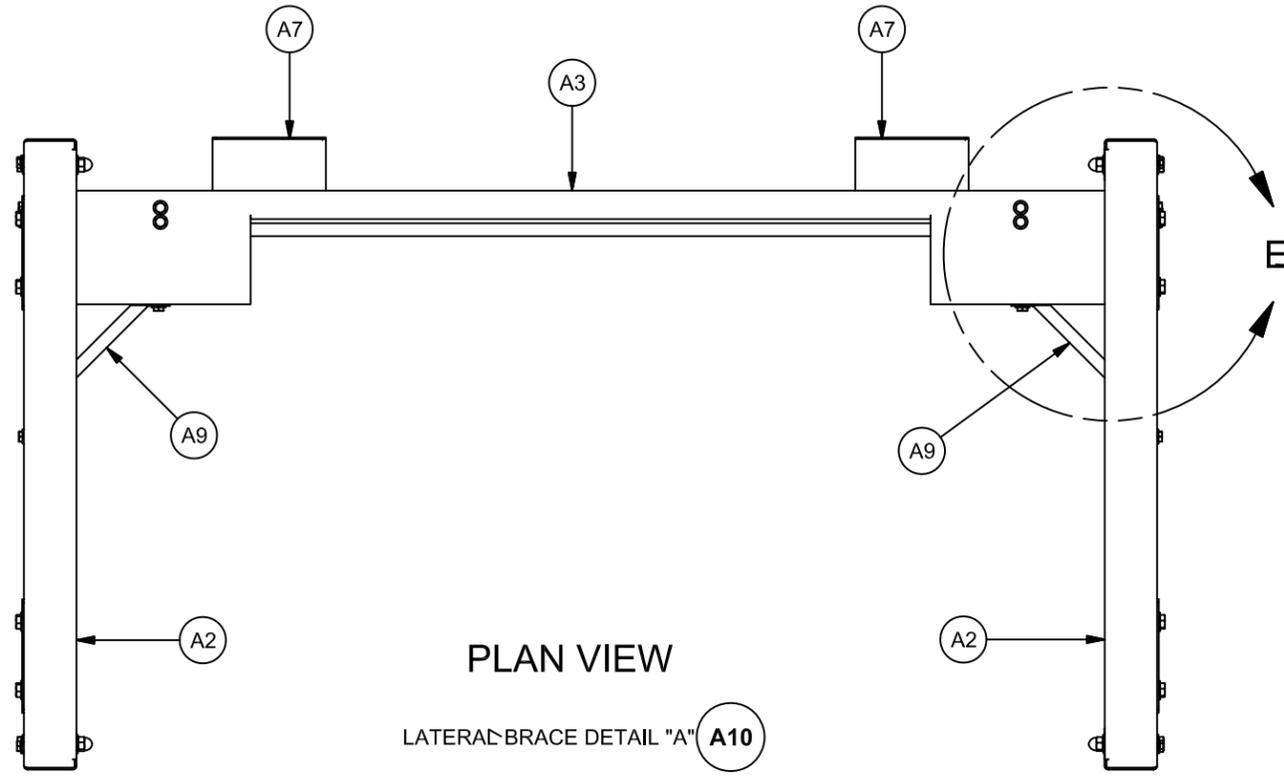
CABINET ATTACHMENT **A5**



BASESTAND BRACE **A9**



COMPOUNDING ISOLATOR (WALL MOUNT) TELESCOPING BASESTAND SEISMIC DETAILS					
DFTM	LS	3/2/16	CHKD	BP	SHEET 5 OF 6
DRAWING NUMBER		BCD-17201		A	



COMPOUNDING ISOLATOR (WALL MOUNT) TELESCOPING BASESTAND SEISMIC DETAILS					
DFTM	LS	1/26/16	CHKD	BP	SHEET 6 OF 6
DRAWING NUMBER		BCD-17201			A