

OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT FACILITIES DEVELOPMENT DIVISION

OFFICE USE ONLY APPLICATION FOR OSHPD PREAPPROVAL OF MANUFACTURER'S CERTIFICATION (OPM) **APPLICATION #:** OPM-0128-13 **OSHPD Preapproval of Manufacturer's Certification (OPM)** Type: ⊠ New ☐ Renewal ☐ Update to Pre-CBC 2013 OPA Number: OPA-2260-07 **Manufacturer Information** Manufacturer: Knoll Inc. Manufacturer's Technical Representative: Michael Kraynak Mailing Address: 1235 Water St., East Greenville, PA 18041 Telephone: (215) 679- 1217 Email: | mkraynak@knoll.com **Product Information** Product Name: Knoll Morrison Partitions and Knoll Calibre File Cabinets Product Type: Workstations with partitions (64 inch and 80 inch heights) and file cabinets. Product Model Number: Morrison Panels: MP2(64,80)(18,24,30,36,42,48,60); Calibre File Cabinets: C2F64(30,36,42) General Description: Floor mounted workstations with partitions and file cabinets. Workstations are anchored to the floor in specific locations, shown in plan. The file cabinets are also anchored to the floor in specific locations shown in plan. The anchor type used depends on substrate (concrete slab on grade, elevated slab, concrete over metal deck). **Applicant Information** Applicant Company Name: Knoll Inc. Contact Person: Michael Kraynak Mailing Address: 1235 Water St.; East Greenville, PA 18041 Telephone: (215) 679- 1217 Email: mkraynak@knoll.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: Michael Kraynak Whichel S. Manch Date: May 10, 2013

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

14/1/M/M



STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY OSH-FD-700 (REV 1/24/13)

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Title: Manager, Product Development

Knoll Inc.

Company Name:



OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT FACILITIES DEVELOPMENT DIVISION

Registered Design Professional Preparing Engineering Recommendations						
Company Miyamoto International Inc. Name:						
Name: Bob Glasgow California License Number: S4567						
Mailing Address: 1450 Halyard Drive, Suite One; West Sacramento, CA 95691						
Telephone: (916) 373-1995 ext. 814 Email: bglasgow@miyamotointernational.com						
OSHPD Special Seismic Certification Preapproval (OSP)						
 Special Seismic Certification is preapproved under OSP- (Separate application for OSP is required) Special Seismic Certification is no preapproved 						
Certification Method(s)						
☐ Testing in accordance with: ☐ ICC-ES AC156 ☐ FM 1950-10 ☐ Other* (Please Specify):						
*Use of test 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						
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: 06/23/2015 Print Name: William Staehlin Title: SSE Condition of Approval (if applicable):						

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KNOLL MORRISON PARTITIONS & KNOLL CALIBRE FILE CABINETS

OSHPD PREAPPROVAL OF MANUFACTURER'S CERTIFICATION (OPM-0128-13)

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KNOLL MORRISON PARTITION & KNOLL CALIBRE FILE CABINET SEISMIC SUPPORTS & ATTACHMENTS

SHEET 1 OF 46

GENERAL NOTES:

- 1. THIS OSHPD PREAPPROVAL OF MANUFACTURER'S CERTIFICATION (OPM) IS BASED ON THE 2013 CALIFORNIA BUILDING CODE (CBC). THE DEMAND (DESIGN FORCES) FOR USE WITH THIS OPM SHALL BE BASED ON THE CBC 2013.
- 2. EQUIPMENT TYPE: MANUFACTURED PARTITIONS (MORRISON™) & FILE CABINETS (CALIBRE™)
- 3. EQUIPMENT MANUFACTURER: KNOLL, INC EAST GREENVILLE, PA
- 4. FORCES ARE PER ASCE 7-10. SECTION 13.3.1. FOR CONDITIONS WHERE z/h = 0 AND $0 < z/h \le 1.0$:

$$S_{DS} = 2.5$$
 $\alpha_P = 1.0$ $R_P = 2.5$ $I_P = 1.5$ $\Omega_O = 2.5$

5. MINIMUM SUBSTRATE REQUIREMENTS FOR ANCHORAGE ARE AS FOLLOWS:

SLAB ON GRADE:
$$t=4$$
" MIN @ PARTITIONS AND 5" MIN @ CABINETS $f'c=3000$ PSI MIN CONCRETE OVER METAL DECK:

- $2\ 1/2"$ SAND LWC (f'c = 3000 PSI MIN) OVER 2W OR 3W (2" OR 3") METAL DECK MIN NO EXCEPTIONS TO MINIMUM REQUIREMENTS. REFERENCE PAGES 33, 34, AND 41 TO 46 FOR ATTACHMENT DETAILS
- THIS PRE-APPROVAL IS APPLICABLE TO ANY LOCATION IN THE STATE OF CALIFORNIA AND AT ANY HEIGHT WITHIN THE BUILDING.
- 7. THIS PRE-APPROVAL COVERS THE SUPPORTS & ATTACHMENTS OF THE UNIT TO THE STRUCTURE FOR THE UNITS AND CONFIGURATIONS SHOWN ONLY. CODE

RESPONSIBILITES OF THE STRUCTURAL ENGINEER OF RECORD:

- 1. FOR SITE SPECIFIC INSTALLATION, VERIFY: 8 13
 - a. THE ADEQUACY OF NEW OR EXISTING STRUCTURE TO RESIST THE FORCES AND WEIGHT SPECIFIED FOR EACH EQUIPMENT IN ADDITION TO ALL OTHER LOADS.
 - b. THE ANCHORSYARE LOCATED AT AN ADEQUATE DISTANCE FROM ANY SLAB EDGES OR OPENINGS.
 - c. THE ANCHORS ARE AT AN ADEQUATE DISTANCE FROM ANY NEW OR EXISTING ANCHORS. DATE: 06/23/2015
 - d. PROVIDE AND DESIGN ANY SUPPLEMENTARY MEMBERS AS REQUIRED.
 - e. THE INSTALLATION IS IN CONFORMANCE WITH THE 2013 CBC AND WITH DETAILS SHOWN ON THIS PRE—APPROVAL.
 - f. THE EQUIPMENT'S ACTUAL WEIGHT, CENTER OF GRAVITY (C.G.) LOCATION, ANCHOR LOCATIONS, ANCHOR DETAILS AND MATERIAL AND GAGE OF UNIT WHERE ATTACHMENTS ARE MADE AGREE WITH INFORMATION SHOWN ON THIS PRE—APPROVAL.
 - PROVIDE DESIGN FOR ANY SUPPLEMENTARY MEMBERS TO WHICH UNIT IS ATTACHED.
 - h. VERIFY THAT THE PROJECT SPECIFIC VALUES OF S_{DS} & z/h RESULT IN SEISMIC FORCES (E_h , E_v) THAT DO NOT EXCEED VALUES ON THE DETAILS.



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KNOLL MORRISON PARTITION & KNOLL CALIBRE FILE CABINET SEISMIC SUPPORTS & ATTACHMENTS

SHEET 2 OF 46

POST-INSTALLED ANCHORS NOTES:

- 1. TESTING OF POST INSTALLED ANCHORS IS PER CBC 2013 SECTION 1913A.7.
- 2. APPLY PROOF TEST LOADS TO WEDGE ANCHORS WITHOUT REMOVING THE NUT IF POSSIBLE. IF NOT, REMOVE NUT & INSTALL A THREADED COUPLER TO THE SAME TIGHTNESS OF THE ORIGINAL NUT USING A TORQUE WRENCH & APPLY LOAD.
- 3. REACTION LOADS FROM TEST FIXTURES MAY BE APPLIED CLOSE TO THE ANCHOR BEING TESTED, PROVIDED THE ANCHOR IS NOT RESTRAINED FROM WITHDRAWING BY THE FIXTURE(S).
- 4. TEST EQUIPMENT IS TO BE CALIBRATED BY AN APPROVED TESTING LABORATORY IN ACCORDANCE WITH STANDARD RECOGNIZED PROCEDURES.
- 5. THE FOLLOWING CRITERIA APPLY FOR THE ACCEPTANCE OF INSTALLED ANCHORS:
 - A. HYDRAULIC RAM METHOD: WEDGE ANCHORS TESTED WITH A HYDRAULIC JACK OR SPRING LOADED DEVICES SHALL MAINTAIN THE TEST LOAD FOR A MINIMUM OF 15 SECONDS AND SHALL EXHIBIT NO DISCERNABLE MOVEMENT DURING THE TENSION TEST, E.G., AS EVIDENCED BY LOOSENING OF THE WASHER UNDER THE NUT.
 - B. TORQUE WRENCH METHOD: WEDGE ANCHORS TESTED WITH A CALIBRATED TORQUE WRENCH MUST ATTAIN THE SPECIFIED TORQUE WITHIN 1/2 TURN OF NUT FOR ALL ANCHOR DIAMETERS, EXCEPT FOR SLEEVE TYPE ANCHORS. 1/4 TURN OF THE NUT MAY BE USED FOR 3/8"Ø SLEEVE TYPE ANCHORS ONLY.
- 6. WHEN INSTALLING DRILLED-IN ANCHORS IN EXISTING NON-PRESTRESSED REINFORCED CONCRETE, USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE EXISTING REINFORCING BARS. WHEN INSTALLING THEM INTO EXISTING PRESTRESSED CONCRETE (PRE- OR POST- TENSIONED) LOCATE THE PRESTRESSED TENDONS BY USING A NON-DESTRUCTIVE METHOD PRIOR TO INSTALLATION. EXERCISE EXTREME CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE TENDONS DURING INSTALLATION. MAINTAIN A MINIMUM CLEARANCE OF ONE INCH BETWEEN THE REINFORCEMENT AND THE DRILLED-IN ANCHOR AND/OR PIN.
- 7. ALL TESTS SHALL BE PERFORMED IN THE PRESENCE OF THE SPECIAL INSPECTOR/INSPECTOR OF RECORD. A REPORT OF THESE RESULTS SHALL BE SUBMITTED TO OSHPD.
- 8. AFTER A MINIMUM OF 24 HOURS HAVE ELAPSED SINCE INSTALLATION, DIRECT PULL TENSION TEST (OR APPLY MFR'S INSTALLATION TORQUE PER APPLICABLE ICC—ES ESR) 50% OF THE ANCHORS.
- 9. IF ANCHORS FAIL TESTING, TEST ALL ANCHORS OF THE SAME TYPE INSTALLED BY THE SAME TRADE AND NOT PREVIOUSLY TESTED UNTIL TWENTY (20) CONSECUTIVE ANCHORS PASS, THEN RESUME INITIAL TESTING FREQUENCY.
- 10. TEST LOADS FOR ANCHORS IN NORMAL OR SAND LIGHTWEIGHT CONCRETE:



ANCHOR	DIAMETER (in)	TORQUE (FT-LBS)	h _{ef} (in)	MIN EDGE DIST (in)	ICC-ES ESR NO.
HILTI KB-TZ	3/8	25	2	12	1917
HILTI KB-TZ	3/4	110	3 3/4	12	1917

ANCHOR	DIAMETER (in)	TENSION TEST LOAD (LBS)	h _{eff} (in)	MIN EDGE DIST (in)
1/2"ø CAST IN PLACE GROUTED ANCHOR	3/4	4035	3 3/4	12

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KNOLL MORRISON PARTITION & KNOLL CALIBRE FILE CABINET SEISMIC SUPPORTS & ATTACHMENTS

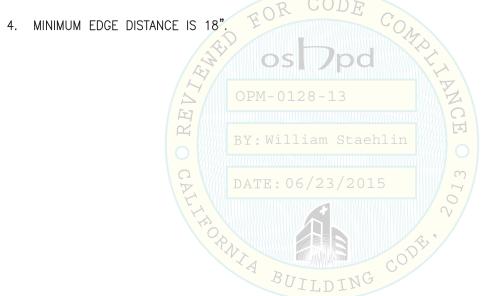
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POST-INSTALLED ANCHORS NOTES, CONTINUED:

11. EXPANSION ANCHORS SHALL BE CARBON STEEL HILTI KB-TZ COMPLYING WITH ICC ESR-1917 DATED MAY, 2013.

BOLTS THROUGH CONCRETE ON METAL DECK NOTES:

- 1. BOLTS SHALL BE TORQUED BY 3/4 TURN OF THE NUTS AFTER THE SNUG TIGHT (THE SNUG-TIGHT CONDITION IS DEFINED AS THE TIGHTNESS REQUIRED TO BRING THE CONNECTED PLIES INTO FIRM CONTACT) CONDITION IS ACHIEVED, UNLESS OTHERWISE NOTED.
- 2. THROUGH BOLT HOLES SHALL BE 1/16" LARGER THAN BOLT SIZE (HOLE SIZE = BOLT SIZE + 1/16) FOR CONCRETE.
- 3. THROUGH—BOLTS IN CONCRETE SHALL RECEIVE SPECIAL INSPECTION AND TESTING (THROUGH BOLTS WITH STEEL TO STEEL CONNECTION IN TENSION DO NOT REQUIRE TENSION TESTING) IN ACCORDANCE WITH REQUIREMENTS FOR POST—INSTALLED ANCHORS.







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SUMMARY OF WEIGHTS FOR KNOLL MORRISON WORKSTATION COMPONENTS:

	64" KNOLL N	MORRISON WO	ON WORKSTATIONS 80" KNOLL MORRISON WORKSTATI		RKSTATIONS		
	ITEM	DL (LBS)	LL		ITEM	DL (LBS)	LL
64" FULL HT PANEL	24" WIDE	25.0	_		24" WIDE	31.3	_
	36" WIDE	37.9	-	" FULL	30" WIDE	39.5	_
	48" WIDE	50.0	-	80°" HT F	48" WIDE	62.5	_
42" PANEL USED IN CONJUNCTION W/ 22" WINDOW	24" WIDE	17.2	_	USED CTION NDOW	24" WIDE	19.7	_
	30" WIDE	20.4	_	⊣≤≥	30" WIDE	23.3	_
	36" WIDE	23.5	_	PANEL CONJUNG 32" WIN	36" WIDE	26.9	-
	48" WIDE	31.2	EOR	2 0 ±8 ₹ ×C	48" WIDE	35.7	_
22" WINDOW USED IN CONJUNCTION // 42" PANEL	24" WIDE	10.7		N NE	24" WIDE	15.5	_
	30" WIDE	14.0	QSI	32" WINDOW USED IN CONJUNCTION V/ 48" PANEL	30" WIDE	20.3	_
	36" WIDE	17.4	OPM-0128	52" WINDOUSED IN USED IN 48" PAN	36" WIDE	25.3	_
\(\(\)\(\)\(\)\(\)	48" WIDE	22.7		% Co %	48" WIDE	33.0	_
WORK SURFACES	MUI S3624	<u>3</u> 0	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	am Staenii	MUI S3624	30	_
	MUI S4824	40	DATE: 06/	SURFACES	MUI S4824	40	_
	MUI C4872	94			MUI C4872	94	_
	MUI C7248	94		WORK	MUL C7248	94	_
OVERHEAD	RSI M24	13.3	A 66 BILL	OVERHEAD SHELVES	RSI M24	13.3	66 ¹
	RSI M48	21.3	132 1	OVER SHEI	RSI M48	21.3	132 ¹



NOTES:
1. LL BASED ON CBC TABLE 1607A.1 NOTE N.



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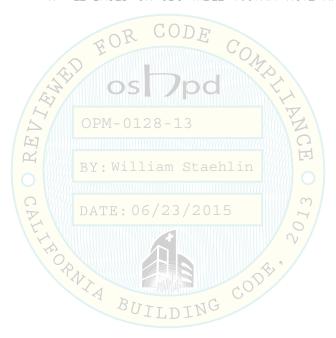
KNOLL MORRISON PARTITION & KNOLL CALIBRE FILE CABINET SEISMIC SUPPORTS & ATTACHMENTS

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SUMMARY OF WEIGHTS FOR KNOLL CALIBRE FILE CABINETS:

CALIBRE™ FILE CABINETS					
ITEM	DL (LBS)	LL ¹ (LBS)			
30" WIDE 5 SHELVES	207	461			
36" WIDE 5 SHELVES	229	564			
42" WIDE 5 SHELVES	250	666			

NOTES:
1. LL BASED ON CBC TABLE 1607A.1 NOTE N.





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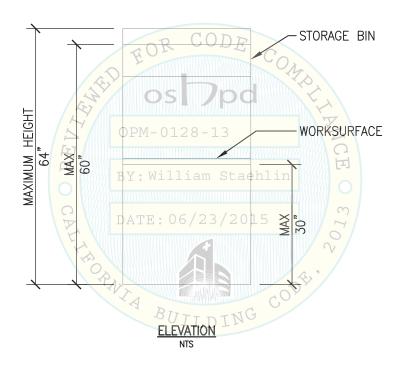
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KNOLL MORRISON PARTITION & KNOLL CALIBRE FILE CABINET SEISMIC SUPPORTS & ATTACHMENTS

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THE FOLLOWING PARTITION CONFIGURATIONS REPRESENT COMMON ARRANGEMENTS OF THE KNOLL MORRISON PARTITION SYSTEM. PARTITIONS INSTALLED IN ACCORDANCE WITH THIS PRE—APPROVAL SHALL COMPLY WITH THE FOLLOWING REQUIREMENTS:

- 1. PARTITIONS SHALL NOT BE INSTALLED IN A ROW TO FORM CORRIDOR OR EXIT WAY.
- 2. USE OF THESE PARTITIONS IS LIMITED TO NON-PATIENT, ADMINISTRATIVE, OFFICE AREAS.
- 3. THIS OPM APPLIES ONLY TO THE MODELS AND CONFIGURATIONS SHOWN IN THIS OPM
- 4. PARTITION CONFIGURATIONS CONSIST OF:
 - PARTITION WALLS
 - WORK SURFACES
 - OVERHEAD STORAGE BINS
- 5. MAXIMUM PANEL HEIGHT AND STORAGE BIN INSTALLATION HEIGHT IS SHOWN BELOW.



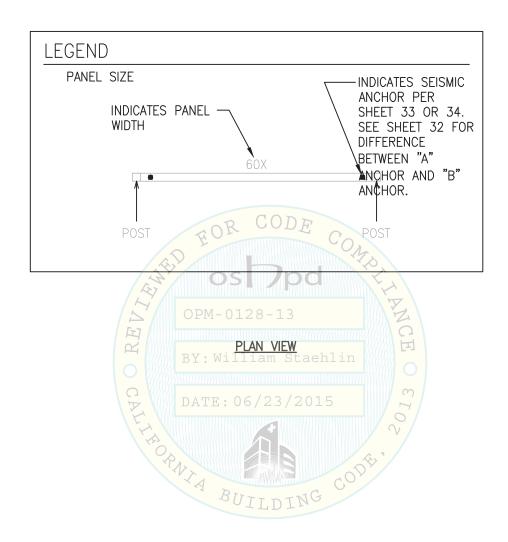


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KNOLL MORRISON PARTITION & KNOLL CALIBRE FILE CABINET SEISMIC SUPPORTS & ATTACHMENTS

SHEET 7 OF 46



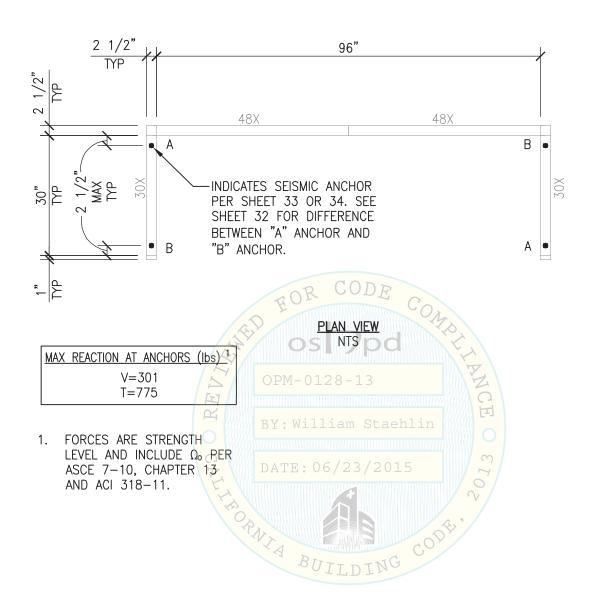


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KNOLL MORRISON PARTITION & KNOLL CALIBRE FILE CABINET SEISMIC SUPPORTS & ATTACHMENTS

SHEET 8 OF 46





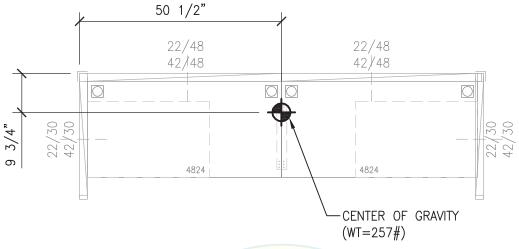
SEISMIC ANCHOR LOCATIONS WORKSTATION 2A, 64" HEIGHT

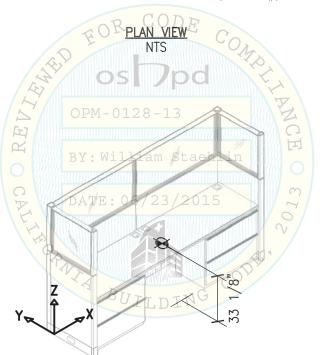


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ISOMETRIC VIEW NTS

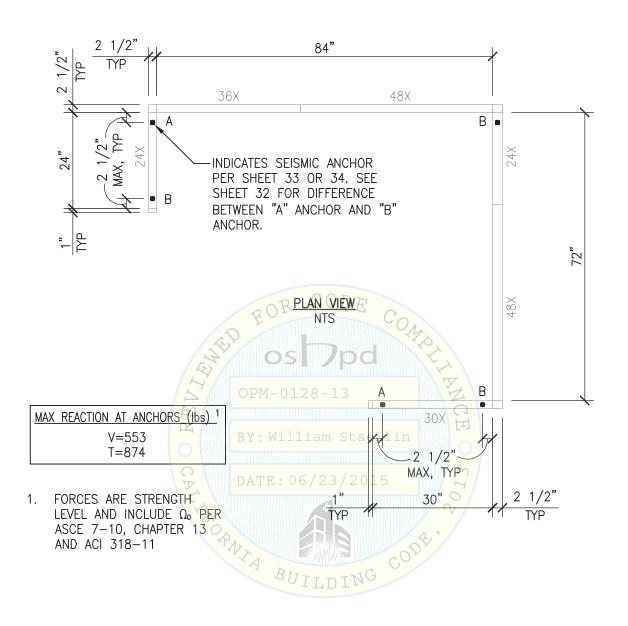
WEIGHT AND CENTER OF GRAVITY WORKSTATION 2A, 64" HEIGHT

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SHEET 10 OF 46





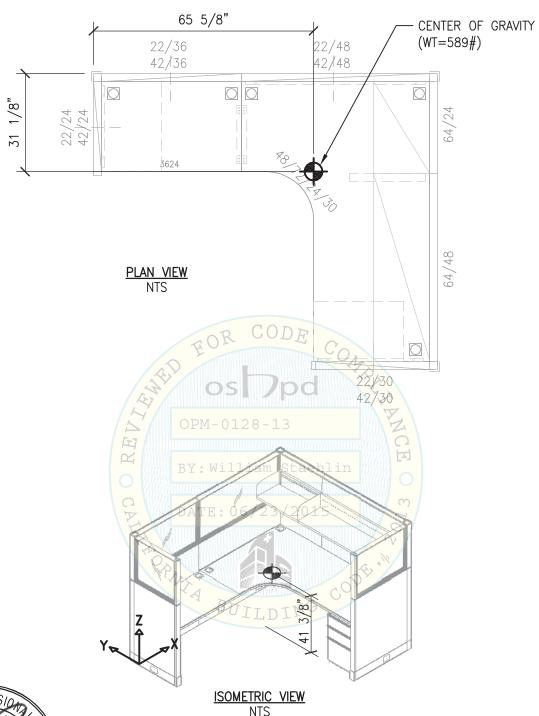
SEISMIC ANCHOR LOCATIONS WORKSTATION 1A, POD 1, 64" HEIGHT



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KNOLL MORRISON PARTITION & KNOLL CALIBRE FILE CABINET SEISMIC SUPPORTS & ATTACHMENTS

SHEET 11 OF 46





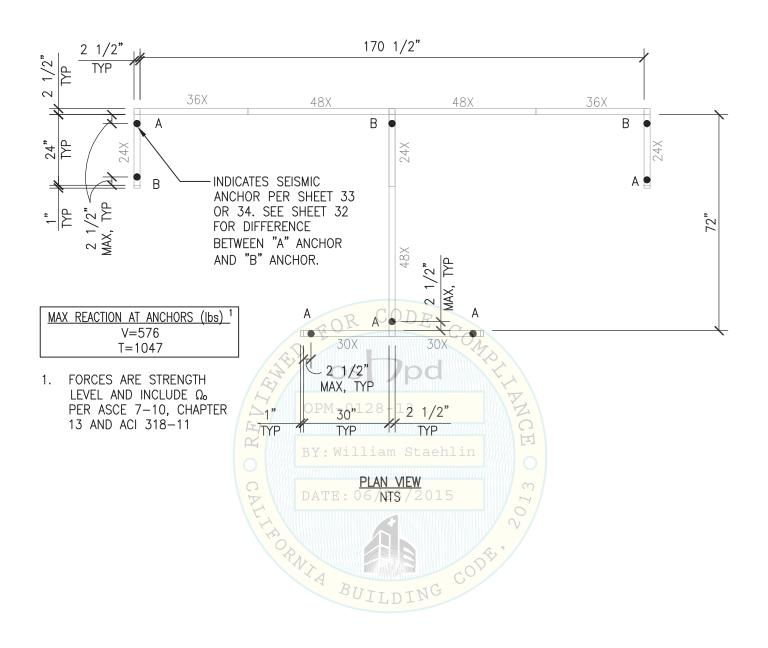
WEIGHT AND CENTER OF GRAVITY
WORKSTATION 1A, POD 1, 64" HEIGHT

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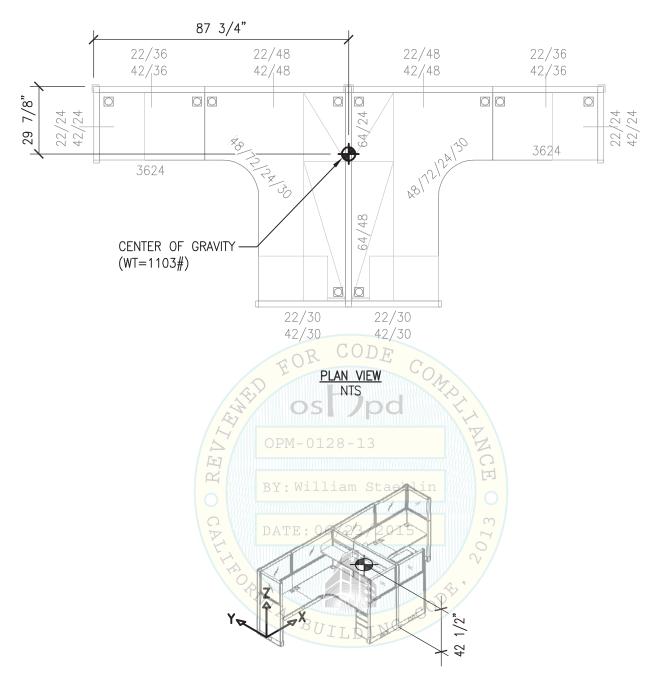
SEISMIC ANCHOR LOCATIONS WORKSTATION 1A, POD 2, 64" HEIGHT



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KNOLL MORRISON PARTITION & KNOLL CALIBRE FILE CABINET SEISMIC SUPPORTS & ATTACHMENTS

SHEET 13 OF 46





WEIGHT AND CENTER OF GRAVITY WORKSTATION 1A, POD 2, 64" HEIGHT

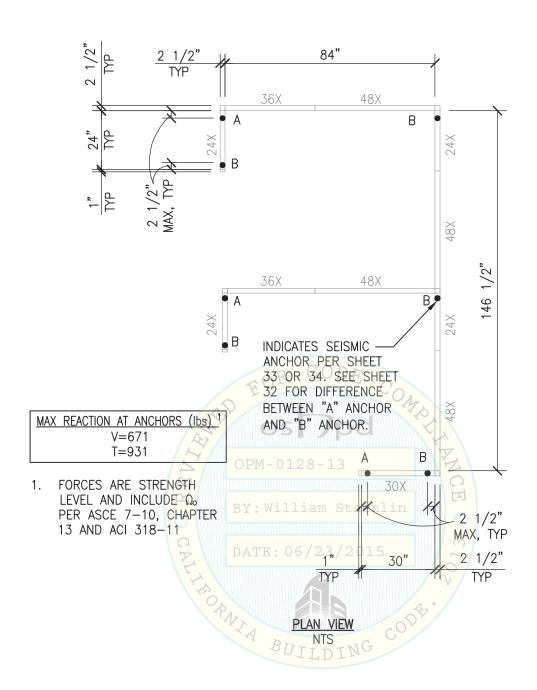
ISOMETRIC VIEW



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KNOLL MORRISON PARTITION & KNOLL CALIBRE FILE CABINET SEISMIC SUPPORTS & ATTACHMENTS

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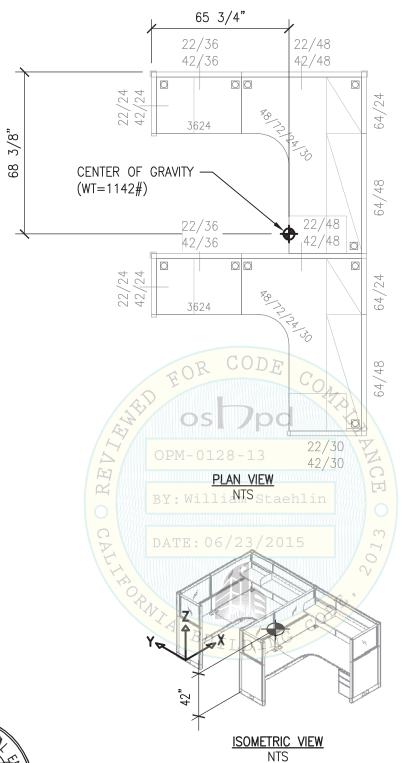
SEISMIC ANCHOR LOCATIONS WORKSTATION 1A, POD 3, 64" HEIGHT



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KNOLL MORRISON PARTITION & KNOLL CALIBRE FILE CABINET SEISMIC SUPPORTS & ATTACHMENTS

SHEET 15 OF 46





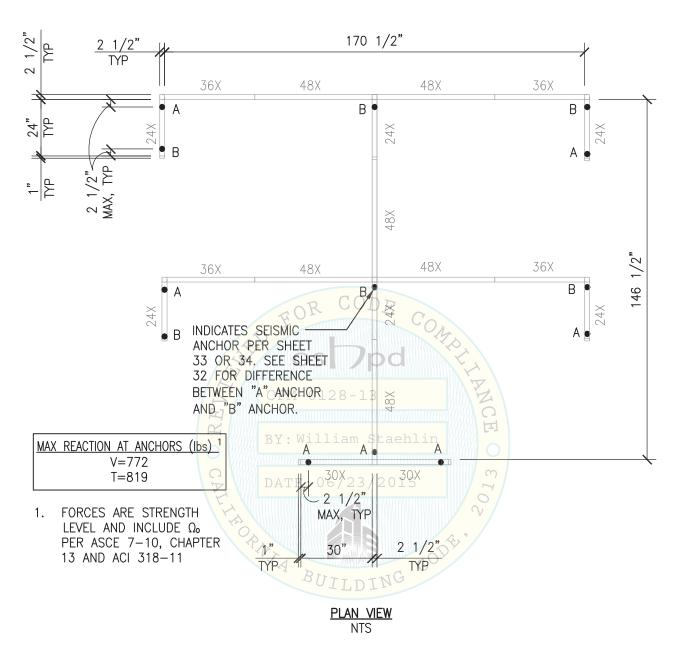
WEIGHT AND CENTER OF GRAVITY
WORKSTATION 1A, POD 3, 64" HEIGHT

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SHEET 16 OF 46





SEISMIC ANCHOR LOCATIONS WORKSTATION 1A, POD 4, 64" HEIGHT



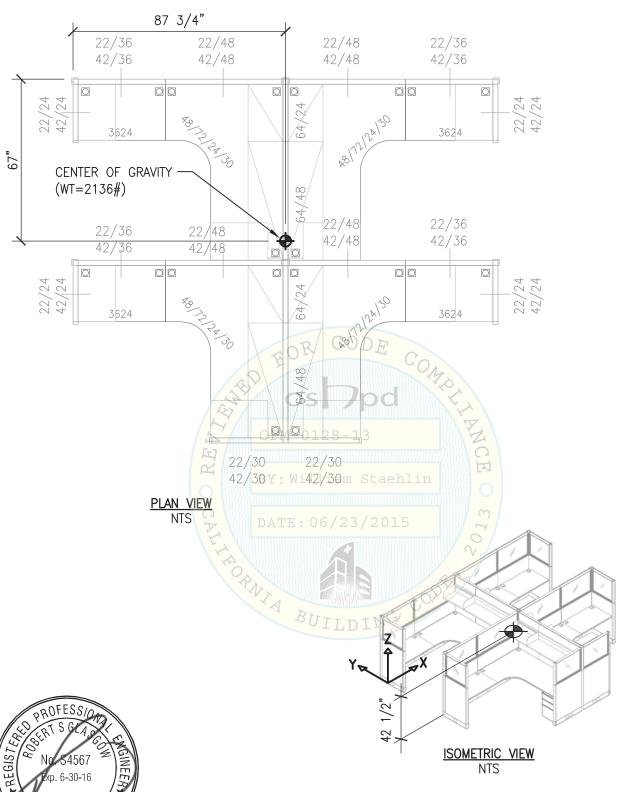
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WEIGHT AND CENTER OF GRAVITY
WORKSTATION 1A, POD 4, 64" HEIGHT



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SHEET 18 OF 46







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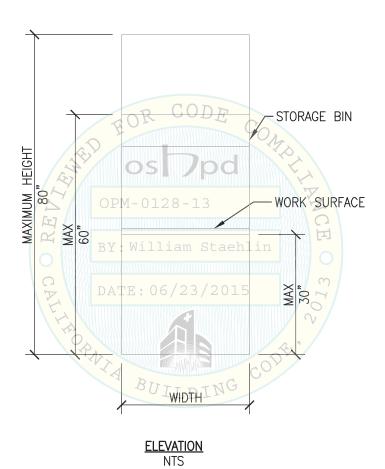
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KNOLL MORRISON PARTITION & KNOLL CALIBRE FILE CABINET SEISMIC SUPPORTS & ATTACHMENTS

SHEET 19 OF 46

SYSTEM. PARTITIONS INSTALLED IN ACCORDANCE WITH THIS PRE-APPROVAL SHALL COMPLY WITH THE FOLLOWING REQUIREMENTS:

- PARTITIONS SHALL NOT BE INSTALLED IN A ROW TO FORM CORRIDOR OR EXIT WAY.
- 2. USE OF THESE PARTITIONS IS LIMITED TO NON-PATIENT, ADMINISTRATIVE, OFFICE AREAS.
- 3. THIS OPM APPLIES ONLY TO THE MODELS AND CONFIGURATIONS SHOWN IN THIS OPM.
- 4. PANEL CONFIGURATIONS CONSIST OF:
 - PARTITION WALLS
 - WORKSURFACES
 - OVERHEAD STORAGE BINS
- 5. MAXIMUM PANEL HEIGHT AND STORAGE BIN INSTALLATION HEIGHT IS SHOWN BELOW.





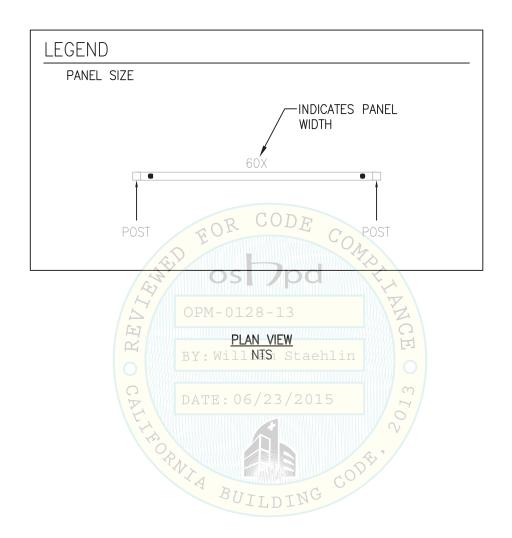
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SHEET 20 OF 46



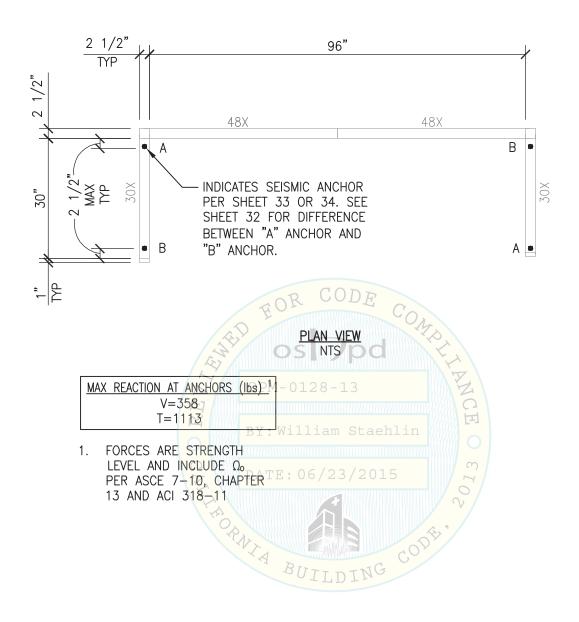


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KNOLL MORRISON PARTITION & KNOLL CALIBRE FILE CABINET SEISMIC SUPPORTS & ATTACHMENTS

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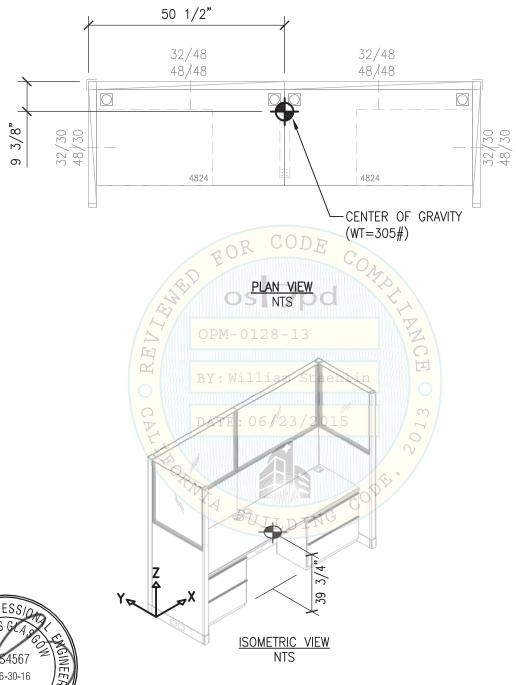
SEISMIC ANCHOR LOCATIONS WORKSTATION 2B, 80" HEIGHT

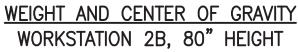


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KNOLL MORRISON PARTITION & KNOLL CALIBRE FILE CABINET SEISMIC SUPPORTS & ATTACHMENTS

SHEET 22 OF 46

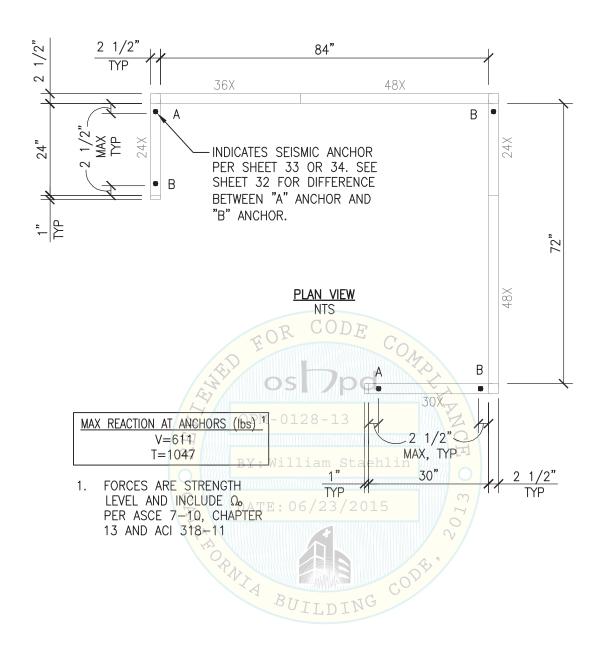






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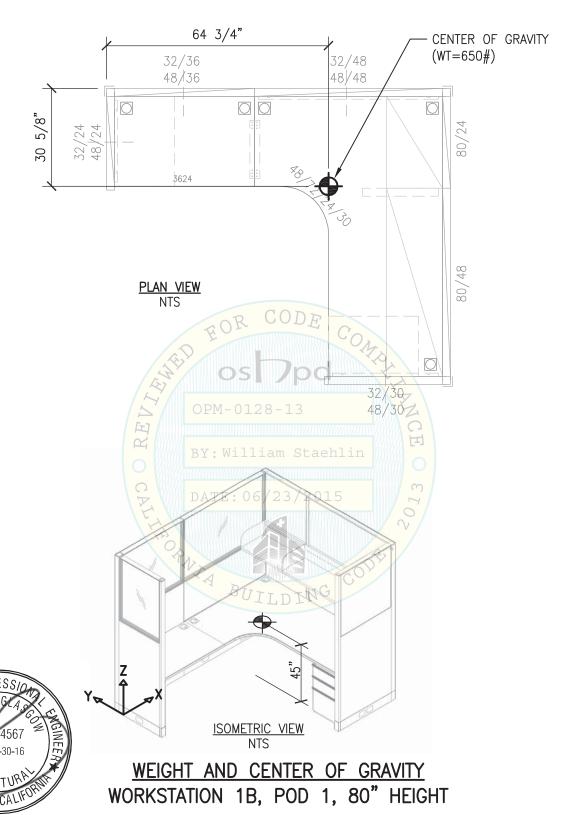
SEISMIC ANCHOR LOCATIONS WORKSTATION 1B, POD 1, 80" HEIGHT



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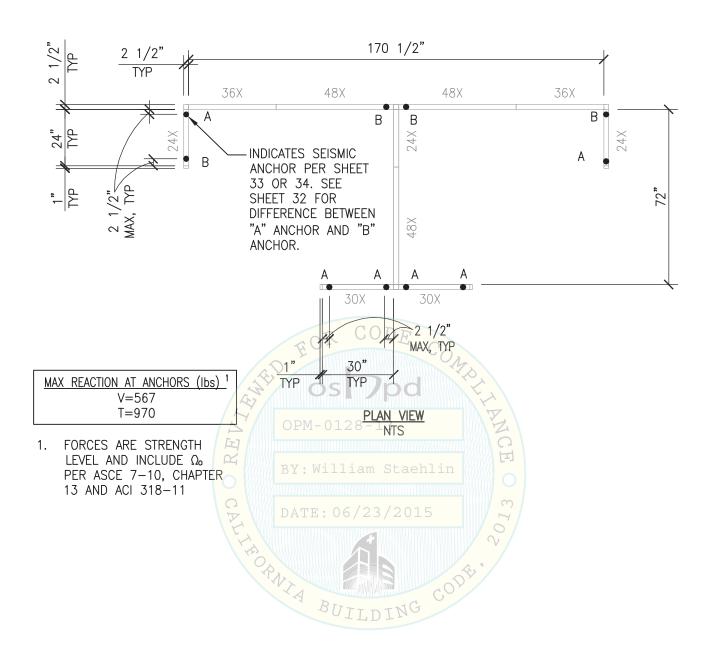
SHEET 24 OF 46



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KNOLL MORRISON PARTITION & KNOLL CALIBRE FILE CABINET SEISMIC SUPPORTS & ATTACHMENTS

SHEET 25 OF 46





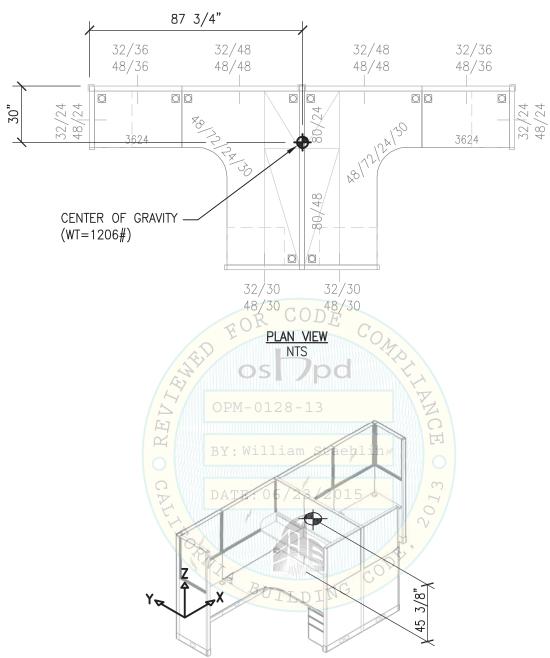
SEISMIC ANCHOR LOCATIONS WORKSTATION 1B, POD 2, 80" HEIGHT



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KNOLL MORRISON PARTITION & KNOLL CALIBRE FILE CABINET SEISMIC SUPPORTS & ATTACHMENTS

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ISOMETRIC VIEW

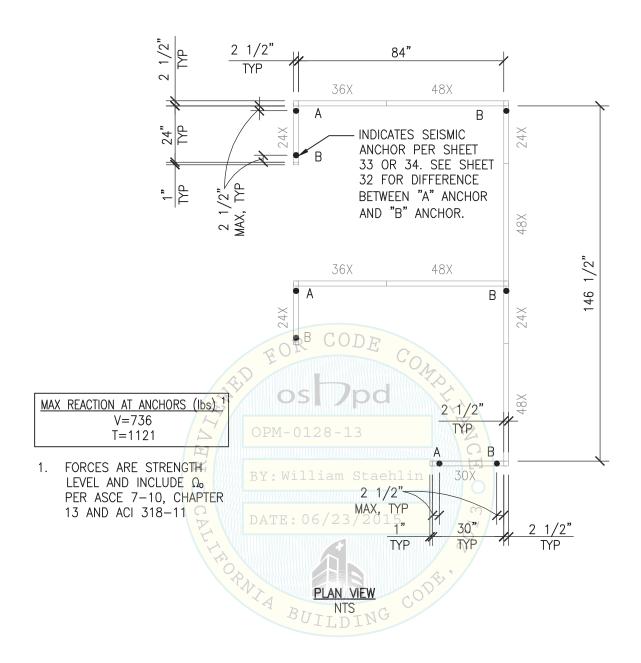
WEIGHT AND CENTER OF GRAVITY
WORKSTATION 1B, POD 2, 80" HEIGHT

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KNOLL MORRISON PARTITION & KNOLL CALIBRE FILE CABINET SEISMIC SUPPORTS & ATTACHMENTS

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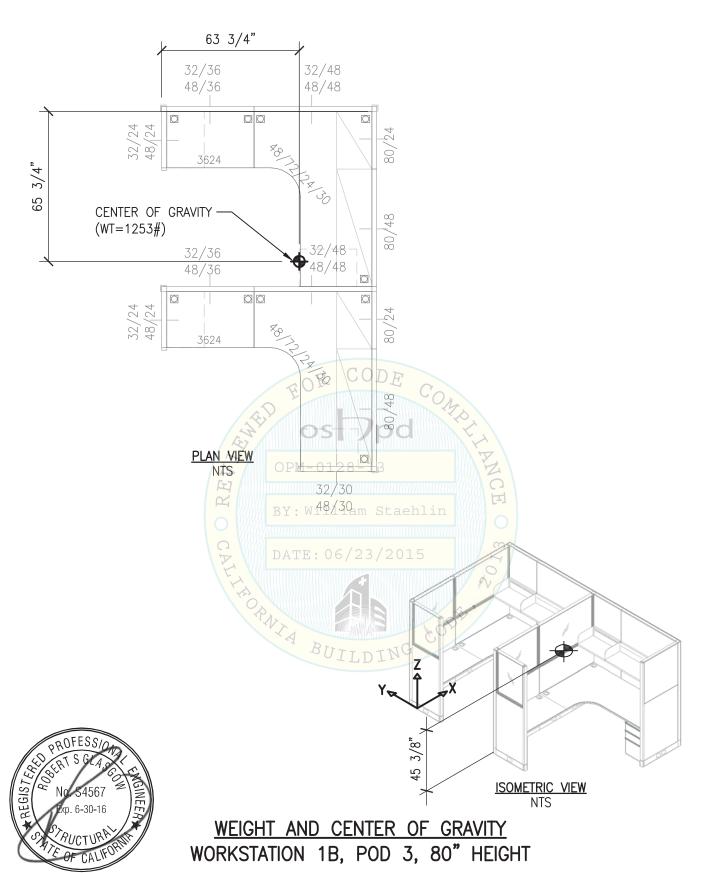
SEISMIC ANCHOR LOCATIONS WORKSTATION 1B, POD 3, 80" HEIGHT



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KNOLL MORRISON PARTITION & KNOLL CALIBRE FILE CABINET SEISMIC SUPPORTS & ATTACHMENTS

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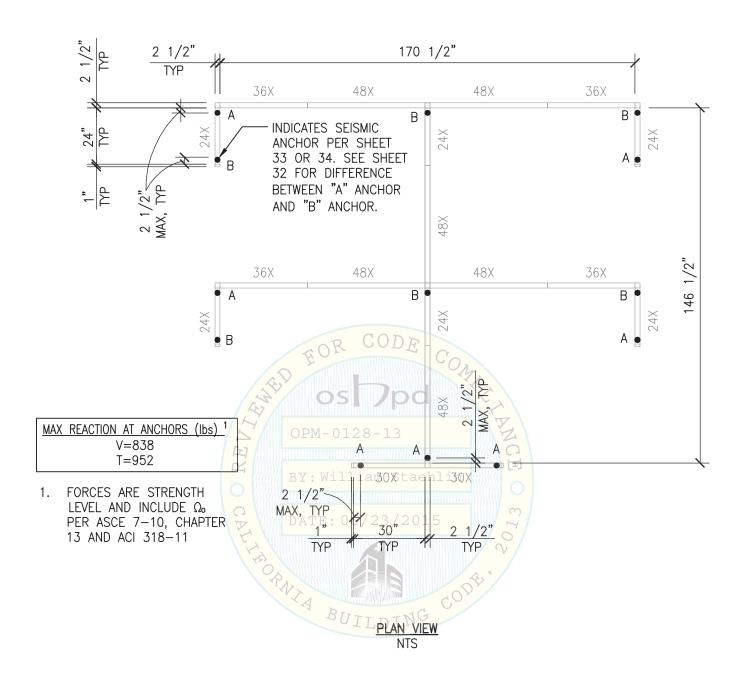




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KNOLL MORRISON PARTITION & KNOLL CALIBRE FILE CABINET SEISMIC SUPPORTS & ATTACHMENTS

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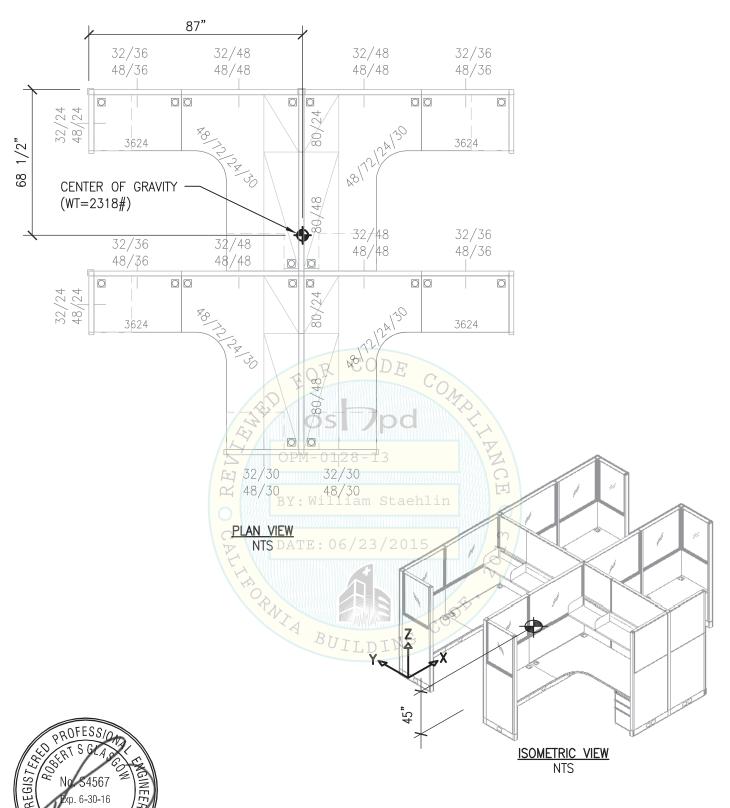
SEISMIC ANCHOR LOCATIONS WORKSTATION 1B, POD 4, 80" HEIGHT



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KNOLL MORRISON PARTITION & KNOLL CALIBRE FILE CABINET SEISMIC SUPPORTS & ATTACHMENTS

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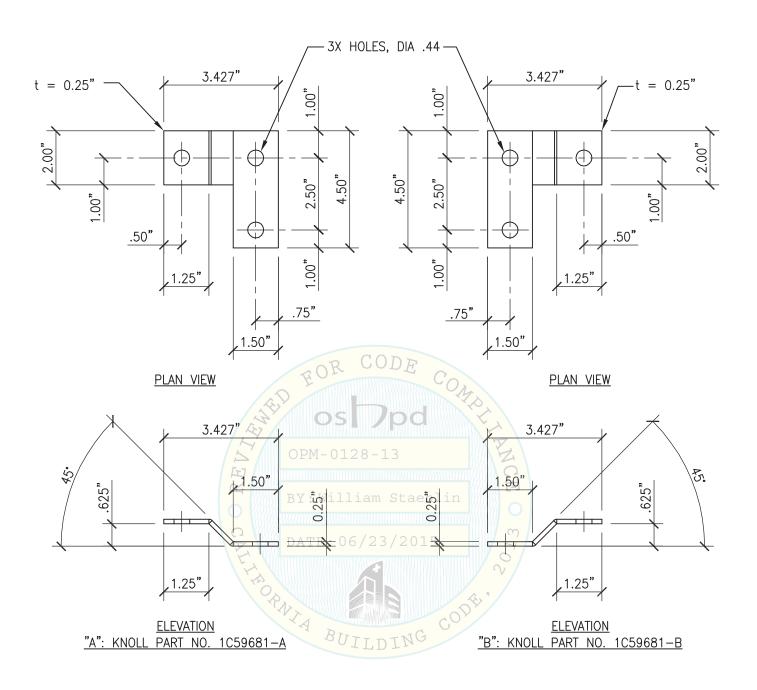
WEIGHT AND CENTER OF GRAVITY
WORKSTATION 1B, POD 4, 80" HEIGHT

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KNOLL MORRISON PARTITION & KNOLL CALIBRE FILE CABINET SEISMIC SUPPORTS & ATTACHMENTS

SHEET 31 OF 46







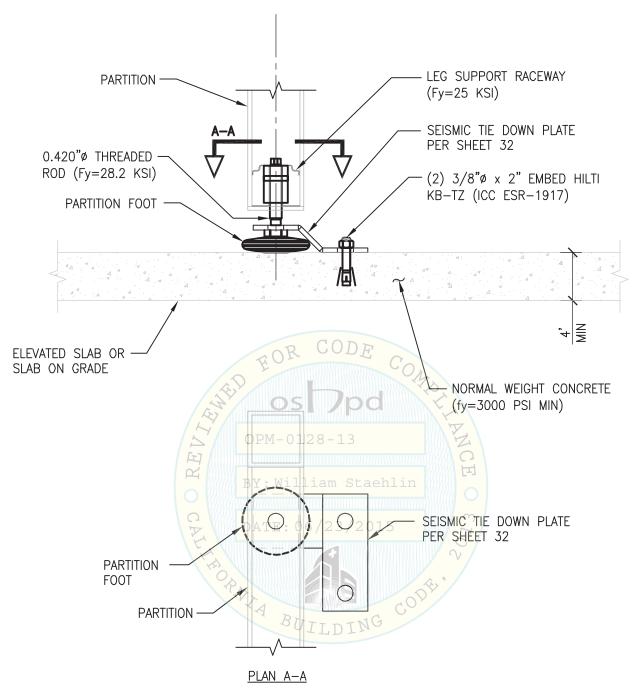
1. ALL SEISMIC ANCHOR PLATES SHALL BE ASTM A36 (Fy= 36 KSI)

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KNOLL MORRISON PARTITION & KNOLL CALIBRE FILE CABINET SEISMIC SUPPORTS & ATTACHMENTS

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SEISMIC ANCHOR CONNECTION - CONDITION 1

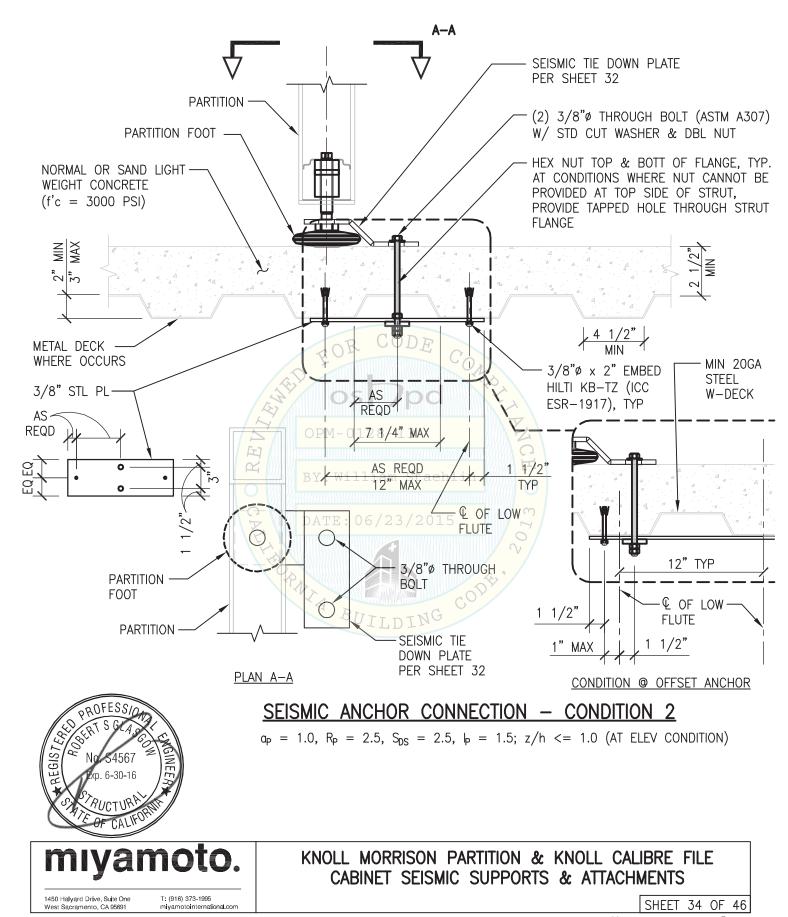
 $a_P=1.0$, $R_P=2.5$, $S_{DS}=2.5$, $I_P=1.5$; z/h<=1.0 (AT ELEV CONDITION); z/h=0.0 (AT SLAB ON GRADE OR SLAB AT BASEMENT LEVEL CONDITION)

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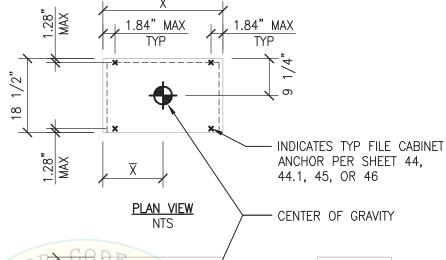
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KNOLL MORRISON PARTITION & KNOLL CALIBRE FILE CABINET SEISMIC SUPPORTS & ATTACHMENTS

SHEET 35 OF 46

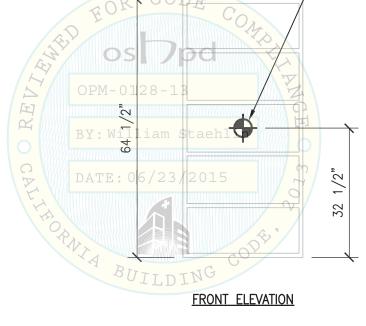
Knoll CALIBRE - FILE CONDITION #1 SINGLE FILE CABINET

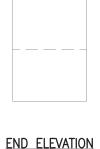
	MODEL	X (in)	X (in)	CABINET WEIGHT (lbs)	LL WEIGHT (lbs)
	30" CALIBRE	30	15	207	461
	36" CALIBRE	36	18	229	564
Ì	42" CALIBRE	42	21	250	666



MAX REACTION AT ANCHORS 1		
MODEL	V (lbs)	T (lbs)
30" CALIBRE	491	3039
36" CALIBRE	582	2352
42" CALIBRE	673	2664

1. FORCES ARE STRENGTH LEVEL AND INCLUDE Ω_{\odot} PER ASCE 7-10, CHAPTER 13 AND ACI 318-11





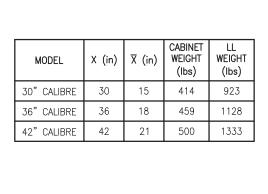


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SHEET 36 OF 46

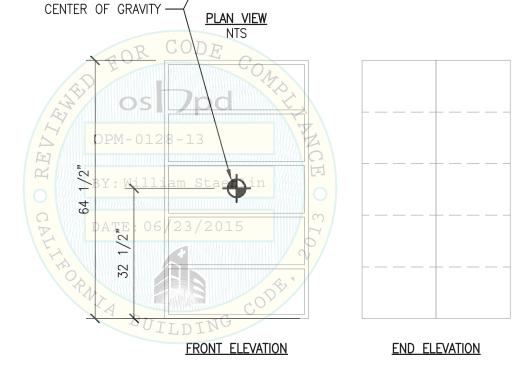


		TYP -
2,"	X - 	×
37"	X X	INDICATES TYP CABINET CONNECTION PER SHEET 43 INDICATES TYP FILE CABINET ANCHOR PER SHEET 44,
	i x	44.1, 45, OR 46

Knoll CALIBRE - FILE CONDITION #2 2 FILE CABINETS, BACK TO BACK

MAX REACTION AT ANCHORS 1		
MODEL	V (lbs)	T (lbs)
30" CALIBRE	981	2492
36" CALIBRE	1164	3296
42" CALIBRE	1345	2765

1. FORCES ARE STRENGTH LEVEL AND INCLUDE Ω_0 AS REQD PER ASCE 7-10, CHAPTER 13 AND ACI 318-11





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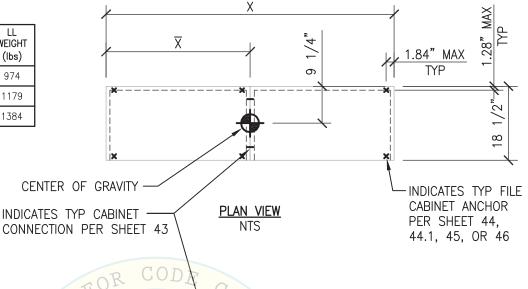
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KNOLL MORRISON PARTITION & KNOLL CALIBRE FILE CABINET SEISMIC SUPPORTS & ATTACHMENTS

SHEET 37 OF 46

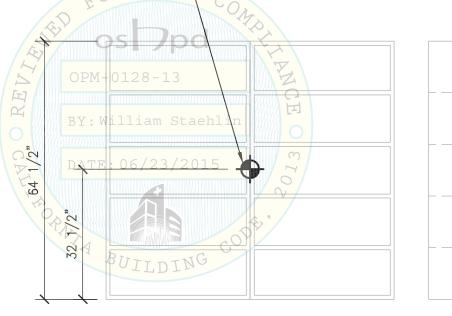
Knoll CALIBRE - FILE CONDITION #3 2 FILE CABINETS, SIDE TO SIDE

MODEL	X (in)	∏ (in)	CABINET WEIGHT (lbs)	LL WEIGHT (lbs)
30" CALIBRE	60	30	414	974
36" CALIBRE	72	36	459	1179
42" CALIBRE	89	42	500	1384



MAX REACTION AT ANCHORS 1			
MODEL	V (lbs)	T (lbs)	
30" CALIBRE	679	2687	
36" CALIBRE	801	3105	
42" CALIBRE	922	3519	

 FORCES ARE STRENGTH LEVEL AND INCLUDE Ω₀ PER ASCE 7-10, CHAPTER 13 AND ACI 318-11



FRONT ELEVATION



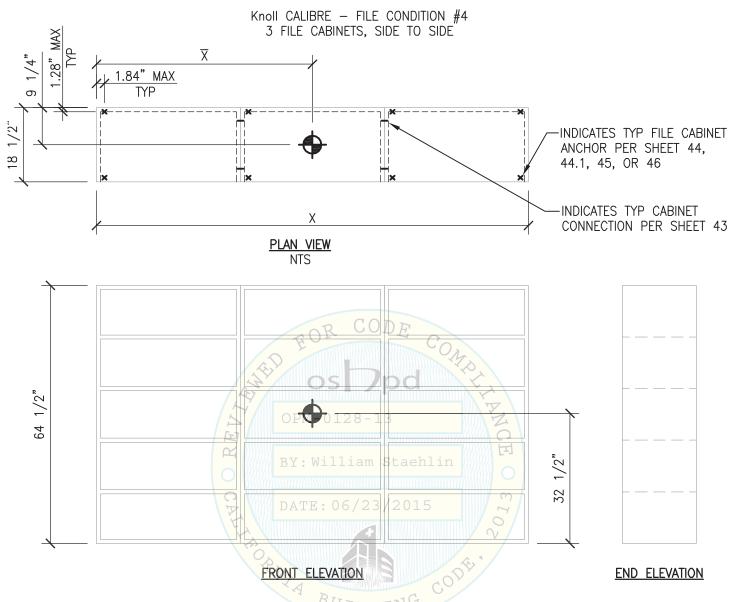


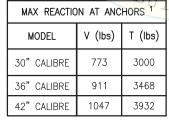
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SHEET 38 OF 46





CABINET \overline{X} (in) WEIGHT WEIGHT MODEL X (in) (lbs) (lbs) 30" CALIBRE 90 45 621 1486 36" CALIBRE 108 54 688 1794 42" CALIBRE 750 126 2101



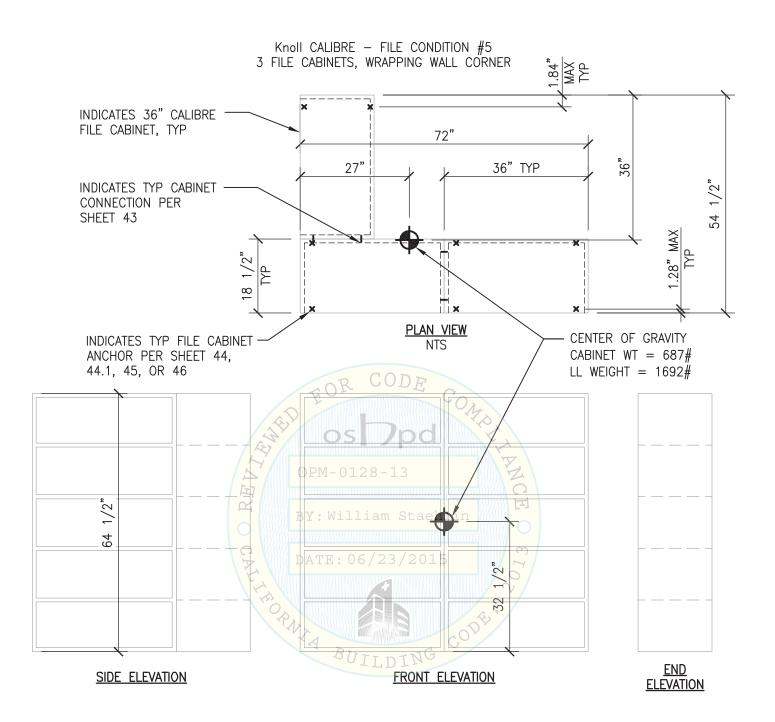
 FORCES ARE STRENGTH LEVEL AND INCLUDE Ω₀ PER ASCE 7-10, CHAPTER 13 AND ACI 318-11

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SHEET 39 OF 46





MAX REACTION AT ANCHORS			
MODEL	V (lbs)	T (lbs)	
36" CALIBRE	524	1124	

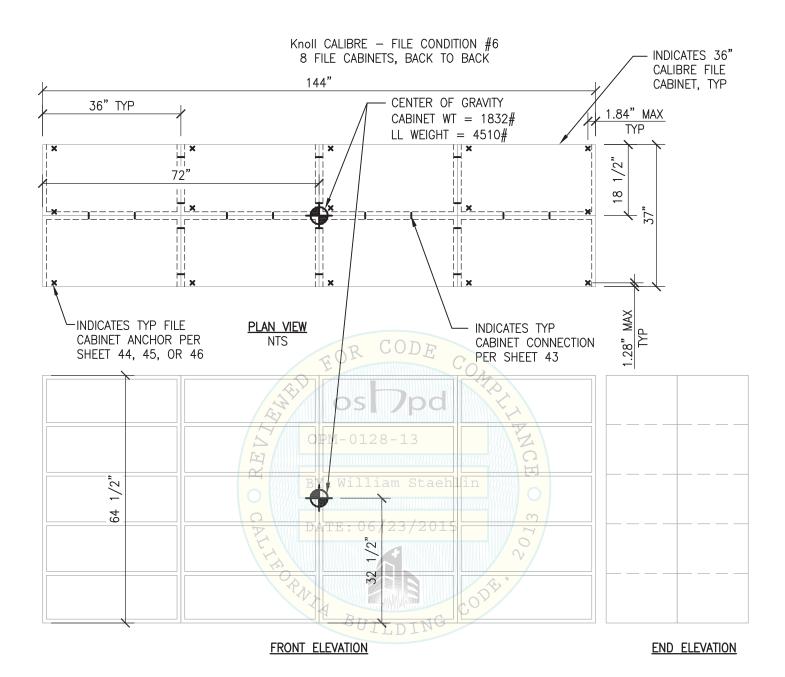
1. FORCES ARE STRENGTH LEVEL AND INCLUDE Ω₀ PER ASCE 7-10, CHAPTER 13 AND ACI 318-11

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SHEET 40 OF 46





MAX REACTIO	HORS ¹	
MODEL	V (lbs)	T (lbs)
36" CALIBRE	1241	3255

1. FORCES ARE STRENGTH LEVEL AND INCLUDE Ω₀ PER ASCE 7-10, CHAPTER 13 AND ACI 318-11

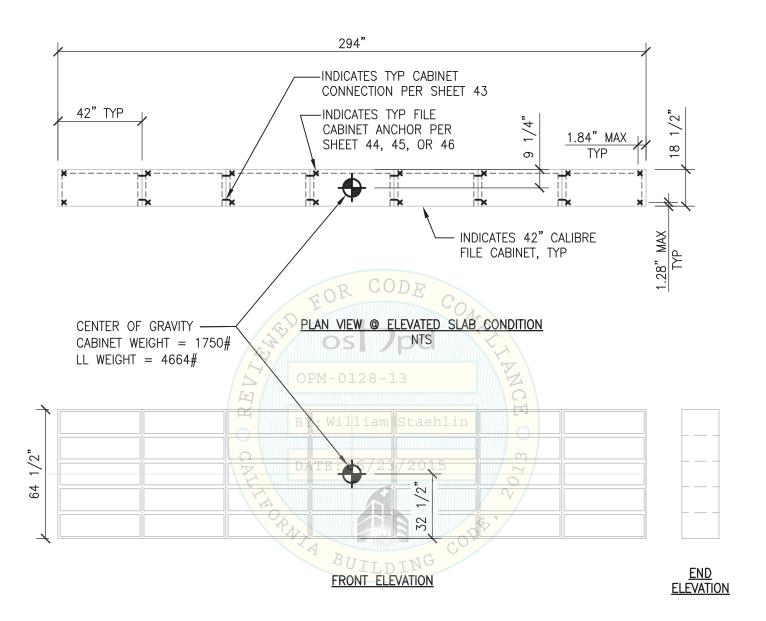
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SHEET 41 OF 46

Knoll CALIBRE - FILE CONDITION #7 7 FILE CABINETS





MAX REACTION AT ANCHORS 1		
MODEL	V (lbs)	T (lbs)
42" CALIBRE	1177	4274

 FORCES ARE STRENGTH LEVEL AND INCLUDE Ω₀ PER ASCE 7-10, CHAPTER 13 AND ACI 318-11

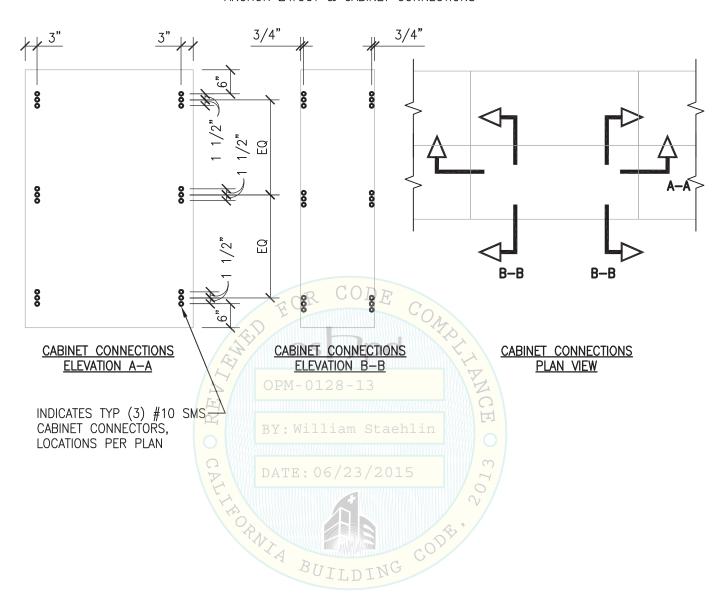
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KNOLL MORRISON PARTITION & KNOLL CALIBRE FILE CABINET SEISMIC SUPPORTS & ATTACHMENTS

SHEET 42 OF 46

Knoll CALIBRE - FILE CABINETS ANCHOR LAYOUT & CABINET CONNECTIONS





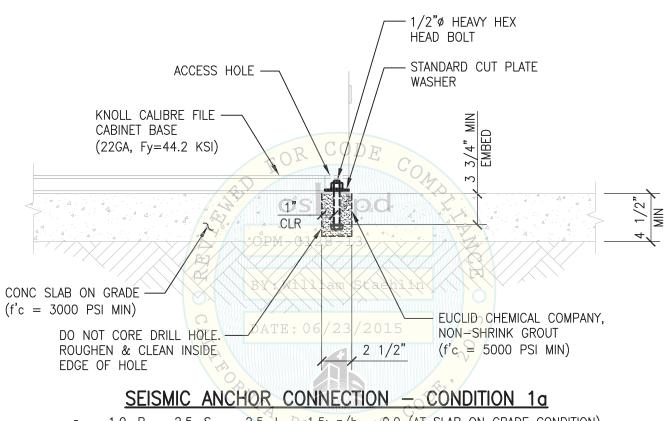
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Knoll CALIBRE - FILE CABINETS ANCHOR AT SLAB ON GRADE



 $a_P = 1.0$, $R_P = 2.5$, $S_{DS} = 2.5$, $l_P = 1.5$; z/h = 0.0 (AT SLAB ON GRADE CONDITION)



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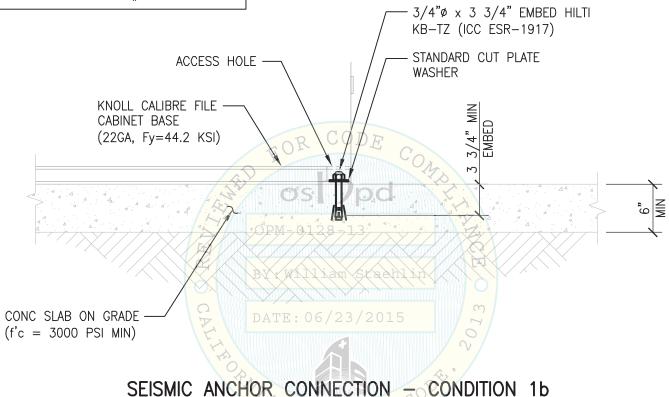
KNOLL MORRISON PARTITION & KNOLL CALIBRE FILE CABINET SEISMIC SUPPORTS & ATTACHMENTS

SHEET 44 OF 46

Knoll CALIBRE - FILE CABINETS ANCHOR AT SLAB ON GRADE

NOTE: SEISMIC ANCHOR CONDITION 1b MAY NOT BE USED WITH THE FOLLOWING CONFIGURATIONS:

- FILE CONDITION #3, 42" CALIBRE
- FILE CONDITION #4, 36" CALIBRE
- FILE CONDITION #4, 42" CALIBRE
 FILE CONDITION #6, 36" CALIBRE
- FILE CONDITION #7, 42" CALIBRE



 $a_P = 1.0$, $R_P = 2.5$, $S_{DS} = 2.5$, $I_P = 1.5$; z/h = 0.0 (AT SLAB ON GRADE CONDITION)



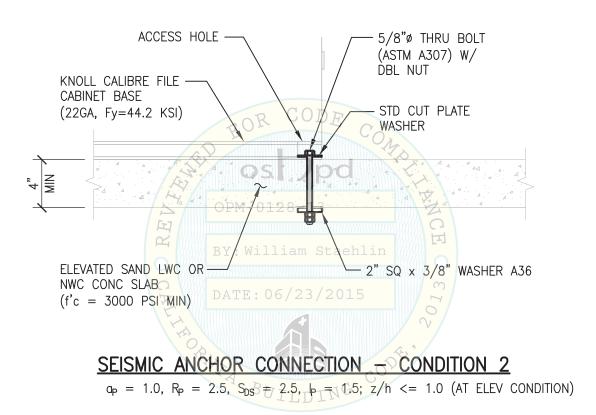
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SHEET 44.1 OF 46

Knoll CALIBRE — FILE CABINETS ANCHOR AT ELEVATED SLAB





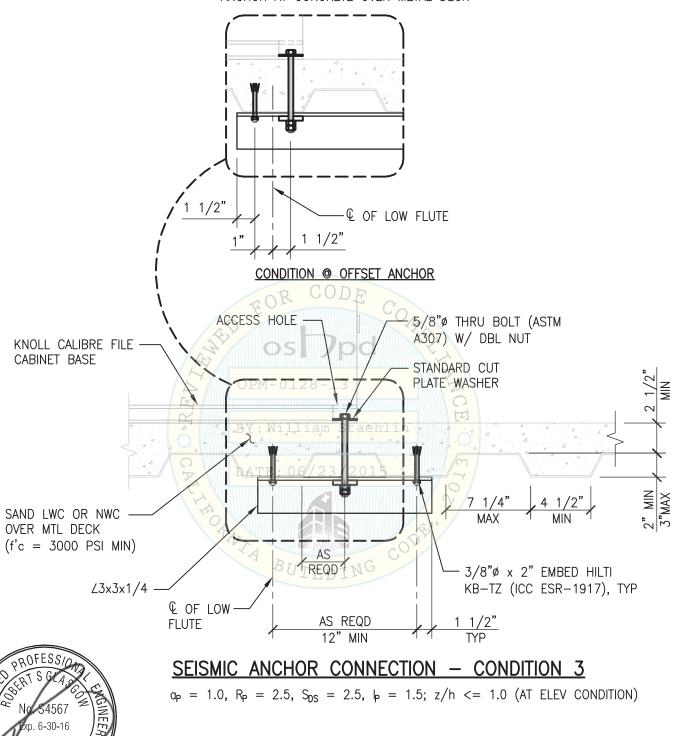
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