



DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION
OFFICE OF STATEWIDE HOSPITAL PLANNING AND DEVELOPMENT

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

OFFICE USE ONLY

APPLICATION #: OPM-0707

HCAI Preapproval of Manufacturer's Certification (OPM)

Type: ☒ New ☐ Renewal/Update

Manufacturer Information

Manufacturer: Sysmex America, Inc.

Manufacturer's Technical Representative: Ben Boeke

Mailing Address: 577 Aptakisic Road, Lincolnshire, IL 60069

Telephone: (847) 975-0067

Email: boekeB@sysmex.com

Product Information

Product Name: Sysmex Automated Blood Coagulation Analyzer

Product Type: Automated Blood Coagulation Analyzer

Product Model Number: CS-5100

General Description: Fully automated blood coagulation analyzer intender for in vitro diagnostic use

Applicant Information

Applicant Company Name: SAFE-T-PROOF

Contact Person: Nathaniel Moore

Mailing Address: 1207 W. Isabel St., Burbank, CA 91506

Telephone: (203) 676-2813

Email: nmoore@safe-t-proof.com

Title: Product Development Manager

"A healthier California where all receive equitable, affordable, and quality health care"

STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY





DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION
OFFICE OF STATEWIDE HOSPITAL PLANNING AND DEVELOPMENT

Registered Design Professional Preparing Engineering Recommendations

Company Name: BASE DESIGN

Name: Kathryn Briggs

California License Number: S5732

Mailing Address: 582 Market St., Suite 1101, San Francisco, CA 94104

Telephone: (415) 466-2997

Email: Katy@BASEdesigninc.com

Certification Method

Testing in accordance with: ☐ ICC-ES AC156 ☐ FM 1950 ☐ ASHRAE 171 ☐ FEMA 461

☐ Other(s) (Please Specify):

*Use of criteria other than those adopted by the California Building Standards Code, 2022 (CBSC 2022) 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 2022 may be used when approved by HCAI prior to testing.

☒ Analysis

☐ Experience Data

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

HCAI Approval

Date: 10/18/2025

Name: William Staehlin

Title: Senior Structural Engineer

Condition of Approval (if applicable):

"A healthier California where all receive equitable, affordable, and quality health care"

STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY



GENERAL NOTES:

1. THIS HCAi PRE-APPROVAL OF MANUFACTURER'S CERTIFICATION (OPM) IS BASED ON THE CBC 2022. THE DEMAND (DESIGN FORCES) FOR USE W/ THIS OPM MUST BE BASED ON THE CBC 2022.

2. IT IS THE RESPONSIBILITY OF THE STRUCTURAL ENGINEER OF RECORD FOR A SITE SPECIFIC PROJECT TO VERIFY:

A. THE ADEQUACY OF THE NEW OR (E) STRUCTURE TO RESIST THE FORCES & WEIGHT SPECIFIED FOR EACH EQUIPMENT IN ADDITION TO ALL OTHER LOADS. PROVIDE & DESIGN SUPPLEMENTARY MEMBERS AS REQUIRED.

B. THAT THE INSTALLATION IS IN CONFORMANCE WITH THE CBC 2022 & WITH THE DETAILS SHOWN IN THIS PRE-APPROVAL.

C. THAT THE ACTUAL EQUIPMENT'S WEIGHT, CENTER OF GRAVITY (CG) LOCATION, ATTACHMENT LOCATIONS, ATTACHMENT DETAILS, & THE MATERIAL & GAGE OF THE EQUIPMENT WHERE ATTACHMENTS ARE MADE, AGREE WITH THE INFORMATION SHOWN ON THE PRE-APPROVAL DOCUMENTS.

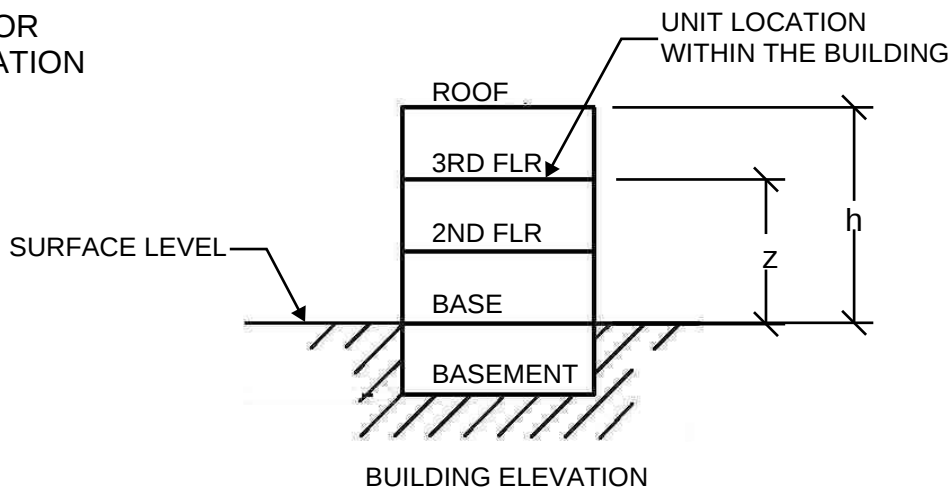
3. ATTACHMENT RESTRAINTS MUST BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS & NOTES ON FOLLOWING PAGES.

4. TWO (2) CASES OF ATTACHMENT ARE SPECIFIED & PRESENTED IN THIS PRE-APPROVAL:

CASE "A": CASE "A" IS FOR RESTRAINT STRAP LOCATED ON TOP OF CART/BRENCH TOP (SUPPLIED BY CUSTOMER).

CASE "B": CASE "B" IS FOR RESTRAINT STRAP LOCATED ON SIDES OF CART/BRENCH TOP (SUPPLIED BY CUSTOMER).

5. SEE BELOW FOR VISUAL EXPLANATION OF z/h .



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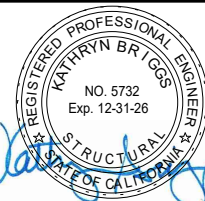
SHEET NAME:
GENERAL NOTES

Sysmex Equipment OPM

PROJECT NO: 23300 SCALE: NTS

DWN BY: NM

DATE: 9/17/25



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CO., INC.

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GENERAL NOTES (CONT.):

6. EXPANSION ANCHORS INSTALLED IN NWC OR LWC SHALL BE CARBON STEEL HILTI KB-TZ2 EXPANSION ANCHORS IN COMPLIANCE WITH ESR-4266.

A. INSTALLATION: INSTALL THE EXPANSION ANCHORS IN ACCORDANCE WITH THE REQUIREMENTS GIVEN IN THE ICC EVALUATION REPORT FOR THE SPECIFIC ANCHOR AND THE PARAMETERS GIVEN IN THE TABLE BELOW.

B. TESTING AND INSPECTION: PERFORM JOBSITE TESTING IN ACCORDANCE WITH THE TEST LOAD PROVIDED IN THE TABLE BELOW. TORQUE TEST 50% OF THE INSTALLED ANCHORS IN THE PRESENCE OF THE SPECIAL INSPECTOR. IF ANY ANCHOR FAILS THE TEST, TEST ALL ANCHORS. REPORT OF THE TEST RESULTS SHALL BE SUBMITTED TO HCAI.

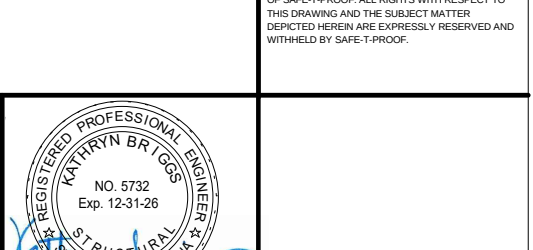
C. ACCEPTANCE CRITERIA: ANCHORS TESTED WITH A CALIBRATED TORQUE WRENCH MUST REACH THE APPLICABLE TEST TORQUE WITHIN ONE-HALF (1/2) TURN OF THE NUT.

D. AVOID DAMAGING EXISTING STEEL REINFORCING IN CONCRETE SLAB WHEN INSTALLING EXPANSION ANCHORS.

E. PROVIDE FOR FULL THREAD ENGAGEMENT OF NUT AND WASHER.

ANCHOR DIAMETER	CONCRETE TYPE	MIN. f'c (psi)	MIN. EDGE DIST. *	EFF. EMBED	NOM. EMBED	TEST TORQUE
1/2"	NORMAL WEIGHT	3000	10"	2"	2-1/2"	50 FT-LB
1/2"	SAND LIGHT WEIGHT	3000	7-1/2"	2"	2-1/2"	50 FT-LB

* THE EDGE DISTANCE NOTED IS FROM CENTER OF ANCHORS TO THE EDGE OF CONCRETE REQUIRED TO ACHIEVE THE FULL ANCHOR CAPACITY. SEOR IS RESPONSIBLE FOR CHECKING CONDITIONS WHERE MINIMUM EDGE DISTANCE IS NOT MET.

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SHEET NAME: GENERAL NOTES (CONTINUED)	PROJECT NO: 23300 SCALE: NTS DWN BY: NM DATE 9/17/25		
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DESIGN CRITERIA

SUPPORT & ATTACHMENT DESIGN IS PER 2022 CBC ASD LEVEL FORCES.

SEISMIC COEFFICIENTS PER TABLE 13.6-1 OF ASCE 7-16 INCLUDING SUPPLEMENT #1 & ERRATA:

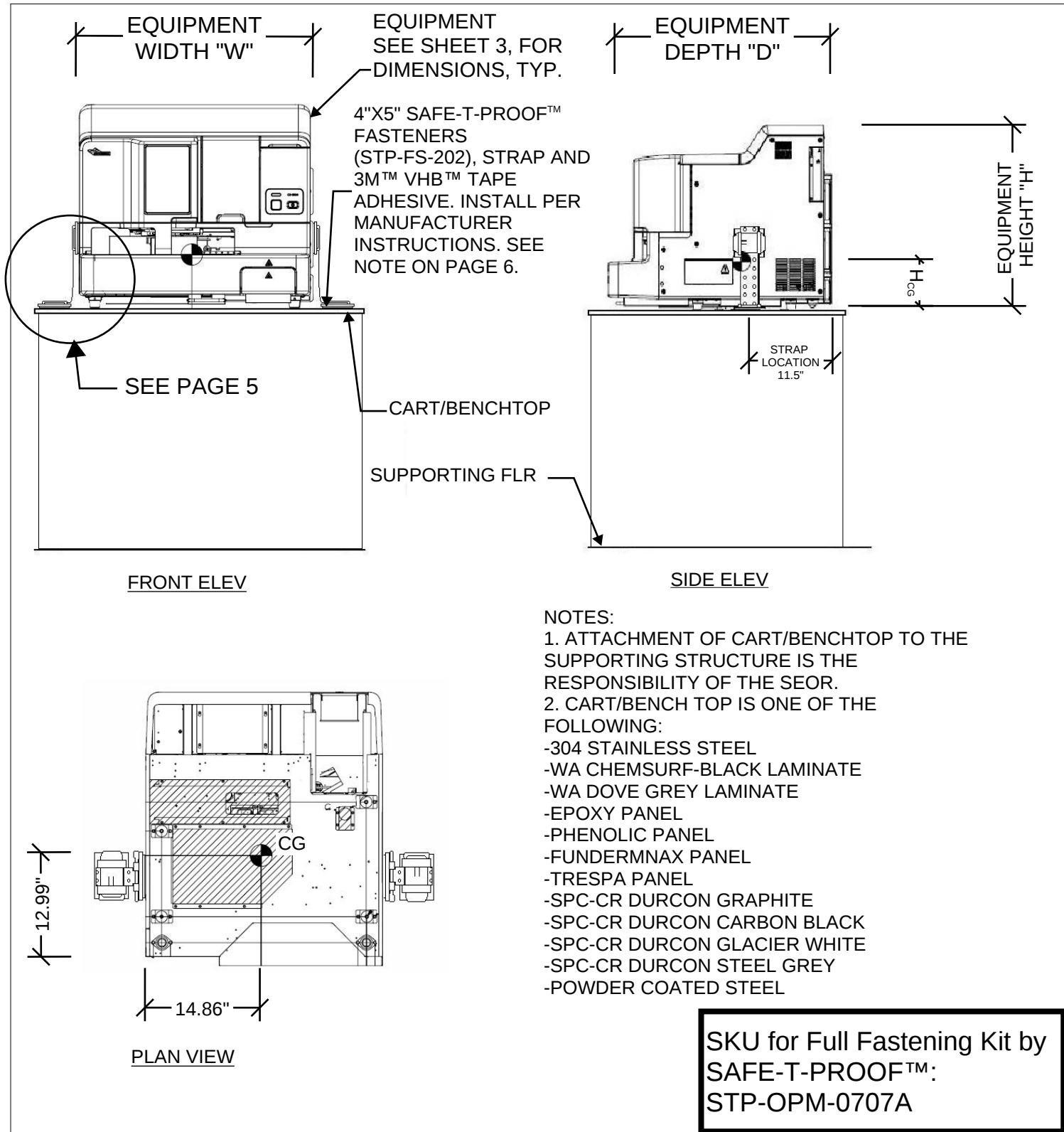
Other Mechanical or Electrical Components: $a_p = 1.0$ $R_p = 1.5$ $I_p = 1.5$ $\Omega_0 = 2.0$ **ASD LOAD COMBINATIONS**(0.6 - 0.14 SDS) D - F_p (FOR MAX TENSION)**LRFD LOAD COMBINATIONS**(0.9 - 0.2 SDS) D - $\Omega_0 F_p$ **EQUIPMENT WEIGHTS AND DIMENSIONS:**

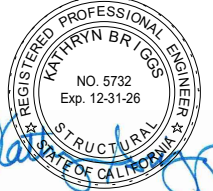
UNIT	WIDTH "W" (IN)	DEPTH "D" (IN)	HEIGHT "H" (IN)	Hcg (IN)	WEIGHT "Wp" (LBS)
BENCH/CART-TOP EQUIPMENT					
CS-2500	30.51	34.03	26.81	7.02	243
CA-600	22.28	19.29	19.46	9.88	95
FLOOR-MOUNTED EQUIPMENT					
CS-5100	40.6	45.3	50.4	25.7	613
CN-3000/6000	28.4	35.7	53.0	24.6	508
CN-3000/6000 (W/ SA-90)	41.4	40.4	53.0	23.0	678
IPU WAGON	19.7	35.1	47.0	17.7	148

NOTE:

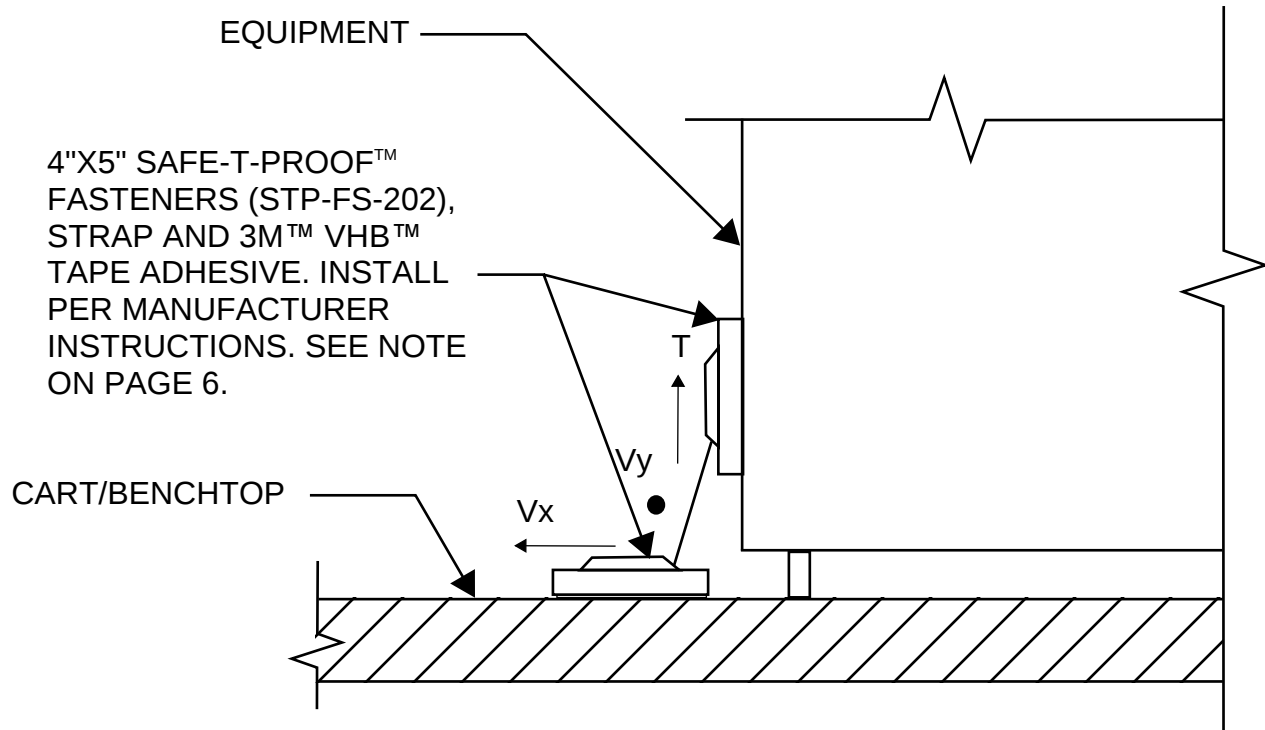
TABULATED WEIGHTS ARE FOR THE INSTRUMENT ONLY. IT DOES NOT INCLUDE THE SUPPORT CART/BENCH.

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	SHEET NAME: DESIGN CRITERIA & UNIT DIMENSIONS	PROJECT NO: 23300 SCALE: NTS DWN BY: NM DATE: 9/17/25	
Page 3 of 28			



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SHEET NAME: UNIT CONFIGURATION CASE "A" (CS-2500)	PROJECT NO: 23300 SCALE: NTS DWN BY: NM DATE: 9/17/25		
Page 4 of 28			

1. THESE FORCES ARE PRESENT AT ASD LEVELS.
2. TABULATED DEMANDS LOADS SHOWN ARE AT THE INTERFACE BETWEEN PAD & THE TABLETOP SURFACE.
3. "Vy" REPRESENTS SHEAR PERPENDICULAR TO THIS PLANE.



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SHEET NAME:
ATTACHMENT POINT
FORCES CASE "A"
(CS-2500)

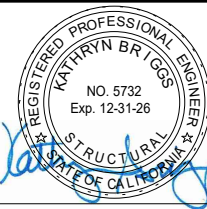
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Sysmex Equipment OPM

PROJECT NO: 23300 SCALE: NTS

DWN BY: NM

DATE: 9/17/25



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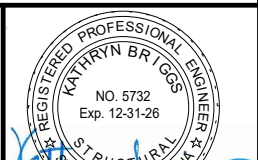
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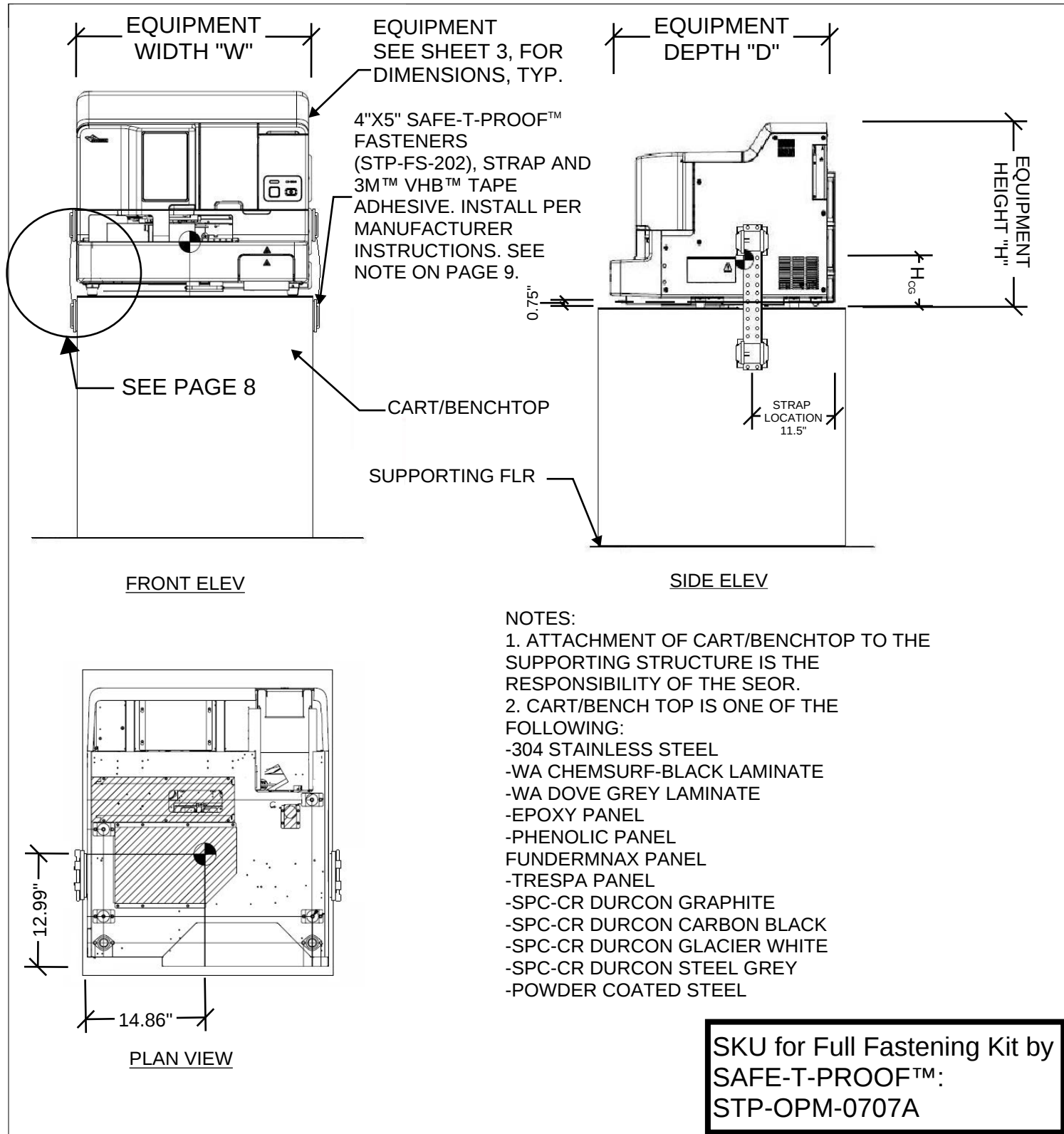
MAX ASD ANCHOR FORCES AT EACH BRACKET (CS-2500)

MAX SDS	MAX z/h	T (LBS)	Vx (LBS)	Vy (LBS)
1.5	0.0	55.84	114.96	58.89

NOTE:

FOLLOW MFR'S INSTRUCTIONS FOR ADHESION OF FOAM ADHESIVE TO BOND SURFACE AS FOLLOWS:
 CLEAN W/ A 70:30 ISOPROPYL ALCOHOL (IPA)/WATER SOLUTION, ALLOWED TO DRY, LIGHTLY ABRASE
 THE BOND AREA OF SURFACES (POWDER-COATED STL, SS, PHENOLIC, THERMOPLASTIC LAMINATE)
 W/ A SCOTCHBRITE 7447 PAD & THEN CLEAN W/ A 70:30 ISOPROPYL ALCOHOL (IPA)/WATER SOLUTION,
 ALLOWED TO DRY PRIOR TO APPLICATION OF THE ADHESIVE. DO NOT TOUCH ADHESIVE SURFACE
 WITH HANDS. PRESS FASTENER EVENLY TO SUBSTRATE FOR 30 SECONDS.

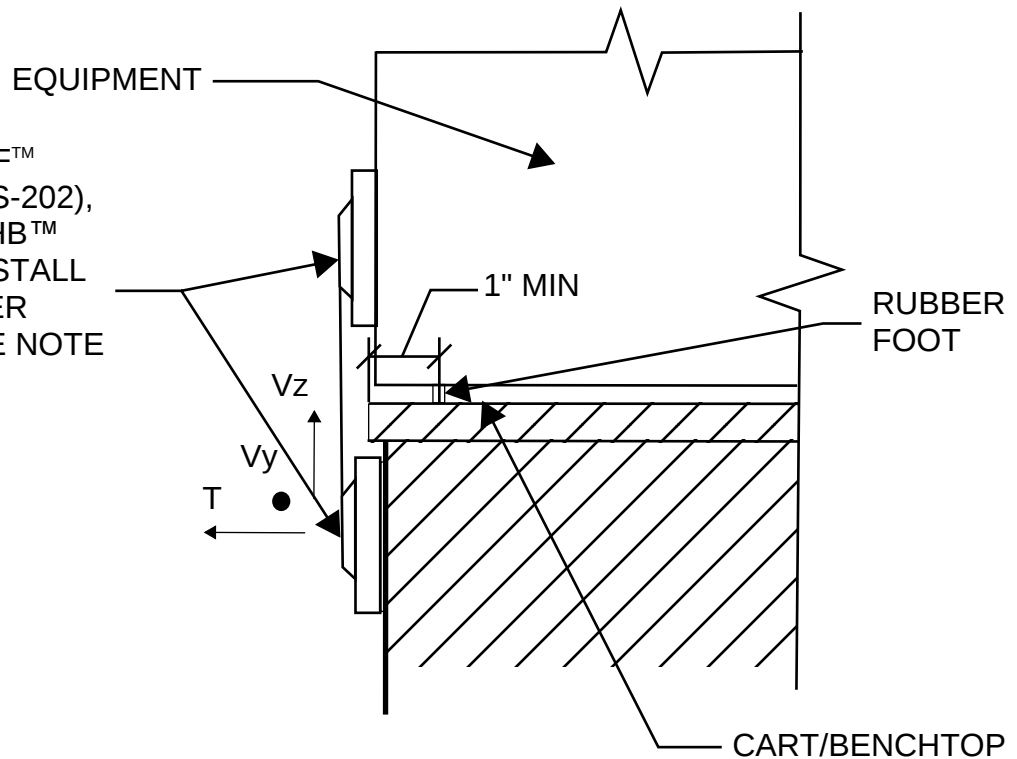
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Page 7 of 28			

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4"X5" SAFE-T-PROOF™ FASTENERS (STP-FS-202), STRAP AND 3M™ VHB™ TAPE ADHESIVE. INSTALL PER MANUFACTURER INSTRUCTIONS. SEE NOTE ON PAGE 9.



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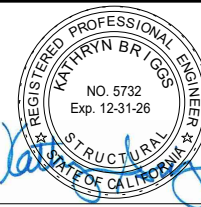
SHEET NAME:
ATTACHMENT POINT
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(CS-2500)

Sysmex Equipment OPM

PROJECT NO: 23300 SCALE: NTS

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MAX ASD ANCHOR FORCES AT EACH BRACKET (CS-2500)

MAX SDS	MAX z/h	T (LBS)	Vz (LBS)	Vy (LBS)
1.5	0.0	76.2	0	55.84

NOTE:

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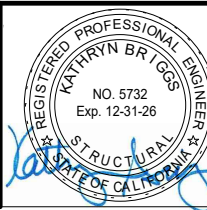
Page 9 of 28

Sysmex Equipment OPM

PROJECT NO: 23300 SCALE: NTS

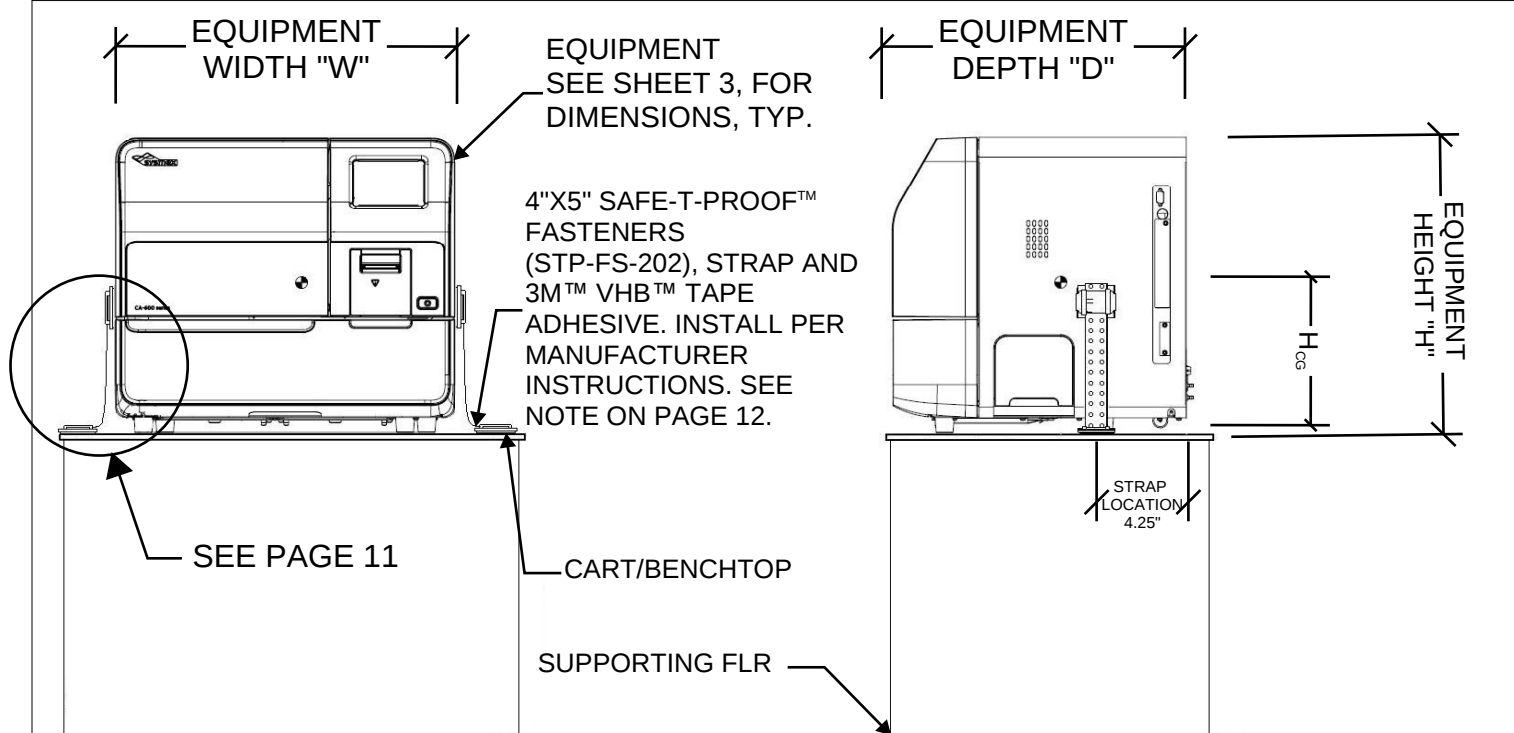
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FRONT ELEV

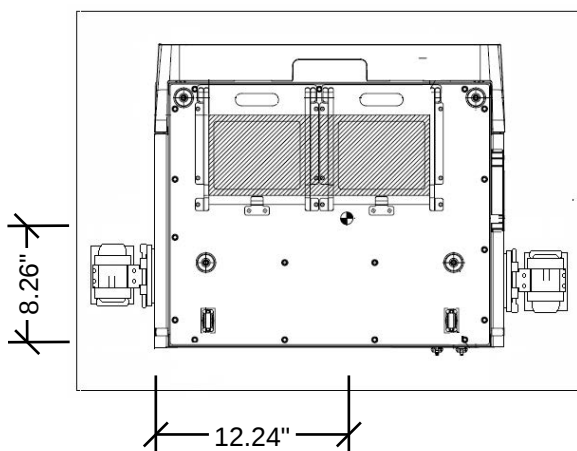
SIDE ELEV

NOTES:

1. ATTACHMENT OF CART/BENCHTOP TO THE SUPPORTING STRUCTURE IS THE RESPONSIBILITY OF THE SEOR.
2. CART/BENCH TOP IS ONE OF THE FOLLOWING:

- 304 STAINLESS STEEL
- WA CHEMSURF-BLACK LAMINATE
- WA DOVE GREY LAMINATE
- EPOXY PANEL
- PHENOLIC PANEL
- FUNDERMNAX PANEL
- TRESPA PANEL
- SPC-CR DURCON GRAPHITE
- SPC-CR DURCON CARBON BLACK
- SPC-CR DURCON GLACIER WHITE
- SPC-CR DURCON STEEL GREY
- POWDER COATED STEEL

3. SEE PAGE 9 FOR DETAILED EQUIPMENT DRAWINGS.



PLAN VIEW

SKU for Full Fastening Kit by
SAFE-T-PROOF™:
STP-OPM-0707A

SAFE-T-PROOF™

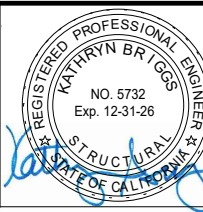
SHEET NAME:
UNIT CONFIGURATION
CASE "A" (CA-600)

Sysmex Equipment OPM

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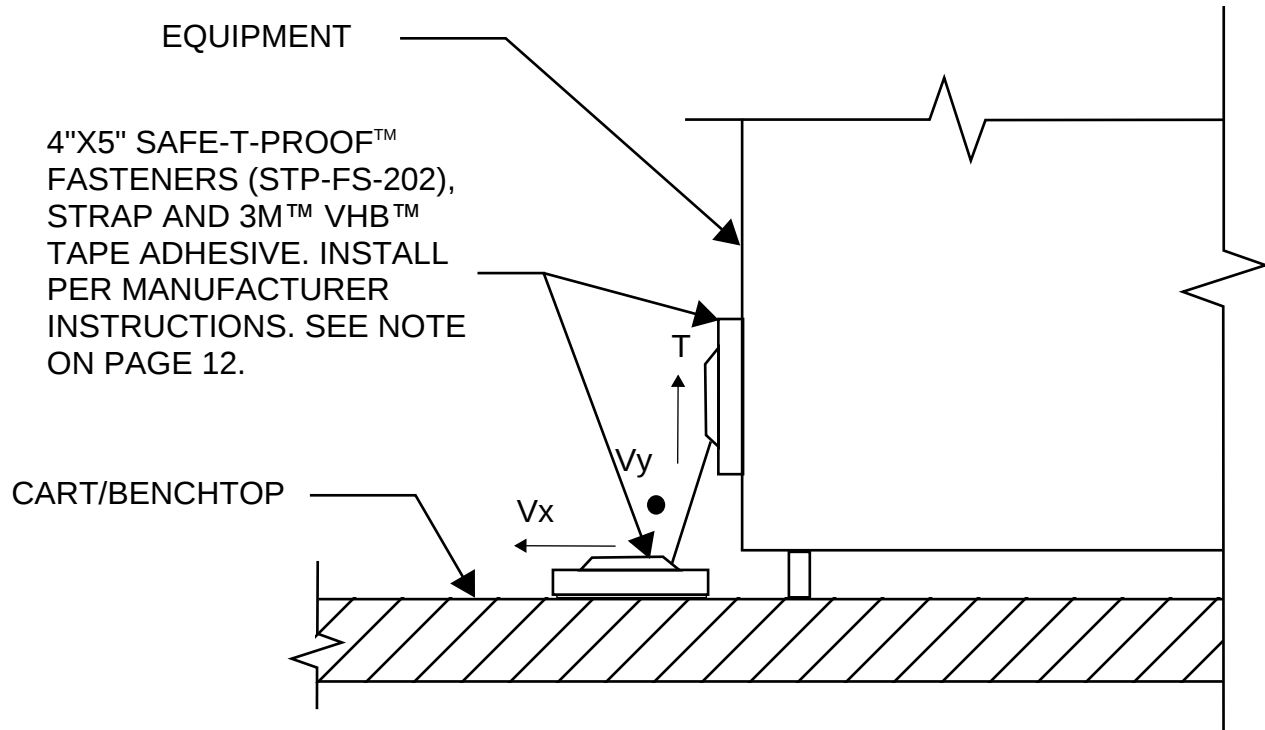
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ATTACHMENT POINT
FORCES CASE "A"
(CA-600)

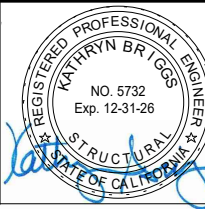
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MAX ASD ANCHOR FORCES AT EACH BRACKET (CA-600)

MAX SDS	MAX z/h	T (LBS)	Vx (LBS)	Vy (LBS)
1.5	0.9	48.0	113.51	61.39
2.0	0.0	21.37	60.81	32.89

NOTE:

FOLLOW MFR'S INSTRUCTIONS FOR ADHESION OF FOAM ADHESIVE TO BOND SURFACE AS FOLLOWS:
 CLEAN W/ A 70:30 ISOPROPYL ALCOHOL (IPA)/WATER SOLUTION, ALLOWED TO DRY, LIGHTLY ABRASE
 THE BOND AREA OF SURFACES (POWDER-COATED STL, SS, PHENOLIC, THERMOPLASTIC LAMINATE)
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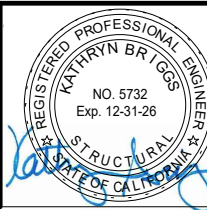
Page 12 of 28

Sysmex Equipment OPM

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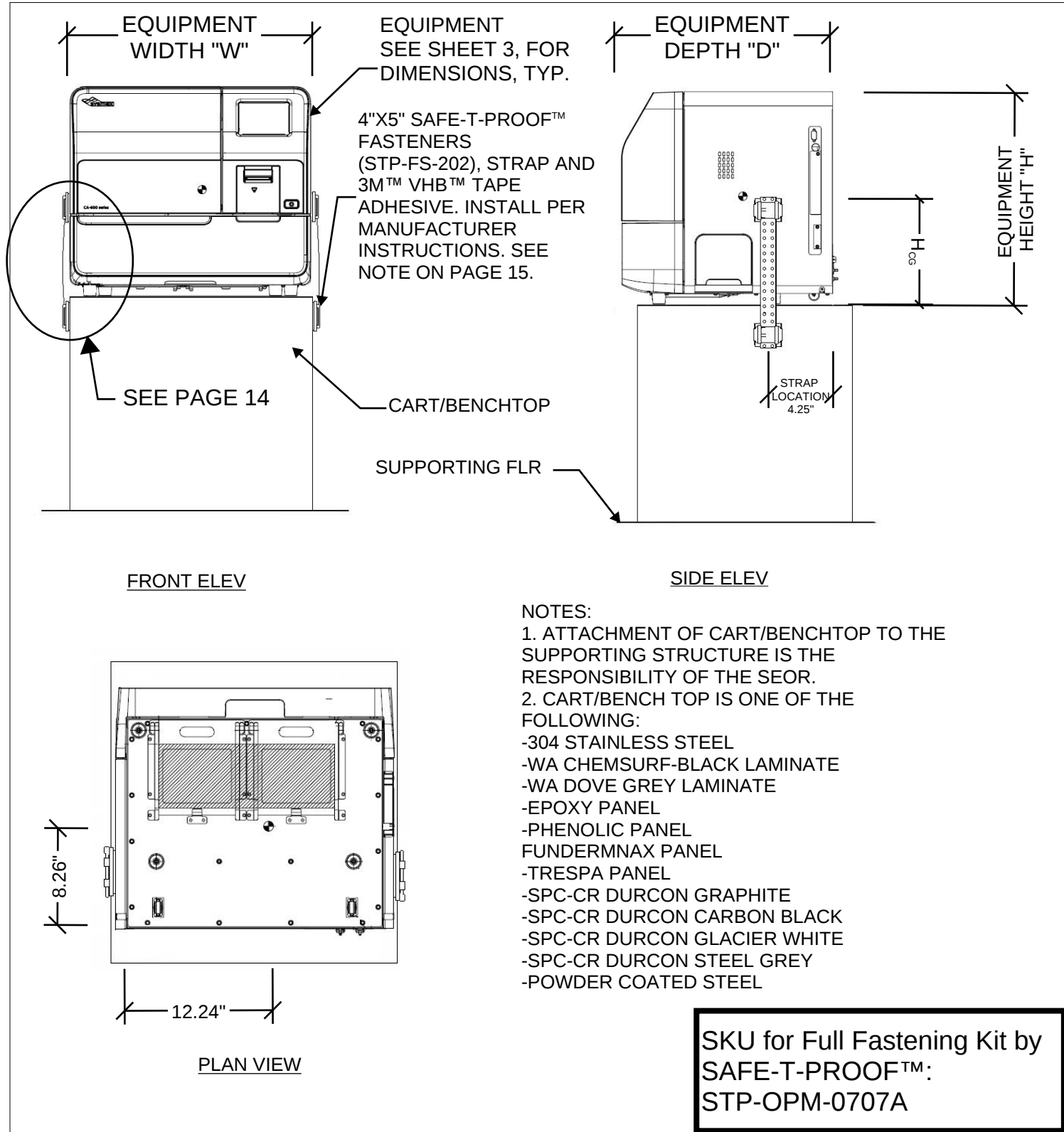
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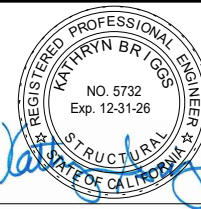
SHEET NAME:
UNIT CONFIGURATION
CASE "B" (CA-600)

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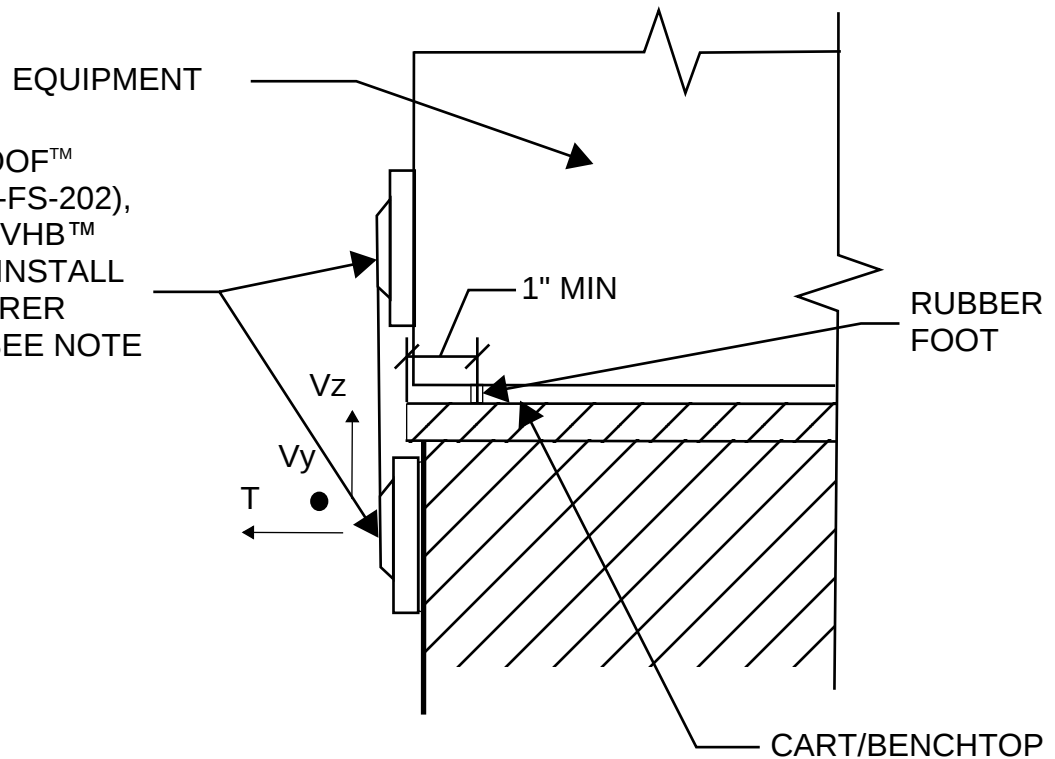


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2. TABULATED DEMANDS LOADS SHOWN ARE AT THE INTERFACE BETWEEN PAD & THE TABLETOP SURFACE.
3. "Vy" REPRESENTS SHEAR PERPENDICULAR TO THIS PLANE.

4"X5" SAFE-T-PROOF™ FASTENERS (STP-FS-202), STRAP AND 3M™ VHB™ TAPE ADHESIVE. INSTALL PER MANUFACTURER INSTRUCTIONS. SEE NOTE ON PAGE 15.



SAFE-T-PROOF™

SHEET NAME:
ATTACHMENT POINT
FORCES CASE "B"
(CA-600)

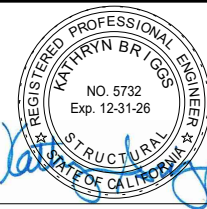
Page 14 of 28

Sysmex Equipment OPM

PROJECT NO: 23300 SCALE: NTS

DWN BY: NM

DATE: 9/17/25



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OUTSIDE SAFE-T-PROOF DISASTER PREPAREDNESS
CO., INC.

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WITHHELD BY SAFE-T-PROOF.

MAX ASD ANCHOR FORCES AT EACH BRACKET (CA-600)

MAX SDS	MAX z/h	T (LBS)	Vz (LBS)	Vy (LBS)
1.5	0.9	79.19	38.19	38.53
2.0	0.0	42.42	17.23	16.83

NOTE:

FOLLOW MFR'S INSTRUCTIONS FOR ADHESION OF FOAM ADHESIVE TO BOND SURFACE AS FOLLOWS:
 CLEAN W/ A 70:30 ISOPROPYL ALCOHOL (IPA)/WATER SOLUTION, ALLOWED TO DRY, LIGHTLY ABRASE
 THE BOND AREA OF SURFACES (POWDER-COATED STL, SS, PHENOLIC, THERMOPLASTIC LAMINATE)
 W/ A SCOTCHBRITE 7447 PAD & THEN CLEAN W/ A 70:30 ISOPROPYL ALCOHOL (IPA)/WATER SOLUTION,
 ALLOWED TO DRY PRIOR TO APPLICATION OF THE ADHESIVE. DO NOT TOUCH ADHESIVE SURFACE
 WITH HANDS. PRESS FASTENER EVENLY TO SUBSTRATE FOR 30 SECONDS.

SAFE-T-PROOF™

SHEET NAME:
 ATTACHMENT POINT
 FORCES CASE "B"
 (CA-600)

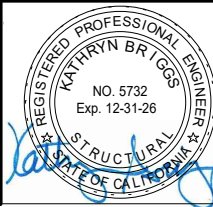
Page 15 of 28

Sysmex Equipment OPM

PROJECT NO: 23300 SCALE: NTS

DWN BY: NM

DATE: 9/17/25



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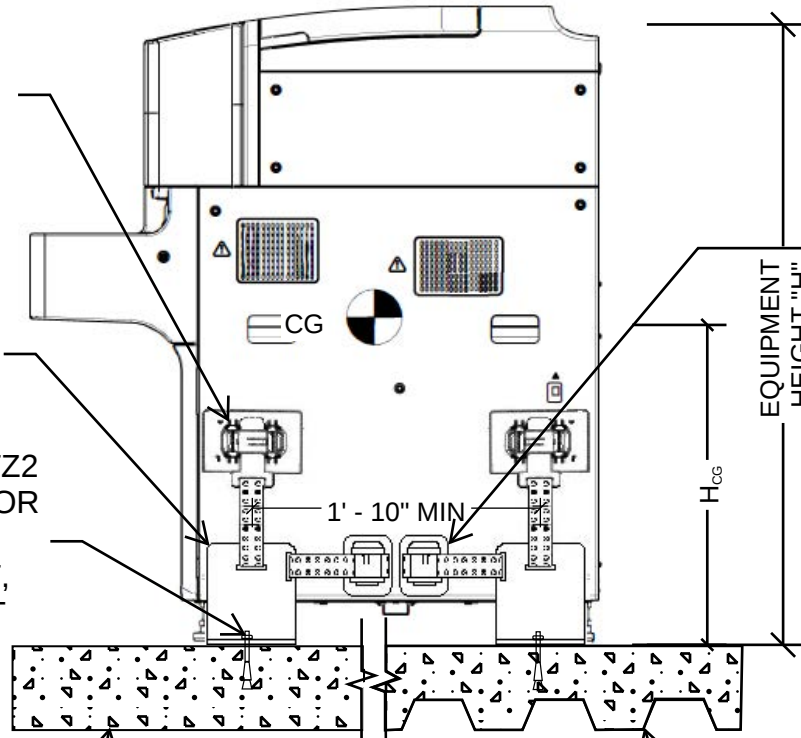
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(4) 7"x8"
SAFE-T-PROOF™
FASTENERS
(STP-FS-204),
STRAP AND 3M™
VHB™ TAPE
ADHESIVE (ICC
ESR-4167)

(4) SAFE-T-PROOF™
9"x8"x2"x1/4" THICK
BRACKET, SEE PAGE
28

1/2" DIA. HILTI KB-TZ2
EXPANSION ANCHOR
(ICC ESR-4266) W/
2 1/2" EMBEDMENT,
TYP OF 4 PER UNIT

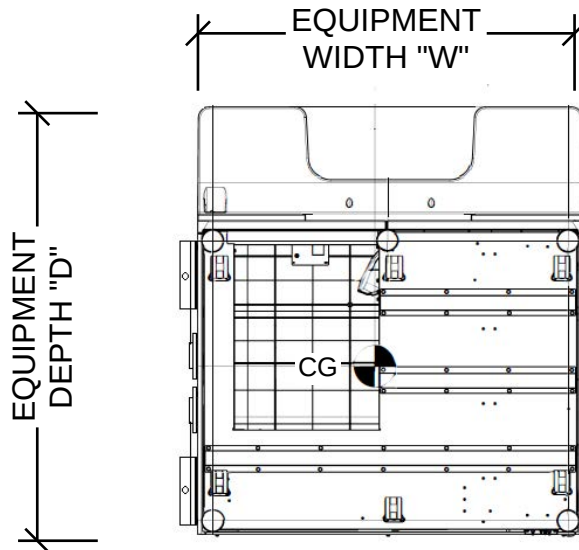
(4) 5"x6"
SAFE-T-PROOF™
FASTENERS
(STP-FS-203),
STRAP AND 3M™
VHB™ TAPE
ADHESIVE (ICC
ESR-4167)



5" MIN NW CONC SLAB
(f'c = 3000 PSI MIN)

ELEVATION

3.25" MIN LW CONC FILL
OVER METAL DECK
(f'c = 3000 PSI MIN)



PLAN

EQUIPMENT
SEE SHEET 3, FOR
DIMENSIONS, TYP.

SKU for Full Fastening Kit
by SAFE-T-PROOF™:
STP-OPM-0707B

SAFE-T-PROOF™

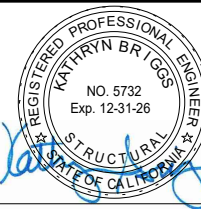
SHEET NAME:
UNIT CONFIGURATION
(CS-5100)

Sysmex Equipment OPM

PROJECT NO: 23300 SCALE: NTS

DWN BY: NM

DATE: 9/17/25

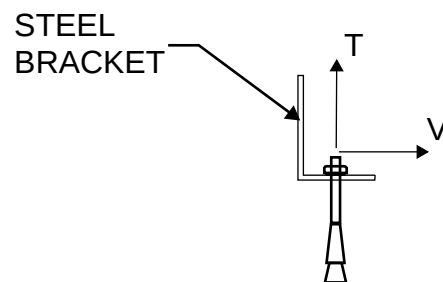


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CONCRETE ANCHOR FORCES (LRFD W/ OVERSTRENGTH FACTOR)

MAX SDS	MAX z/h	T (LBS)	V (LBS)
1.5	0.9	1010	1041
2.0	0.0	503	558



ANCHOR FORCE DIAGRAM

SAFE-T-PROOF™

SHEET NAME:
ATTACHMENT POINT
FORCES (CS-5100)

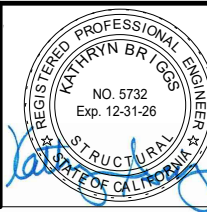
Page 17 of 28

Sysmex Equipment OPM

PROJECT NO: 23300 SCALE: NTS

DWN BY: NM

DATE: 9/17/25



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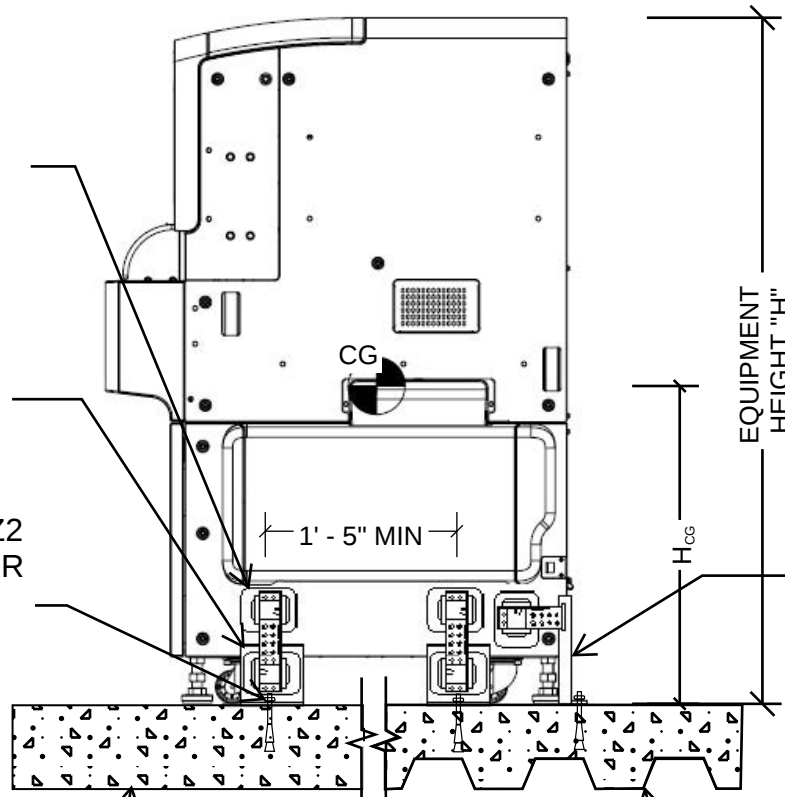
THE DRAWING AND SUBJECT MATTER DEPICTED
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(10) 4"x5"
SAFE-T-PROOF™
FASTENERS
(STP-FS-202) AND
3M™ VHB™ TAPE

(4) SAFE-T-PROOF™
5"x5-1/2"x2"x3/16"
THICK STEEL
BRACKET, SEE
PAGE 26

1/2" DIA. HILTI KB-TZ2
EXPANSION ANCHOR
(ICC ESR-4266) W/
2 1/2" EMBEDMENT,
TYP OF 6 PER UNIT

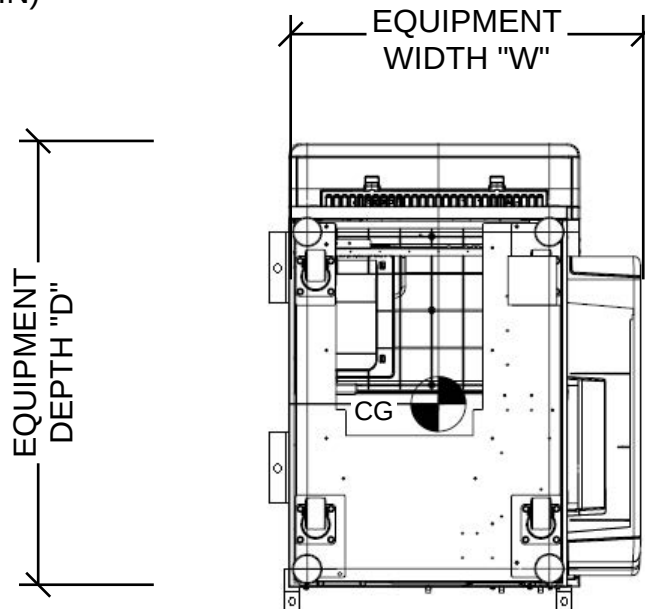
5" MIN NW CONC SLAB
(f'c = 3000 PSI MIN)



(2) SAFE-T-PROOF™
8"x2"x1-1/2"x3/16"
THICK STEEL
CORNER BRACKET,
SEE PAGE 26

3.25" MIN LW CONC FILL
OVER METAL DECK
(f'c = 3000 PSI MIN)

ELEVATION



PLAN

EQUIPMENT
SEE SHEET 3, FOR
DIMENSIONS, TYP.

SKU for Full Fastening Kit
by
SAFE-T-PROOF™:
STP-OPM-0707C

SAFE-T-PROOF™

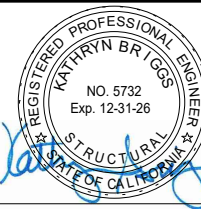
SHEET NAME:
UNIT CONFIGURATION
(CN-3000/6000)

Sysmex Equipment OPM

PROJECT NO: 23300 SCALE: NTS

DWN BY: NM

DATE: 9/17/25



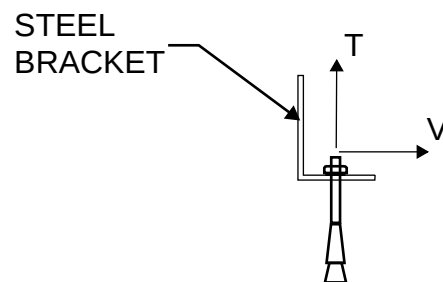
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SHEET NUMBER

CONCRETE ANCHOR FORCES (LRFD W/ OVERSTRENGTH FACTOR)

MAX SDS	MAX z/h	T (LBS)	V (LBS)
1.0	0.9	709	594
1.5	0.0	393	358
2.0	0.0	581	477



ANCHOR FORCE DIAGRAM

SAFE-T-PROOF™

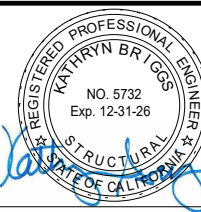
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ATTACHMENT POINT
FORCES (CN-6000)

Sysmex Equipment OPM

PROJECT NO: 23300 SCALE: NTS

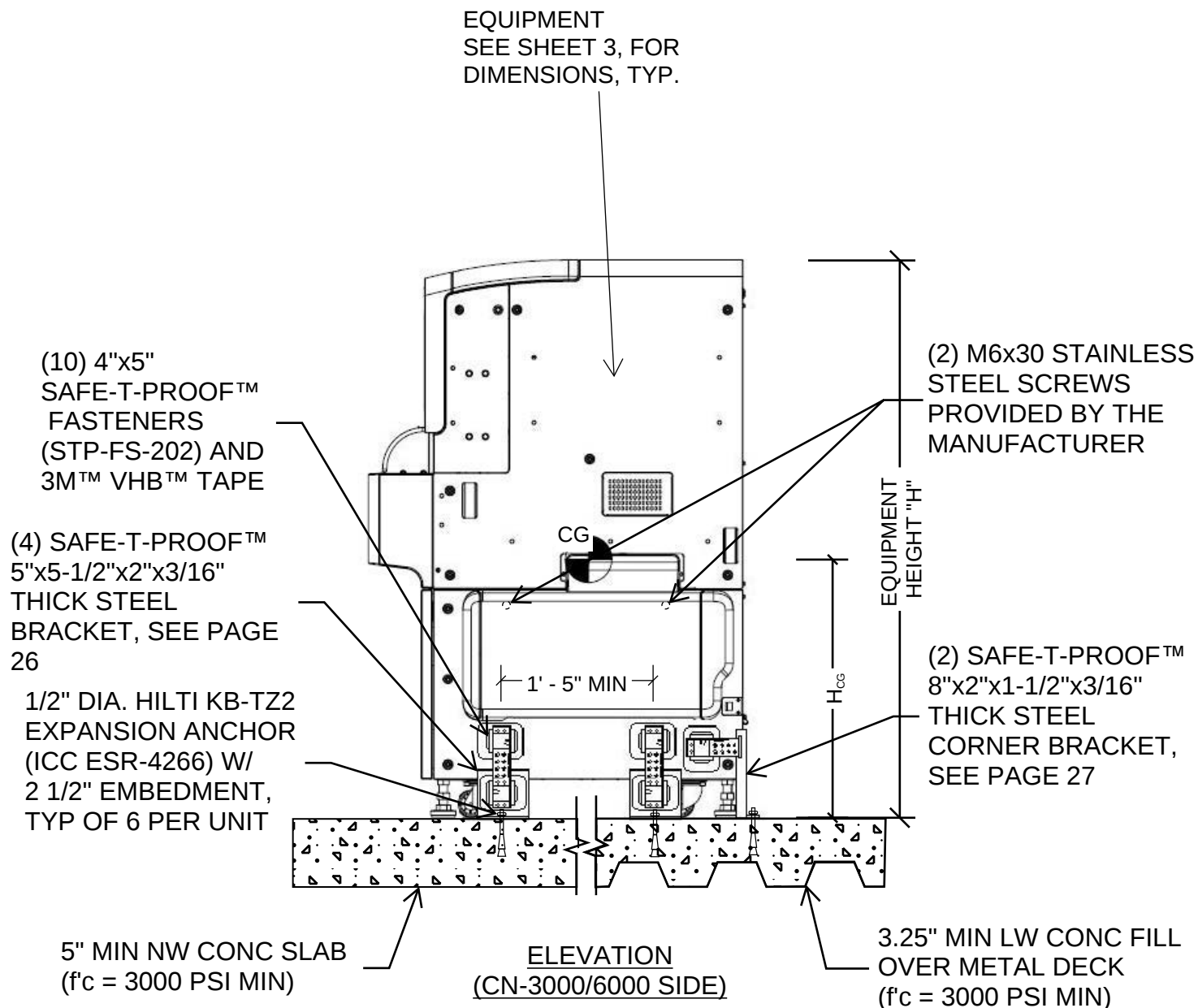
DWN BY: NM

DATE: 9/17/25



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SKU for Full Fastening Kit by
SAFE-T-PROOF™:
STP-OPM-0707C

SAFE-T-PROOF™

SHEET NAME:
UNIT CONFIGURATION
(CN-3000/6000 W/
SA-90)

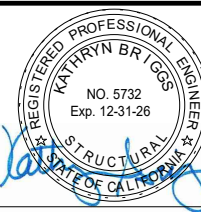
Page 20 of 28

Sysmex Equipment OPM

PROJECT NO: 23300 SCALE: NTS

DWN BY: NM

DATE: 9/17/25



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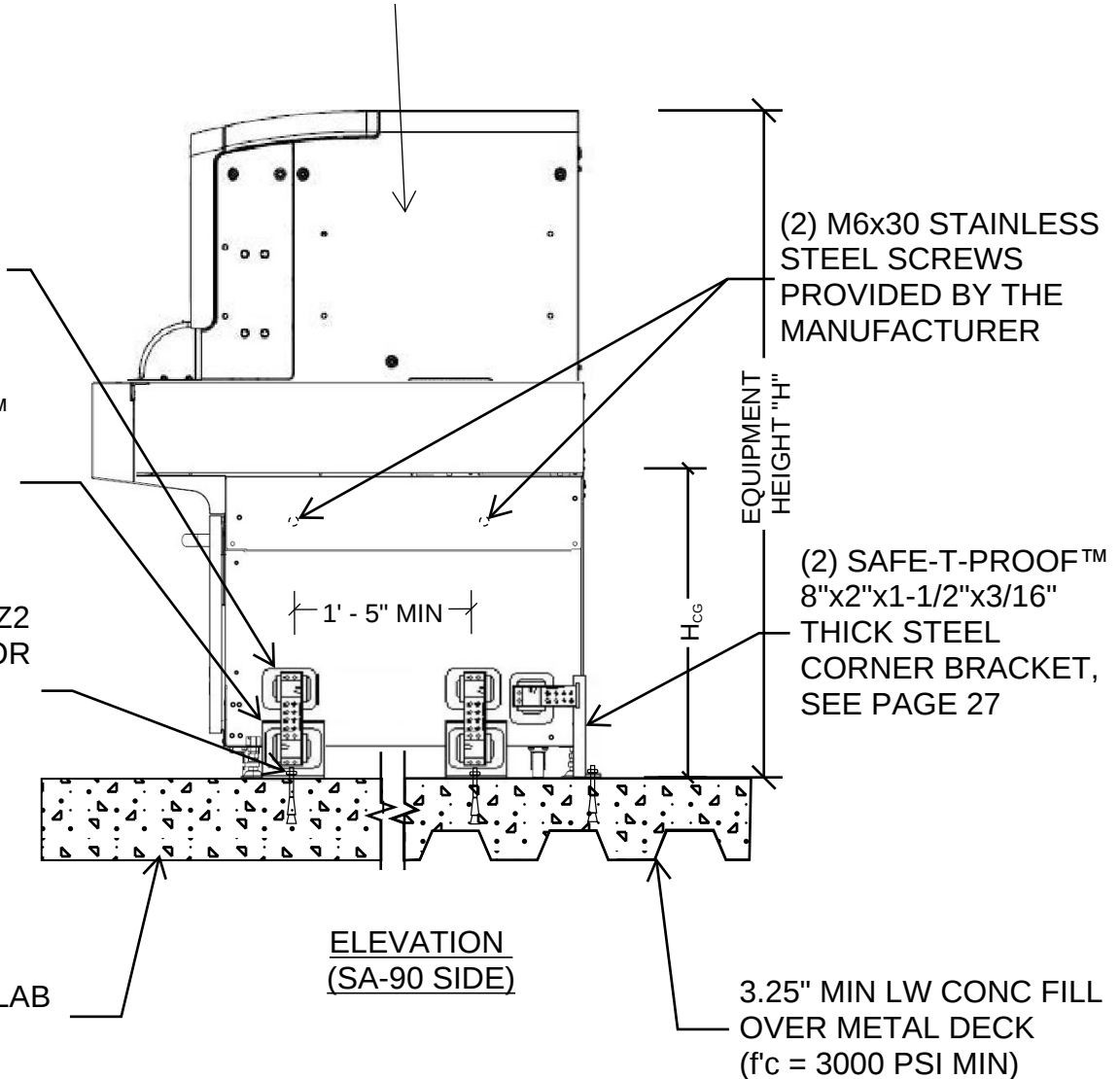
EQUIPMENT
SEE SHEET 3, FOR
DIMENSIONS, TYP.

(10) 4"x5"
SAFE-T-PROOF™
FASTENERS
(STP-FS-202) AND
3M™ VHB™ TAPE

(4) SAFE-T-PROOF™
5"x5-1/2"x2"x3/16"
THICK STEEL
BRACKET, SEE
PAGE 26

1/2" DIA. HILTI KB-TZ2
EXPANSION ANCHOR
(ICC ESR-4266) W/
2 1/2" EMBEDMENT,
TYP OF 6 PER UNIT

5" MIN NW CONC SLAB
(f'c = 3000 PSI MIN)



SKU for Full Fastening Kit by
SAFE-T-PROOF™:
STP-OPM-0707C

SAFE-T-PROOF™

SHEET NAME:
UNIT CONFIGURATION
(CN-3000/6000 W/
SA-90)

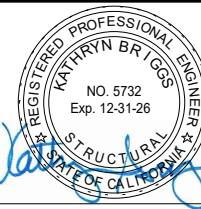
Page 21 of 28

Sysmex Equipment OPM

PROJECT NO: 23300 SCALE: NTS

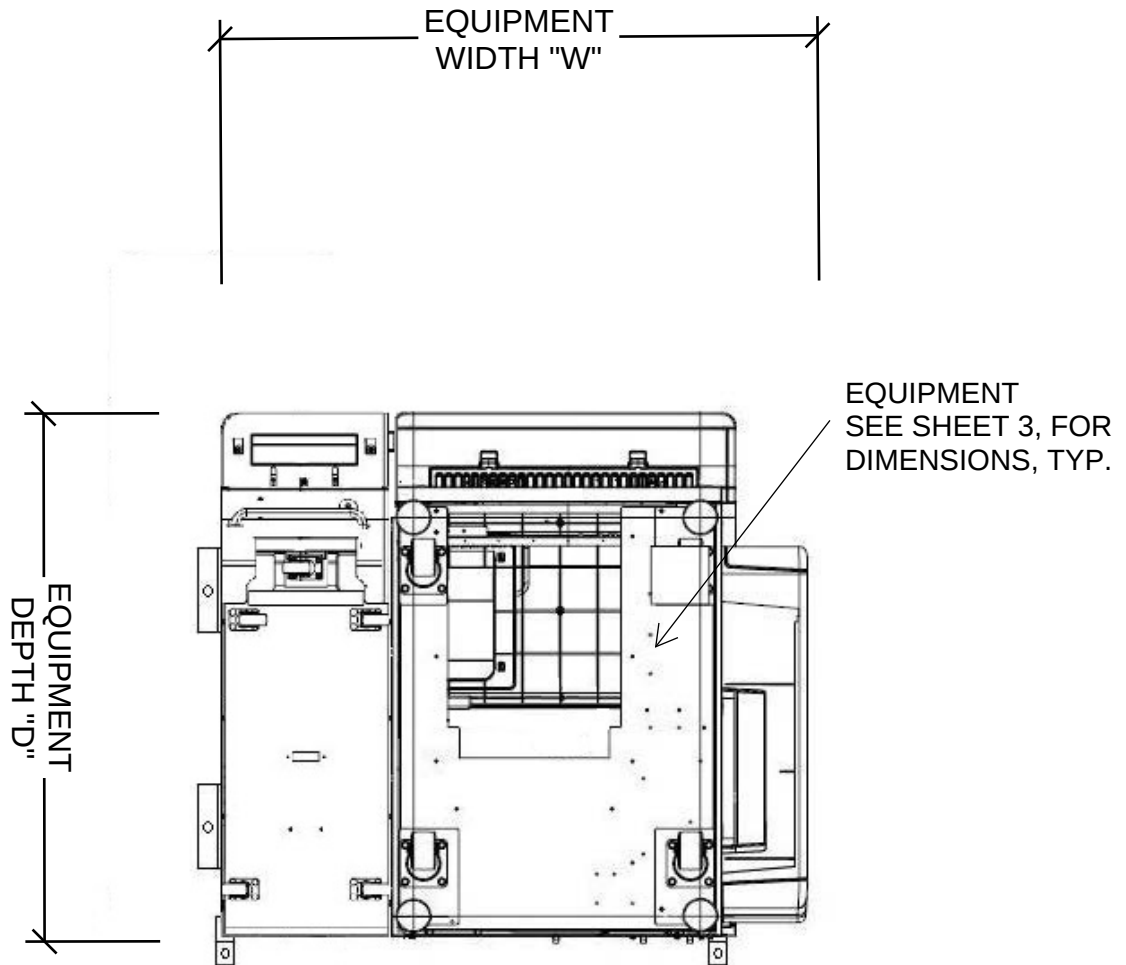
DWN BY: NM

DATE: 9/17/25



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PLAN (COMBINED CN-3000/6000 WITH SA-90)

SKU for Full Fastening Kit by
SAFE-T-PROOF™:
STP-OPM-0707C

SAFE-T-PROOF™

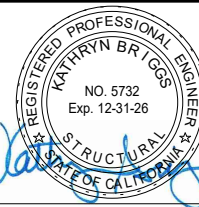
SHEET NAME:
UNIT CONFIGURATION
(CN-3000/6000 W/
SA-90)

Sysmex Equipment OPM

PROJECT NO: 23300 SCALE: NTS

DWN BY: NM

DATE: 9/17/25

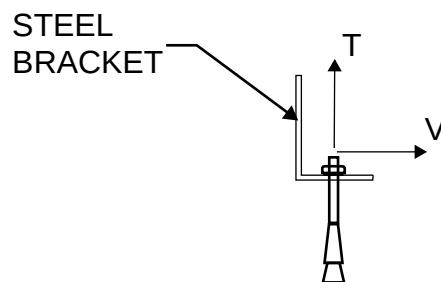


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CONCRETE ANCHOR FORCES (LRFD W/ OVERSTRENGTH FACTOR)

MAX SDS	MAX z/h	T (LBS)	V (LBS)
1.0	0.9	766	793
1.5	0.0	425	478
2.0	0.0	629	637



ANCHOR FORCE DIAGRAM

SAFE-T-PROOF™

SHEET NAME:
ATTACHMENT POINT
FORCES
(CN-3000/6000 W/
SA-90)

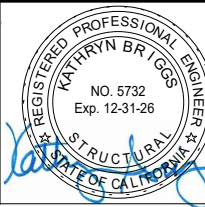
Page 23 of 28

Sysmex Equipment OPM

PROJECT NO: 23300 SCALE: NTS

DWN BY: NM

DATE: 9/17/25



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CO., INC.

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(4) 7"x8"
SAFE-T-PROOF™
FASTENERS
(STP-FS-204), STRAP
AND 3M™ VHB™ TAPE
ADHESIVE (ICC
ESR-4167)

(4) SAFE-T-PROOF™
9"x8"x2"x1/4" THICK
BRACKET, SEE
PAGE 28

1/2" DIA. HILTI KB-TZ2
EXPANSION ANCHOR
(ICC ESR-4266) W/
2 1/2" EMBEDMENT,
TYP OF 4 PER UNIT

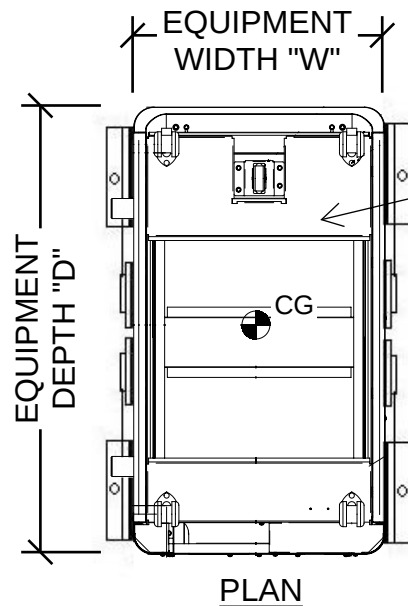
5" MIN NW CONC SLAB
(f'c = 3000 PSI MIN)

ELEVATION

(4) 5"x6"
SAFE-T-PROOF™
FASTENERS
(STP-FS-203),
STRAP AND 3M™
VHB™ TAPE
ADHESIVE (ICC
ESR-4167)

EQUIPMENT
HEIGHT "H"

3.25" MIN LW CONC FILL
OVER METAL DECK
(f'c = 3000 PSI MIN)



EQUIPMENT
SEE SHEET 3, FOR
DIMENSIONS, TYP.

SKU for Full Fastening Kit
by SAFE-T-PROOF™:
STP-OPM-0707B

SAFE-T-PROOF™

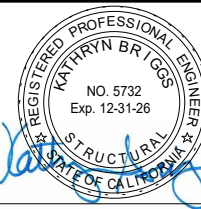
SHEET NAME:
UNIT CONFIGURATION
(IPU WAGON)

Sysmex Equipment OPM

PROJECT NO: 23300 SCALE: NTS

DWN BY: NM

DATE: 9/17/25

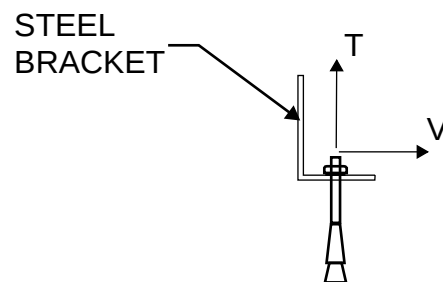


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CONCRETE ANCHOR FORCES (LRFD W/ OVERSTRENGTH FACTOR) AT EACH BRACKET

MAX SDS	MAX z/h	T (LBS)	V (LBS)
1.0	0.9	480	168
1.5	0.9	737	251
2.0	0.9	995	335



ANCHOR FORCE DIAGRAM

SAFE-T-PROOF™

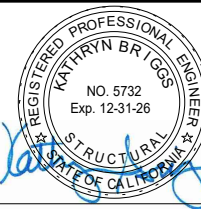
SHEET NAME:
ATTACHMENT POINT
FORCES (IPU WAGON)

Sysmex Equipment OPM

PROJECT NO: 23300 SCALE: NTS

DWN BY: NM

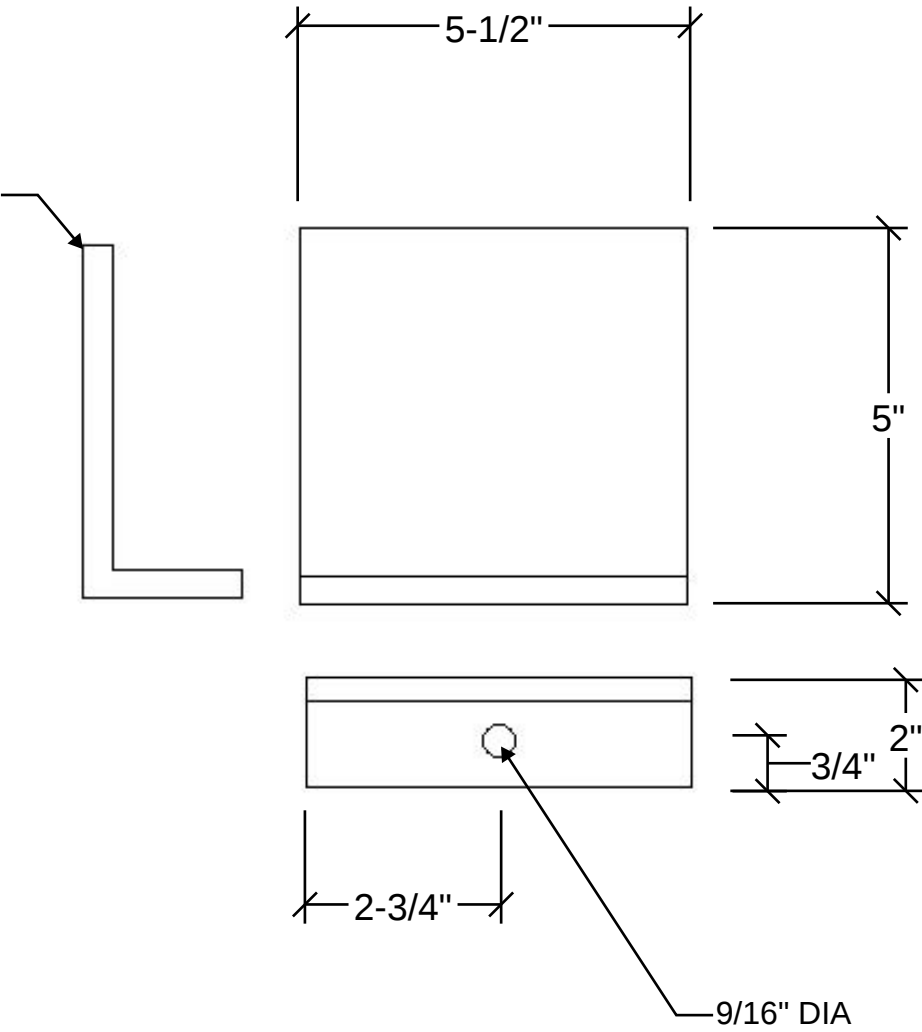
DATE: 9/17/25



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3/16" THICK
STEEL (ASTM A36)



SAFE-T-PROOF™

SHEET NAME:
BRACKET CLOSE UP
FOR CN-6000,
CN-3000/6000, AND
CN-3000/6000 W/
SA-90 ATTACHEMENT

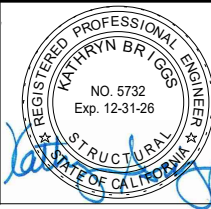
Page 26 of 28

Sysmex Equipment OPM

PROJECT NO: 23300 SCALE: NTS

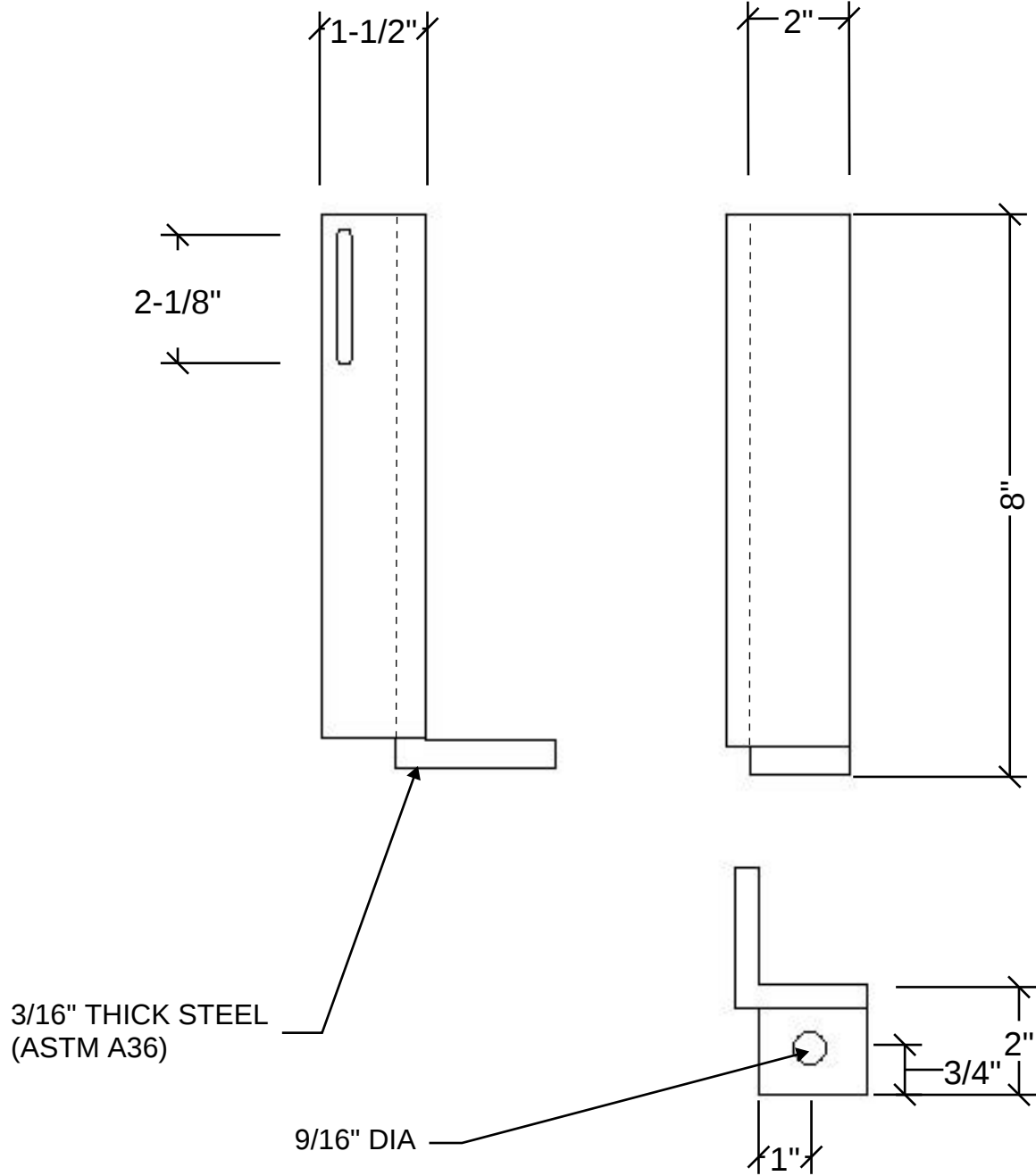
DWN BY: NM

DATE: 9/17/25



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SAFE-T-PROOF™

SHEET NAME:
BRACKET CLOSE UP
FOR CN-6000,
CN-3000/6000, AND
CN-3000/6000 W/
SA-90 ATTACHEMENT

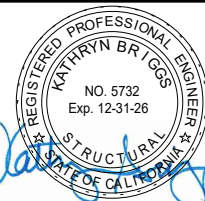
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Sysmex Equipment OPM

PROJECT NO: 23300 SCALE: NTS

DWN BY: NM

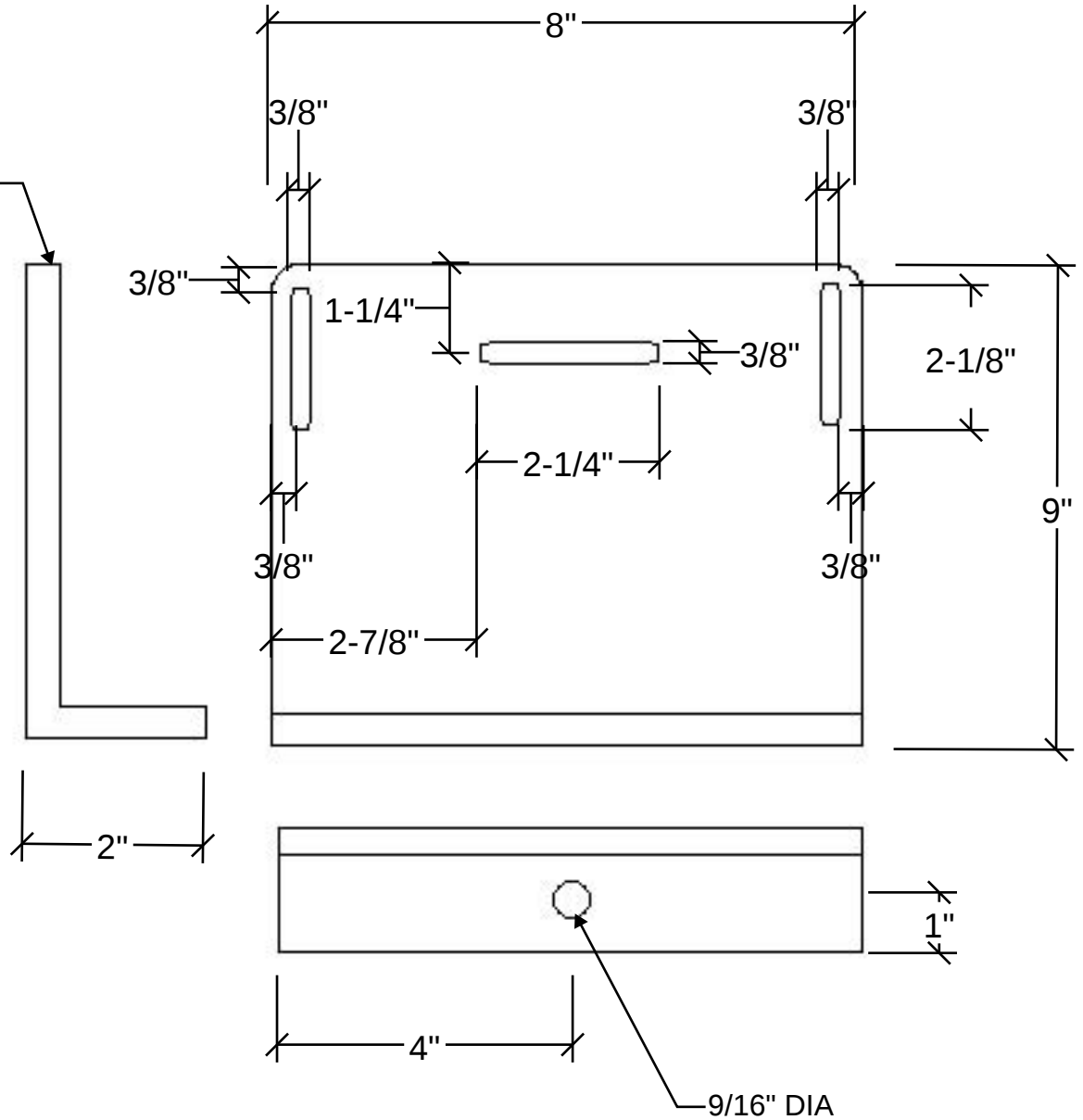
DATE: 9/17/25



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1/4" THICK
STEEL
(ASTM A36)



SAFE-T-PROOF™

SHEET NAME:
BRACKET CLOSE UP
FOR CS-5100 AND IPU
WAGON

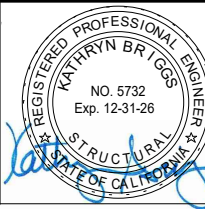
Page 28 of 28

Sysmex Equipment OPM

PROJECT NO: 23300 SCALE: NTS

DWN BY: NM

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