

4

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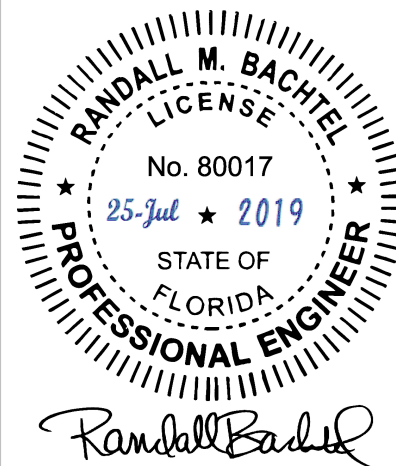
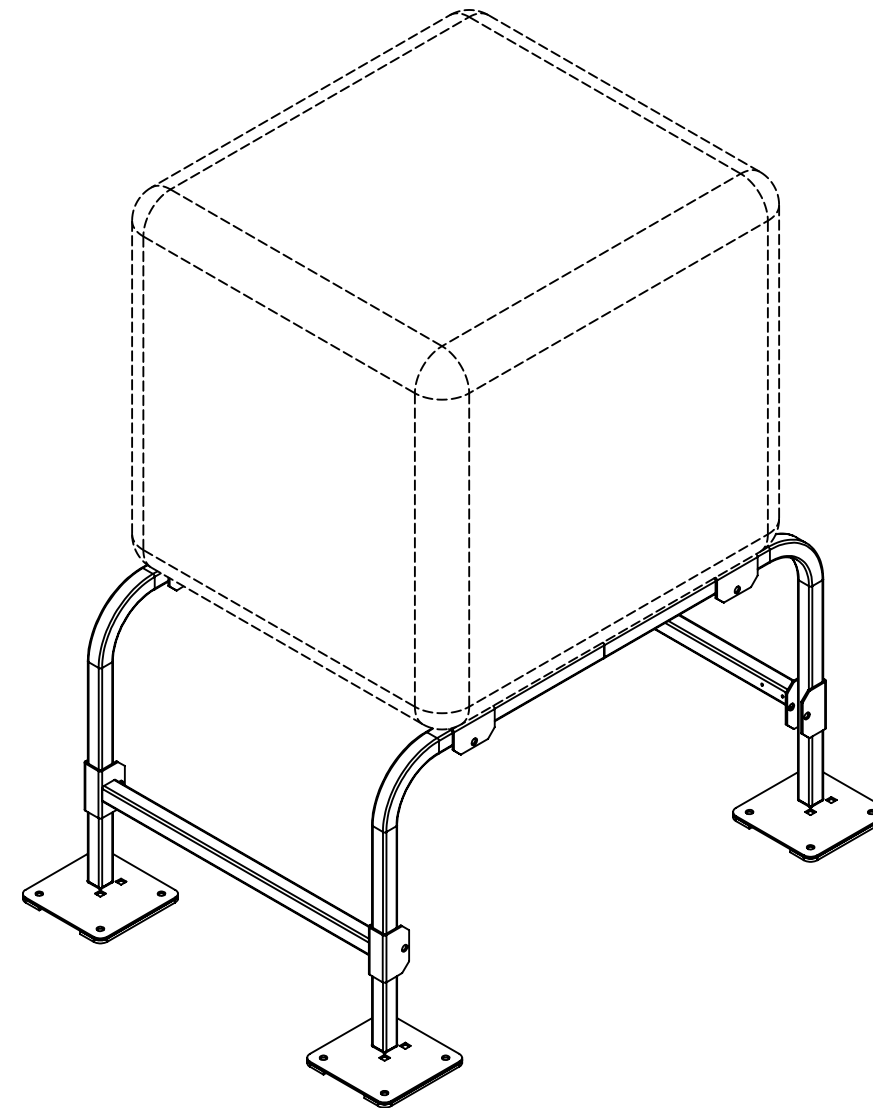
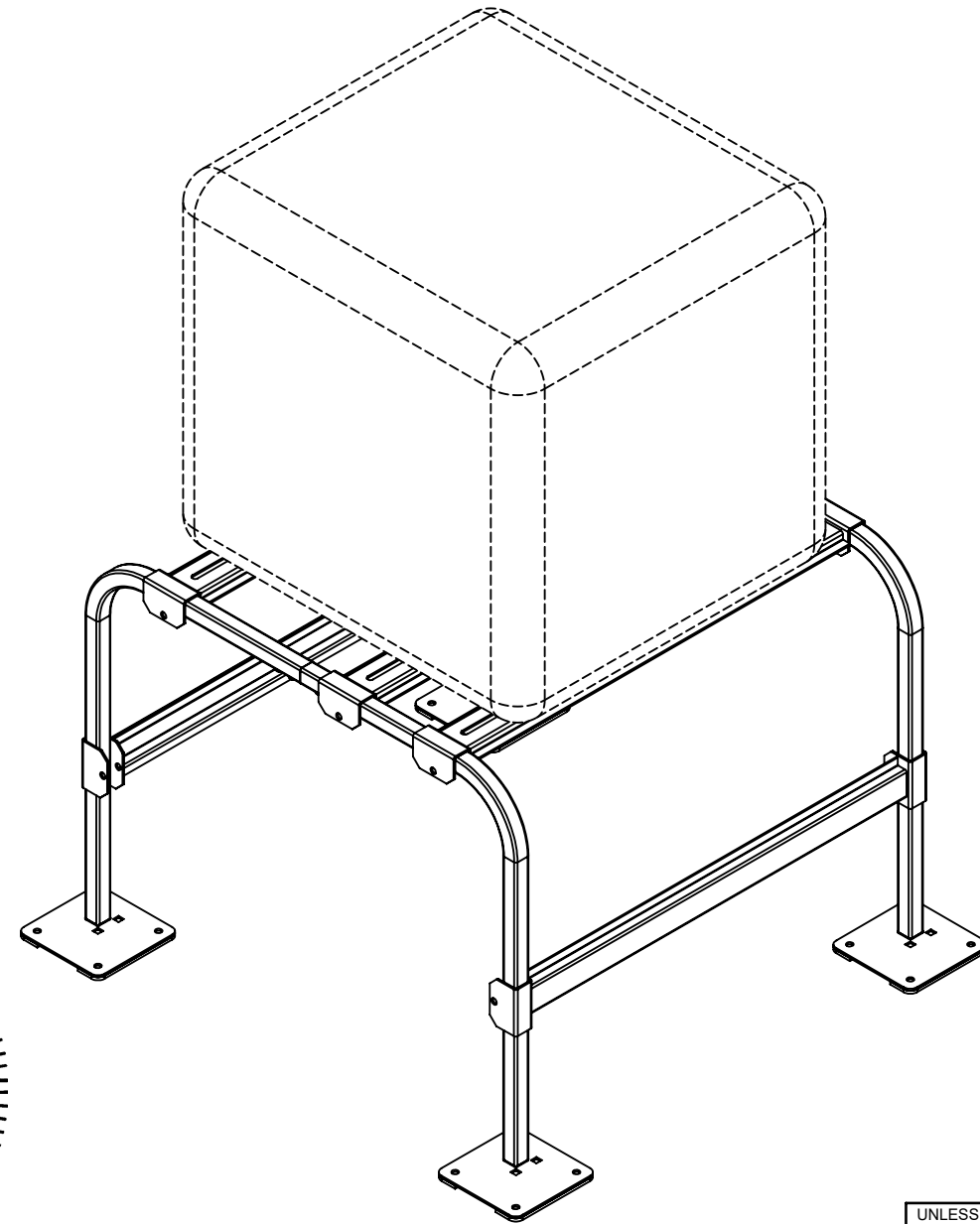
1

DIVERSITECH

QUICK SLING

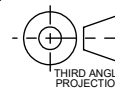
MINI-SPLIT STANDS

QUICK STANDS



UNLESS OTHERWISE SPECIFIED:
 DIMENSIONS ARE IN INCHES [MILLIMETERS]
 TOLERANCES ARE: ANGLES ±1.0°
 FRACTIONAL SIZES X/Y ±1/64

INCHES	[MILLIMETERS]
X = ±0.1	[X = ± 2.5]
.XX = ±0.01	[.X = ± 1.3]
.XXX = ±0.005	[.XX = ±0.13]



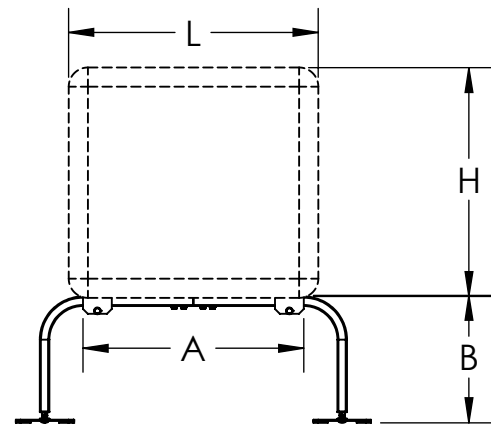
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	<small>DWG. NO.</small> FL-22415.3	<small>REV.</small> R1
		<small>SHEET</small> 1 OF 23

4

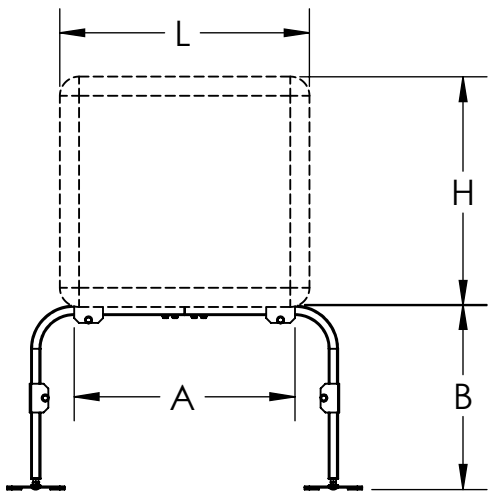
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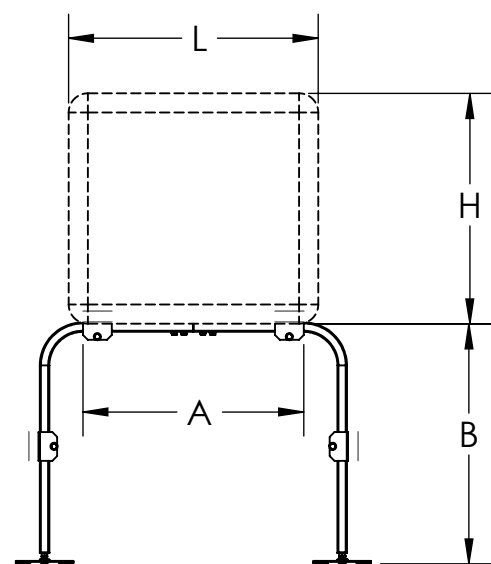
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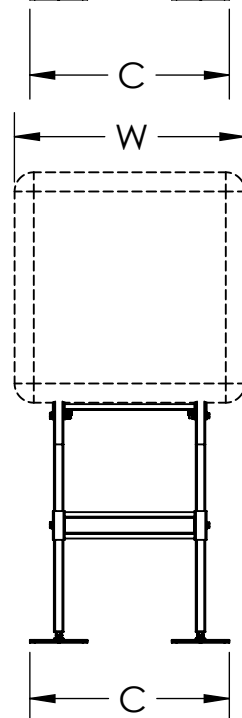
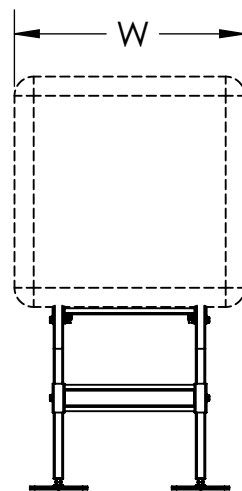
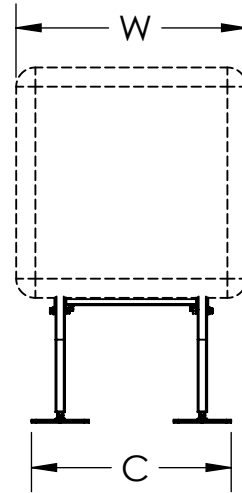
QSMS1200/1201/1201M/1201SS/1202



QSMS1800/1801/1801M/1801SS/1802

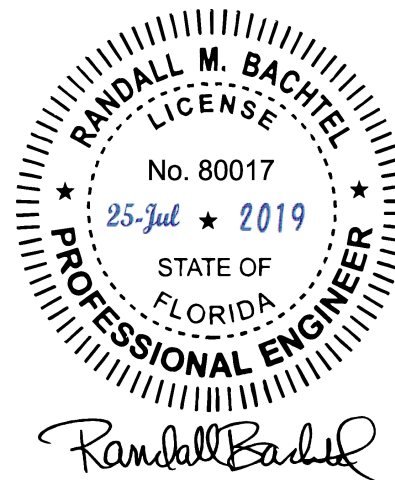


QSMS2400/2401/2401M/2401SS/2402



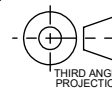
CONFIGURATION	DIMENSION A	DIMENSION B	DIMENSION C
QSMS1200 NARROW	6"	13.3"	20.8"
QSMS1200 WIDE	29"	13.3"	20.8"
QSMS1201 NARROW	6"	13.3"	25.3"
QSMS1201 WIDE	29"	13.3"	25.3"
QSMS1201M NARROW	6"	13.3"	25.3"
QSMS1201M WIDE	29"	13.3"	25.3"
QSMS1201SS NARROW	6"	13.3"	25.3"
QSMS1201SS WIDE	29"	13.3"	25.3"
QSMS1202 NARROW	6"	13.3"	35.3"
QSMS1202 WIDE	29"	13.3"	35.3"
QSMS1800 NARROW	6"	19.3"	20.8"
QSMS1800 WIDE	29"	19.3"	20.8"
QSMS1801 NARROW	6"	19.3"	20.8"
QSMS1801 WIDE	29"	19.3"	25.3"
QSMS1801M NARROW	6"	19.3"	25.3"
QSMS1801M WIDE	29"	19.3"	25.3"
QSMS1801SS NARROW	6"	19.3"	25.3"
QSMS1801SS WIDE	29"	19.3"	25.3"
QSMS1802 NARROW	6"	19.3"	35.3"
QSMS1802 WIDE	29"	19.3"	35.3"
QSMS2400 NARROW	6"	25.3"	20.8"
QSMS2400 WIDE	29"	25.3"	20.8"
QSMS2401 NARROW	6"	25.3"	25.3"
QSMS2401 WIDE	29"	25.3"	25.3"
QSMS2401M NARROW	6"	25.3"	25.3"
QSMS2401M WIDE	29"	25.3"	25.3"
QSMS2401SS NARROW	6"	25.3"	25.3"
QSMS2401SS WIDE	29"	25.3"	25.3"
QSMS2402 NARROW	6"	25.3"	35.3"
QSMS2402 WIDE	29"	25.3"	35.3"

CONFIGURATION	DIMENSION L MAXIMUM	DIMENSION W MAXIMUM	DIMENSION H MAXIMUM
QSMS1200	22"	12"	32"
QSMS1201	38"	13"	42"
QSMS1201M	38"	13"	42"
QSMS1201SS	38"	13"	42"
QSMS1202	42"	13"	53"
QSMS1800	22"	12"	32"
QSMS1801	38"	13"	42"
QSMS1801M	38"	13"	42"
QSMS1801SS	38"	13"	42"
QSMS1802	42"	13"	53"
QSMS2400	22"	12"	32"
QSMS2401	38"	13"	42"
QSMS2401M	38"	13"	42"
QSMS2401SS	38"	13"	42"
QSMS2402	42"	13"	53"



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 TOLERANCES ARE: ANGLES ±1.0°
 FRACTIONAL SIZES X/Y ±1/64

INCHES	[MILLIMETERS]
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.XX = ±0.01	[.X = ± 1.3]
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	DESCRIPTION	

THE QSMS1200/1201/1202/1800/1801/1802/2400/2401/2402 AND THEIR VARIANTS ARE TO SUPPORT GENERAL CONDENSER SYSTEMS IN H.V.H.Z. (180 M.P.H.)

THESE STANDS ARE DESIGNED TO SUPPORT ONE CONDENSER EACH. CONDENSER UNITS SUPPORTED CAN VARY BY MODEL, BY SIZE, AND BY WEIGHT.

MAX. WEIGHT OF CONDENSER EQUIPMENT SUPPORTED ON ANY INDIVIDUAL STAND IS 500 LBS.

EACH OF THESE STANDS REQUIRES 16 CORROSION RESISTANT ANCHOR POINTS (4 PER FOOT) INTO THE ROOF OR CURB STRUCTURE.

(PER IBC Eq.16-15) EACH OF THESE ANCHOR POINTS MUST HAVE:

1. A MINIMUM TENSION RATED CAPACITY OF 900 lbs.
2. A MINIMUM SHEAR RATED CAPACITY OF 100 lbs.

MAXIMUM DOWNWARD FOOT REACTION (PER FOOT) ON SUPPORTING ROOF OR CURB IS 300 LBS. OR LESS (IBC Eq. 16-12)

H OR HT OR HMD HURRICANE PADS FROM DIVERSITECH CAN BE USED AS A CURB STRUCTURE TO AVOID ROOF PENETRATION.
A REGISTERED PROFESSIONAL ENGINEER MUST PROVIDE ALL THE SUPPORTING CALCULATIONS FOR THIS FORM OF STAND SUPPORT.

THE QSMS1205/1805/2405 AND QSTD3000/3001 AND THEIR VARIANTS ARE TO SUPPORT GENERAL CONDENSER SYSTEMS IN H.V.H.Z. (180 M.P.H.)

THESE STANDS ARE DESIGNED TO SUPPORT ONE CONDENSER EACH. CONDENSER UNITS SUPPORTED CAN VARY BY MODEL, BY SIZE, AND BY WEIGHT.

MAX. WEIGHT OF CONDENSER EQUIPMENT SUPPORTED ON ANY INDIVIDUAL STAND IS 500 LBS.

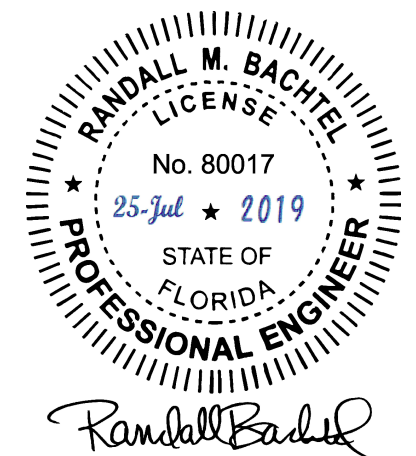
EACH OF THESE STANDS REQUIRES 16 CORROSION RESISTANT ANCHOR POINTS (4 PER FOOT) INTO THE ROOF OR CURB STRUCTURE.

(PER IBC Eq.16-15) EACH OF THESE ANCHOR POINTS MUST HAVE:

1. A MINIMUM TENSION RATED CAPACITY OF 900 lbs.
2. A MINIMUM SHEAR RATED CAPACITY OF 100 lbs.

MAXIMUM DOWNWARD FOOT REACTION (PER FOOT) ON SUPPORTING ROOF OR CURB IS 300 LBS. OR LESS (IBC Eq. 16-12)

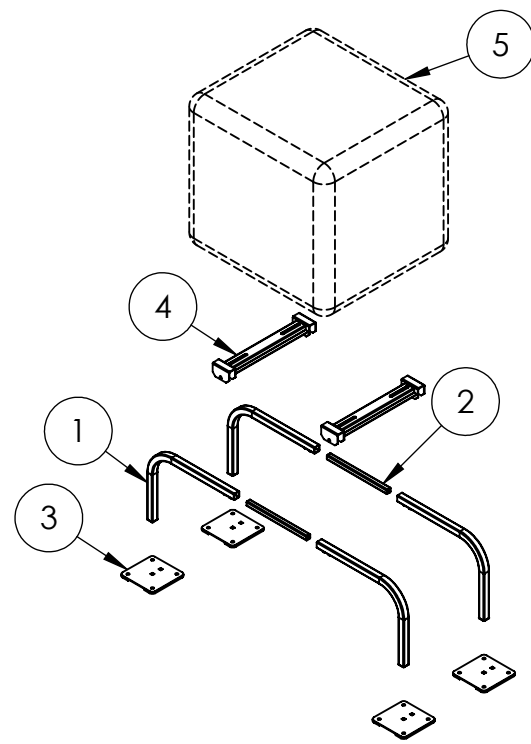
H OR HT OR HMD HURRICANE PADS FROM DIVERSITECH CAN BE USED AS A CURB STRUCTURE TO AVOID ROOF PENETRATION.
A REGISTERED PROFESSIONAL ENGINEER MUST PROVIDE ALL THE SUPPORTING CALCULATIONS FOR THIS FORM OF STAND SUPPORT.



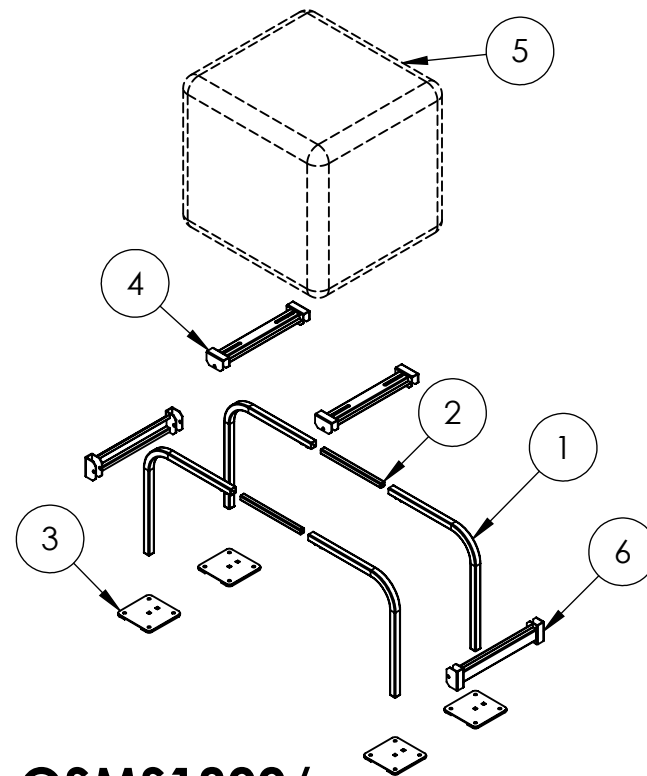
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TOLERANCES ARE: ANGLES ±1.0°	
FRACTIONAL SIZES X/Y ±1/64	
INCHES	[MILLIMETERS]
.X = ±0.1	[X = ± 2.5]
.XX = ±0.01	[.X = ± 1.3]
.XXX = ±0.005	[.XX = ±0.13]
 THIRD ANGLE PROJECTION	



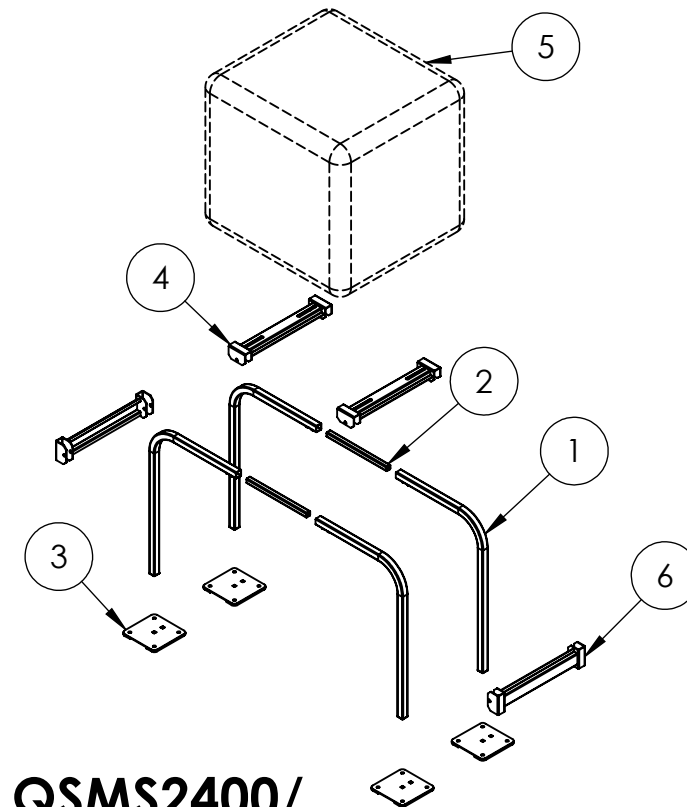
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	DWG. NO.	GMS.
DESCRIPTION	FL-22415.3	REV.
		R1
		SHEET
		3 OF 23



**QSMS1200/
1201/1201M/1201SS/1202**

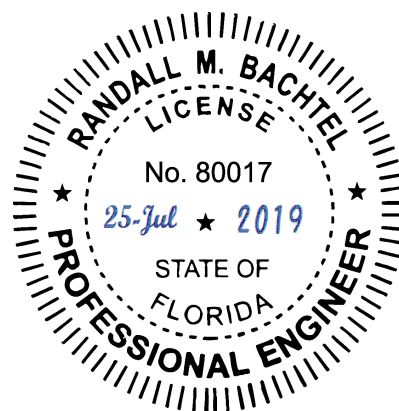


**QSMS1800/
1801/1801M/1801SS/1802**



**QSMS2400/
2401/2401M/2401SS/2402**

CONFIGURATION	PART 1	PART 2	PART 3	PART 4	PART 5	PART 6
QSMS1200	MS107	MS106	MS105	MS128	Equipment Package	-
QSMS1201	MS107	MS106	MS105	MS119	Equipment Package	-
QSMS1201M	MS107M	MS106M	MS105M	MS119M	Equipment Package	-
QSMS1201SS	MS107SS	MS106SS	MS105SS	MS119SS	Equipment Package	-
QSMS1202	MS107	MS106	MS105	MS111	Equipment Package	-
QSMS1800	MS110	MS106	MS105	MS128	Equipment Package	MS113
QSMS1801	MS110	MS106	MS105	MS119	Equipment Package	MS114
QSMS1801M	MS110M	MS106M	MS105M	MS119M	Equipment Package	MS114M
QSMS1801SS	MS110SS	MS106SS	MS105SS	MS119SS	Equipment Package	MS114SS
QSMS1802	MS110	MS106	MS105	MS111	Equipment Package	MS115
QSMS2400	MS116	MS106	MS105	MS128	Equipment Package	MS113
QSMS2401	MS116	MS106	MS105	MS119	Equipment Package	MS114
QSMS2401M	MS116M	MS106M	MS105M	MS119M	Equipment Package	MS114M
QSMS2401SS	MS116SS	MS106SS	MS105SS	MS119SS	Equipment Package	MS114SS
QSMS2402	MS116	MS106	MS105	MS111	Equipment Package	MS115



Randall Bachtel

NOTE - ALL ASSEMBLY HARDWARE IS INCLUDED

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DIMENSIONS ARE IN INCHES [MILLIMETERS]
TOLERANCES ARE: ANGLES ±1.0°
FRACTIONAL SIZES X/Y ±1/64

INCHES	[MILLIMETERS]
X = ±0.1	[X = ± 2.5]
.XX = ±0.01	[.X = ± 1.3]
.XXX = ±0.005	[.XX = ±0.13]

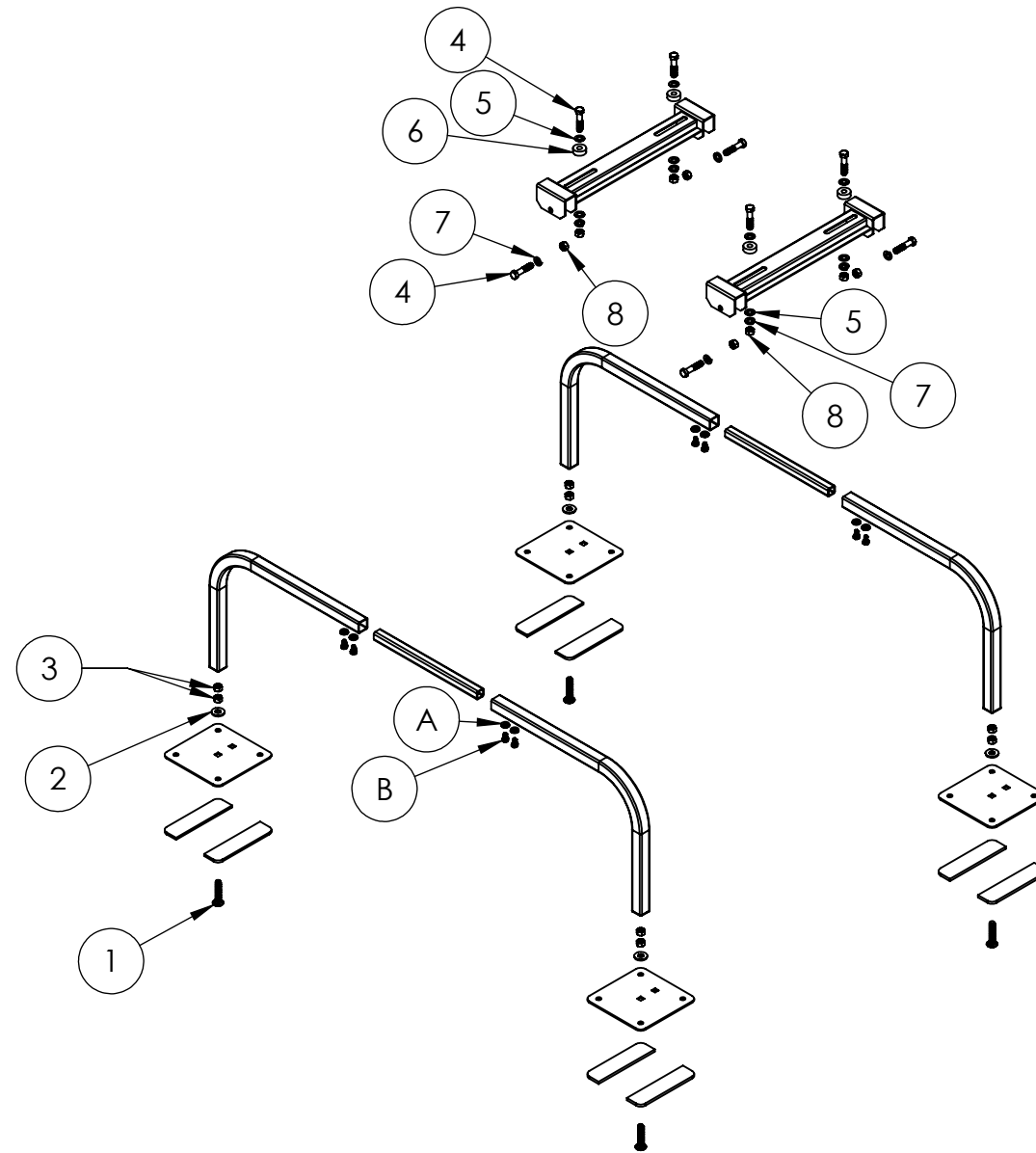
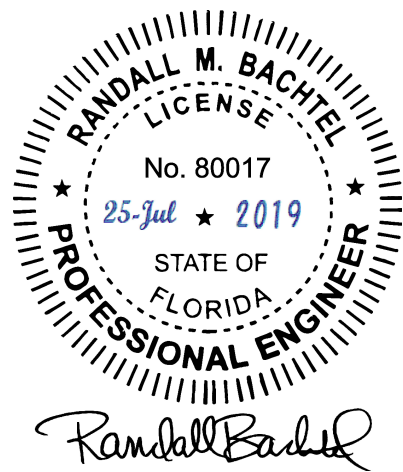
THIRD ANGLE PROJECTION



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ASSEMBLY: QSMS3001
DWG. NO. FL-22415.3

WEIGHT
GMS.
REV.
R1
SHEET
4 OF 23



QSMS1200/1201/1201SS/1202

A-1/4 IN BONDED WASHER
 B-1/4-20X1/2 IN ZINC HEX BOLT
 PARTS A AND B ARE PART OF THE
 BOXED ASSEMBLY, SO NOT INCLUDED
 IN THE BAGGED HARDWARE KIT

CONFIGURATION	HARDWARE KIT	PART 1	QTY	PART 2	QTY	PART 3	QTY	PART 4	QTY	PART 5	QTY	PART 6	QTY	PART 7	QTY	PART 8	QTY
QSMS1200	HDKMS01	3/8-16X2 IN CARRAGE BOLT ZINC	4	3/8 IN BONDED WASHER	4	3/8 IN HEX NUT ZINC	8	3/8-16X1 3/4 IN HEX BOLT GALV	8	3/8 IN WASHER GALV	8	1 X 3/8 X 3/8 IN RUBBER WASHER	4	3/8 IN SPLIT WASHER GALV	8	3/8-16 HEX NUT GALV	8
QSMS1201	HDKMS01	3/8-16X2 IN CARRAGE BOLT ZINC	4	3/8 IN BONDED WASHER	4	3/8 IN HEX NUT ZINC	8	3/8-16X1 3/4 IN HEX BOLT GALV	8	3/8 IN WASHER GALV	8	1 X 3/8 X 3/8 IN RUBBER WASHER	4	3/8 IN SPLIT WASHER GALV	8	3/8-16 HEX NUT GALV	8
QSMS1201M	HDKMS01	3/8-16X2 IN CARRAGE BOLT ZINC	4	3/8 IN BONDED WASHER	4	3/8 IN HEX NUT ZINC	8	3/8-16X1 3/4 IN HEX BOLT GALV	8	3/8 IN WASHER GALV	8	1 X 3/8 X 3/8 IN RUBBER WASHER	4	3/8 IN SPLIT WASHER GALV	8	3/8-16 HEX NUT GALV	8
QSMS1201SS	HDKMS01SS	3/8-16X2 IN CARRAGE BOLT STAINLESS	4	3/8 IN BONDED WASHER	4	3/8 IN HEX NUT STAINLESS	8	3/8-16X1 3/4 IN HEX BOLT STAINLESS	8	3/8 IN WASHER STAINLESS	8	1 X 3/8 X 3/8 IN RUBBER WASHER	4	3/8 IN SPLIT WASHER STAINLESS	8	3/8-16 HEX NUT STAINLESS	8
QSMS1202	HDKMS02	3/8-16X2 IN CARRAGE BOLT ZINC	4	3/8 IN BONDED WASHER	4	3/8 IN HEX NUT ZINC	8	3/8-16X1 3/4 IN HEX BOLT GALV	8	3/8 IN WASHER GALV	16	1 X 3/8 X 3/8 IN RUBBER WASHER	4	3/8 IN SPLIT WASHER GALV	8	3/8-16 HEX NUT GALV	8

NOTE - ALL ASSEMBLY HARDWARE IS INCLUDED

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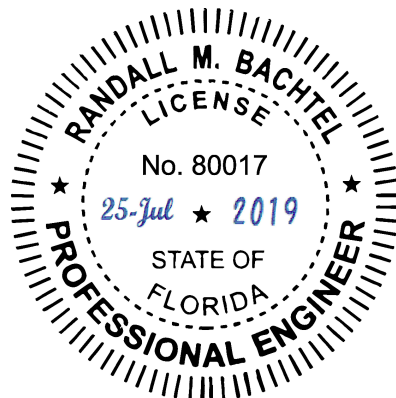
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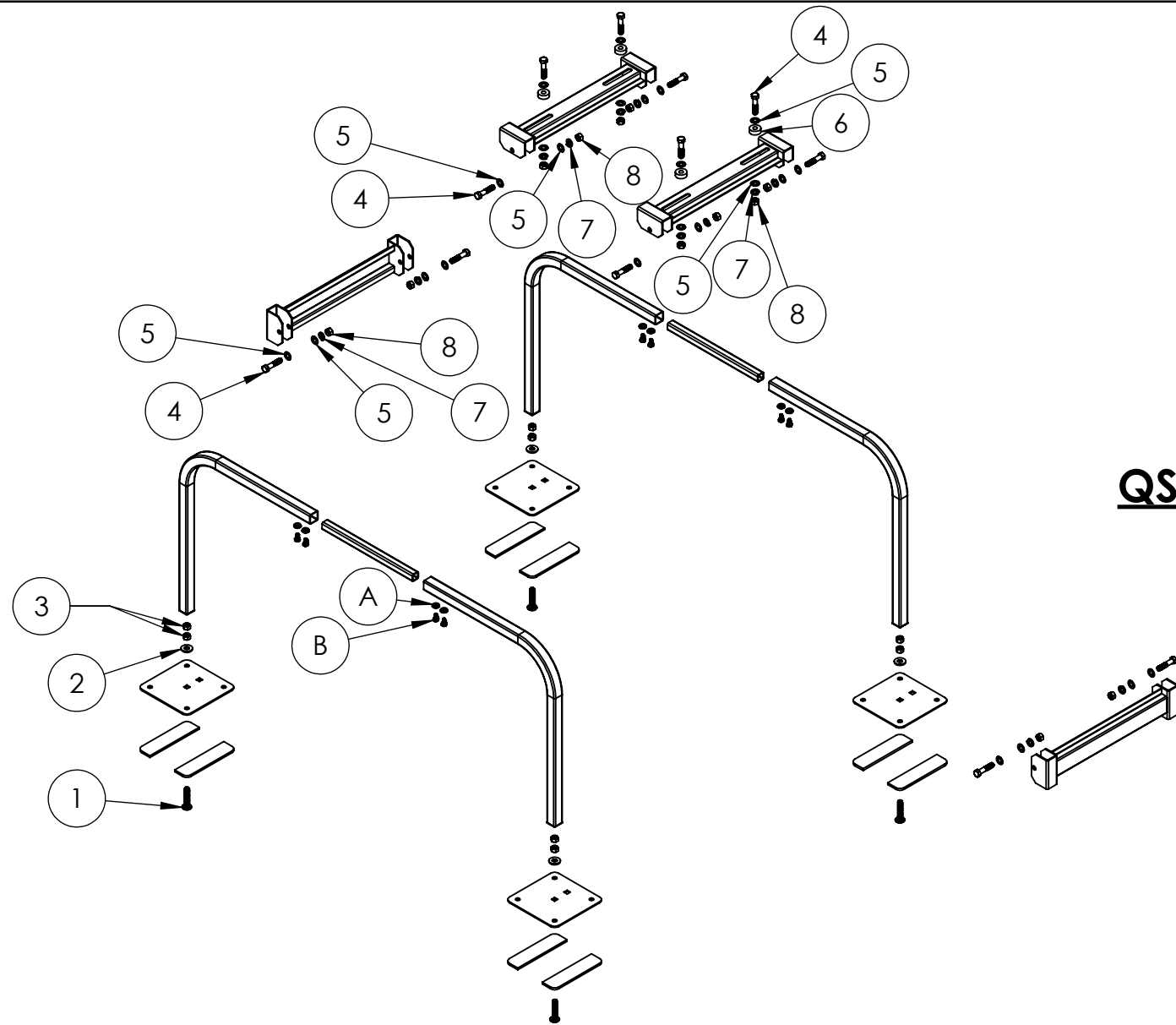
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 DO NOT SCALE DRAWING
 DESCRIPTION

ASSEMBLY: QSMS3001
 DWG. NO. **FL-22415.3**

WEIGHT
 GMS.
 REV.
R1
 SHEET
 5 OF 23



Randall Bachtel



QSMS1800/1801/1801SS/1802

A-1/4 IN BONDED WASHER
 B-1/4-20X1/2 IN ZINC HEX BOLT
 PARTS A AND B ARE PART OF THE
 BOXED ASSEMBLY, SO NOT INCLUDED
 IN THE BAGGED HARDWARE KIT

CONFIGURATION	HARDWARE KIT	PART 1	QTY	PART 2	QTY	PART 3	QTY	PART 4	QTY	PART 5	QTY	PART 6	QTY	PART 7	QTY	PART 8	QTY
QSMS1800	HDKMS05	3/8-16X2 IN CARRAGE BOLT ZINC	4	3/8 IN BONDED WASHER	4	3/8 IN HEX NUT ZINC	8	3/8-16X1 3/4 IN HEX BOLT GALV	12	3/8 IN WASHER GALV	24	1 X 3/8 X 3/8 IN RUBBER WASHER	4	3/8 IN SPLIT WASHER GALV	12	3/8-16 HEX NUT GALV	12
QSMS1801	HDKMS05	3/8-16X2 IN CARRAGE BOLT ZINC	4	3/8 IN BONDED WASHER	4	3/8 IN HEX NUT ZINC	8	3/8-16X1 3/4 IN HEX BOLT GALV	12	3/8 IN WASHER GALV	24	1 X 3/8 X 3/8 IN RUBBER WASHER	4	3/8 IN SPLIT WASHER GALV	12	3/8-16 HEX NUT GALV	12
QSMS1801M	HDKMS05	3/8-16X2 IN CARRAGE BOLT ZINC	4	3/8 IN BONDED WASHER	4	3/8 IN HEX NUT ZINC	8	3/8-16X1 3/4 IN HEX BOLT GALV	12	3/8 IN WASHER GALV	24	1 X 3/8 X 3/8 IN RUBBER WASHER	4	3/8 IN SPLIT WASHER GALV	12	3/8-16 HEX NUT GALV	12
QSMS1801SS	HDKMS05SS	3/8-16X2 IN CARRAGE BOLT STAINLES	4	3/8 IN BONDED WASHER	4	3/8 IN HEX NUT STAINLESS	8	3/8-16X1 3/4 IN HEX BOLT STAINLESS	12	3/8 IN WASHER STAINLESS	24	1 X 3/8 X 3/8 IN RUBBER WASHER	4	3/8 IN SPLIT WASHER STAINLESS	12	3/8-16 HEX NUT STAINLESS	12
QSMS1802	HDKMS05	3/8-16X2 IN CARRAGE BOLT ZINC	4	3/8 IN BONDED WASHER	4	3/8 IN HEX NUT ZINC	8	3/8-16X1 3/4 IN HEX BOLT GALV	12	3/8 IN WASHER GALV	24	1 X 3/8 X 3/8 IN RUBBER WASHER	4	3/8 IN SPLIT WASHER GALV	12	3/8-16 HEX NUT GALV	12

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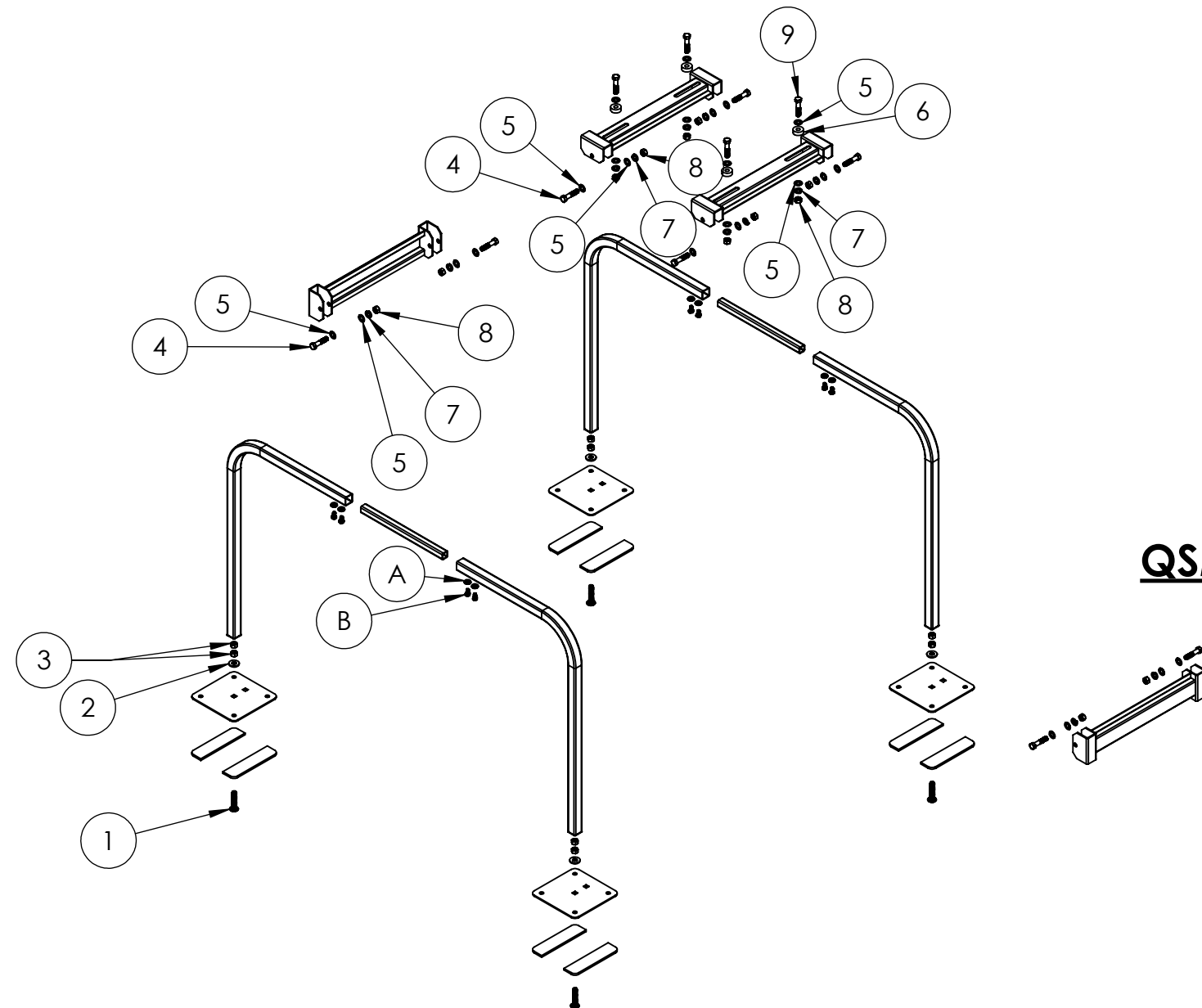
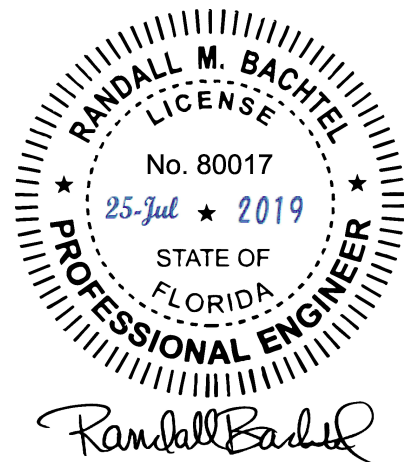
THIRD ANGLE PROJECTION



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 DO NOT SCALE DRAWING

ASSEMBLY: QSMS3001
 DWG. NO. FL-22415.3

WEIGHT
 GMS.
 REV.
R1
 SHEET
 6 OF 23



QSMS2400/2401/2401SS/2402

A-1/4 IN BONDED WASHER
 B-1/4-20X1/2 IN ZINC HEX BOLT
 PARTS A AND B ARE PART OF THE
 BOXED ASSEMBLY, SO NOT INCLUDED
 IN THE BAGGED HARDWARE KIT

CONFIGURATION	HARDWARE KIT	PART 1	QTY	PART 2	QTY	PART 3	QTY	PART 4	QTY	PART 5	QTY	PART 6	QTY	PART 7	QTY	PART 8	QTY	PART 9	QTY
QSMS2400	HDKMS05	3/8-16X2 IN CARRAGE BOLT ZINC	4	3/8 IN BONDED WASHER	4	3/8 IN HEX NUT ZINC	8	3/8-16X1 3/4 IN HEX BOLT GALV	12	3/8 IN WASHER GALV	24	1 X 3/8 X 3/8 IN RUBBER WASHER	4	3/8 IN SPLIT WASHER GALV	12	3/8-16 HEX NUT GALV	12	-	-
QSMS2401	HDKMS05	3/8-16X2 IN CARRAGE BOLT ZINC	4	3/8 IN BONDED WASHER	4	3/8 IN HEX NUT ZINC	8	3/8-16X1 3/4 IN HEX BOLT GALV	12	3/8 IN WASHER GALV	24	1 X 3/8 X 3/8 IN RUBBER WASHER	4	3/8 IN SPLIT WASHER GALV	12	3/8-16 HEX NUT GALV	12	-	-
QSMS2401M	HDKMS05	3/8-16X2 IN CARRAGE BOLT ZINC	4	3/8 IN BONDED WASHER	4	3/8 IN HEX NUT ZINC	8	3/8-16X1 3/4 IN HEX BOLT GALV	12	3/8 IN WASHER GALV	24	1 X 3/8 X 3/8 IN RUBBER WASHER	4	3/8 IN SPLIT WASHER GALV	12	3/8-16 HEX NUT GALV	12	-	-
QSMS2401SS	HDKMS04SS	3/8-16X2 IN CARRAGE BOLT STAINLES	4	3/8 IN BONDED WASHER	4	3/8 IN HEX NUT STAINLESS	8	3/8-16X1 3/4 IN HEX BOLT STAINLESS	8	3/8 IN WASHER STAINLESS	8	1 X 3/8 X 3/8 IN RUBBER WASHER	4	3/8 IN SPLIT WASHER STAINLESS	12	3/8-16 HEX NUT STAINLESS	12	3/8-16 X 2 1/2 BOLT STAINLESS	8
QSMS2402	HDKMS05	3/8-16X2 IN CARRAGE BOLT ZINC	4	3/8 IN BONDED WASHER	4	3/8 IN HEX NUT ZINC	8	3/8-16X1 3/4 IN HEX BOLT GALV	12	3/8 IN WASHER GALV	24	1 X 3/8 X 3/8 IN RUBBER WASHER	4	3/8 IN SPLIT WASHER GALV	12	3/8-16 HEX NUT GALV	12	-	-

NOTE - ALL ASSEMBLY HARDWARE IS INCLUDED

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 TOLERANCES ARE: ANGLES ±1.0°
 FRACTIONAL SIZES X/Y ±1/64

INCHES	[MILLIMETERS]
.X = ±0.1	[X = ± 2.5]
.XX = ±0.01	[.X = ± 1.3]
.XXX = ±0.005	[.XX = ±0.13]

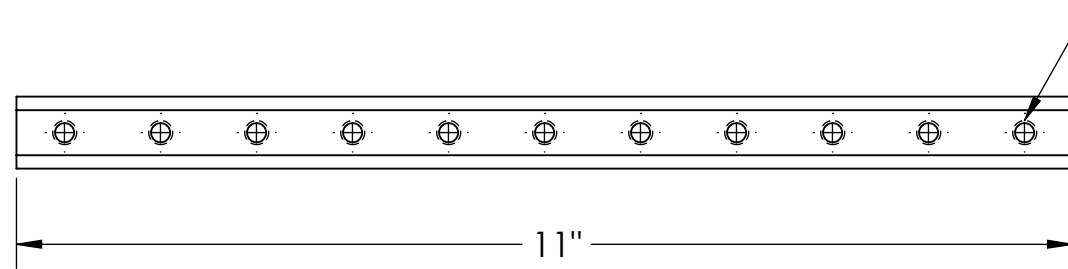
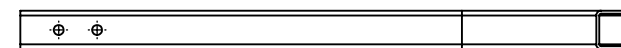
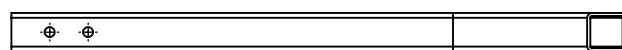
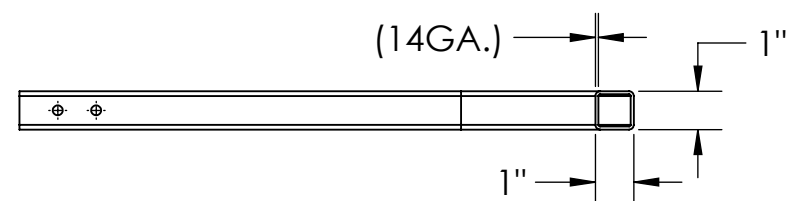
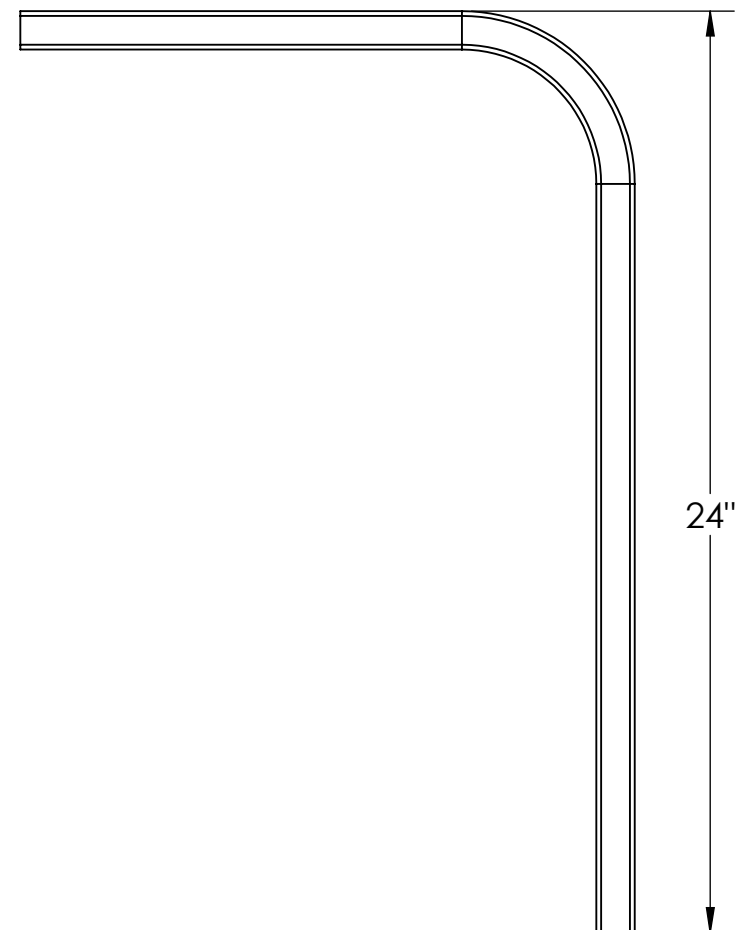
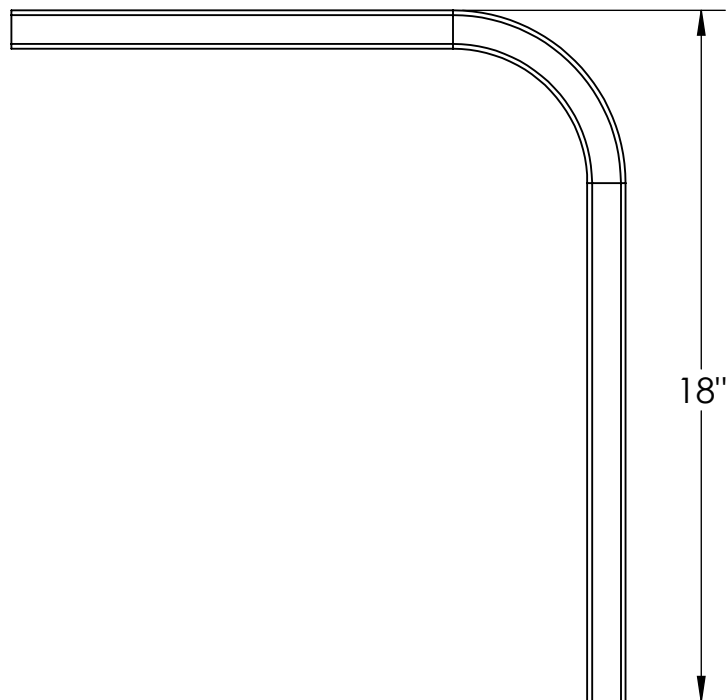
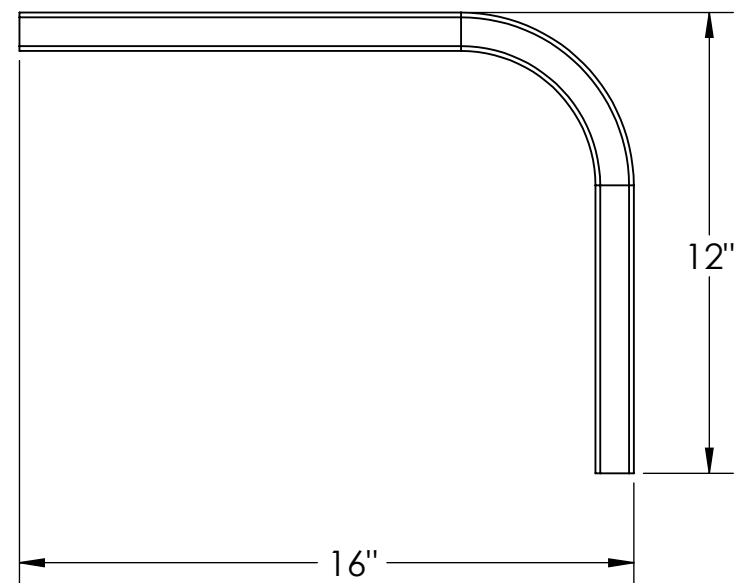
THIRD ANGLE PROJECTION



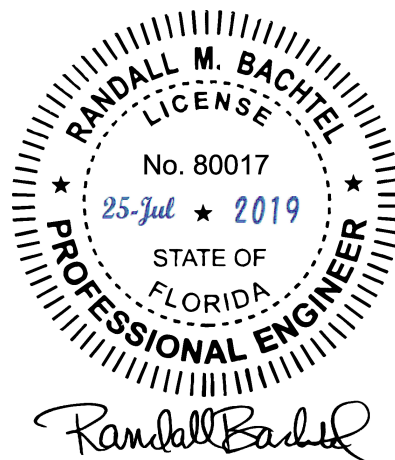
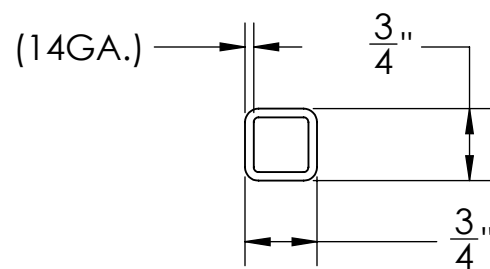
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ASSEMBLY: QSMS3001
 DWG. NO. FL-22415.3

WEIGHT
 GMS.
 REV.
R1
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 7 OF 23



1/4-20 Tapped Hole Thru Single Metal Thickness x 11



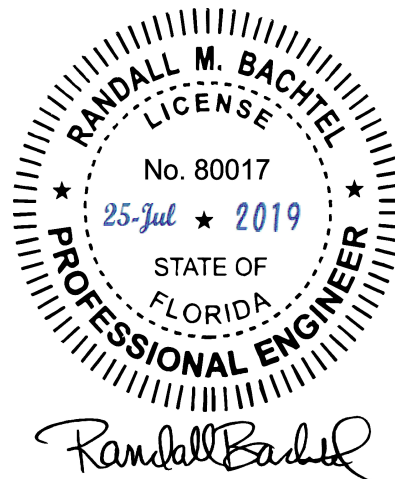
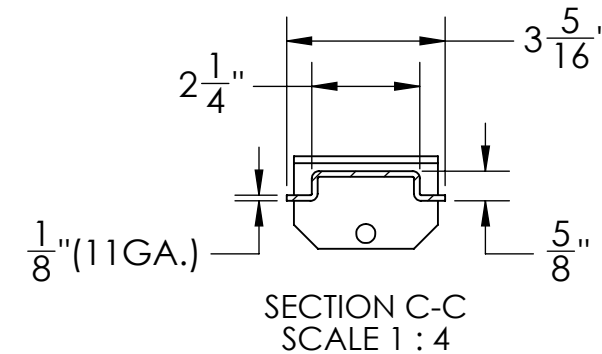
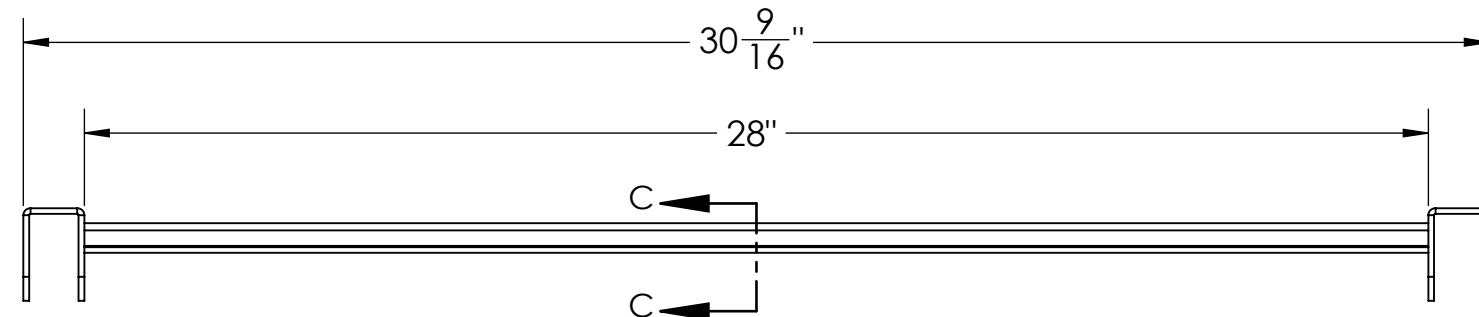
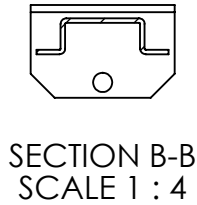
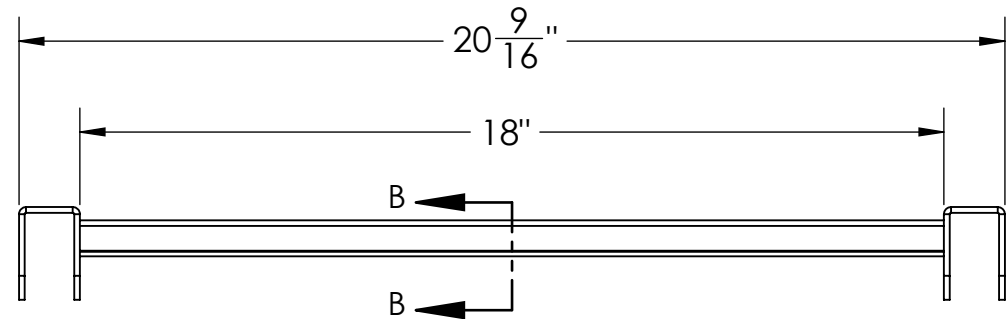
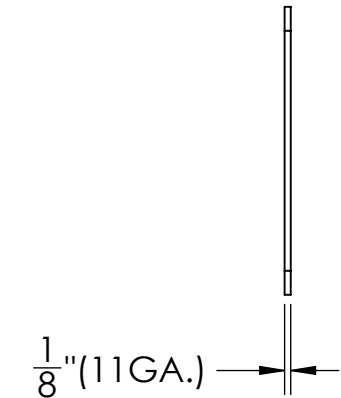
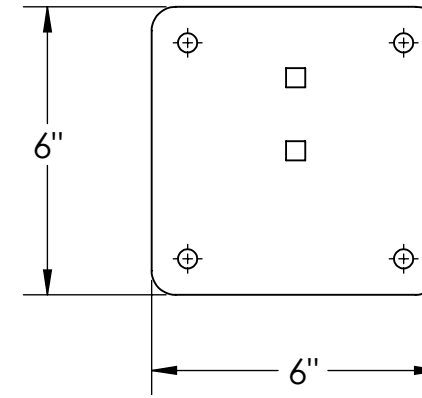
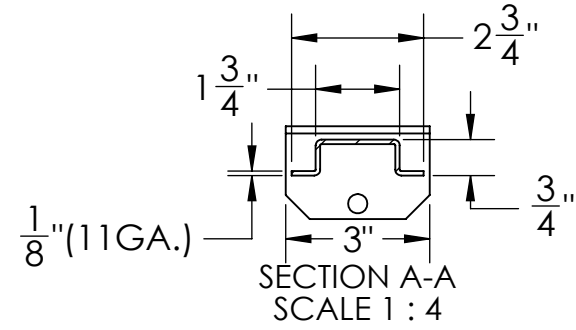
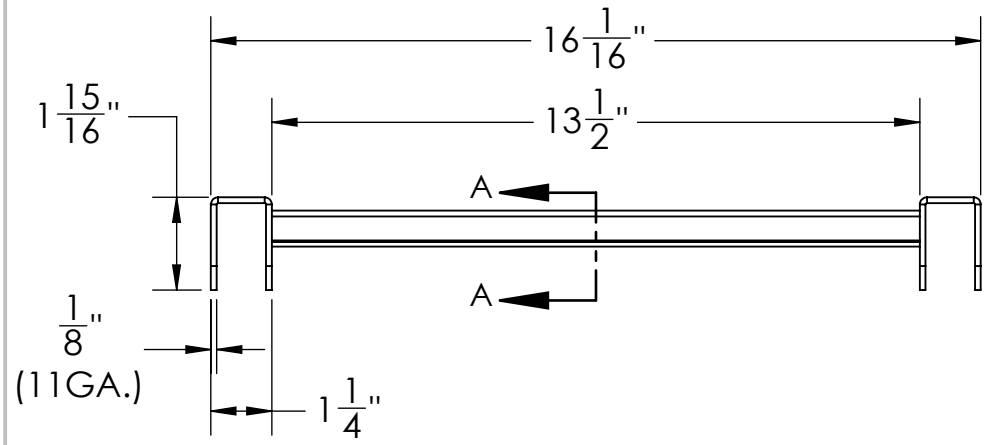
QSMS1200 / 1201 / 1202 / 1205 and QSTD3000/3001 and QSMS1800 / 1801 / 1802 / 1805 and QSMS 2400 / 2401 / 2402 / 2405 are made from the following structural components:
 ASTM A500 Grade B or C 1" Square Structural Tubing - 14 ga.
 ASME SA36 11ga. & 14ga. steel plate either in flat form or bent using a standard press brake.
 These are all per: American Institute of Steel Construction, AISC - FBC 2214.3
 Material Strength for the components listed above are as follows:
 ASME SA36 07ga. & 11ga. & 14ga. steel plate all has a minimum YIELD STRENGTH of 36ksi
 ASTM A500 Grade B or C structural steel tubing has a minimum YIELD STRENGTH of 46ksi

UNLESS OTHERWISE SPECIFIED:
 DIMENSIONS ARE IN INCHES [MILLIMETERS]
 TOLERANCES ARE: ANGLES ±1.0°
 FRACTIONAL SIZES X/Y ±1/64

INCHES	[MILLIMETERS]
X = ±0.1	[X = ± 2.5]
.XX = ±0.01	[.X = ± 1.3]
.XXX = ±0.005	[.XX = ±0.13]



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QSMS1200 / 1201 / 1202 / 1205 and QSTD3000/3001 and QSMS1800 / 1801 / 1802 / 1805 and QSMS 2400 / 2401 / 2402 / 2405 are made from the following structural components:
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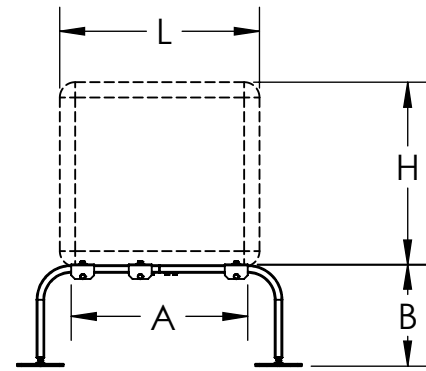
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4

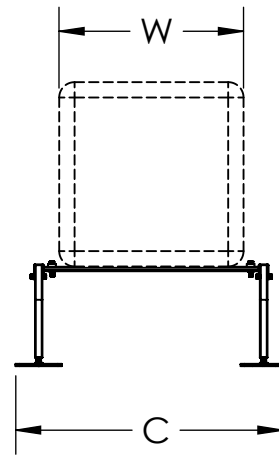
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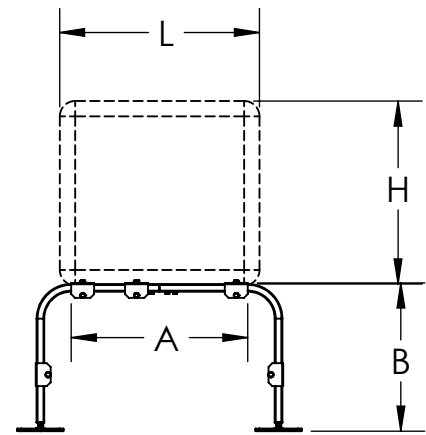
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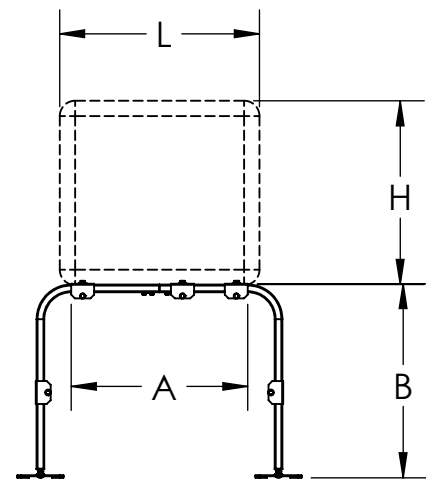
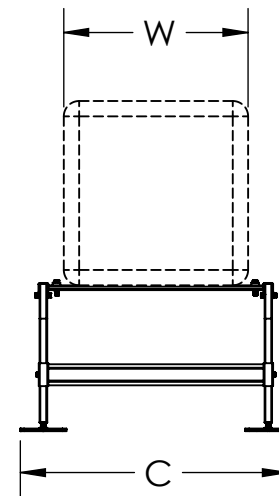
QSMS1205



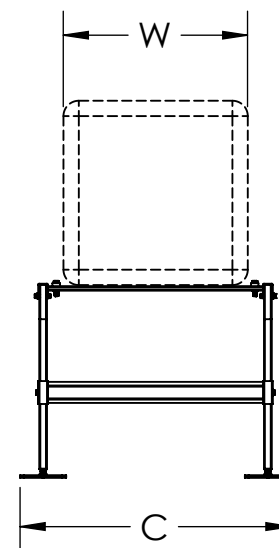
CONFIGURATION	DIMENSION A	DIMENSION B	DIMENSION C
QSMS1205 NARROW	9.6"	13.3"	35.3"
QSMS1205 WIDE	41"	13.3"	35.3"
QSMS1805 NARROW	9.6"	17.3"	35.3"
QSMS1805 WIDE	41"	17.3"	35.3"
QSMS2405 NARROW	9.6"	25.3"	35.3"
QSMS2405 WIDE	41"	25.3"	35.3"



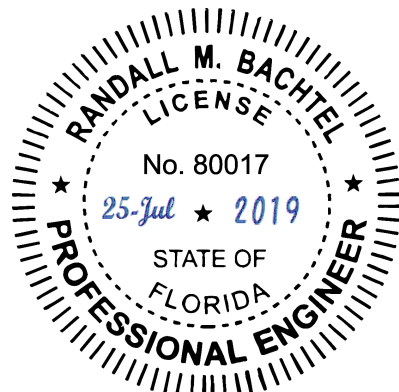
QSMS1805



QSMS2405



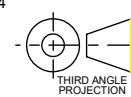
CONFIGURATION	DIMENSION H MAXIMUM	DIMENSION L MAXIMUM	DIMENSION W MAXIMUM
QSMS1205 WIDE	44"	45"	18"
QSMS1805 WIDE	44"	45"	18"
QSMS2405 WIDE	44"	45"	18"



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INCHES	[MILLIMETERS]
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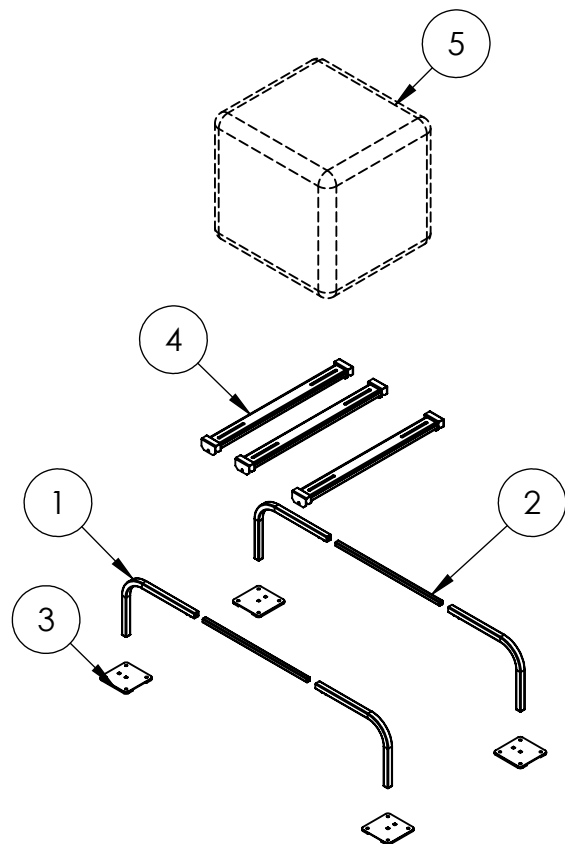
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	<small>DESCRIPTION</small>	

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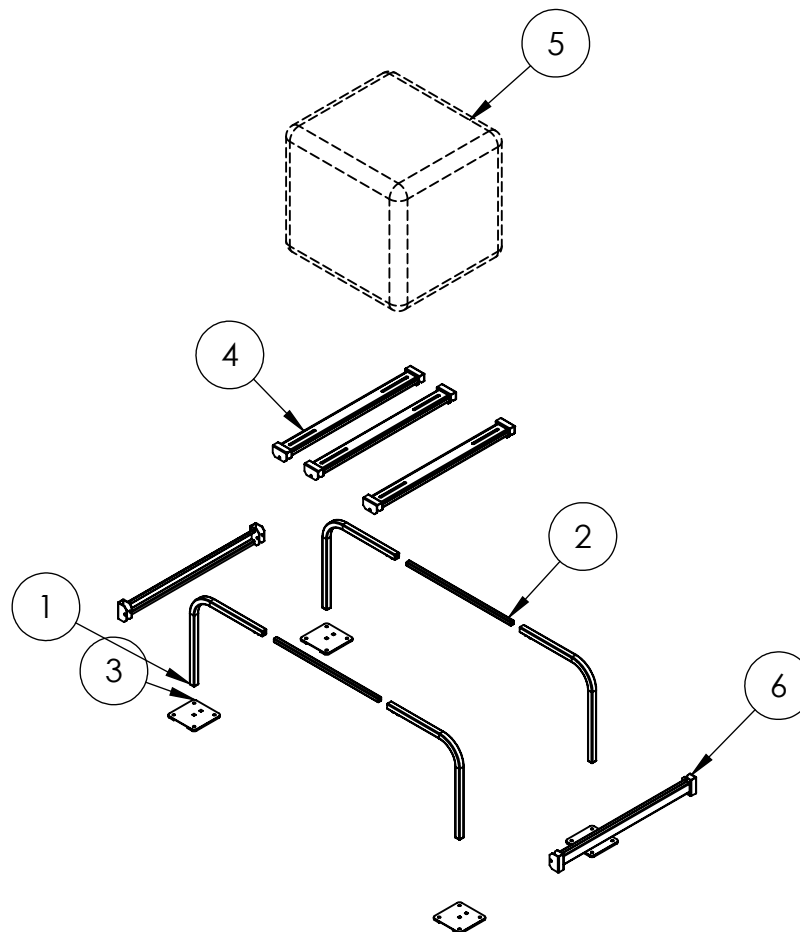
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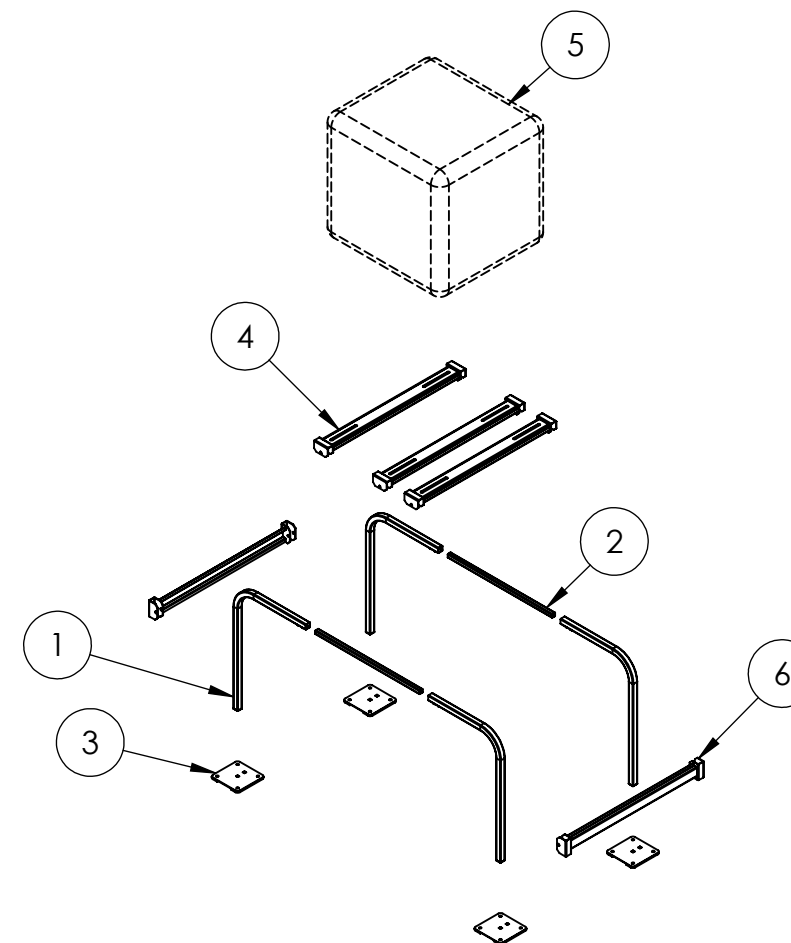
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QSMS1205

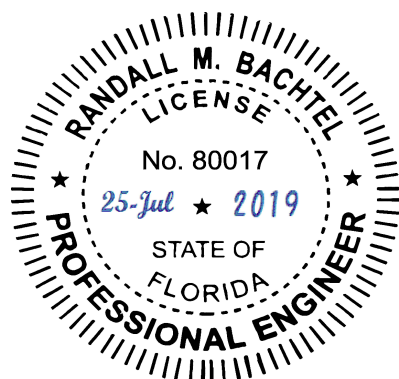


QSMS1805



QSMS2405

CONFIGURATION	PART 1	PART 2	PART 3	PART 4	PART 5	PART 6
QSMS1205	MS107	MS136	MS105	MS135	Equipment Package	-
QSMS1805	MS110	MS136	MS105	MS135	Equipment Package	MS115
QSMS2405	MS116	MS136	MS105	MS135	Equipment Package	MS115



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NOTE - ALL ASSEMBLY HARDWARE IS INCLUDED

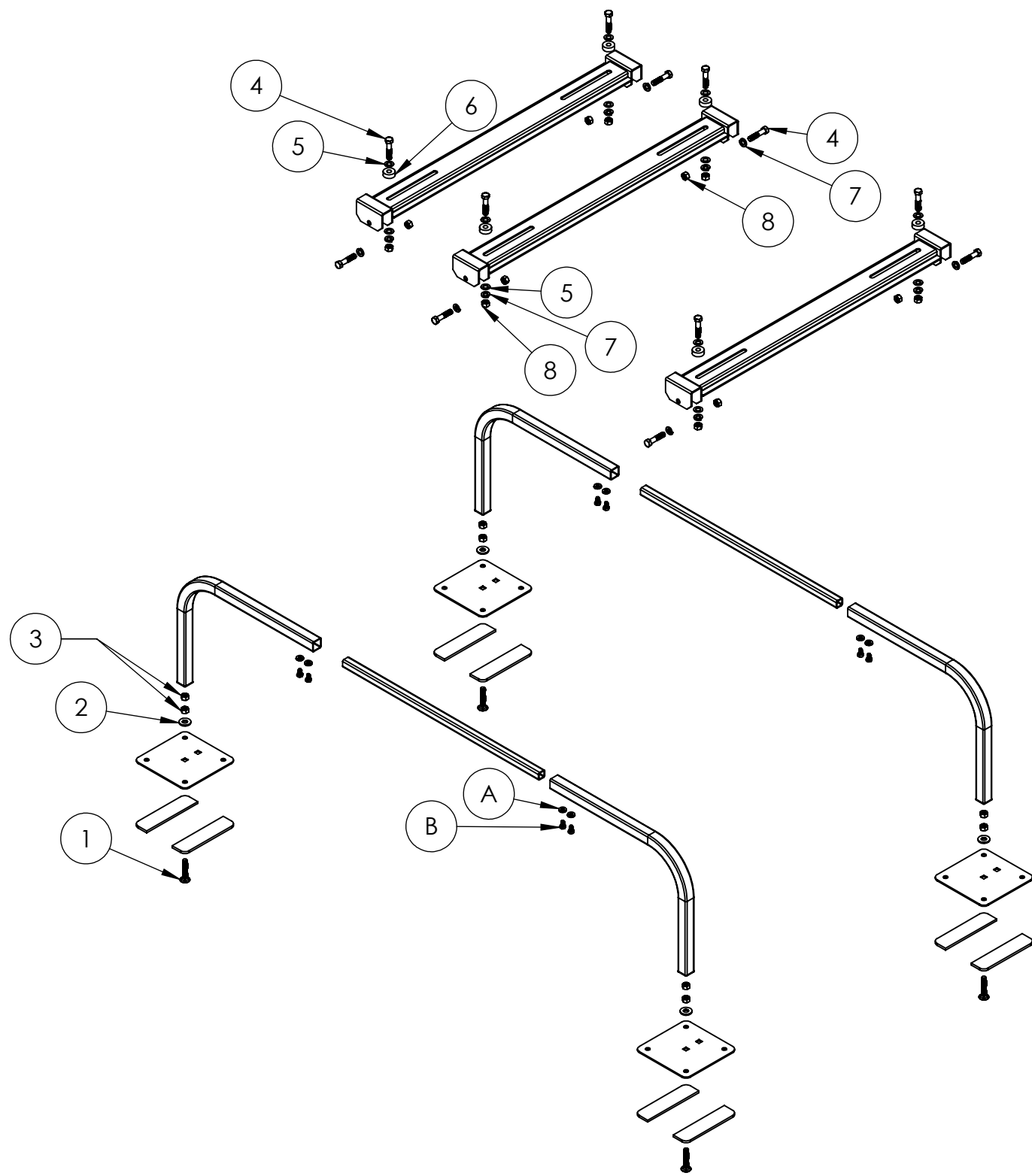
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.XX = ±0.01	[.X = ± 1.3]
.XXX = ±0.005	[.XX = ±0.13]

THIRD ANGLE PROJECTION

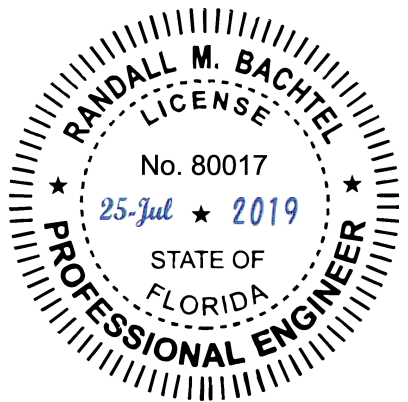


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QSMS1205

A-1/4 IN BONDED WASHER
 B-1/4-20X1/2 IN ZINC HEX BOLT
 PARTS A AND B ARE PART OF THE
 BOXED ASSEMBLY, SO NOT INCLUDED
 IN THE BAGGED HARDWARE KIT



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CONFIGURATION	HARDWARE KIT	PART 1	QTY	PART 2	QTY	PART 3	QTY	PART 4	QTY	PART 5	QTY	PART 6	QTY	PART 7	QTY	PART 8	QTY
QSMS1205	HDKMS12	3/8-16X2 IN CARRAGE BOLT ZINC	4	3/8 IN BONDED WASHER	4	3/8 IN HEX NUT ZINC	8	3/8-16X1 3/4 IN HEX BOLT GALV	12	3/8 IN WASHER GALV	12	1 X 3/8 X 3/8 IN RUBBER WASHER	6	3/8 IN SPLIT WASHER GALV	12	3/8-16 HEX NUT GALV	12

NOTE - ALL ASSEMBLY HARDWARE IS INCLUDED

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 FRACTIONAL SIZES X/Y ±1/64

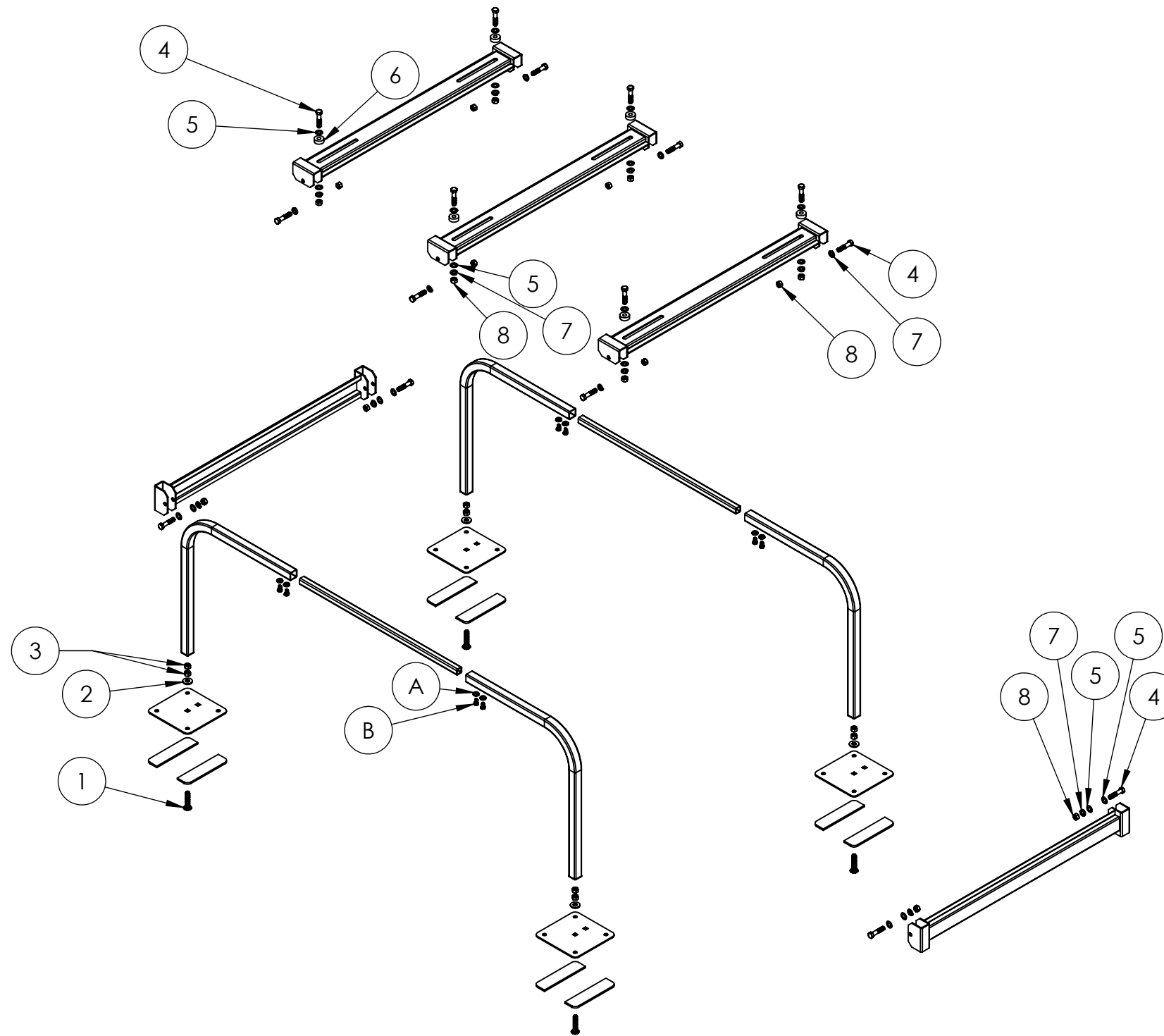
INCHES	[MILLIMETERS]
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.XX = ±0.01	[.X = ± 1.3]
.XXX = ±0.005	[.XX = ± 0.13]

THIRD ANGLE PROJECTION



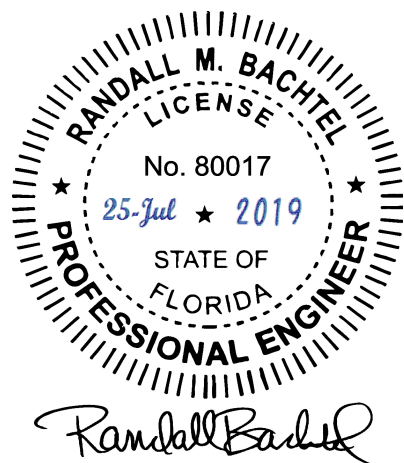
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ASSEMBLY:	QSMS3001	WEIGHT	GMS.
DWG. NO.	FL-22415.3	REV.	R1
DESCRIPTION		SHEET	12 OF 23



QSMS1805

A-1/4 IN BONDED WASHER
 B-1/4-20X1/2 IN ZINC HEX BOLT
 PARTS A AND B ARE PART OF THE
 BOXED ASSEMBLY, SO NOT INCLUDED
 IN THE BAGGED HARDWARE KIT



CONFIGURATION	HARDWARE KIT	PART 1	QTY	PART 2	QTY	PART 3	QTY	PART 4	QTY	PART 5	QTY	PART 6	QTY	PART 7	QTY	PART 8	QTY
QSMS1805	HDKMS13	3/8-16X2 IN CARRAGE BOLT ZINC	4	3/8 IN BONDED WASHER	4	3/8 IN HEX NUT ZINC	8	3/8-16X1 3/4 IN HEX BOLT GALV	12	3/8 IN WASHER GALV	12	1 X 3/8 X 3/8 IN RUBBER WASHER	6	3/8 IN SPLIT WASHER GALV	12	3/8-16 HEX NUT GALV	12

NOTE - ALL ASSEMBLY HARDWARE IS INCLUDED

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.XX = ±0.01	[.X = ± 1.3]
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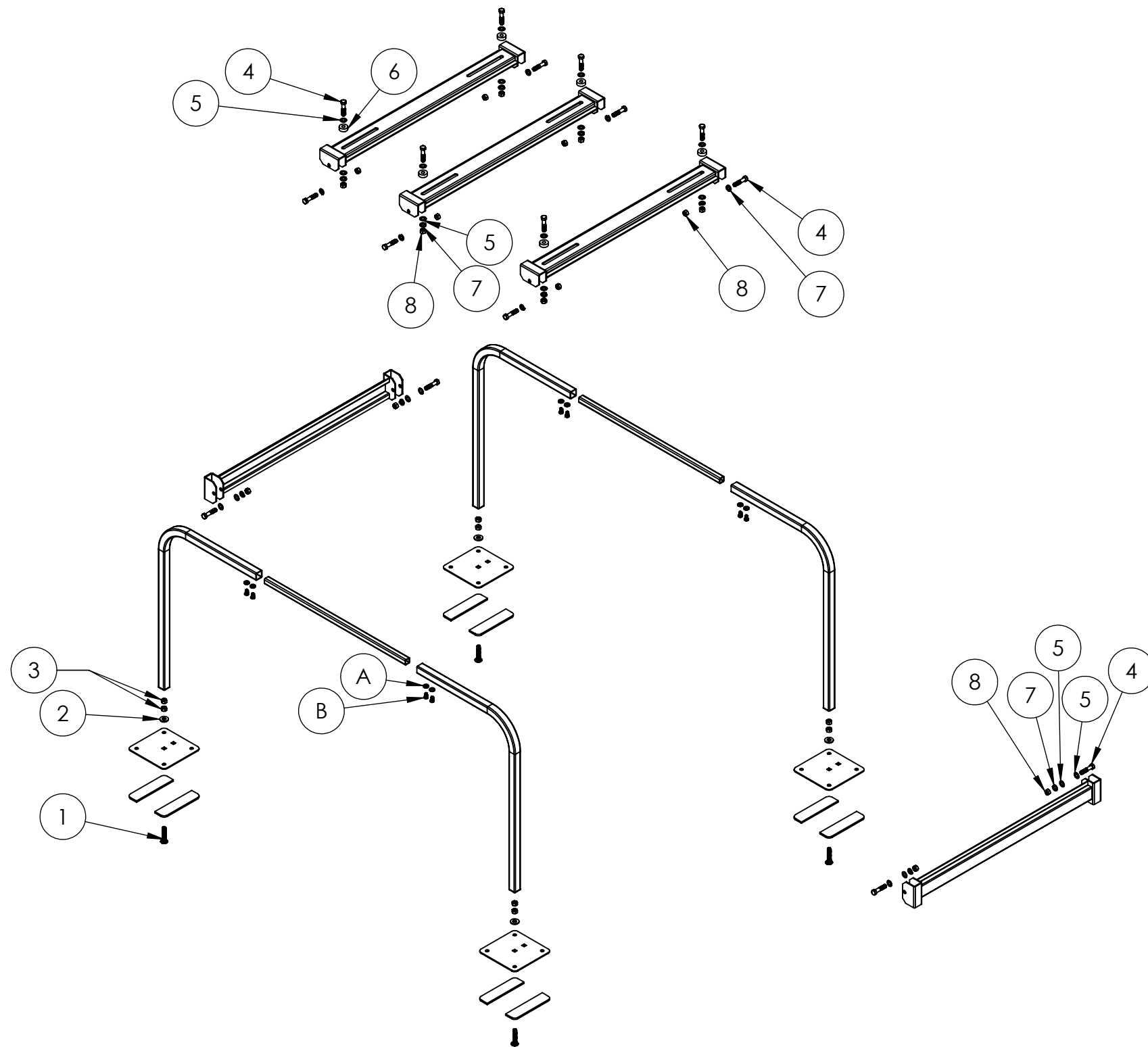
THIRD ANGLE PROJECTION



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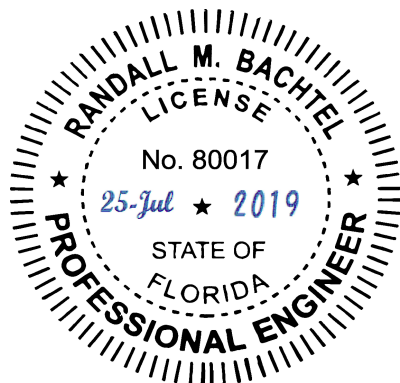
ASSEMBLY: QSMS3001
 DWG. NO. FL-22415.3

WEIGHT
 GMS.
 REV.
R1
 SHEET



QSMS2405

A-1/4 IN BONDED WASHER
 B-1/4-20X1/2 IN ZINC HEX BOLT
 PARTS A AND B ARE PART OF THE
 BOXED ASSEMBLY, SO NOT INCLUDED
 IN THE BAGGED HARDWARE KIT



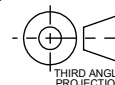
Randall Bachtel

CONFIGURATION	HARDWARE KIT	PART 1	QTY	PART 2	QTY	PART 3	QTY	PART 4	QTY	PART 5	QTY	PART 6	QTY	PART 7	QTY	PART 8	QTY
QSMS2405	HDKMS13	3/8-16X2 IN CARRAGE BOLT ZINC	4	3/8 IN BONDED WASHER	4	3/8 IN HEX NUT ZINC	8	3/8-16X1 3/4 IN HEX BOLT GALV	12	3/8 IN WASHER GALV	12	1 X 3/8 X 3/8 IN RUBBER WASHER	6	3/8 IN SPLIT WASHER GALV	12	3/8-16 HEX NUT GALV	12

NOTE - ALL ASSEMBLY HARDWARE IS INCLUDED

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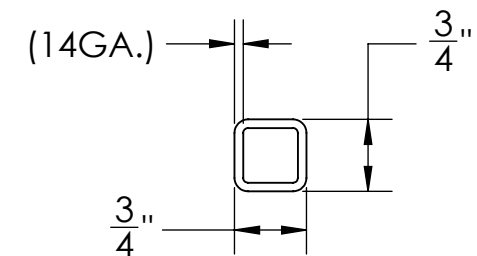
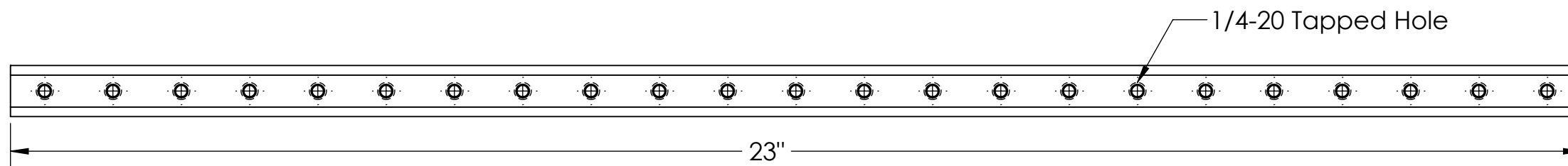
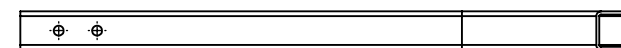
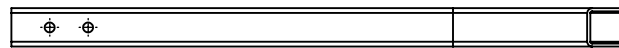
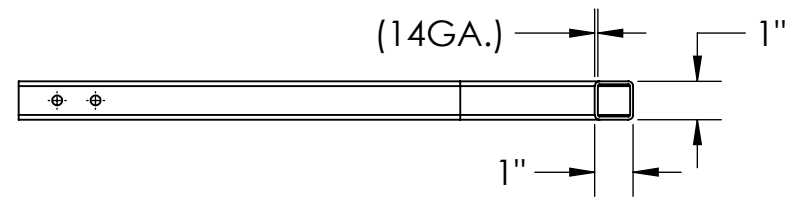
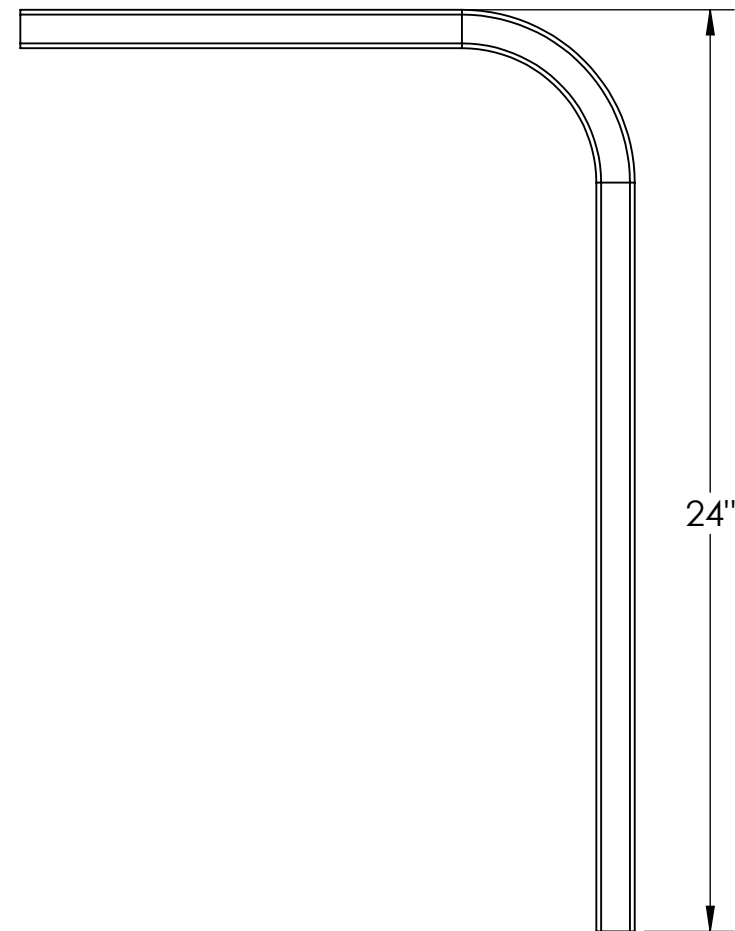
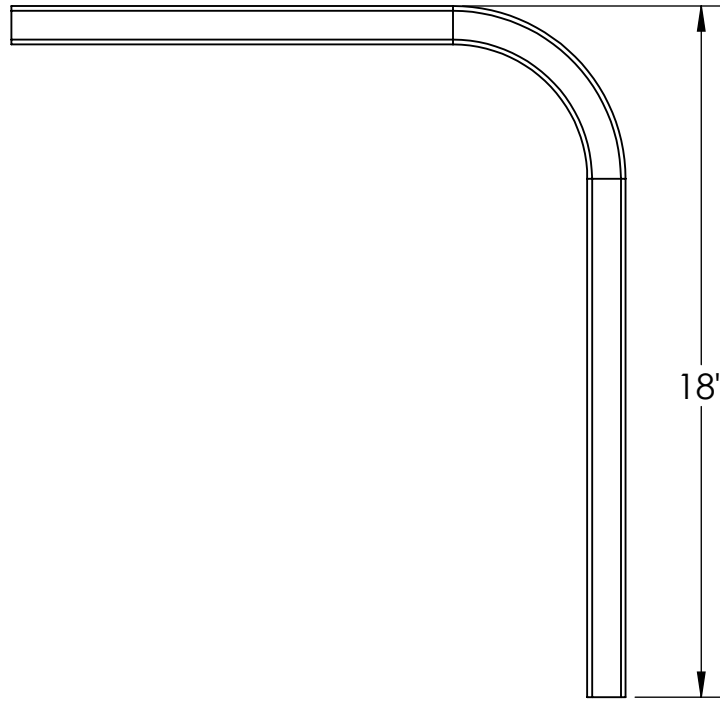
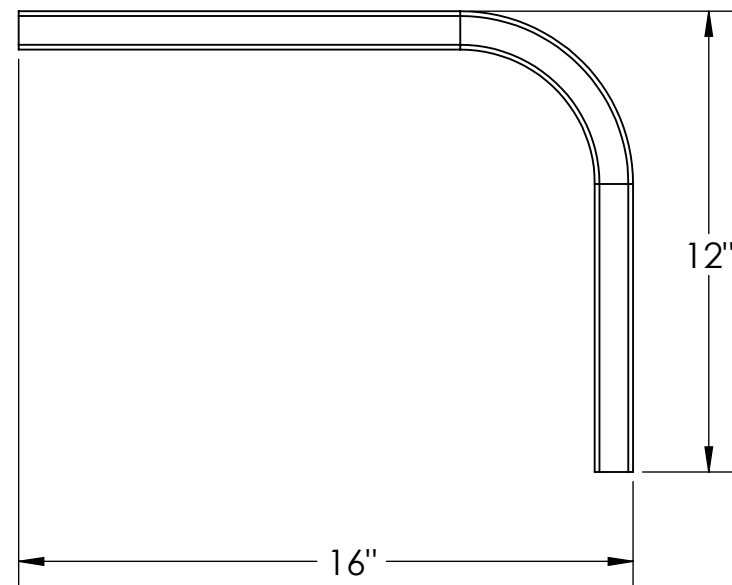
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X = ±0.1	[X = ± 2.5]
.XX = ±0.01	[.X = ± 1.3]
.XXX = ±0.005	[.XX = ±0.13]



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ASSEMBLY: QSMS3001
 DWG. NO. FL-22415.3

WEIGHT
 GMS.
 REV.
R1
 SHEET



QSMS1200 / 1201 / 1202 / 1205 and QSTD3000/3001 and QSMS1800 / 1801 / 1802 / 1805 and QSMS 2400 / 2401 / 2402 / 2405 are made from the following structural components:
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	DESCRIPTION	

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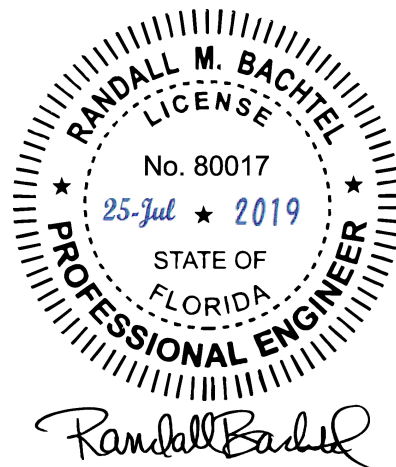
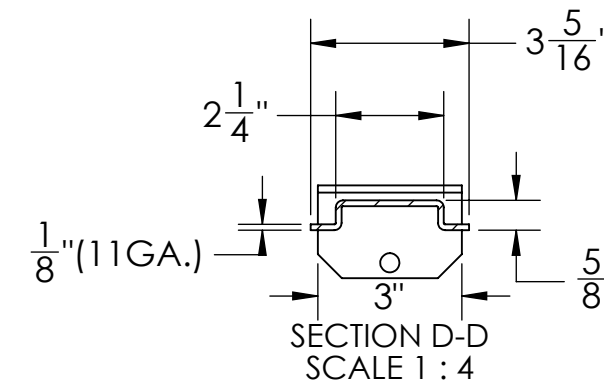
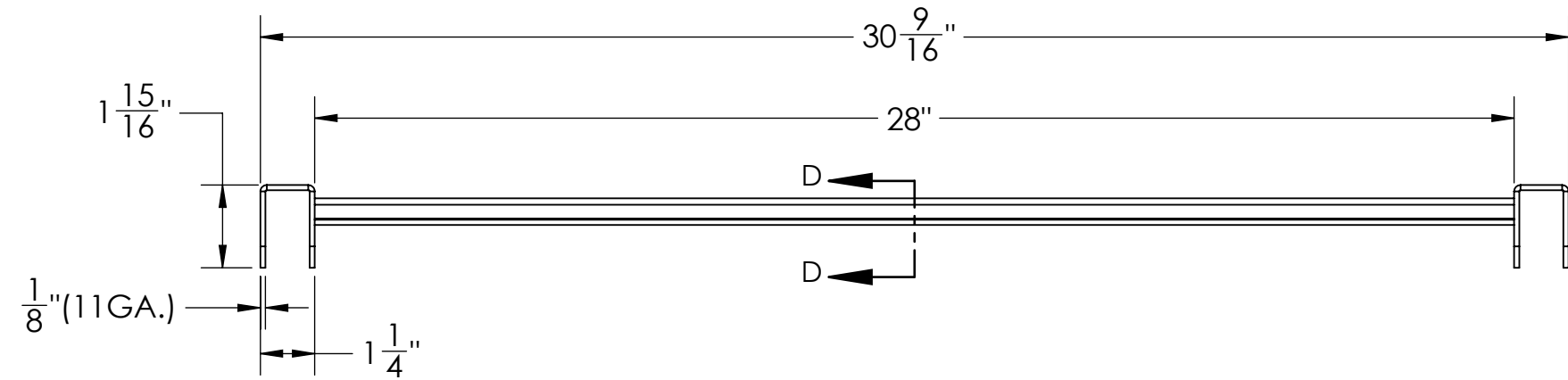
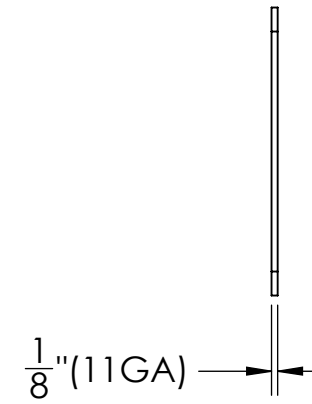
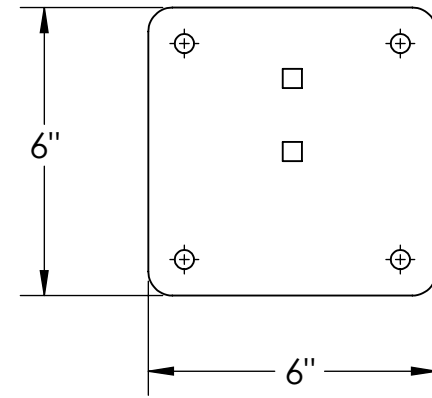
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B

B



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	DESCRIPTION	

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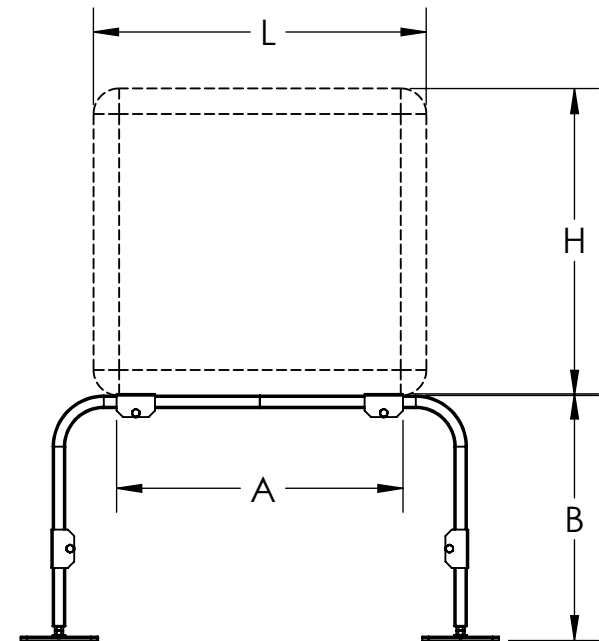
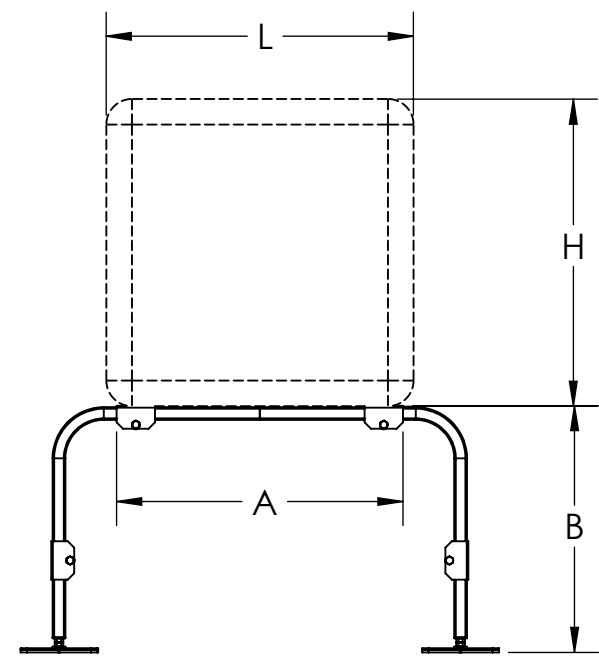
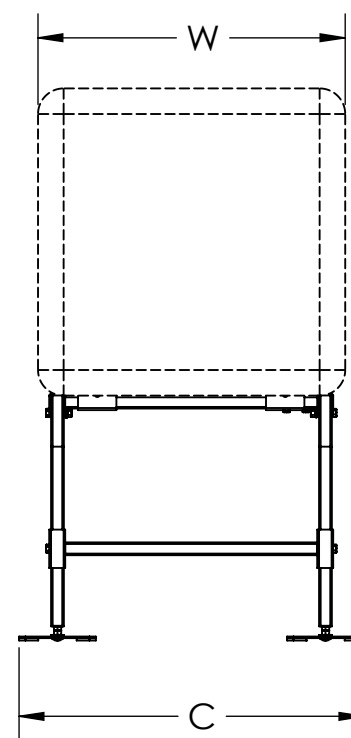
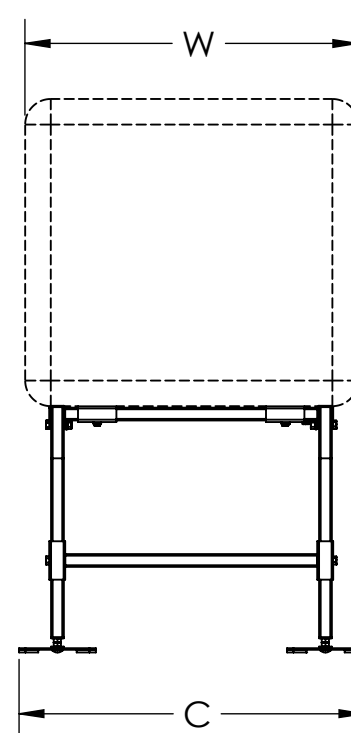
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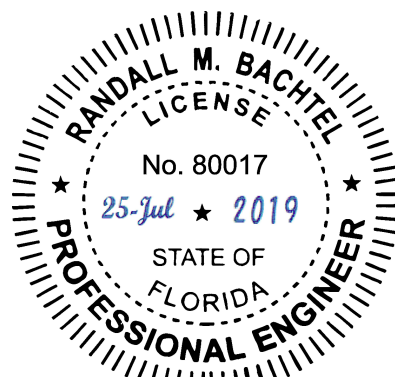
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1

**QSTD 3000****QSTD 3001**

CONFIGURATION	DIMENSION A	DIMENSION B	DIMENSION C
QSTD3000 NARROW	6	19.27	26.94
QSTD3000 WIDE	30.38	19.27	43.5
QSTD3001 NARROW	6	19.27	26.94
QSTD3001 WIDE	38.38	19.27	43.5

CONFIGURATION	DIMENSION H MAXIMUM	DIMENSION L MAXIMUM	DIMENSION W MAXIMUM
QSTD3000	46"	38"	38"
QSTD3001	46"	38"	38"



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DESCRIPTION

ASSEMBLY: QUICK STANDS

DWG. NO.

FL-22415.3

WEIGHT

GMS.

REV.

R1

SHEET

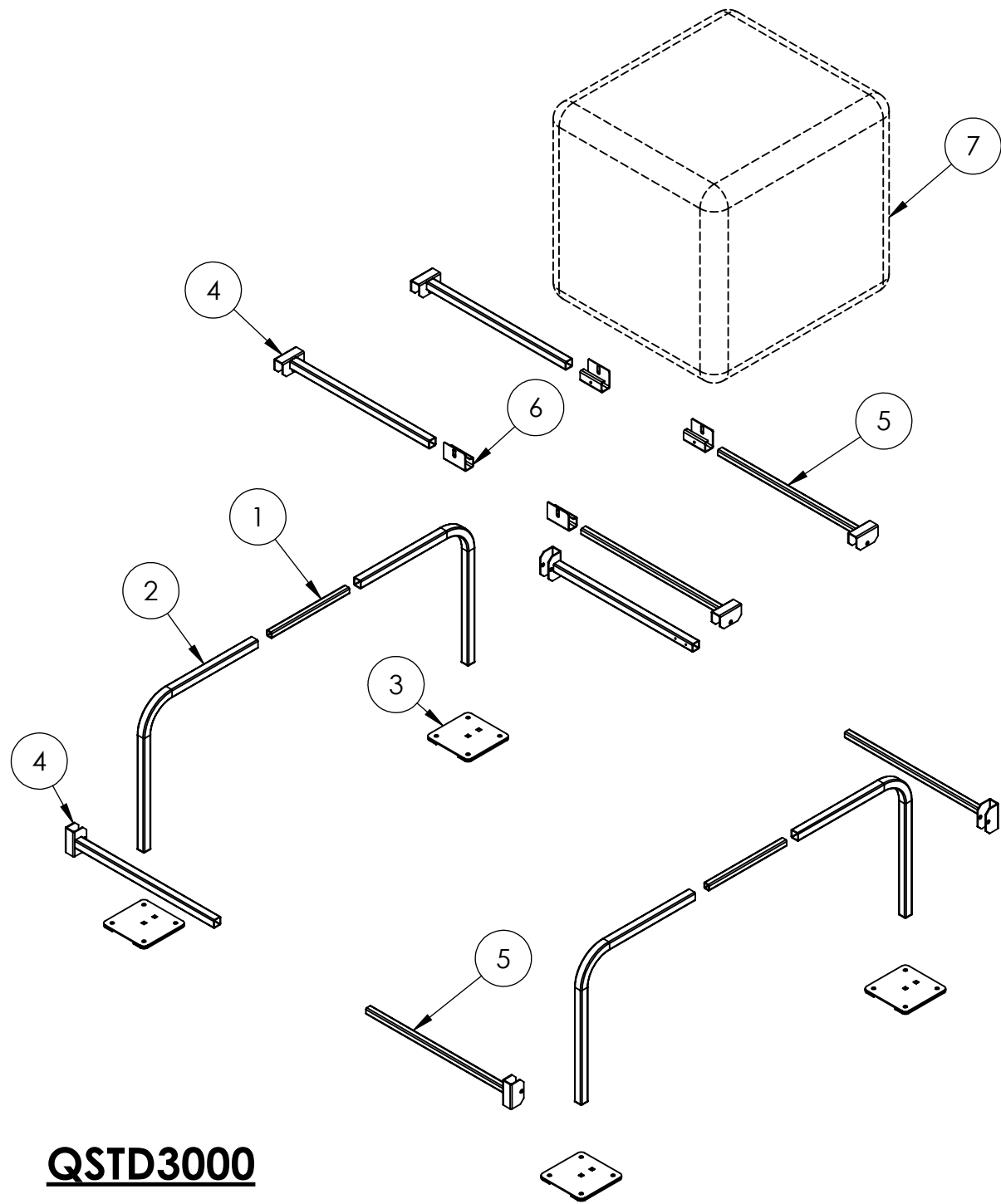
17 OF 23

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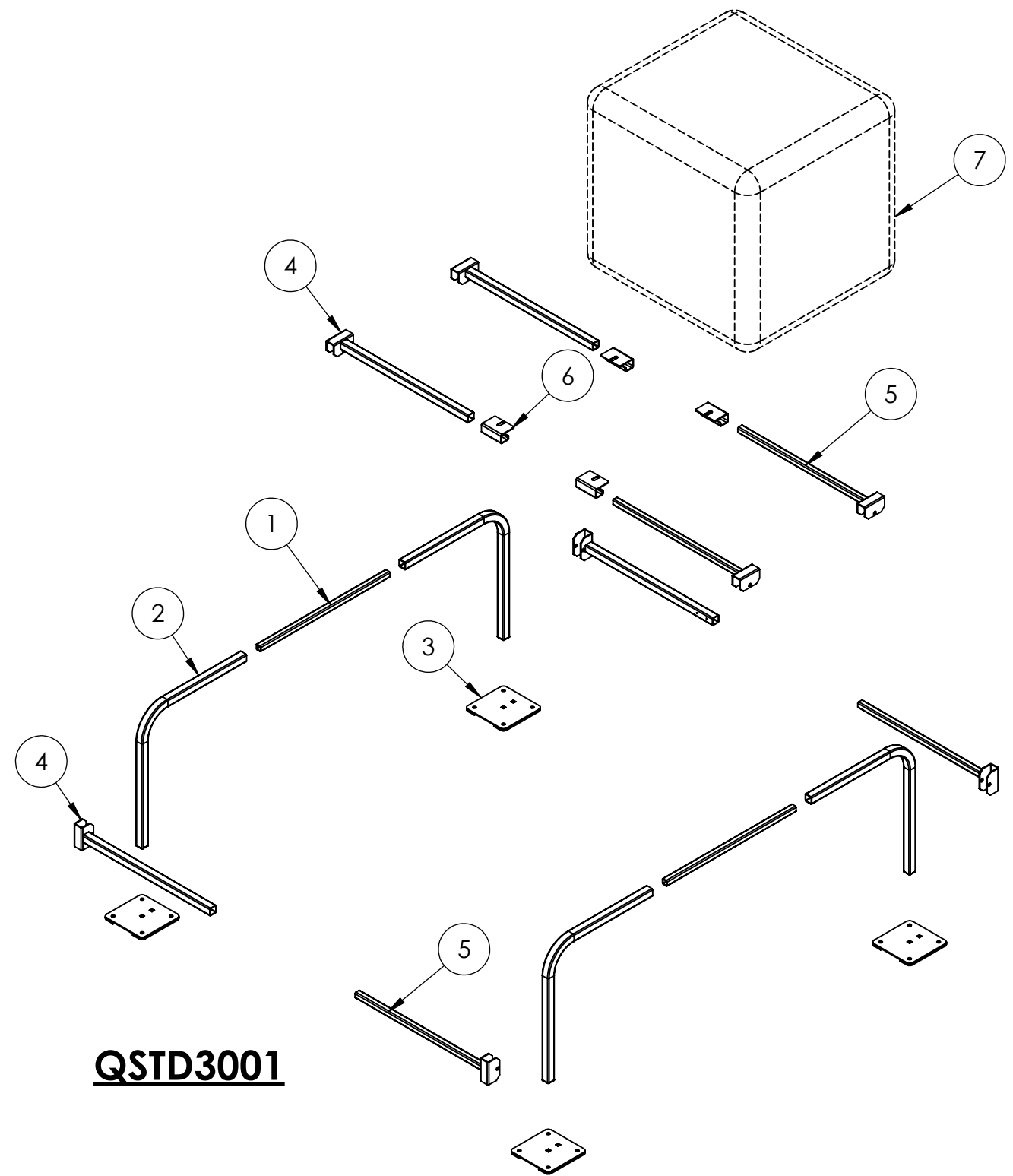
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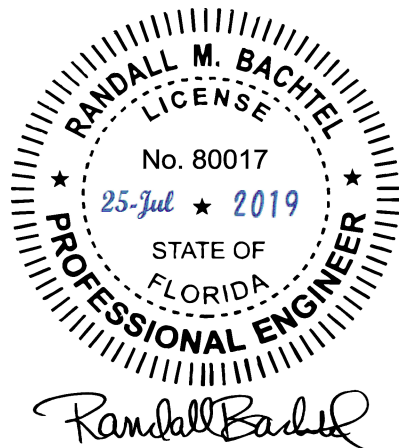
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QSTD3000



QSTD3001



CONFIGURATION	PART 1	PART 2	PART 3	PART 4	PART 5	PART 6	PART 7
QSTD3000	QTSD3001-218	QTSD3001-235	QTSD3001-217	QTSD3001-233	QTSD3001-234	QTSD3001-215	Equipment Package
QSTD3001	QTSD3001-228	QTSD3001-235	QTSD3001-217	QTSD3001-233	QTSD3001-234	QTSD3001-215	Equipment Package

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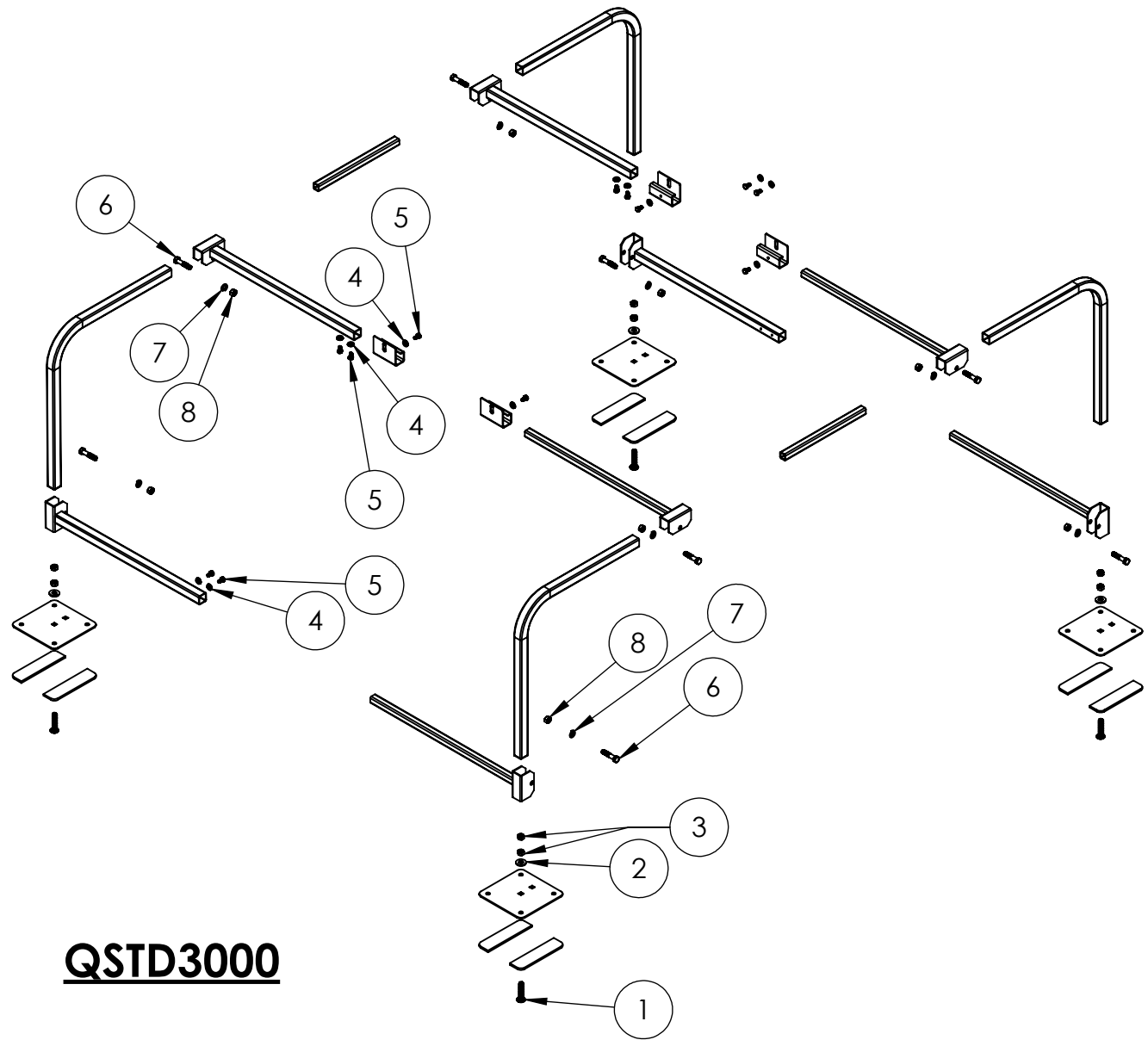
THIRD ANGLE PROJECTION



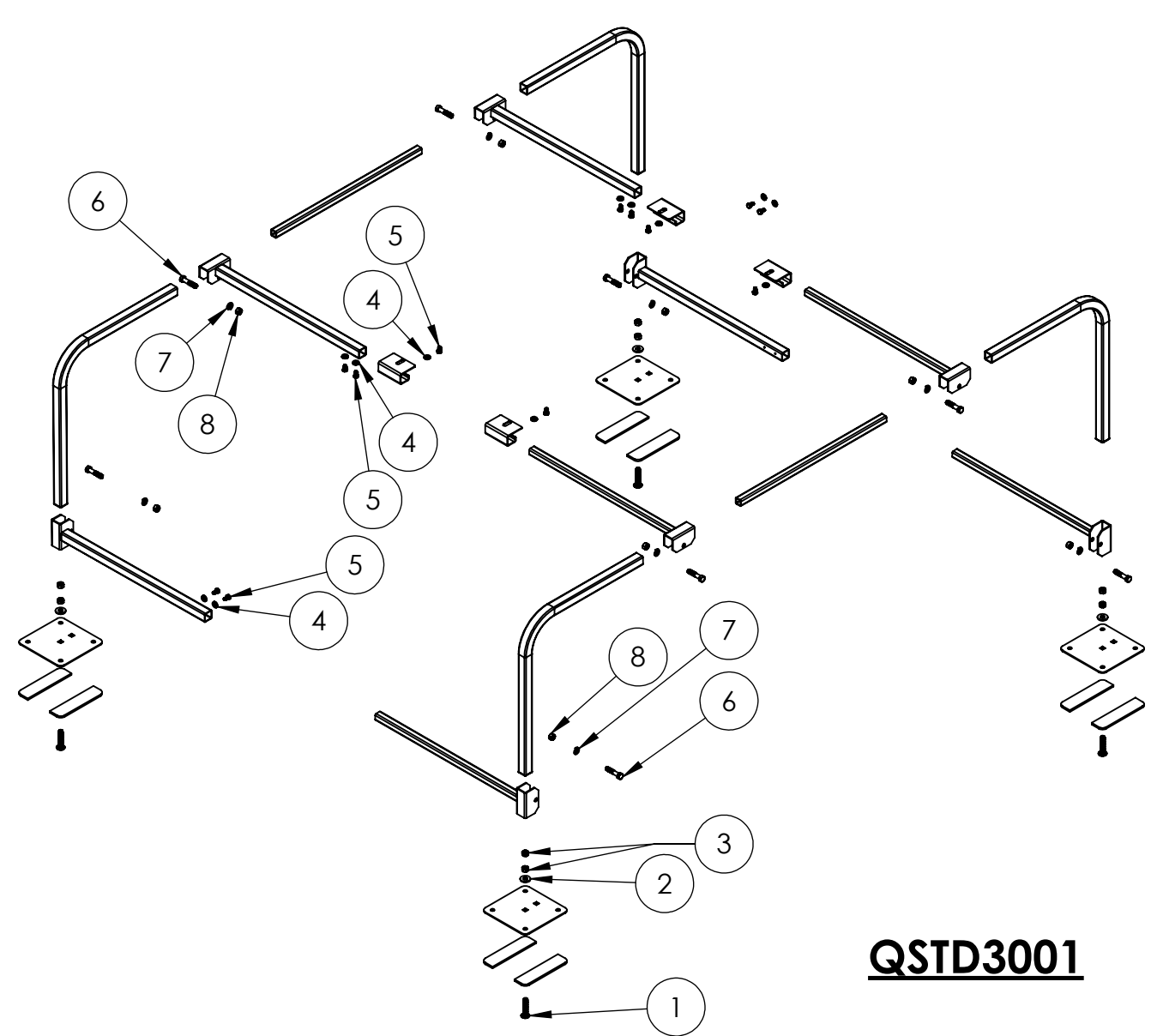
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ASSEMBLY: QUICK STANDS
 DWG. NO. **FL-22415.3**

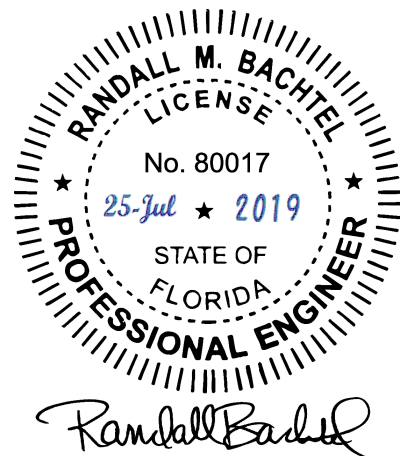
WEIGHT
 GMS.
 REV.
R1
 SHEET
 18 OF 23



QSTD3000



QSTD3001



CONFIGURATION	PART 1	PART 2	PART 3	PART 4	PART 5	PART 6	PART 7	PART 8
QSTD3000	3/8-16X2 IN CARRIGE BOLT ZINC	3/8 IN BONDED WASHER	3/8 IN ZINC HEX NUT	1/4 IN BONDED WASHERS	1/4-20X1/2 IN ZINC HEX BOLT	3/8-16X1 3/4 IN HEX BOLT GALVINIZED	3/8 IN SPLIT WASHER GALVANIZED	3/8-16 GALVANIZED HEX NUT
QSTD3001	3/8-16X2 IN CARRIGE BOLT ZINC	3/8 IN BONDED WASHER	3/8 IN ZINC HEX NUT	1/4 IN BONDED WASHERS	1/4-20X1/2 IN ZINC HEX BOLT	3/8-16X1 3/4 IN HEX BOLT GALVINIZED	3/8 IN SPLIT WASHER GALVANIZED	3/8-16 GALVANIZED HEX NUT

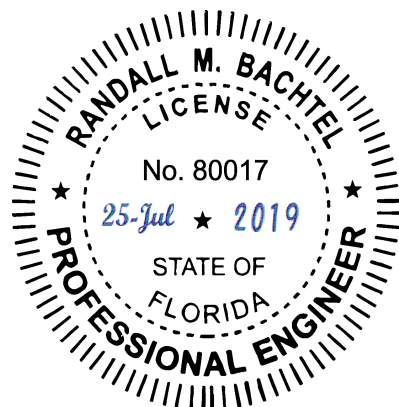
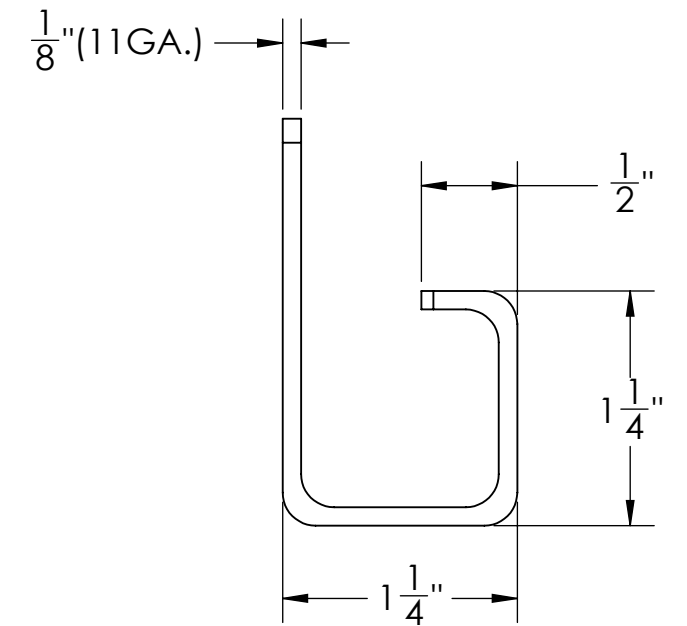
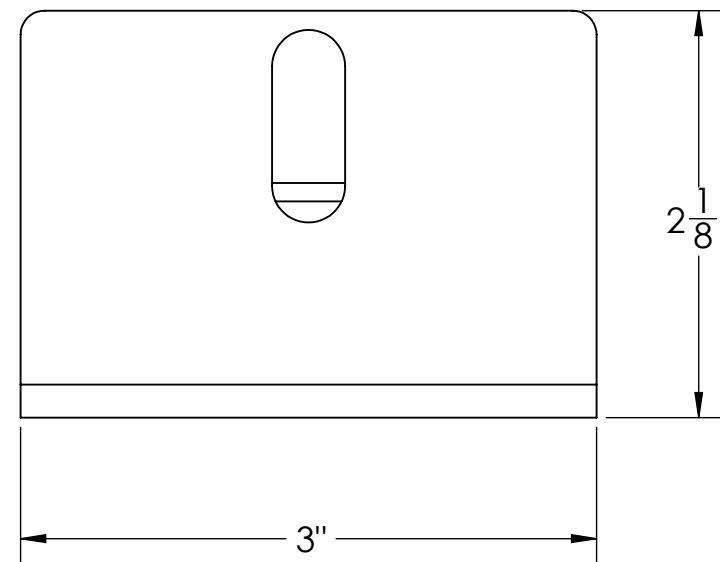
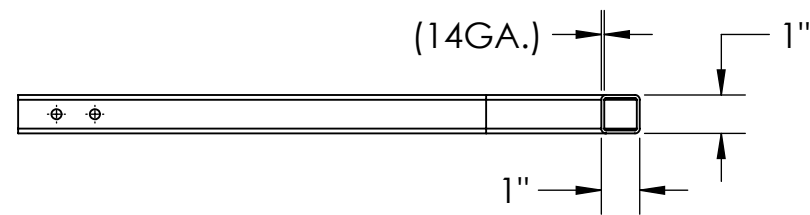
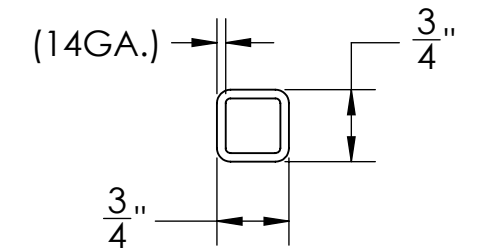
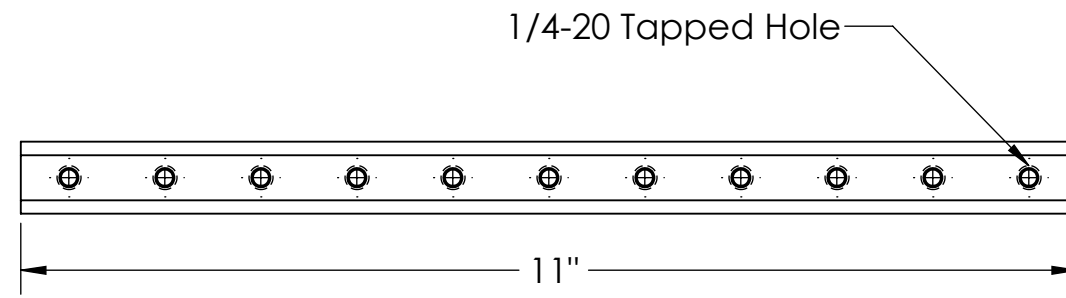
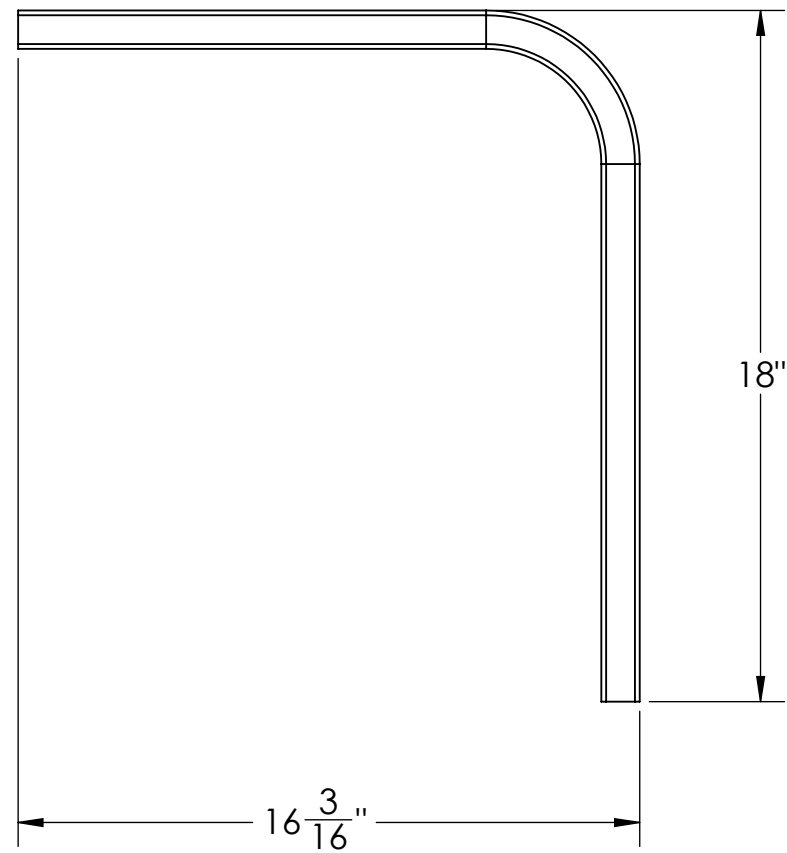
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 FRACTIONAL SIZES X/Y ±1/64

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	<small>DESCRIPTION</small>	



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	DESCRIPTION	

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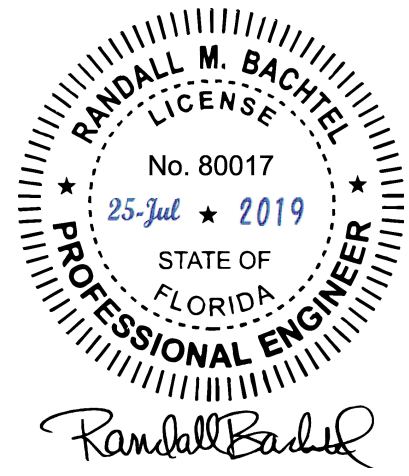
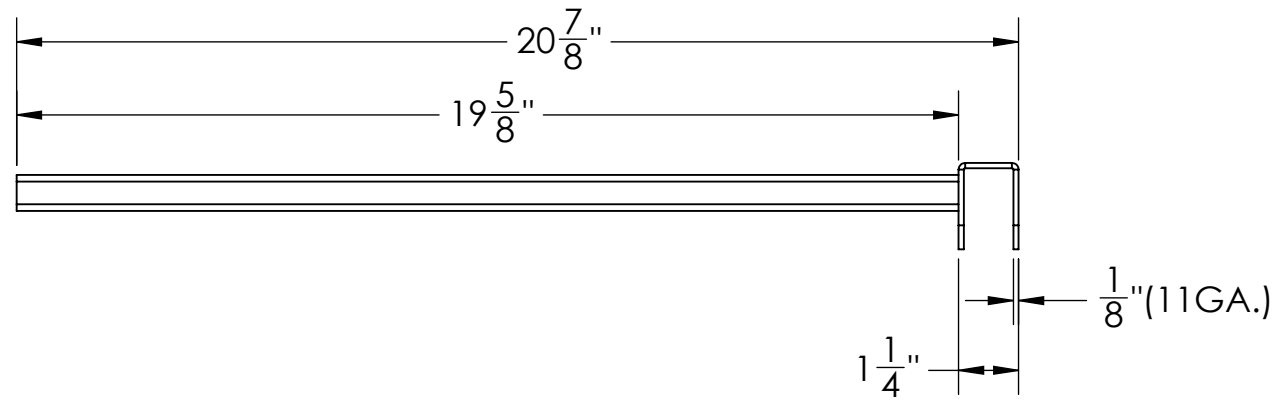
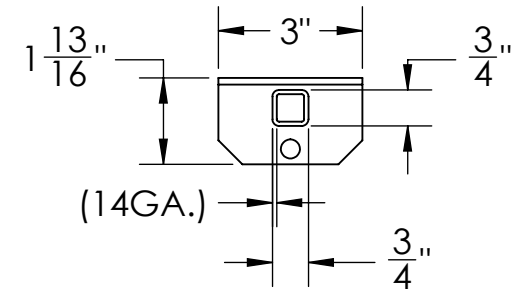
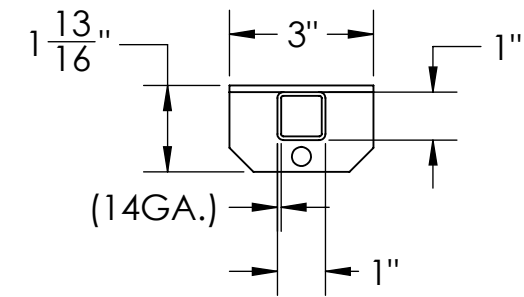
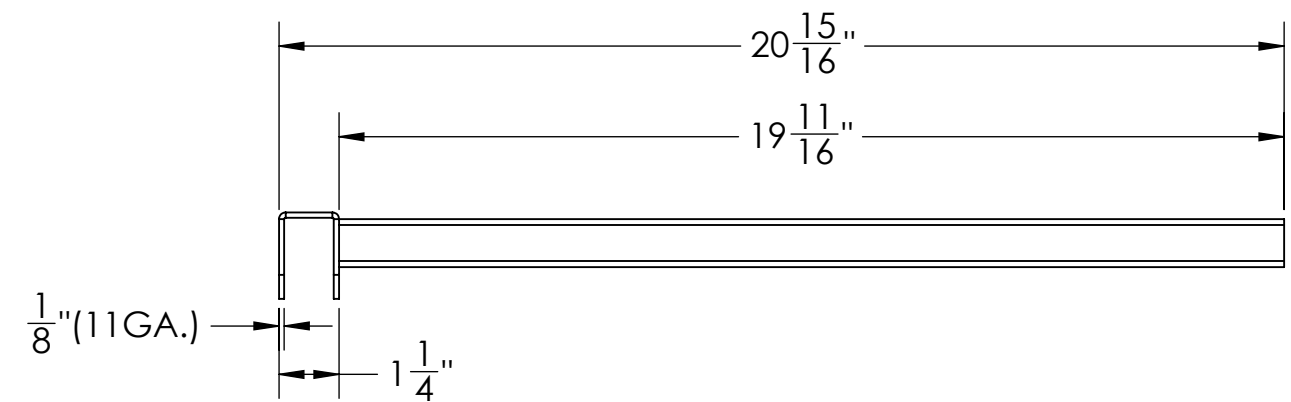
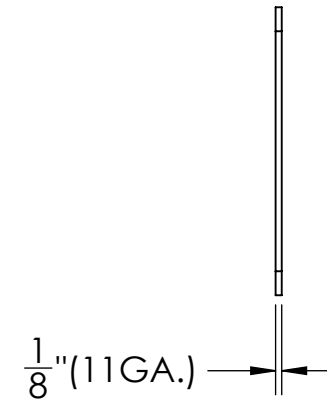
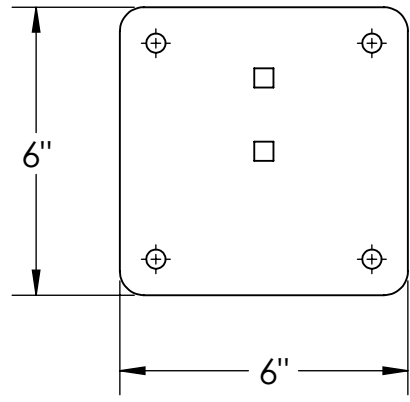
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B

B



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3

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1

A

A

FBC 1620.6 Rooftop structures and equipment.

The lateral force on rooftop structures and equipment with Af less than(0.1Bh) located on buildings of all heights shall be determined from Equation 29.5-1 of ASCE 7 in which the value of Gcf shall be taken as 3.1. Gcf shall be permitted to be reduced linearly from 3.1 to 1.1 as the value of Af is increased from (0.1Bh) to (Bh). The value of G from Section 26.9 of ASCE 7 shall not be used.

Additionally, a simultaneous uplift force shall be applied, given by Equation 29.5-1 of ASCE 7 in which Gcf = 1.5 and Af is replaced by the horizontal projected area, Ar, of the rooftop structure or equipment.

For the uplift force Gcf shall be permitted to be reduced linearly from 1.5 to 1.0 as the value of Ar is increased from (0.1BL) to (BL).

The DESIGN PRESSURE used for these calculations is determined using a Maximum Wind Speed of 180 MPH.

Using ASCE equation Sec. 27.3.2 / eq. 27.3-1 qz = 0.00256 * Kz * Kzt * Kd * V^2 = 63.45 psf

where Kz = 0.85, Kzt = 1.00, Kd = 0.90

LATERAL Direction For rooftop structures and equipment with Af less than (0.1Bh). GCr = 3.1

VERTICAL Direction For rooftop structures and equipment with Af less than (0.1Bh). GCr = 1.5

LATERAL FORCE due to Wind Load Only (ASCE 7-10 Equation 29.5-2) Fh = qh(GCr)Af = 196.7 psf, where GCr = 3.1

VERTICAL FORCE (UPLIFT) Wind Load Only (ASCE 7-10 Equation 29.5-3) Fh = qh(GCr)Af = 95.2 psf, where GCr = 1.5

FBC 1522.2 Rooftop mounted equipment

All rooftop equipment and supports shall be secured to the structure in compliance with the loading requirements of Chapter 16 (High-Velocity Hurricane Zones). The use of wood "sleepers" shall not be permitted.

FBC Section 2204 Connections

2204.1 Welding

The details of design, workmanship and technique for welding and qualification of welding personnel shall be in accordance with the specifications listed in Sections 2205, 2206, 2207, 2208, 2210 and 2211 (see Section 2222 for HVHZ) and 2211 (see Section 2222 for HVHZ).

2204.2 Bolting

The design, installation and inspection of bolts shall be in accordance with the requirements of Sections 2205, 2206, 2207, 2210 and 2211.

2204.3 Anchor rods

Anchor rods shall be set in accordance with the approved construction documents. The protrusion of the threaded ends through the connected material shall fully engage the threads of the nuts but shall not be greater than the length of the threads on the bolts.

THE QSMS1200/1201/1202/1800/1801/1802/2400/2401/2402 AND THEIR VARIANTS ARE TO SUPPORT GENERAL CONDENSER SYSTEMS IN H.V.H.Z. (180 M.P.H.)

THESE STANDS ARE DESIGNED TO SUPPORT ONE CONDENSER EACH. CONDENSER UNITS SUPPORTED CAN VARY BY MODEL, BY SIZE, AND BY WEIGHT.

MAX. WEIGHT OF CONDENSER EQUIPMENT SUPPORTED ON ANY INDIVIDUAL STAND IS 500 LBS.

EACH OF THESE STANDS REQUIRES 16 CORROSION RESISTANT ANCHOR POINTS (4 PER FOOT) INTO THE ROOF OR CURB STRUCTURE.

(PER IBC Eq.16-15) EACH OF THESE ANCHOR POINTS MUST HAVE:

1. A MINIMUM TENSION RATED CAPACITY OF 900 lbs.

2. A MINIMUM SHEAR RATED CAPACITY OF 100 lbs.

MAXIMUM DOWNWARD FOOT REACTION (PER FOOT) ON SUPPORTING ROOF OR CURB IS 300 LBS. OR LESS (IBC Eq. 16-12)

H OR HT OR HMD HURRICANE PADS FROM DIVERSITECH CAN BE USED AS A CURB STRUCTURE TO AVOID ROOF PENETRATION.

A REGISTERED PROFESSIONAL ENGINEER MUST PROVIDE ALL THE SUPPORTING CALCULATIONS FOR THIS FORM OF STAND SUPPORT.

THE QSMS1205/1805/2405 AND QSTD3000/3001 AND THEIR VARIANTS ARE TO SUPPORT GENERAL CONDENSER SYSTEMS IN H.V.H.Z. (180 M.P.H.)

THESE STANDS ARE DESIGNED TO SUPPORT ONE CONDENSER EACH. CONDENSER UNITS SUPPORTED CAN VARY BY MODEL, BY SIZE, AND BY WEIGHT.

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A REGISTERED PROFESSIONAL ENGINEER MUST PROVIDE ALL THE SUPPORTING CALCULATIONS FOR THIS FORM OF STAND SUPPORT.

The anchors listed below meet the requirements specified above for anchoring into a CONCRETE or WOOD roof deck.

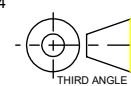
Anchoring into other materials must be specified by a Registered Professional Engineer.

For f'c > 3000 psi (20.7 MPa) Concrete - Cracked & Uncracked - 100' BLDG - Risk Cat. II - Exposure C		
Anchor Size (Select Any Below)	Minimum Embedment	Minimum Edge Distance
3/8" Titen HD anchors	3 - 3/4"	4 - 1/2"
3/8" Strong-Tie Strong Bolt	2"	6"
3/8" Hilti KWIK Bolt TZ	2 - 5/16"	4"
3/8" Heavy Duty Tapcon	2 - 1/2"	4"
5/16" Heavy Duty Tapcon	1 - 3/4"	4"

Wood, G = 0.42 Min., Cd = 1.6 - 15' BLDG - Risk Cat. II - Exposure C			
Anchor Size	Minimum Embedment	Minimum Edge Distance	Minimum End Distance
3/8" LAG Screw	2 - 1/2"	5/8" into side grain	1 - 1/2"

UNLESS OTHERWISE SPECIFIED:
 DIMENSIONS ARE IN INCHES [MILLIMETERS]
 TOLERANCES ARE: ANGLES ±1.0°
 FRACTIONAL SIZES X/Y ±1/64

INCHES	[MILLIMETERS]
X = ±0.1	[X = ± 2.5]
.XX = ±0.01	[.X = ± 1.3]
.XXX = ±0.005	[.XX = ±0.13]

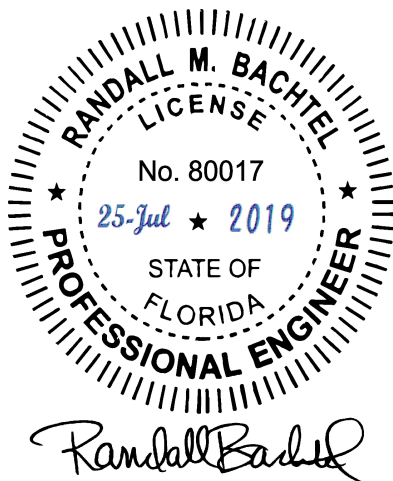



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ASSEMBLY: QSMS3001	WEIGHT: GMS.
DWG. NO. FL-22415.3	REV. R1
DESCRIPTION:	SHEET 22 OF 23



FBC TAS 114 App. E / G-90 Corrosion Testing
 TESTING APPLICATION STANDARD (TAS) 114-95 - APPENDIX E
 TEST PROCEDURE FOR CORROSION RESISTANCE OF FASTENERS, BATTEN BARS AND STRESS DISTRIBUTION PLATES

1.0 Scope:

1.1 The corrosion test procedure is designed to assess the potential damage to nails, metal fasteners, batten bars and stress distribution plates used for mechanically attached roof covers and/or attachment of insulation. There is no single test procedure that approximates all climactic conditions experienced by roofing components; however, tests are available that provide an indication of potential resistance to corrosion.

1.2 All nails and carbon steel fasteners shall be tested for corrosion resistance in compliance with ASTM Standard Practice G85 [(Modified Salt Spray (Fog) Testing)], Annex A5 (Dolute Electrolyte Cyclic Fog/Dry Testing) as modified for the Florida Building Code, Building and noted in Section 2, herein.

1.3 All batten bars, stress distribution plates, and other metal fastener types shall be tested for corrosion resistance in compliance with DIN 50018 as noted in Section 3, herein.

The following Testing was completed by DiversiTech / Bells Powder Coating - March/April 2018

ASTM B117: Neutral Salt Spray

ASTM D7091: Film Thickness

ASTM D3359: Adhesion

Physical Testing Laboratory Report			
Project Number:	188,819	Customer:	Bells Powder Coating
Date Received:	23 March 2018	Location:	North Attleboro, MA
Report Date:	20 April 2018	Customer ID:	70601
TSM:	B. Ward	RSM:	D. Elvin
P.O. Number:			

Physical Testing Laboratory Report			
Project Number:	188,819	Customer:	Bells Powder Coating
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TSM:	B. Ward	RSM:	D. Elvin
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Physical Testing Laboratory Report			
Project Number:	188,819	Customer:	Bells Powder Coating
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TSM:	B. Ward	RSM:	D. Elvin
P.O. Number:			

ASTM B117: Neutral Salt Spray										
504 Hours										
Start Date:	29 March 2018				Completion Date:	19 April 2018				
Sample ID	Minimum (mm's)	Maximum (mm's)	Mean Arithmetic	Mean ASTM	ASTM D610/D714: Rust/Blister Field Rating	ASTM D7091: Film Thickness (mm's)				
1	0.0	2.6	0.3	9	10/10	2.6-3.4	5B			
2	0.0	2.9	0.2	9	9P/10	2.0-2.5	5B			
3	0.0	6.8	2.1	6	9P/10	1.7-2.1	5B			

Field Rating Key-Blister and Rust Ratings									
Blister Density					Rust Ratings				
ASTM D714	ISO 4628-2		ASTM D610		ISO 4628-3				
Rating Letter	Rating	Rating Number	Rating	Rust Grade	Percent of Surface Rusted (Ranges)	Visual Examples			Rust Grade
n/a	None	0	None	10	≤ 0.01%	Spot	General	Pinpoint	Ri 0
F	Few	2	Few	9	>0.01% to 0.03%	9S	9G	9P	Ri 1
M	Medium	3	Moderate	8	>0.03% to 0.1%	8S	8G	8P	Ri 2
MD	Medium Dense	4	Considerable	7	>0.1% to 0.3%	7S	7G	7P	Ri 3
D	Dense	5	Dense	6	>0.3% to 1.0%	6S	6G	6P	Ri 4
Blister Size					>1.0% to 3.0%	5S	5G	5P	Ri 5
ASTM D714	ISO 4628-2		Rating		>3.0% to 10.0%	4S	4G	4P	Ri 4
Rating Number	Rating Number				>10.0% to 16.0%	3S	3G	3P	Ri 3
10	0	No Blistering	0 mm	2	>16.0% to 33.0%	2S	2G	2P	Ri 2
n/a	S1	Requires Magnification	1		>33.0% to 50.0%	1S	1G	1P	Ri 1
8	S2	Pinpoint	0-1 mm	0	> 50.0%	0	0	0	Ri 0
6	S3	Small	1-2 mm						
4	S4	Medium	2-3 mm						
2	S5	Large	3-5 mm						
0		Very Large	>5mm						

Scribe Rating Key			
Scribe Ratings Numbers		Representative Creepage From Scribe "One-sided"	
ASTM D1654	ISO 4628-8	Millimeters	Inches
Mean Rating Number	Corrosion Grade		
10	0-None	0	0
9	1-Very Slight	Over 0 to 0.5	Over 0 to 1/64
8	2-Moderate	Over 0.5 to 1.0	Over 1/64 to 1/32
7	3-Moderate	Over 1.0 to 2.0	Over 1/32 to 1/16
6	4-Considerable	Over 2.0 to 3.0	Over 1/16 to 1/8
5	5-Severe	Over 3.0 to 5.0	Over 1/8 to 3/16
4		Over 5.0 to 7.0	Over 3/16 to 1/4
3		Over 7.0 to 10.0	Over 1/4 to 3/8
2		Over 10.0 to 13.0	Over 3/8 to 1/2
1		Over 13.0 to 16.0	Over 1/2 to 5/8
0		Greater Than 16.0	Greater Than 5/8
S	Spot Creepage	Isolated Creepage that Encompasses Less Than 25% of The Scribe	

Each of the Physical Members belonging to the Quick Sling Stands are powder coated and tested to the SALT SPRAY - SPECIFICATION ABOVE.
 All hardware provided with QuickSling Stands are Hot Dip Galvanized (HDP) and are considered to be corrosion resistant.
 Any additional hardware that is supplied by the customer or OEM must be STAINLESS STEEL or Hot Dip Galvanized (HDP) to meet the corrosion resistance requirements.
 This includes any hardware used to anchor the QuickSling Stand to the roof as well as hardware used to mount the equipment to the QuickSling Stand.

FBC 1522.3
 Machinery, piping, conduit, ductwork, signs and similar equipment may be mounted on roofs in compliance with the following:

TABLE 1522.3	
ROOF MOUNTED EQUIPMENT HEIGHT REQUIREMENTS	
WIDTH OF EQUIPMENT (in.)	HEIGHT OF LEGS (in.)
Up to 24	14
25 to 36	18
37 to 48	24
49 to 60	30
61 and wider	48

1522.3.1
 Permanently mounted rooftop equipment shall be installed to provide clearances, in accordance with Table 1522.3, to permit repairs, replacement and/or maintenance of the roofing system or any of its components.

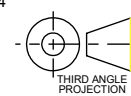
1522.3.2
 When reroofing, recovering, performing repair or roof maintenance, and where the roof top equipment is moved to properly execute such work, the minimum clearances of the said equipment support shall be in accordance with Table 1522.3.

1522.3.3
 In buildings where the existing rooftop equipment, in the opinion of the building official, provides sufficient clearance to repair, recover, replace and/or maintain the roofing system or any of its components, such existing equipment need not comply with Table 1522.3.
 The maximum WIDTH of any equipment mounted to a QSMS1200 / 1201 / 1202 / 1205 stand as part of FL 22415-1 submittal is 24.0 inches.
 The requirement for this condition is to have legs that are 14" tall. The QSMS1200 / 1201 / 1202 / 1205 stands each have a leg height that is 13.5" tall.
 The maximum WIDTH of any equipment mounted to a QSTD3000/3001 and QSMS1800 / 1801 / 1802 / 1805 stand as part of FL 22415-1 submittal is 36.0 inches.
 The requirement for this condition is to have legs that are 18" tall. The QSTD3000/3001 and QSMS1800 / 1801 / 1802 / 1805 stands each have a leg height that is 19.5 tall.
 The maximum WIDTH of any equipment mounted to a QSMS 2400 / 2401 / 2402 / 2405 as part of FL 22415-1 submittal is 40.0 inches.
 The requirement for this condition is to have legs that are 24" tall. The QSMS 2400 / 2401 / 2402 / 2405 stands each have a leg height that is 25.5" tall.

Adhesion Classifications		
ASTM D3359	ISO 2409	Percent Area Removed
Method A	Method B	
5A	5B	0%
4A	4B	Less Than 5%
3A	3B	5% to 15%
2A	2B	15% to 35%
1A	1B	35% to 65%
0A	0B	Greater than 65%

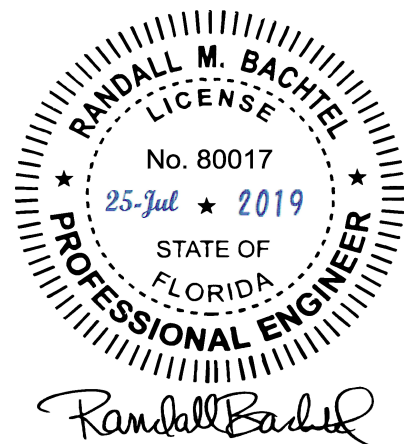
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 DESCRIPTION

ASSEMBLY:	QSMS3001	WEIGHT	GMS.
DWG. NO.	FL-22415.3	REV.	R1
		SHEET	23 OF 23



Randall Bachtel