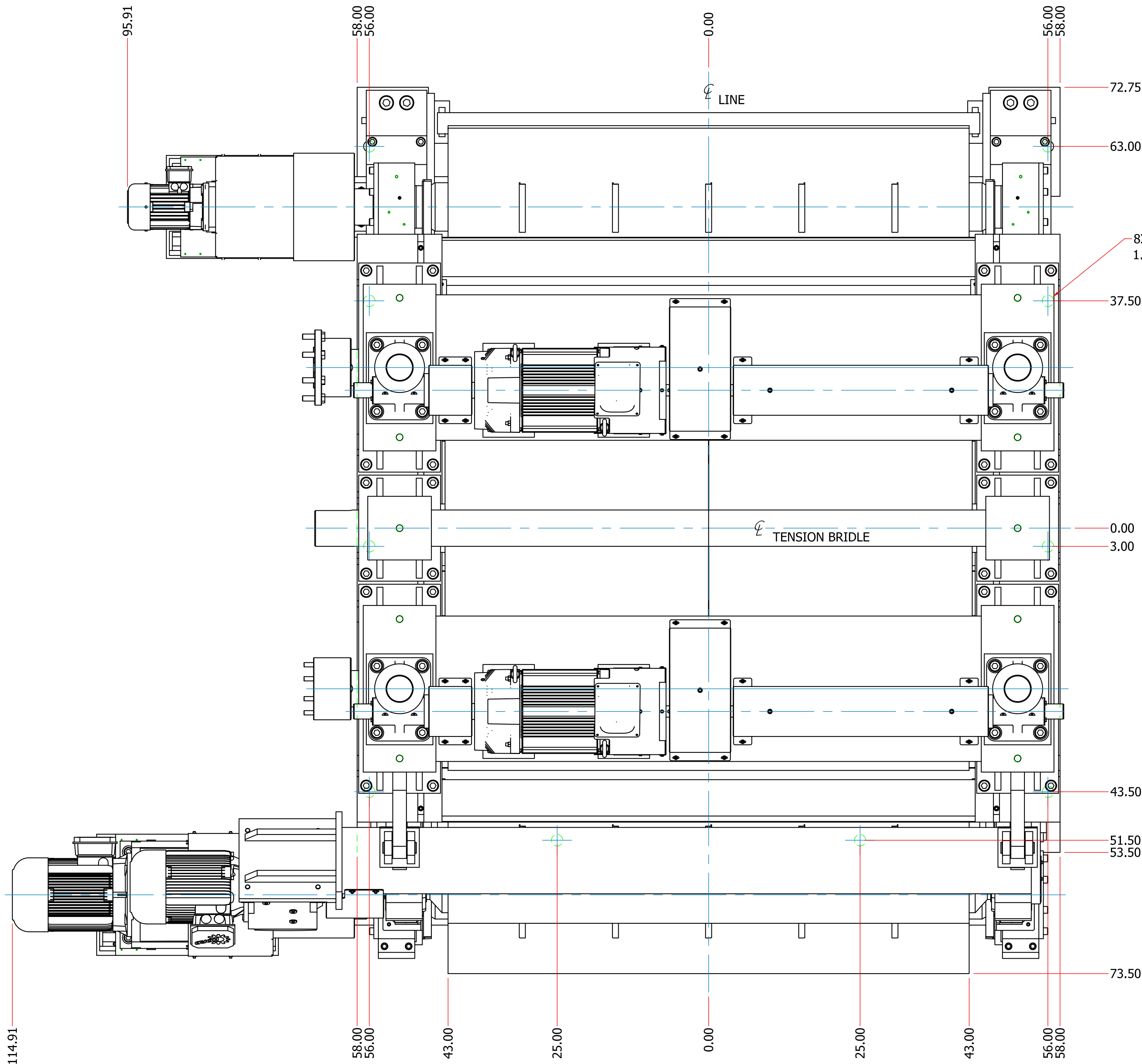
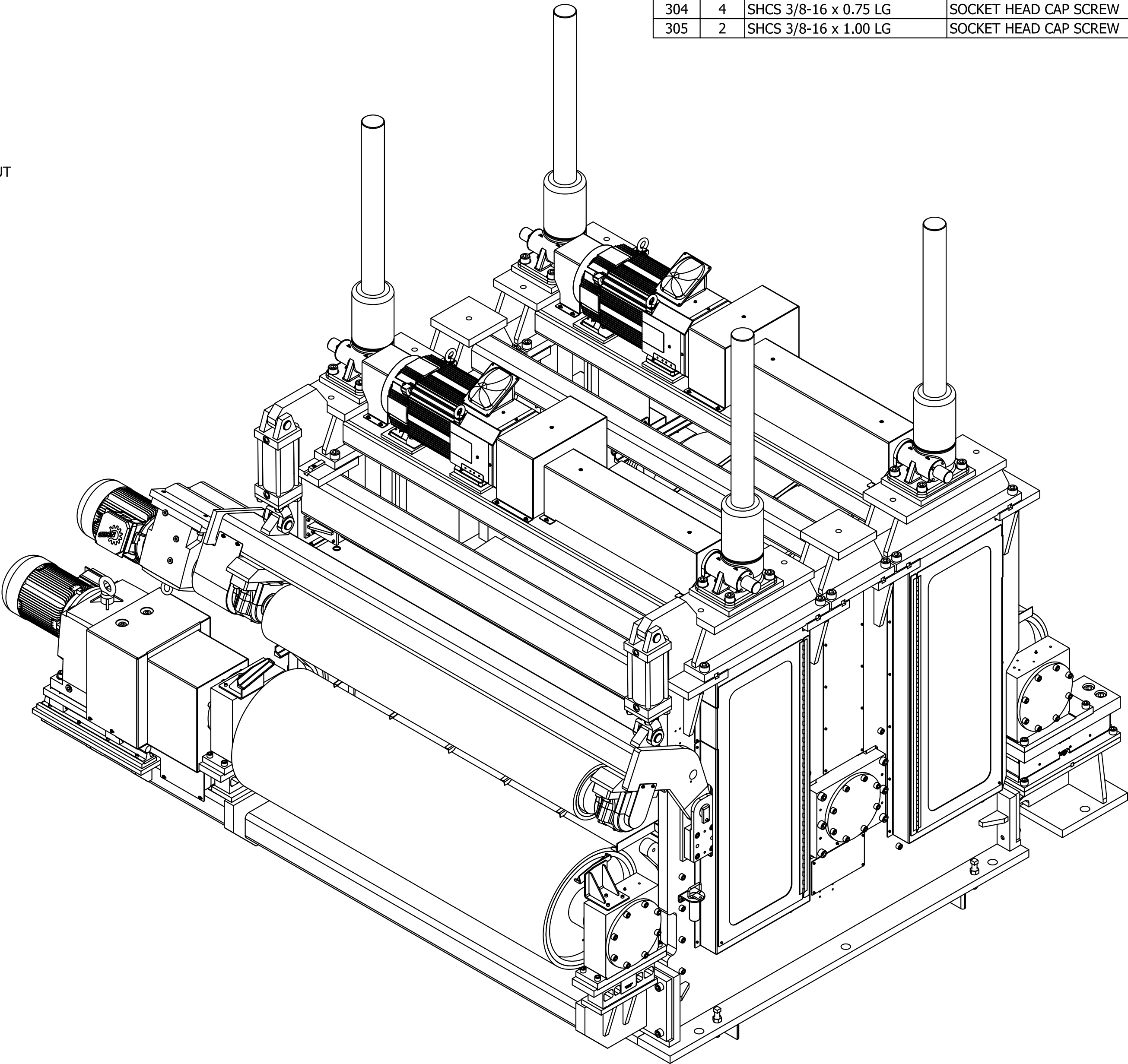
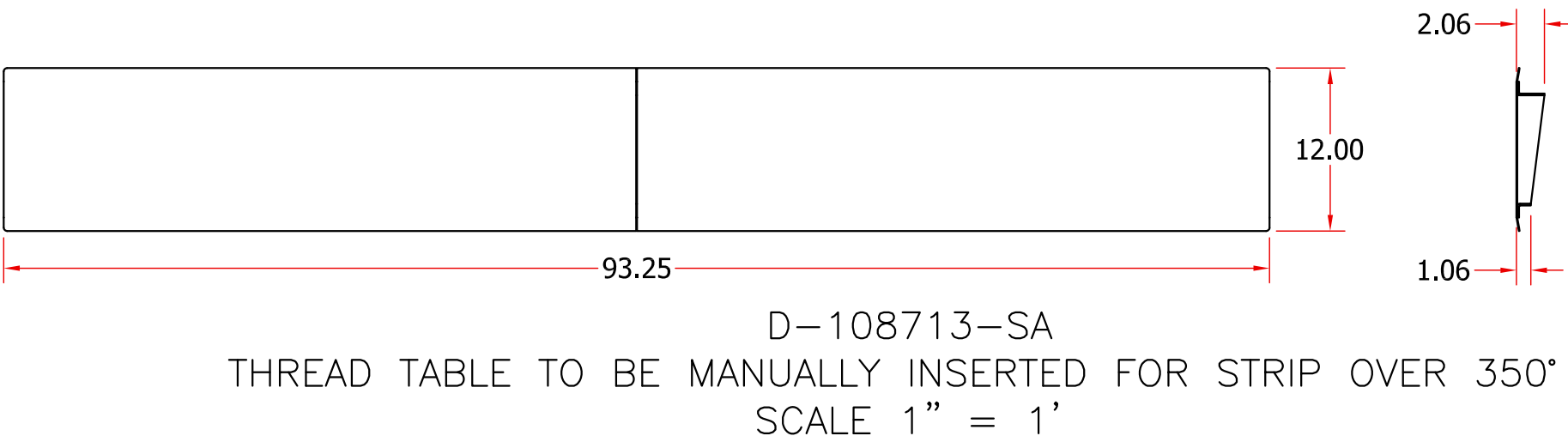




VIEW A-A
SCALE 1" = 1'



ISOMETRIC VIEW
SCALE 3/4" = 1'

USE HIGH TEMP GREASE
DURALUBE SAC-1.5

Parts List			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	D-108657-SA	TENSION BRIDLE BASE ASS'Y
2	1	D-108658-SA	ENTRY ROLL ASSEMBLY
3	1	D-108659-SA	EXIT ROLL ASSEMBLY
4	1	D-108660-SA	SNUBBER ROLL ASSEMBLY
101	2	D-108402-SA	HOLDER - PIN
102	2	D-108679-SA	PIVOT BRACKET
103	2	D-108680-SA	PIVOT PIN
104	5	D-108713-SA	THREADING PANEL
105	2	D-108737-SA	PIN - SAFETY
201	2	PARKER 5.00BB2HLT14A9.000	HYDRAULIC CYLINDER
202	2	PARKER 50946	FEMALE ROD CLEVIS
203	2	PARKER 68372	PIVOT PIN
301	4	PD 1/2 x 2.00 LG	PULL DOWEL - HARDENED STEEL
302	14	SHCS 1-8 x 3.00 LG	SOCKET HEAD CAP SCREW
303	8	SHCS 3/4-10 x 3.00 LG	SOCKET HEAD CAP SCREW
304	4	SHCS 3/8-16 x 0.75 LG	SOCKET HEAD CAP SCREW
305	2	SHCS 3/8-16 x 1.00 LG	SOCKET HEAD CAP SCREW

2014/2015 MICROMILL UPGRADE PROJECT

FOR CONSTRUCTION



Machine Concepts Inc.
2167 St. Rt. 66
P.O. Box 127
Minster, Ohio 45865
(419)628-3498 FAX 2794

TOLERANCES
UNLESS OTHERWISE SPECIFIED
.XX = ± .03
.XXX = ± .005
ANGLES: XX.X = ± 0.5°

THIRD ANGLE PROJECTION



DATE 1/6/2015
PROJECT NO. 14-410
DRAWING NUMBER

COMPANY NAME Machine Concepts Inc.
REFERENCE NO.

DRAWING NO.

REFERENCE DRAWINGS

A	2/4/2015	NMCC	RAHR
NO	DATE	BY	CKD

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ALCOA MICROMILL
SAN ANTONIO WORKS



DATE 1/6/2015
WEIGHT 60948.8 lbmass
DESIGNED BY NMCC
DRAWN BY NMCC
CHECKED BY RAHR
APPROVED BY RAHR

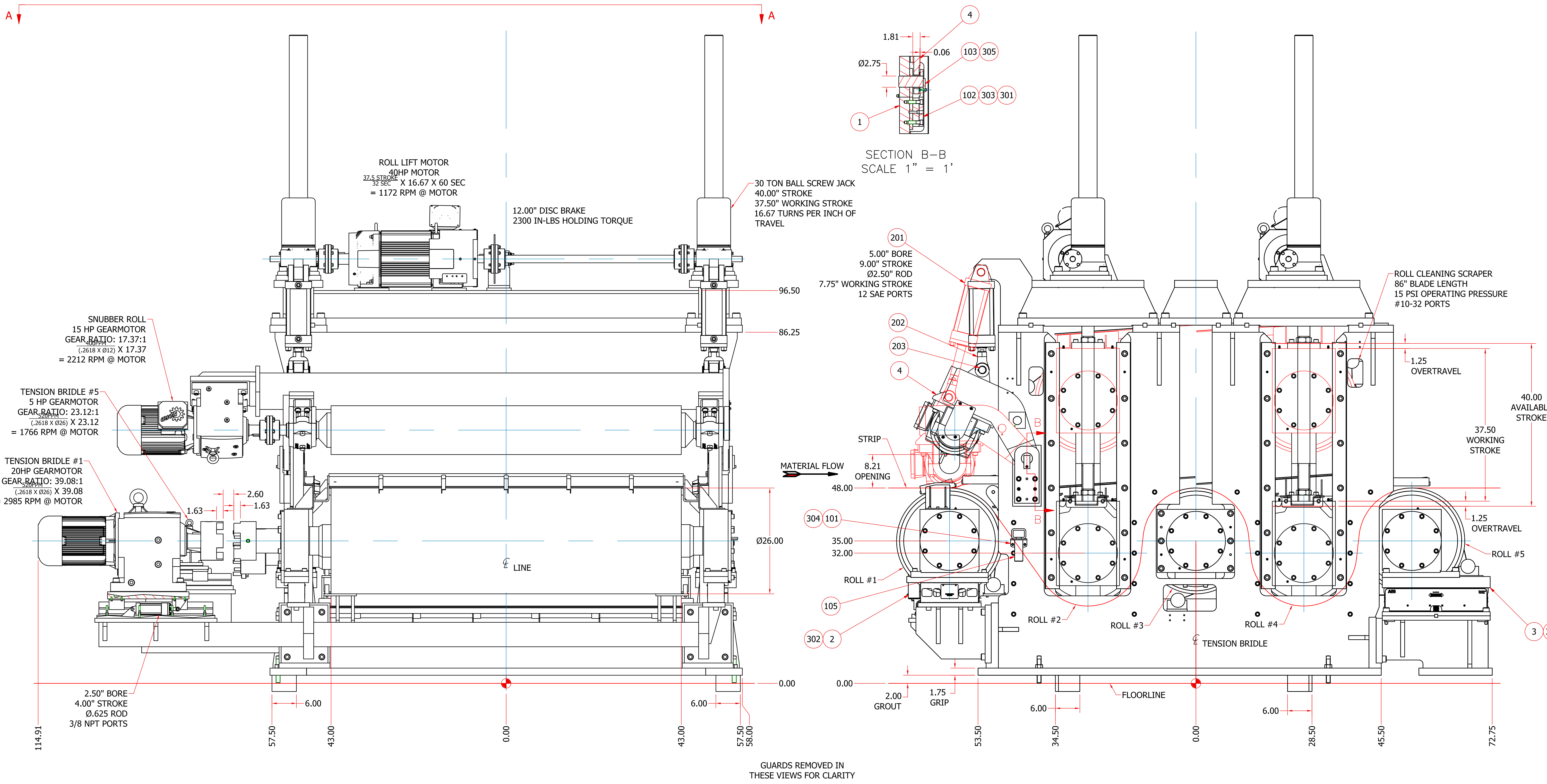
TENSION BRIDLE
GENERAL ARRANGEMENT
BRIDLE ASSEMBLY

AREA TOLERANCE

DRAWING NUMBER

SHEET 1 of 2
SCALE 1" = 1'

D-108656-SA



2014/2015 MICROMILL UPGRADE PROJECT

FOR CONSTRUCTION

Machine Concepts Inc.
2167 St. Rt. 66
P.O. Box 127
Minster, Ohio 45865
(419) 628-3498 FAX 2794

TOLERANCES UNLESS OTHERWISE SPECIFIED XXX = ± .03 XXX = ± .005 XXX = ± .0005 ANGLES: XX.X = ± 0.5°		THIRD ANGLE PROJECTION
DATE 1/6/2015	COMPANY NAME Machine Concepts Inc.	
PROJECT NO. 14-410	REFERENCE NO.	
DRAWING NUMBER		

DRAWING NO.	REFERENCE DRAWINGS
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A	2/4/2015	NMCC	RAHR	RELEASED FOR CONSTRUCTION
NO	DATE	BY	CKD	REVISION DESCRIPTION
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ALCOA MICROMILL
SAN ANTONIO WORKS

DATE
1/6/2015

WEIGHT
60948.8 lbmass

DESIGNED BY
NMCC

DRAWN BY
NMCC

CHECKED BY
RAHR

APPROVED BY
RAHR

TENSION BRIDLE
GENERAL ARRANGEMENT
BRIDLE ASSEMBLY

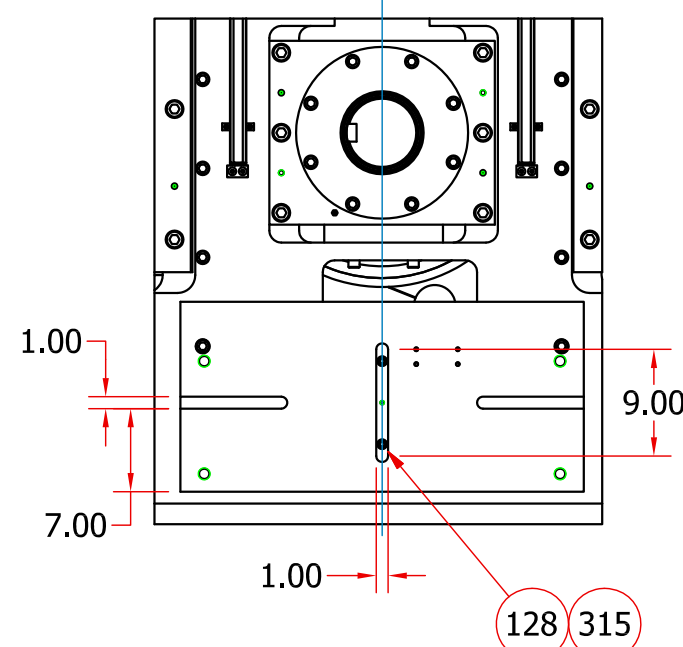
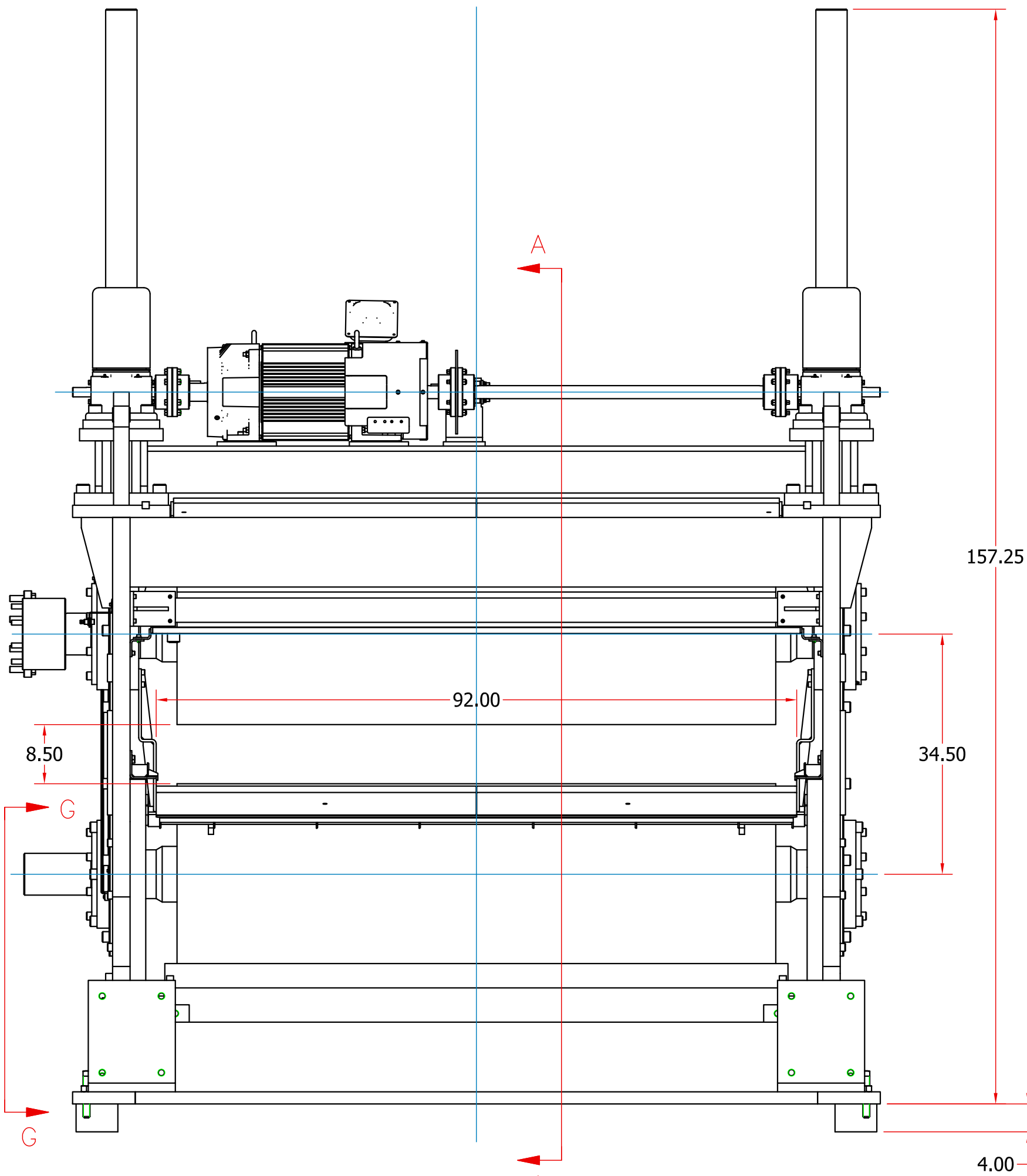
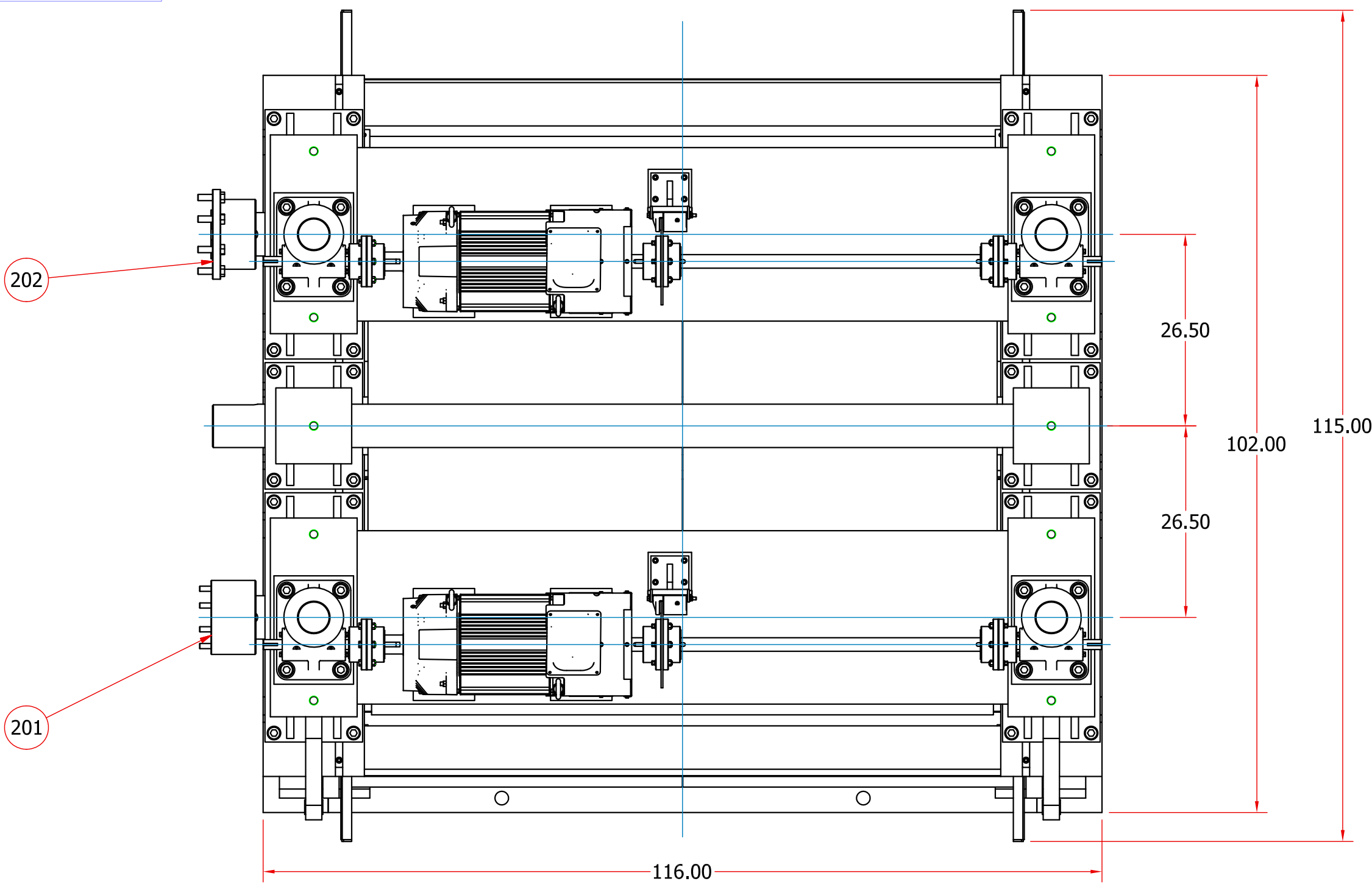
AREA
TOLERANCE

DRAWING NUMBER
D-108656-SA

SHEET
2 OF 2

SCALE
1" = 1'

D-108657-SA



VIEW G-G
SCALE 3/4" = 1'

GUARDS REMOVED IN ALL VIEWS FOR CLARITY.
SEE SHEET 3 FOR GUARDS

Machine Concepts, Inc.
2167 St. Rt. 66
P.O. Box 127
Winters, Ohio 45865
(419)628-3498 FAX 2794

TOLERANCES
UNLESS OTHERWISE SPECIFIED
XX = ± .05
XXX = ± .005
ANGLES: 30° = 30°

THIRD ANGLE PROJECTION

DATE 1/9/2015
PROJECT NO. 14-110

COMPANY NAME Machine Concepts Inc.
REFERENCE NO.

DRAWING NUMBER

DRAWING NO.

REFERENCE DRAWINGS

A	2/4/2015	NMCC	RAHR
NO	DATE	BY	CHK

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TENSION BRIDLE
GENERAL ARRANGEMENT
TENSION BRIDLE BASE ASS'Y

DATE 1/9/2015
WEIGHT 41523.9 lbmoss
DESIGNED BY NMCC
DRAWN BY NMCC
CHECKED BY RAHR
APPROVED BY RAHR

AREA
TOLERANCE
DRAWING NUMBER

1 of 3
SCALE 3/4" = 1'

D-108657-SA

Parts List				Parts List			
ITEM	QTY	PART NUMBER	DESCRIPTION	ITEM	QTY	PART NUMBER	DESCRIPTION
301	8	1/8 NPT 90deg Zerk	GREASE ZERK	101	1	D-108581-SA	THREAD TABLE
302	6	1/8 NPT ST Zerk	GREASE ZERK	102	1	D-108582-SA	FOLDING THREAD TABLE WING
303	6	AN-32	BEARING LOCKNUT	103	4	D-108594-SA	GUARD
304	4	BHCS 3/8-16 x 1.50 LG	BUTTON HEAD CAP SCREW	104	2	D-108595-SA	GUARD
305	26	FW 1/4	FLAT WASHER	105	2	D-108596-SA	GUARD
306	24	FW 3/8	FLAT WASHER	106	2	D-108597-SA	GUARD
307	4	HN 1-8 UNC	HEX NUT	107	1	D-108598-SA	GUARD
308	6	HSPP-FS 1/8 NPT	HEX SOCKET PIPE PLUG - FLUSH SEAL	108	1	D-108599-SA	GUARD
309	16	PD 1/2 x 2.00 LG	PULL DOWEL - HARDENED STEEL	109	1	D-108600-SA	GUARD
310	4	PD 1/2 x 4.00 LG	PULL DOWEL - HARDENED STEEL	110	1	D-108601-SA	GUARD
311	2	SHCS #10-24 x 0.75 LG	SOCKET HEAD CAP SCREW	111	4	D-108604-SA	CONNECTION PLATE
312	40	SHCS 1 1/4-7 x 3.50 LG	SOCKET HEAD CAP SCREW	112	2	D-108644-SA	BLOCK - TRANSDUCER
313	48	SHCS 1-8 x 3.00 LG	SOCKET HEAD CAP SCREW	113	1	D-108665-SA	BASE FRAME
314	12	SHCS 1-8 x 4.50 LG	SOCKET HEAD CAP SCREW	114	1	D-108666-SA	EXIT TOP FRAME
315	74	SHCS 1/2-13 x 1.00 LG	SOCKET HEAD CAP SCREW	115	3	D-108670-SA	BRIDLE ROLL
316	8	SHCS 1/2-13 x 1.50 LG	SOCKET HEAD CAP SCREW	116	1	D-108671-SA	FLOATING BEARING BLOCK
317	8	SHCS 1/2-13 x 1.75 LG	SOCKET HEAD CAP SCREW	117	1	D-108672-SA	FIXED BEARING BLOCK
318	72	SHCS 1/4-20 x 0.50 LG	SOCKET HEAD CAP SCREW	118	3	D-108673-SA	BEARING SPACER
319	8	SHCS 1/4-20 x 0.75 LG	SOCKET HEAD CAP SCREW	119	3	D-108674-SA	BEARING RETAINER
320	48	SHCS 3/4-10 x 1.50 LG	SOCKET HEAD CAP SCREW	120	3	D-108675-SA	BEARING RETAINER
321	16	SHCS 3/4-10 x 2.50 LG	SOCKET HEAD CAP SCREW	121	8	D-108676-SA	GIBBING
322	38	SHCS 3/4-10 x 3.50 LG	SOCKET HEAD CAP SCREW	122	2	D-108677-SA	FLOATING BEARING BLOCK
323	24	SHCS 3/8-16 x 0.75 LG	SOCKET HEAD CAP SCREW	123	2	D-108678-SA	FIXED BEARING BLOCK
324	32	SHCS 3/8-16 x 1.00 LG	SOCKET HEAD CAP SCREW	124	2	D-108684-SA	SPACER
325	12	SHCS 5/16-18 x 1.00 LG	SOCKET HEAD CAP SCREW	125	1	D-108686-SA	MIDDLE TOP FRAME
326	4	SHCS 5/8-11 x 2.25 LG	SOCKET HEAD CAP SCREW	126	1	D-108687-SA	ENTRY TOP FRAME
327	4	SQHSS-FP 1-8 x 6.00 LG	SQUARE HEAD SET SCREW - FLAT POINT	127	2	D-108688-SA	SHAFT
328	6	W-32	BEARING LOCKWASHER	128	1	D-108696-SA	KEY
164	8	SYMMCO SS-2432-12	BRONZE SLEEVE BEARING	129	8	D-108697-SA	SHIM
165	2	SYMMCO SS-5664-40	BRONZE SLEEVE BEARING	130	2	D-108703-SA	BRAKE DISC

Parts List				Parts List			
ITEM	QTY	PART NUMBER	DESCRIPTION	ITEM	QTY	PART NUMBER	DESCRIPTION
131	2	D-108704-SA	CALIPER MOUNT	201	1	AMERIDRIVES 335466-001	U-JOINT COUPLING
132	1	D-108705-SA	THREAD TABLE	202	1	AMERIDRIVES 335468-001	U-JOINT COUPLING
133	2	D-108706-SA	FOLDING THREAD TABLE BASE	203	2	BALDOR 617245-309	40HP MOTOR DOUBLE SHAFT
134	2	D-108707-SA	FOLDING THREAD TABLE WING	204	2	BALLUFF BTL Z-5-GS08-0075	CONTROL ARM - 75mm LG
135	4	D-108708-SA	TABLE RACE	205	2	BALLUFF BTL5-E10-M1067-P-S32-US	LINEAR TRANSDUCER
136	4	D-108709-SA	TABLE RACE	206	2	BALLUFF BTL5-F-2814-1S	MAGNET
137	1	D-108710-SA	FOLDING THREAD TABLE WING	207	2	BALLUFF BTL5-SWIVEL EYE	SWIVEL EYE
138	2	D-108711-SA	DRIP PAN	208	3	CR 60026	SHAFT SEAL
139	4	D-108712-SA	MOUNTING BRACKET	209	6	CR 70054	SHAFT SEAL
140	2	D-108714-SA	THREAD TABLE MOUNT	210	3	CR 99599	WEAR SLEEVE
141	1	D-108735-SA	BRACKET	211	6	CR 99700	WEAR SLEEVE
142	2	D-108736-SA	MOUNTING PLATE	212	4	JOYCEDAYTON WB1130I3S-40.00-STDx-STDx-S	30 TON BALL SCREW JACK 11:1 RATIO, QS14493
143	3	D-108738-SA	SPHERICAL ROLLER BEARING	213	3	KADANT VERILITE 3.5 - 92.5	ROLL SCRAPER
144	20	D-108739-SA	TOP KEY	214	8	MCGILL CF-1 1/2-SB	CAM FOLLOWER 1.50" DIA.
145	8	D-108740-SA	PIVOT PIN	215	2	MCMaster-CARR 44605K667	1 NPT PIPE PLUG
146	6	D-108741-SA	SCRAPER MTG BRKT	216	4	MCMaster-CARR 90496A048	
147	2	D-108744-SA	THREAD TABLE MOUNT	217	16	ROTOR CLIP SH-75	RETAINING RING
201	1	AMERIDRIVES 335466-001	U-JOINT COUPLING	218	2	SCI FFC2-1.375-2.625	FULL FLEX COUPLING
202	1	AMERIDRIVES 335468-001	U-JOINT COUPLING	219	2	SCI FRFSC2-1.375R-1.875F	SCI RIGID-FLEX COUPLING, INTERFERENCE FIT
203	2	BALDOR 617245-309	40HP MOTOR DOUBLE SHAFT	220	2	SCI FRFSC2-1.875R-1.875F	RIGID-FLEX COUPLING
204	2	BALLUFF BTL Z-5-GS08-0075	CONTROL ARM - 75mm LG	221	3	SKF 22232 CC-W33	SPHERICAL ROLLER BEARING
205	2	BALLUFF BTL5-E10-M1067-P-S32-US	LINEAR TRANSDUCER	224	2	TOLOMATIC FS20BG	BRAKE CALIPER
206	2	BALLUFF BTL5-F-2814-1S	MAGNET	225	1	TURCK Bi8-M18-VP4X-H1141	PROX SENSOR - M18
207	2	BALLUFF BTL5-SWIVEL EYE	SWIVEL EYE				
208	3	CR 60026	SHAFT SEAL				
209	6	CR 70054	SHAFT SEAL				
210	3	CR 99599	WEAR SLEEVE				
211	6	CR 99700	WEAR SLEEVE				
212	4	JOYCEDAYTON WB1130I3S-40.00-STDx-STDx-S	30 TON BALL SCREW JACK 11:1 RATIO, QS14493				
213	3	KADANT VERILITE 3.5 - 92.5	ROLL SCRAPER				
214	8	MCGILL CF-1 1/2-SB	CAM FOLLOWER 1.50" DIA.				
215	2	MCMaster-CARR 44605K667	1 NPT PIPE PLUG				
216	4	MCMaster-CARR 90496A048					
217	16	ROTOR CLIP SH-75	RETAINING RING				
218	2	SCI FFC2-1.375-2.625	FULL FLEX COUPLING				
219	2	SCI FRFSC2-1.375R-1.875F	SCI RIGID-FLEX COUPLING, INTERFERENCE FIT				
220	2	SCI FRFSC2-1.875R-1.875F	RIGID-FLEX COUPLING				
221	3	SKF 22232 CC-W33	SPHERICAL ROLLER BEARING				
224	2	TOLOMATIC FS20BG	BRAKE CALIPER				
225	1	TURCK Bi8-M18-VP4X-H1141	PROX SENSOR - M18				

USE HIGH TEMP GREASE
DURALUBE SAC-1.5

2014/2015 MICROMILL UPGRADE PROJECT

FOR CONSTRUCTION

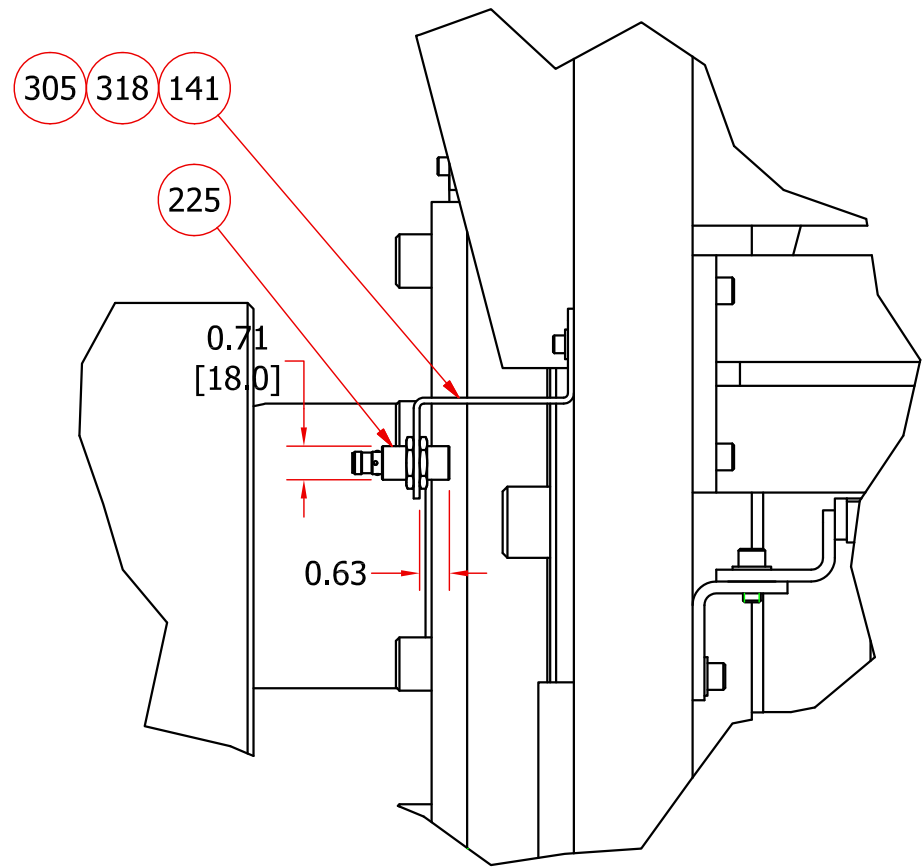
TENSION BRIDLE
GENERAL ARRANGEMENT
TENSION BRIDLE BASE ASS'Y

DATE 1/9/2015
WEIGHT 41523.9 lbmoss
DESIGNED BY NMCC
DRAWN BY NMCC
CHECKED BY RAHR
APPROVED BY RAHR

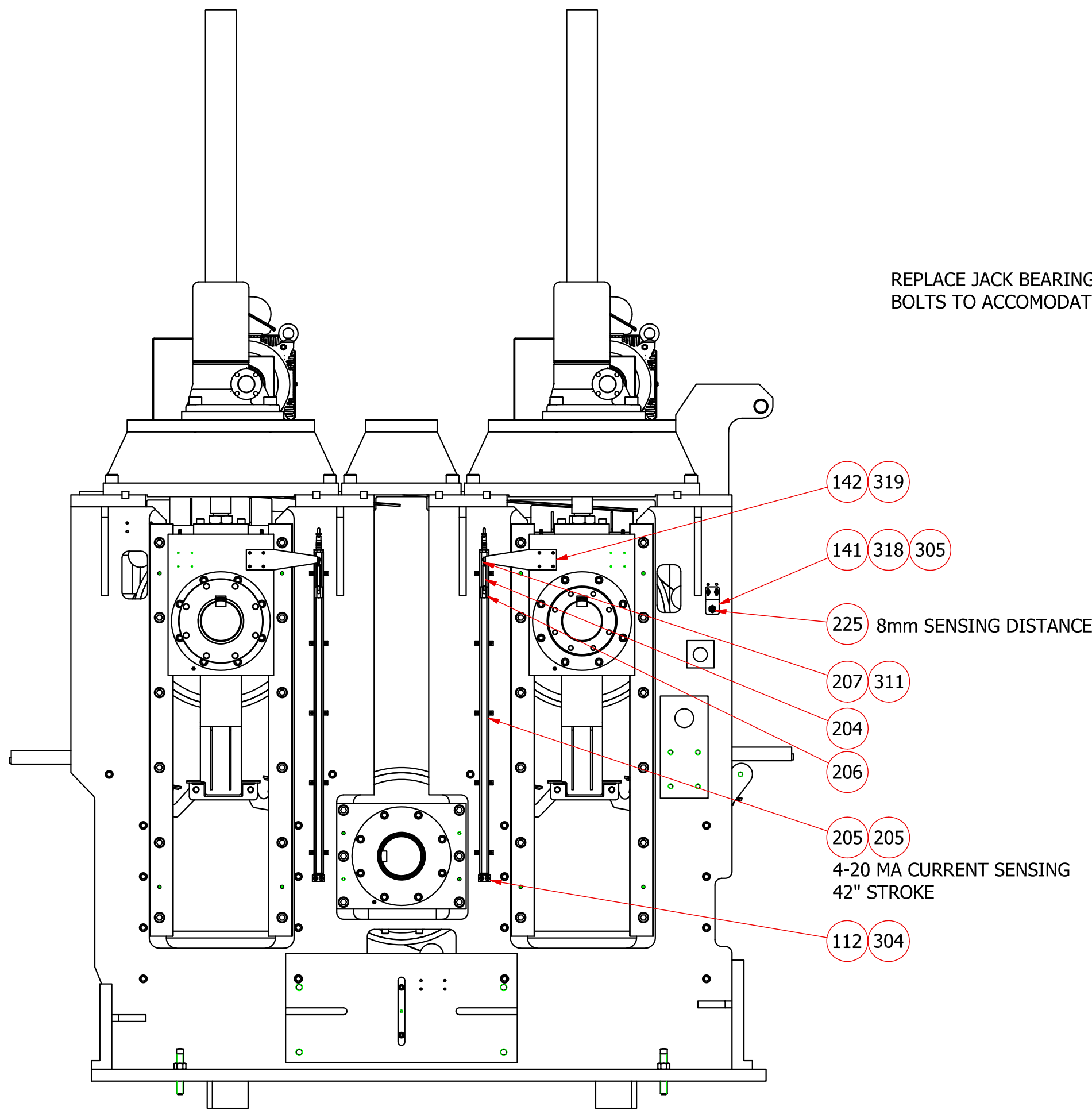
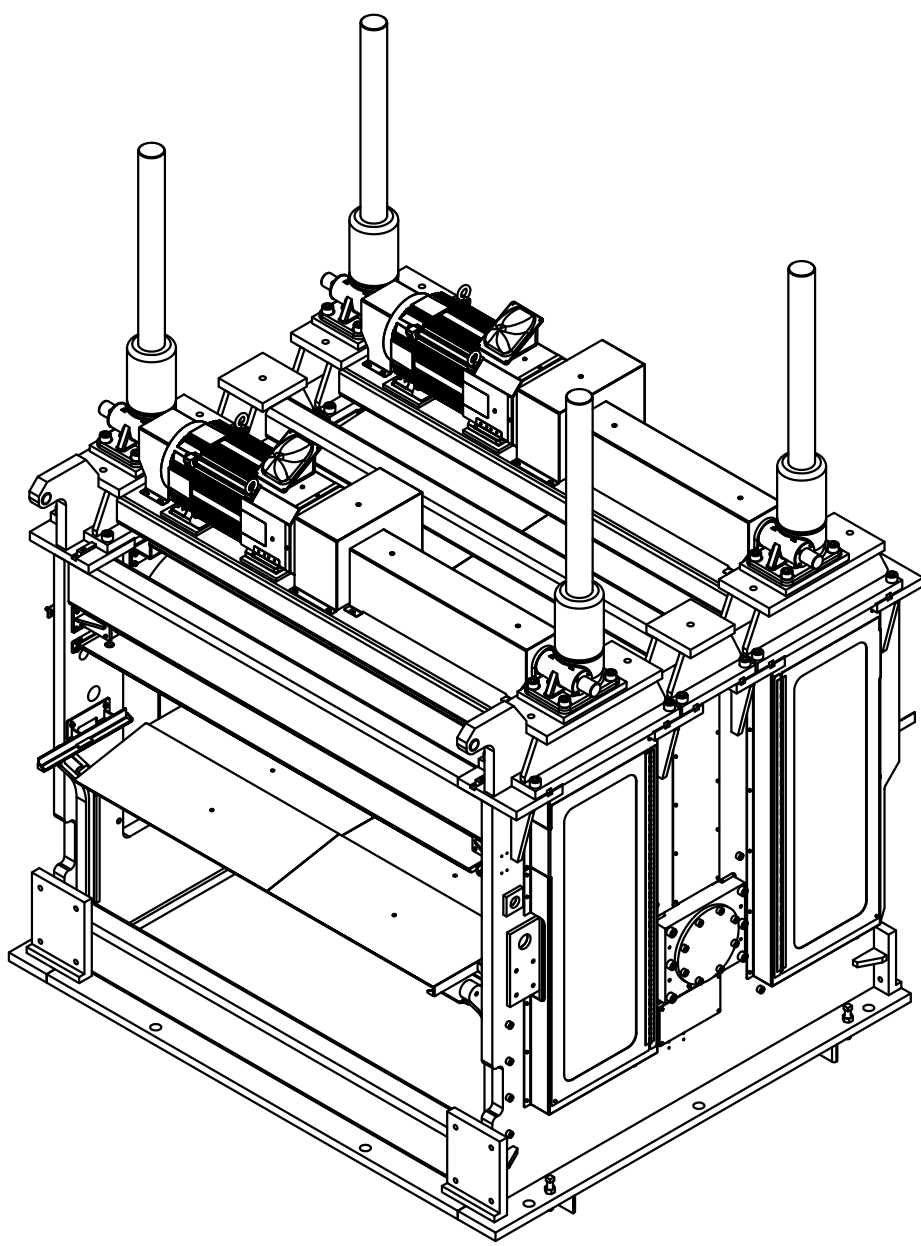
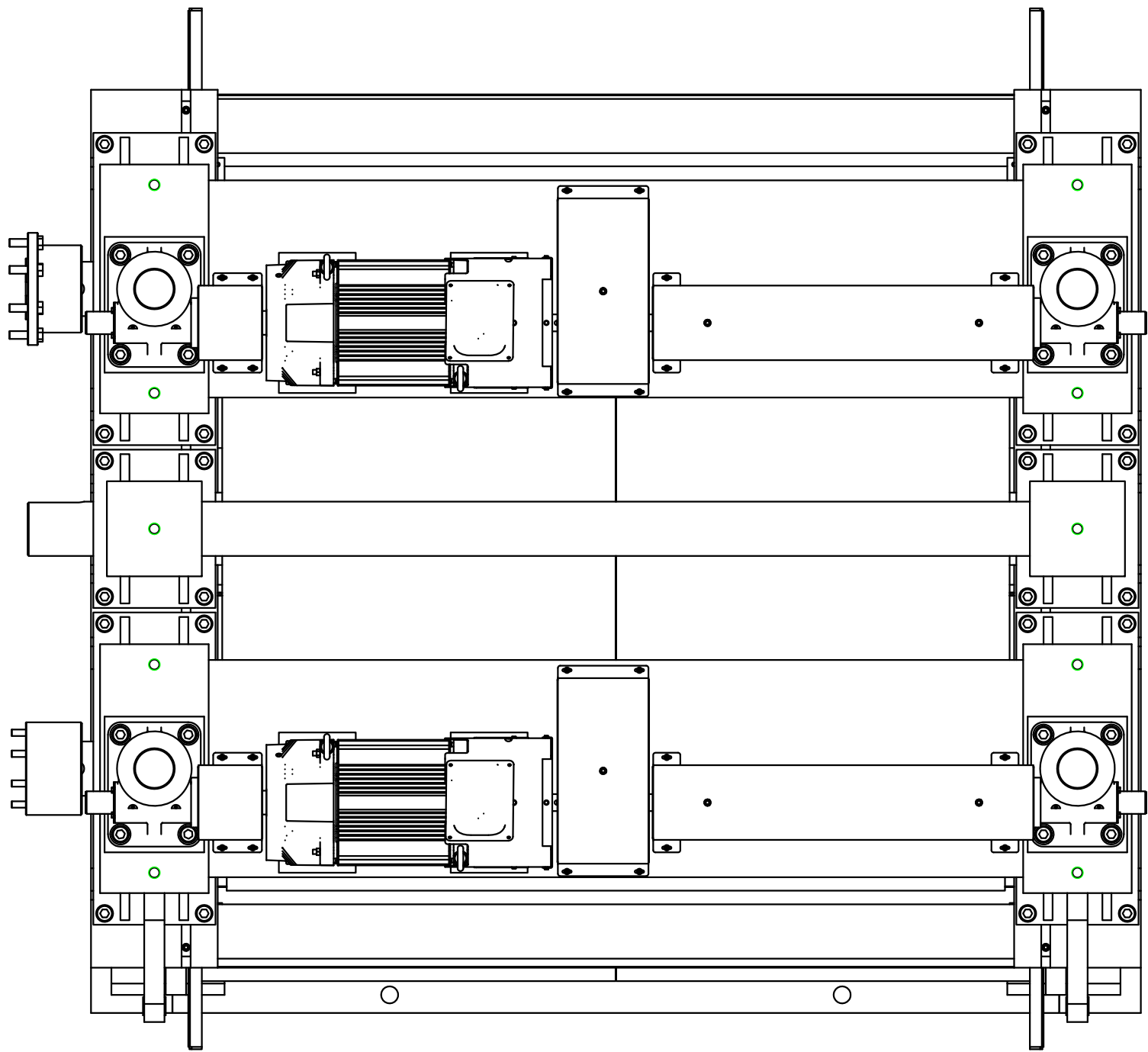
AREA
TOLERANCE
DRAWING NUMBER

1 of 3
SCALE 3/4" = 1'

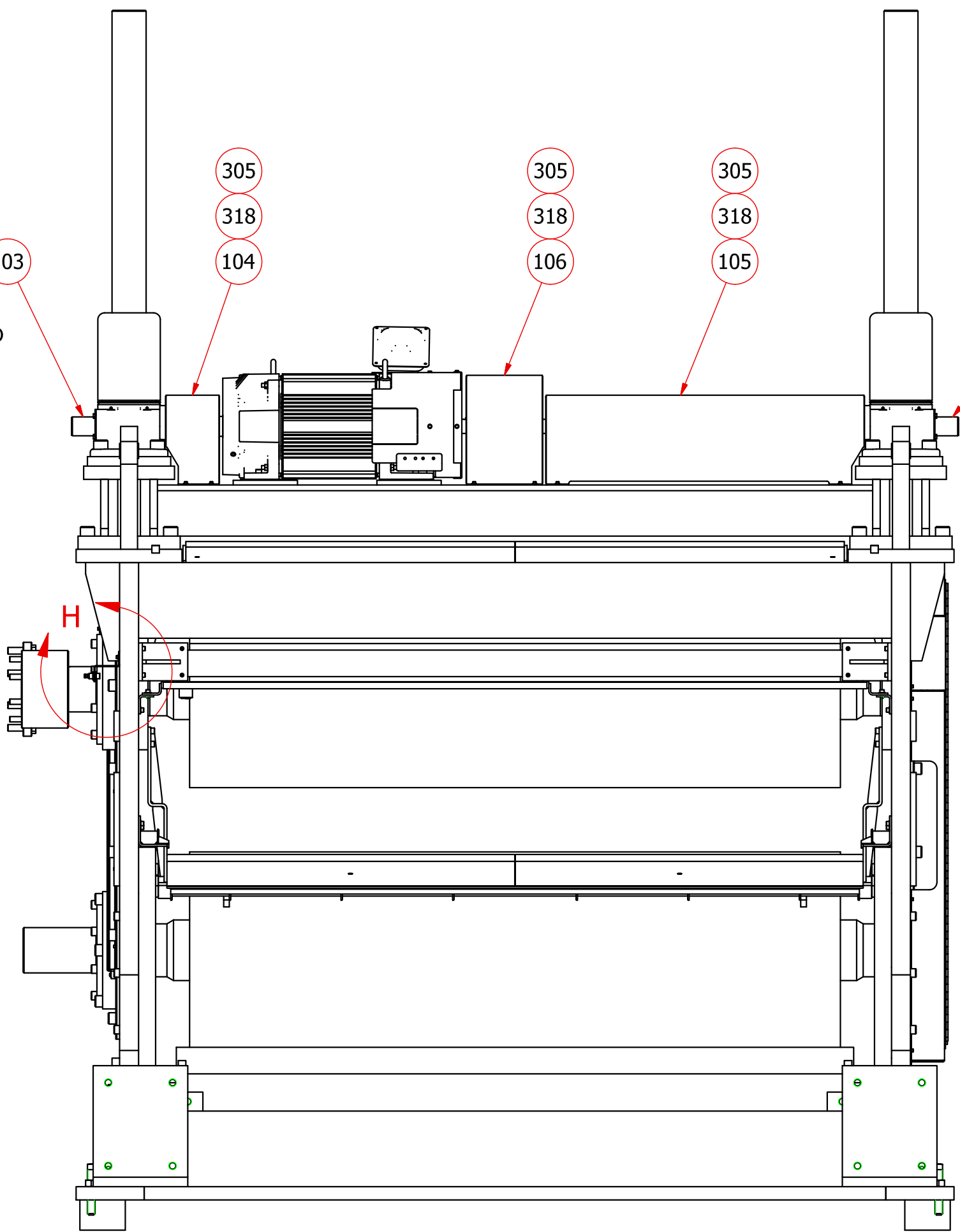
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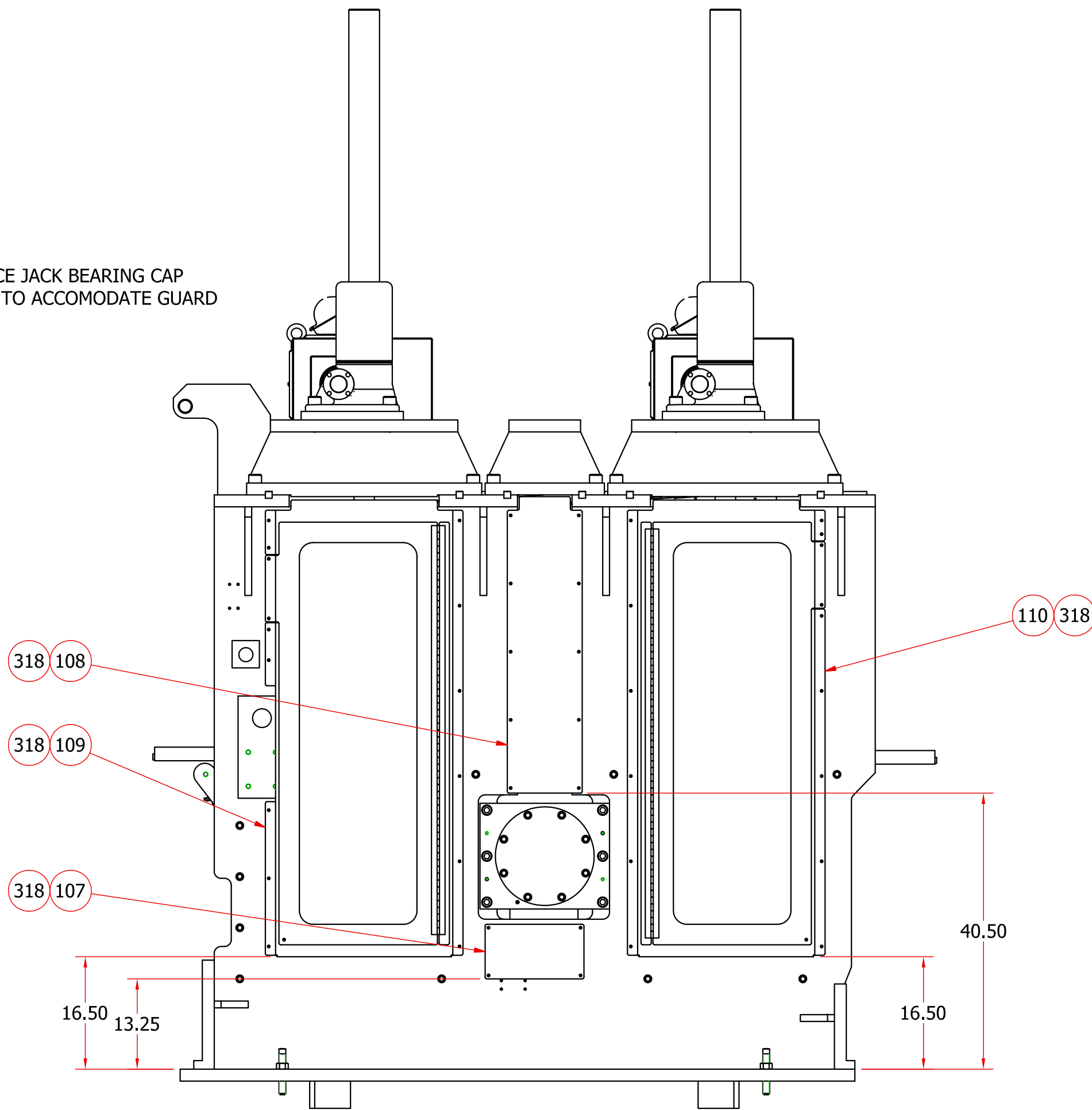
DETAIL H
SCALE 1/4



REPLACE JACK BEARING CAP
BOLTS TO ACCOMODATE GUARD



REPLACE JACK BEARING CAP
BOLTS TO ACCOMODATE GUARD



2014/2015 MICROMILL UPGRADE PROJECT

FOR CONSTRUCTION

Machine Concepts Inc.
2167 St. Rt. 66
P.O. Box 127
Minster, Ohio 45865
(419)628-3498 FAX 2794

TOLERANCES
UNLESS OTHERWISE SPECIFIED:
XXX = ± .03
XXXX = ± .0005
ANGLES: MIN = 25° ST

THIRD-ANGLE PROJECTION

DATE: 1/9/2015
PROJECT NO.: 14-410
DRAWING NUMBER

COMPANY NAME: Machine Concepts Inc.
REFERENCE NO.

DRAWING NO. REFERENCE DRAWINGS

A	2/4/2015	NMCC	RAHR	RELEASED FOR CONSTRUCTION
NO	DATE	BY	CHKD	REVISION DESCRIPTION

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ALCOA MICROMILL
SAN ANTONIO WORKS

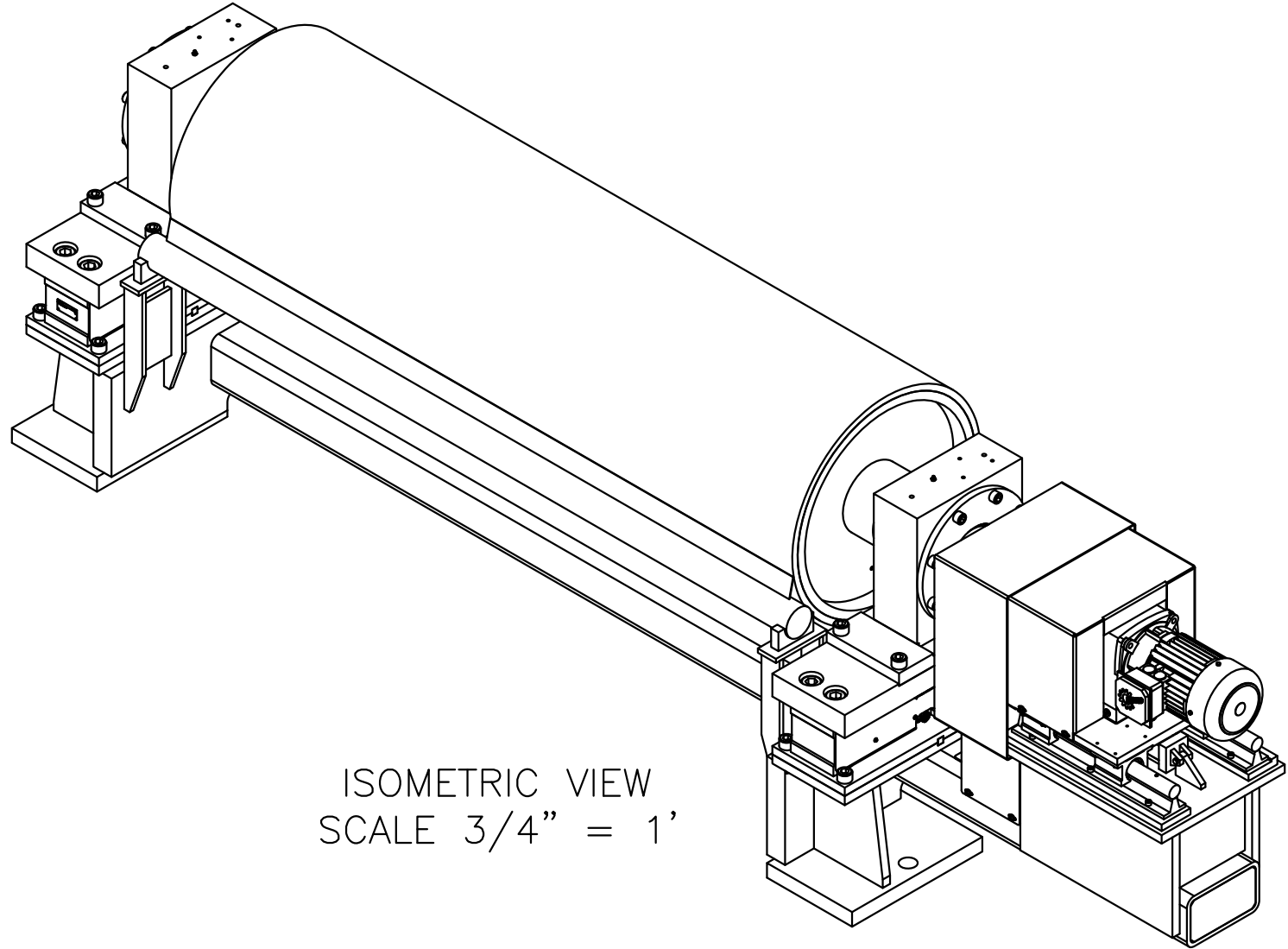
DATE: 1/9/2015
WEIGHT: 41523.9 lbmass
DESIGNED BY: NMCC
DRAWN BY: NMCC
CHECKED BY: RAHR
APPROVED BY: RAHR

TENSION BRIDLE
GENERAL ARRANGEMENT
TENSION BRIDLE BASE ASS'Y
TOLERANCE
DRAWING NUMBER: D-108657-SA

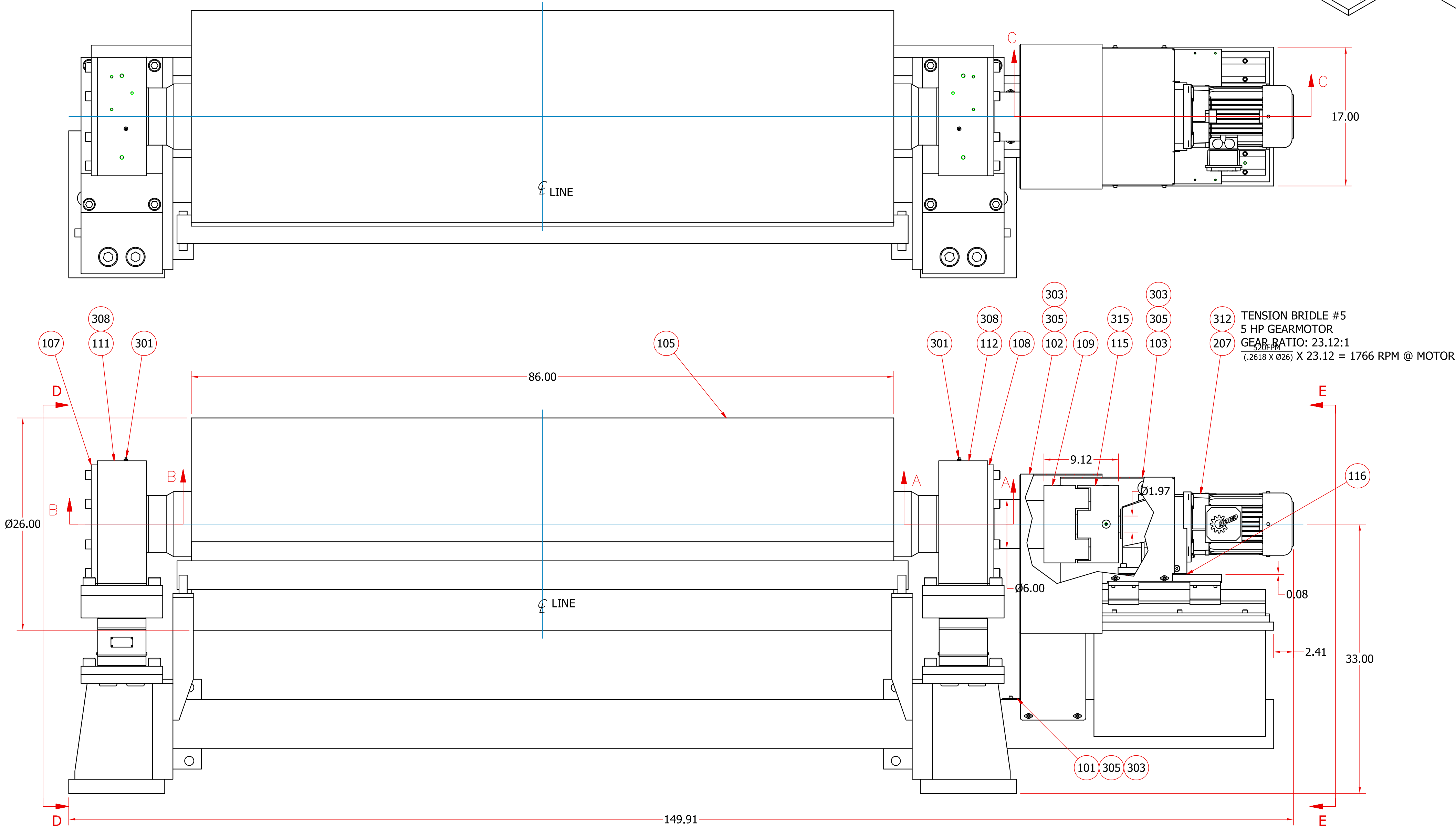
TENSION BRIDLE
GENERAL ARRANGEMENT
TENSION BRIDLE BASE ASS'Y
TOLERANCE
DRAWING NUMBER: D-108657-SA

SHEET 3 OF 3
SCALE 3/4" = 1'

D-108659-SA



ISOMETRIC VIEW
SCALE 3/4" = 1'



Parts List			
ITEM	QTY	PART NUMBER	DESCRIPTION
101	1	D-108587-SA	GUARD
102	1	D-108588-SA	GUARD
103	1	D-108589-SA	GUARD
104	1	D-108668-SA	EXIT ROLL FRAME
105	1	D-108670-SA	BRIDLE ROLL
106	1	D-108673-SA	BEARING SPACER
107	1	D-108674-SA	BEARING RETAINER
108	1	D-108675-SA	BEARING RETAINER
109	1	D-108681-SA	JAW COUPLING
110	1	D-108683-SA	MOTOR MOUNTING PLATE
111	1	D-108689-SA	FLOATING BEARING BLOCK
112	1	D-108690-SA	FIXED BEARING BLOCK
113	2	D-108693-SA	LOAD CELL ADAPTER
114	2	D-108694-SA	BRG. BLOCK ADAPTER
115	1	D-108695-SA	JAW COUPLING
116	2	D-108699-SA	SHIM
117	2	D-108701-SA	LOAD CELL MOUNT
118	2	D-108702-SA	KEY
119	1	D-108738-SA	SPHERICAL ROLLER BEARING
201	2	ABB PFTL201D-100kN	HORIZONTAL LOAD CELL
202	1	CR 60026	SHAFT SEAL
203	2	CR 70054	SHAFT SEAL
204	1	CR 99599	WEAR SLEEVE
205	2	CR 99700	WEAR SLEEVE
206	1	KADANT VERILITE 3.5 - 92.5	ROLL SCRAPPER
207	1	NORD SK32-100LA-4CUS	5HP GEARMOTOR
208	2	PACIFIC BEARING NIPDL24-21 Y=2.50	Ø1.50" SHAFTING - 21.00" LG Y=2.50"
209	2	PACIFIC BEARING PN24	OPEN PILLOW BLOCK BEARING
210	2	PACIFIC BEARING PN24-C	OPEN PILLOW BLOCK BEARING
211	2	PACIFIC BEARING SR24PD-21 Y=2.50	Ø1.50" SUPPORT RAIL - 21.00" LG Y=2.50"
212	1	PARKER 2.50BB2ALUS14A4.000	PNEUMATIC CYLINDER; PORT POS. 2
213	1	PARKER 50940	PARKER FEMALE ROD CLEVIS
214	1	PARKER 68368	PARKER PIVOT PIN
215	1	ROTOR CLIP HO-600	INTERNAL RETAINING RING
216	1	SKF 22232 CC-W33	SPHERICAL ROLLER BEARING
217	2	SYMMCO SS-1620-10	BRONZE SLEEVE BEARING
301	2	1/8 NPT ST Zerk	GREASE ZERK
302	2	AN-32	BEARING LOCKNUT
303	10	FW 1/4	FLAT WASHER
304	16	SHCS 1-8 x 2.00 LG	SOCKET HEAD CAP SCREW
305	10	SHCS 1/4-20 x 0.50 LG	SOCKET HEAD CAP SCREW
306	16	SHCS 1/4-20 x 0.75 LG	SOCKET HEAD CAP SCREW
307	16	SHCS 3/4-10 x 1.50 LG	SOCKET HEAD CAP SCREW
308	8	SHCS 3/4-10 x 1.75 LG	SOCKET HEAD CAP SCREW
309	16	SHCS 3/8-16 x 1.00 LG	SOCKET HEAD CAP SCREW
310	6	SHCS 3/8-16 x 2.00 LG	SOCKET HEAD CAP SCREW
311	4	SHCS 5/16-18 x 1.00 LG	SOCKET HEAD CAP SCREW
312	4	SHCS M12-1.75 x 40 LG	METRIC SOCKET HEAD CAP SCREW
313	16	SHCS M36-4 x 60 LG	METRIC SOCKET HEAD CAP SCREW
314	2	SHSS 1-8 x 1.00 LG	SOCKET HEAD SET SCREW - CUP POINT
315	2	SHSS 3/8-16 x 0.75 LG	SOCKET HEAD SET SCREW - CUP POINT
316	2	W-32	BEARING LOCKWASHER

USE HIGH TEMP GREASE
DURALUBE SAC-1.5

2014/2015 MICROMILL UPGRADE PROJECT

FOR CONSTRUCTION

Machine Concepts Inc.
2167 St. Rt. 66
P.O. Box 127
Minster, Ohio 45865
(419)628-3498 FAX 2794

TOLERANCES
UNLESS OTHERWISE SPECIFIED
.XX = ± .03
.XXX = ± .005
.XXXX = ± .0005
ANGLES: XX.X = ± 0.5°

THIRD ANGLE PROJECTION

DATE 1/8/2015
PROJECT NO. 14-410
DRAWING NUMBER

COMPANY NAME Machine Concepts Inc.
REFERENCE NO.

DRAWING NO. REFERENCE DRAWINGS

A	2/4/2015	NMCC	RAHR	RELEASED FOR CONSTRUCTION
NO	DATE	BY	CKD	REVISION DESCRIPTION

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ALCOA MICROMILL
SAN ANTONIO WORKS

DATE 1/8/2015
WEIGHT 8283.4 lbmoss
DESIGNED BY NMCC
DRAWN BY NMCC
CHECKED BY RAHR
APPROVED BY RAHR

TENISON BRIDLE
GENERAL ARRANGEMENT
EXIT ROLL ASSEMBLY

AREA TOLERANCE
DRAWING NUMBER D-108659-SA

SHEET 1 of 2
SCALE 1/8