

17455-050 - 305 STANDARD PANEL ASSY

<u>Item Number</u>	<u>Detail</u>	<u>Description</u>	<u>Qty</u>	<u>UM</u>
02951-6	1	DIN MOUNT RAIL	70.00	INCH
02641-2	2	RHMS 8-32 X 1/4	3.00	EACH
02364-40	3	END ANCHOR 55A DIN	8.00	EACH
09979-60	4	MINI RELAY 24VDC SPDT WITH BASE,	6.00	EACH
08729-104	5	DOUBLE STACKED DIN RAIL TERMINAL	34.00	EACH
09979-62	6	MINI RELAY 24VDC DPDT WITH BASE	1.00	EACH
08729-105	7	DIN RAIL MOUNTED TERMINAL 50AMP	4.00	EACH
05489-29	8	WIRE DUCT 1" X 3"	6.00	FEET
07620-101	9	FAN	2.00	EACH
08969	10	MOUNT FAN	2.00	EACH
17460-002	11	MODICON DISCREET EPIC 16 INPUT AND	1.00	EACH
02364-26	12	TERMINAL STAND OFF	3.00	EACH
17500-018	13	CONNECTOR STRIP	4.00	EACH
08660-9	15	MOMENTUM 7CM IOBUS CABLE	1.00	EACH
17460-003	16	MODICON 32 INPUT DISCREET EPIC	1.00	EACH
17460-080	18	305 PROCESSOR I2T SOFTWARE	1.00	EACH
17500-035	23	DISCONNECT SWITCH WHICH IS	1.00	EACH
17500-036	25	DISCONNECT SWITCH SHAFT AB PART	1.00	EACH
08729-106	28	DIN RAIL MOUNTED GROUND TERMINAL	3.00	EACH
08729-107	30	DOUBLESTACK TERM END PLATE	3.00	EACH
06873-20	31	FUSE BUSS LP-CC 5 AMP	1.00	EACH
07631-17	32	15AMP TIME DELAY FUSE	2.00	EACH
02846-29	33	RELAY FORCE GUIDED 24VDC 40A	1.00	EACH
09979-61	34	MINI RELAY 120VAC SPDT W/BASE, ONE	1.00	EACH
08729-125	35	FUSEHOLDER 5X20MM DC	5.00	EACH
07632-101	36	FUSE 1.6 AMP 5X20MM 250 VOLT	1.00	EACH
40431	37	FUSE 1 AMP TIME DELAY 5X20MM	2.00	EACH
07632-102	38	FUSE 4 AMP SIZE 5X20MM, 250 VOLT	2.00	EACH
08729-109	39	3 POSITION JUMPER FOR WDK 2.5	2.00	EACH
08729-108	40	2 POSITION JUMPER FOR WDK 2.5	5.00	EACH
02274-150	41	POWER SUPPLY 24VDC 5AMP, DIN RAIL	1.00	EACH
08729-111	43	END PLATE FOR IEC WEIDMULLER FUSE	1.00	EACH
03051-39	45	***GALVANIZED HOFFMAN PANEL 30 X 24	1.00	EACH
08729-112	46	TERMINAL JUMPER FOR WDU-6	2.00	EACH
09979-64	47	MINI RELAY JUMPER STICK FOR MINI	1.00	EACH
11360-53	48	QUICK DISCONNECT RECEP. 1-16	1.00	EACH
02641-3	57	RHMS 8-32 X 1/2	36.00	EACH
11360-16	58	DISCONNECT CODING PIN	2.00	EACH
02879-17	60	FLATWASHER #8	29.00	EACH
08729-126	64	DOUBLE STACK DIODE TERMINAL BLOCKS	7.00	EACH
16826-02	69	MOMENTUM I/O BUS CABLE 24" LONG TLG	1.00	EACH
17500-011	79	FERRULE 20AWG 2 WIRE-ORANGE	25.00	EACH
17500-000	80	FERRULE 22AWG 500/PK	25.00	EACH
17500-001	81	FERRULE 20AWG (500/PK)	350.00	EACH
17500-007	85	MOMENTUM TERMINATION PLUG	1.00	EACH
17500-008	86	RJ45 "T" CONNECTOR	1.00	EACH
06664-81	98	30A MOTOR CONTROLLER 120 VAC	2.00	EACH
16806-02	196	POWER CORD 90^	2.00	EACH
02364-48	202	FUSE HOLDER - 1 POLE 30 AMP MAX	3.00	EACH
17595-001	204	305 2 AXIS CONTROL CABLE	1.00	EACH
08729-132	206	6 POSITION JUMPER FOR WDK 2.5	2.00	EACH
08729-133	207	7 POSITION JUMPER FOR WDK 2.5	1.00	EACH
17500-039	213	CIMREX AND CABLE LABELS	1.00	EACH

RIMROCK STANDARD 305 LADLE DRAWING PACKAGE

LEGEND

3440

WIRE INDEX
RUNG NUMBER
SHEET NUMBER

—<< DESIGNATES A MALE/FEMALE CONNECTION

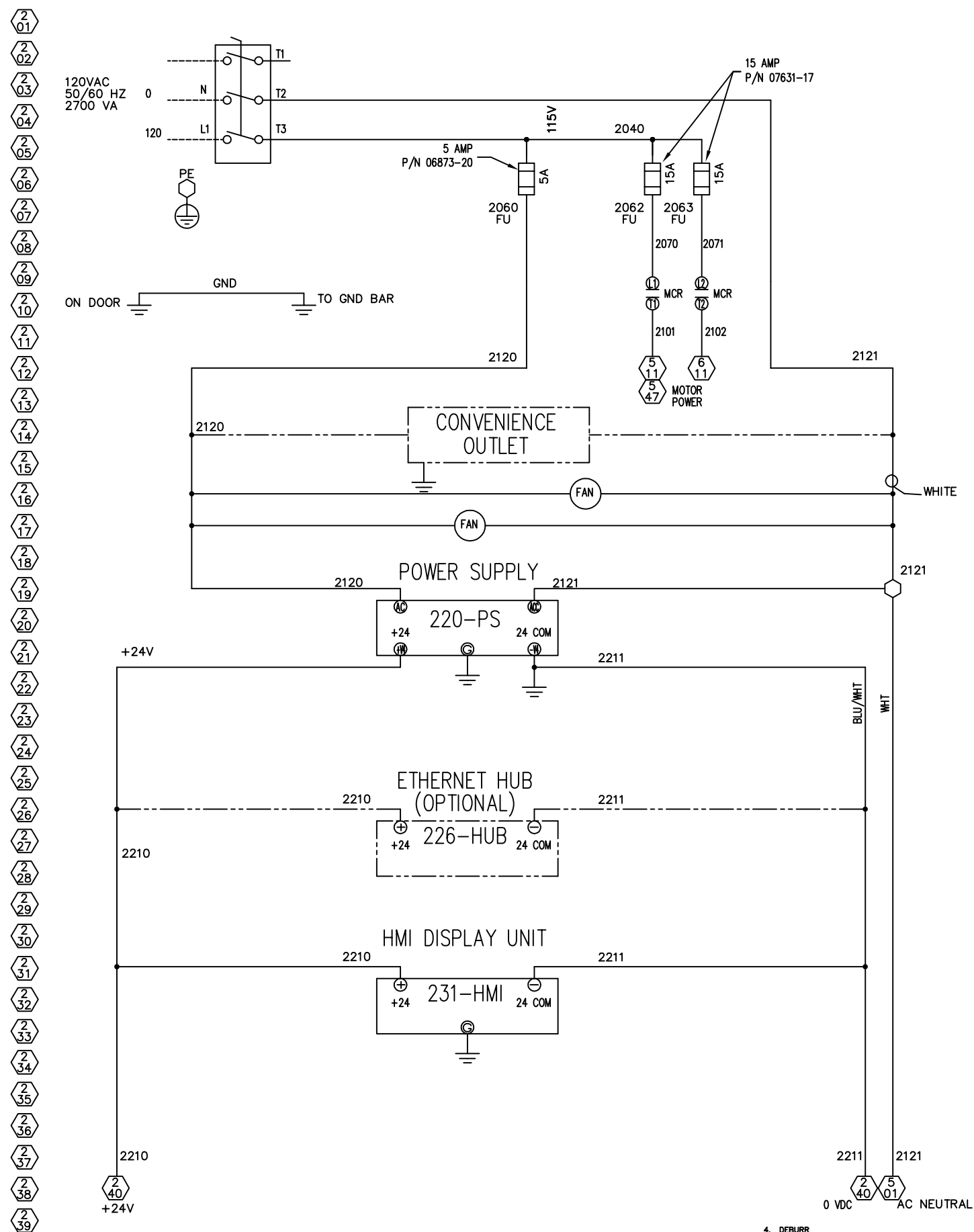
 DESIGNATES A DIODE TERMINAL
BLOCK: 2 DIODES EMBEDDED IN BLOCK

DESIGNATES TERMINAL

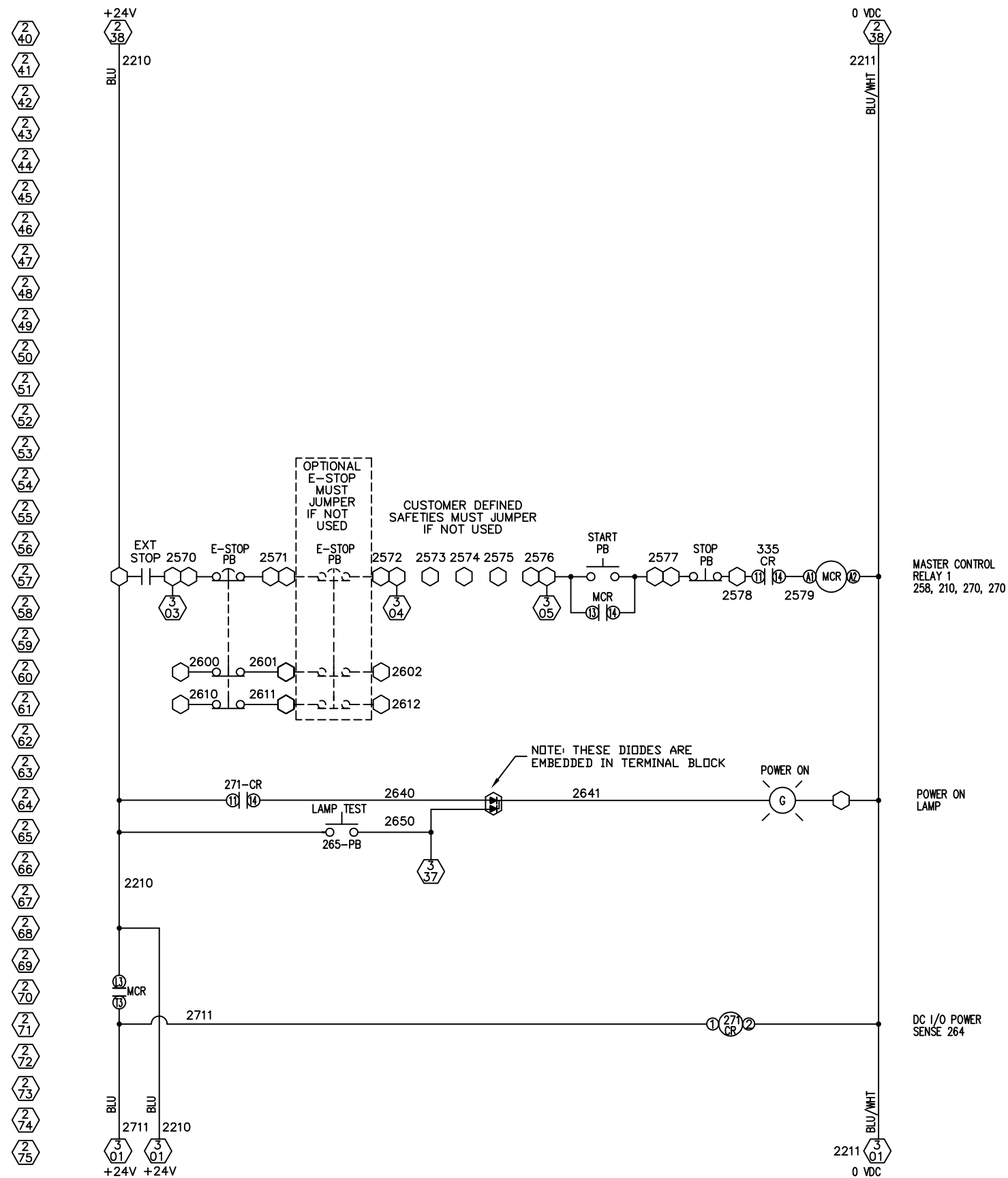
SHEET 1	THIS PAGE
SHEET 2	MAIN CONTROLS
SHEET 3	SYSTEM I/O
SHEET 4	OPTIONS
SHEET 5	MOTOR DRIVE AND INTERLOCKS
SHEET 6	MOTOR DRIVE AND INTERLOCKS
SHEET 7	PANEL WIRING, RIGHT SIDE
SHEET 8	PANEL WIRING, LEFT SIDE
SHEET 9	PANEL BOM
SHEET 10	FRONT PANEL WIRING AND BOM

4. DEBURR
3. SURFACE FINISH 125
2. ALL THREADS CLASS 2A OR 2B
1. PARTS TO CONFORM TO RIMROCK CORP. ENGR. & MFG. STANDARDS
NOTES (UNLESS OTHERWISE SPECIFIED)

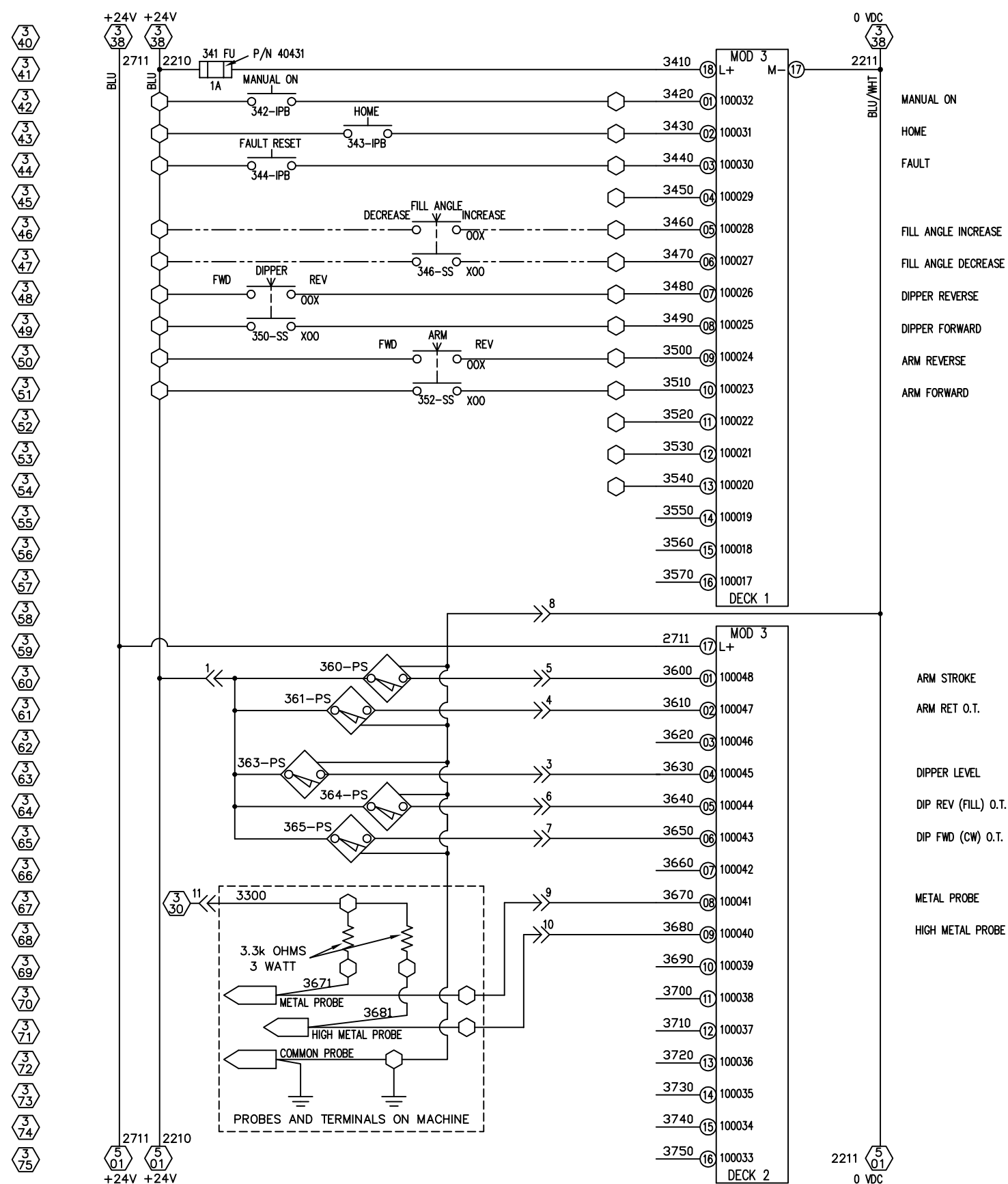
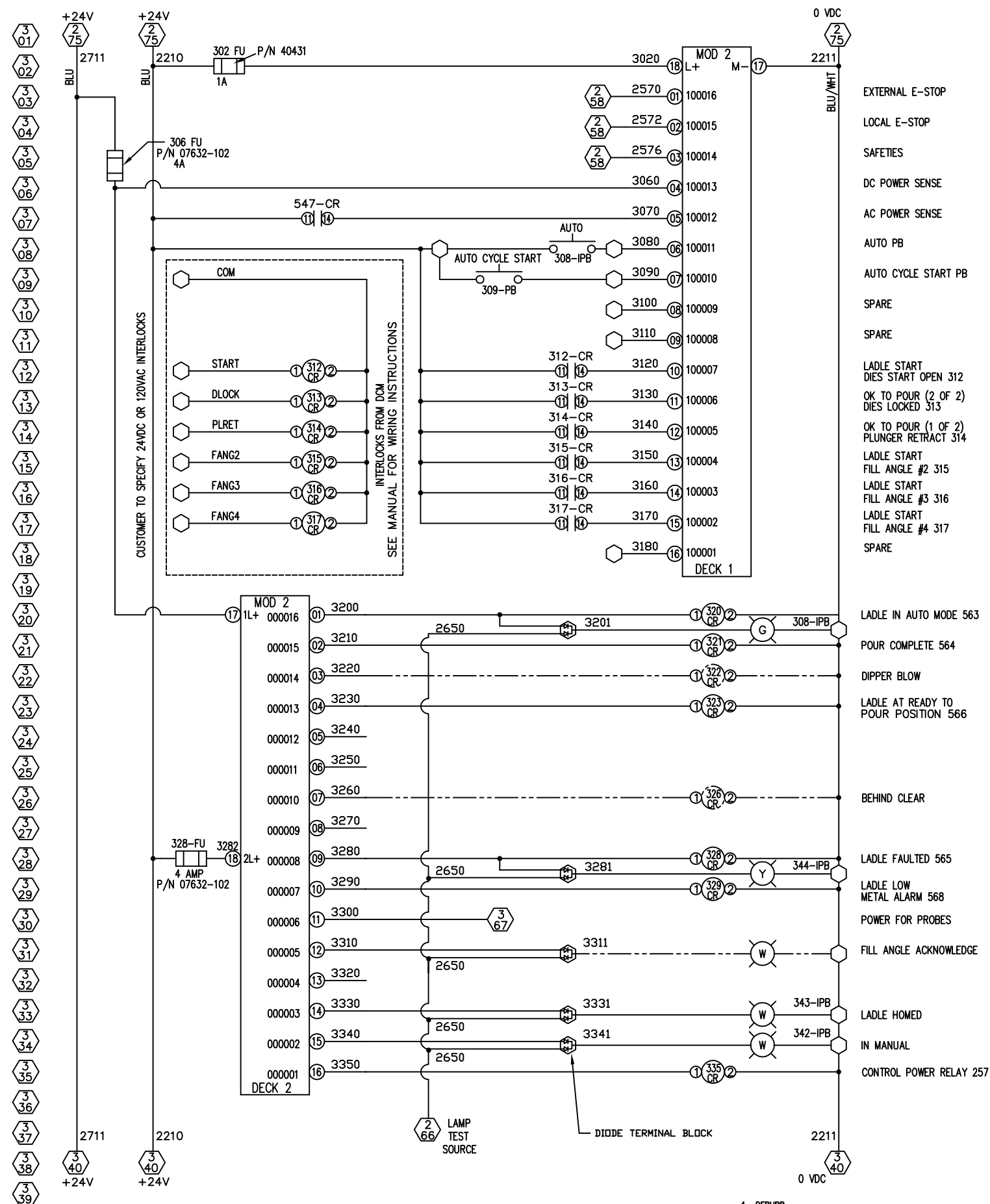
						000	3.14 11	ADDED OPTIONAL RELAYS	E	DS		MAT'L:	DR	DW	DATE	6.20.01	SCALE	FULL	PIG	
						000	4.13 07	CHANGED INTERLOCK RELAYS TO CUSTOMER OPTION OF 24VDC OR 120VAC	D	MK		 RIMROCK CORPORATION 1700 JETWAY BLVD. COLUMBUS, OHIO 43219 * PHONE: 614-471-5928 FAX: 614-471-1073 * A Registered Trademark of Rimrock Corporation, Columbus, Ohio U.S.A.	CR	DW	DATE	11/22/2015	SHEET	1	OF	10
000	8.21	ADDED FUSE TO INDIVIDUALLY FUSE BOTH SERVO DRIVES	H	DS		000	2.21 07	UPDATED BALLOON NUMBERS	C	MK			DRAWING NO.	306D17455-050				REV	H	
052	11.20	CHANGED BOX CUTOFF FOR EPIC CONNECTOR AND REMOVED ADAPTER	G	DS		0091	12.18 06	ADDED RELAYS FOR INTERLOCKS AND CHANGED HMI TO EXTER K60	B	MK			DRAWING NAME	ASSEMBLY-CONTROL BOX						
000	4.20	CHANGED TO BASE INPUT FUSE FROM .315A TO 1A 10EY LADLE.	F	DS		0248	8.8 03	ADDED ELECTRICAL TAG AND STICKER	A	MK			TOLERANCES UNLESS OTHERWISE SPECIFIED				FOR STANDARD 305 LADLE			
ER	DATE	REMARKS	LET	DR	CK	ER	DATE	REMARKS	LET	DR	CK	2-DIGIT DECIMALS= ±.010 FRACTIONS= ±1/84 3-DIGIT DECIMALS= ±.005 ANGLES= ±1/2 4-DIGIT DECIMALS= ±.0005				THIS DRAWING IS THE PROPERTY OF RIMROCK CORP. AND IS FOR THE CONVEYANCE OF THE CUSTOMER ONLY.				



4. DEBURR
3. SURFACE FINISH 125
2. ALL THREADS CLASS 2A OR 2B
1. PARTS TO CONFORM TO RIMROCK CORP. ENGR. & MFG. STANDARDS
NOTES (UNLESS OTHERWISE SPECIFIED)



								000	3.14 11	ADDED OPTIONAL RELAYS	E	DS	MAT'L: SEE B.O.M.				DR	MAH	DATE	7/10/02	SCALE	NTS	FIG		
								000	4.13 07	CHANGED INTERLOCK RELAYS TO CUSTOMER OPTION OF 24VDC OR 120VAC	D	MK	 * RIMROCK CORPORATION 1700 RIMROCK ROAD COLUMBUS, OHIO 43219 * PHONE: 614-471-9228 * FAX: 614-471-1073 * A Registered Trademark of Rimrock Corporation, Columbus, Ohio U.S.A.				DRAWING NO.	11/22/2013				SHEET	2 OF 10		REV
000	8.21 13	ADDED FUSE TO INDIVIDUALLY FUSE BOTH SERVO DRIVES	H	DS				000	2.21 07	UPDATED BALLOON NUMBERS	C	MK					DRAWING NO.	305D17455-050				H			
052	11.20 12	CHANGED BOX CUTOFF FOR EPIC CONNECTOR AND REMOVED ADAPTER	G	DS				001	12.18 06	ADDED RELAYS FOR INTERLOCKS AND CHANGED HIM TO EXTER K60	B	MK	TOLERANCES UNLESS OTHERWISE SPECIFIED 2-DIGIT DECIMALS = ±.010 FRACTIONS = ±1/64 3-DIGIT DECIMALS = ±.005 DECIMALS = ±1/2 3-DIGIT DECIMALS = ±.005 DECIMALS = ±1/2				DRAWING NAME	MAIN CONTROLS							
000	4.20 11	CHANGED IO BASE INPUT FUSE FROM .315A TO 1 TIME LADY.	F	DS				0248	8.8 03	ADDED ELECTRICAL TAG AND STICKER	A	MK					PRELIMINARY								
ER	DATE	REMARKS	REVISIONS	LET	DR	OK	ER	DATE	REMARKS	REVISIONS	LET	DR	OK	FOR STANDARD 305 LADLE THIS DRAWING IS THE PROPERTY OF RIMROCK CORP. AND IS FOR THE EXCLUSIVE USE OF THE CUSTOMER. IT IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT PERMISSION IN WRITING FROM RIMROCK CORPORATION.											



						000	3.14 11	ADDED OPTIONAL RELAYS	E	DS	MAT'L: SEE B.O.M.				DR	MAH	DATE	7/10/02	SCALE	NTS	PIC		
							4.13 07	CHANGED INTERLOCK RELAYS TO CUSTOMER OPTION OF 24VDC OR 120VAC	D	WK	 * RIMROCK CORPORATION 1700 RIMROCK ROAD COLUMBUS, OHIO 43219 * PHONE: 614-471-0928 FAX: 614-471-1073 * A Registered Trademark of Rimrock Corporation, Columbus, Ohio U.S.A.				DR	CK	DATE	11/22/2015	SHEET	3	OF	10	REV
							2.21 07	UPDATED BALLON NUMAC	C	MK					DRAWING NO.	306D17455-050				H			
000	8.21 13	ADDED FUSE TO INDIVIDUALLY FUSE BOTH SERVO DRIVES	H	DS			2.21 07	UPDATED BALLON NUMAC	C	MK	* PHONE: 614-471-0928 FAX: 614-471-1073 * A Registered Trademark of Rimrock Corporation, Columbus, Ohio U.S.A.				DRAWING NAME	SINGLE MACHINE CONTROL SYSTEM							
052	11.20 12	CHANGED BOX CUTOFF FOR EPIC CONNECTOR AND REMOVED ADAPTER	G	DS	0091	12.18 06	ADDED RELAYS FOR INTERLOCKS AND CHANGED HMI TO EXTER K60	B	MK	TOLERANCES UNLESS OTHERWISE SPECIFIED 2-DIGIT DECIMALS= ±.010 3-DIGIT DECIMALS= ±.005 FRACTIONS= 1/64 ANGLES= ±1/2					LADLE								
000	4.20 11	CHANGED IO BASE INPUT FUSE FROM .315A TO 1A TIME DELAY.	F	DS	0248	8.8 03	ADDED ELECTRICAL TAG AND STICKER	A	MK	TOLERANCES UNLESS OTHERWISE SPECIFIED 2-DIGIT DECIMALS= ±.010 3-DIGIT DECIMALS= ±.005 4-DIGIT DECIMALS= ±.0005 FRACTIONS= 1/64 ANGLES= ±1/2				FOR	THIS DRAWING IS THE PROPERTY OF RIMROCK CORP. AND IS FOR THE PERSONS USE ONLY. NO PARTS OF THIS DRAWING ARE TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM.								
ER	DATE	REMARKS	REVISED BY	LET	DR	CK	ER	DATE	REMARKS					REVISED BY	LET	DR	CK						

THIS PAGE INTENTIONALLY LEFT BLANK

4. DEBURR
3. SURFACE FINISH 125
2. ALL THREADS CLASS 2A OR 2B
1. PARTS TO CONFORM TO RIMROCK CORP. ENGR. & MFG. STANDARDS
NOTES (UNLESS OTHERWISE SPECIFIED)

					000	3.14 11	ADDED OPTIONAL RELAYS	E	DS		MAT'L: SEE B.O.M.	DR	MAH	DATE	11/7/01	SCALE		PIC					
					000	4.13 07	CHANGED INTERLOCK RELAYS TO CUSTOMER OPTION OF 24VDC OR 120VAC	D	MK			CK		DATE		ER		SHEET	4	OF	10		
000	8.21 13	ADDED FUSE TO INDIVIDUALLY FUSE BOTH SERVO DRIVES	H	DS	000	2.21 07	UPDATED BALLOON NUMBERS	C	MK														
052	11.20 12	CHANGED BOX OUTPUT FOR EPIC CONNECTOR AND REMOVED ADAPTER	G	DS	0091	12.18 06	ADDED RELAYS FOR INTERLOCKS AND CHANGED HMI TO EXTER K60	B	MK														
000	4.20 11	CHANGED IO BASE INPUT FUSE FROM .315A TO 1A TIME DELAY.	F	DS	0248	8.8 03	ADDED ELECTRICAL TAG AND STICKER	A	MK														
ER	DATE	REMARKS	LET	DR	CK	ER	DATE	REMARKS	LET	DR	CK												
REVISIONS												REVISIONS											



* RIMROCK CORPORATION
1700 RIMROCK ROAD
COLUMBUS, OHIO 43219

* PHONE: 614-471-5926
* A Registered Trademark of Rimrock Corporation, Columbus, Ohio U.S.A.

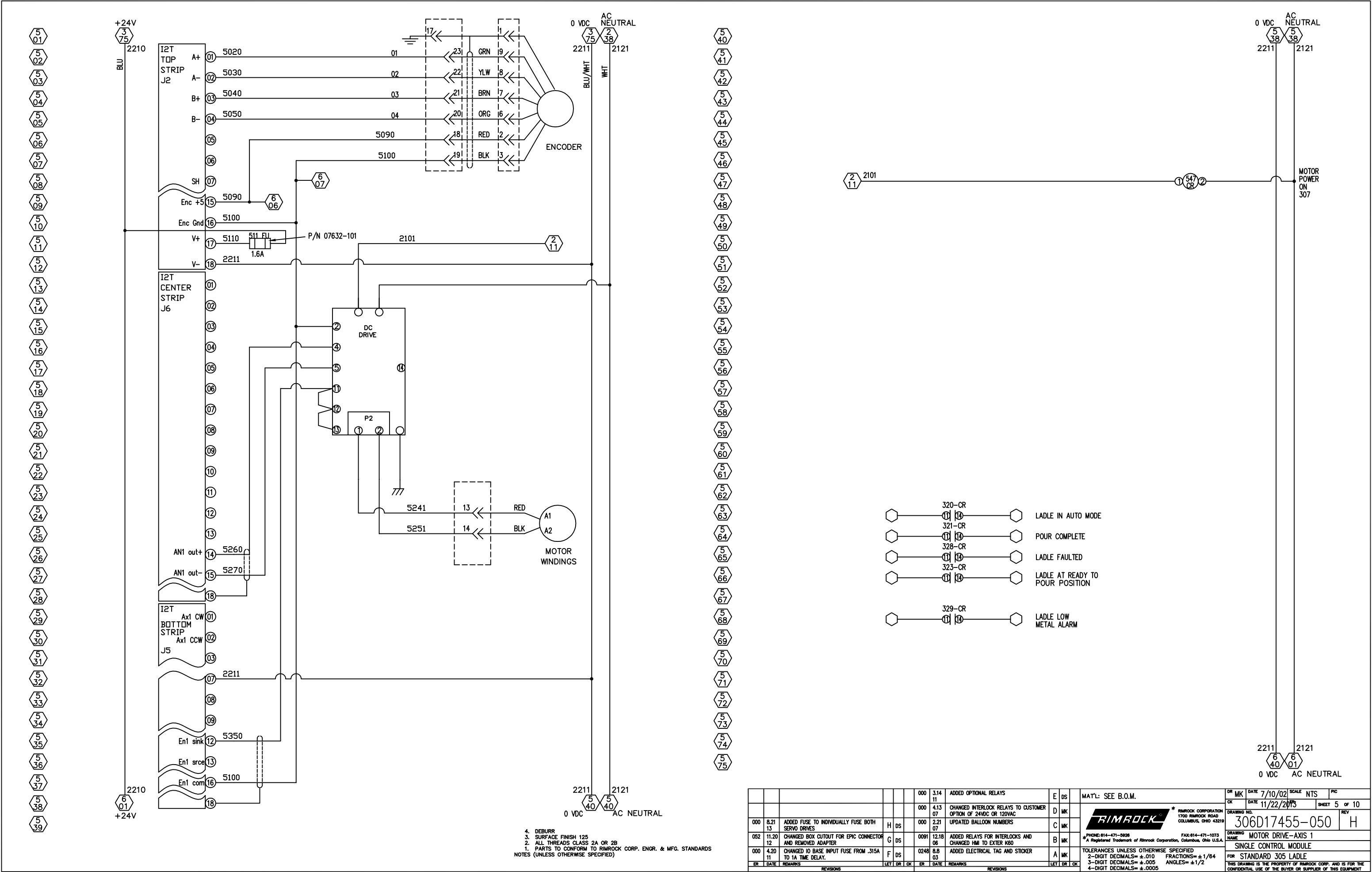
FAX: 614-471-1073

TOLERANCES UNLESS OTHERWISE SPECIFIED
2-DIGIT DECIMALS= ±.010 FRACTIONS= ± 1/64
3-DIGIT DECIMALS= ±.005 ANGLES= ± 1/2
4-DIGIT DECIMALS= ±.0005

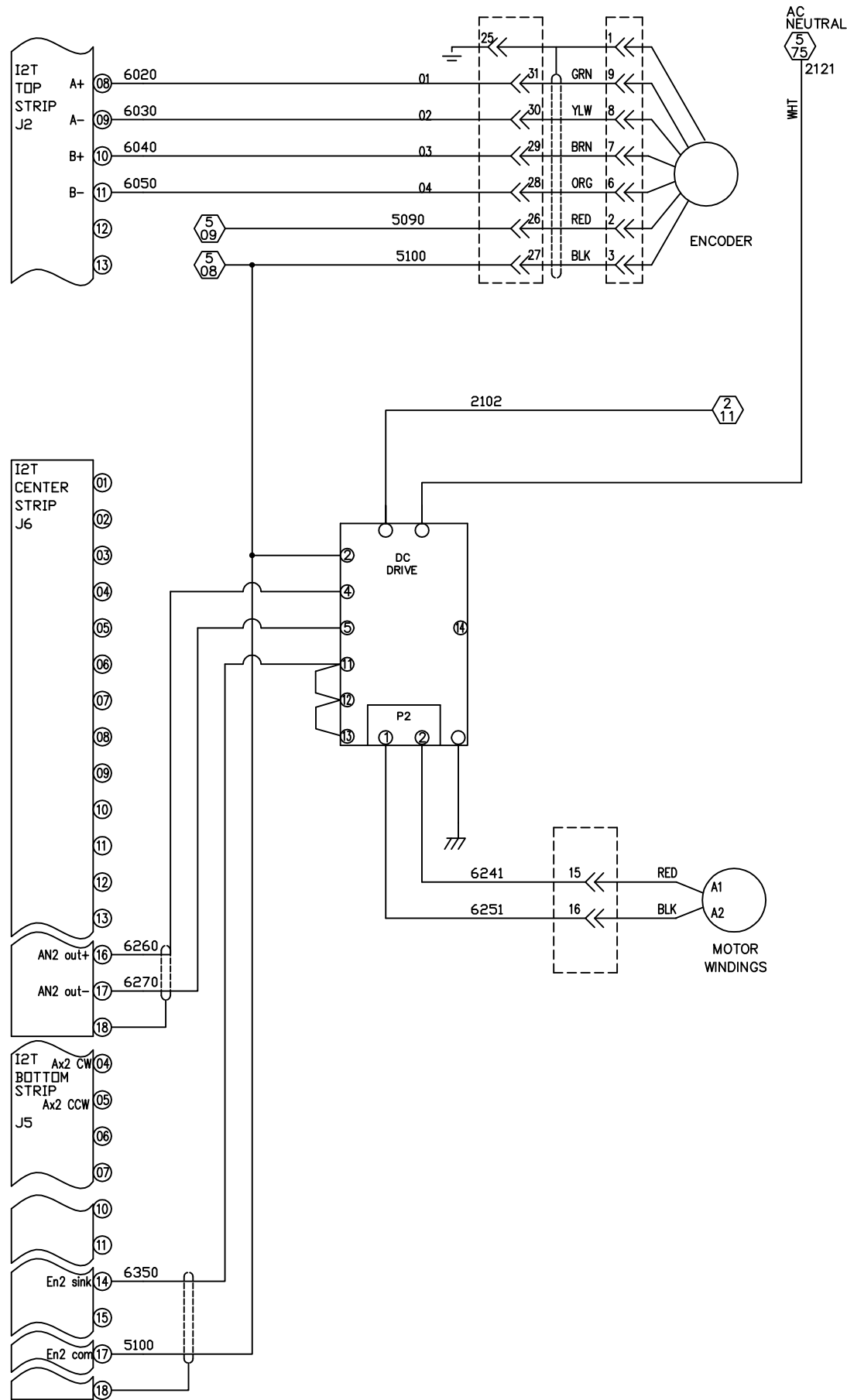
DRIVING NO.
306D17455-050
REV
H

DRAWING NAME
ASSEMBLY-CONTROL BOX
EPIC CONTROLS
FOR STATNDARD 305 LADLE

THIS DRAWING IS THE PROPERTY OF RIMROCK CORP. AND IS FOR THE
CONFIDENTIAL USE OF THE BUYER OR SUPPLIER OF THIS EQUIPMENT



6 01
6 02
6 03
6 04
6 05
6 06
6 07
6 08
6 09
6 10
6 11
6 12
6 13
6 14
6 15
6 16
6 17
6 18
6 19
6 20
6 21
6 22
6 23
6 24
6 25
6 26
6 27
6 28
6 29
6 30
6 31
6 32
6 33
6 34
6 35
6 36
6 37
6 38
6 39



6 40
6 41
6 42
6 43
6 44
6 45
6 46
6 47
6 48
6 49
6 50
6 51
6 52
6 53
6 54
6 55
6 56
6 57
6 58
6 59
6 60
6 61
6 62
6 63
6 64
6 65
6 66
6 67
6 68
6 69
6 70
6 71
6 72
6 73
6 74
6 75

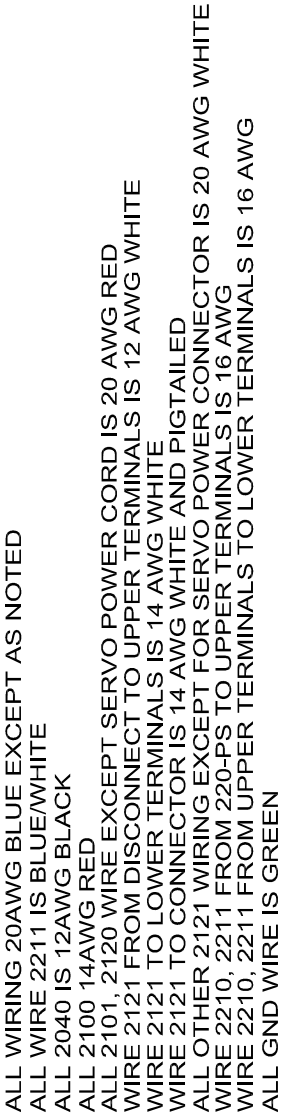
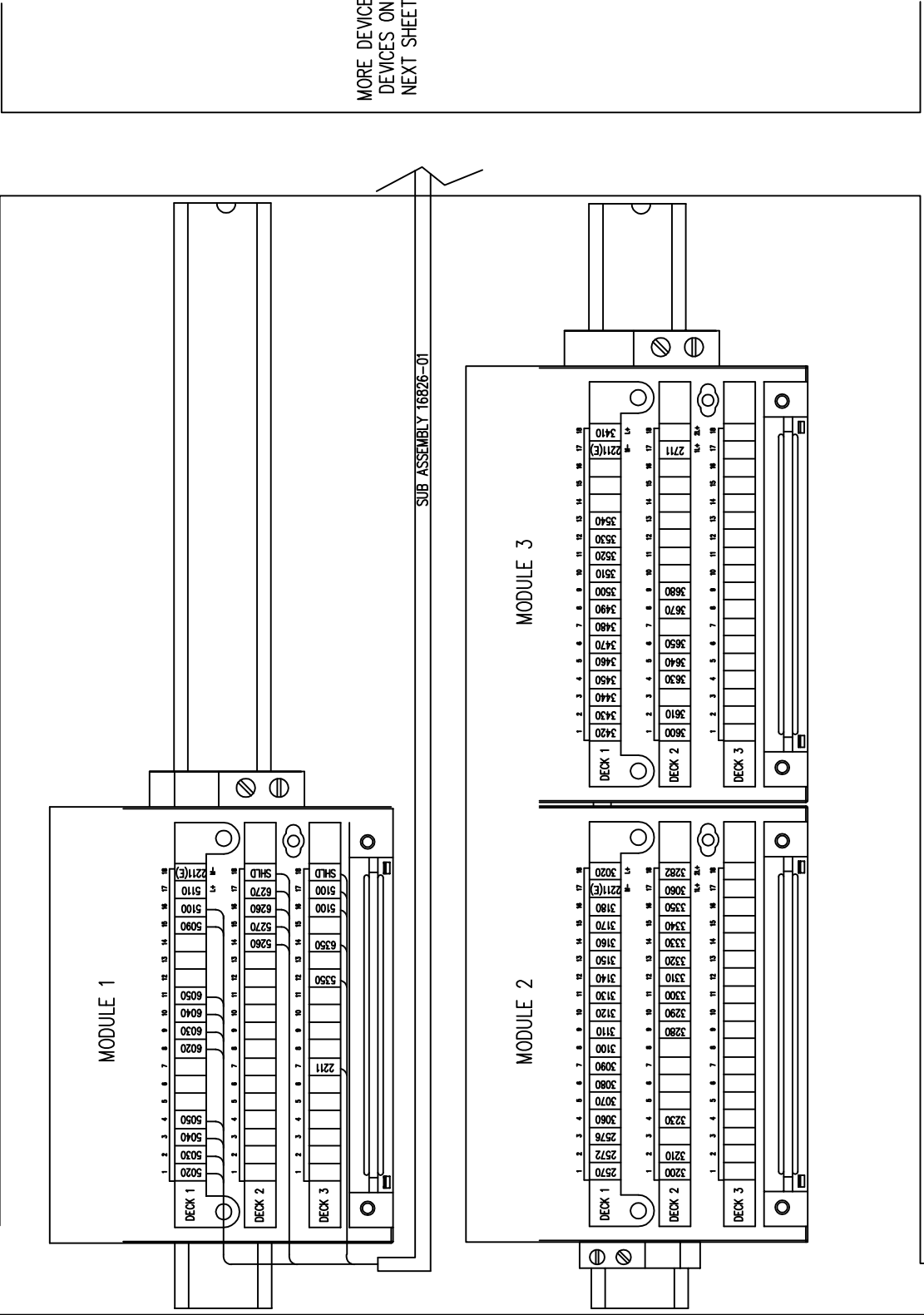
4. DEBURR
3. SURFACE FINISH 125
2. ALL THREADS CLASS 2A OR 2B
1. PARTS TO CONFORM TO RIMROCK CORP. ENGR. & MFG. STANDARDS
NOTES (UNLESS OTHERWISE SPECIFIED)

					000	3.14 11	ADDED OPTIONAL RELAYS	E	DS	MAT'L: SEE B.O.M.	 * RIMROCK CORPORATION 1700 RIMROCK ROAD COLUMBUS, OHIO 43219	DR	MK	DATE	7/10/02	SCALE	NTS	PIC
					000	4.13 07	CHANGED INTERLOCK RELAYS TO CUSTOMER OPTION OF 24VDC OR 120VAC	D	MK			CK	DATE	11/22/2013	SHEET	6	OF	10
					000	2.21 07	UPDATED BALLOON NUMBERS	C	MK			DRAWING NO.	306D17455-050	REV	H			
000	8.21 13	ADDED FUSE TO INDIVIDUALLY FUSE BOTH SERVO DRIVES	H	DS	000	12.18 06	ADDED RELAYS FOR INTERLOCKS AND CHANGED HMI TO EXTER K60	B	MK	* PHONE: 614-471-5828 FAX: 614-471-1073 * A Registered Trademark of Rimrock Corporation, Columbus, Ohio U.S.A.	DRAWING NAME	MOTOR DRIVE-AXIS 2						
052	11.20 12	CHANGED BOX OUTPUT FOR EPIC CONNECTOR AND REMOVED ADAPTER	G	DS	0091	8.8 03	ADDED ELECTRICAL TAG AND STICKER	A	MK	TOLERANCES UNLESS OTHERWISE SPECIFIED 2-DIGIT DECIMALS= ±.010 FRACTIONS= ± 1/64 3-DIGIT DECIMALS= ±.005 ANGLES= ± 1/2 4-DIGIT DECIMALS= ±.0005	FOR	STANDARD 305 LADLE						
000	4.20 11	CHANGED IO BASE INPUT FUSE FROM .315A TO 1A TIME DELAY.	F	DS	0248						THIS DRAWING IS THE PROPERTY OF RIMROCK CORP. AND IS FOR THE CONFIDENTIAL USE OF THE BUYER OR SUPPLIER OF THIS EQUIPMENT							
ER	DATE	REMARKS	LET	DR	CK	ER	DATE	REMARKS	LET	DR	CK							
REVISIONS					REVISIONS													

WIRING LEDGEND

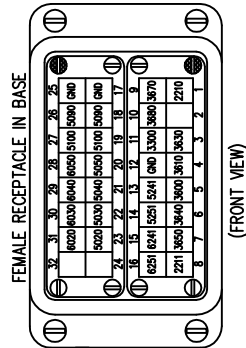
4. DEBURR
3. SURFACE FINISH 125
2. ALL THREADS CLASS 2A OR 2B
1. PARTS TO CONFORM TO RIMROCK CORP. ENGR. & MFG. STANDARDS
NOTES (UNLESS OTHERWISE SPECIFIED)

LEFT SIDE BACK PANEL WIRING



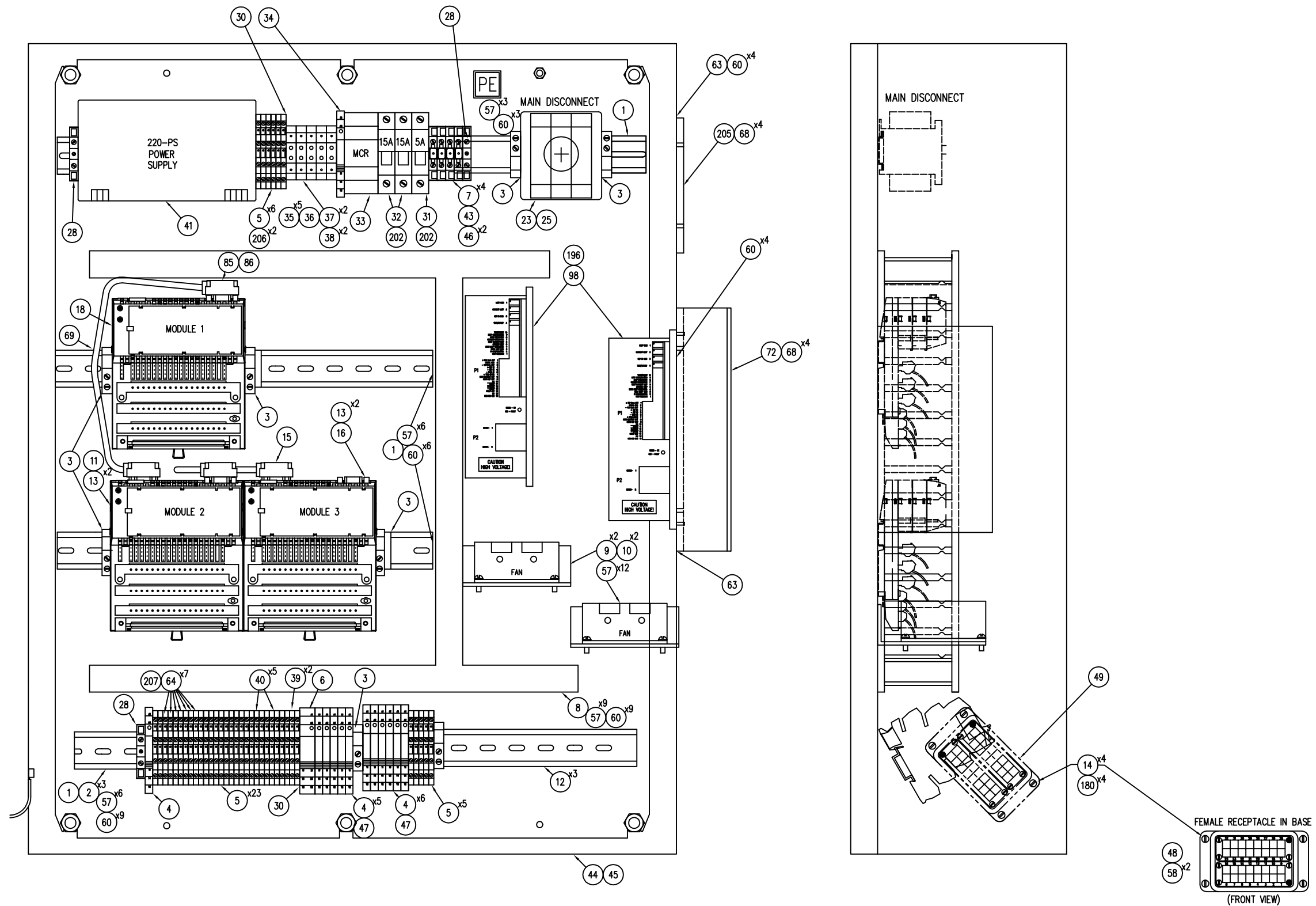
RIGHT SIDE BACK PANEL WIRING

INCOMING POWER CONNECTIONS



NOTES:
ALL WIRING 20AWG BLUE EXCEPT AS NOTED
ALL WIRE 2211 IS BLUE/WHITE
ALL 2040 IS 12AWG BLACK
ALL 2100 14AWG RED
ALL 2101, 2120 WIRE EXCEPT SERVO POWER CORD IS 20 AWG RED
WIRE 2121 FROM DISCONNECT TO UPPER TERMINALS IS 12 AWG WHITE
ALL OTHER 2121 WIRING EXCEPT FOR SERVO POWER CONNECTOR IS 20 AWG WHITE
WIRE 2210, 2211 FROM 220-PS TO UPPER TERMINALS IS 16 AWG
WIRE 2210, 2211 FROM UPPER TERMINALS TO LOWER TERMINALS IS 16 AWG
ALL GND WIRE IS GREEN
ALL UN-NUMBERED WIRES ARE 20 AWG YELLOW

[illegible]



NOT SHOWN:

79 204
80 213
81
84

4. DEBURR
3. SURFACE FINISH 125
2. ALL THREADS CLASS 2A OR 2B
1. PARTS TO CONFORM TO RIMROCK CORP. ENGR. & MFG. STANDARDS
NOTES (UNLESS OTHERWISE SPECIFIED)

000	8.21	ADDED FUSE TO INDIVIDUALLY FUSE BOTH SERVO DRIVES	H	DS	000	3.14	ADDED OPTIONAL RELAYS	E	DS	MAT'L: SEE B.O.M.	DR MAX	DATE 7/10/02	SCALE HALF	REV
052	11.20	CHANGED BOX CUTOFF FOR EPIC CONNECTOR AND REMOVED ADAPTER	G	DS	000	4.13	CHANGED INTERLOCK RELAYS TO CUSTOMER OPTION OF 24VDC OR 120VAC	D	MK		CK	DATE 11/22/03	SHEET 9 OF 10	REV
000	4.20	CHANGED IO BASE INPUT FUSE FROM .315A TO 1A TIME DELAY.	F	DS	000	2.21	UPDATED BALLOON NUMBERS	C	MK					
					0091	12.18	ADDED RELAYS FOR INTERLOCKS AND CHANGED HMI TO EXTER K60	B	MK					
					0248	8.8	ADDED ELECTRICAL TAG AND STICKER	A	MK					
ER	DATE	REMARKS	LET	DR	CK	ER	DATE	REMARKS	LET	DR	CK			
REVISIONS					REVISIONS									

RIMROCK

RIMROCK CORPORATION
1700 RIMROCK ROAD
COLUMBUS, OHIO 43219

PHONE: 614-471-5928
FAX: 614-471-1073
A Registered Trademark of Rimrock Corporation, Columbus, Ohio U.S.A.

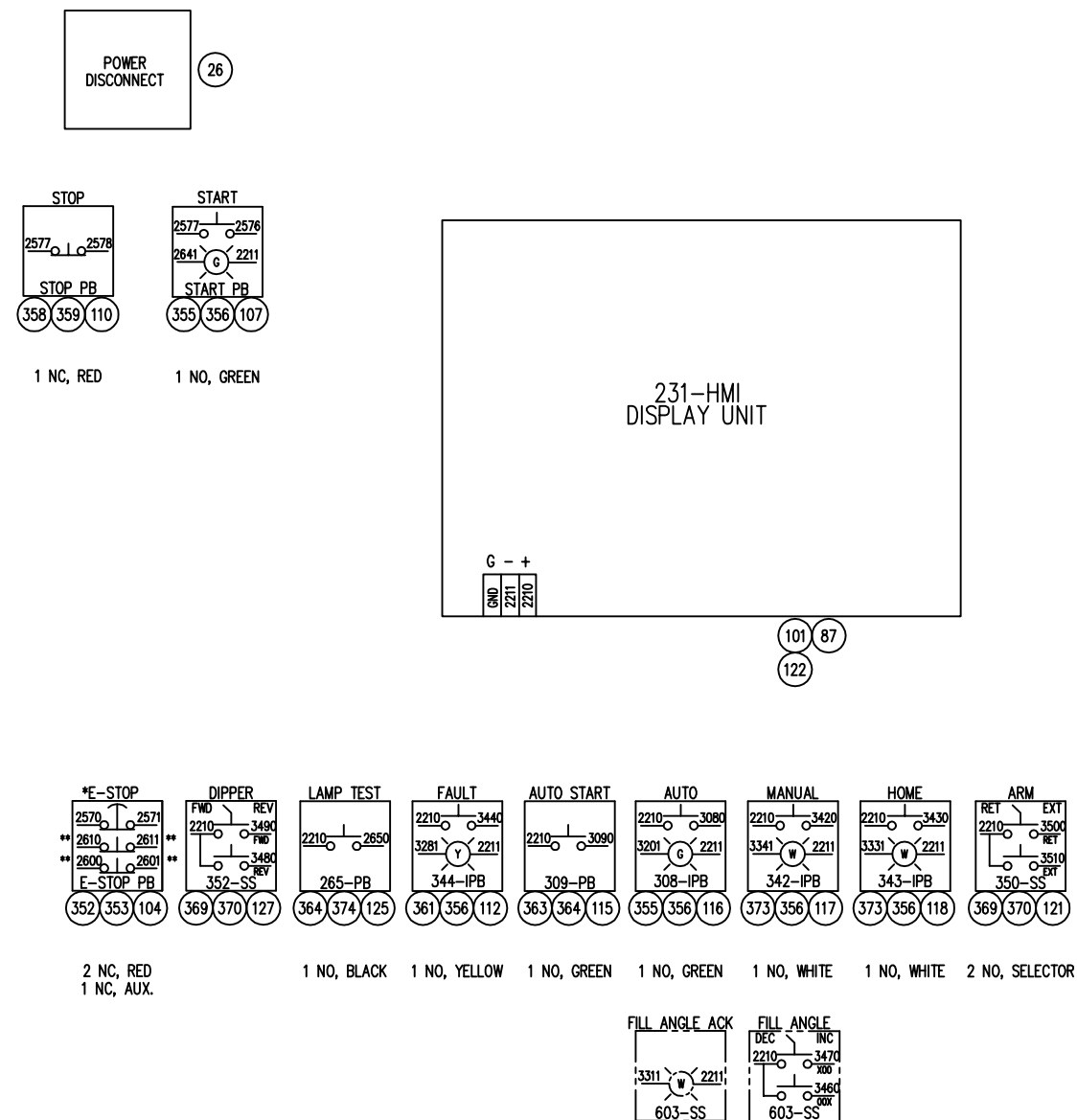
TOLERANCES UNLESS OTHERWISE SPECIFIED
2-DIGIT DECIMALS= ±.010 FRACTIONS= ±1/64
3-DIGIT DECIMALS= ±.005 ANGLES= ±1/2
4-DIGIT DECIMALS= ±.0005

DRAWING NO. 306D17455-050

LAYOUT AND BOM

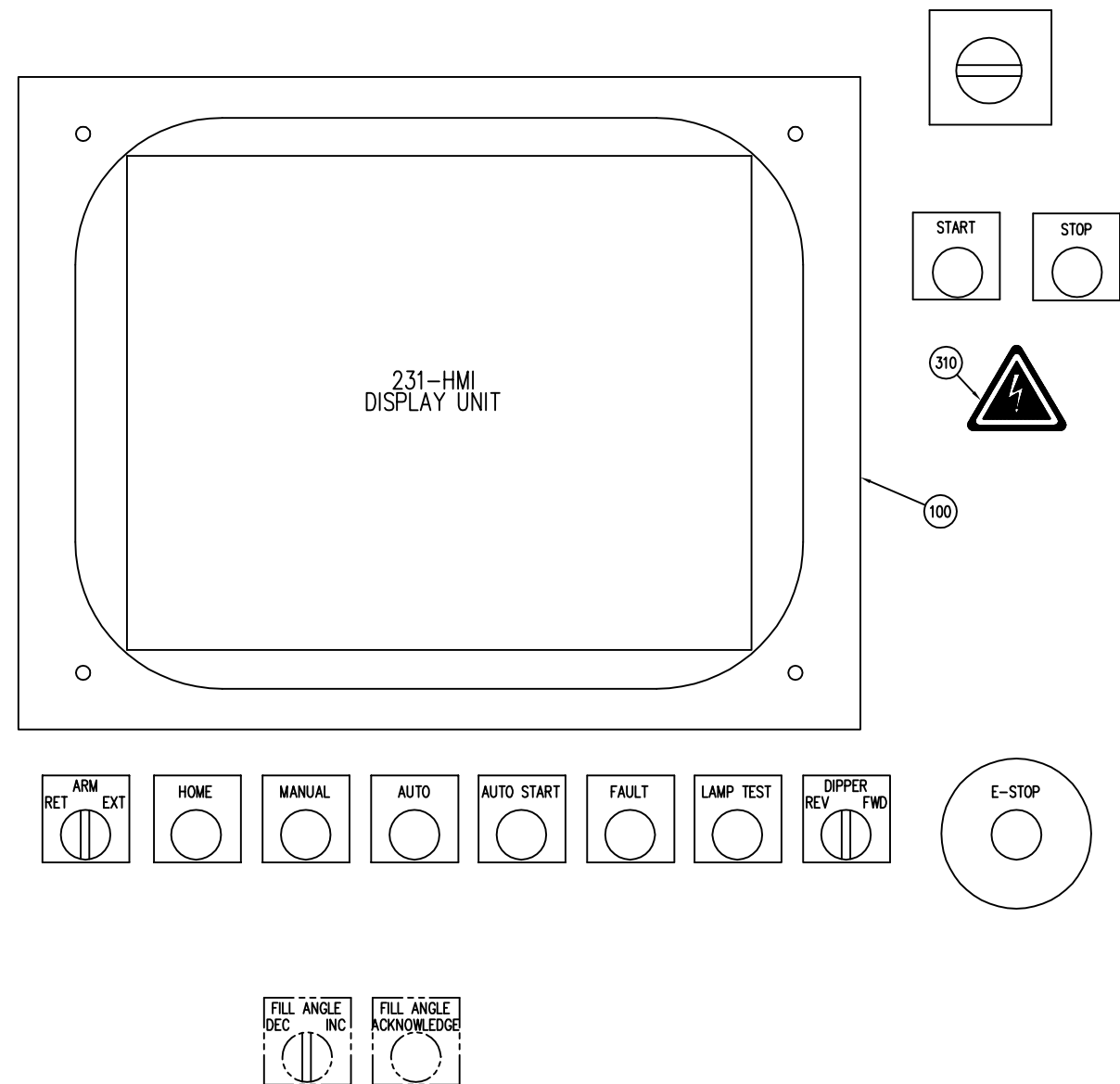
EPIC CONTROLS

FOR STANDARD 305 LADLE
THIS DRAWING IS THE PROPERTY OF RIMROCK CORP. AND IS FOR THE CONFIDENTIAL USE OF THE BUYER OR SUPPLIER OF THIS EQUIPMENT



* NOTE: E-STOP MOUNTED WITHOUT HMI USE WIRE NUMBERS 2571,2572,2611,2612,2601 AND 2602
** NOTE: WIRES 2600,2601,2610 AND 2611 ARE 20GA. YELLOW WIRE

REAR VIEW



FRONT VIEW

NOTE: STANDARD FRONT PANEL SHOWN
OPTIONS MAY CHANGE APPERANCE

- DEBURR
 - SURFACE FINISH 125
 - ALL THREADS CLASS 2A OR 2B
 - PARTS TO CONFORM TO RIMROCK CORP. ENGR. & MFG. STANDARDS
- NOTES (UNLESS OTHERWISE SPECIFIED)

REV	DATE	REMARKS	REV	DATE	REMARKS	REV	DATE	REMARKS	REV	DATE	REMARKS
000	3.14	ADDED OPTIONAL RELAYS	E	DS							
000	4.13	CHANGED INTERLOCK RELAYS TO CUSTOMER	D	MK							
000	2.21	OPTION OF 24VDC OR 120VAC									
000	12.18	UPDATED BALLOON NUMBERS	C	MK							
052	11.20	ADDED RELAYS FOR INTERLOCKS AND	B	MK							
052	12.18	CHANGED HMI TO EXTER K60									
000	4.20	ADDED ELECTRICAL TAG AND STICKER	A	MK							
000	8.8										
000	03										
ER	DATE	REMARKS	LET	DR	CK	ER	DATE	REMARKS	LET	DR	CK

SEE DRAWING 140B09520-35 FOR ENGRAVING INSTRUCTIONS

309

313

GENERAL ELECTRICAL INFORMATION PLATE

MODEL No. DATE

MFG. No. -

INPUT V~ Ph Hz A

INT. CURR. A

DIAGRAM#

RIMROCK CORPORATION COLUMBUS, OHIO U.S.A.

DR	MAH	DATE	7/10/02	SCALE	NONE	PK
CK	DATE	8.22.13	ER			SHEET 10 OF 10
DRAWING NO.	306D17455-050 H					
DRAWING NAME	FRONT PANEL LAYOUT AND BOM					
EPIC CONTROLS						
FOR STANDARD 305 LADLE						
THIS DRAWING IS THE PROPERTY OF RIMROCK CORP. AND IS FOR THE CONFIDENTIAL USE OF THE BUYER OR SUPPLIER OF THIS EQUIPMENT						

TOLERANCES UNLESS OTHERWISE SPECIFIED

2-DIGIT DECIMALS= ±.010 FRACTIONS= ± 1/64

3-DIGIT DECIMALS= ±.005 ANGLES= ± 1/2

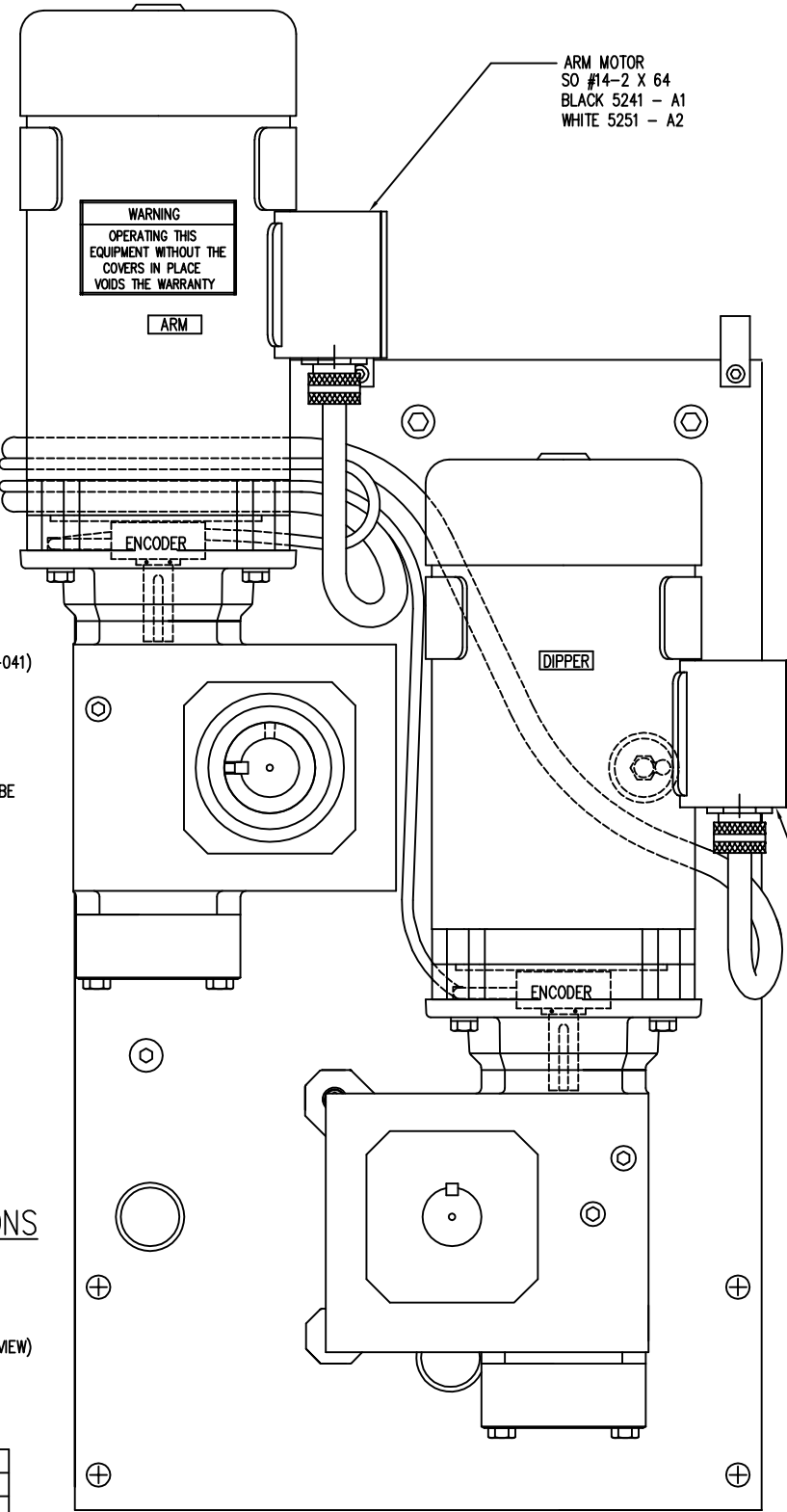
4-DIGIT DECIMALS= ±.0005

ARM ENCODER TERMINATIONS

ARM ENCODER CONNECTOR RECEPTACLE (R.R. P/N 11042-601) W/ FEMALE PINS (R.R. P/N 11042-604)

(REAR VIEW)

P/N	WIRE#	COLOR	FUNCTION
1	SHLD	DRAIN	SHIELD
2	5090	RED	+5V
3	5100	BLACK	COMM.
4	-	-	N.A.
5	-	-	N.A.
6	5050	GREEN	B
7	5040	BLUE	B
8	5030	WHITE	A
9	5020	BROWN	A

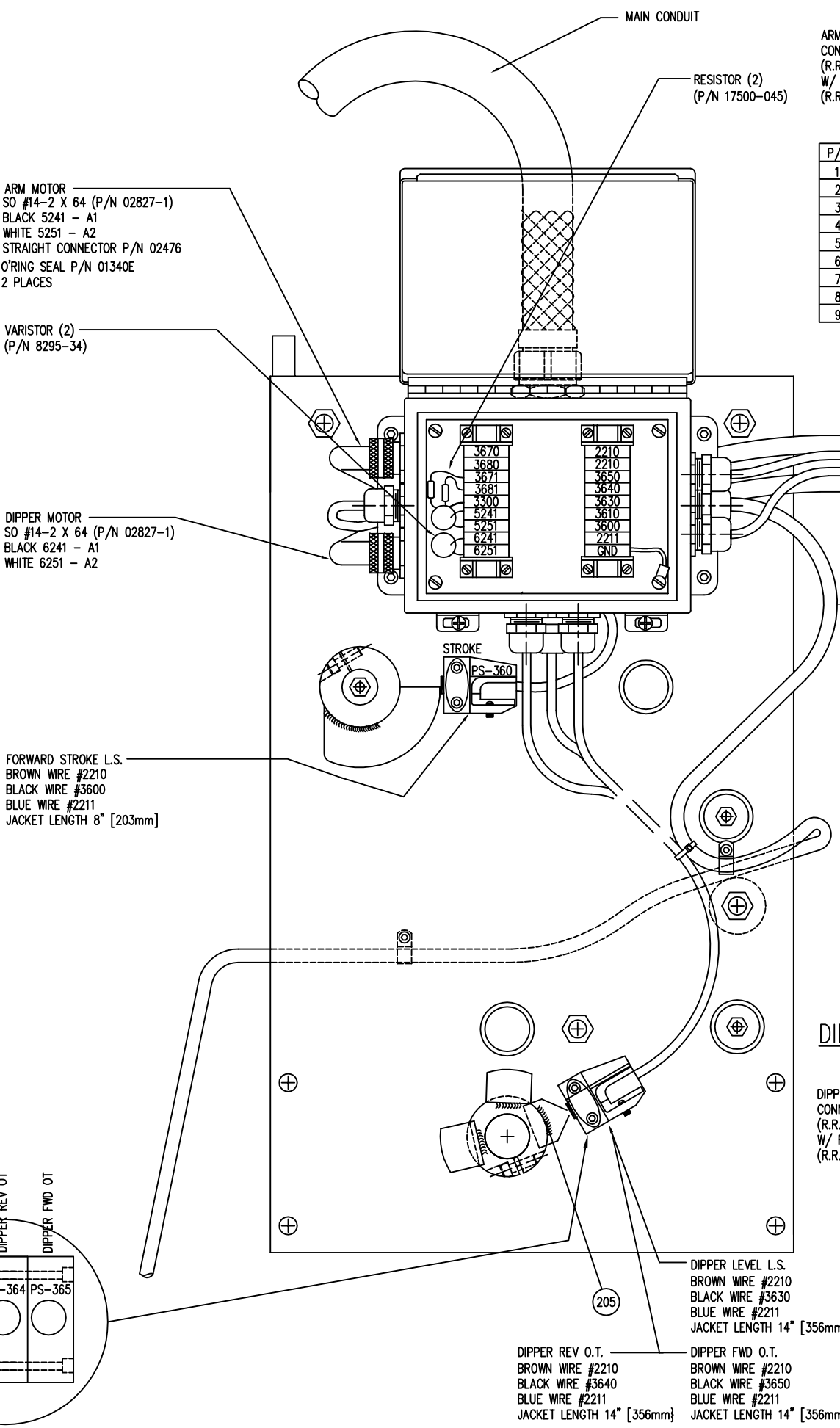
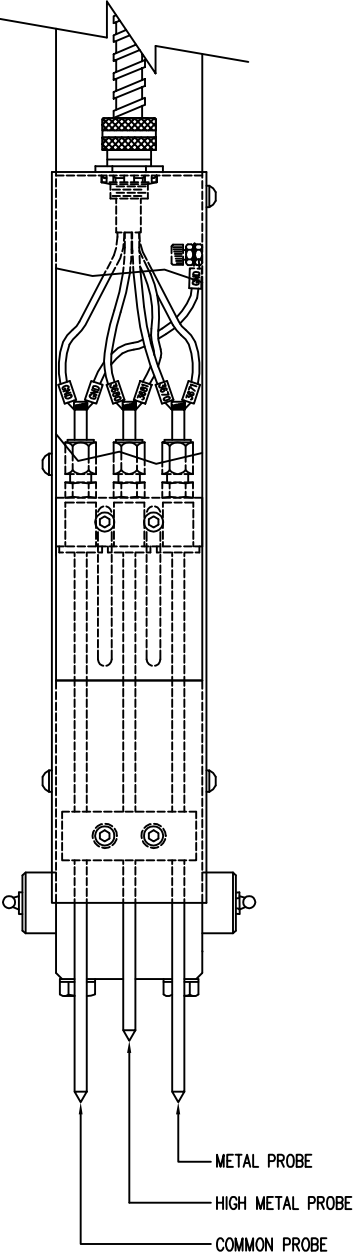


DIPPER ENCODER TERMINATIONS

DIPPER ENCODER CONNECTOR RECEPTACLE (R.R. P/N 11042-601) W/ FEMALE PINS (R.R. P/N 11042-604)

(REAR VIEW)

P/N	WIRE#	COLOR	FUNCTION
1	SHLD	DRAIN	SHIELD
2	5090	RED	+5V
3	5100	BLACK	COMM.
4	-	-	N.A.
5	-	-	N.A.
6	6050	GREEN	B
7	6040	BLUE	B
8	6030	WHITE	A
9	6020	BROWN	A



000 12.18 07 ADDED A PAGE TO SHOW MICROLOGIX NUMBERS		D	MK	MAT'L: SEE B.O.M.	DR	AC	DATE	01.24.03	SCALE	HALF	PG
0356 6.08 04 CHANGED TERMINAL STRIP LAYOUT TO AS BUILT		C	MK		ER	03-0039	SHEET	6	OF	7	REV
0328 10.07 03 CHANGED TERMINAL STRIP LAYOUT AND JUNCTION BOX CABLE ENTRY		B	DS		305D10687-09						
0328 10.07 03 ADDED METRIC DIMENSIONS		B	MK		FINAL LADLE ASS'Y						
0262 9.18 03 CHANGED DIPPER OVERTRAVEL		A	MK		305 STANDARD DUTY ASSEMBLY						
04.12 10 REMOVED ITEMS 250,448,449; CHANGED QTY'S FOR ITEMS 210,213,228,244,325,446,447,454		E	JAB		FOR MLL						
REVISIONS		LET DR CK		REVISIONS		LET DR CK		THIS DRAWING IS THE PROPERTY OF RIMROCK CORP. AND IS FOR THE CONFIDENTIAL USE OF THE BUYER OR SUPPLIER OF THIS EQUIPMENT			

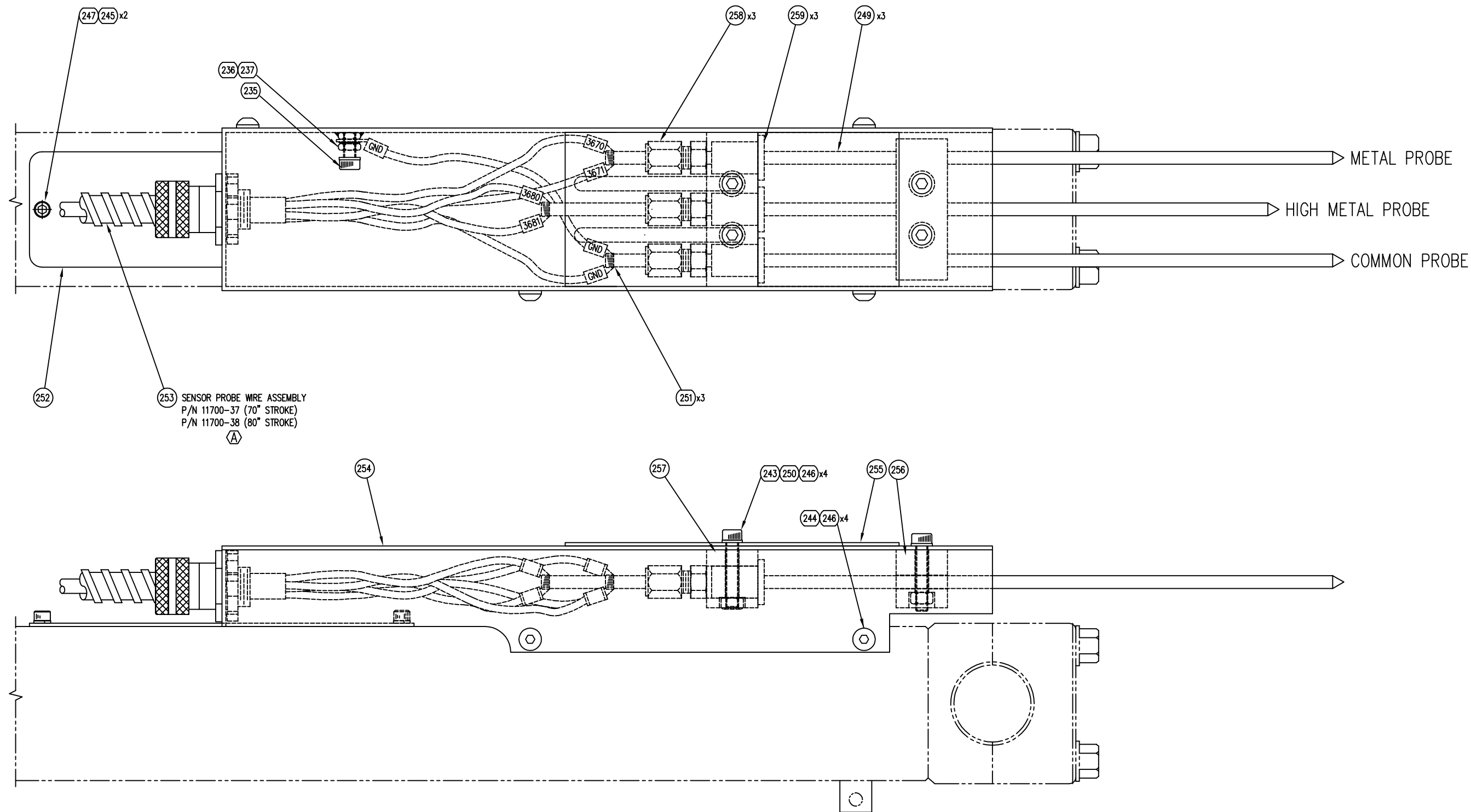
PHONE: 614-471-5928 FAX: 614-471-1073

RIMROCK CORPORATION 1700 RIMROCK ROAD COLUMBUS, OHIO 43219

TOLERANCES UNLESS OTHERWISE SPECIFIED
2-DIGIT DECIMALS= ±.010 FRACTIONS= ±1/64
3-DIGIT DECIMALS= ±.005 ANGLES= ±1/2
4-DIGIT DECIMALS= ±.0005

11700-123 - EPIC 305-70 SENSOR ASSEMBLY

<u>Item Number</u>	<u>Detail</u>	<u>Description</u>	<u>Qty</u>	<u>UM</u>
01981	61	HOLE SEAL-FOR 0.88" HOLE	1.00	EACH
02553	235	SHCS 10-32 X 3/4	1.00	EACH
02651	236	HEX NUT 10-32	1.00	EACH
02661-210	237	KEPS NUT 10-32	1.00	EACH
02635	243	SHCS 1/4-20 X 1-1/4	4.00	EACH
02663-8	244	BHCS 1/4-20 X 1/2	4.00	EACH
02678	245	LOCKWASHER LIGHT #10	3.00	EACH
02695-4	246	LOCKWASHER 1/4 LIGHT	7.00	EACH
02702-8	247	BHCS 10-32 X 1/2	3.00	EACH
04914-8	248	1/2" OD TUBE CLAMP	1.00	EACH
05527-14	249	***405 SENSOR PROBE 14"	3.00	EACH
08995-01	250	HEX NUT 1/4-20 SS	4.00	EACH
09010-06	251	SHCS M4-0.7 X 6MM	3.00	EACH
10929	252	ARM COVER 70 IN LADLE	0.00	EACH
11700-37	253	CONDUIT-SPRING PROBE WIRE ASSY EPIC	1.00	EACH
11720-90	254	***SENSOR COVER	1.00	EACH
11720-91	255	***SENSOR COVER SLIDE	1.00	EACH
11750-01	256	***PROBE GUIDE	1.00	EACH
11750-02	257	***PROBE ISOLATOR BLOCK	1.00	EACH
11750-03	258	CLAMP PROBE	3.00	EACH
11770-01	259	BUSHING - PROBE	3.00	EACH



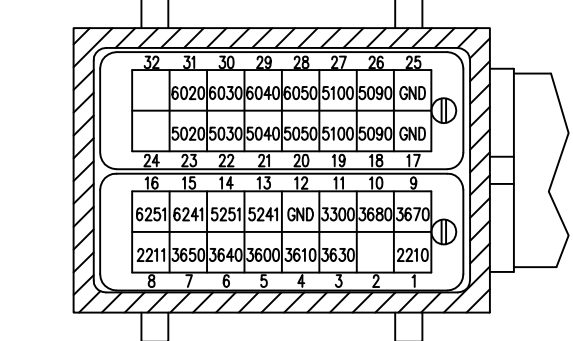
P/N 11700-123 (70" STROKE)
P/N 11700-124 (80" STROKE)

4. DEBURR
 3. SURFACE FINISH 125
 2. ALL THREADS CLASS 2A OR 2B
 1. PARTS TO CONFORM TO RIMROCK CORP. ENGR. & MFG. STANDARDS
- NOTES (UNLESS OTHERWISE SPECIFIED)

DR. ACY		DATE 01.24.03		SCALE FULL		PIC	
CK		DATE		03-0039		SHEET 1 OF 1	
DRAWING NO.		305D11700-123		REV		A	
DRAWING NAME		305 EPIC SENSOR ASSEMBLY		FOR		305 MLL	
TOLERANCES UNLESS OTHERWISE SPECIFIED		2-DIGIT DECIMALS= ±.010		FRACTIONS= ± 1/64		3-DIGIT DECIMALS= ±.005	
4-DIGIT DECIMALS= ±.0005		ANGLES= ± 1/2		THIS DRAWING IS THE PROPERTY OF RIMROCK CORP. AND IS FOR THE		CONFIDENTIAL USE OF THE BUYER OR SUPPLIER OF THIS EQUIPMENT	

17528-030 - 305 EPIC MACHINE CABLE 30FT

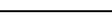
<u>Item Number</u>	<u>Detail</u>	<u>Description</u>	<u>Qty</u>	<u>UM</u>
08395-4	1	CONDUIT KELLEMS 1" WIREMESH GRIP	1.00	EACH
02083-3	2	CONDUIT EXTRA FLEX 1"	30.00	FEET
02898-65	3	WIRE 16AWG BLUE	297.00	FEET
02898-5	4	WIRE 14AWG GREEN	33.00	FEET
02898-6	5	WIRE 14AWG BLACK	132.00	FEET
02103-4	6	CONNECTOR 1" STRAIGHT	2.00	EACH
02898-79	7	WIRE TFFN 16AWG STRANDED BLUE W/	33.00	FEET
11360-58	10	QUICK DISCONNECT HOOD 32 PIN	1.00	EACH
11360-50	11	QUICK DISCONNECT PLUG #1-16	1.00	EACH
11360-51	12	QUICK DISCONNECT PLUG 17-32	1.00	EACH
11042-602	13	CONNECTOR ENCODER - FEMALE	2.00	EACH
11042-603	14	TERMINAL ENCODER MALE .062 - PIN	14.00	EACH
02915-17	15	CABLE SHIELDED 6 COND 22 AWG	66.00	FEET
11360-16	16	DISCONNECT CODING PIN	2.00	EACH



-080 80 FT [24.38M]	1	BLUE W/WHT	83'	[25.30M]	02898-79	C
	4	BLACK WIRE	83'	[25.30M]	02898-6	
	1	GREEN WIRE	83'	[25.30M]	02898-5	
	9	BLUE WIRES	83'	[25.30M]	02898-65	
	2	SHIELDED CABLE	83'	[25.30M]	02915-17	
-065 65 FT [19.81M]	1	CONDUIT - 1"	80'	[24.38M]	02083-3	C
	1	BLUE W/WHT	68'	[20.73M]	02898-79	
	4	BLACK WIRE	68'	[20.73M]	02898-6	
	1	GREEN WIRE	68'	[20.73M]	02898-5	
	9	BLUE WIRES	68'	[20.73M]	02898-65	
-060 60 FT [18.29M]	2	SHIELDED CABLE	68'	[20.73M]	02915-17	C
	1	CONDUIT - 1"	65'	[19.81M]	02083-3	
	1	BLUE W/WHT	63'	[19.20M]	02898-79	
	4	BLACK WIRE	63'	[19.20M]	02898-6	
	1	GREEN WIRE	63'	[19.20M]	02898-5	
-050 50 FT [15.24M]	9	BLUE WIRES	63'	[19.20M]	02898-65	C
	2	SHIELDED CABLE	63'	[19.20M]	02915-17	
	1	CONDUIT - 1"	60'	[18.29M]	02083-3	
	1	BLUE W/WHT	53'	[16.15M]	02898-79	
	4	BLACK WIRE	53'	[16.15M]	02898-6	
-045 45 FT [13.72M]	1	GREEN WIRE	53'	[16.15M]	02898-5	C
	9	BLUE WIRES	53'	[16.15M]	02898-65	
	2	SHIELDED CABLE	53'	[16.15M]	02915-17	
	1	CONDUIT - 1"	50'	[15.24M]	02083-3	
	1	BLUE W/WHT	48'	[14.63M]	02898-79	
-040 40 FT [12.19M]	4	BLACK WIRE	48'	[14.63M]	02898-6	C
	1	GREEN WIRE	48'	[14.63M]	02898-5	
	9	BLUE WIRES	48'	[14.63M]	02898-65	
	2	SHIELDED CABLE	48'	[14.63M]	02915-17	
	1	CONDUIT - 1"	45'	[13.72M]	02083-3	
-040 40 FT [12.19M]	1	BLUE W/WHT	43'	[13.11M]	02898-79	C
	4	BLACK WIRE	43'	[13.11M]	02898-6	
	1	GREEN WIRE	43'	[13.11M]	02898-5	
	9	BLUE WIRES	43'	[13.11M]	02898-65	
	2	SHIELDED CABLE	43'	[13.11M]	02915-17	
	1	CONDUIT - 1"	40'	[12.19M]	02083-3	
DASH NO & LENGTH		QTY	DESCRIPTION	OUT	PART NO.	

16	CODING PIN	2	11360-16
15	CABLE, SHIELDED-6 CONDUCTOR	TAB	02915-17
14	TERMINAL	14	11042-603
13	CONNECTOR	2	11042-602
12	QUICK DISCONNECT PLUG #17-#32	1	11360-51
11	QUICK DISCONNECT PLUG #1-#16	1	11360-50
10	QUICK DISCONNECT HOOD	1	11360-58
9			
8			
7	BLUE WITH WHITE STRIPE 16 GA	TAB	02898-79
6	CONNECTOR - 1" SEALTIGHT	2	02103-4
5	BLACK 14 AWG THHN WIRE	TAB	02898-6
4	GREEN 14 AWG THHN WIRE	TAB	02898-5
3	BLUE 16 AWG THHN WIRE	TAB	02898-65
2	CONDUIT - 1" SEALTIGHT	TAB	02083-3
1	CONDUIT KELLEMS 1IN	1	08395-4
ITEM	DESCRIPTION	QTY	PART NUMBER

MAT'L:

 * RIMROCK CORPORATION
1700 JETWAY BLVD.
COLUMBUS, OHIO 43219

* PHONE: 614-471-5926 FAX: 614-471-1073
* A Registered Trademark of Rimrock Corporation, Columbus, Ohio U.S.A.

TOLERANCES UNLESS OTHERWISE SPECIFIED

2-DIGIT DECIMALS = ± .010	FRACTIONS = ± 1/64
3-DIGIT DECIMALS = ± .005	ANGLES = ± 1/2
4-DIGIT DECIMALS = ± .0005	

DR	MK	DATE	01.02.03	SCALE	NONE	PIC	
CK		DATE		ER	0	SHEET	OF
DRAWING NO.						REV	
306C17528-000						C	
DRAWING NAME WIRING LAYOUT FOR MLL							
CONTROL CABLE							
FOR EPIC CONTROLS							
THIS DRAWING IS THE PROPERTY OF RIMROCK CORP. AND IS FOR THE CONFIDENTIAL USE OF THE BUYER OR SUPPLIER OF THIS EQUIPMENT							

4. DEBURR
3. SURFACE FINISH 125
2. ALL THREADS CLASS 2A OR 2B
1. PARTS TO CONFORM TO RIMROCK CORP. ENGR. & MFG. STANDARDS
NOTES (UNLESS OTHERWISE SPECIFIED)