



Hydraulic Schematics Manual

Boom Lifts

PVC 2001/PVC 2007

31221527

October 26, 2022 - Rev A



An Oshkosh Corporation Company

EFFECTIVITY PAGE

DATE	REVISION	DESCRIPTION
October 26, 2022	A	Original Issue Of Manual

GENERAL NOTE

UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN MILLIMETERS (INCHES).

For Example:

- Bore: 92 (3.625)
- Stroke: 102 (4)

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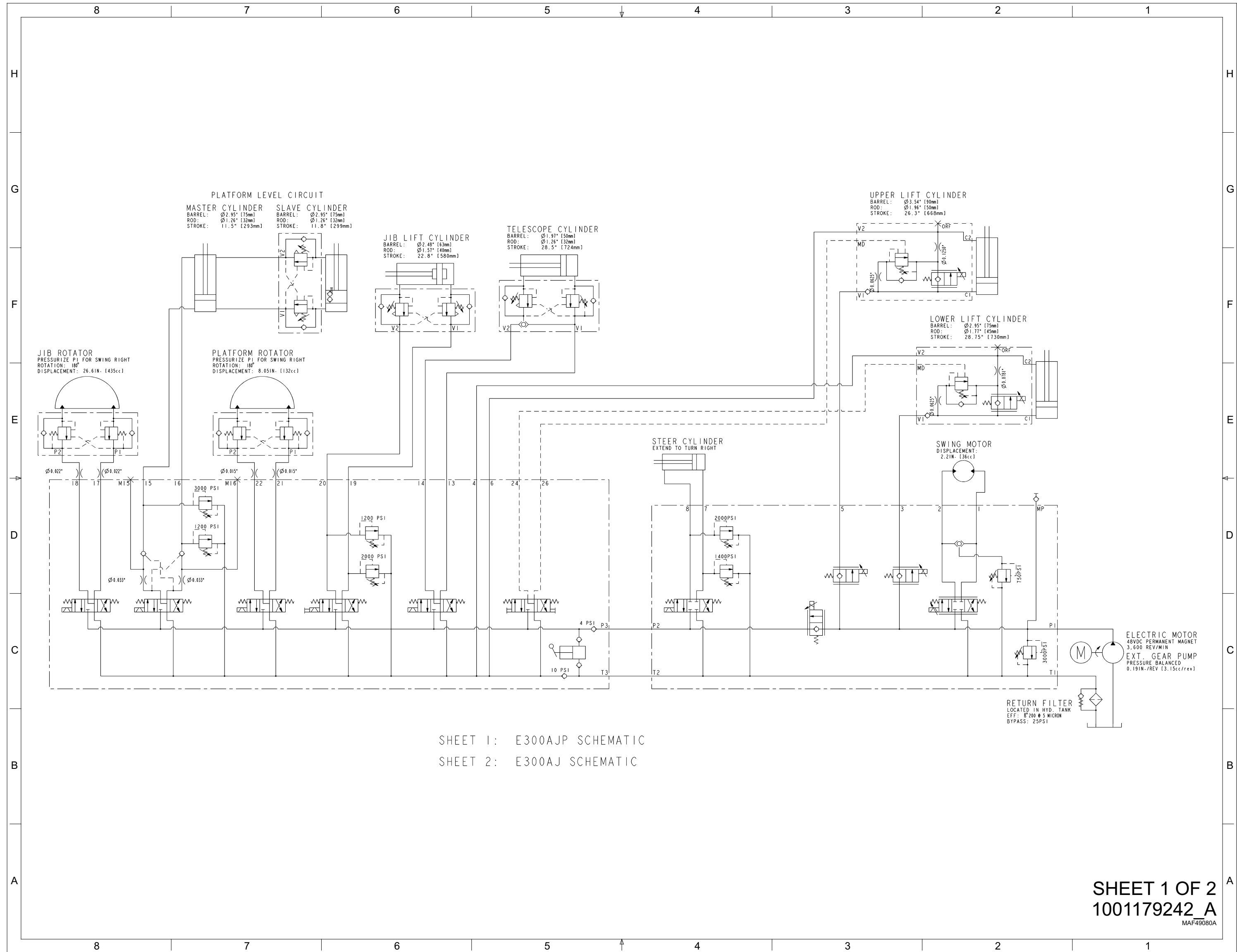
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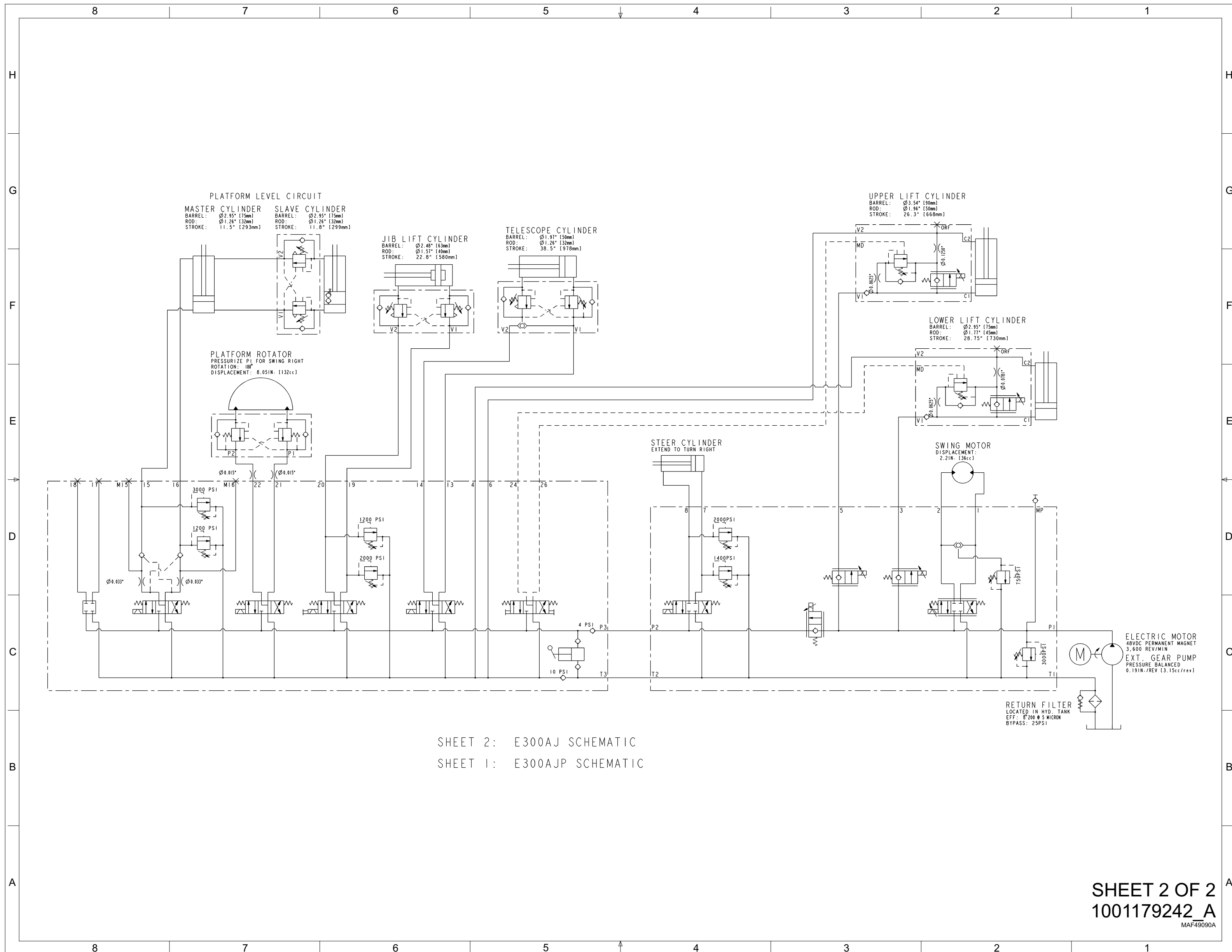
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Section 1 - Boom Lifts

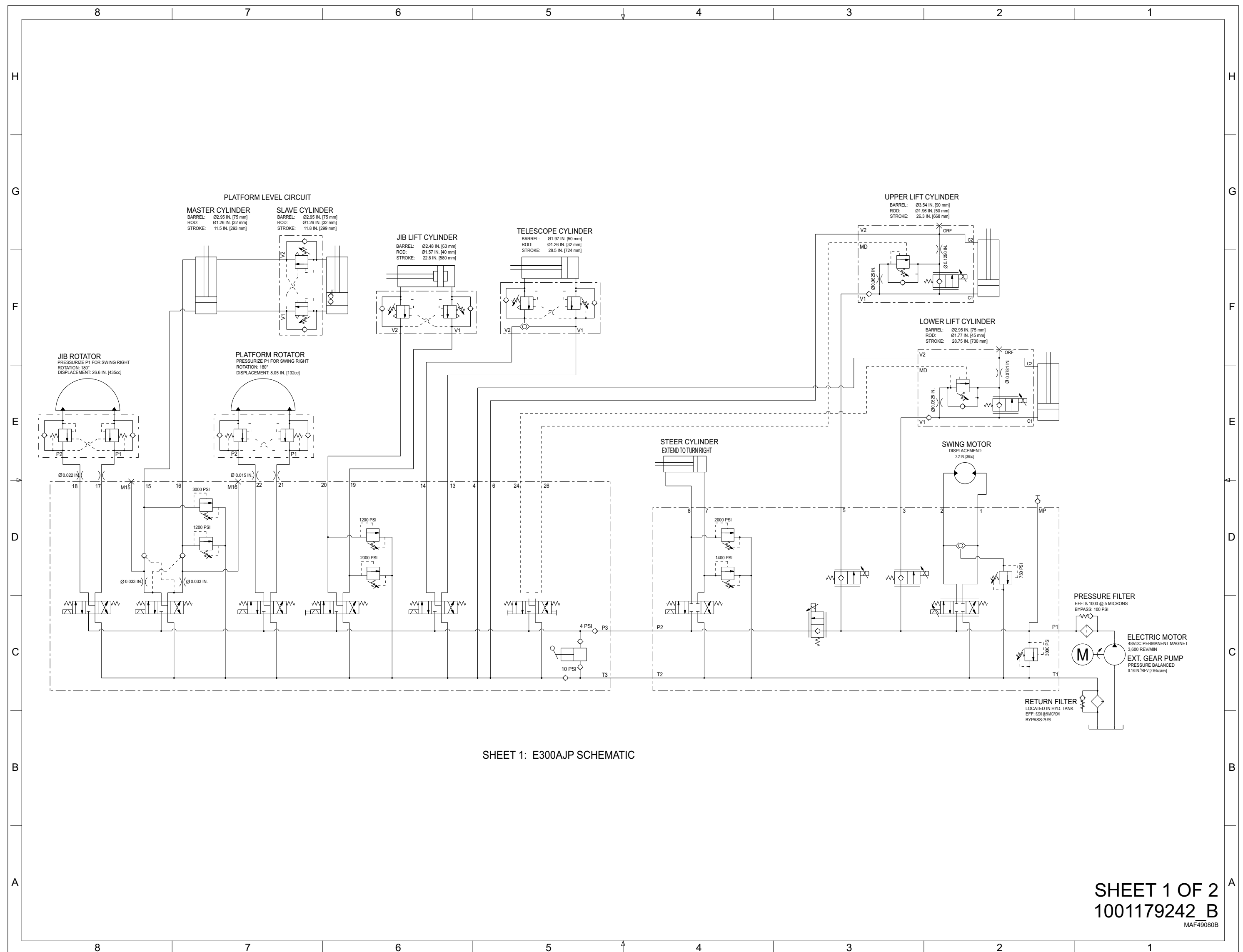
1.1 E300AJ/E300AJP

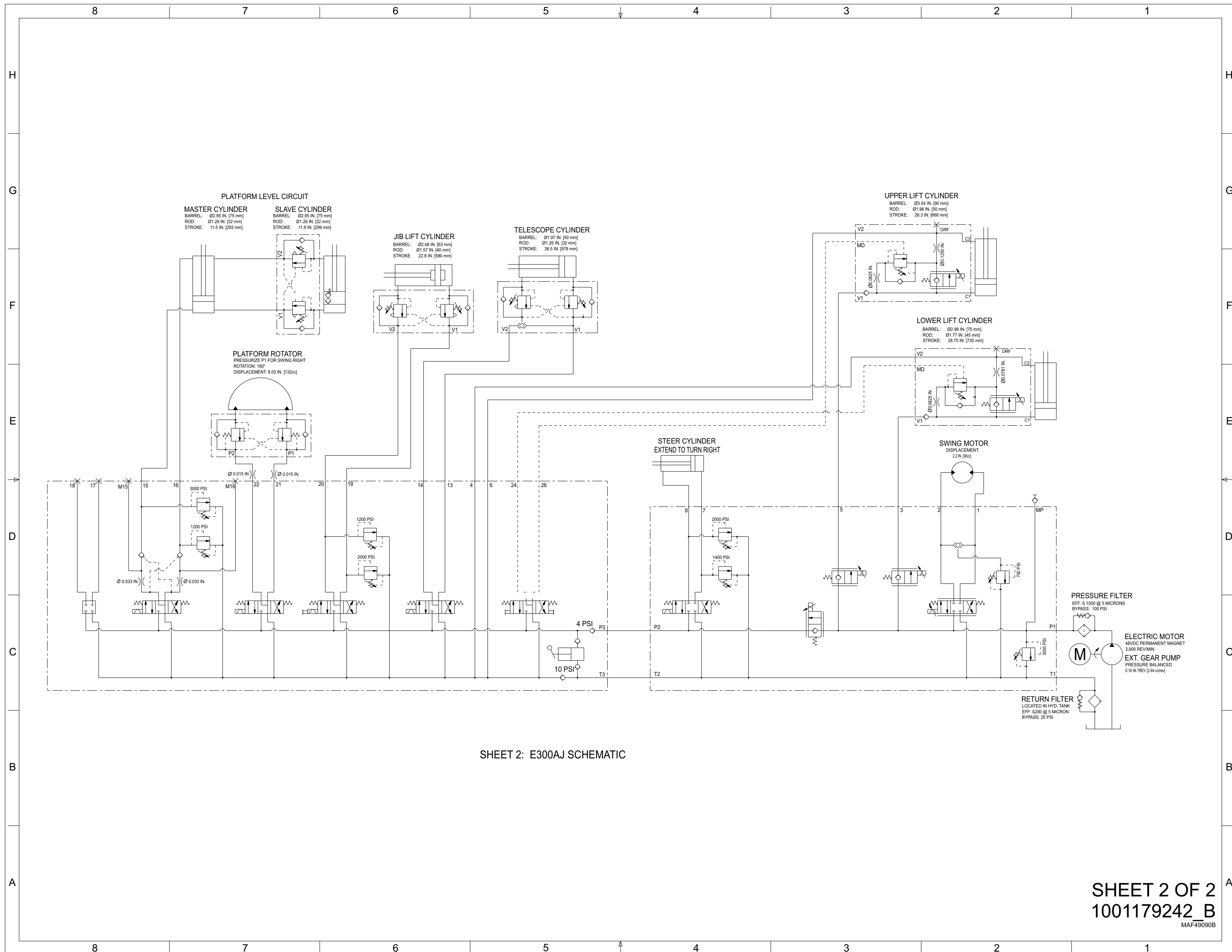
1.1.1 PVC 2001





1.1.2 PVC 2007



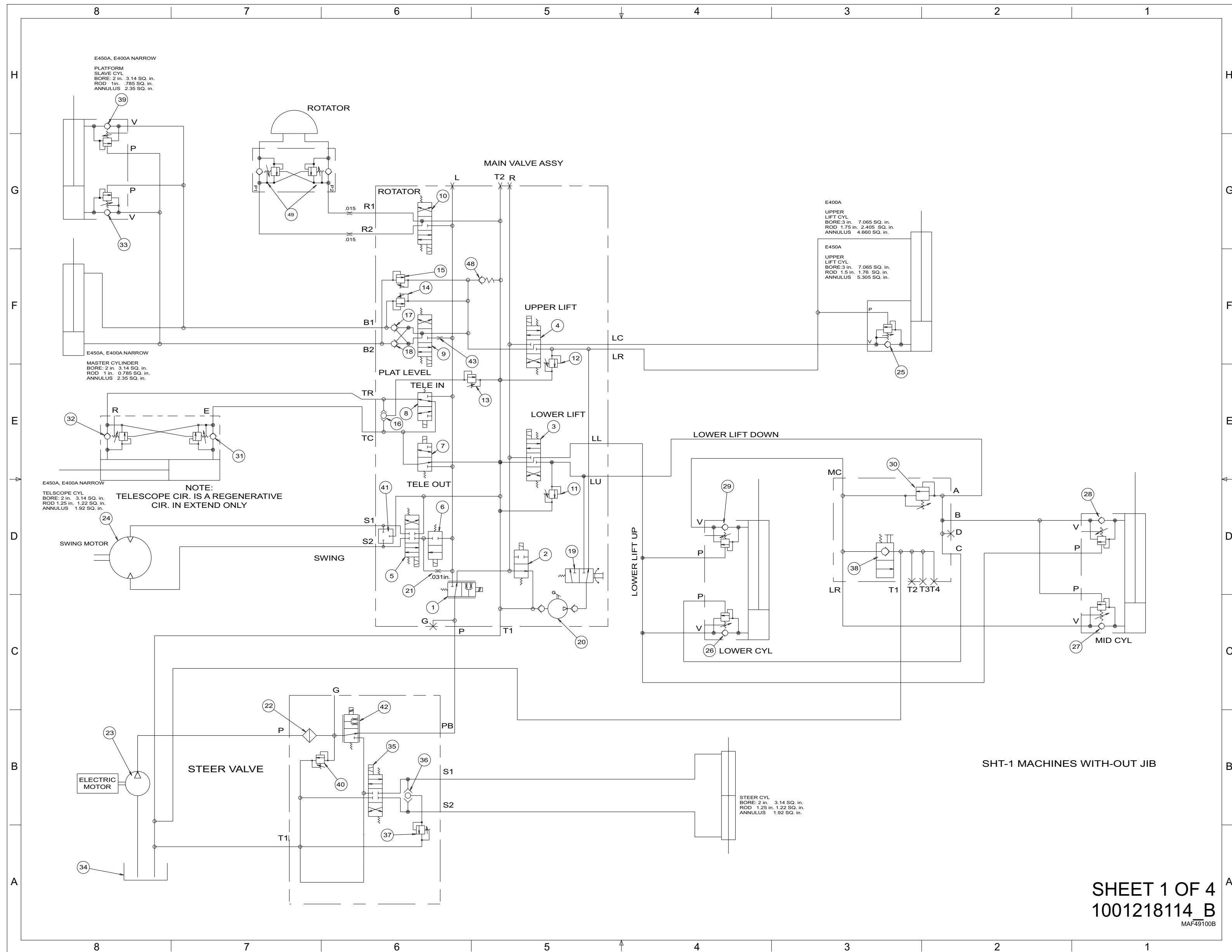


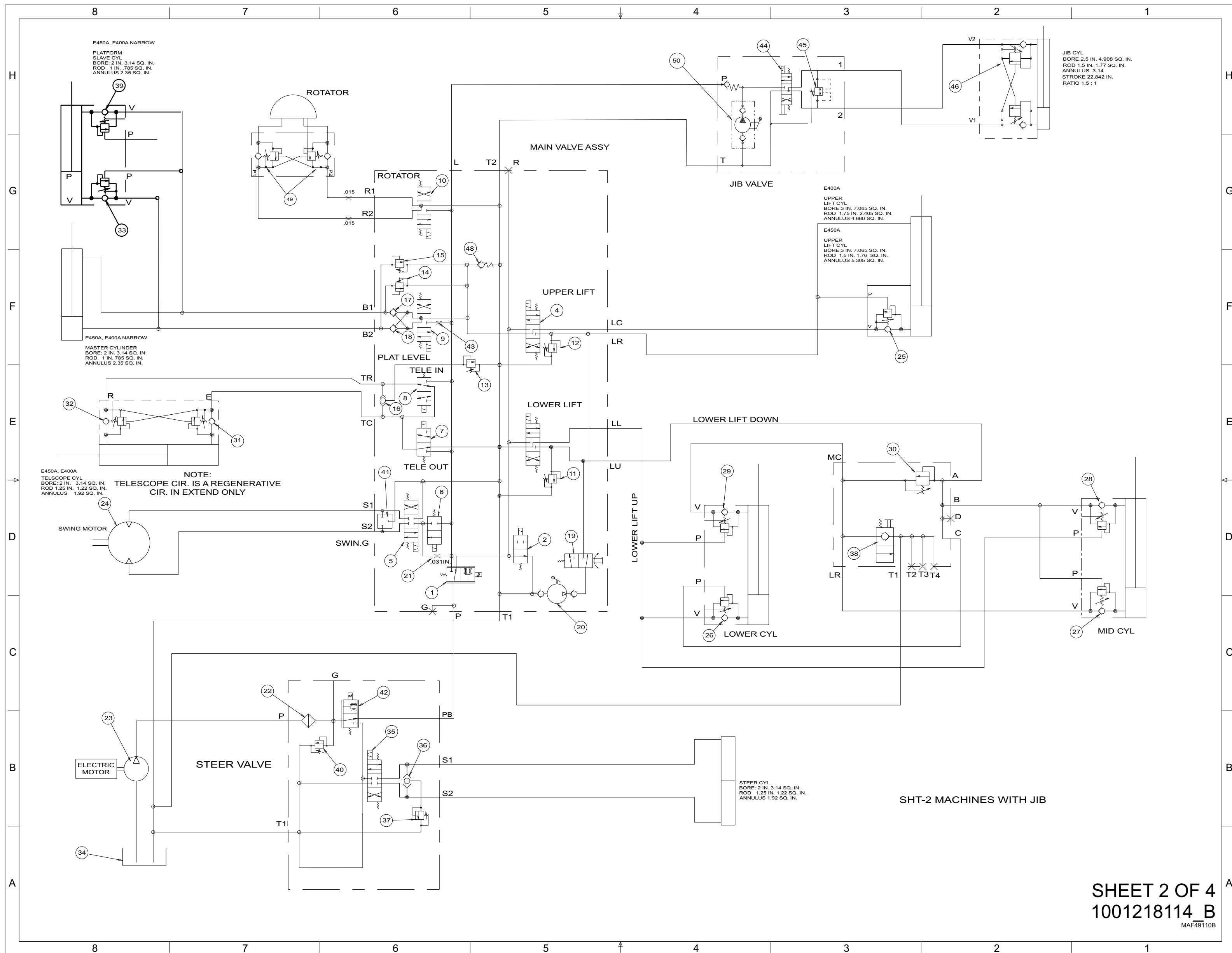
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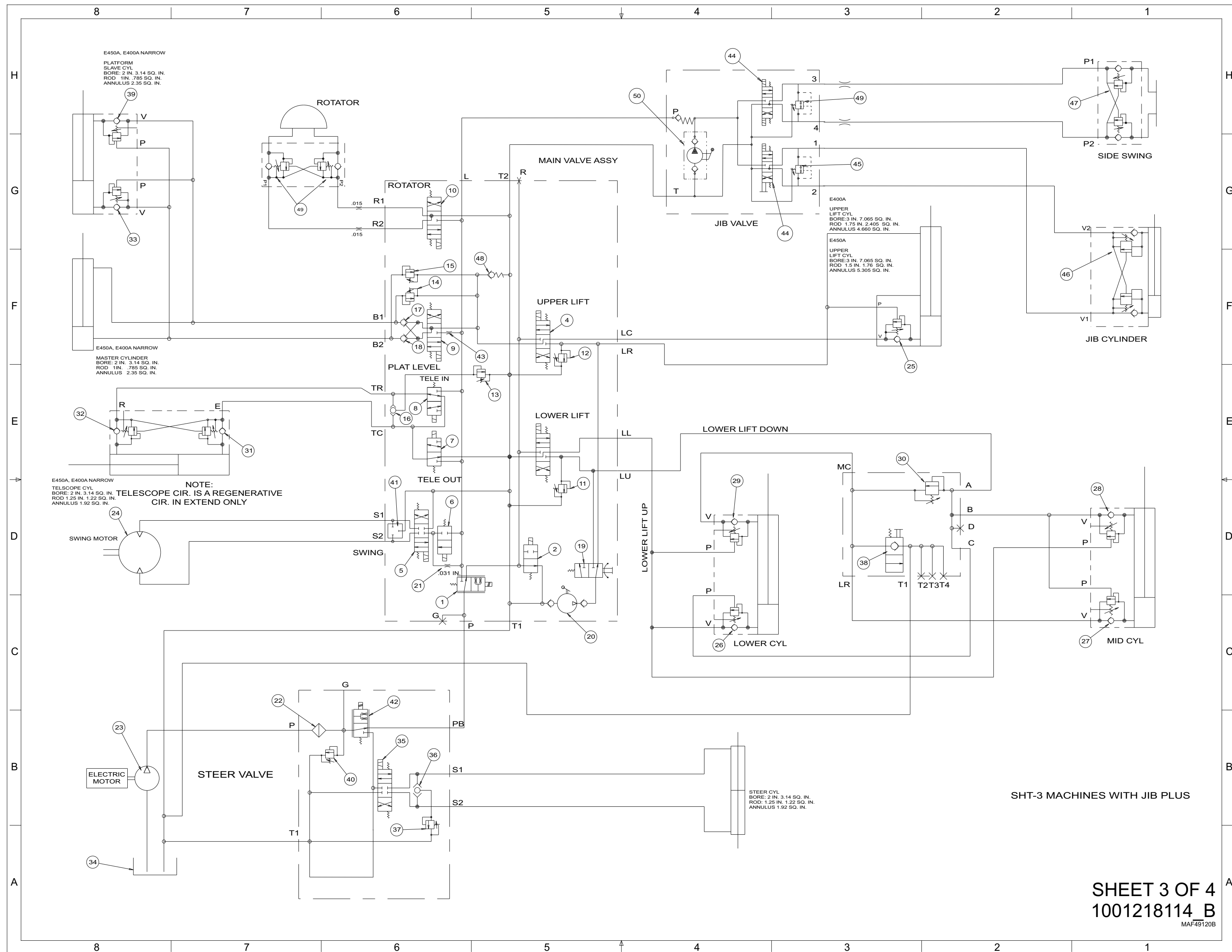
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1.2 E400A Narrow/E400AJP Narrow, E450AJ

1.2.1 PVC 2001/PVC 2007







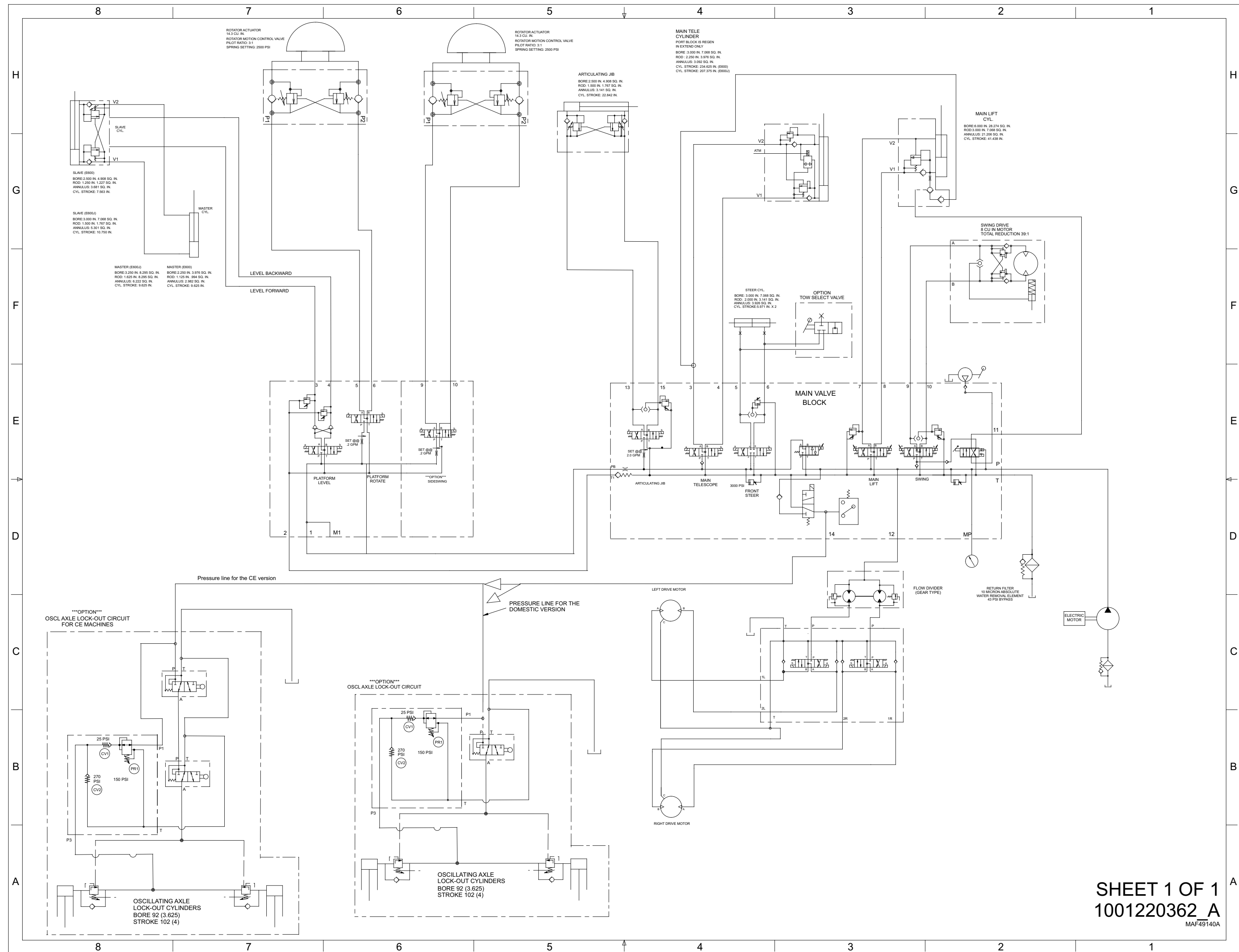
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H	COMPONENT LIST								H
G	<ol style="list-style-type: none"> 1. PROPORTIONAL FLOW REGULATOR, PRESSURE COMPENSATED, PV70-3001B-0-N-12DW 2. 2-POS, 2-WAY POPPET VALVE, NORMALLY OPEN, SV08-21-0-N-12DW (BYPASS UNLOADING) 3. 3-POS, 4-WAY VALVE, SV10-4722E-0-N-12DW, (LOWER LIFT) 4. 3-POS, 4-WAY VALVE, SV10-4722E-0-N-12DW, (UPPER LIFT) 5. 3-POS, 4-WAY VALVE, SV08-47C-0-N-12DW, (SWING) 6. 2-POS, 2-WAY SPOOL VALVE, NORMALLY CLOSED SV08-24-0-N-12DW 7. 2-POS, 3-WAY VALVE, SV10-33-0-N-12DW, (TELESCOPE OUT) 8. 2-POS, 3-WAY VALVE, SV10-33-0-N-12DW, (TELESCOPE IN) 9. 3-POS, 4-WAY VALVE, SV08-47D-0-N-12DW, (PLATFORM LEVEL) 10. 3-POS, 4-WAY VALVE, SV08-47D-0-N-12DW, (ROTATOR) 11. RELIEF VALVE, DIRECT ACTING, RV08-20A-0-N-33/26 (LOWER LIFT DOWN) SET AT 2600 PSI 12. RELIEF VALVE, DIRECT ACTING, RV08-20A-0-N-18/8.0 (UPPER LIFT DOWN) SET AT 800 PSI 13. RELIEF VALVE, DIRECT ACTING, RV08-20A-0-N-33/30 (TELESCOPE) SET AT 3000 PSI 14. RELIEF VALVE, DIRECT ACTING, RV08-20A-0-N-33/12 (PLATFORM LEVEL BACKWARD ROD END) SET AT 1200 PSI 15. RELIEF VALVE, DIRECT ACTING, RV08-20A-0-N-33/30 (PLATFORM LEVEL FORWARD PIST ON END) SET AT 3000 PSI 16. SHUTTLE VALVE, LS08-30-0-N, (TELESCOPE) 17. PILOT OPERATED CHECK, PC08-30-0-N, (PLATFORM LEVEL, ROD SIDE) 18. PILOT OPERATED CHECK, PC08-30-0-N, (PLATFORM LEVEL, PISTON SIDE) 19. ROTARY 2-POS, 3-WAY VALVE, MR10-31-0-N, W/6113160 (EMERGENCY DESCENT) 20. MANUAL HAND PUMP, HP10-21A-0-N-A (0.47 IN3) 21. 0.031 IN. ORIFICE PLUG 22. FILTER, HIGH PRESSURE, 10@2 ABSOLUTE G1761 23. ELECTRIC MOTOR, PUMP ASSEMBLY, 48VDC 24. MOTOR, GEROTOR TYPE, FIXED 3.2 CU. IN., (SWING) 25. COUNTERBALANCE CARTRIDGE, 10:1 @@ 3000 PSI, NON-VENTED SPRING 26. COUNTERBALANCE CARTRIDGE, 1:1 @@ 3500 PSI, VENTED SPRING, SEALED PILOT 27. COUNTERBALANCE CARTRIDGE, 1:1 @@ 3500 PSI, VENTED SPRING, SEALED PILOT 28. COUNTERBALANCE CARTRIDGE, 5:1 @@ 4000 PSI, VENTED SPRING, SEALED PILOT 29. COUNTERBALANCE CARTRIDGE, 5:1 @@ 4000 PSI, VENTED SPRING, SEALED PILOT 30. RELIEF VALVE, DIRECT ACTING, RV08-20A-0-NC-18/22, (LEVELING RELIEF VALVE) SET AT 2200 PSI CRACKING PRESSURE 31. COUNTERBALANCE CARTRIDGE, 10:1 @@ 2500 PSI, NON-VENTED SPRING 32. COUNTERBALANCE CARTRIDGE, 5:1 @@ 2500 PSI, VENTED SPRING, SEALED PILOT 33. COUNTERBALANCE CARTRIDGE, PILOT RATIO: 7:1 (2500 PSI HOLDING, 3300 PSI THERMAL) NON-VENTED SPRING, SEALED PILOT 34. HYDRAULIC TANK 35. 3-POS, 4-WAY VALVE, SV08-47C-0-N-12DW, (STEER) 36. SHUTTLE VALVE, LS08-30-0-N (STEER) 37. RELIEF VALVE, DIRECT ACTING, RV08-20A-0-NC-33/14 (STEER) SET AT 1400 PSI 38. MANUAL, SPRING RETURN, PULL TO OPEN POPPET CARTRIDGE (MP10-20-J) 39. COUNTERBALANCE CARTRIDGE, PILOT RATIO 10:1 (500 PSI HOLDING, 1200 PSI THERMAL) VENTED SPRING, SEALED PILOT 40. RELIEF VALVE, DIRECT ACTING, RV58-20A-0-NC-46/32 (SYSTEM RELIEF) SET AT 3200 PSI 41. CARTRIDGE PLUG CP08-30-0-N 42. PROPORTIONAL FLOW REGULATOR, PRESSURE COMPENSATED, PV70-30B-0-N-12DW 43. 0.028 ORFICED PLUG 44. 3-POS, 4-WAY VALVE, SV08-47D-0-N-12DW, (JIB) 45. RELIEF VALVE CRO8A-O-N-30/19 SET AT 2200 PSI 46. COUNTERBALANCE CARTRIDGE, 7:1 @ 2500 PSI 47. COUNTERBALANCE CARTRIDGE, 3:1 @ 3000 PSI, NON-VENTED SPRING 48. CHECK VALVE CV08-20-0-N-60 (SET AT 60 PSI) 49. RELIEF VALVE, CRO8A-O-N-30/30 SET AT 3000 PSI 50. PUMP, HP10-21A-0-N-30 								G
F									F
E									E
D									D
C									C
B									B
A									A
	8	7	6	5	4	3	2	1	

SHT-4 COMPONENT LIST

SHEET 4 OF 4
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1.3 E600/M600/EC600SJ/H600SJ/EC600SJP/H600SJP

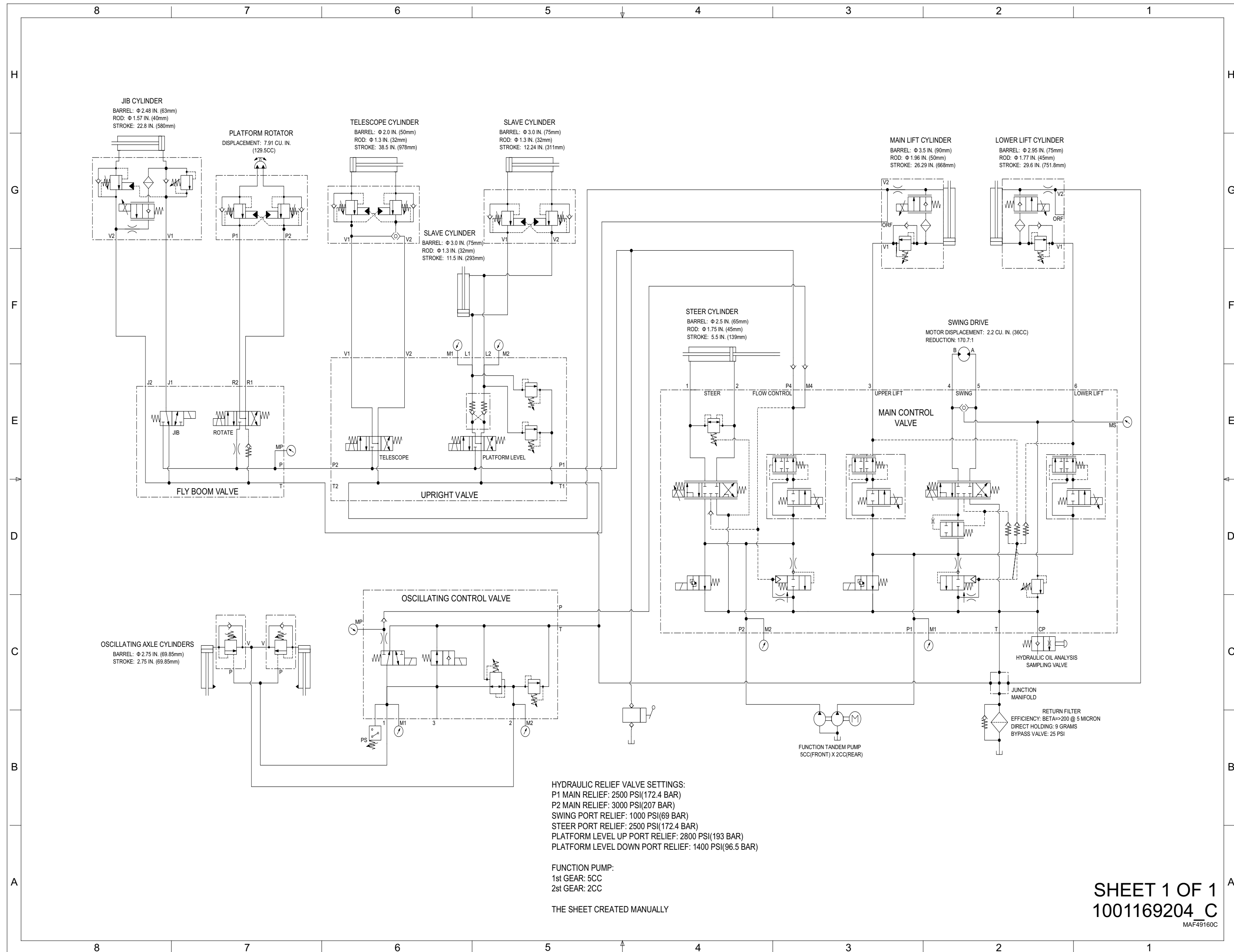
1.3.1 PVC 2001/PVC 2007



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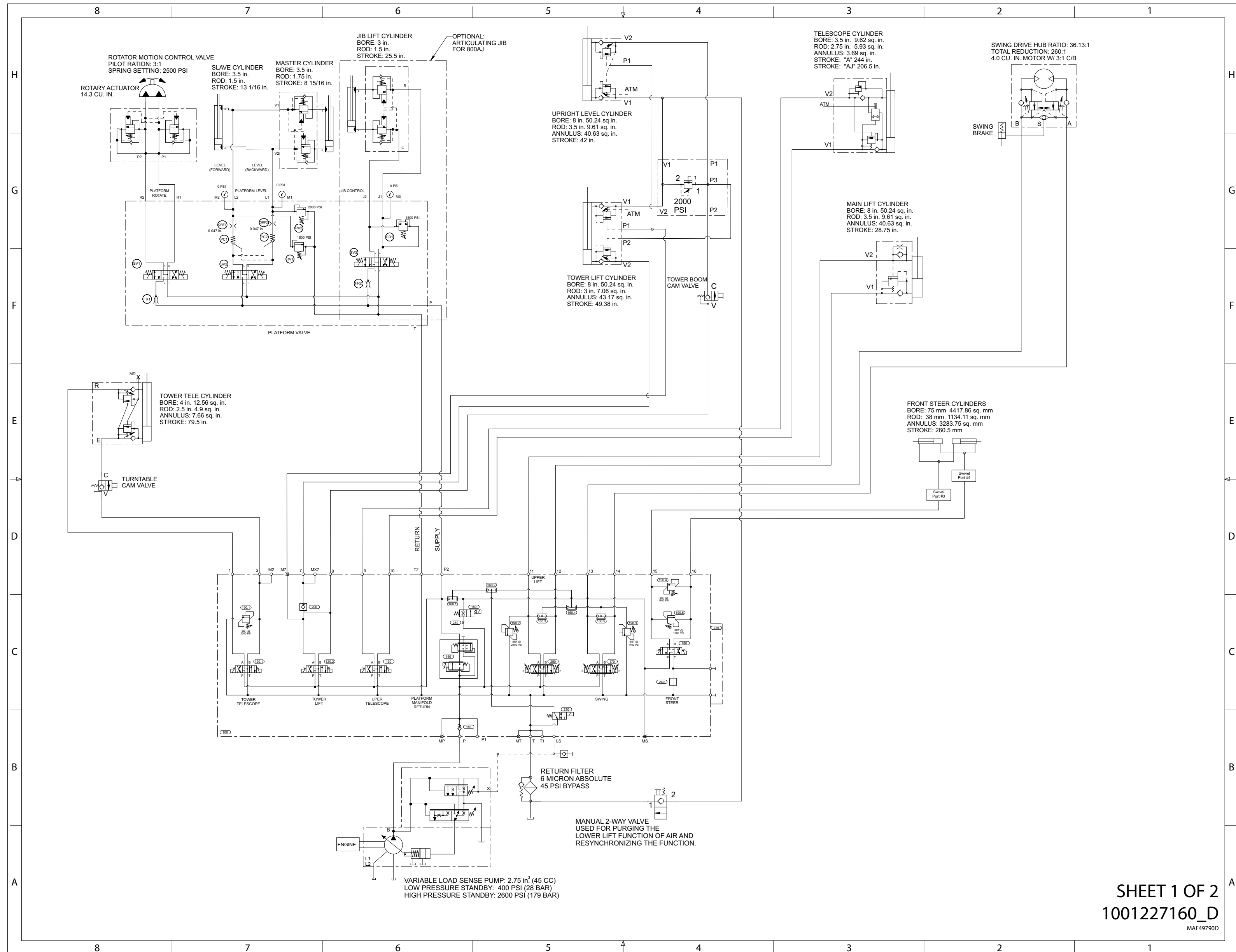
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1.4.1 PVC 2001/PVC 2007

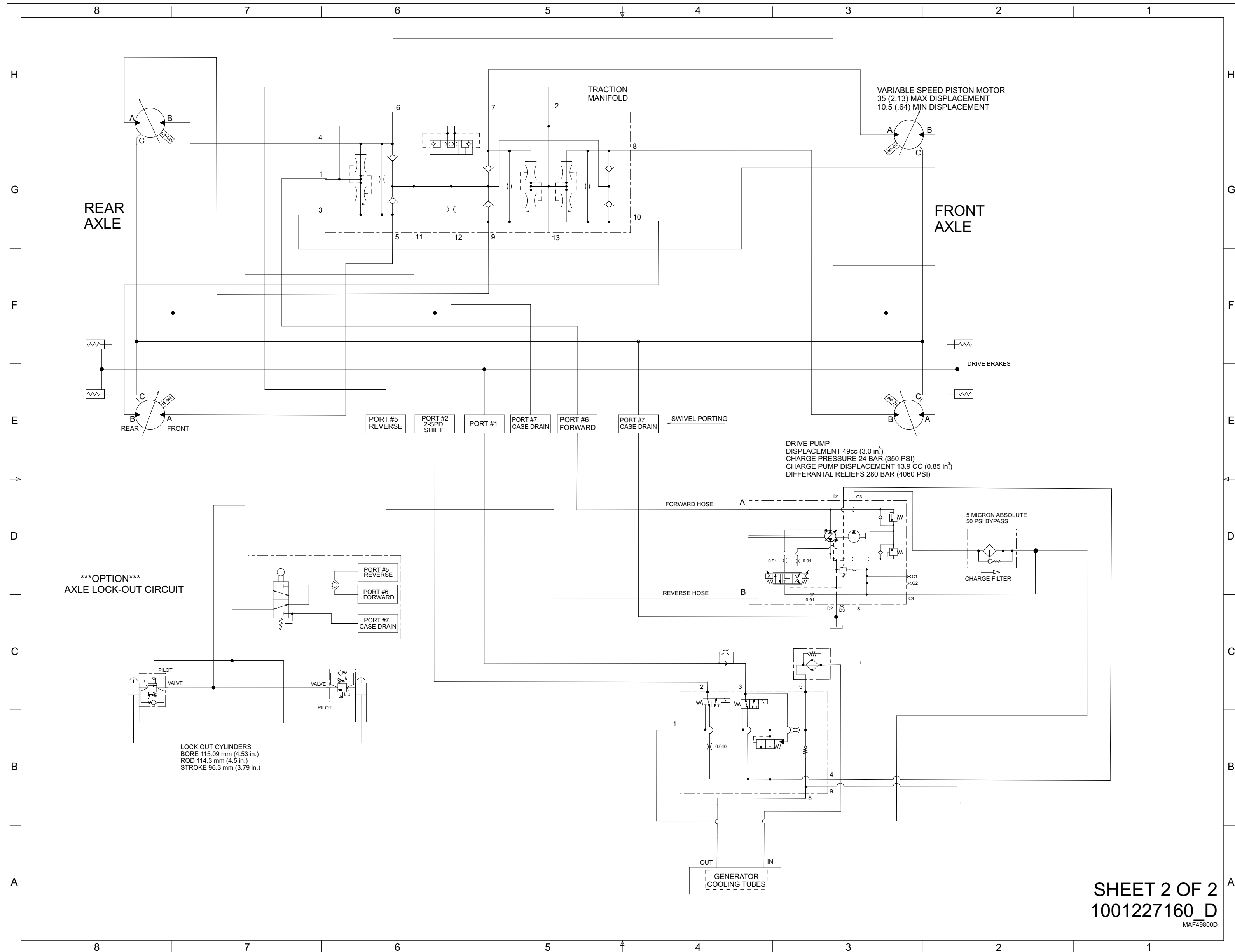


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1.5.1 PVC 2001/PVC 2007

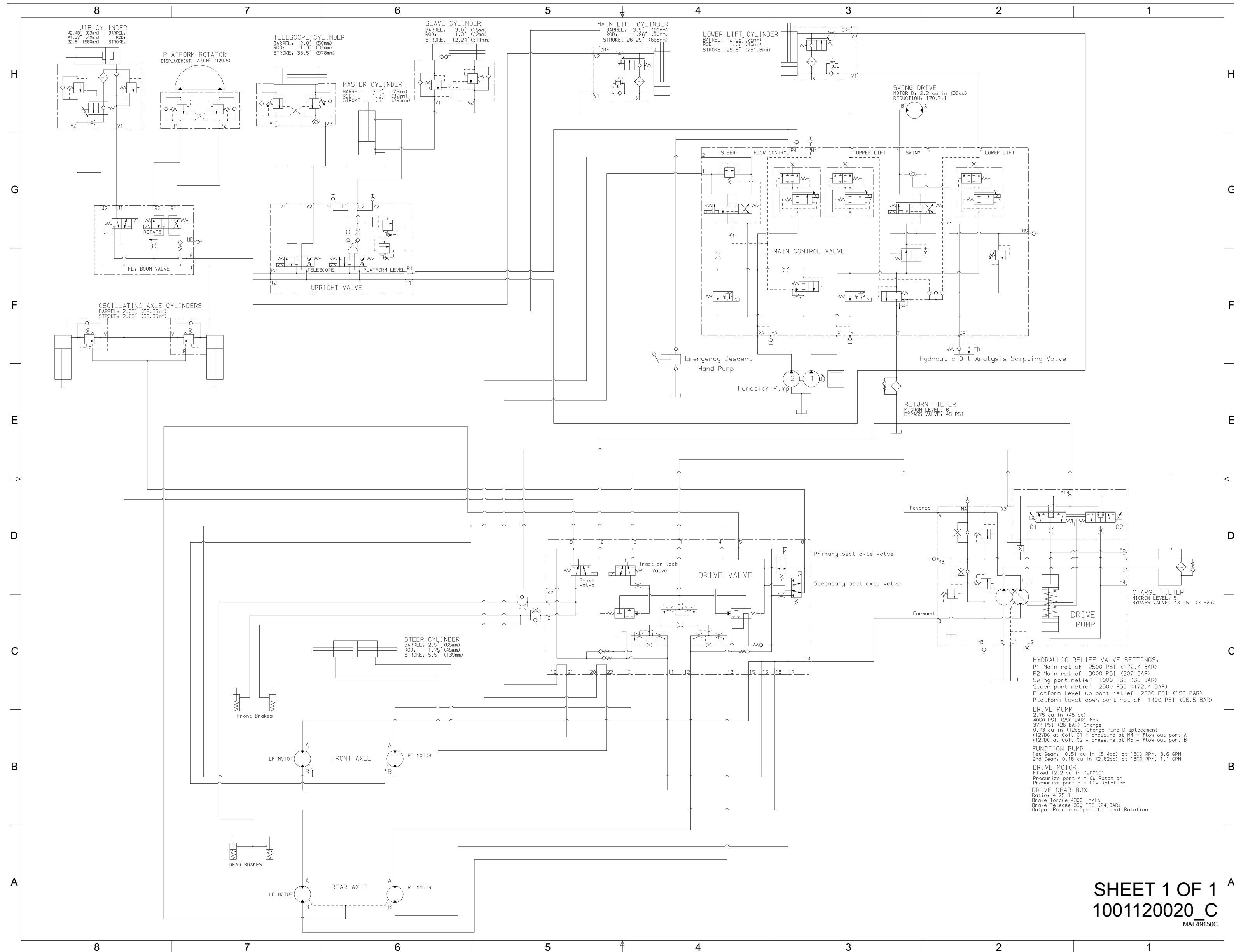


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1.6 340AJ

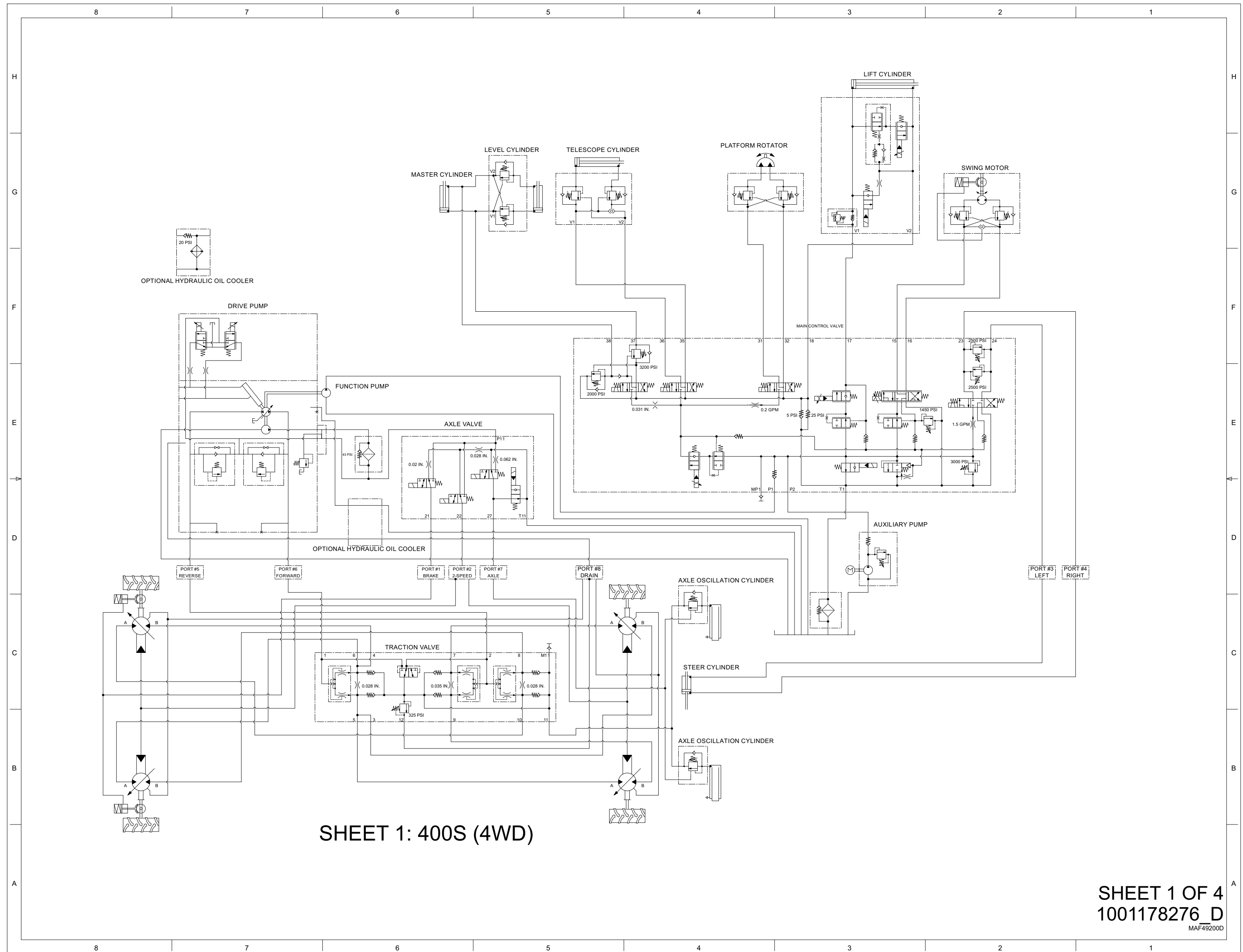
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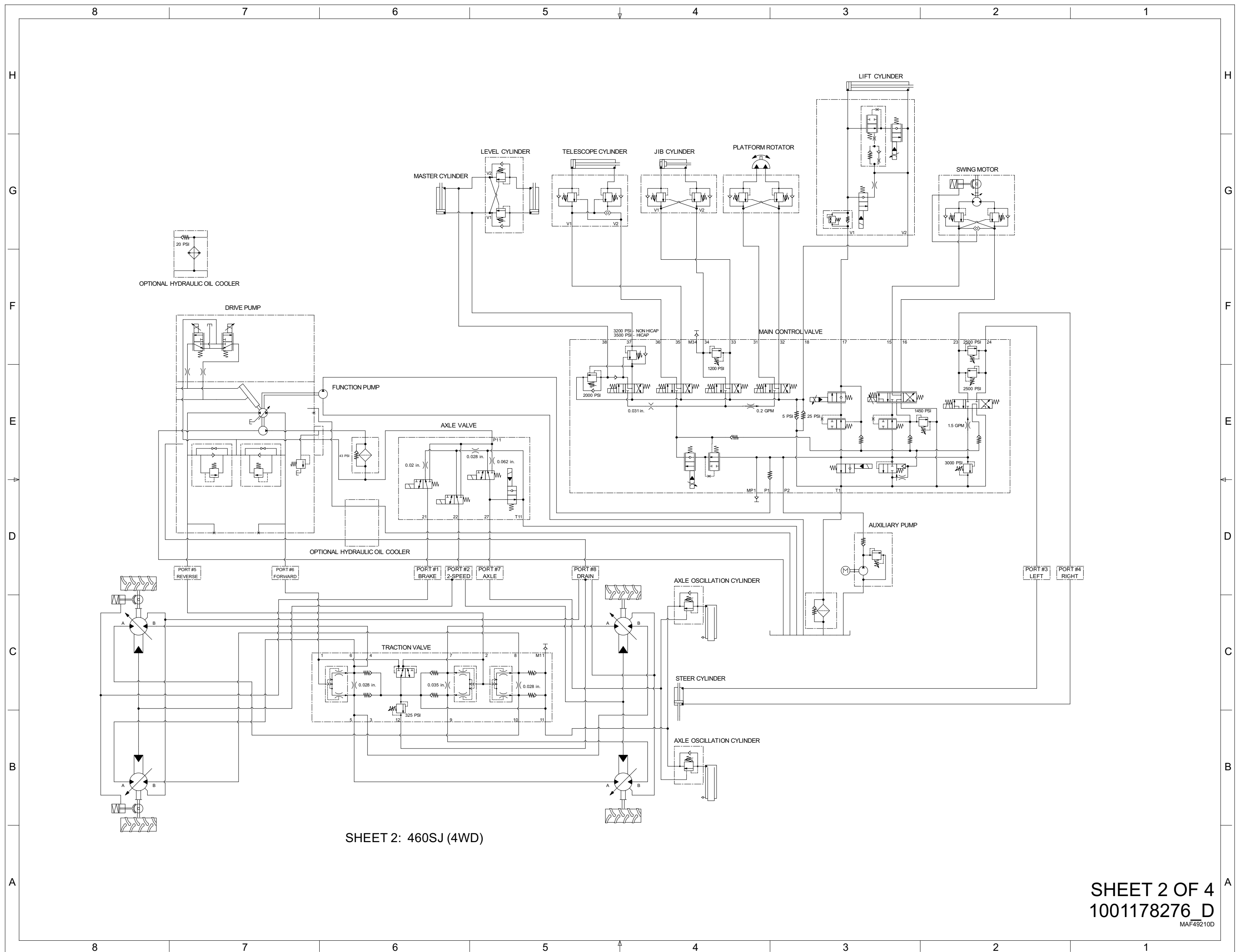


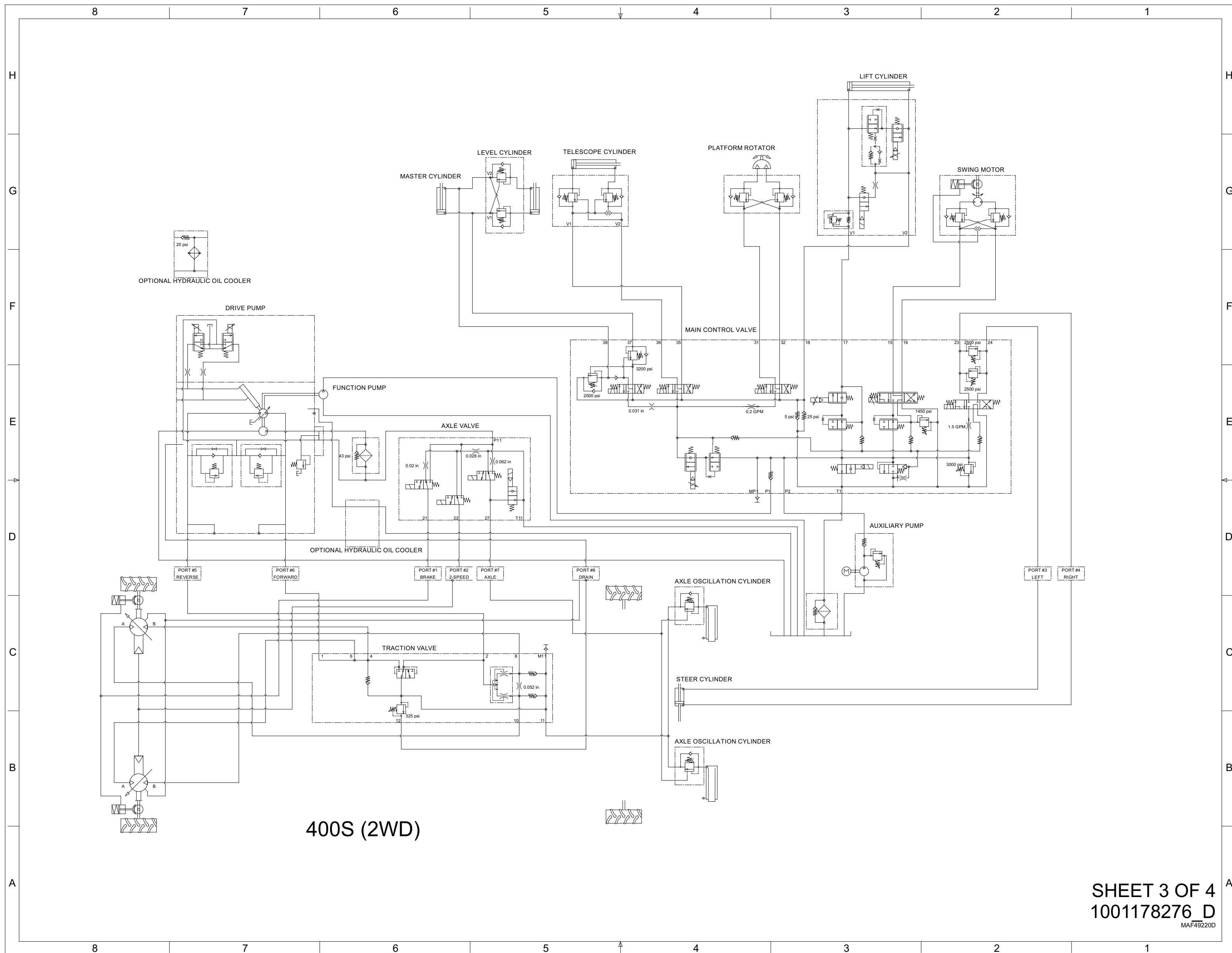
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1.7 400S/460SJ/400S HC3/460SJ HC3

1.7.1 PVC 2001

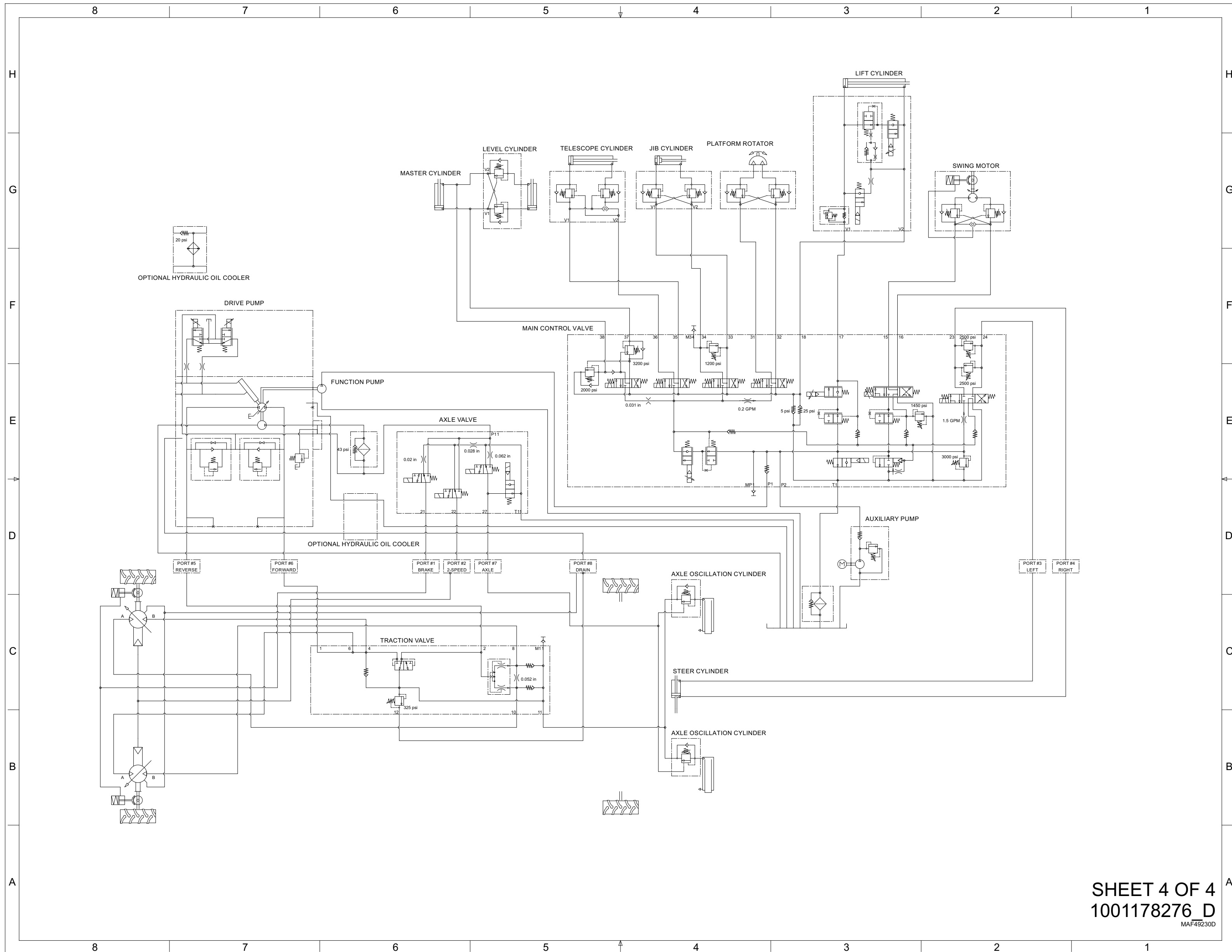




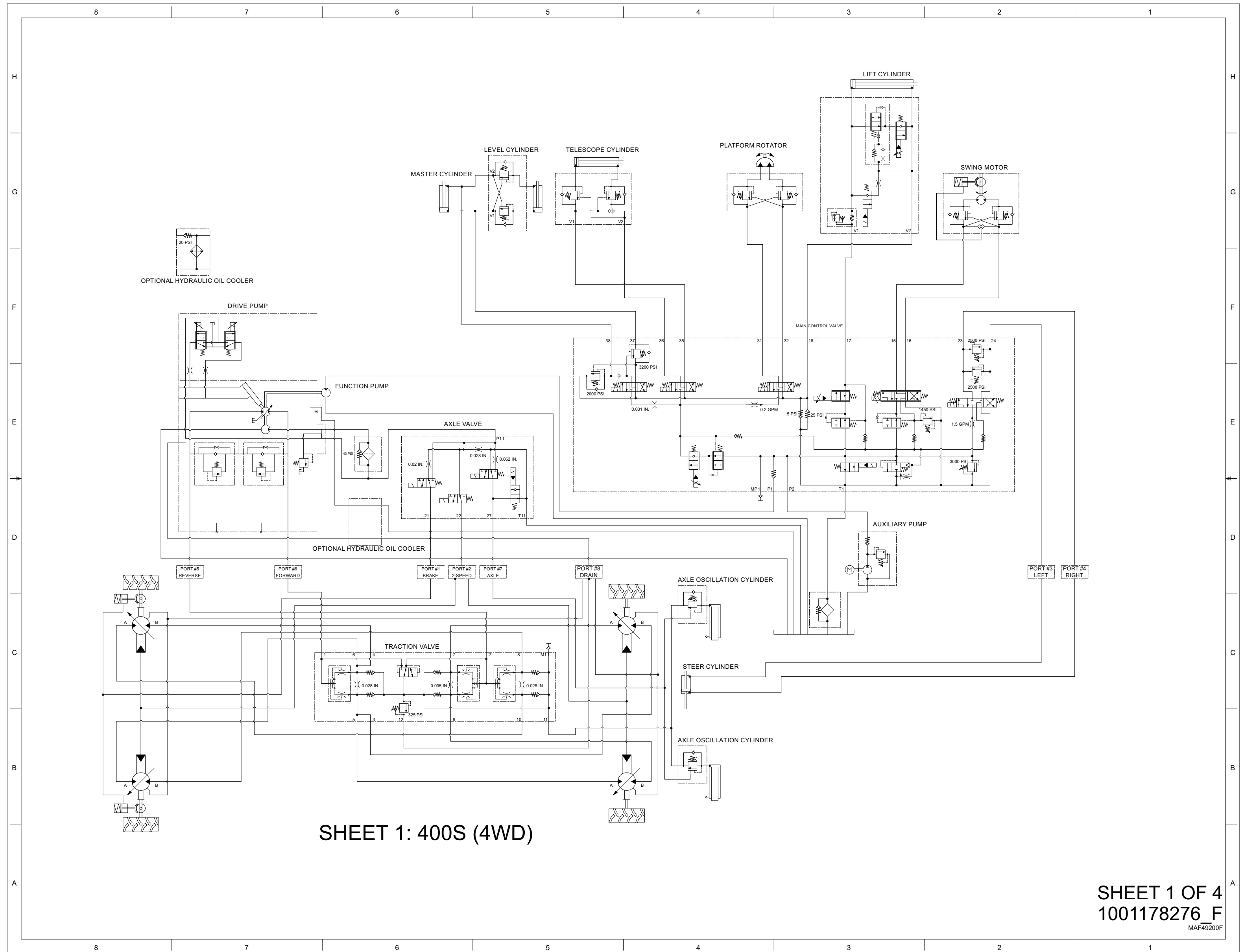


400S (2WD)

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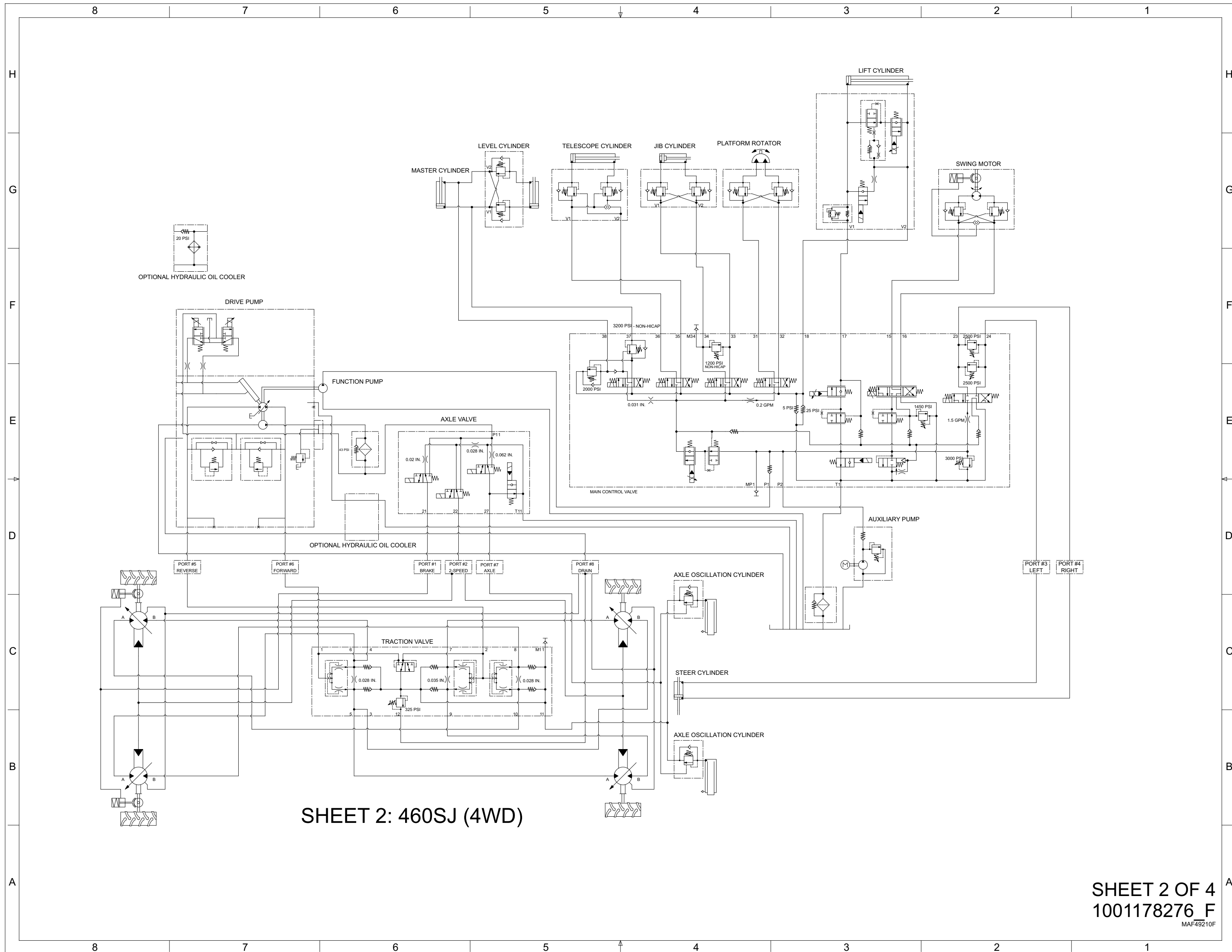


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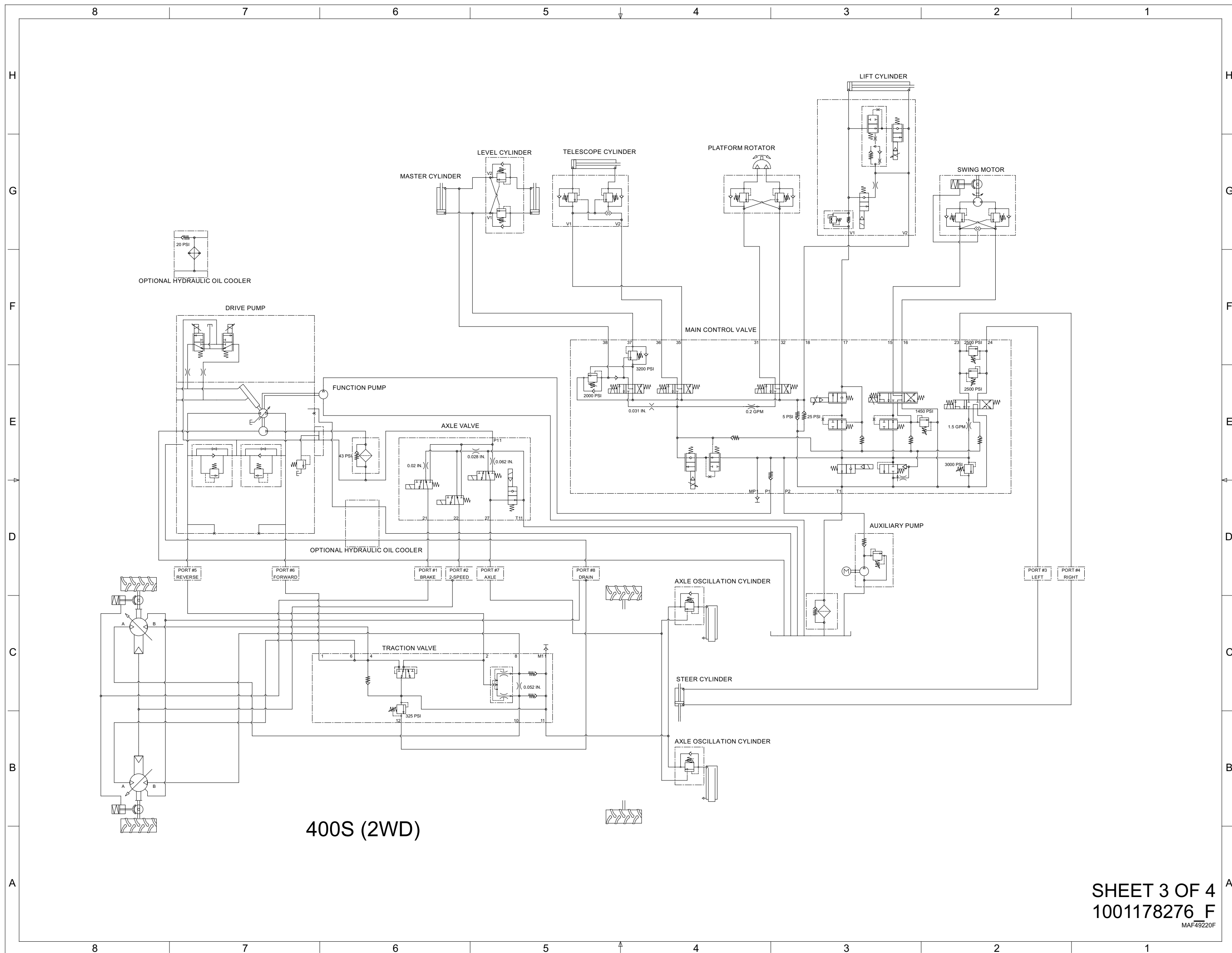
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SHEET 1 OF 4
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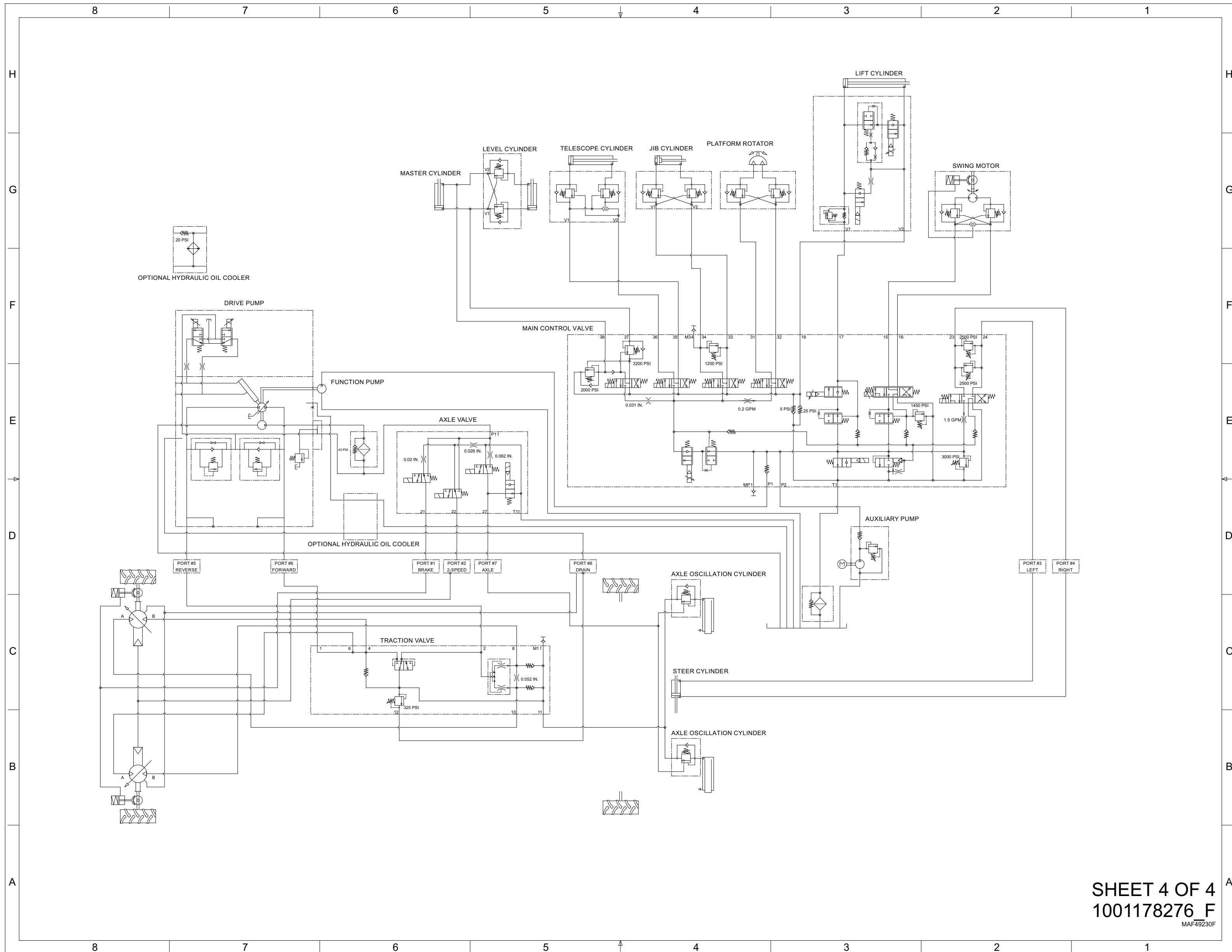
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400S (2WD)

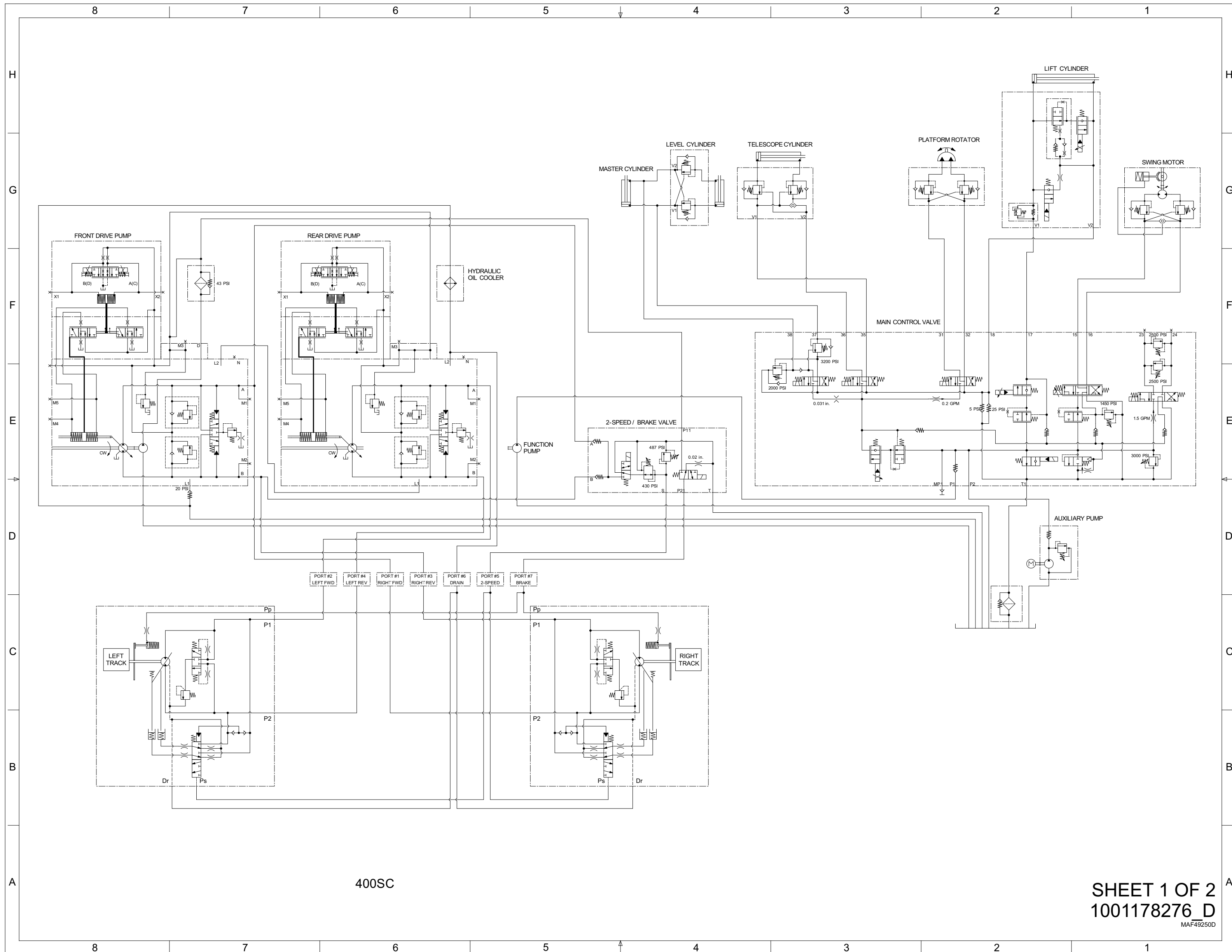
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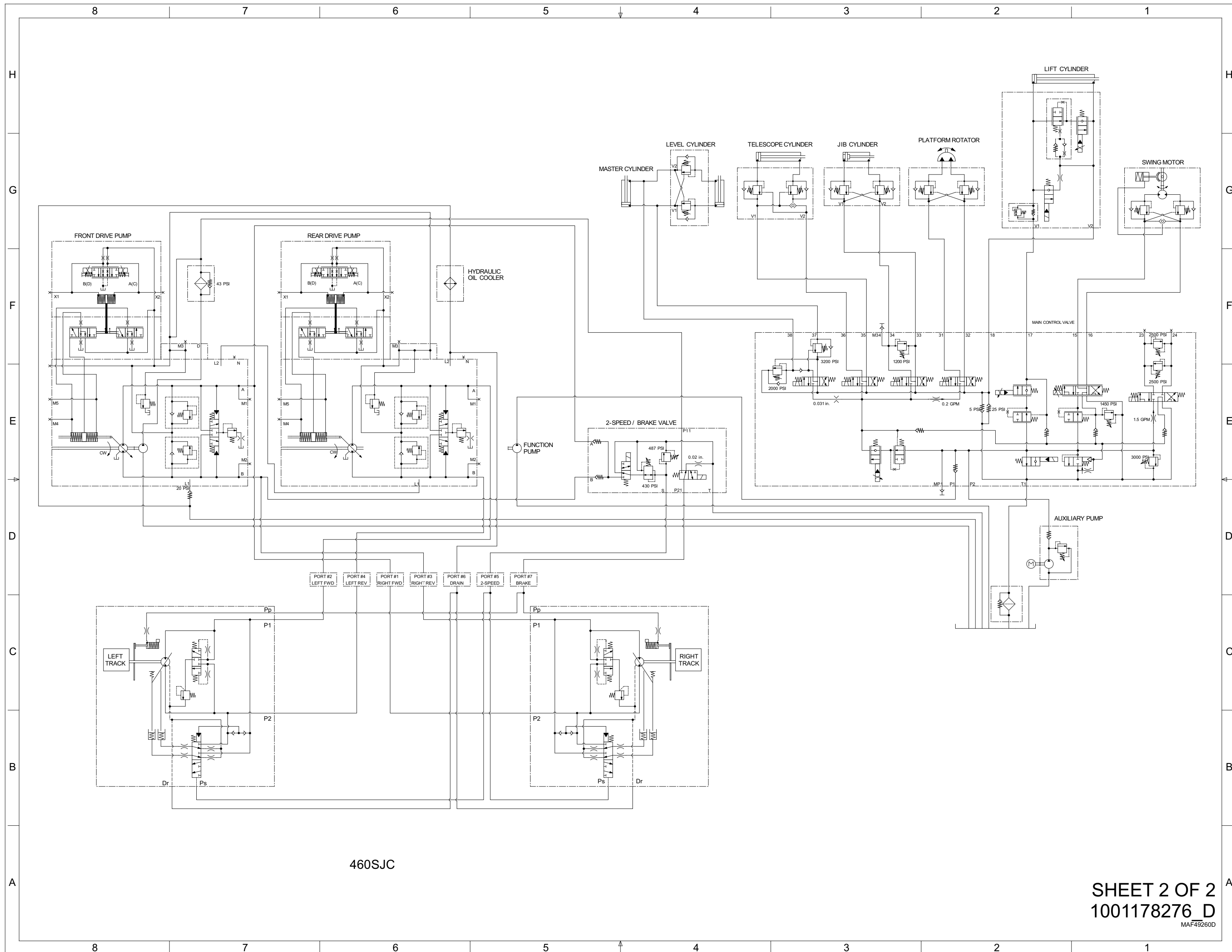


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1.8 400SC/460SJC

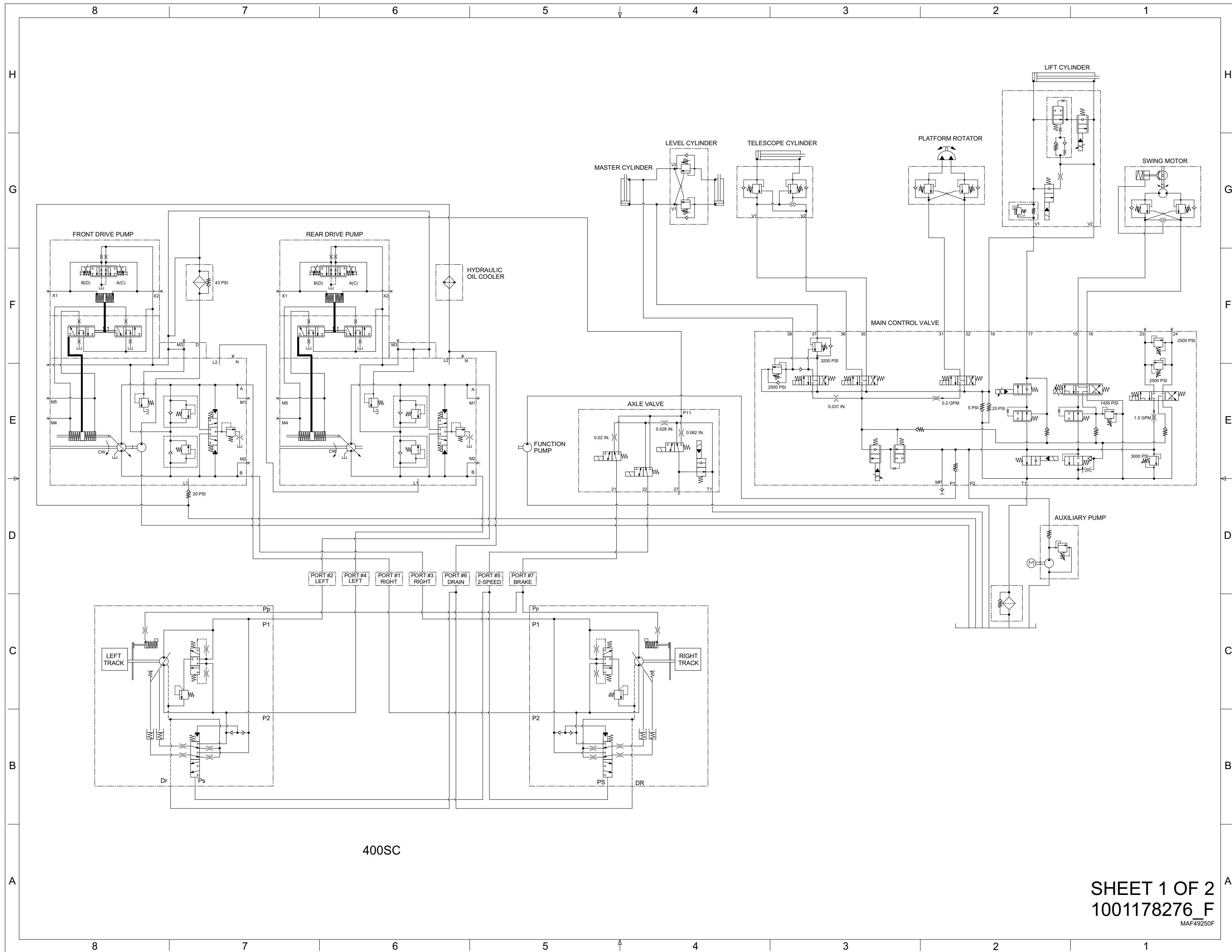
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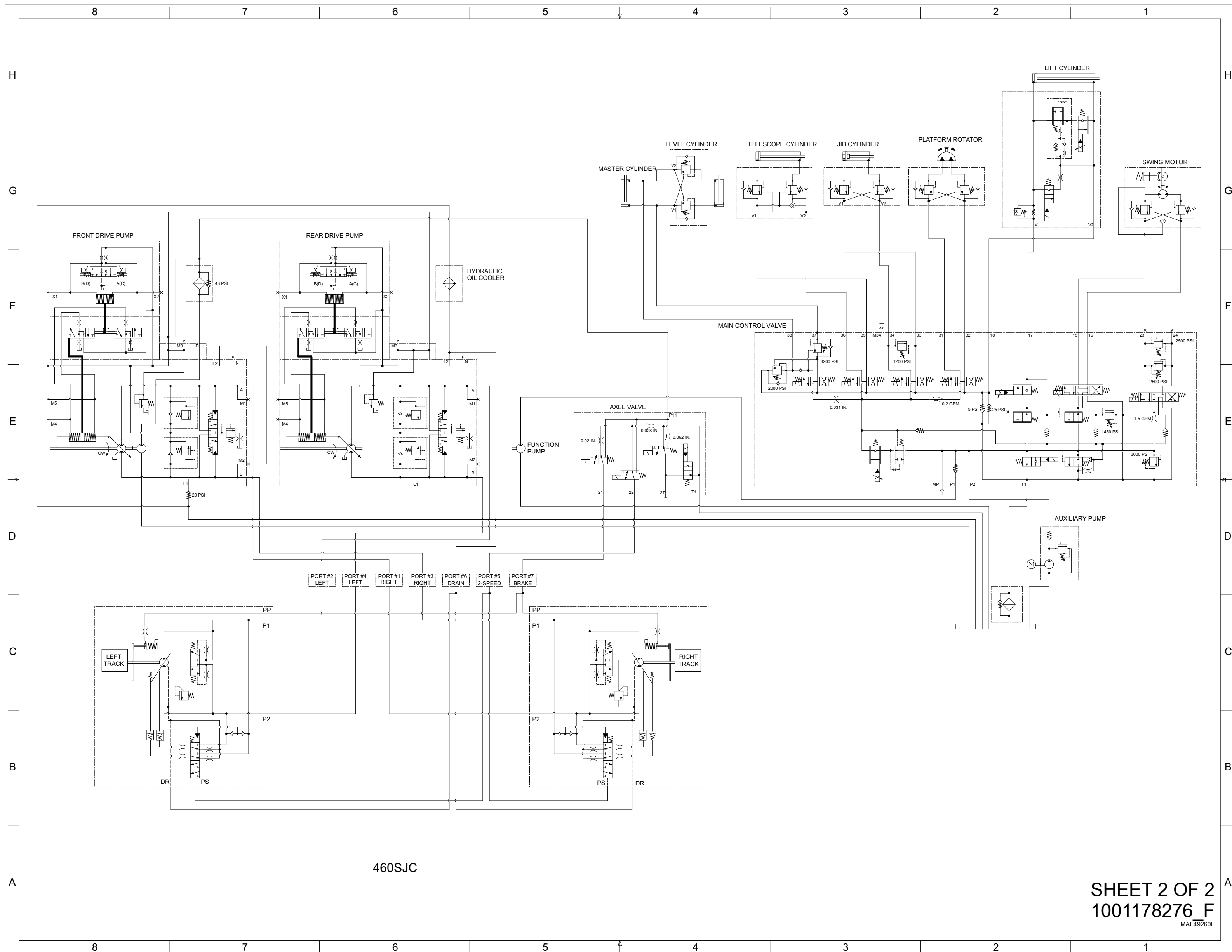


460SJC

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SHEET 1 OF 2
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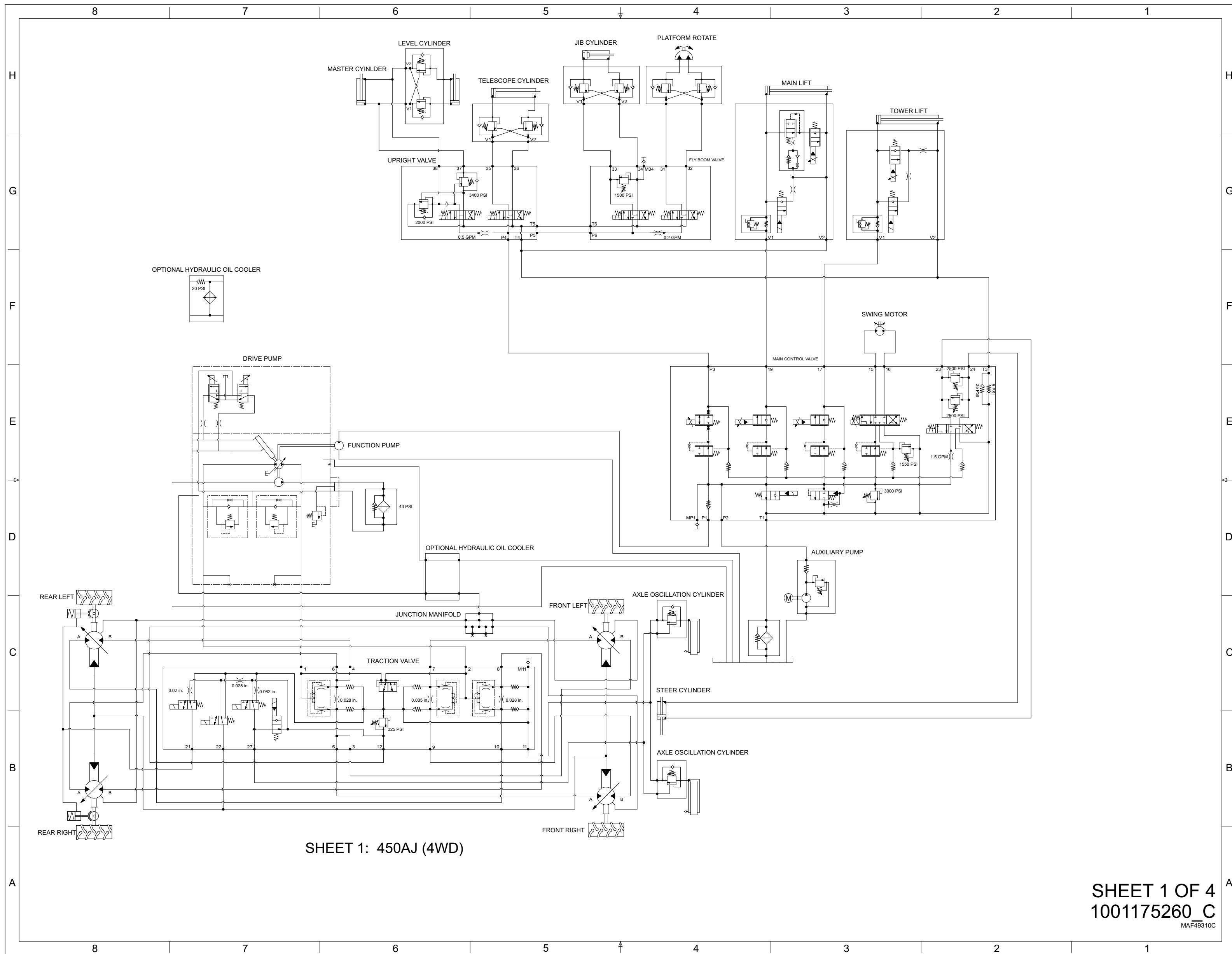


460SJC

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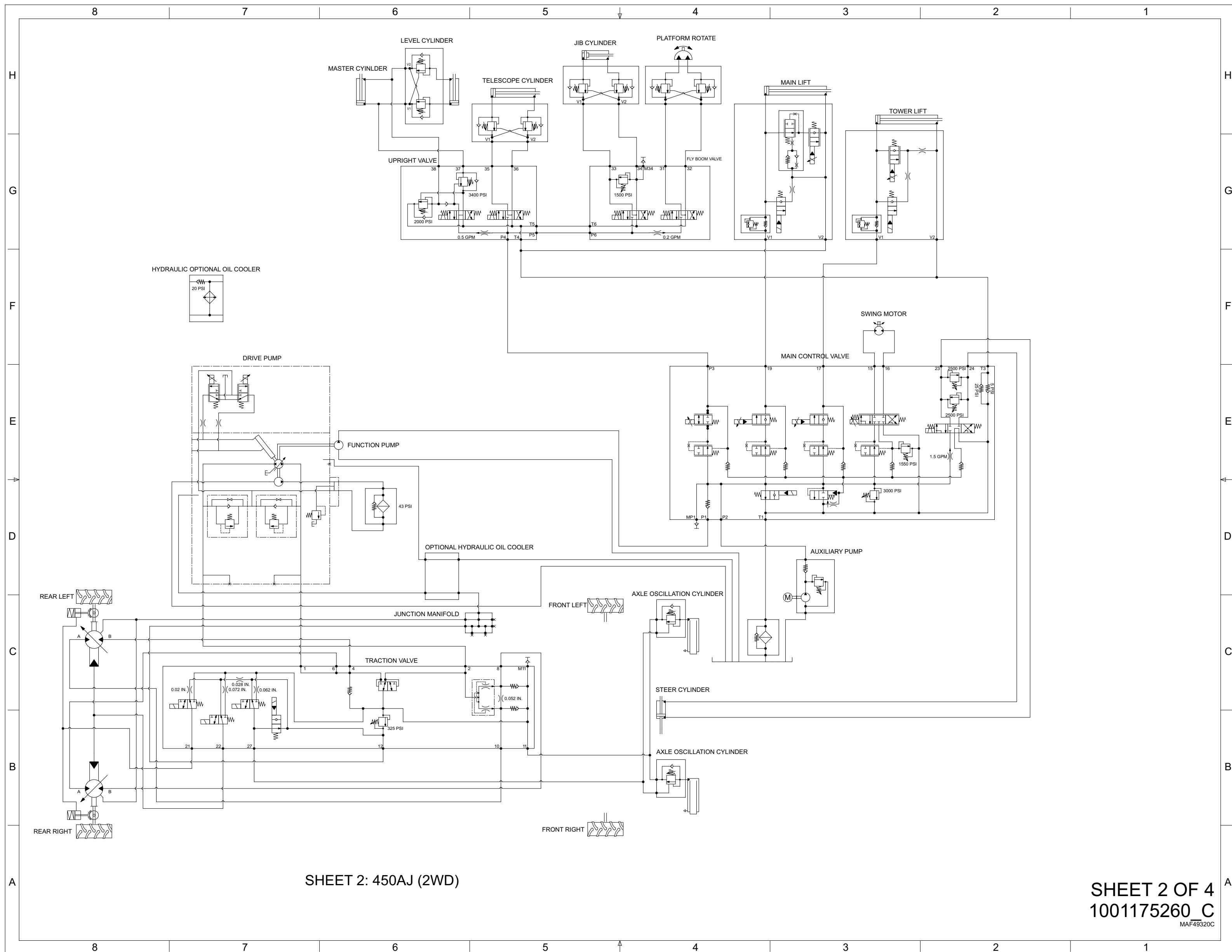
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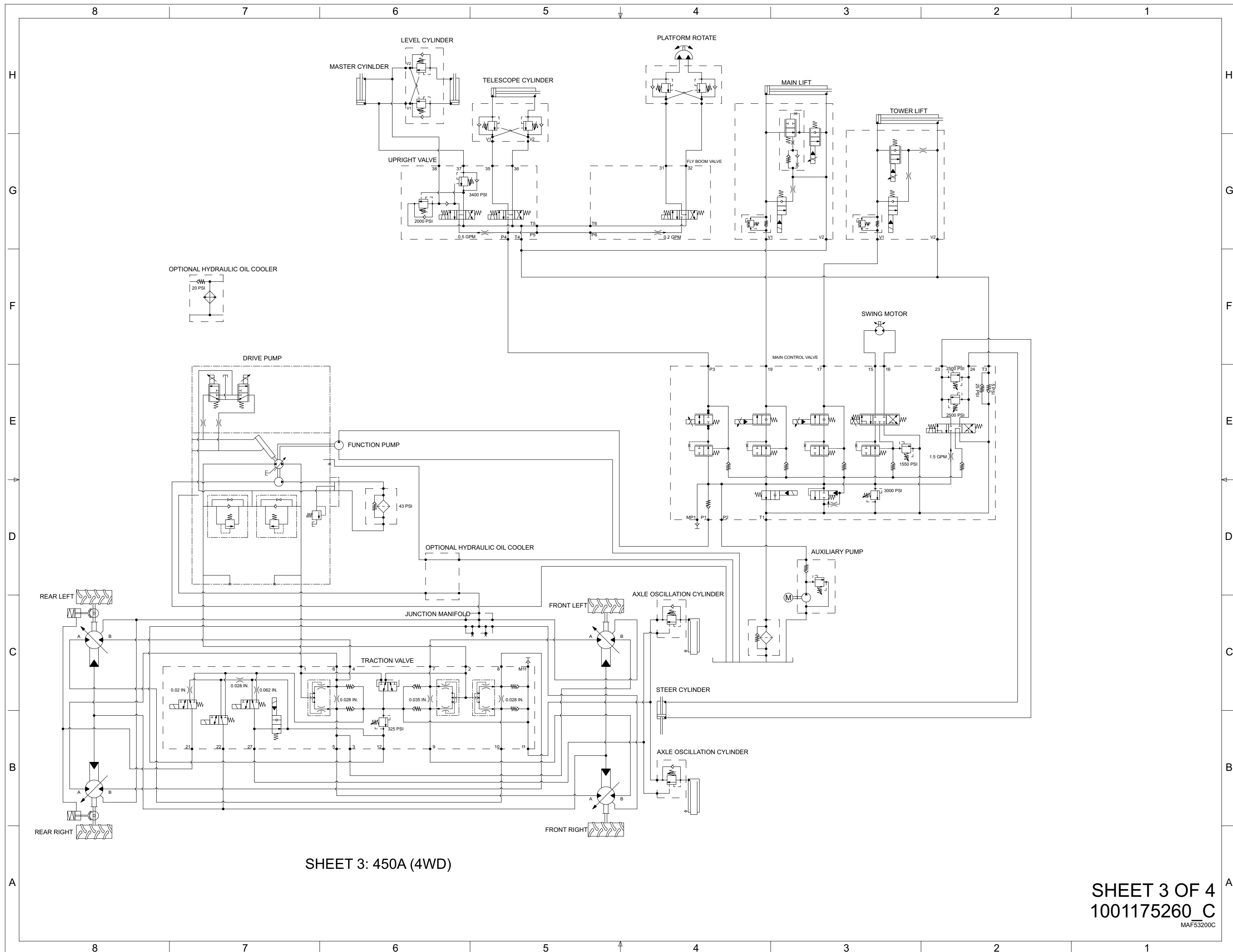
1.9.1 PVC 2001



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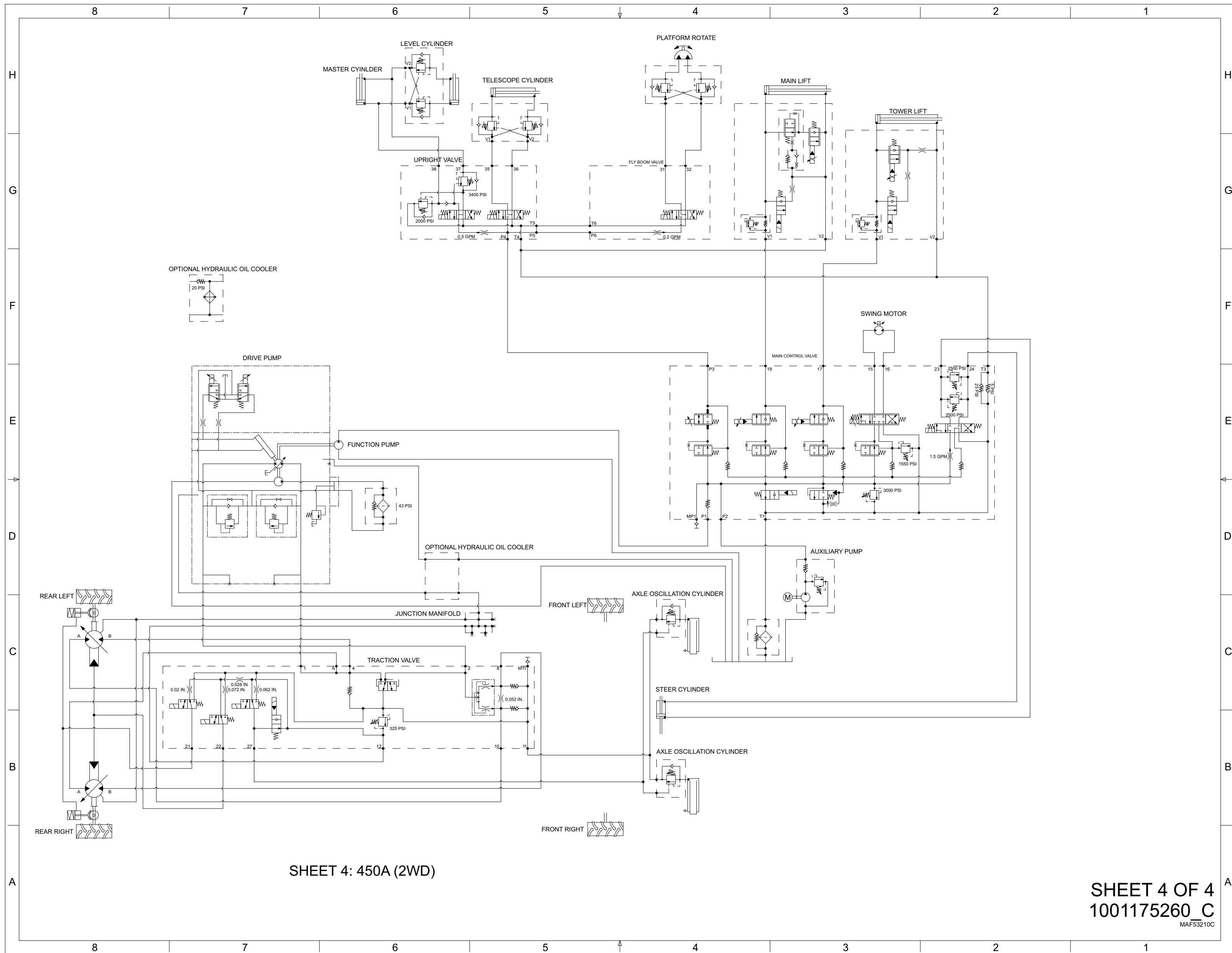
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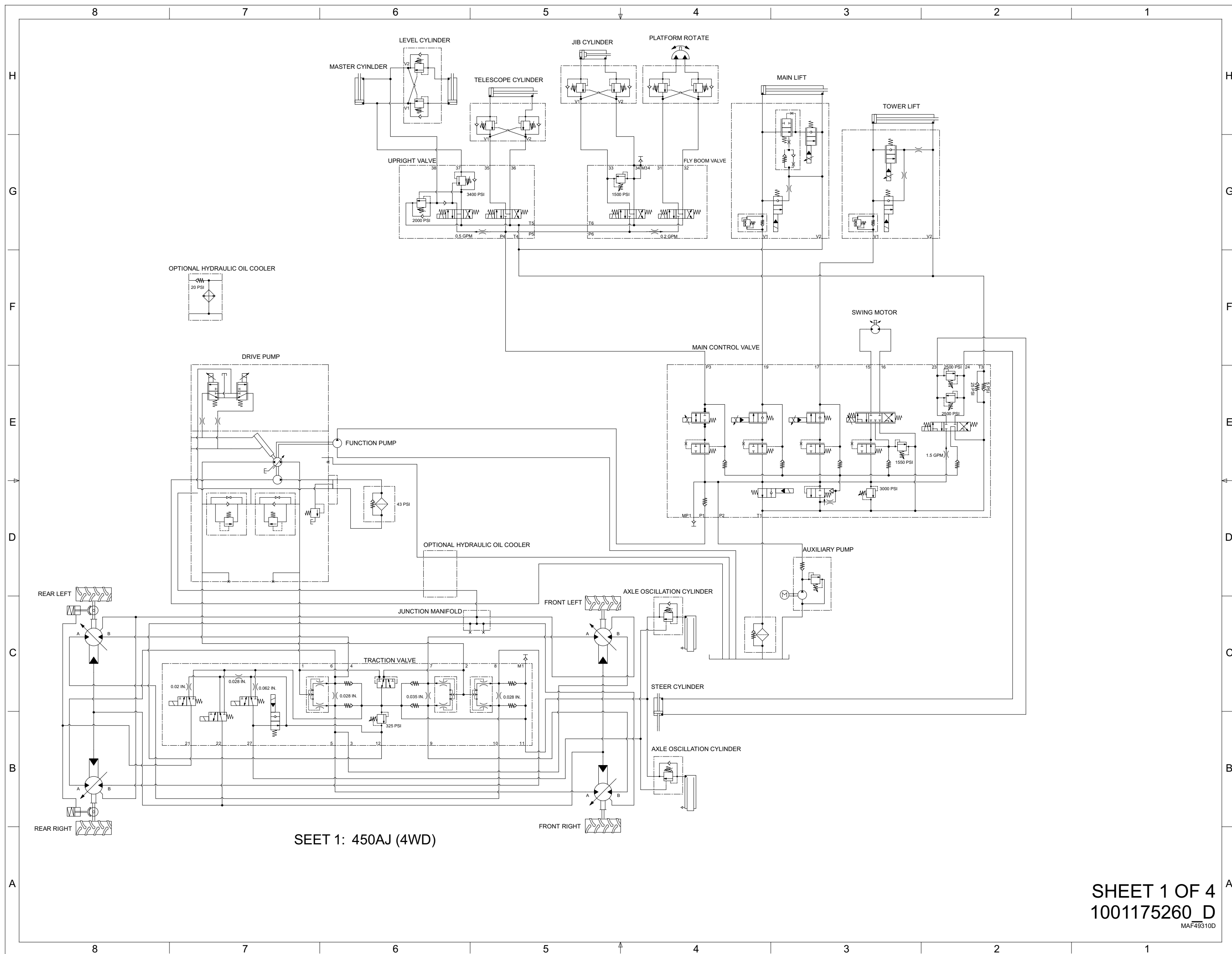
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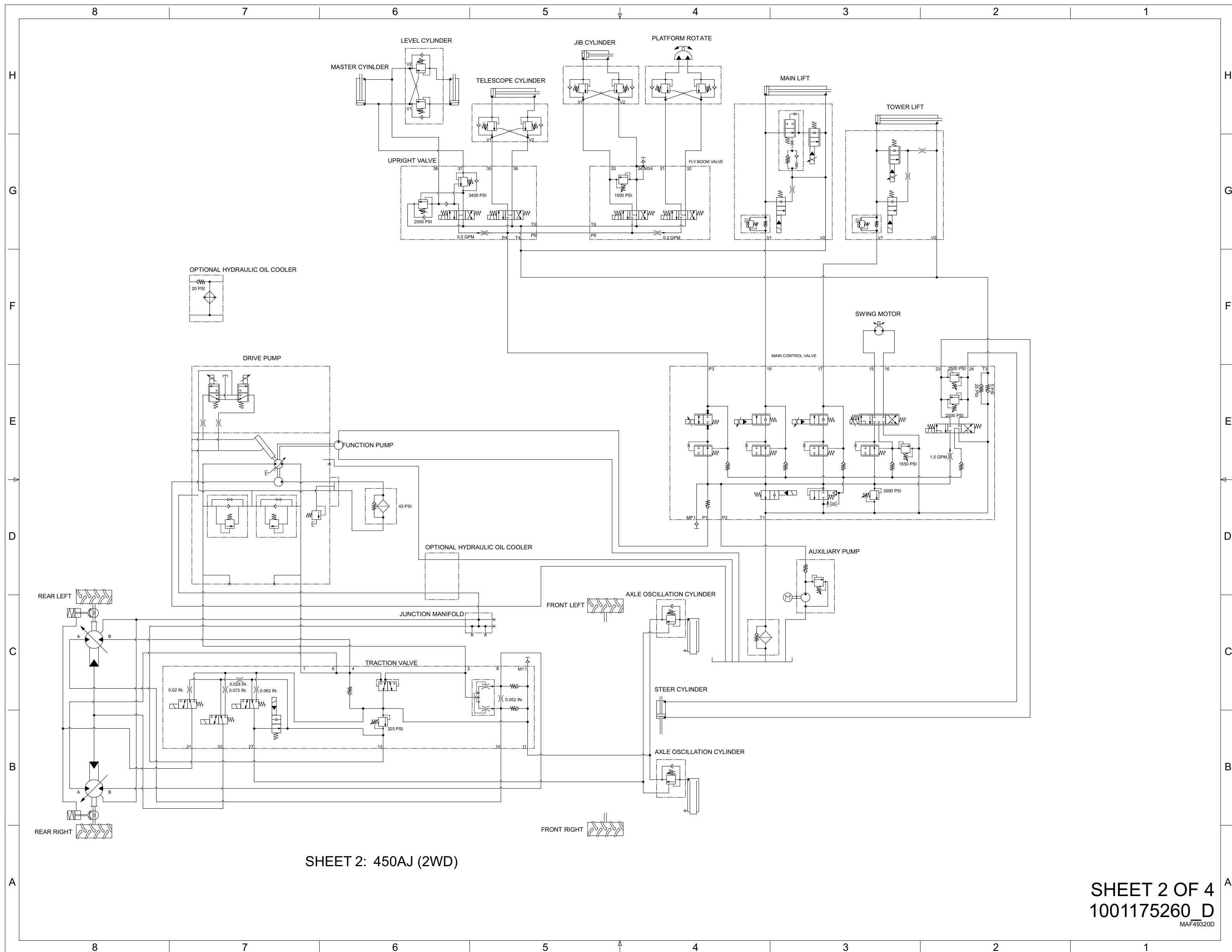
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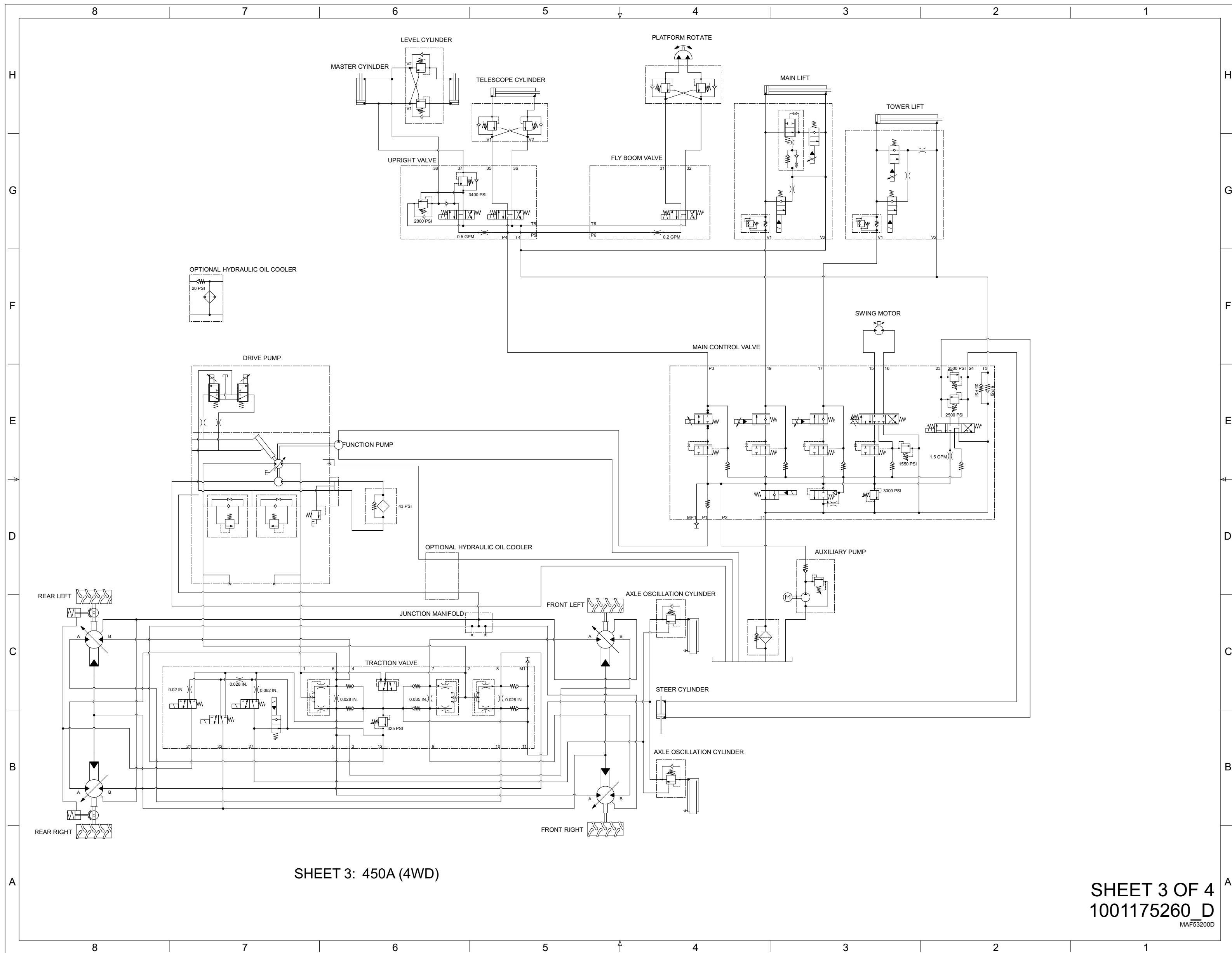
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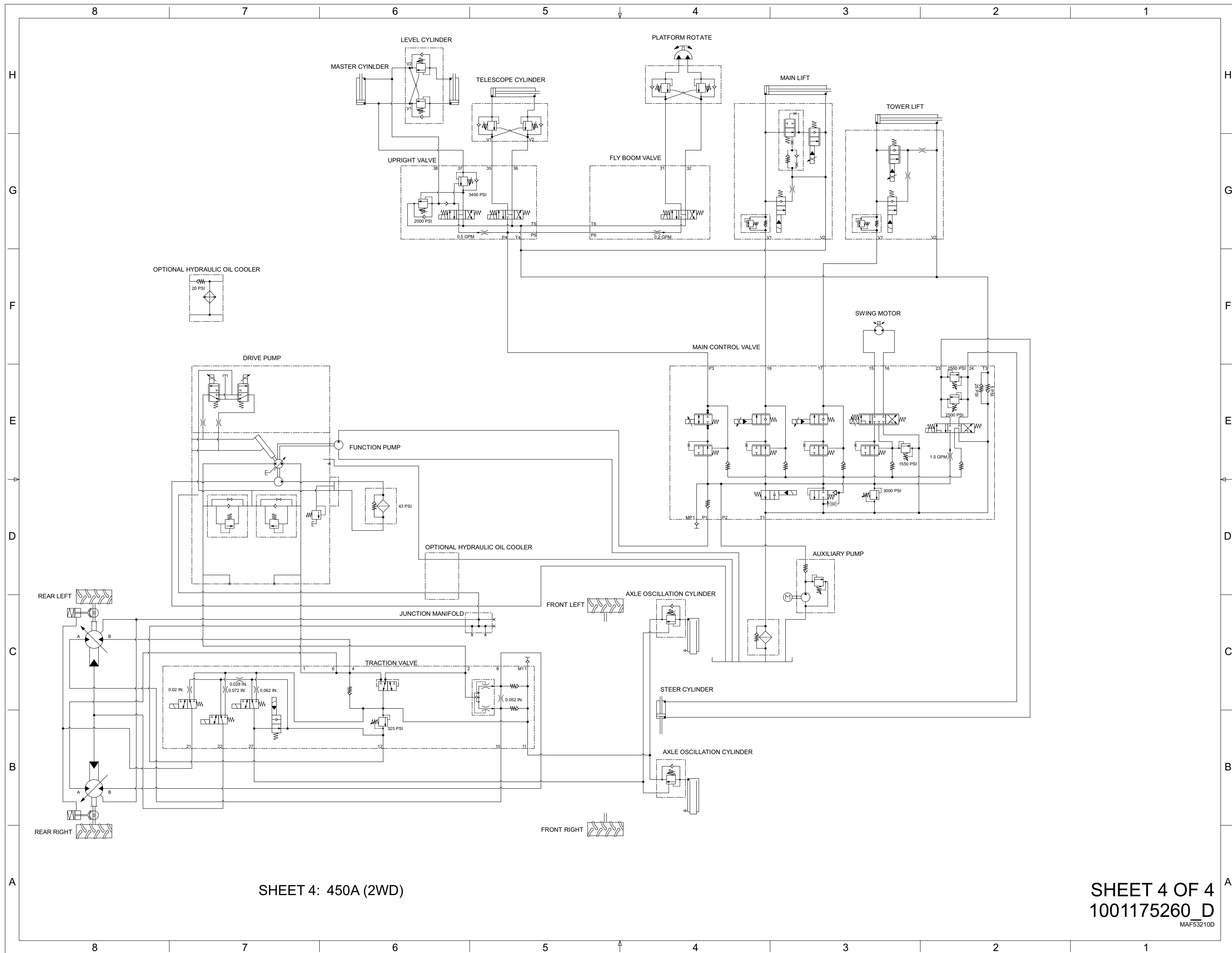




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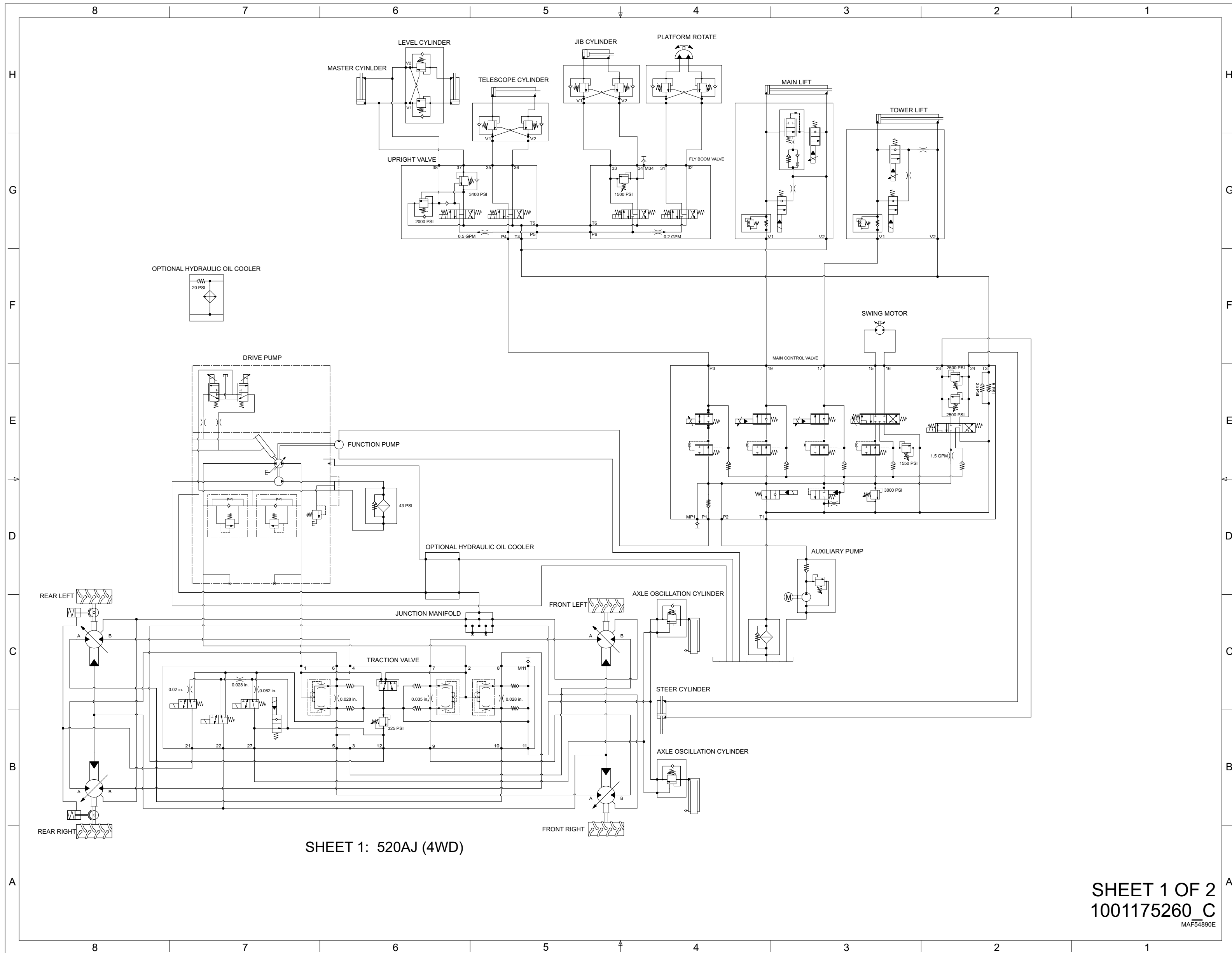
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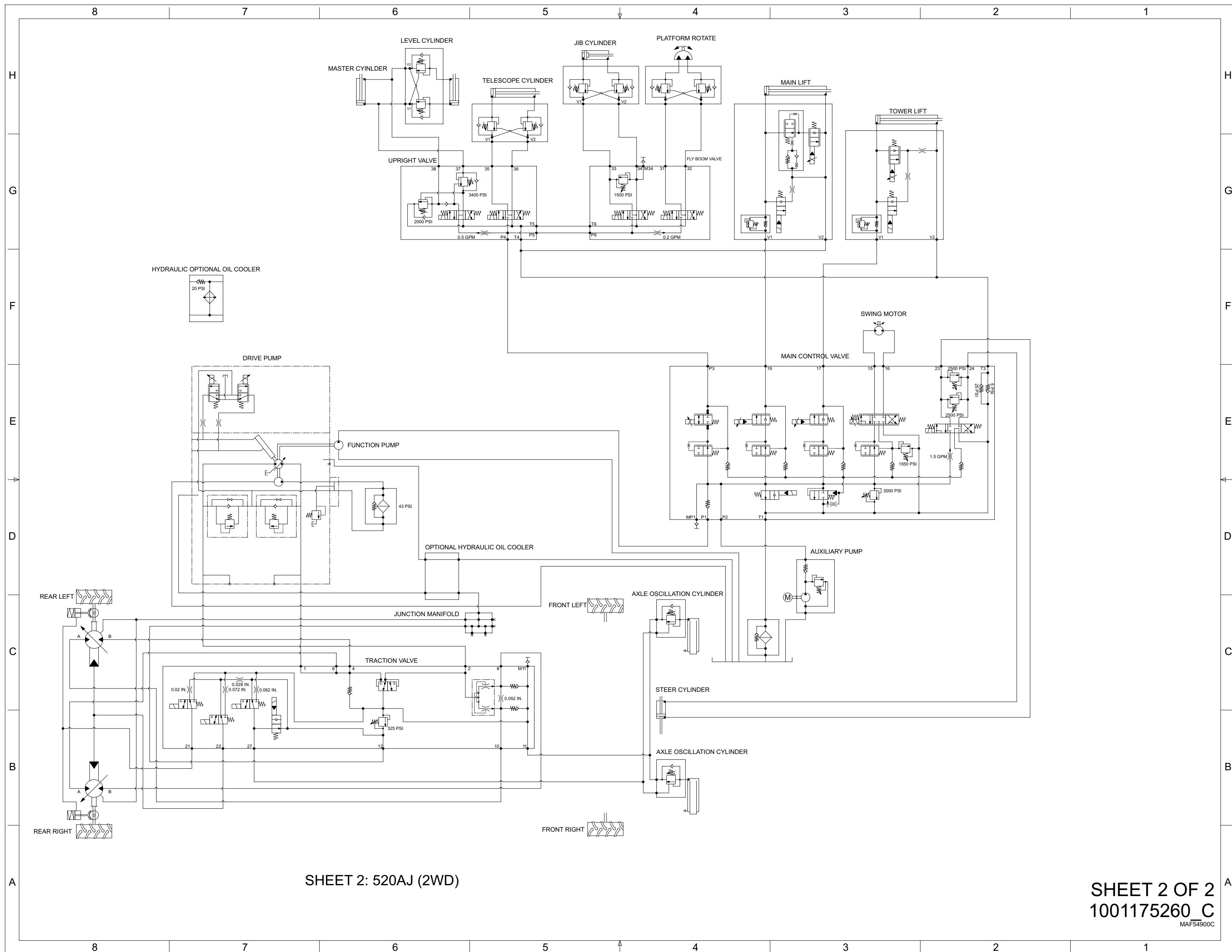




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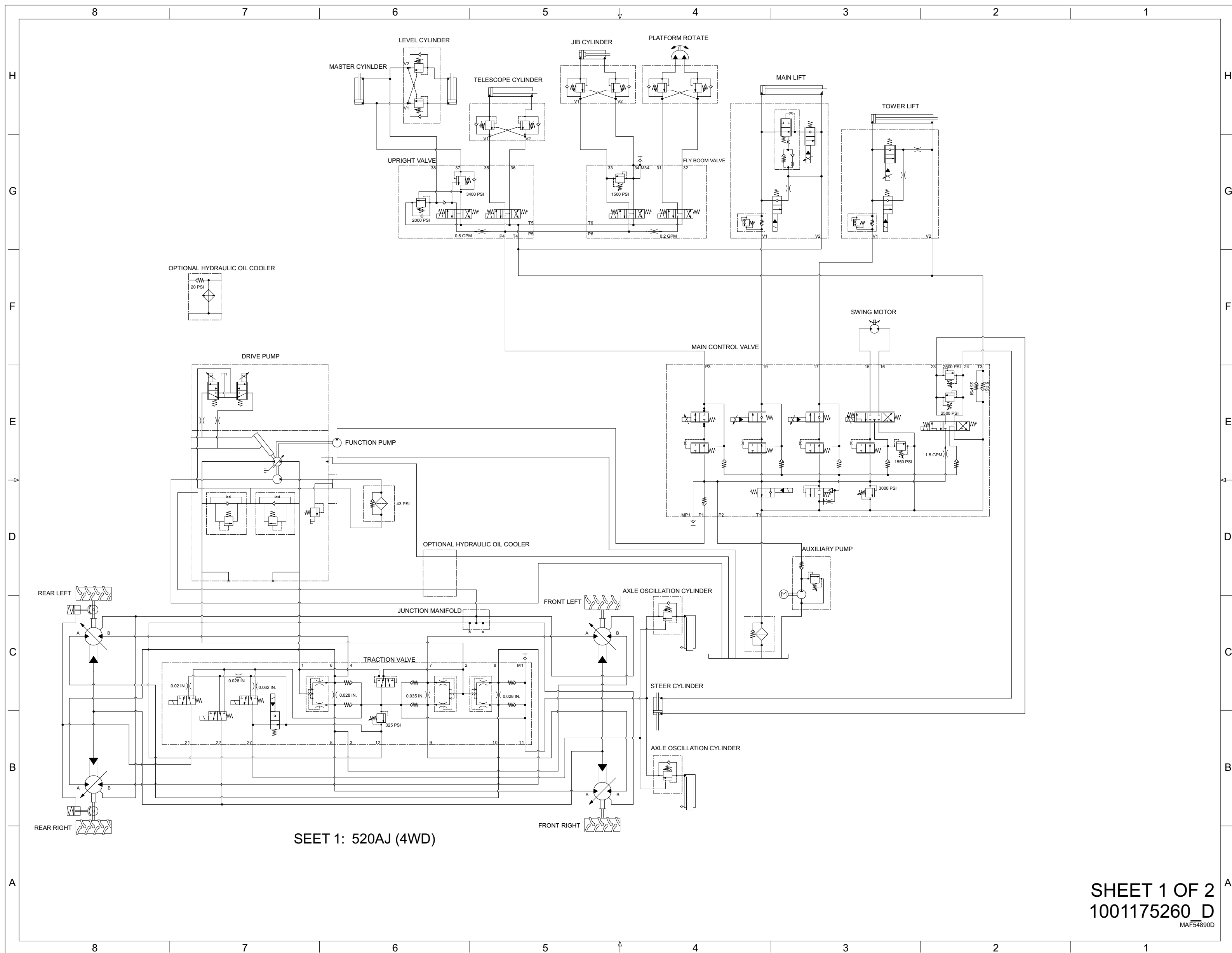
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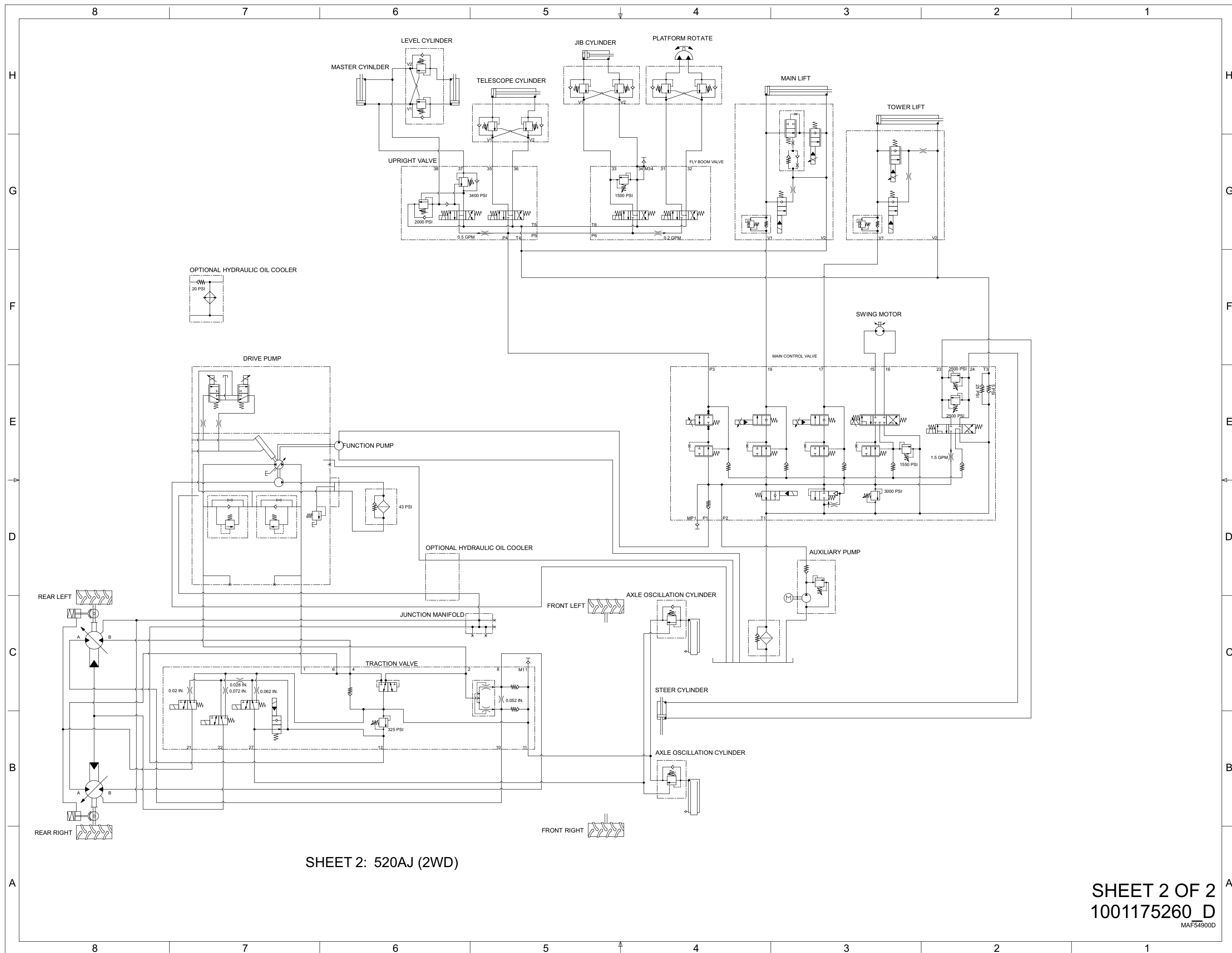




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SHEET 2 OF 2
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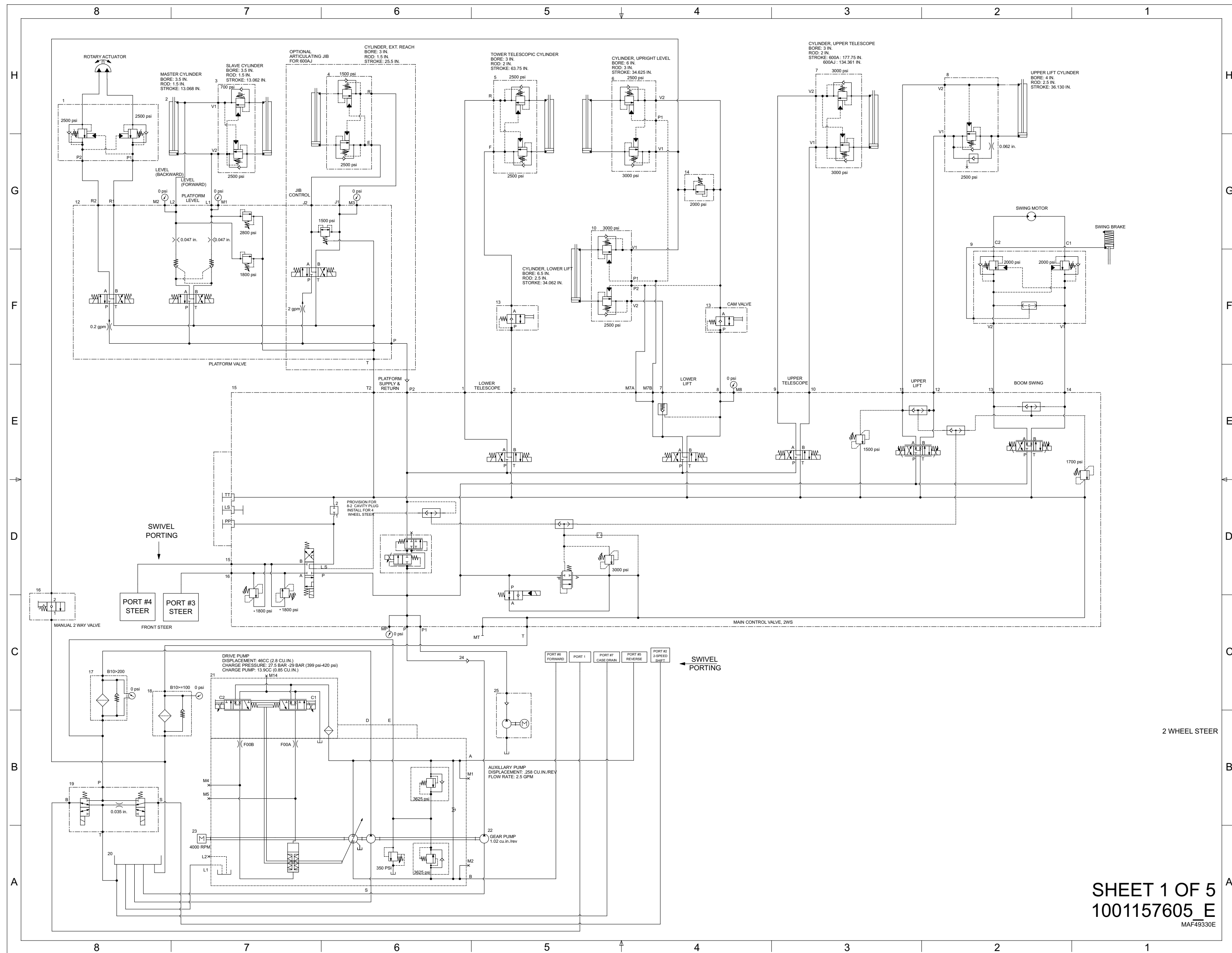


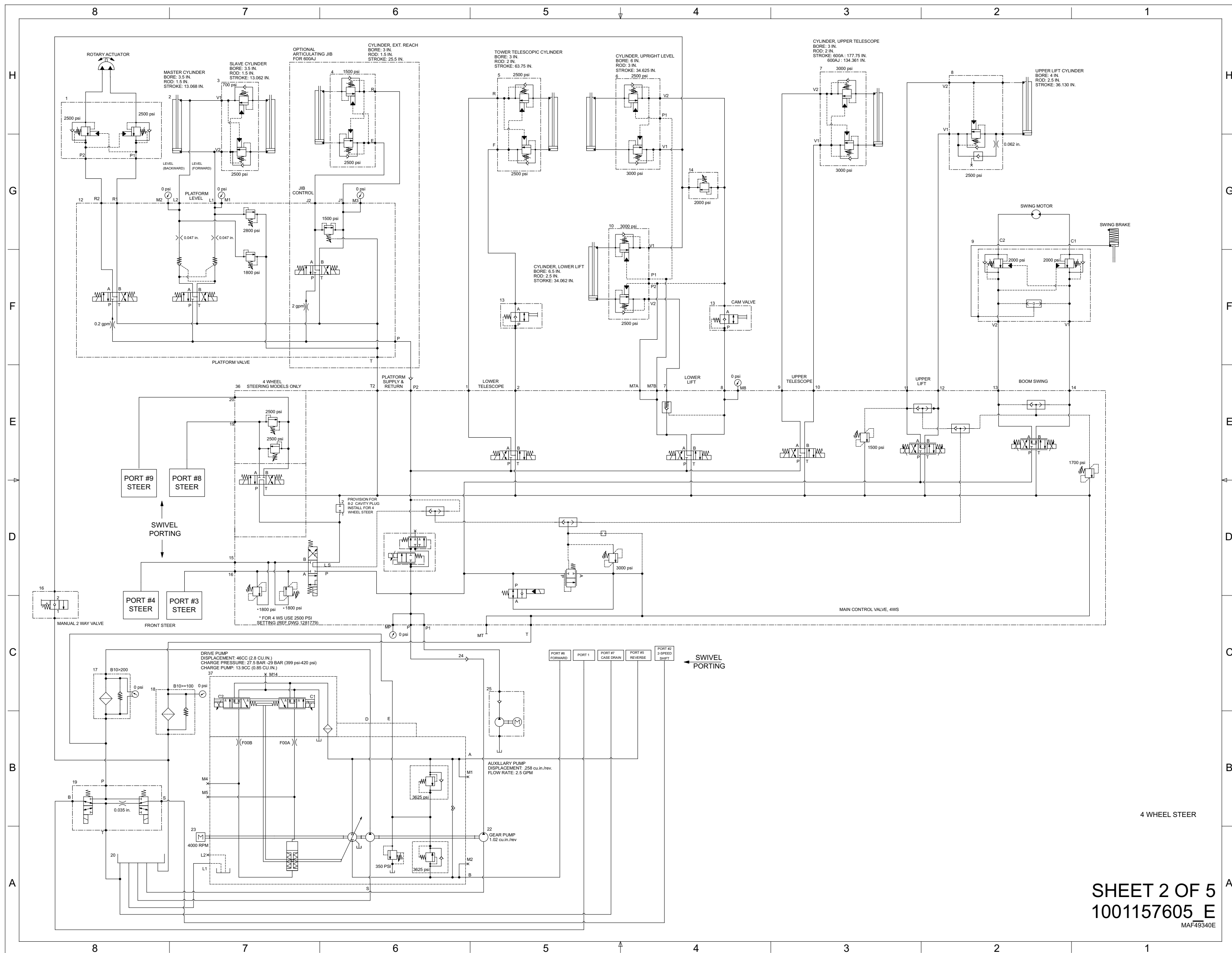
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SHEET 2 OF 2
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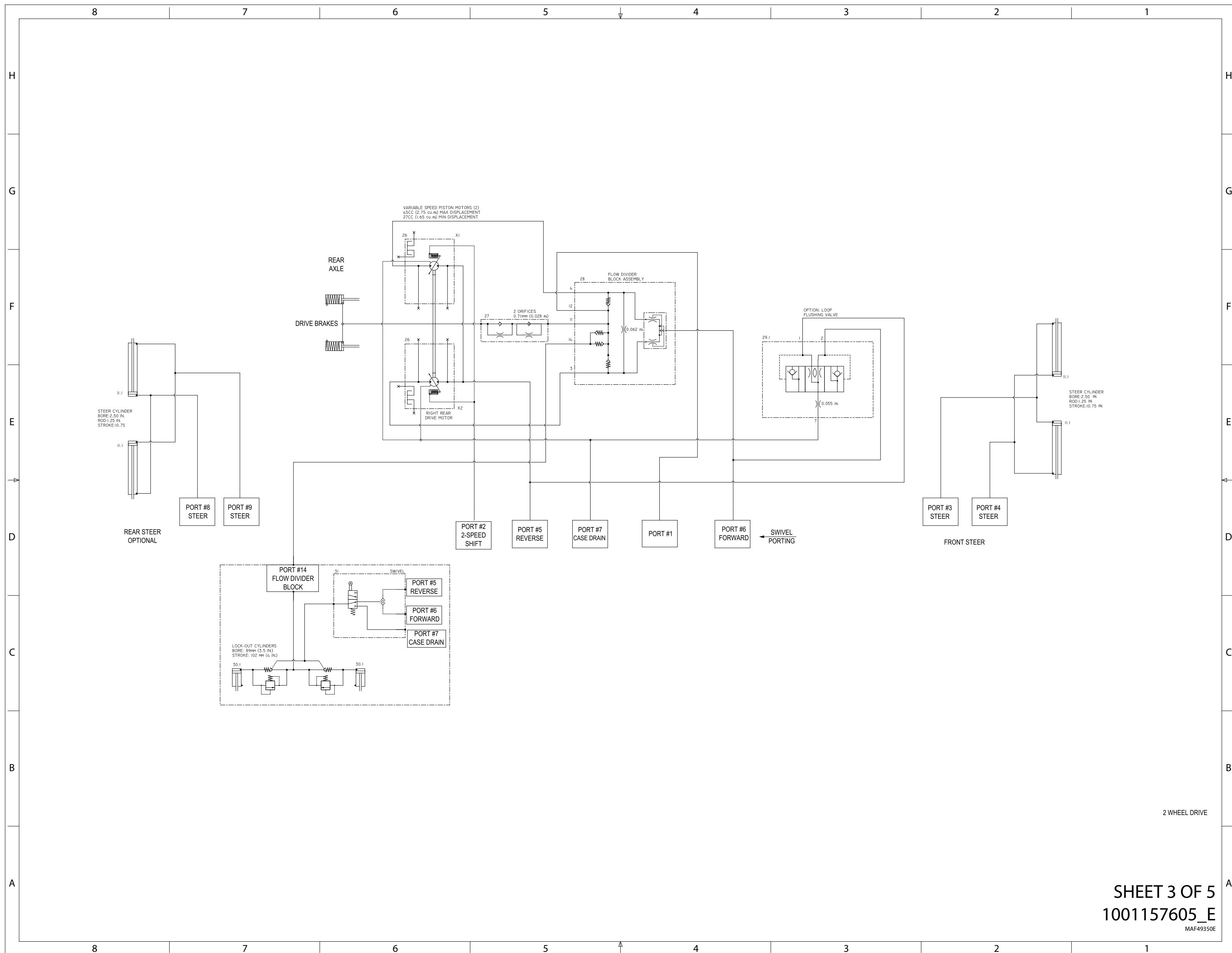
1.11 600AJ

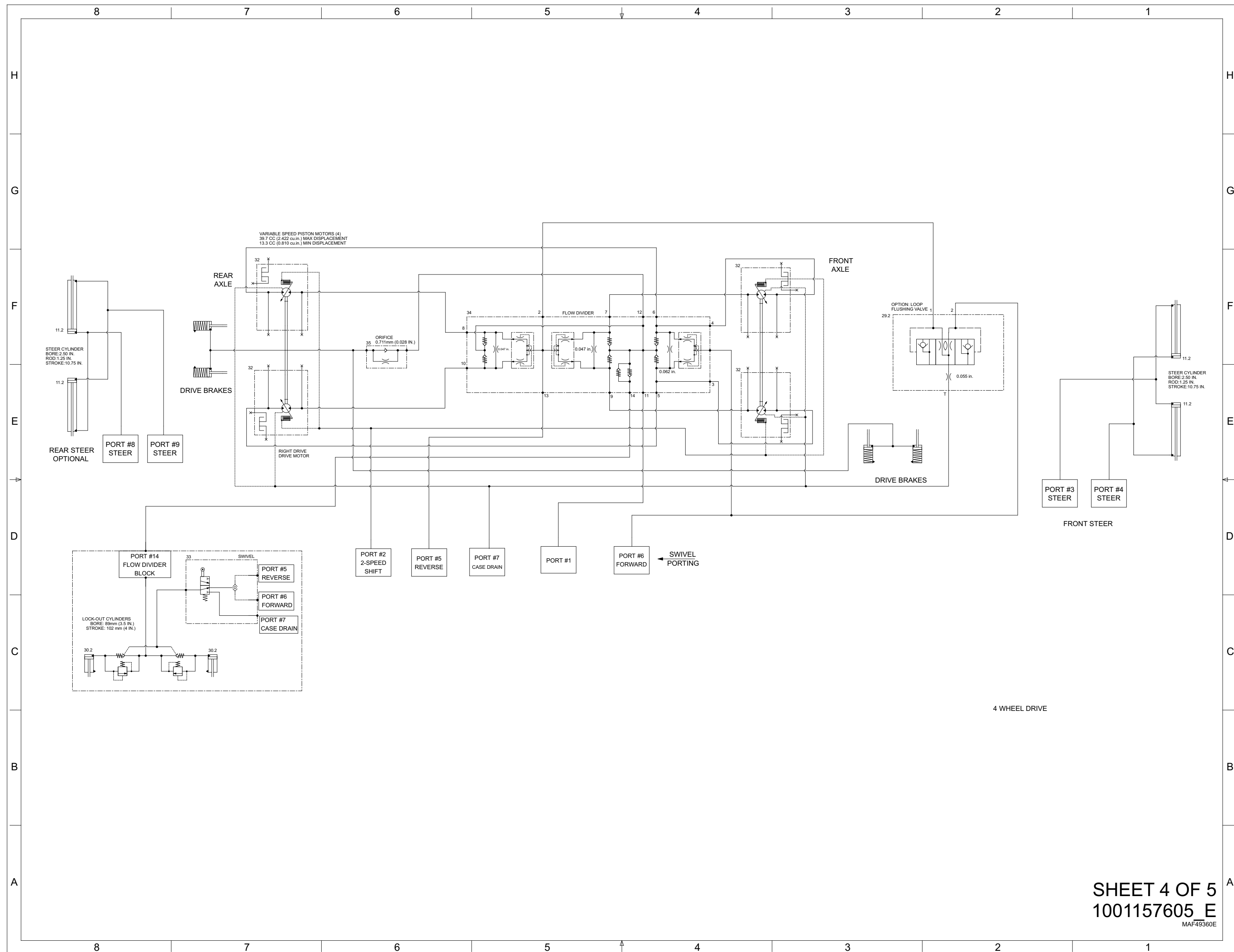
1.11.1 PVC 2001/PVC 2007 (US Built Machine (serial number starting 0300))





SHEET 2 OF 5
1001157605 E
MAF49340E



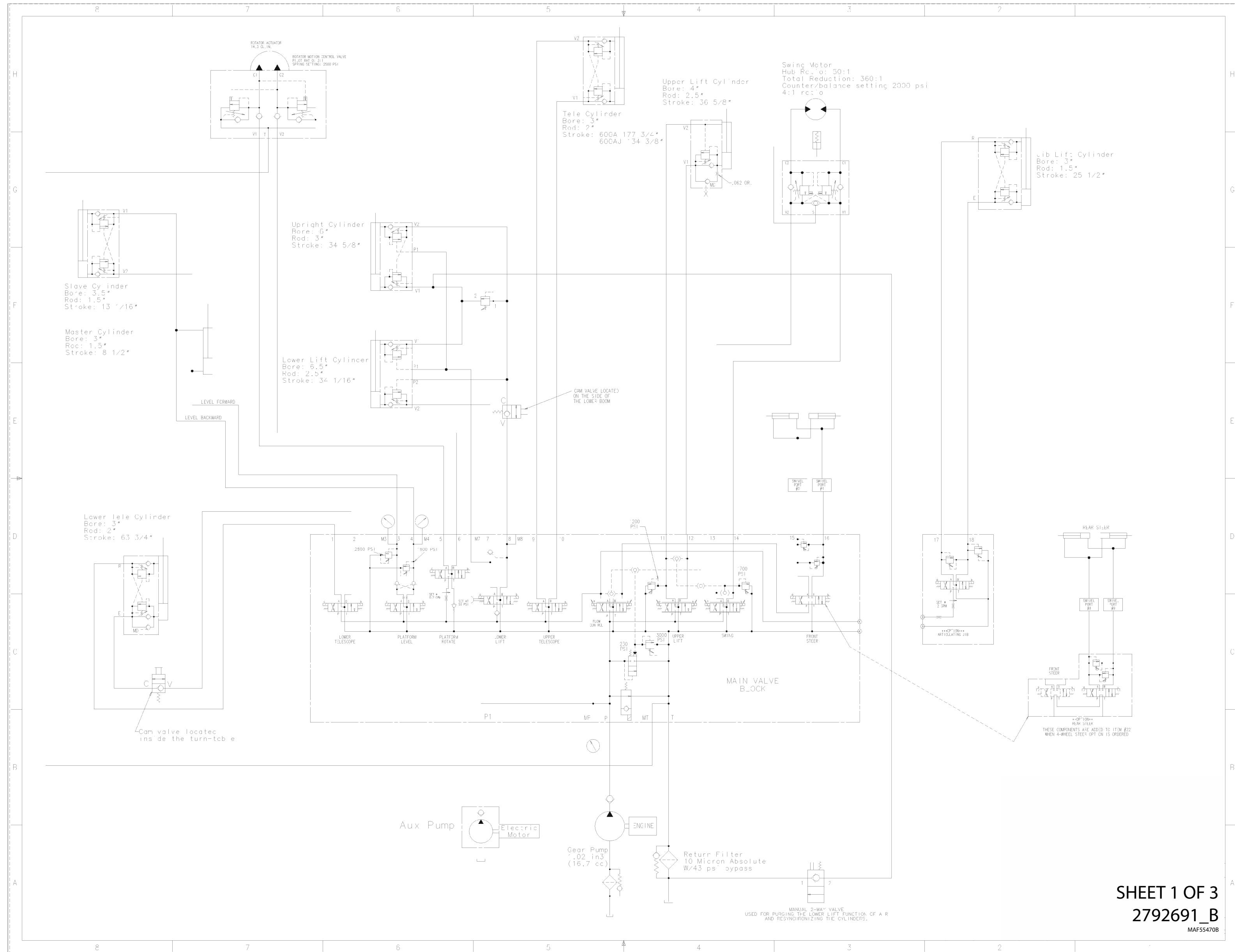


SHEET 4 OF 5
1001157605 E
MAF49360E

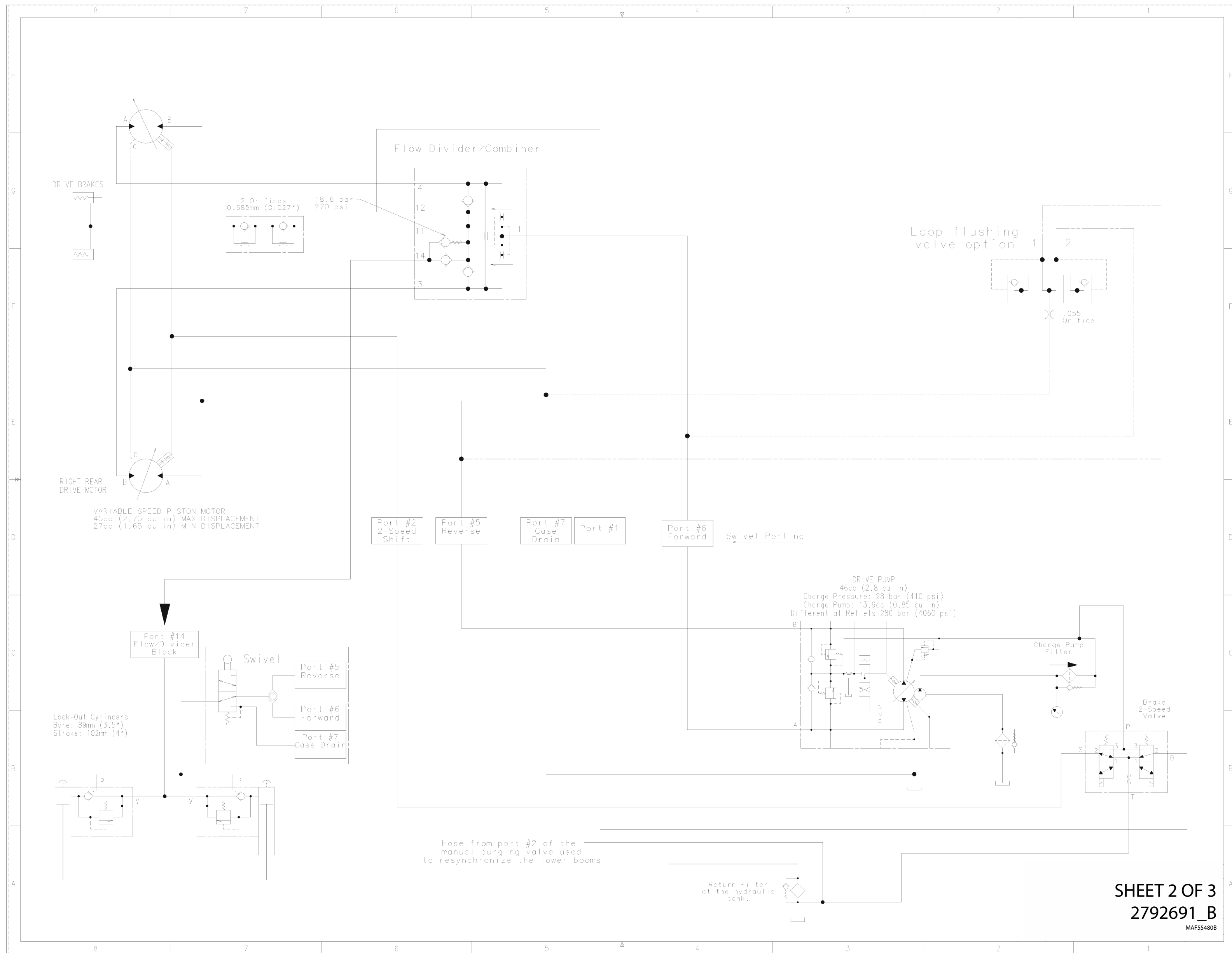
SLNO	ITEM_NO	COMPONENT NAME
1	1001181056	ACTUATOR, PLATFORM ROTATE
2	1683263	CYLINDER, MASTER
3	1683418	CYLINDER, SLAVE
4	1683609	CYLINDER, EXT. REACH
5	1683312	TOWER, TELESCOPIC CYLINDER
6	1684498	CYLINDER, UPRIGHT LEVEL
7	1683317	CYLINDER, UPPER TELESCOPE
8	1683294	CYLINDER, UPPER LIFT
9	1001101060	HUB, SWING DRIVE, 800 A/S
10	1683288	CYLINDER, LOWER LIFT
11.1	1001097242	CYLINDER, STEER
11.2	1001097242	CYLINDER, STEER
12	1001152565	MANIFOLD, PLATFORM VALVE JIB
13	4641436	CAM VALVE, MANUAL
14	4640929	VALVE, DIRECT ACTING RELIEF
15	1001152887	MANIFOLD, MAIN CONTROL 600A HYDR. 2WS
16	4640866	2/2 DIRECTIONAL CONTROL VALVE, MANUAL
17	2120209	FILTER, MEDIUM PRESSURE
18	2120164	FILTER, RETURN (SPIN ON)
19	1001099391	VALVE, DUAL SELECTION
20	4400454	TANK, HYD OIL
21	1001186544	PUMP, DRIVE M46HC (2WD)
22	3600242	PUMP, GEAR
23	1001150158	ENGINE
24	4640744	CHECK VALVE
25	3600365	PUMP-MOTOR AUX. POWER UNIT
26	1001136672	MOTOR, VARIABLE 2-SPEED PISTON
27	4641307	VALVE, FLOW CONTROL CHECK
28	1001100120	VALVE, FLOW DIVIDER
29.1	4641329	VALVE, LOOP FLUSHING VALVE
29.2	4641329	VALVE, LOOP FLUSHING VALVE
30.1	1684465	CYLINDER, RAM LOCKOUT
30.2	1684465	CYLINDER, RAM LOCKOUT
31	1660304	COUPLING OIL SWIVEL 9 PORT
32	1001135600	MOTOR, VARIABLE 2-SPEED PISTON
33	1001106974	COUPLING OIL SWIVEL 7 PORT
34	1001098503	VALVE, FLOW DIVIDER
35	4641284	VALVE, ORIFICE CHECK
36	1001152561	MANIFOLD, MAIN CONTROL 600A HYDR. 4WS
37	1001186542	PUMP, DRIVE M46HC (4WD)

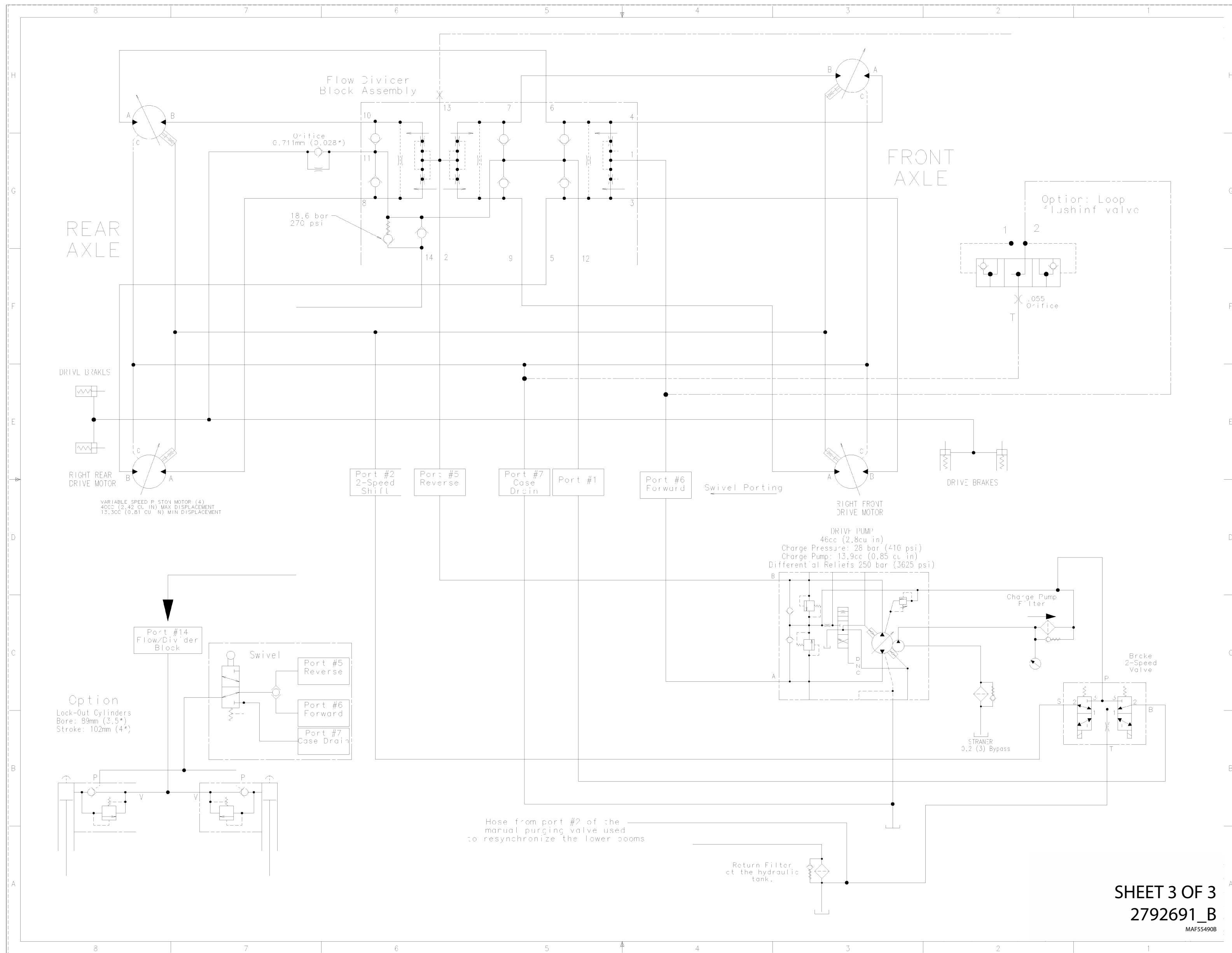
SHEET 5 OF 5
 1001157605 E
MAF49280E

1.11.2 PVC 2001/PVC 2007 (China Built Machine (serial number starting B300))



SHEET 1 OF 3
2792691_B
MAF554708

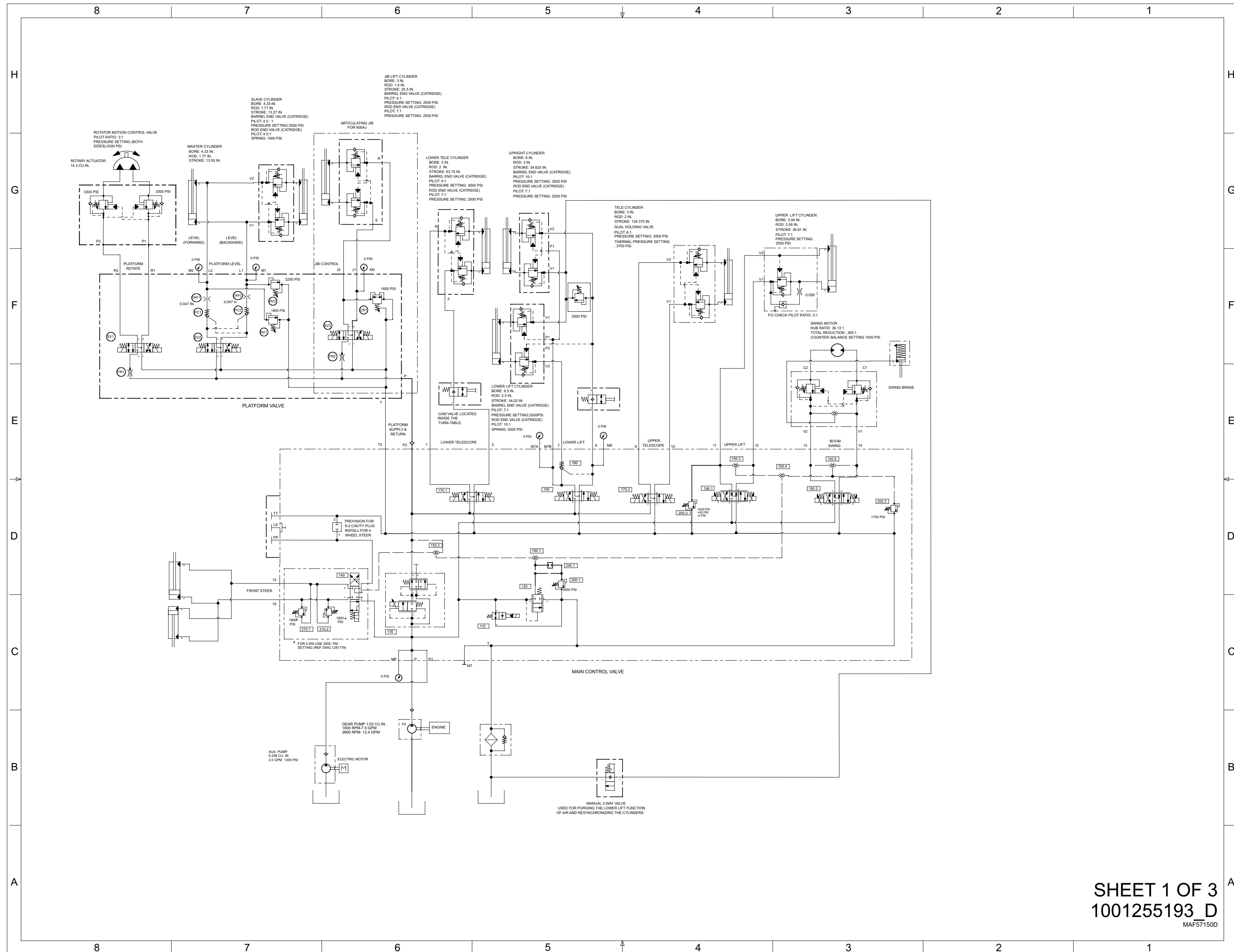




SHEET 3 OF 3
2792691_B
MAF55490B

1.12 600AJ HC3

1.12.1 PVC 2001



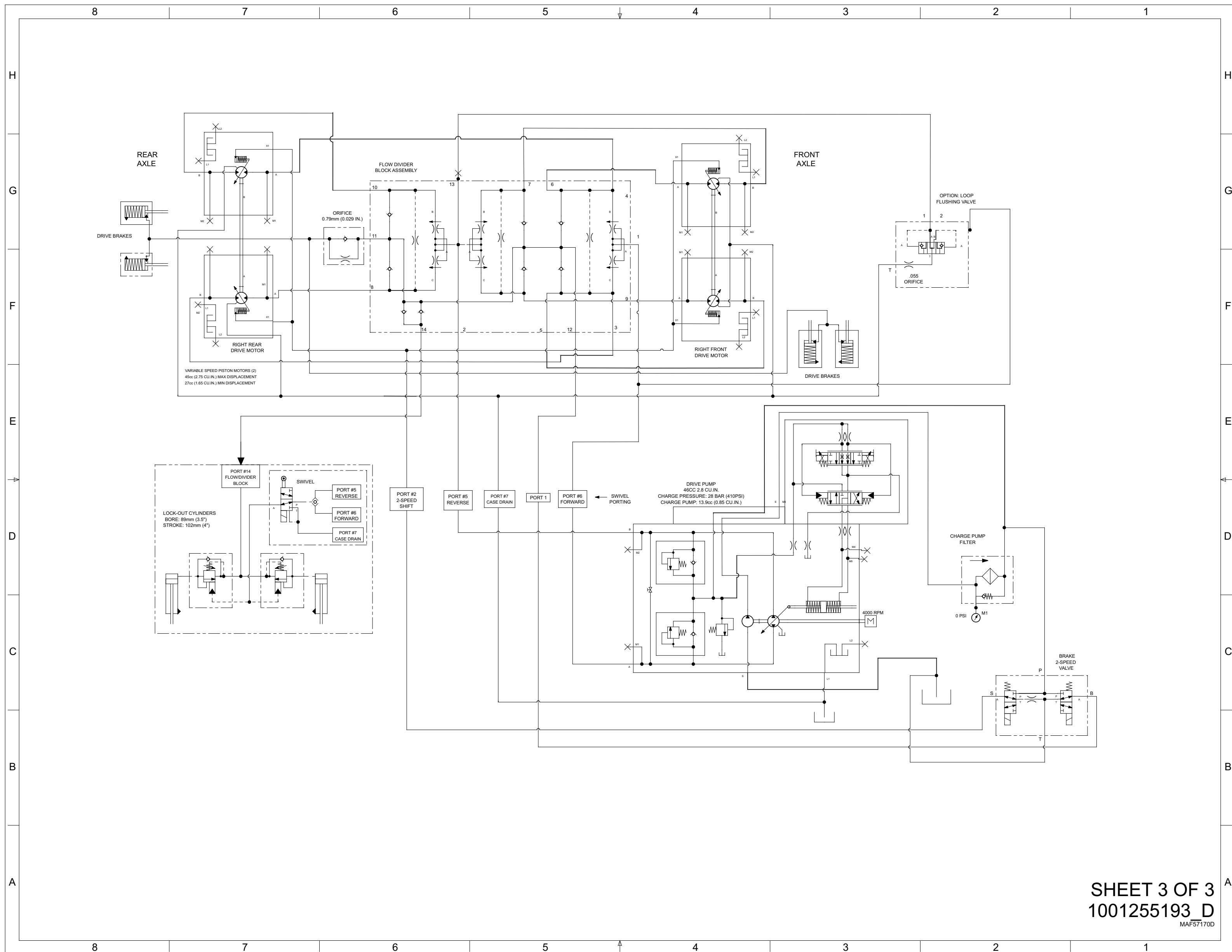
SHEET 1 OF 3
1001255193_D
MAF57150D

		8	7	6	5	4	3	2	1
H									
G									
F									
E									
D									
C									
B									
A									
		8	7	6	5	4	3	2	1

COMPONENTS OF MAIN AND PLATFORM VALVE			
ITEM IDENTIFIER	QUANTITY	CATALOGUE DESCRIPTION	COMPONENT NAME
110	1	OD150436A000000-VEI-016-NO-10A-A-04-000	2/2 DIRECT CONTROL - DUMP VALVE
120	1	VLST-10A-TF-17A 048401008517000A	LOAD SENSE CATRIDGE 250psi +/-15%
130	1	KUDSR3C2A/FN9V	PROP.FLOW CONTROL W/PRESS.COMP.15.8 GPM
140	1	VEDS-10A-5310 0D531054KK2000	5/3 DIRECT. CONTROL VALVE - FRONT STEER
150	5	SELB-08A 049405005600000	SHUTTLE VALVE
160	1	4WE 6 J6X/EG12N9K40 S043A-1860	4/3 DIRECT CONT. VALVE LOWER LIFT , 12 VDC
170	2	4WE 6 J6X/EG12N9K40 S043A-1799A	4/3 DIRECT CONT. VALVE TOWER TELESCOPE , 12 VDC
180	1	VSOA-10A-03 043310008503000	PILOT OPERATED CHECK VALVE, LOWER LIFT
190	2	4WRAB 6 W25-10/G12N9K4/MR S043A-1799	4/3 PROP. DIRECT. CONTROL. LIFT 12VDC
200	3	VSBN-08A-S-35 041149735635000	PRESSURE RELIEF VALVE, MAIN, UPPER, BOOM
210	2	VSBN-08A-S-35 041149735635000	PRESSURE RELIEF VALVE, FRONT STEER
CR1	1	CR08-38A-0-N-30/16.5	BI-DIRECTIONAL RELIEF VALVE, VENTED
FR1	1	FR08-20F-0-N-/0.20	REGULATOR, PRESSURE-COMPENSATED
FR2	1	FR08-20F-0-N-/2.00	REGULATOR, PRESSURE-COMPENSATED
PC1,PC2	2	PC08-30-0-N	CHECK, PILOT-TO-OPEN
RV1	1	RV08-22A-0-N-35/18	RELIEF,DIFFERENTIAL AREA POPPET
RV2	1	RV08-22A-0-N-35/32.5	RELIEF,DIFFERENTIAL AREA POPPET
SV1,SV2,SV3	3	SV08-47D-0-N-00	SPOOL, 4-WAY, 3-POSITION, ?MOTOR SPOOL?

		8	7	6	5	4	3	2	1
H									
G									
F									
E									
D									
C									
B									
A									
		8	7	6	5	4	3	2	1

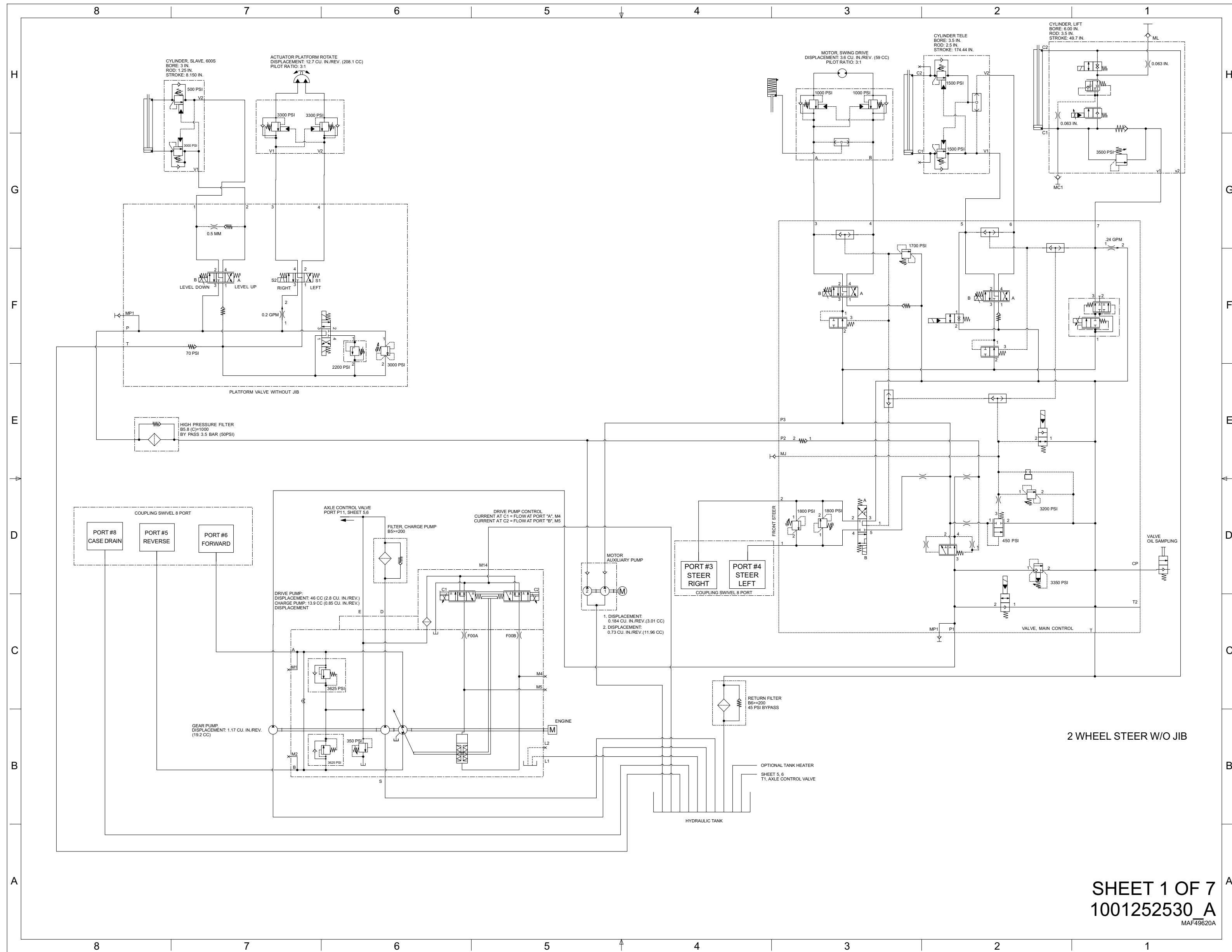
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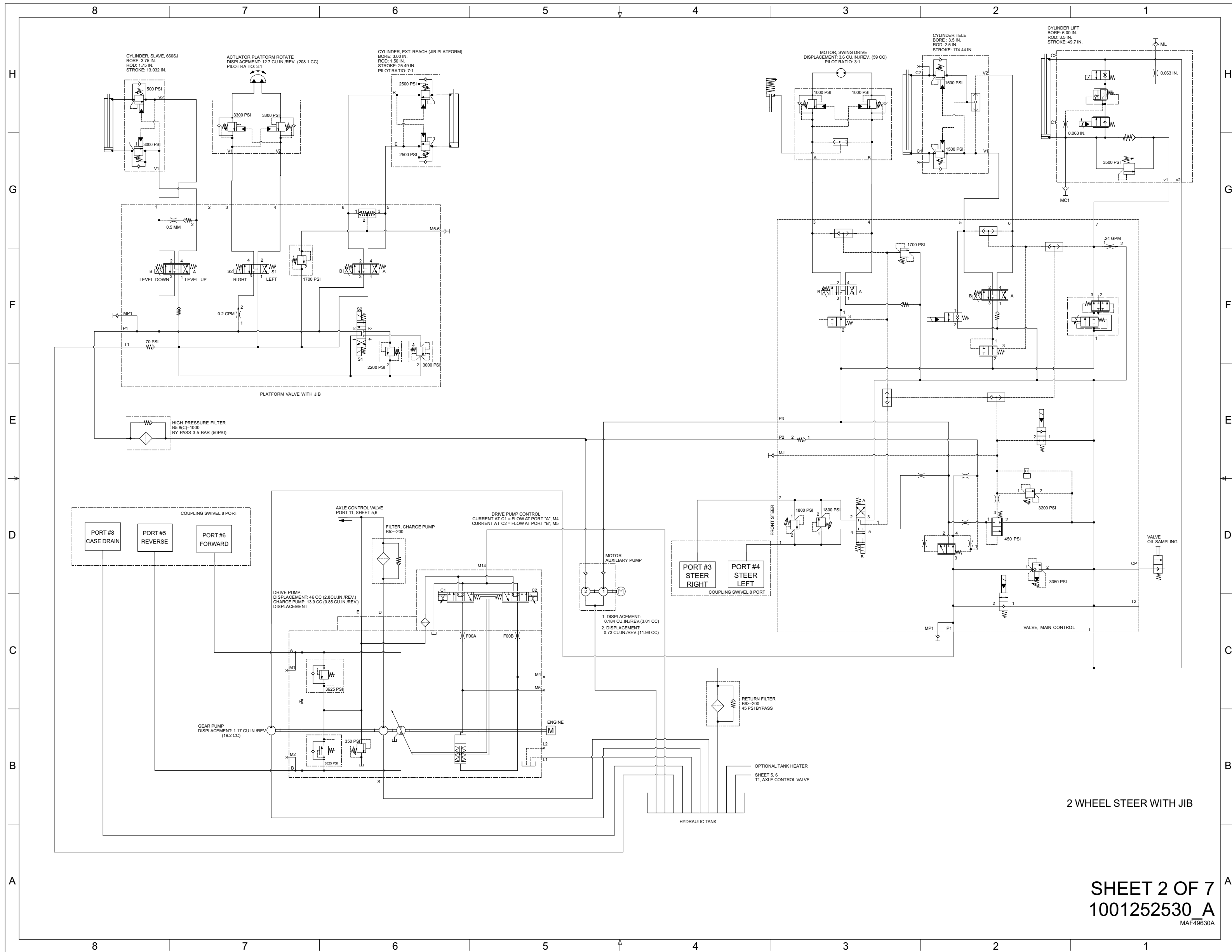


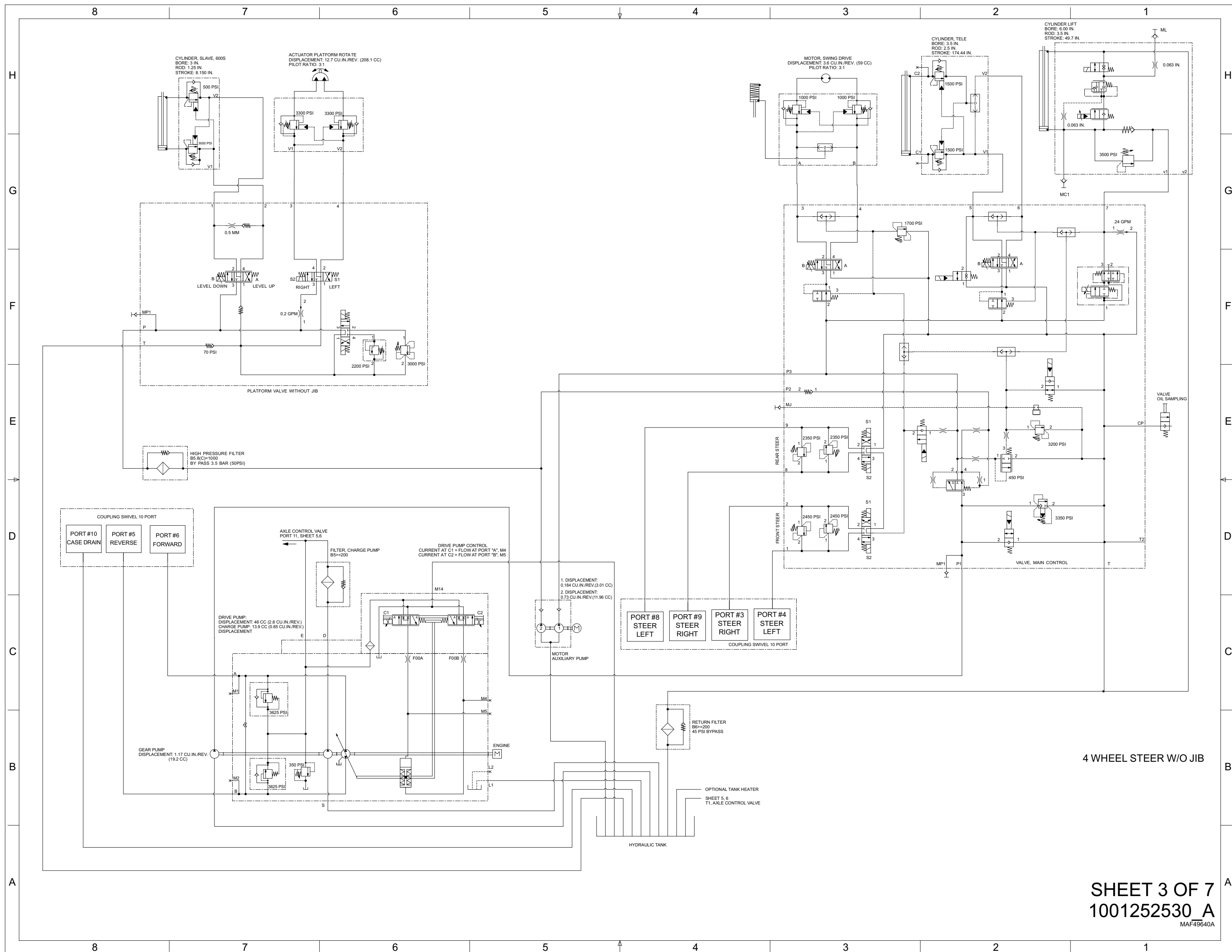
SHEET 3 OF 3
1001255193 D
MAF57170D

1.13 600S/660SJ

1.13.1 PVC 2001/PVC 2007

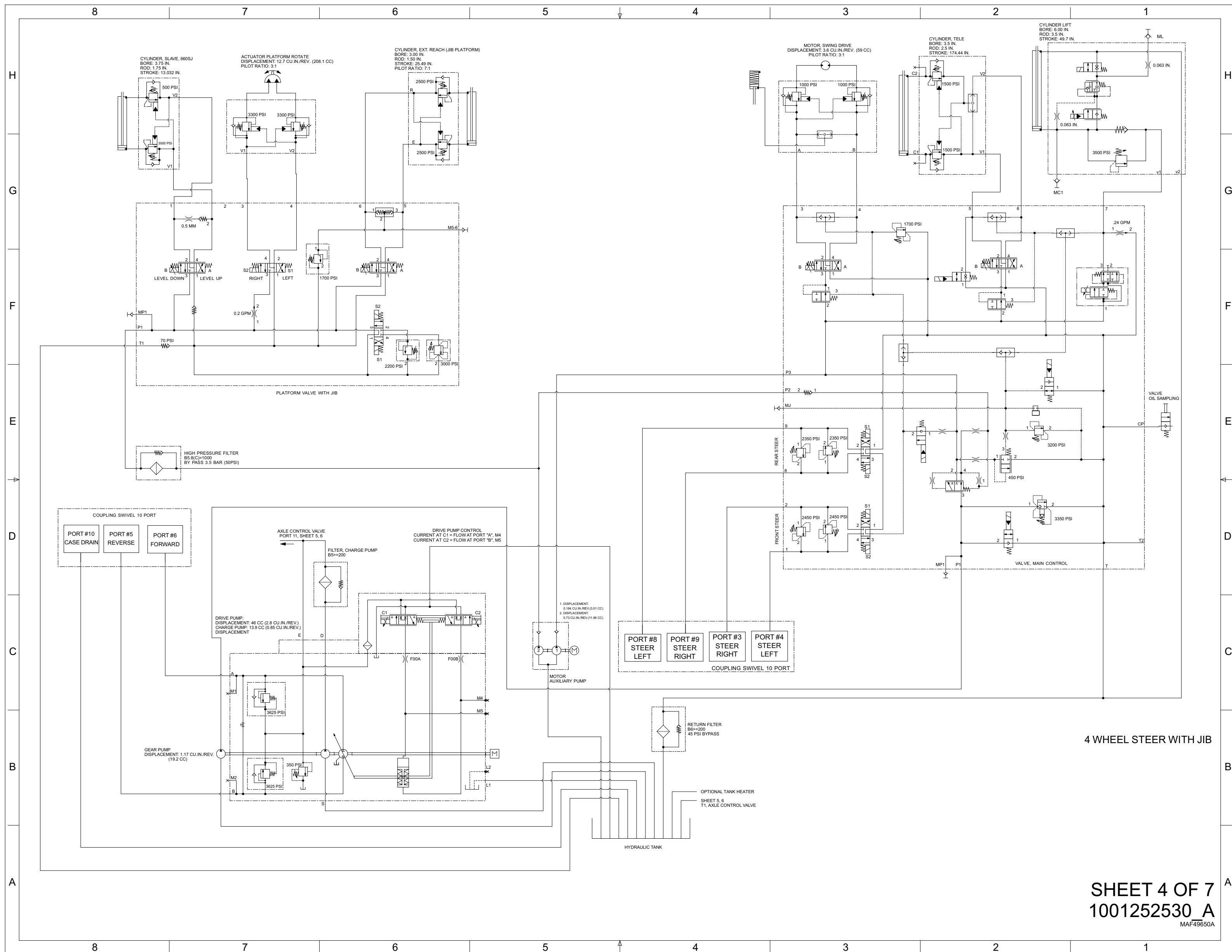


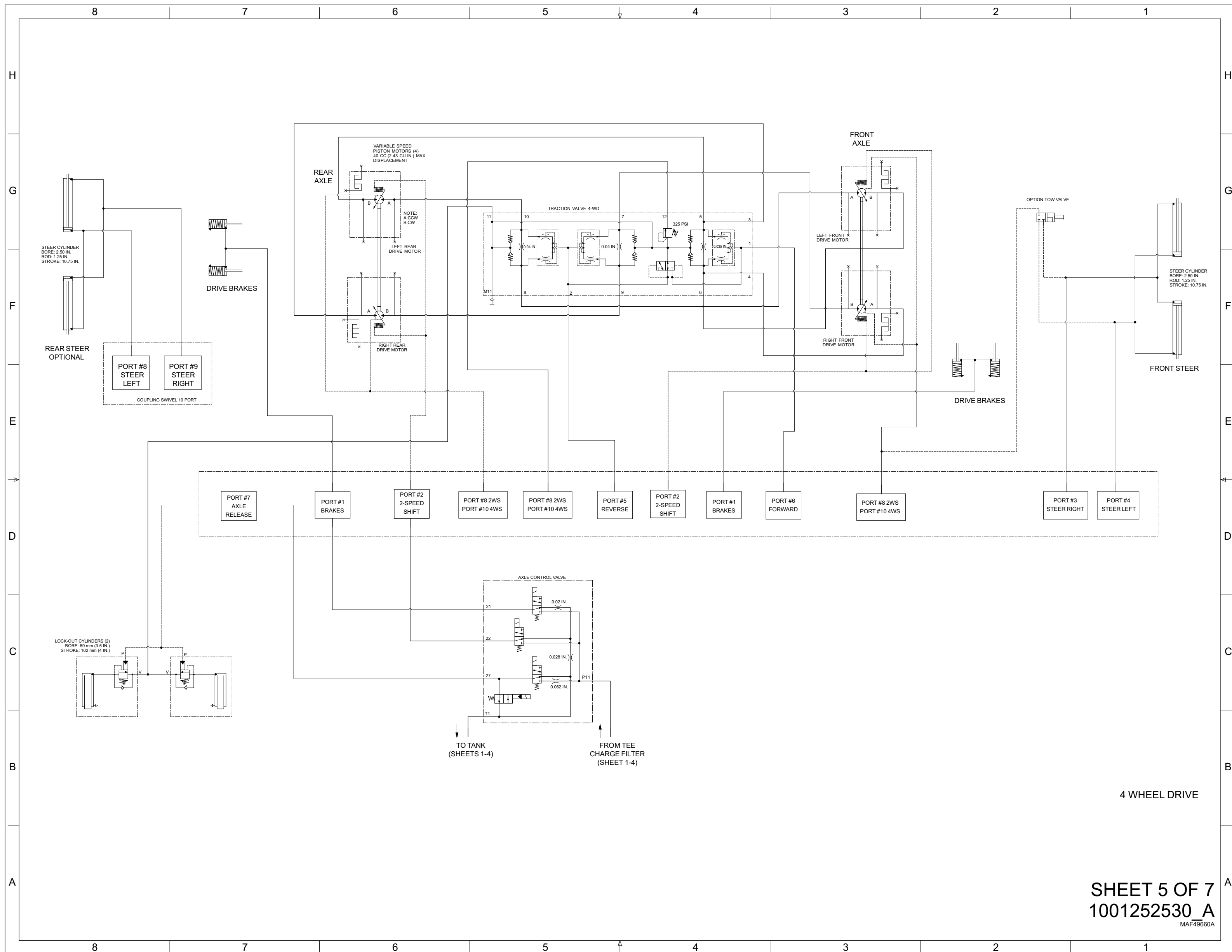


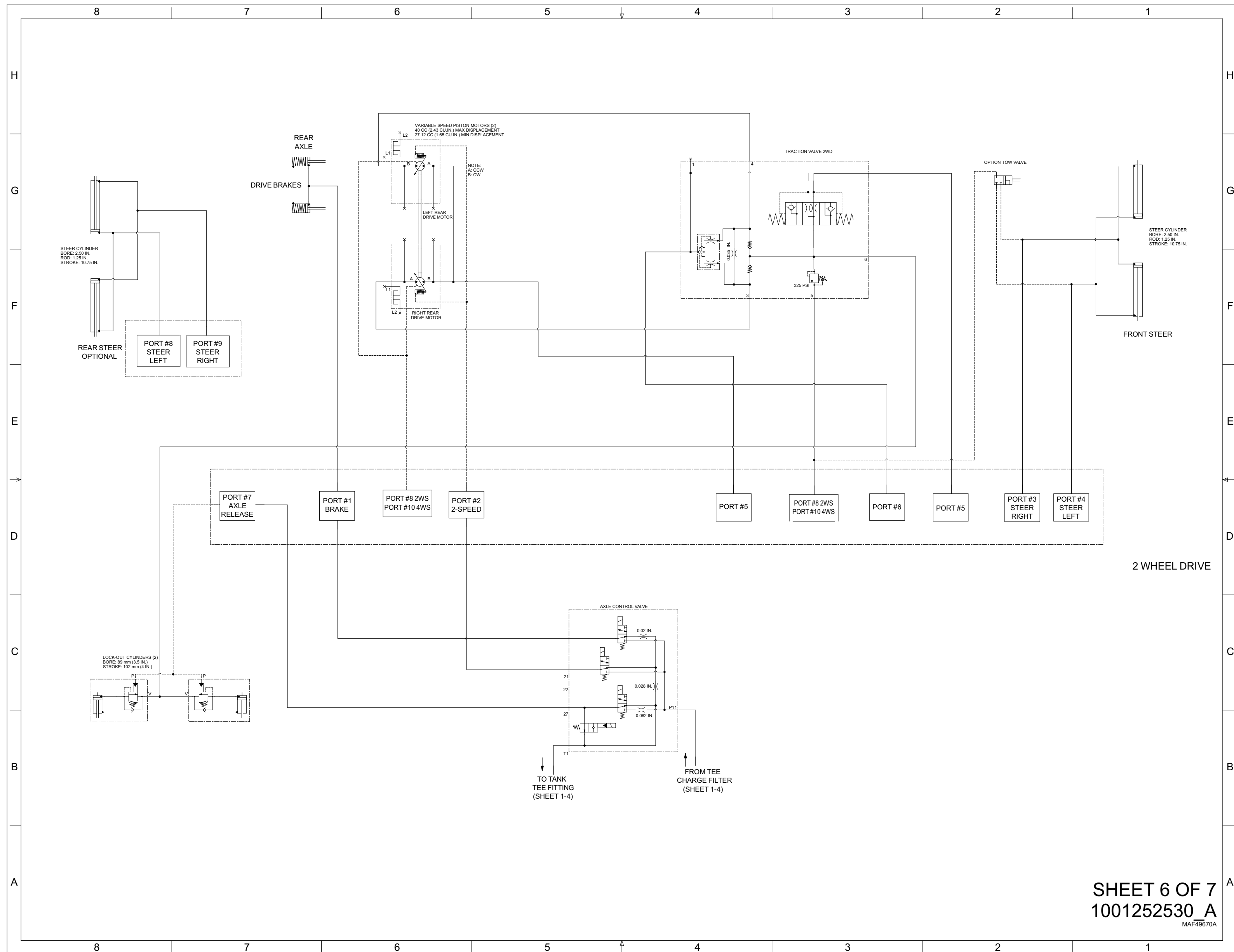


4 WHEEL STEER W/O JIB

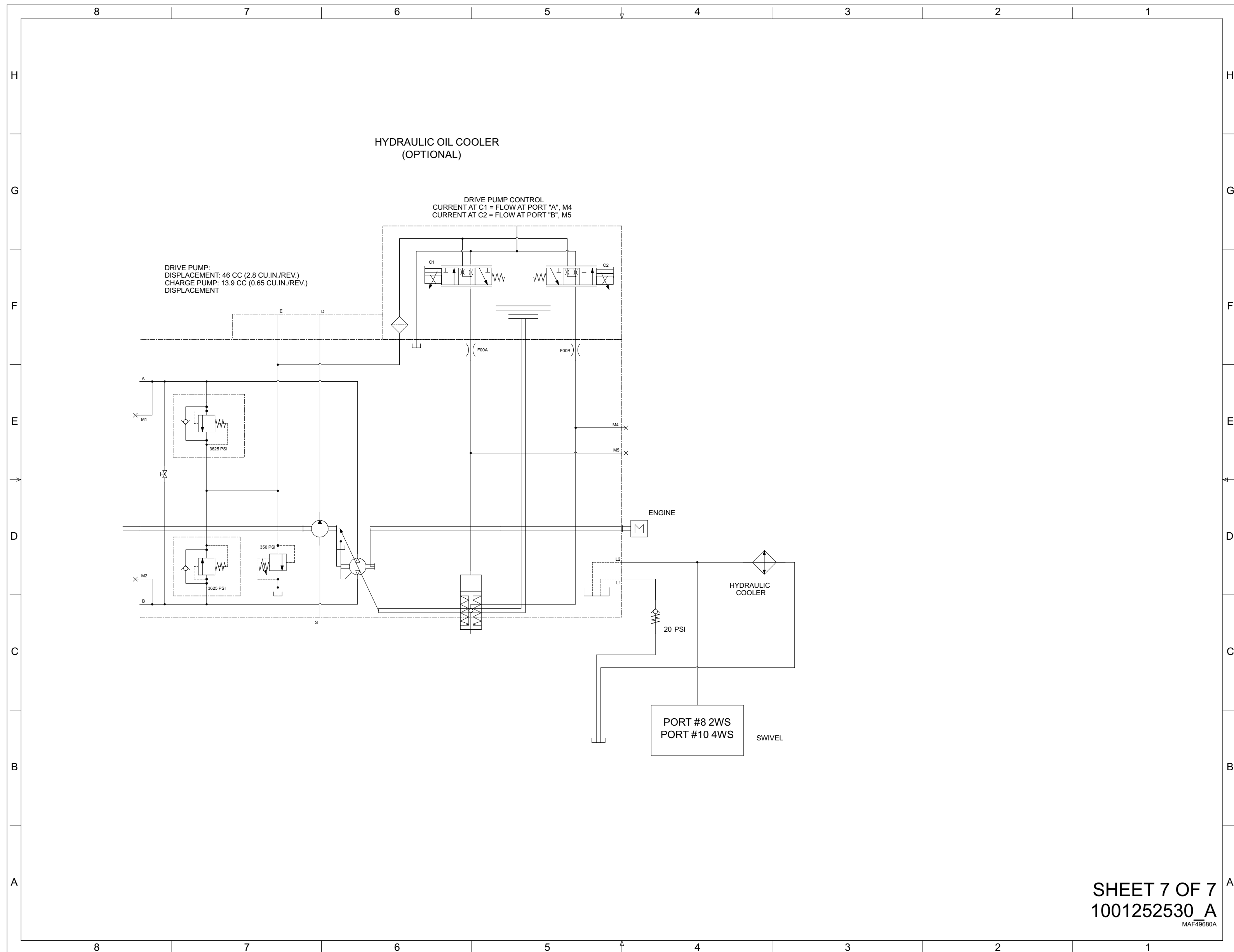
SHEET 3 OF 7
1001252530 A
 MAF49640A





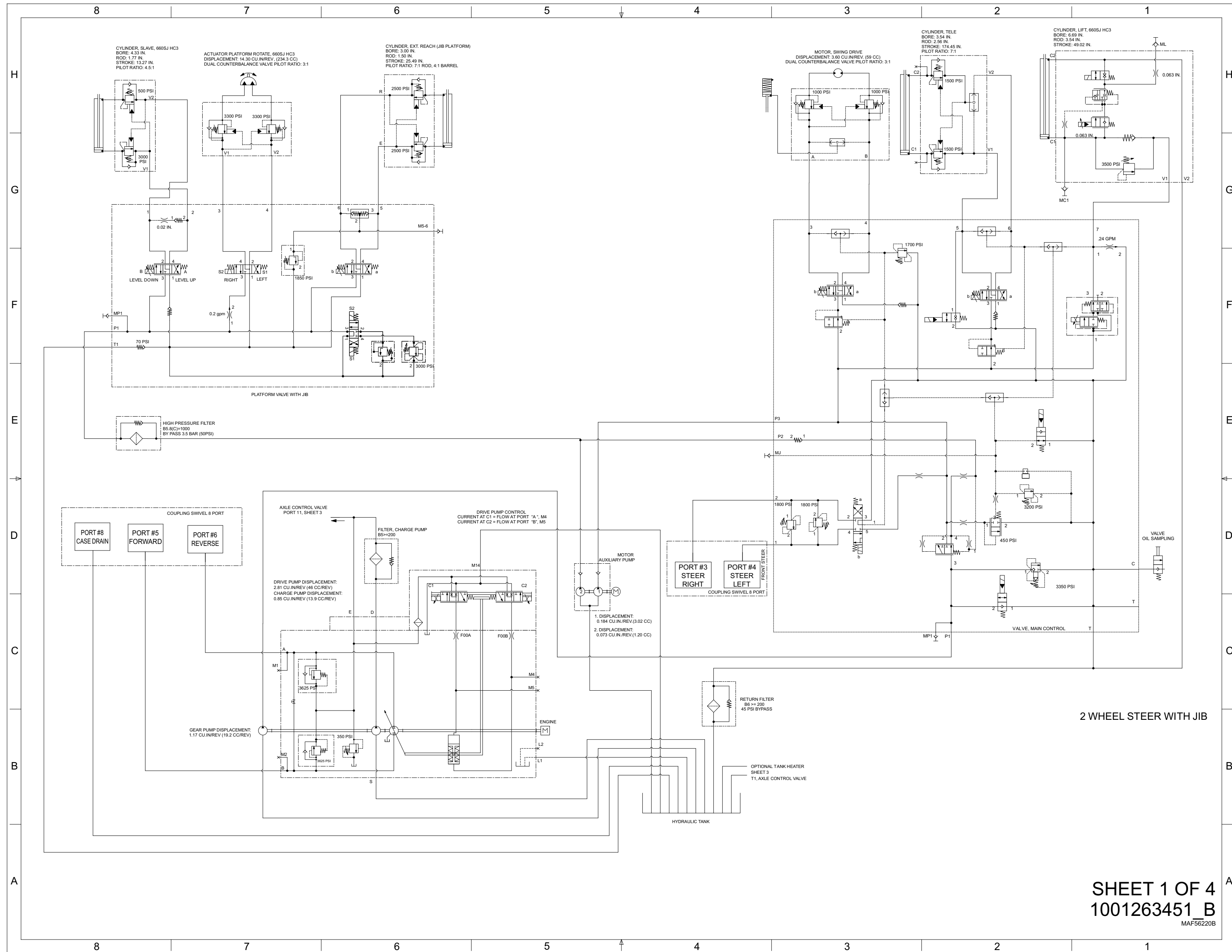


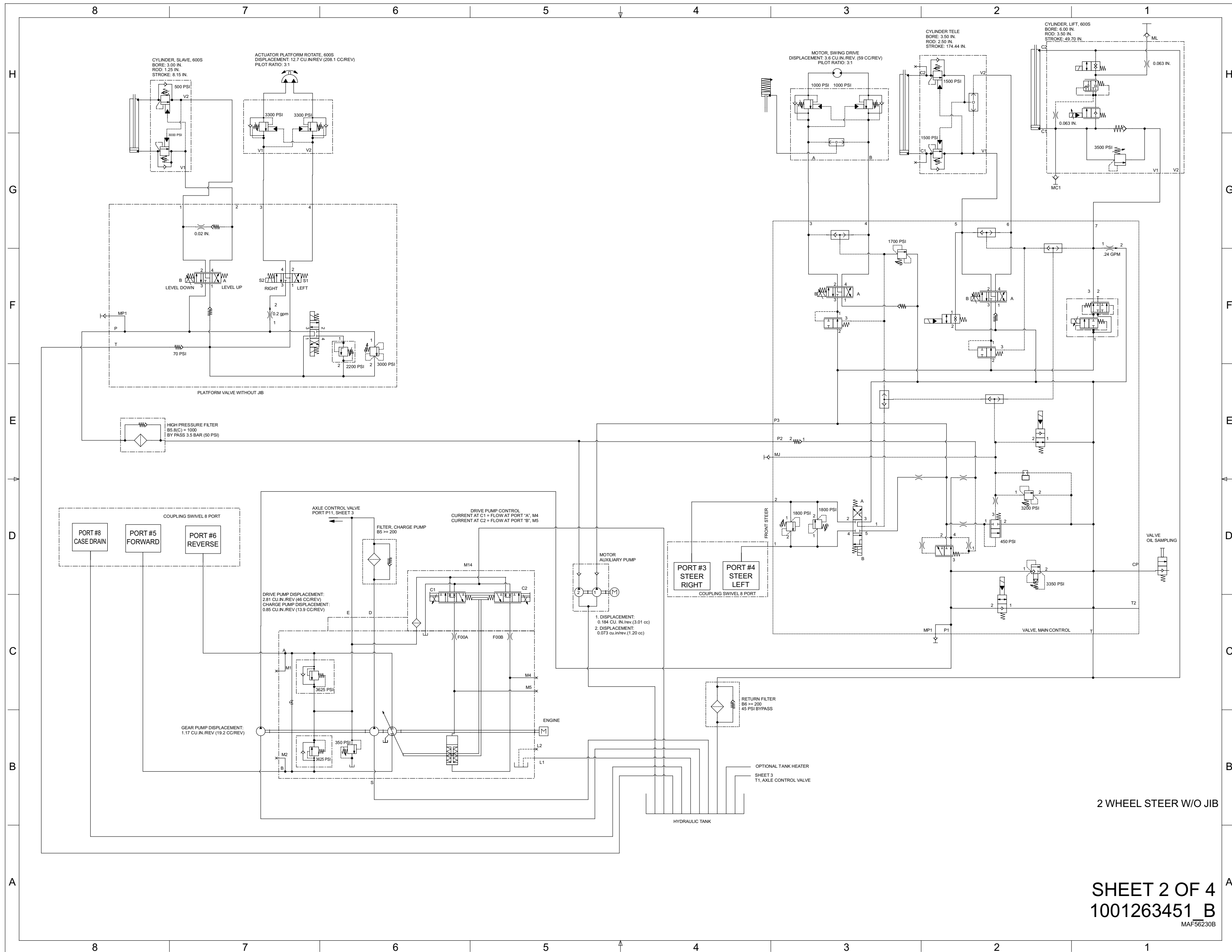
SHEET 6 OF 7
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1.14 600S HC3/660SJ HC3

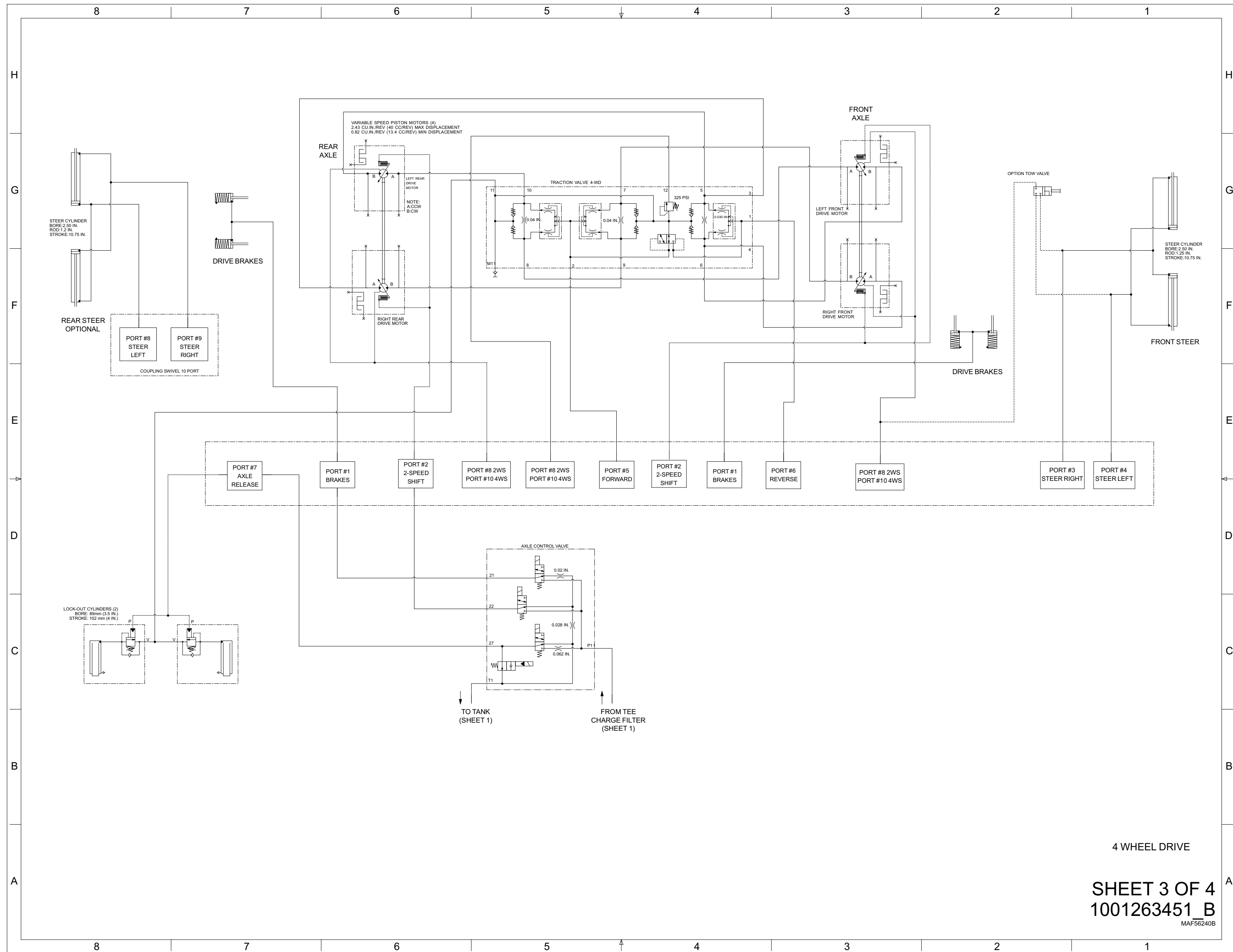
1.14.1 PVC2001





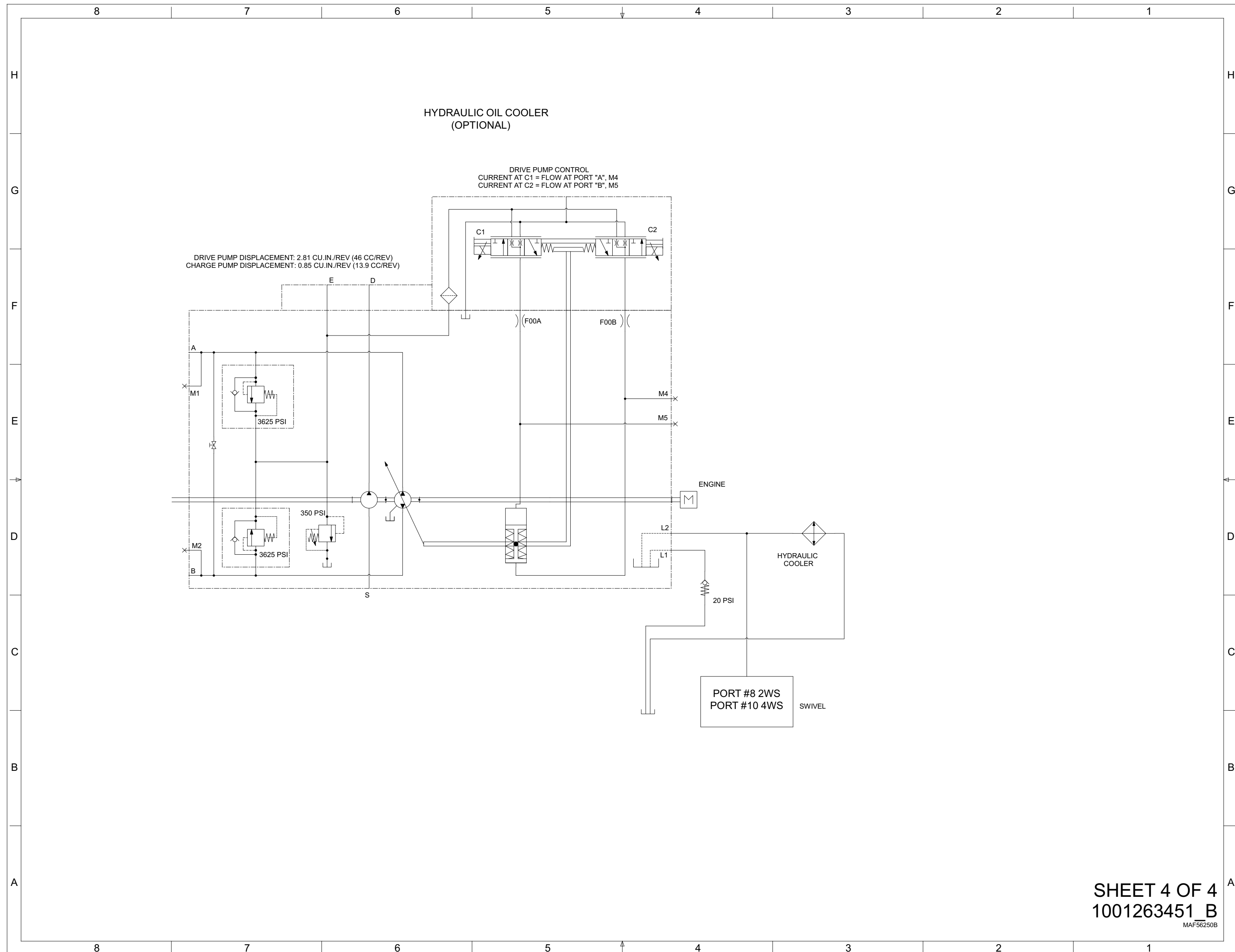
2 WHEEL STEER W/O JIB

SHEET 2 OF 4
1001263451 B
MAF56230B



4 WHEEL DRIVE

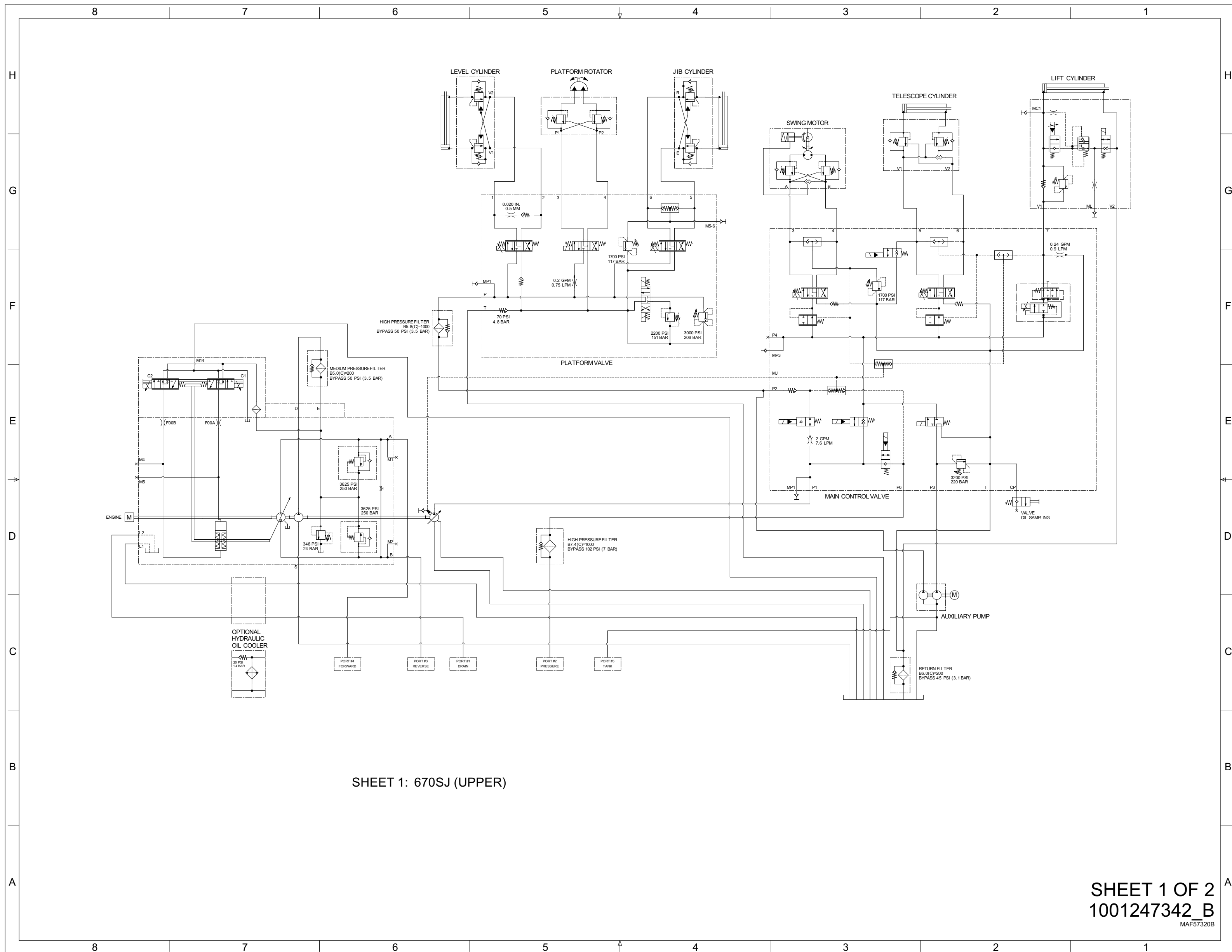
SHEET 3 OF 4
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MAF56240B



SHEET 4 OF 4
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MAF56250B

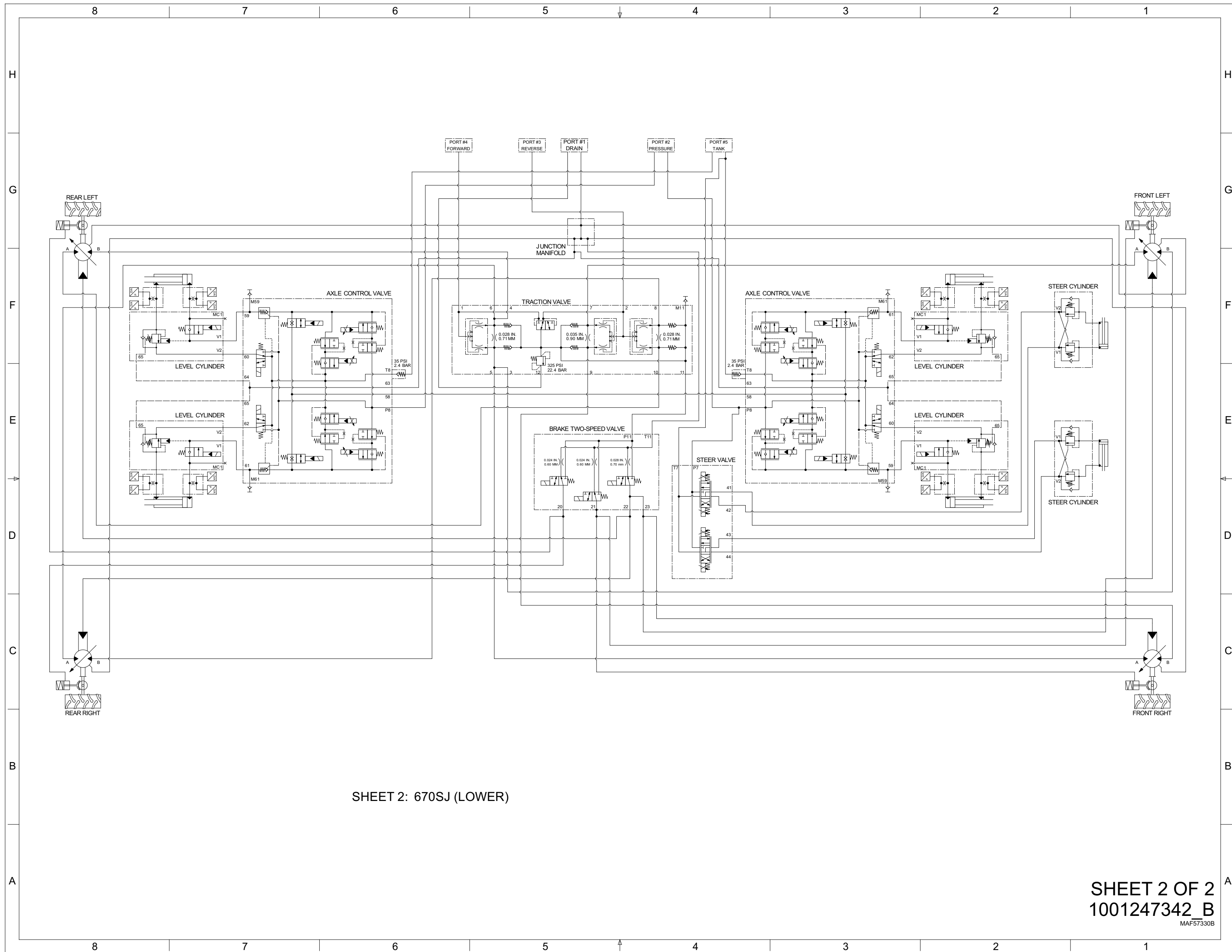
1.15 670SJ Self Leveling

1.15.1 PVC 2007



SHEET 1: 670SJ (UPPER)

SHEET 1 OF 2
1001247342_B
MAF57320B

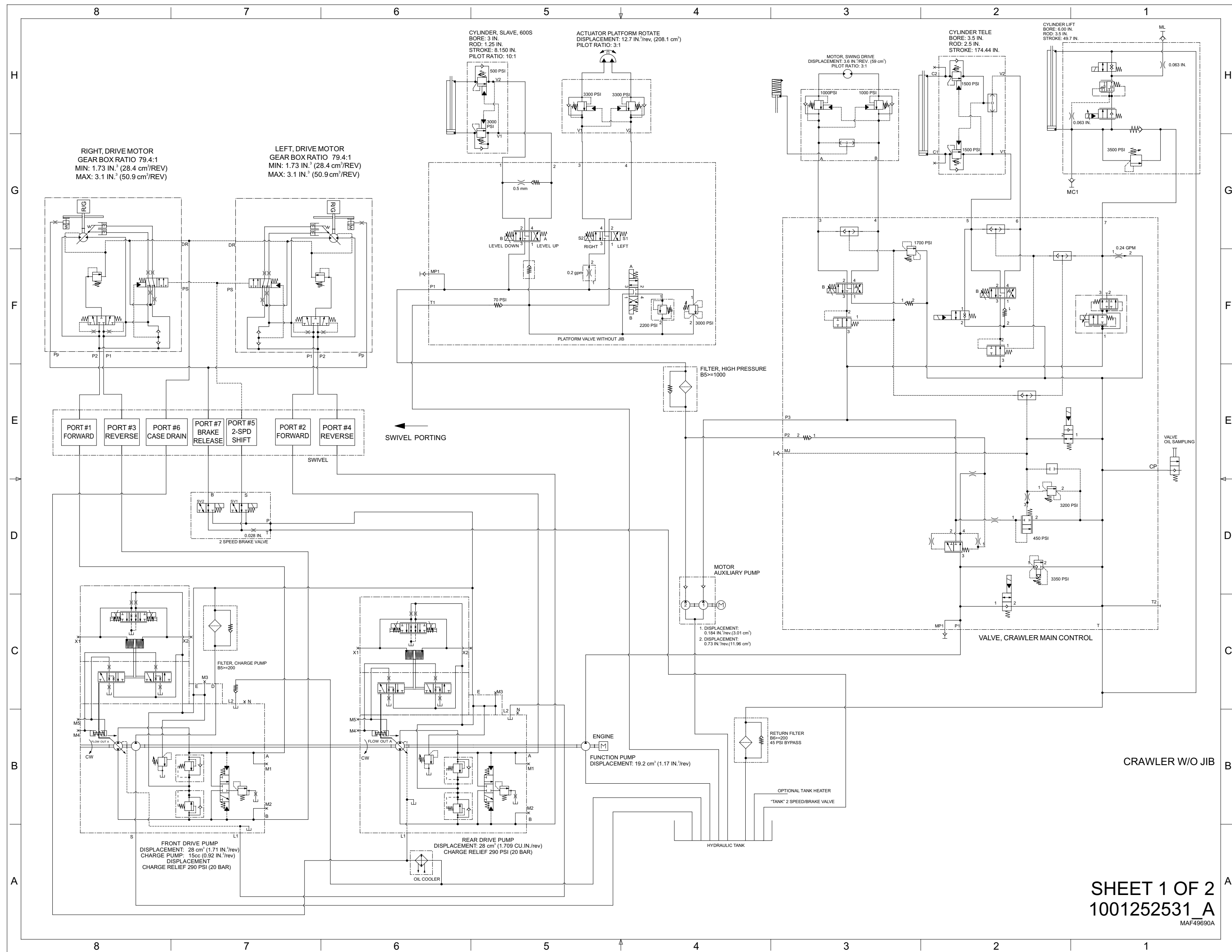


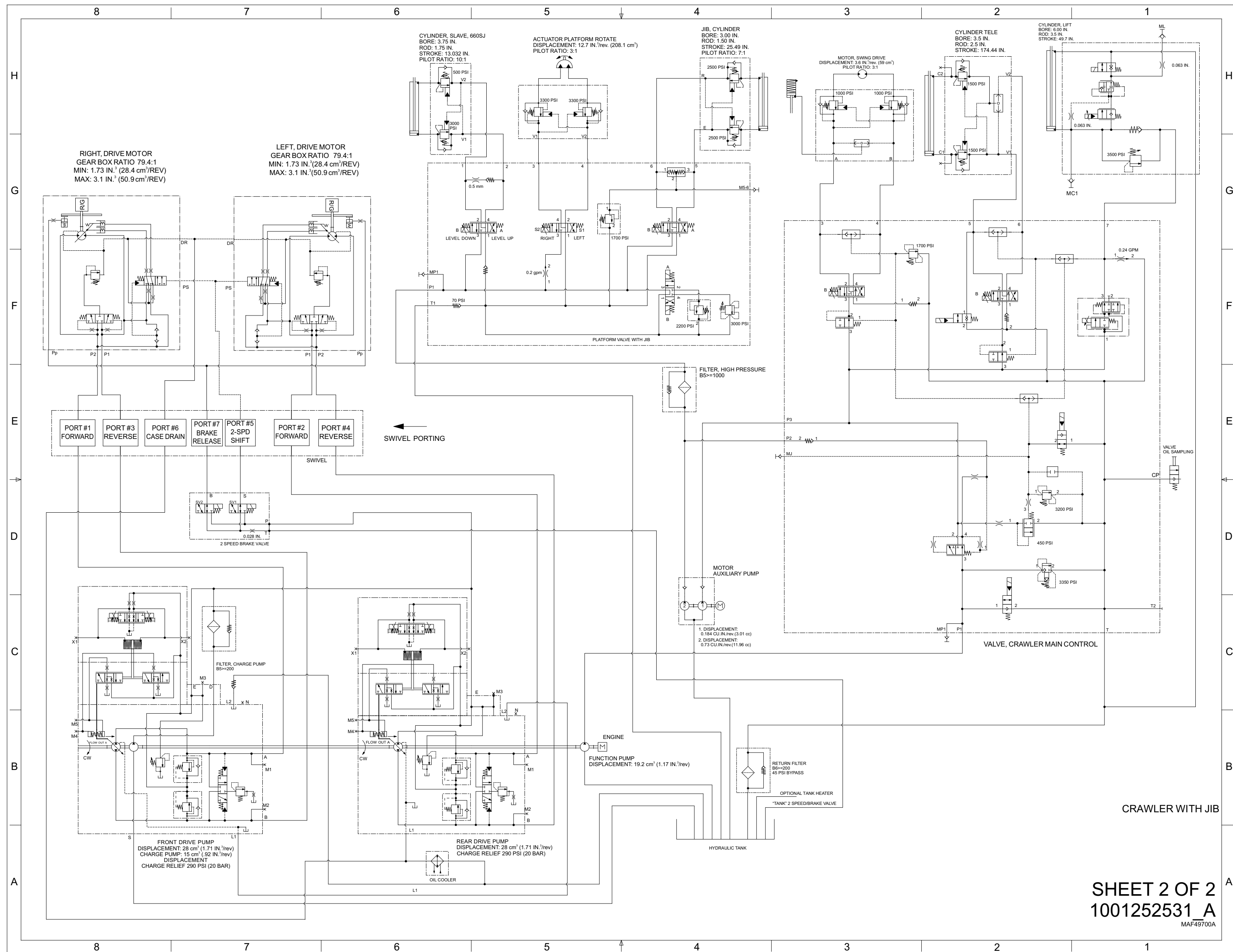
SHEET 2: 670SJ (LOWER)

SHEET 2 OF 2
1001247342_B
MAF57330B

1.16 600SC/660SJC

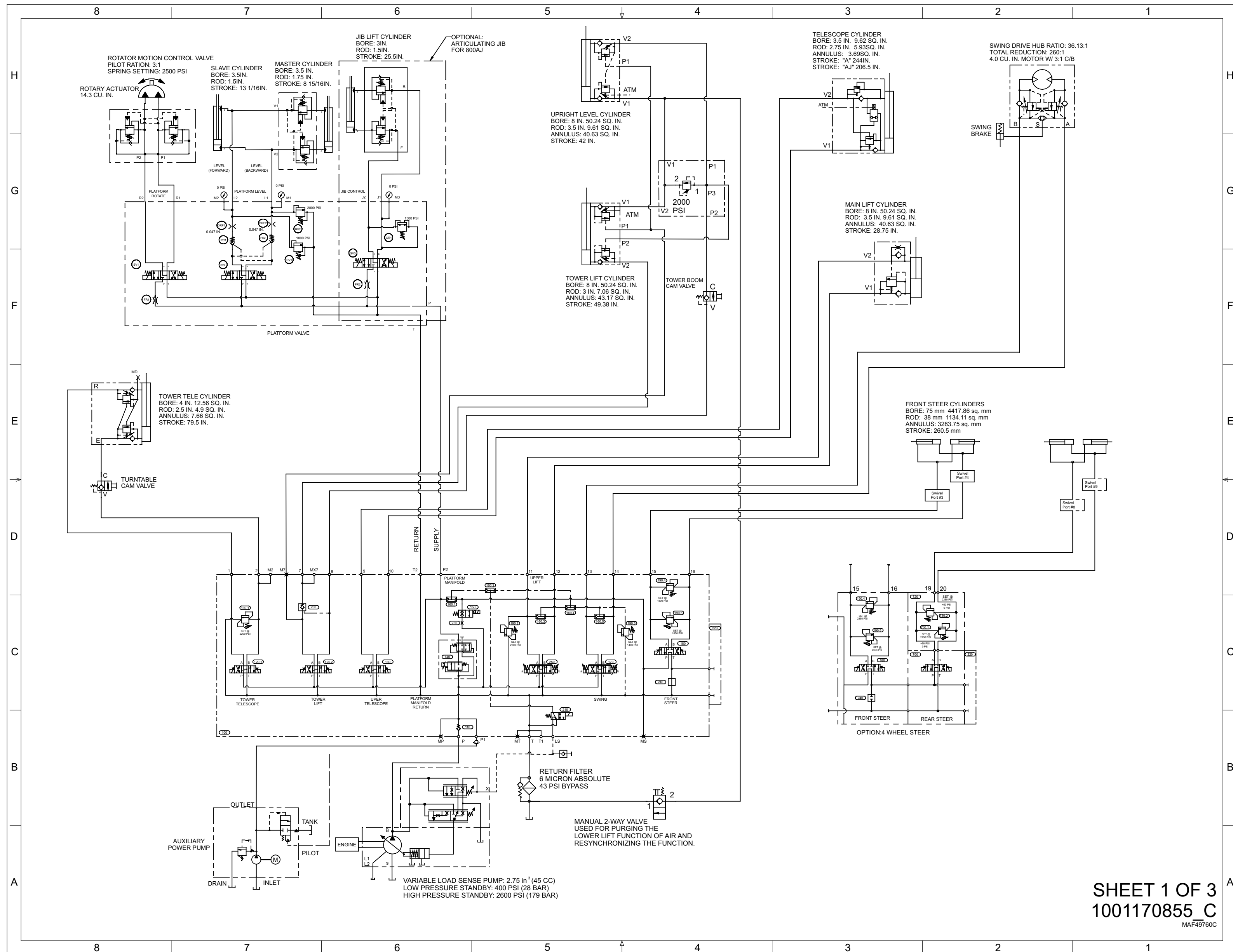
1.16.1 PVC 2001/PVC 2007

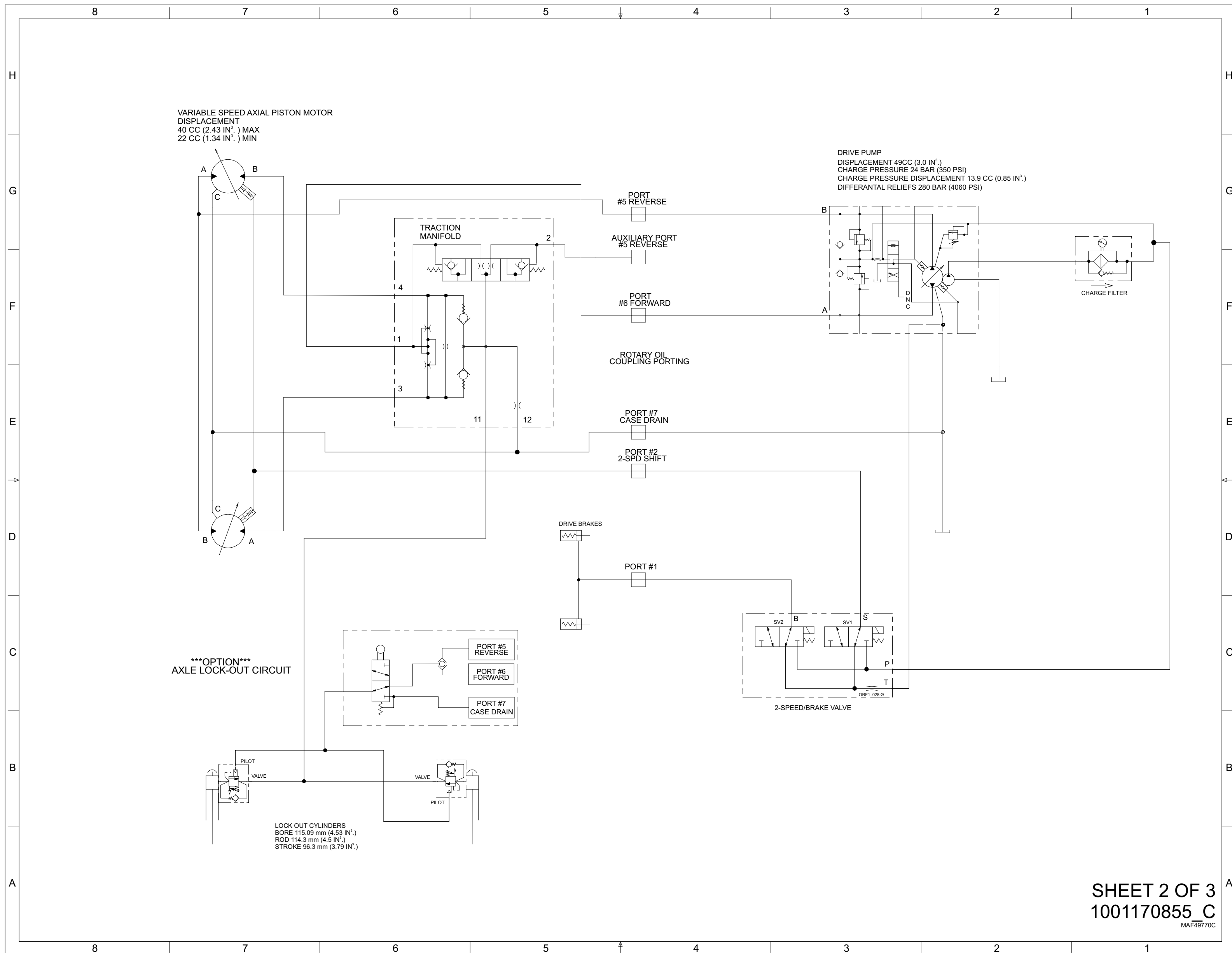


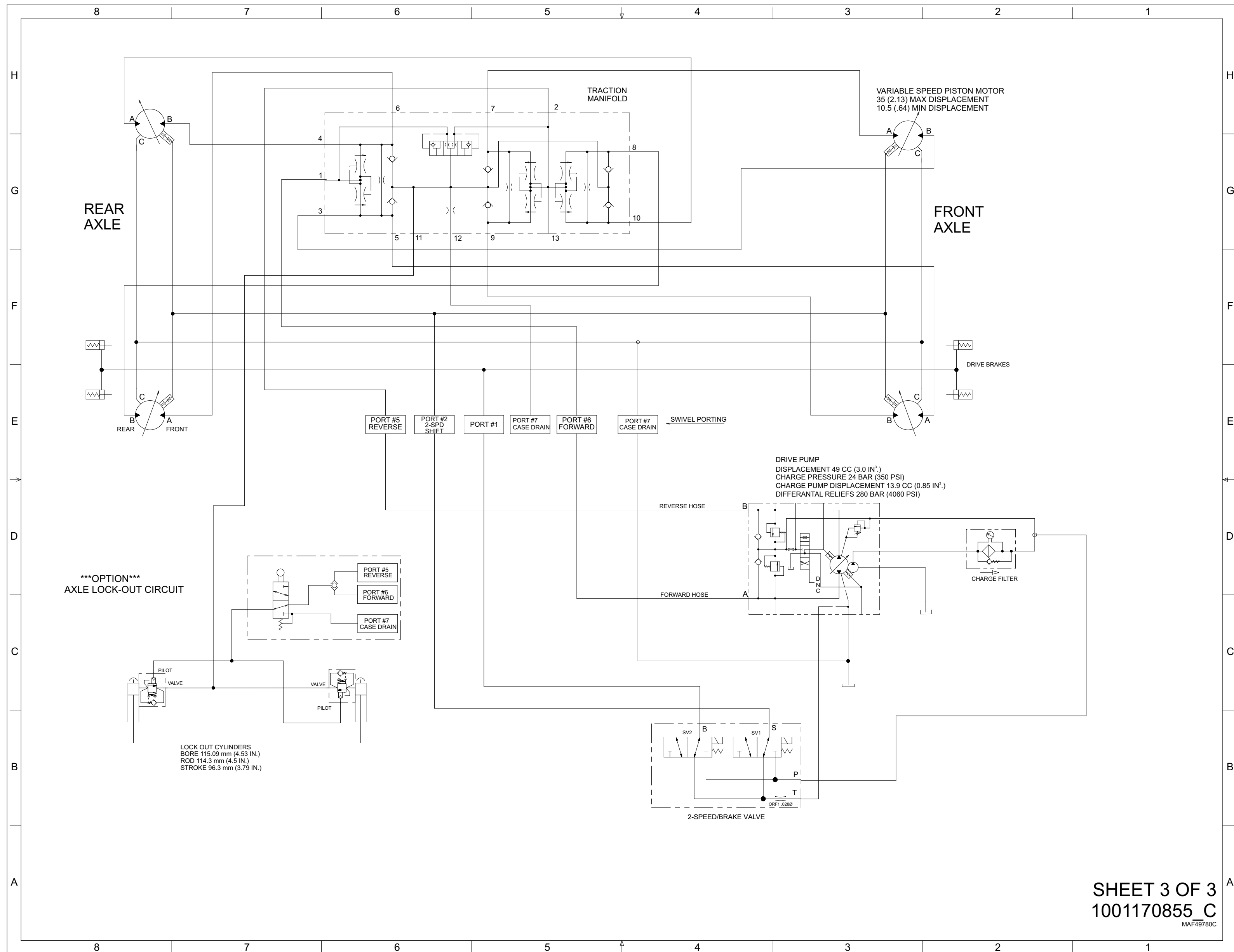


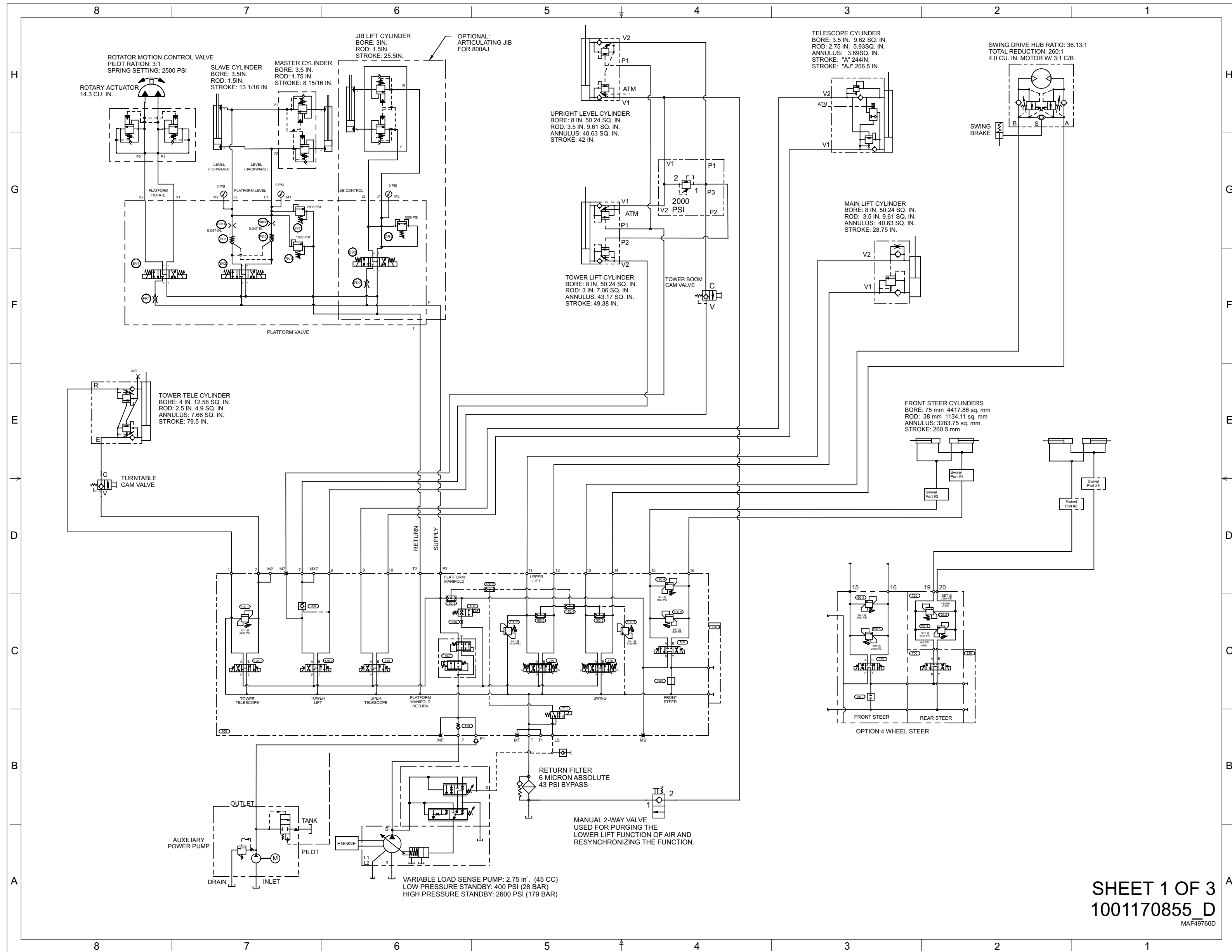
1.17 800A/800AJ

1.17.1 PVC 2001

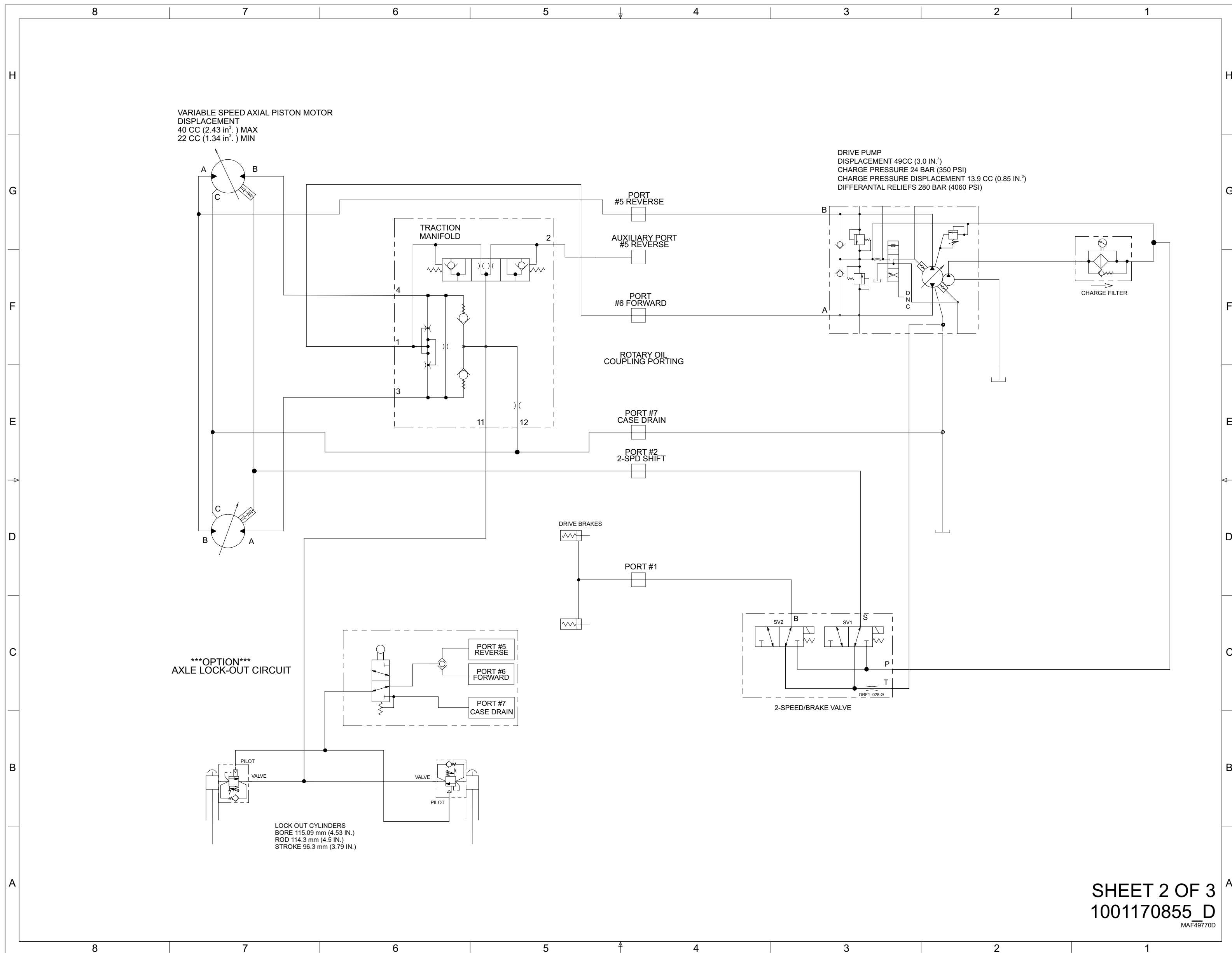


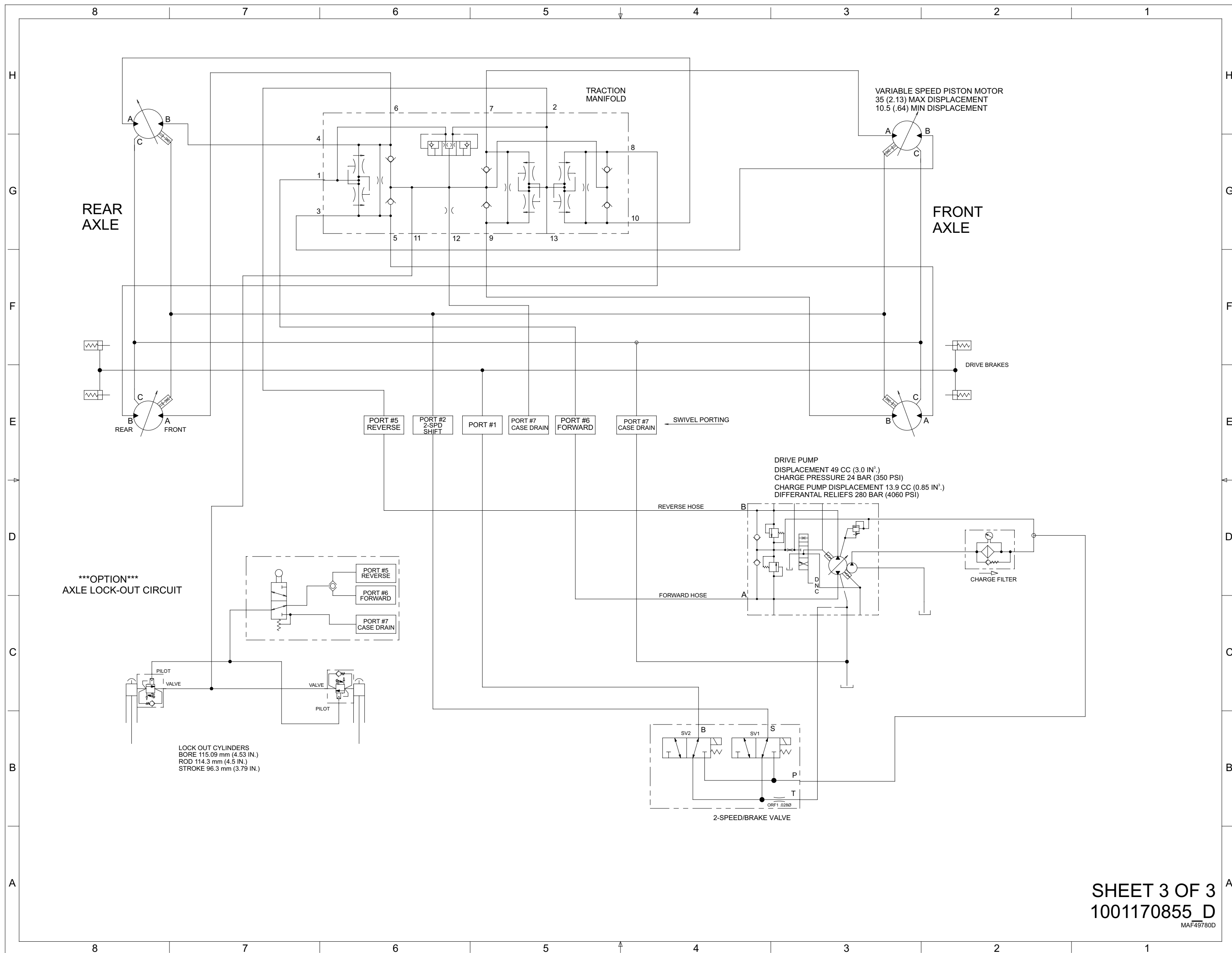






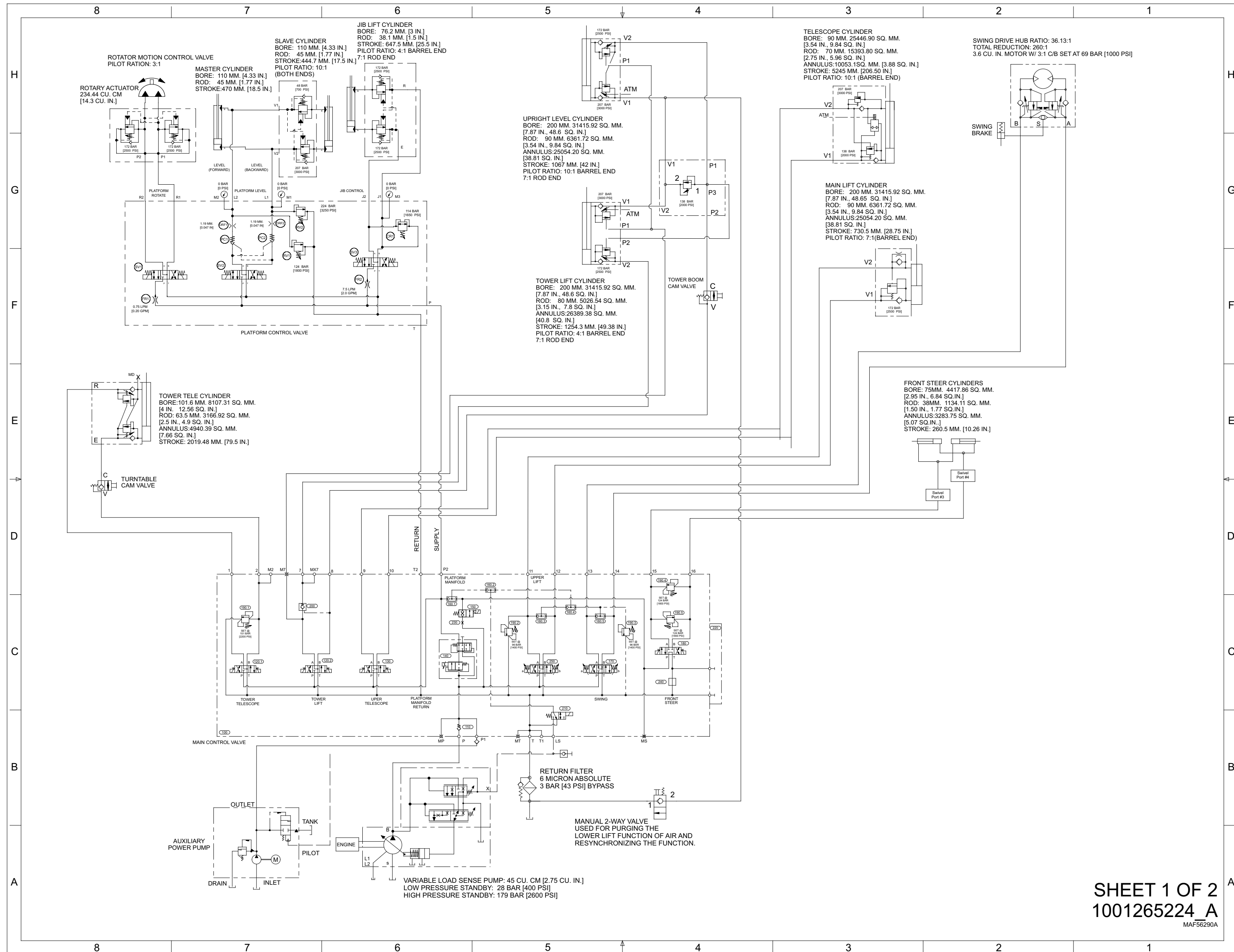
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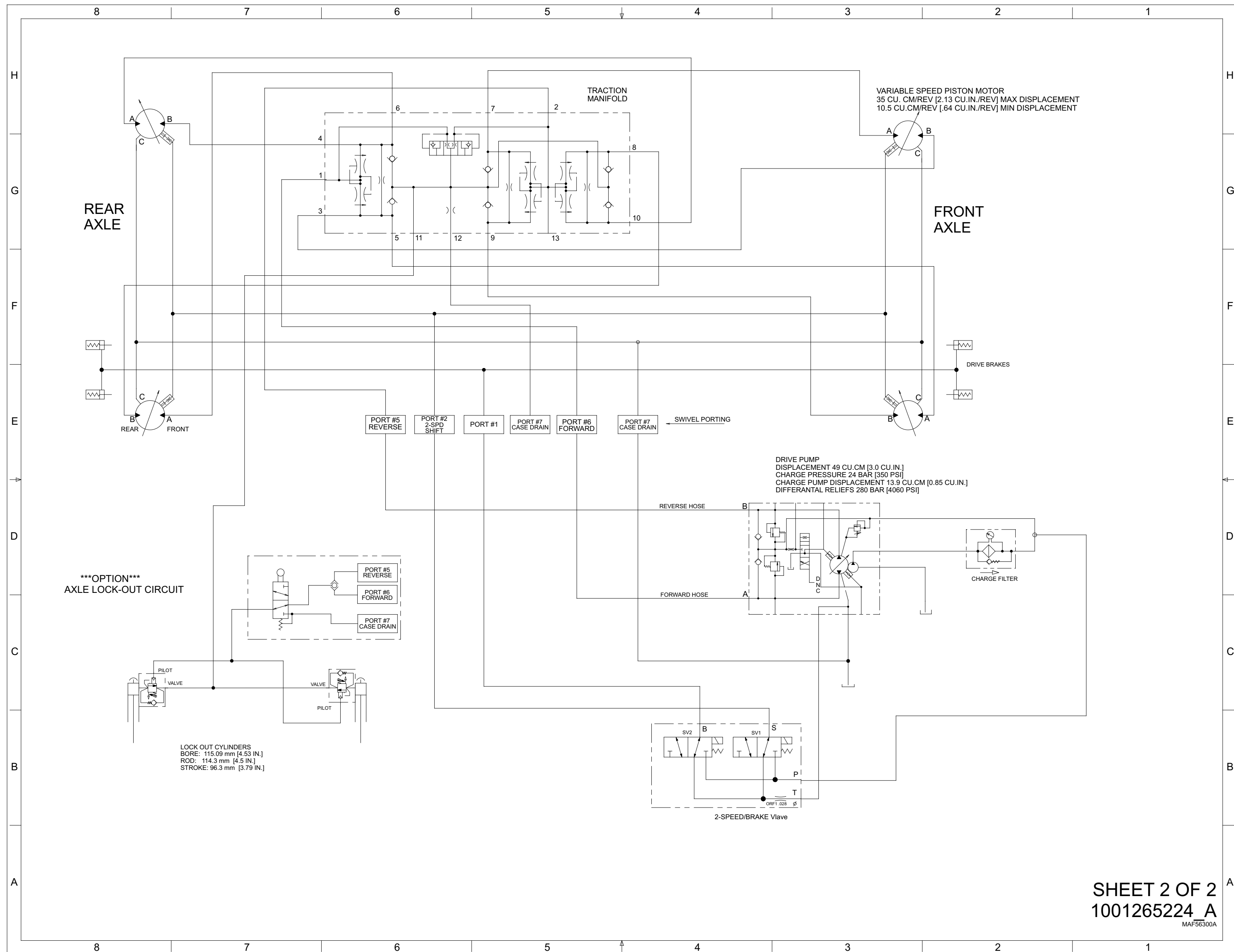


1.18 800AJ HC3

1.18.1 PVC 2001/PVC 2007

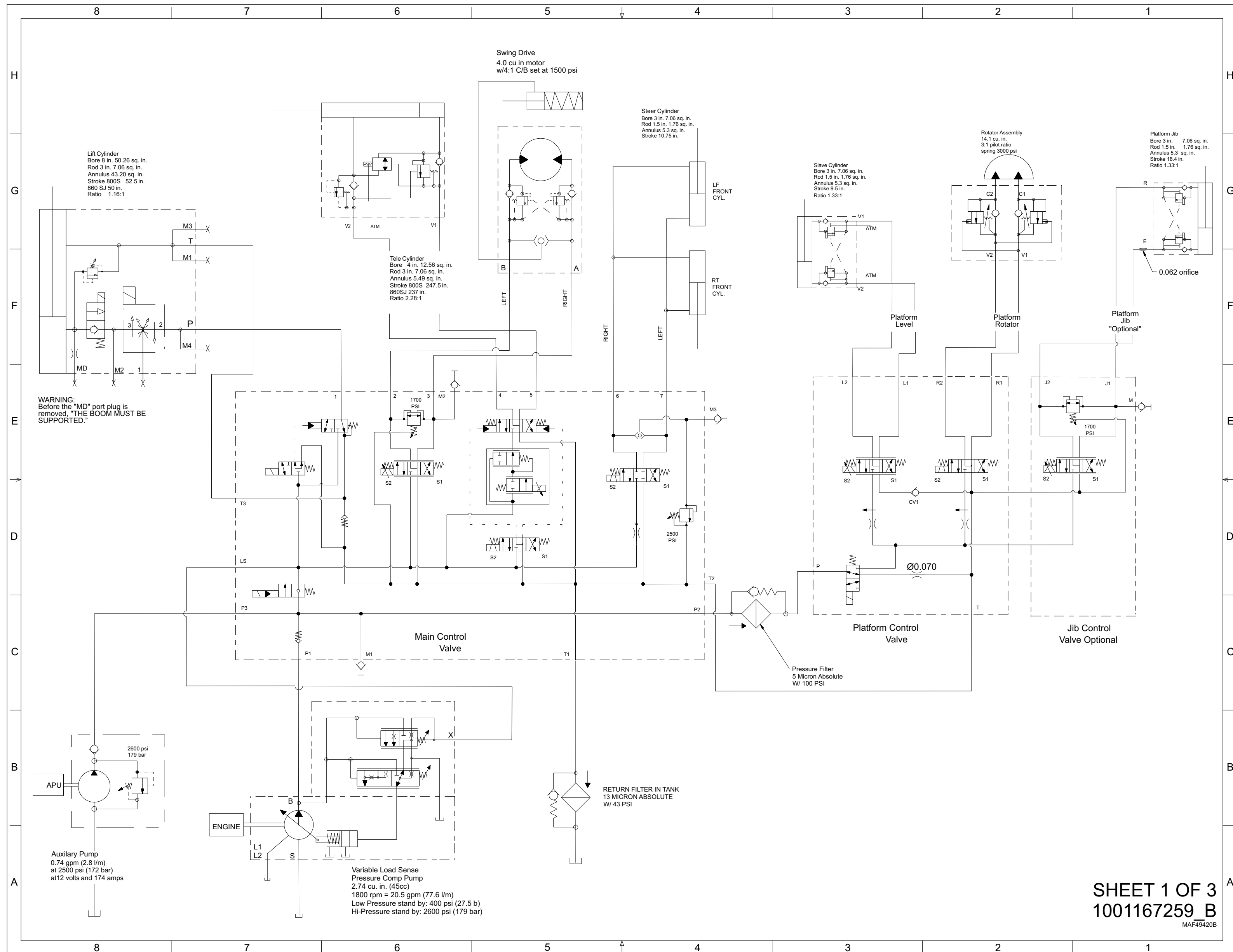


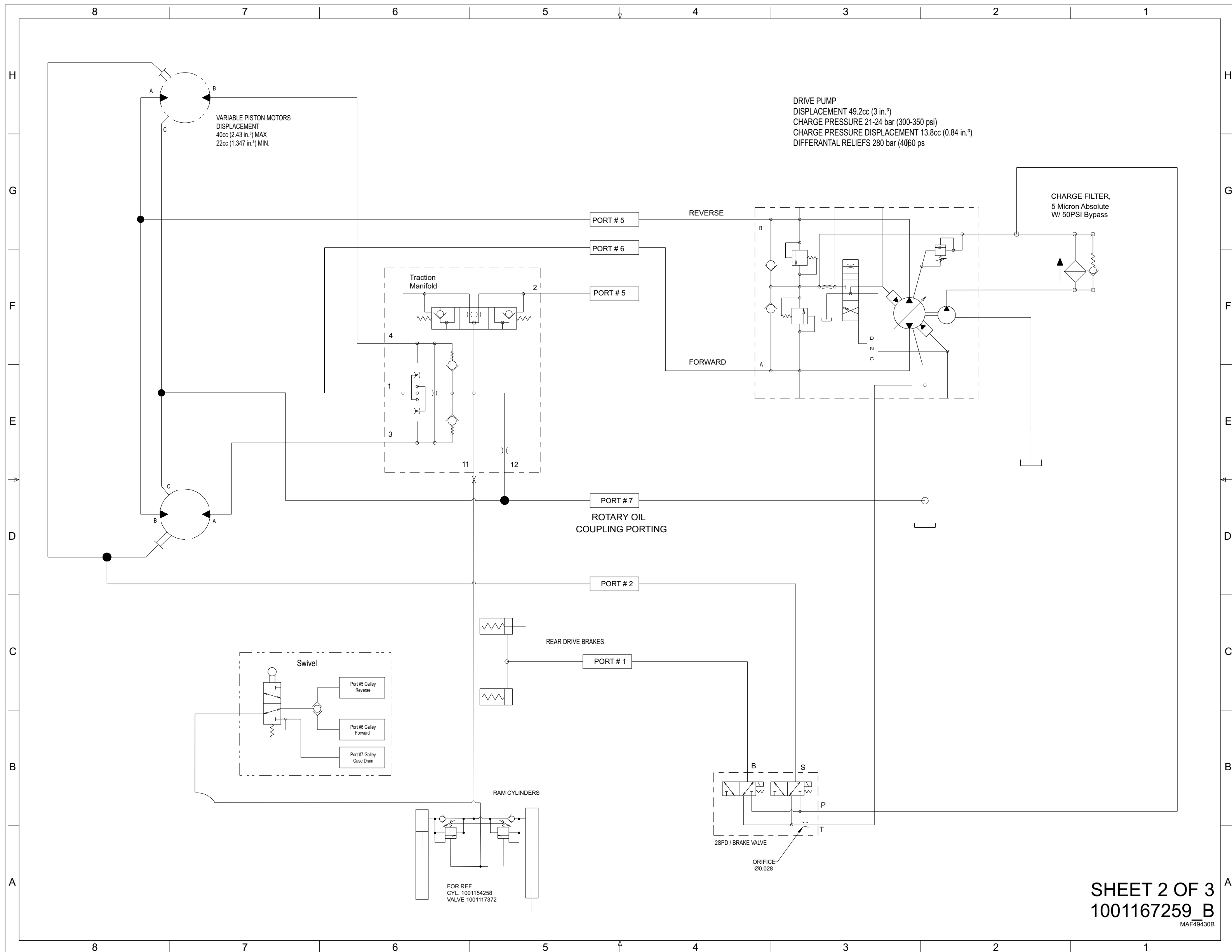
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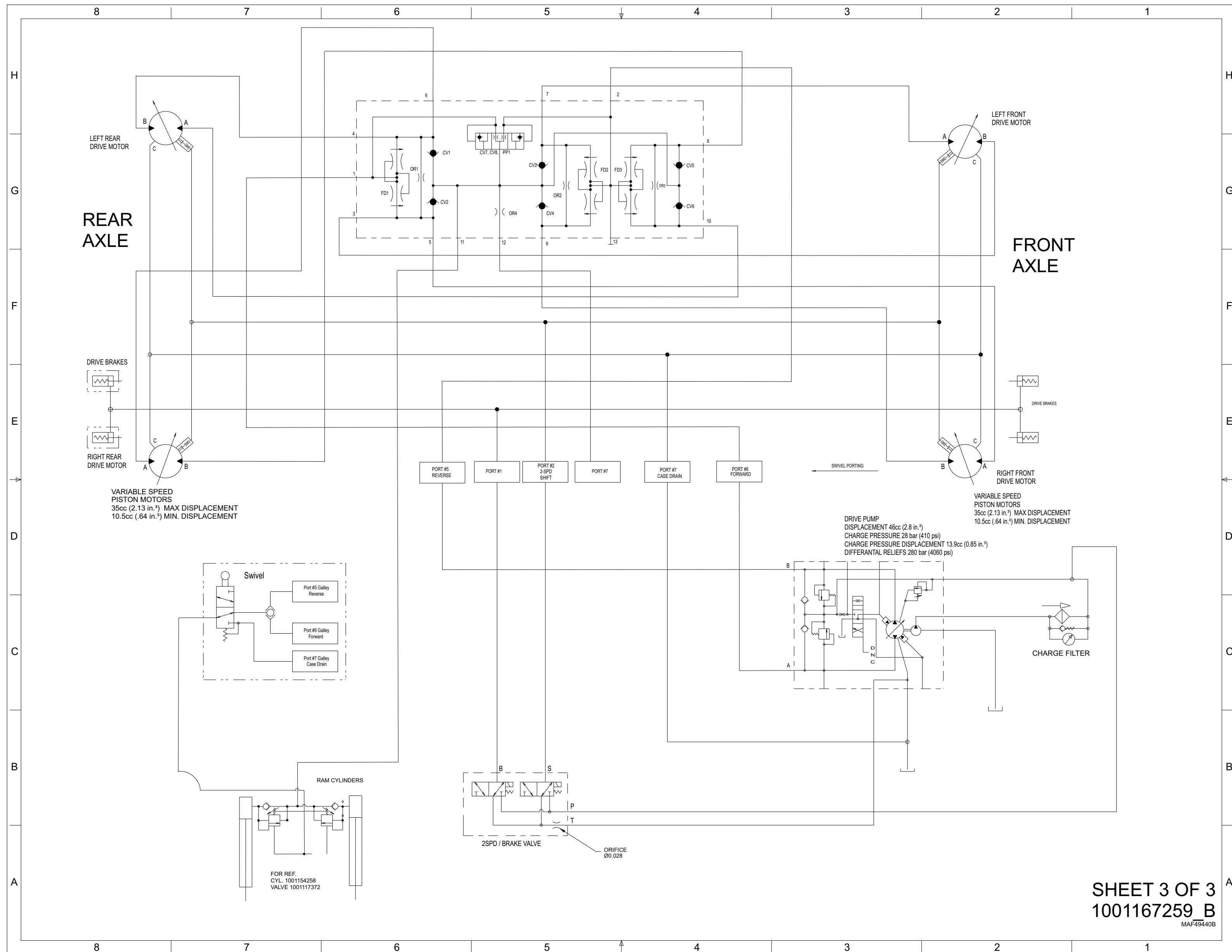


1.19 800S/860SJ

1.19.1 PVC 2001/PVC 2007



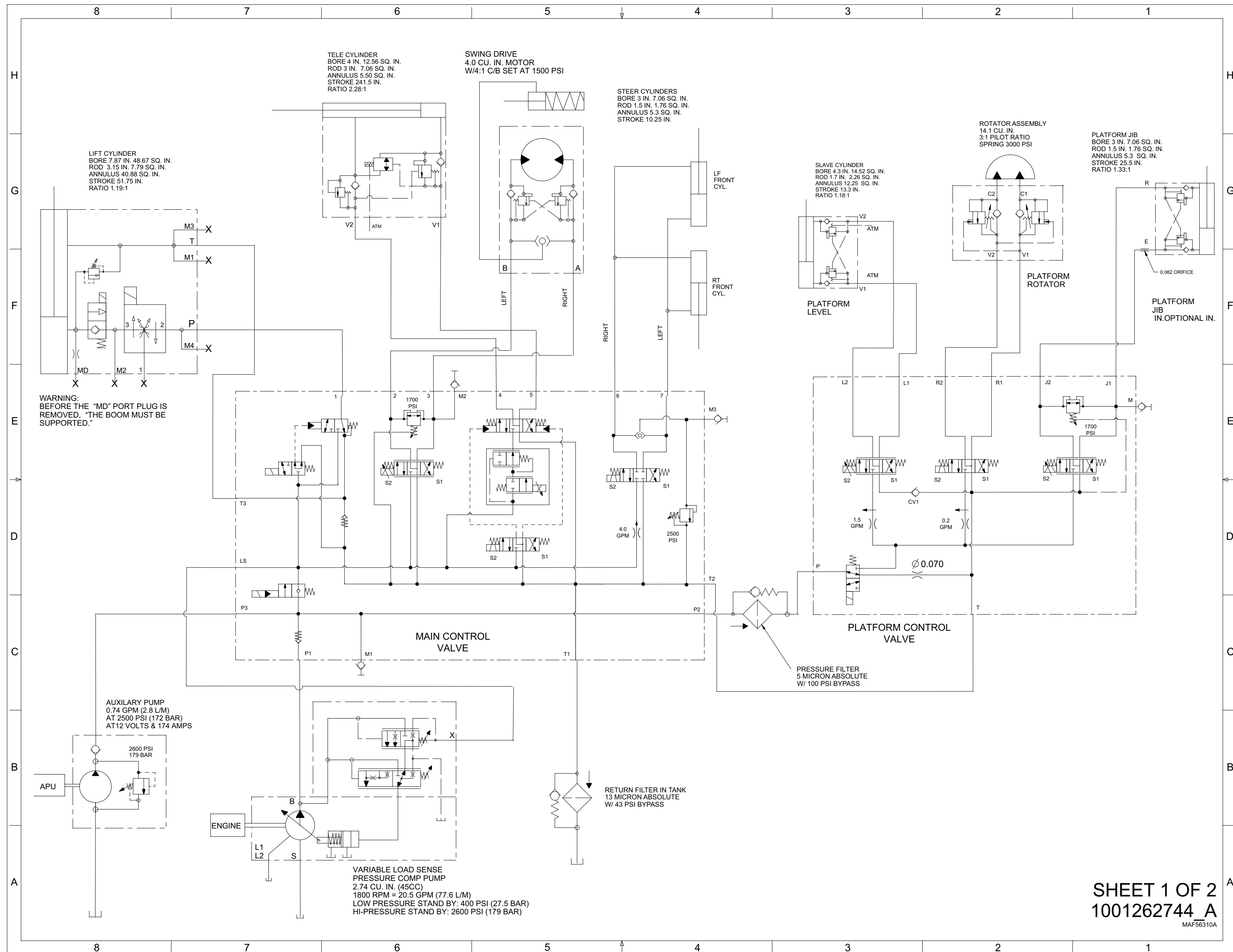


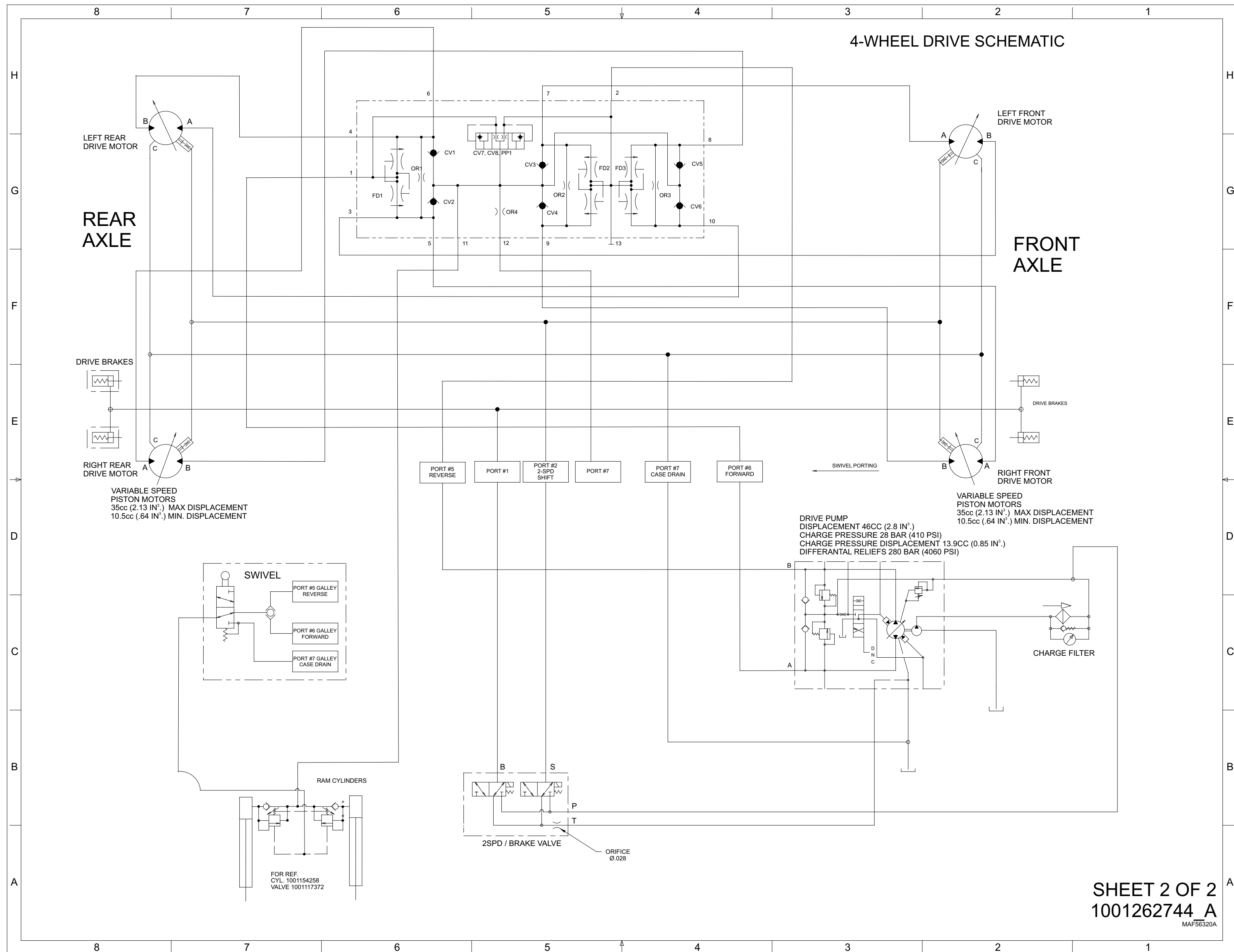


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MAF49440B

1.20 8005/8605J HC3

1.20.1 PVC 2007

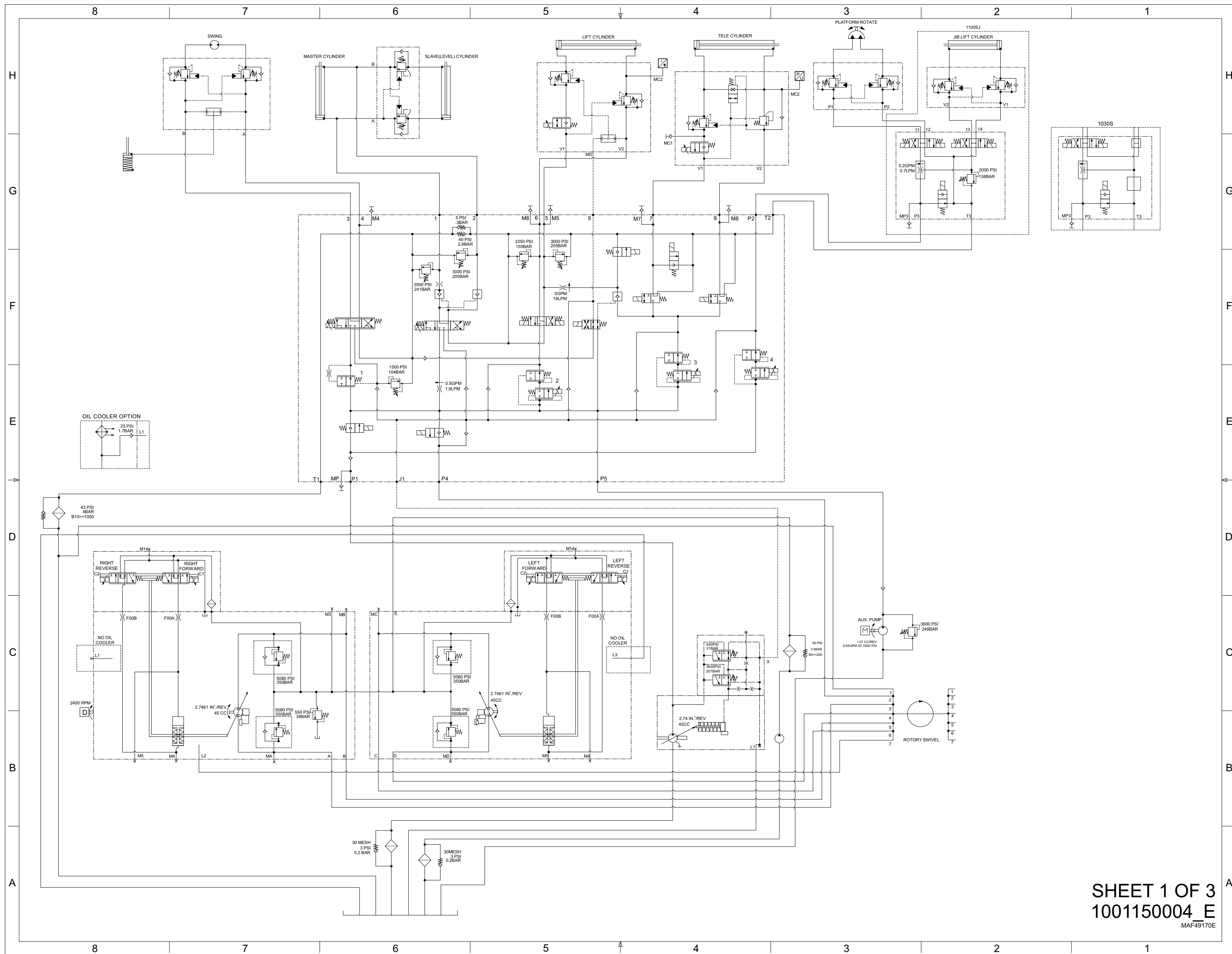




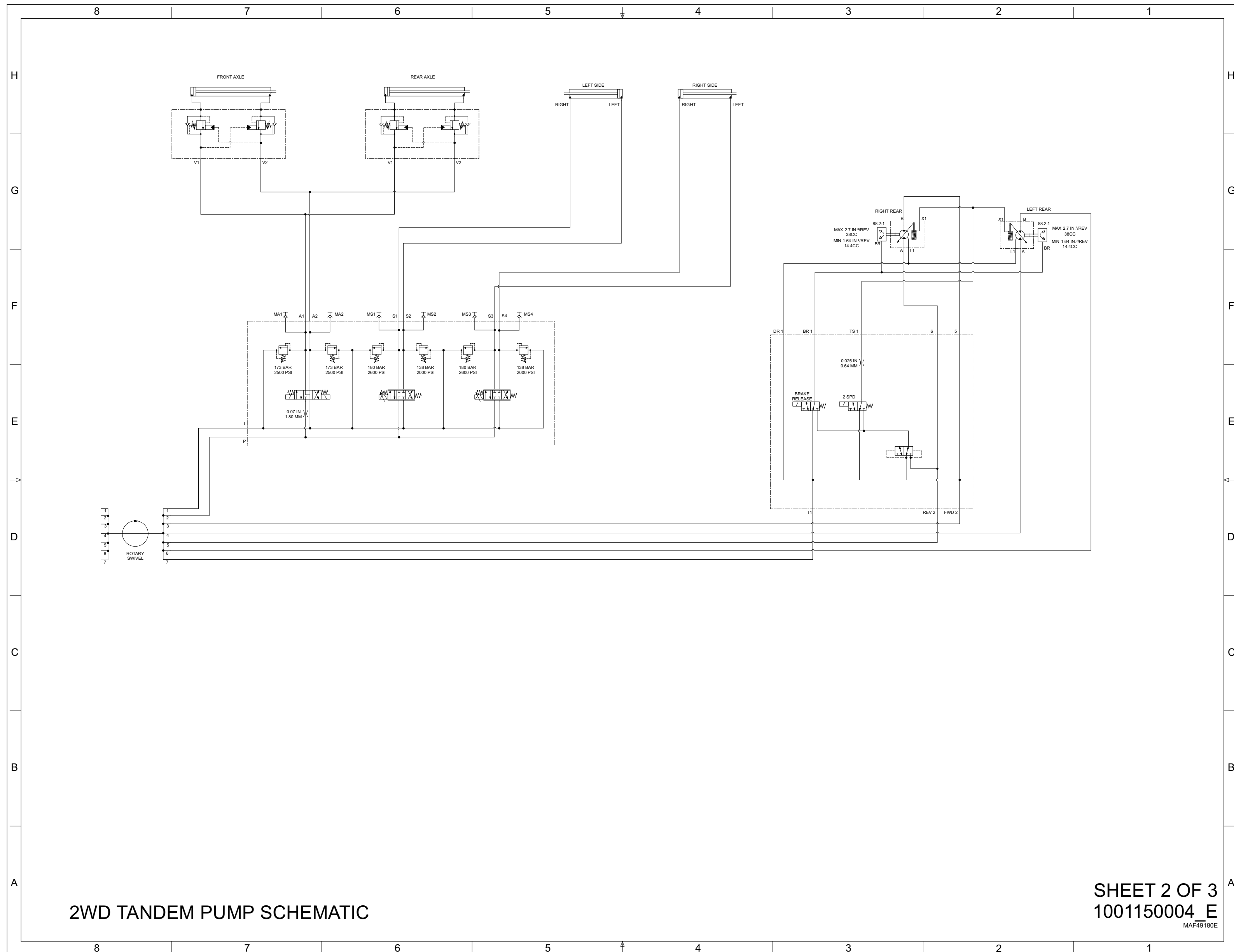
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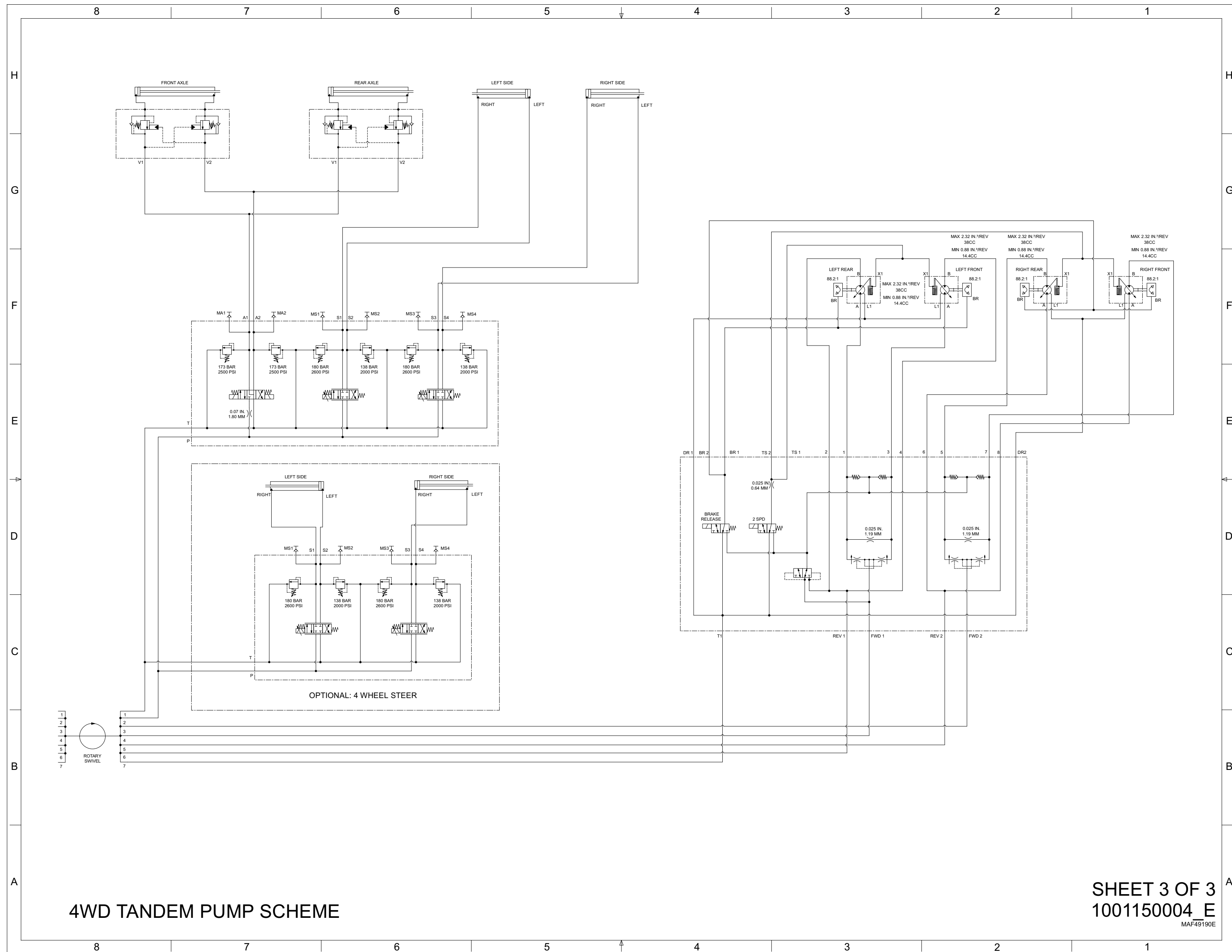
1.21 1100SJ

1.21.1 PVC 2001/PVC 2007



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MAF49170E



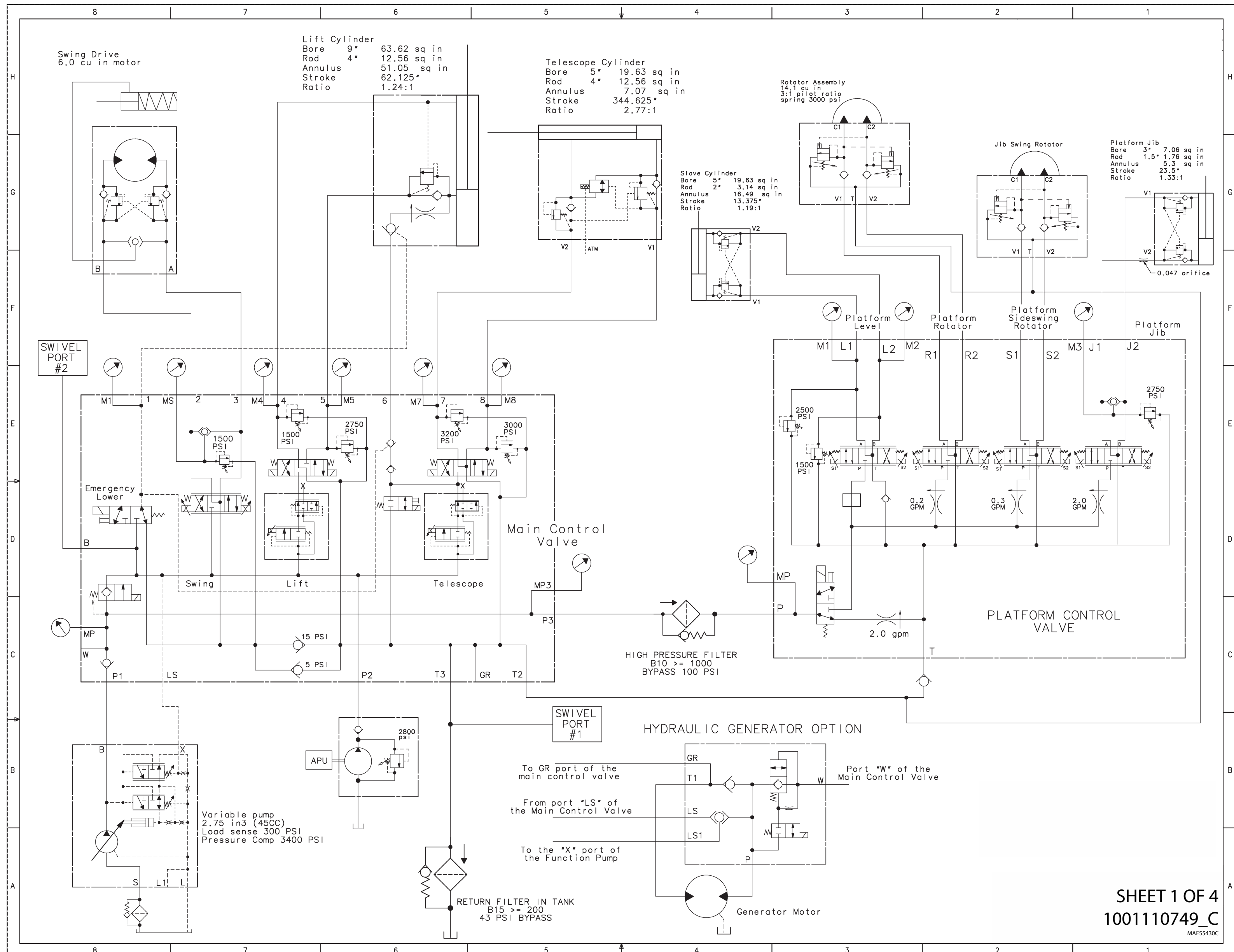


4WD TANDEM PUMP SCHEME

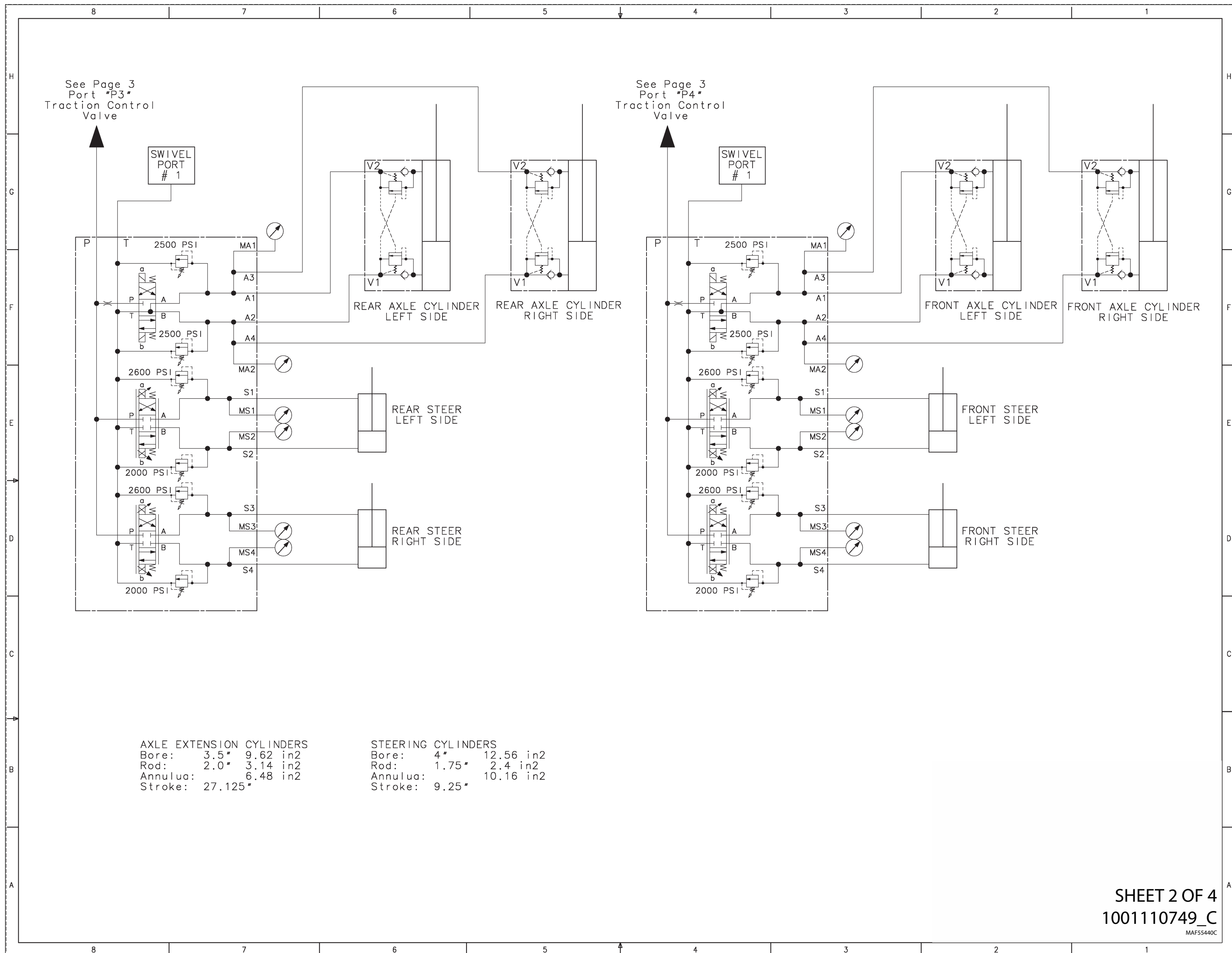
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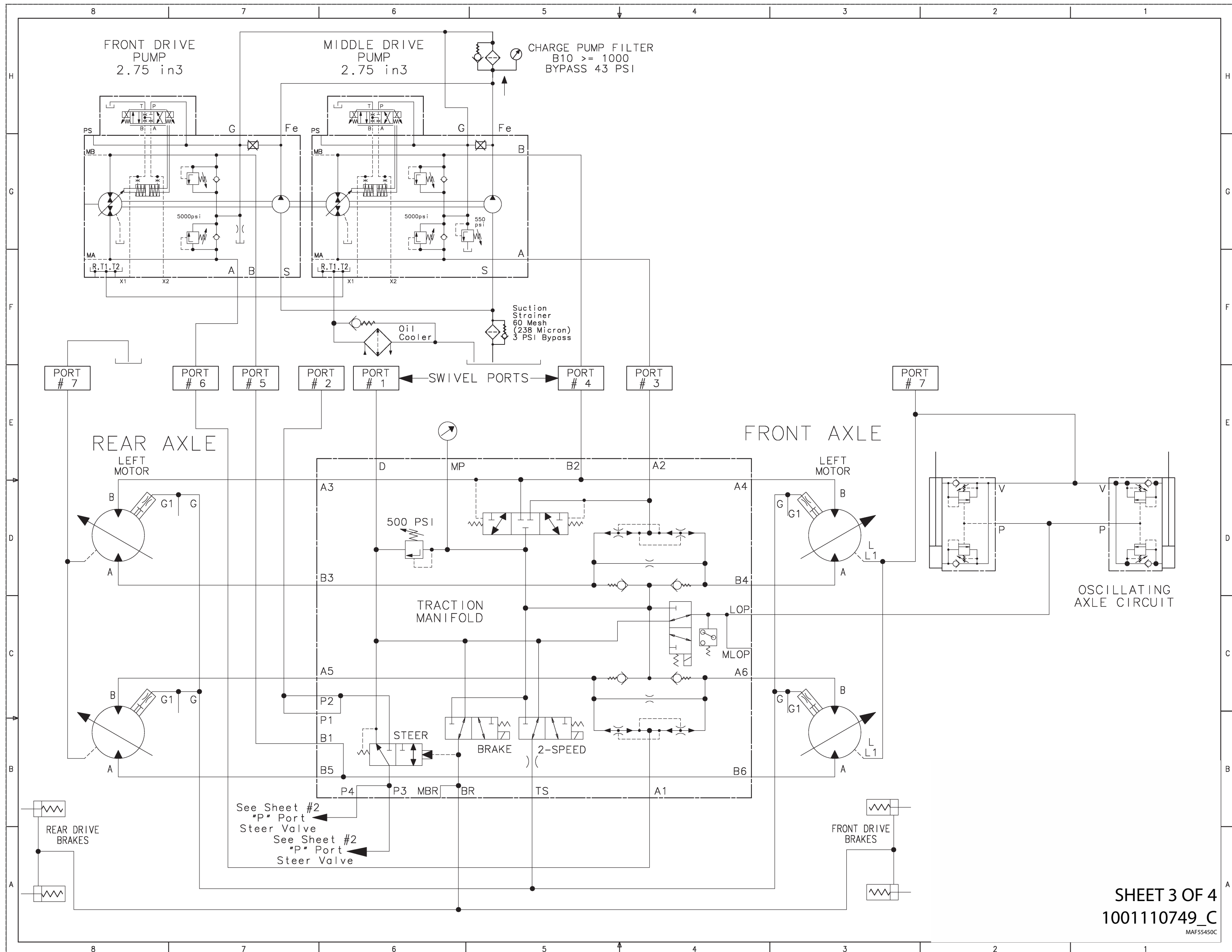
1.22 1200SJP/1350SJP

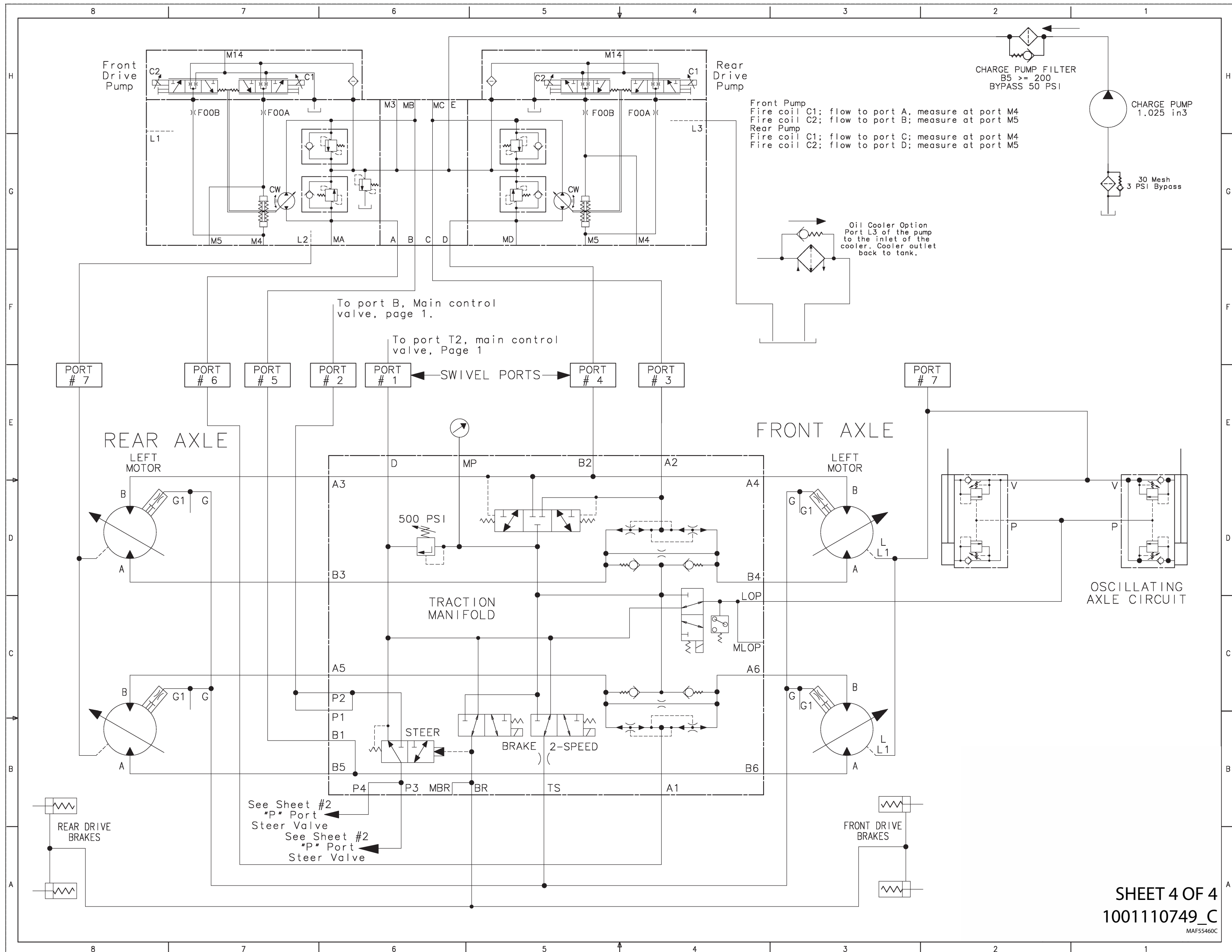
1.22.1 PVC 2001/PVC 2007



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 MAF55430C

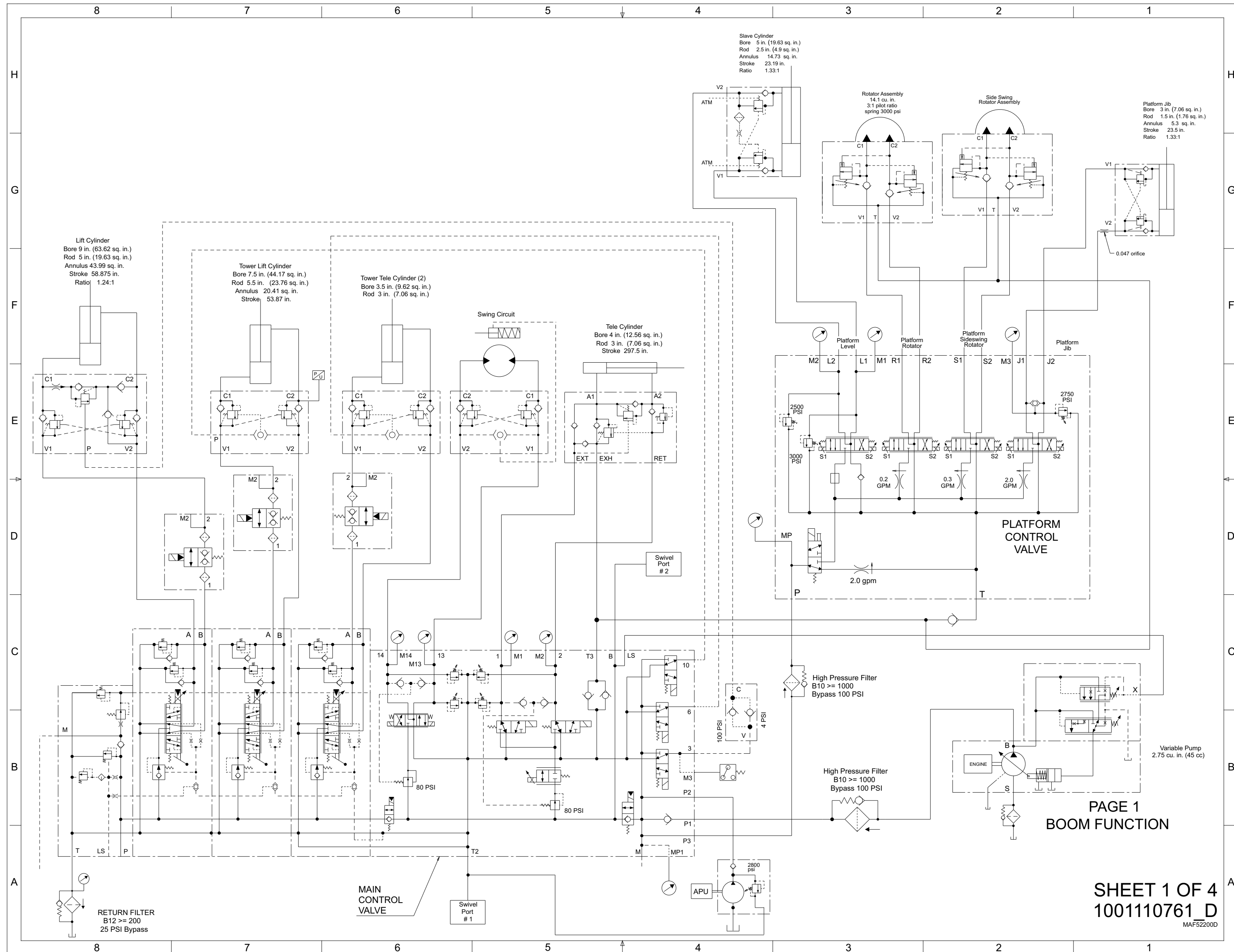






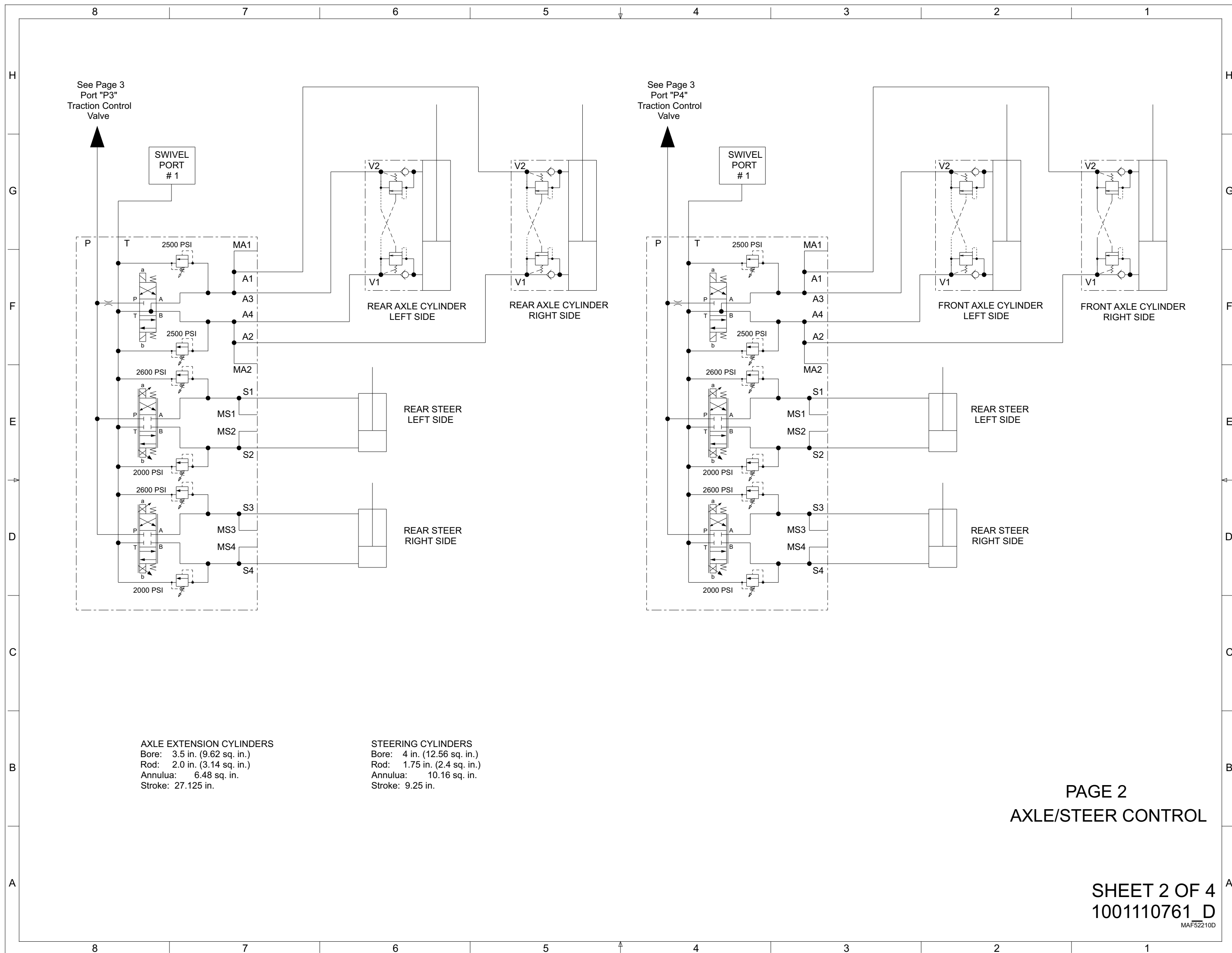
1.23 1250AJP

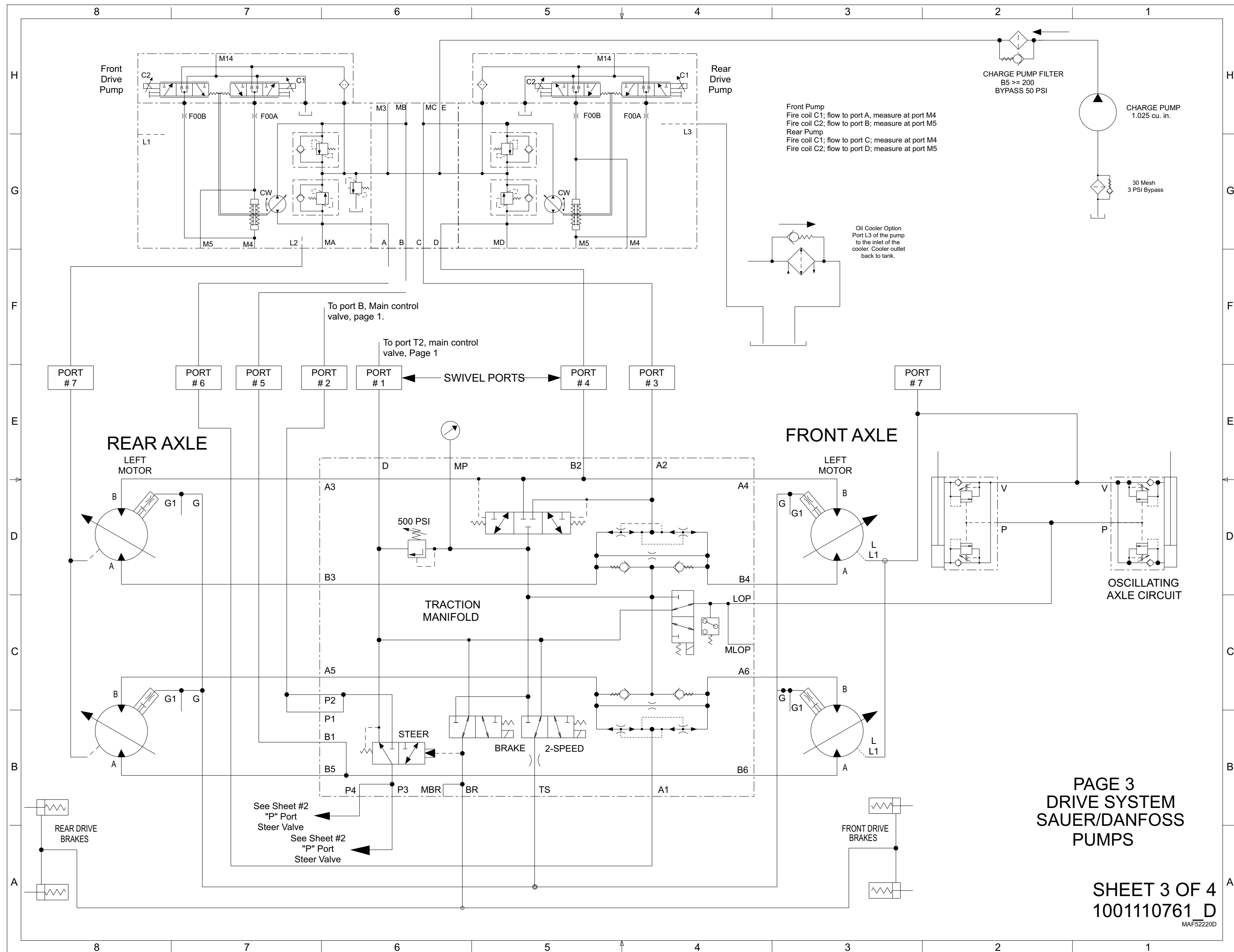
1.23.1 PVC 2001/PVC 2007

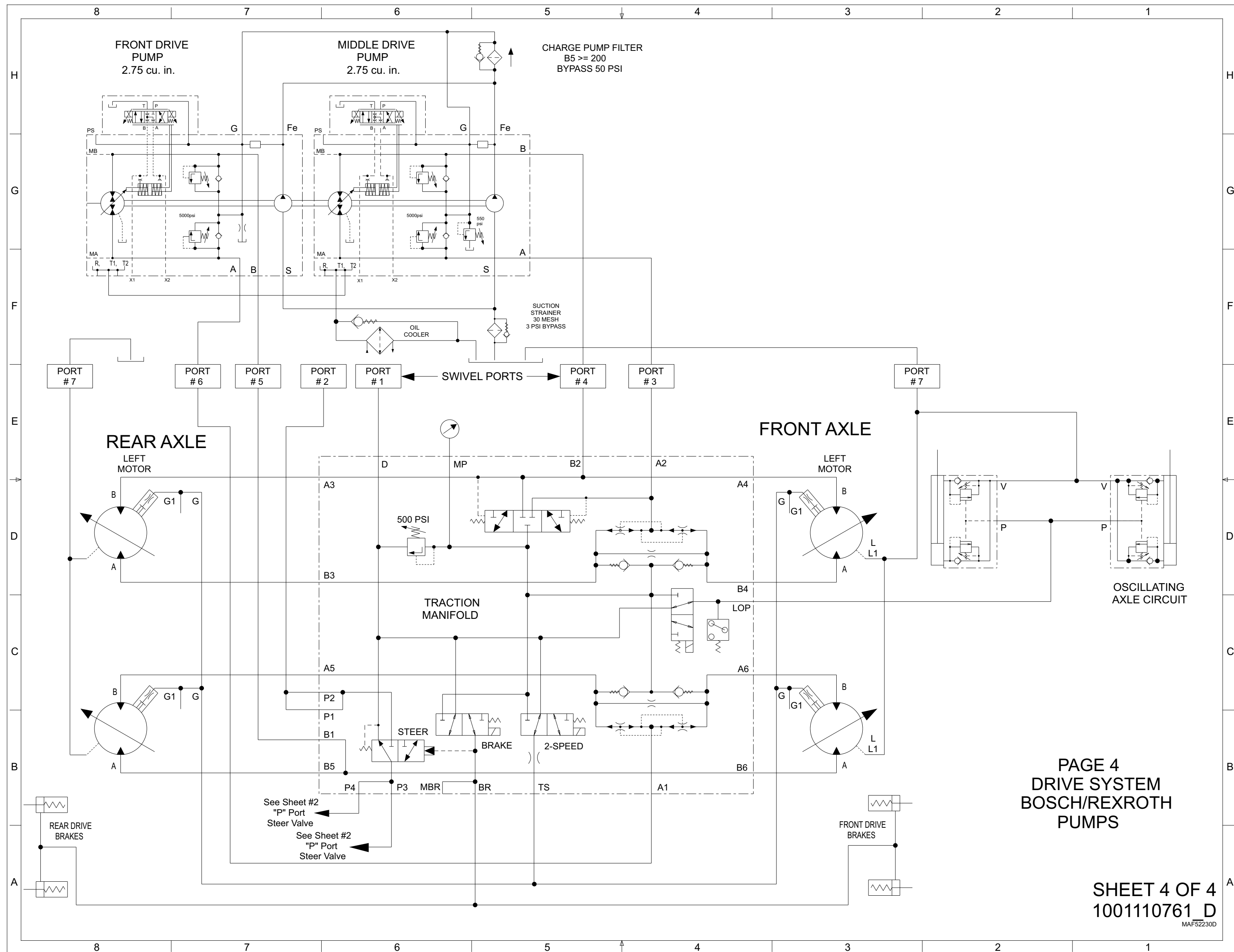


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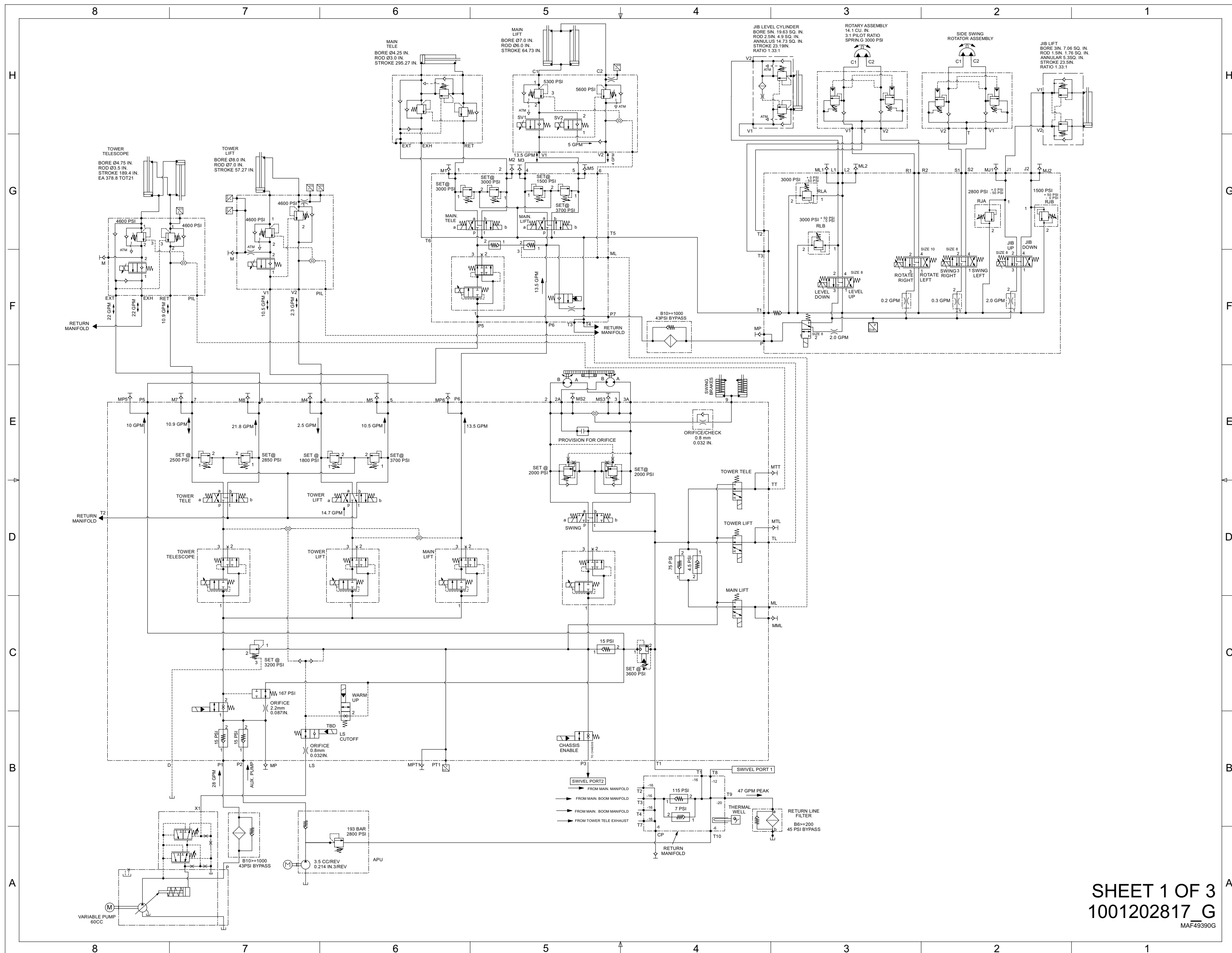




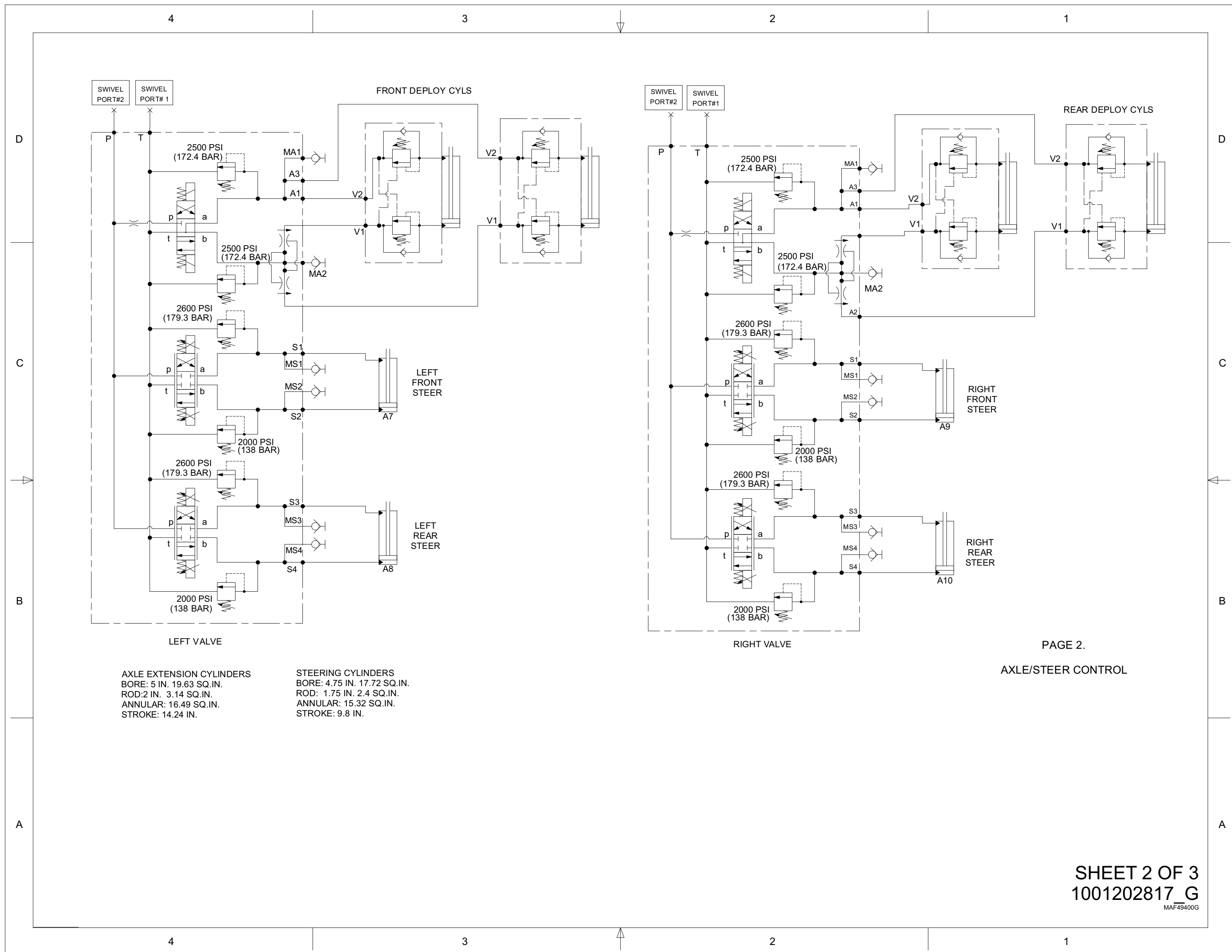


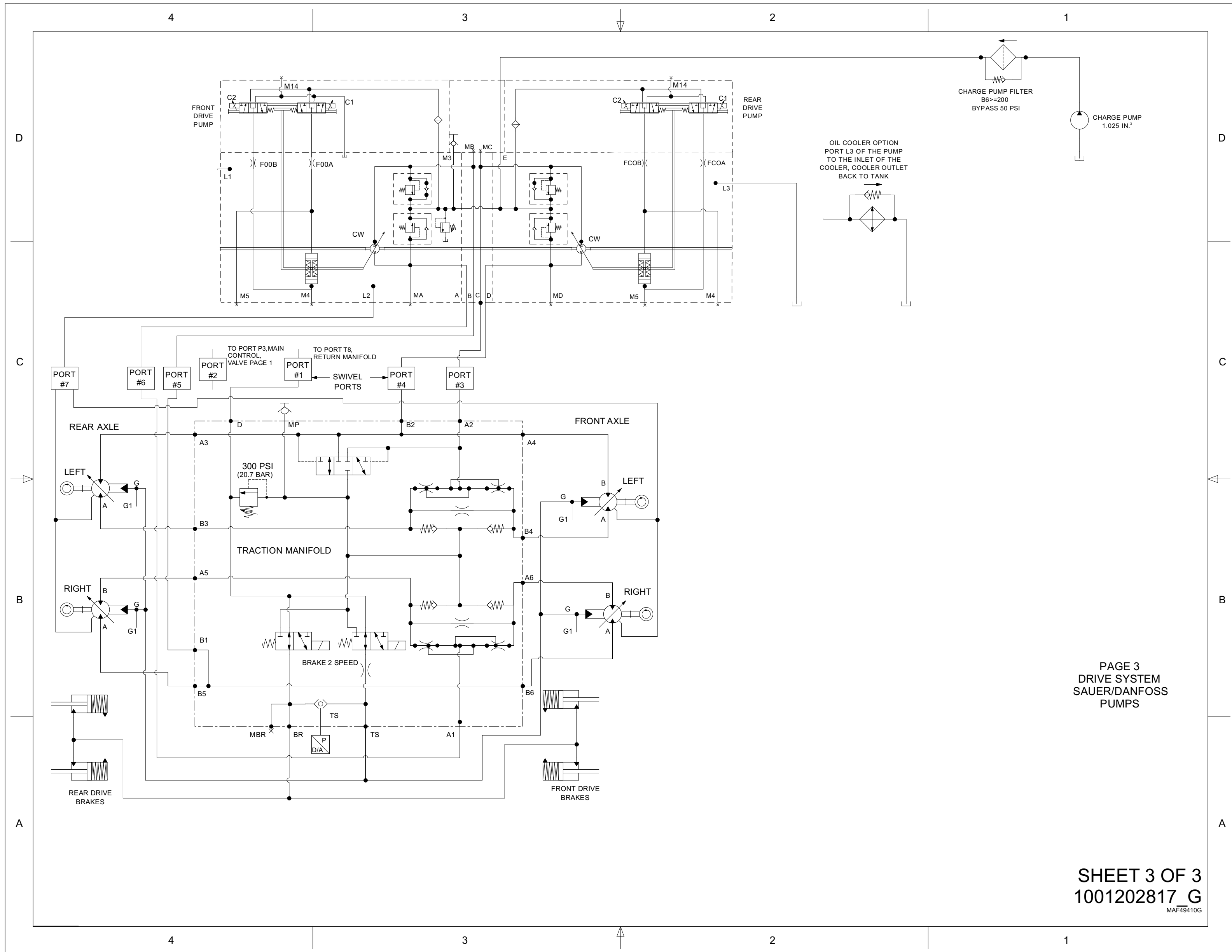
1.24 1500AJP

1.24.1 PVC 2001/PVC 2007



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MAF49390G



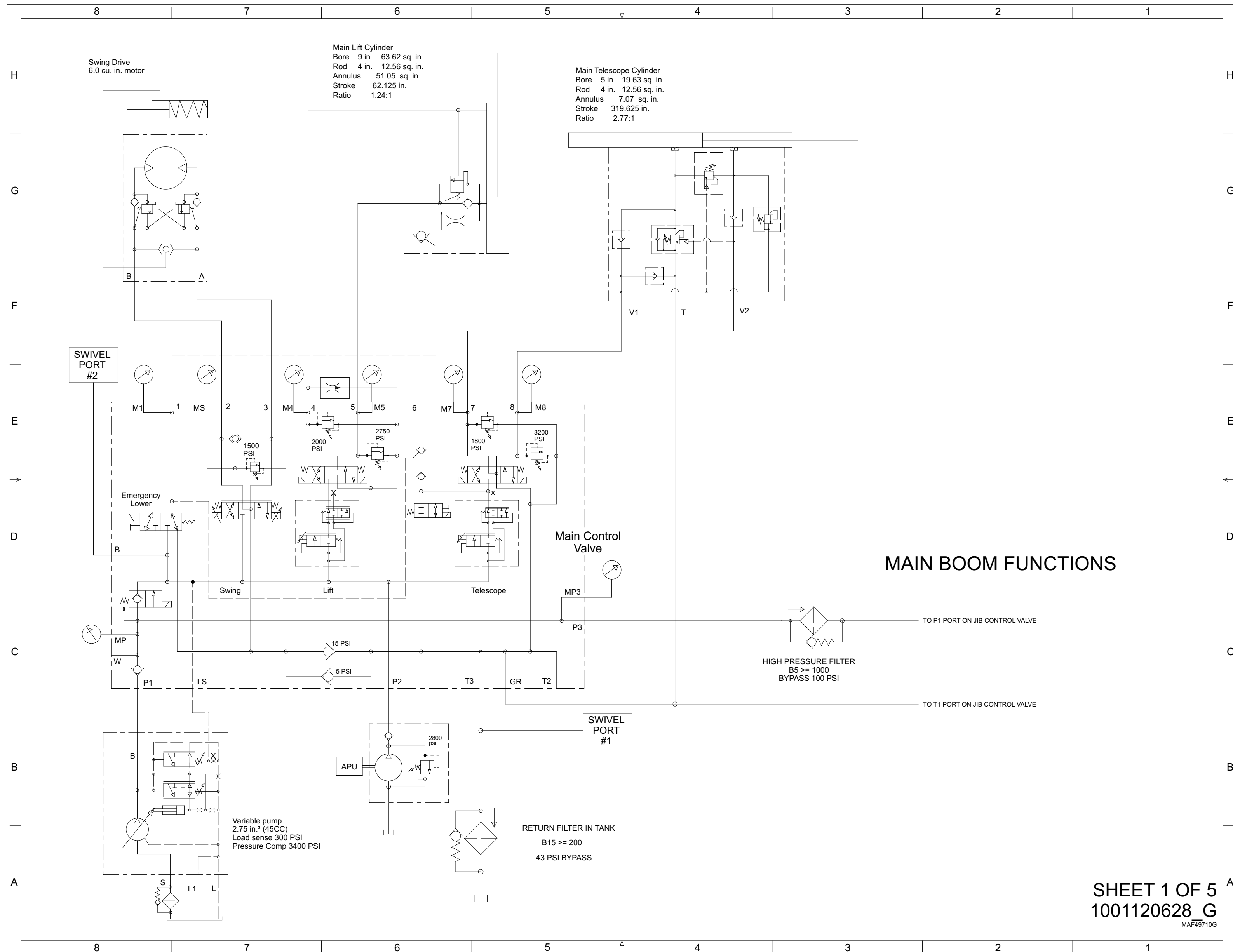


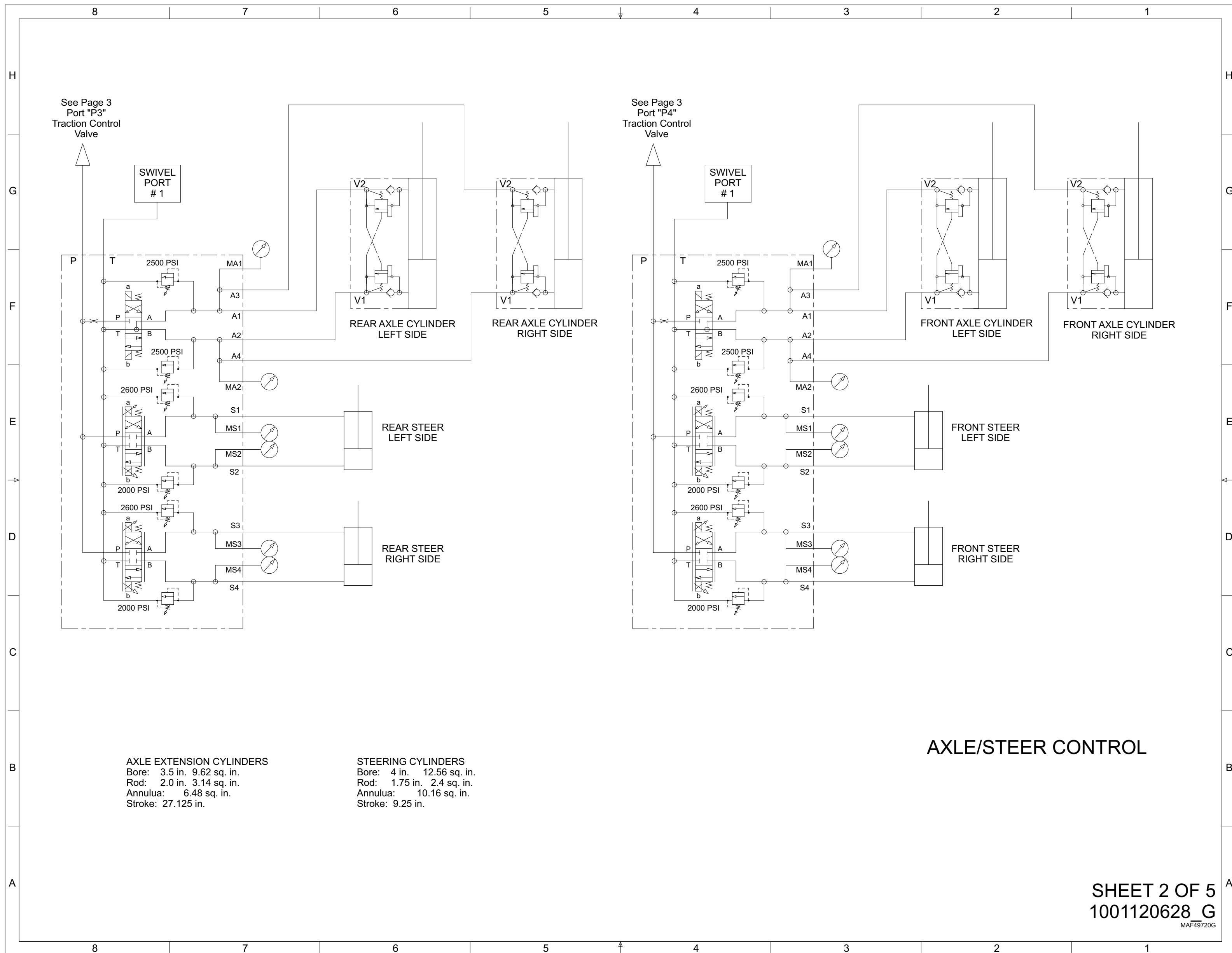
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DRIVE SYSTEM
SAUER/DANFOSS
PUMPS

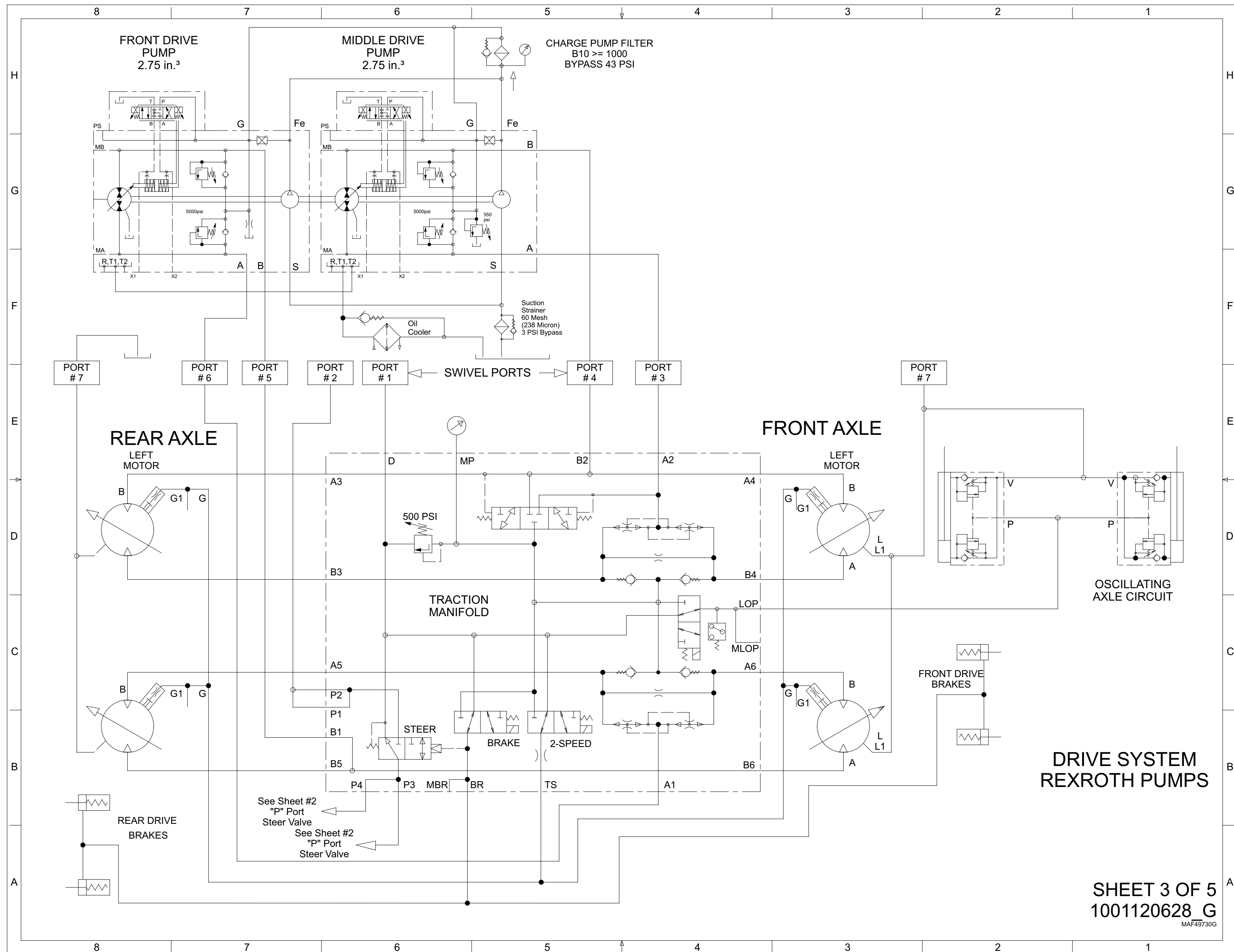
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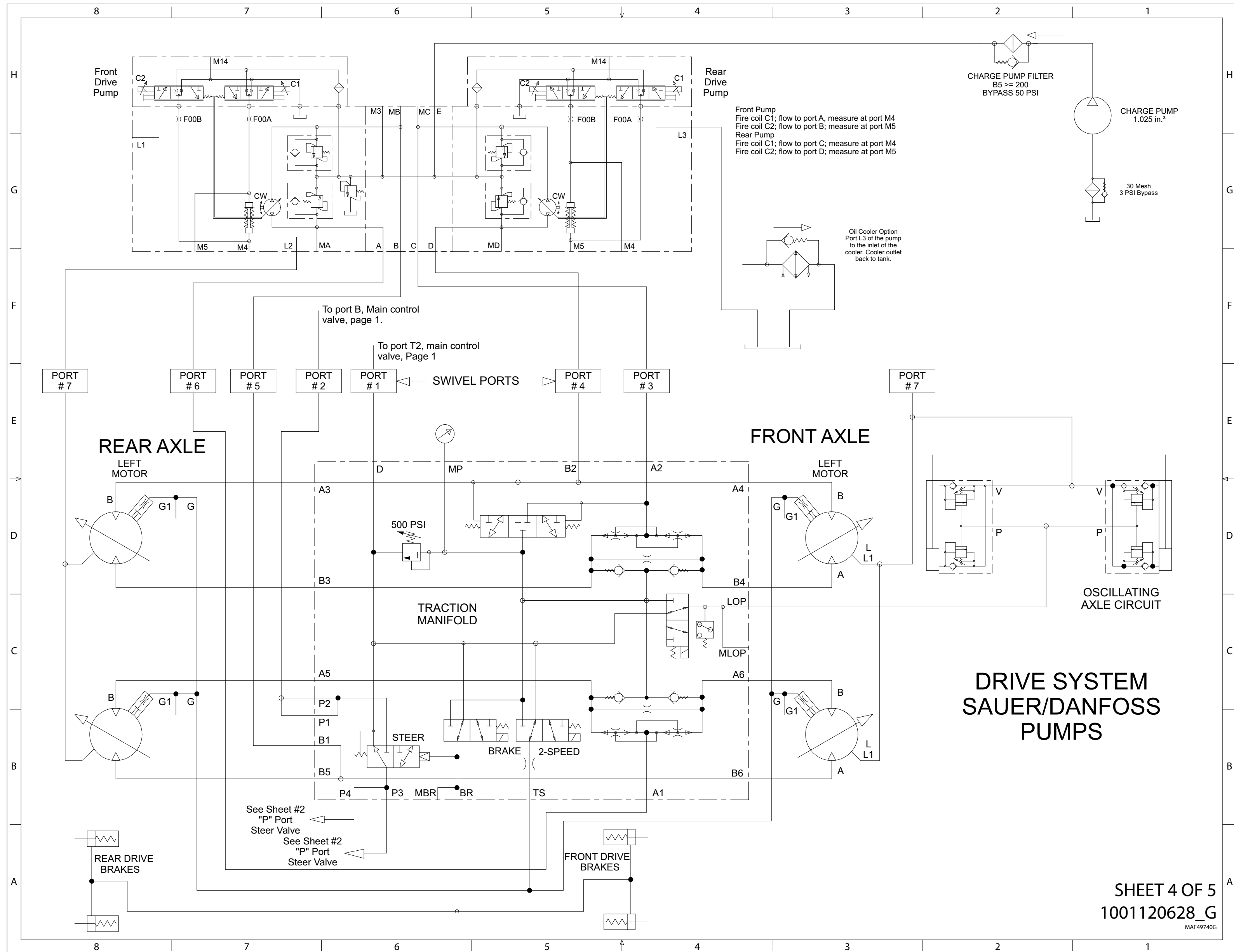
1.25 1500SJ

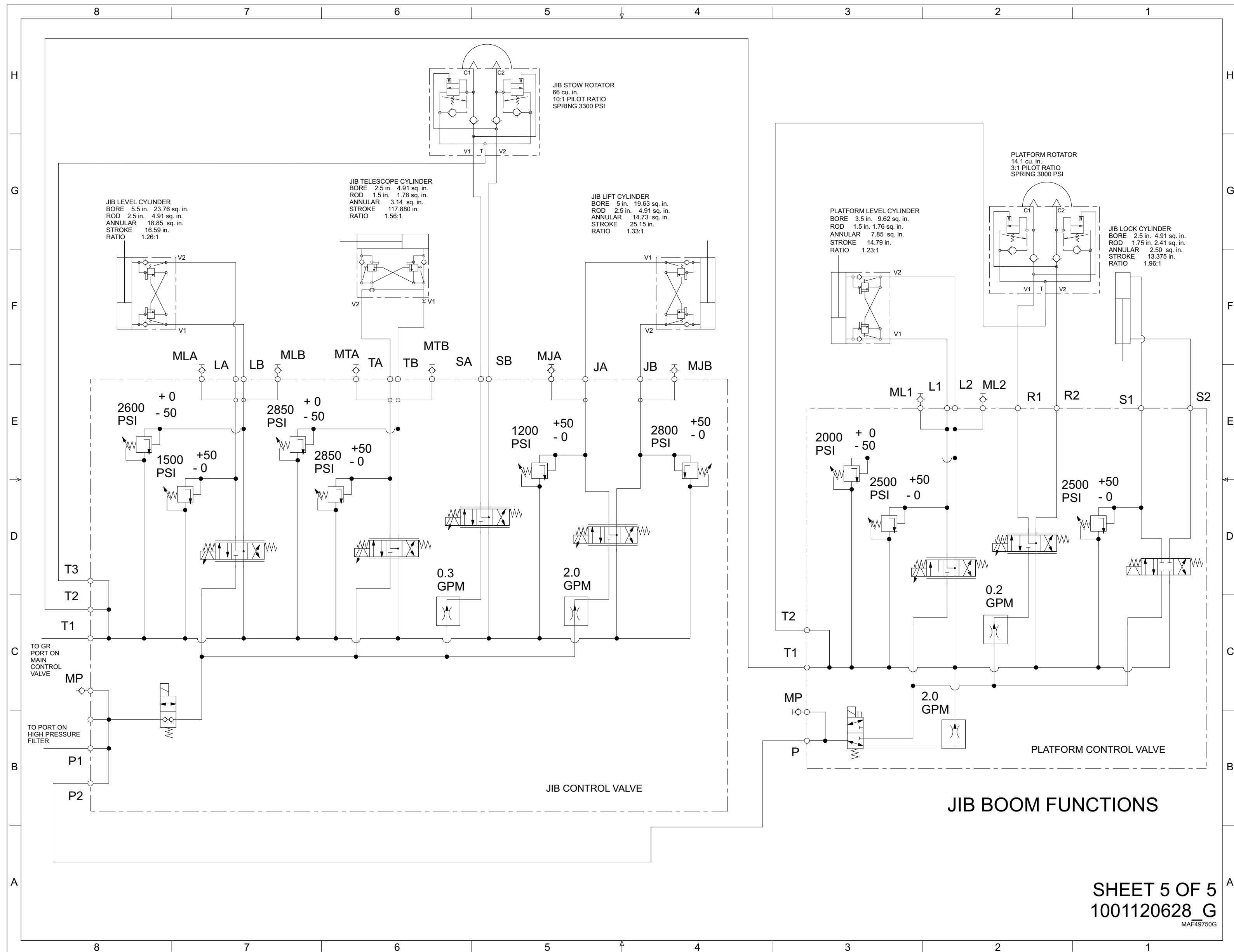
1.25.1 PVC 2001/PVC 2007





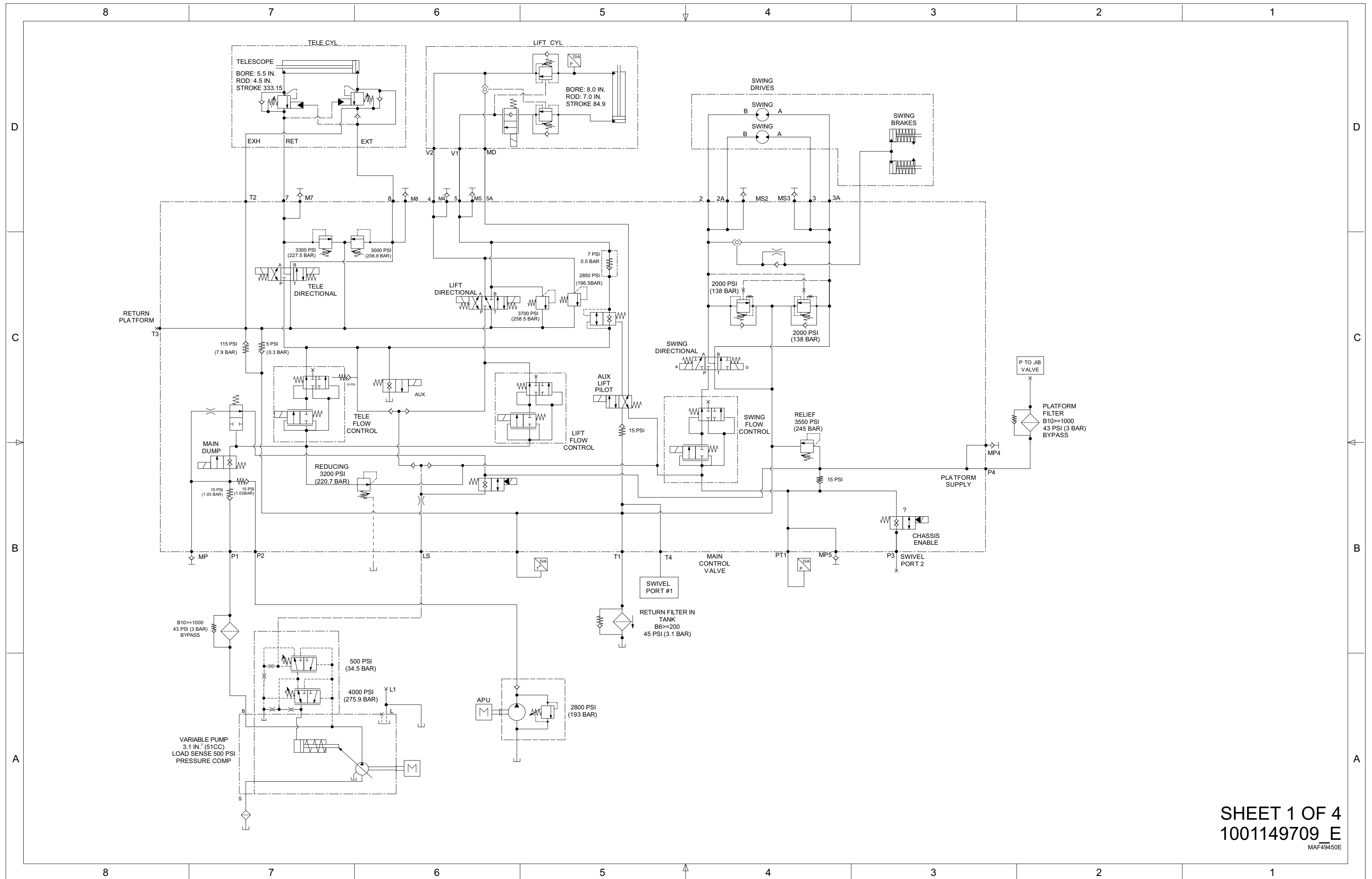




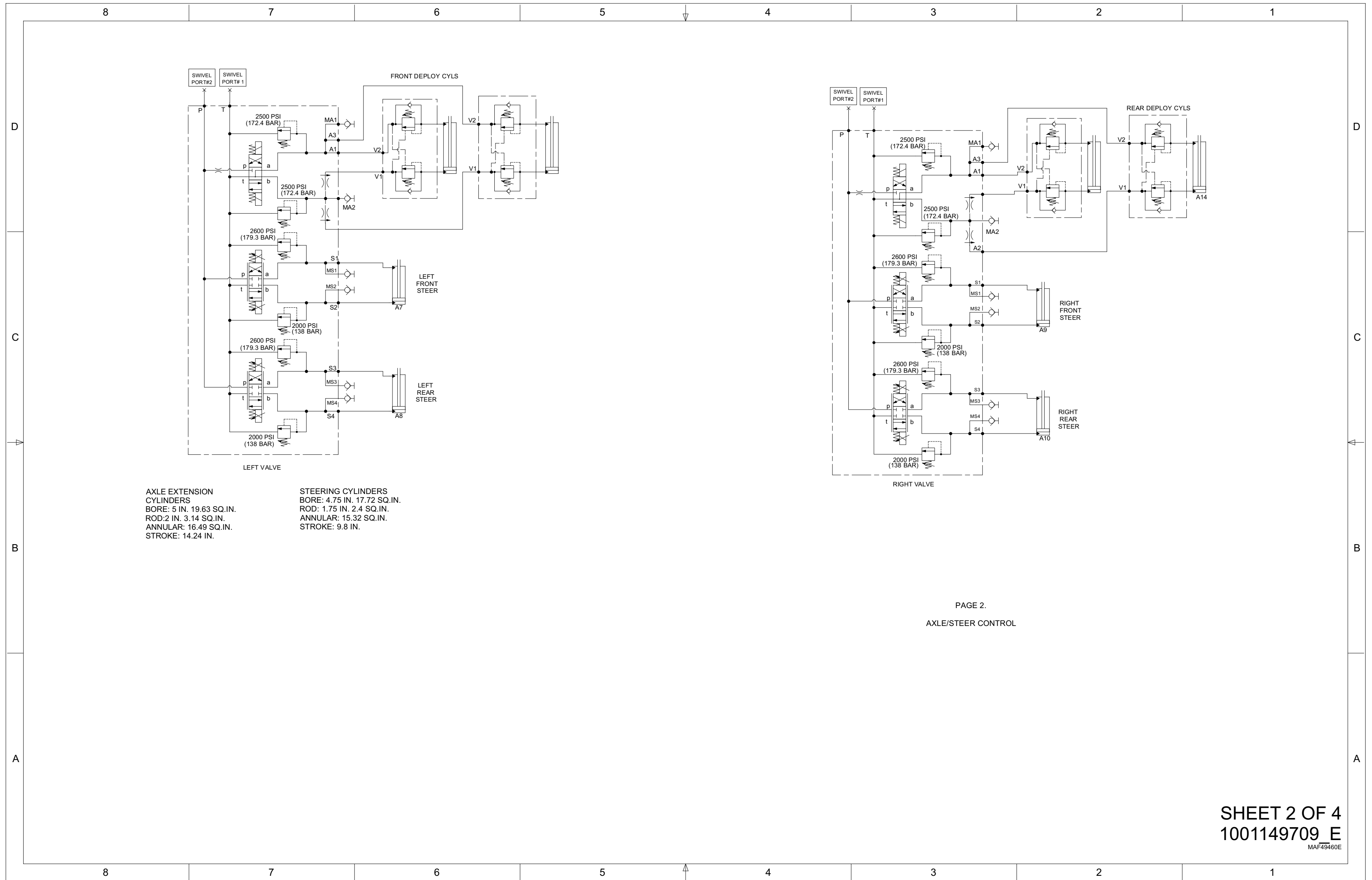


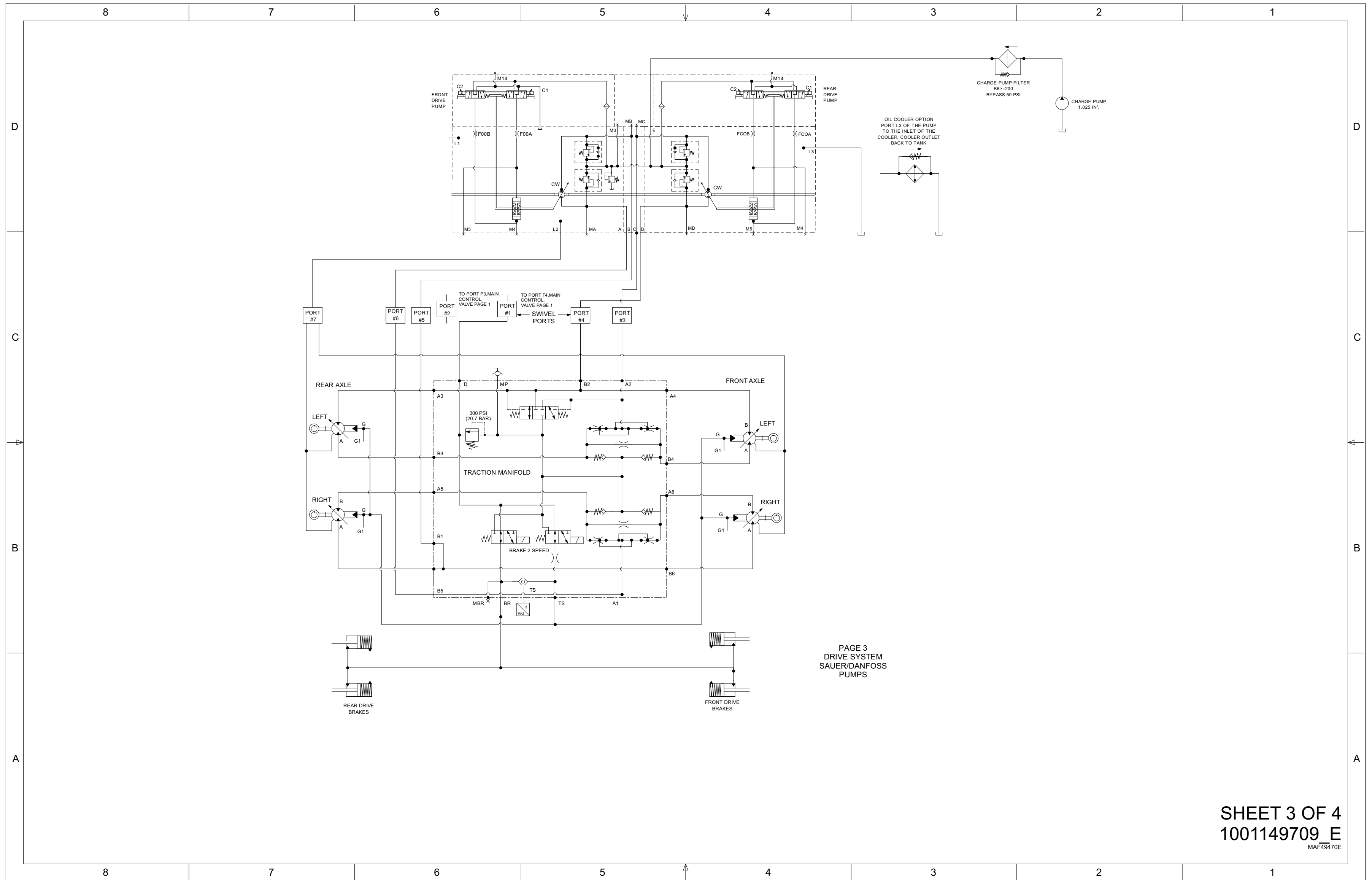
1.26 1850SJ

1.26.1 PVC 2001/PVC 2007



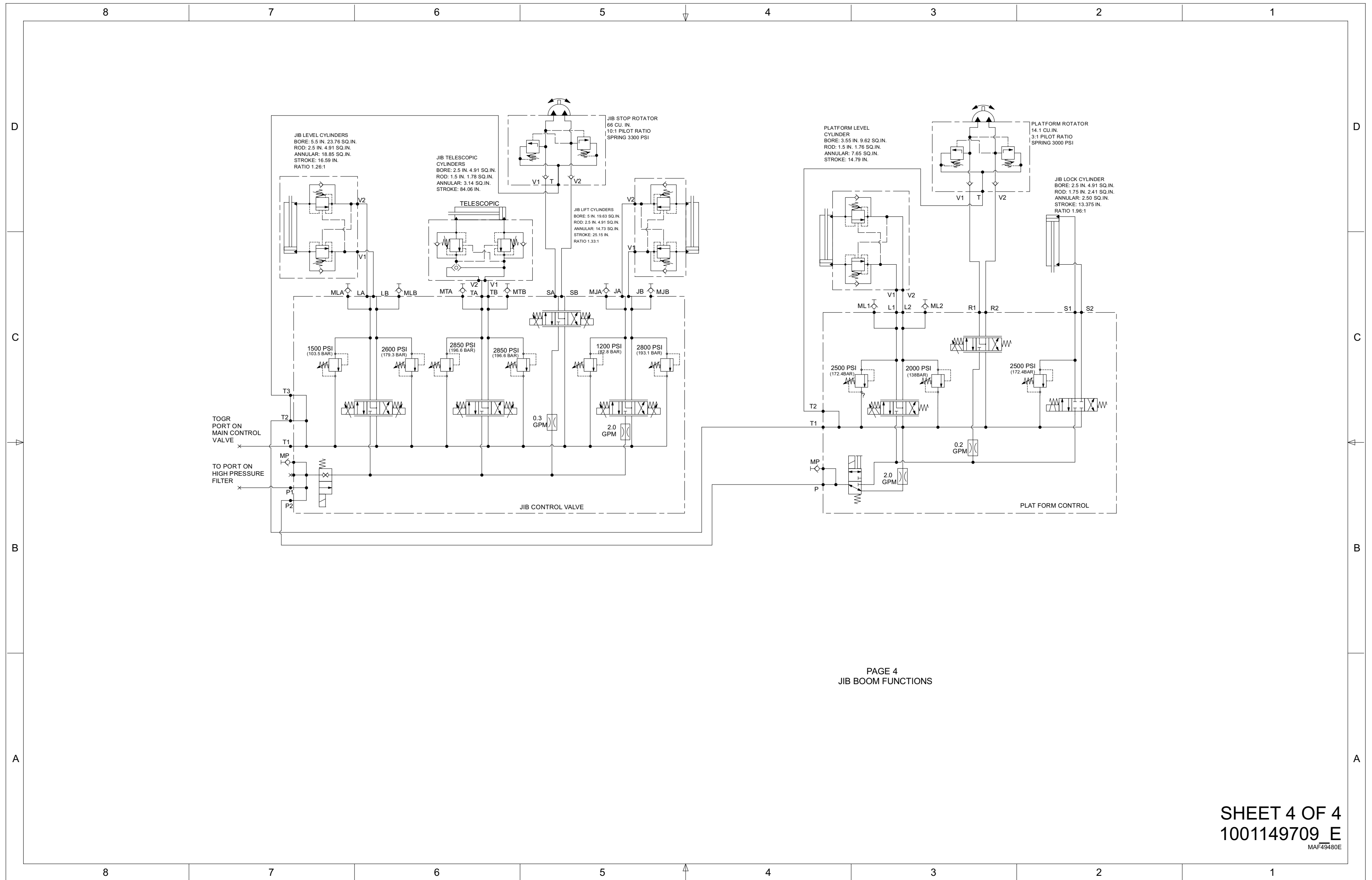
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DRIVE SYSTEM
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PUMPS

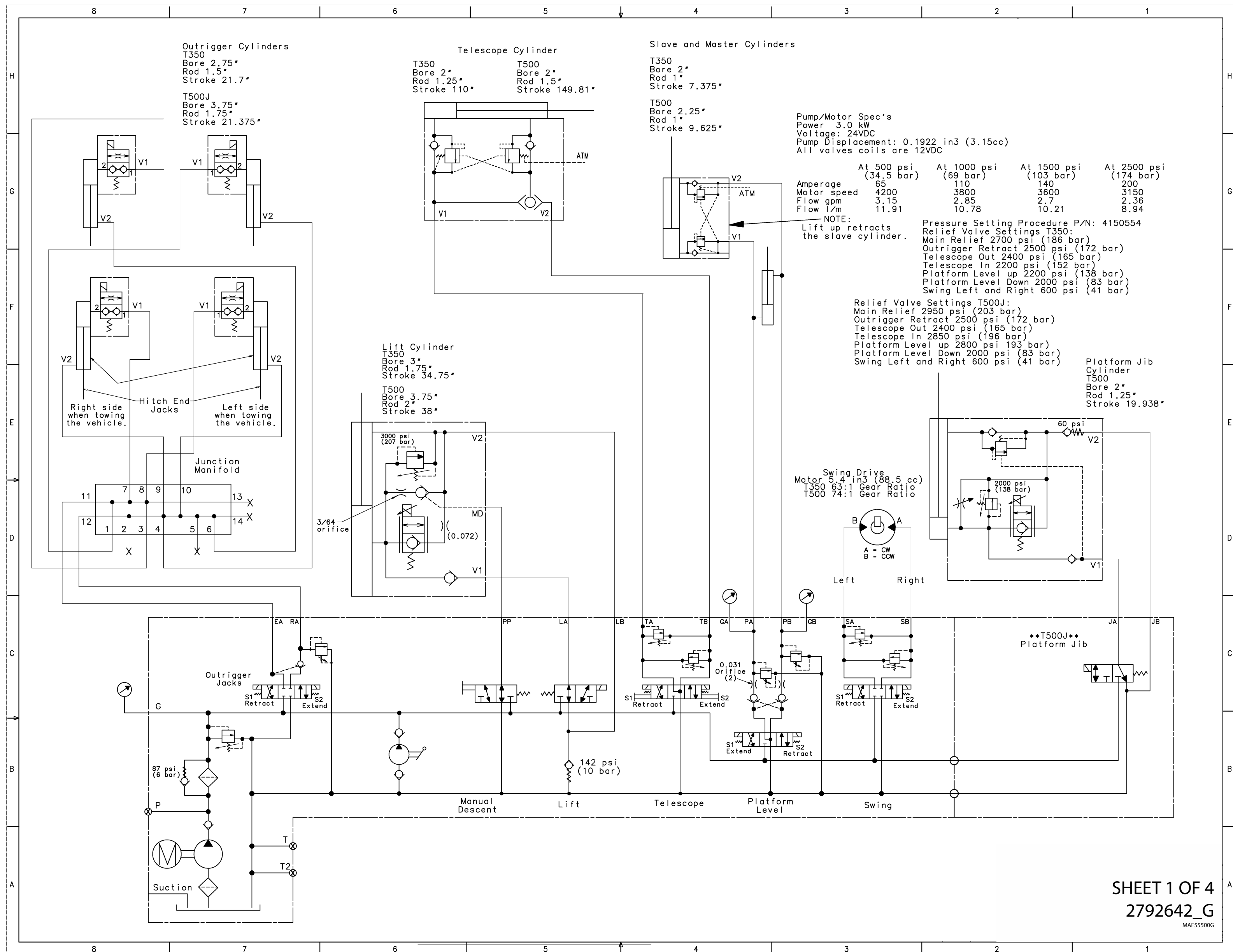
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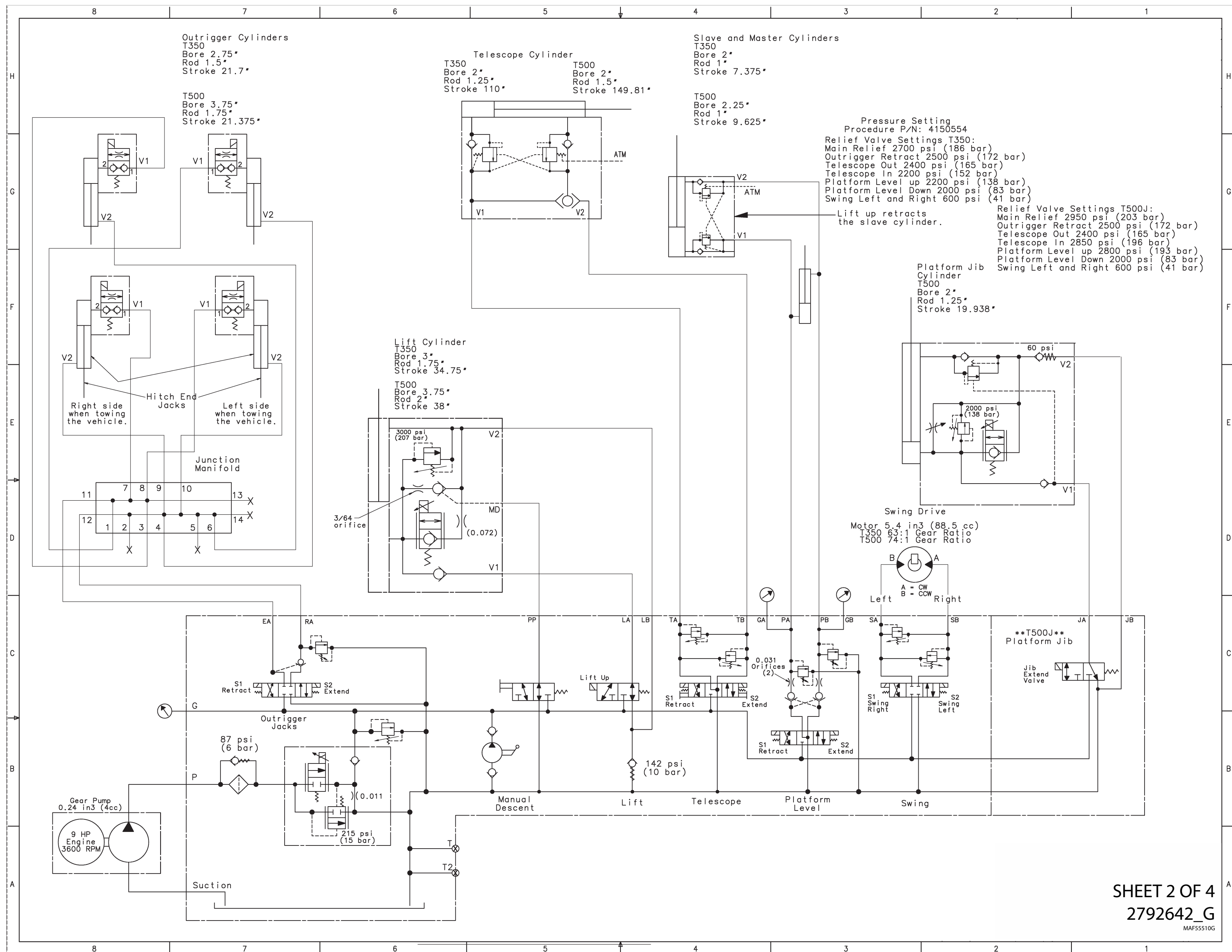
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1001149709 E
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1.27 T350, T500J

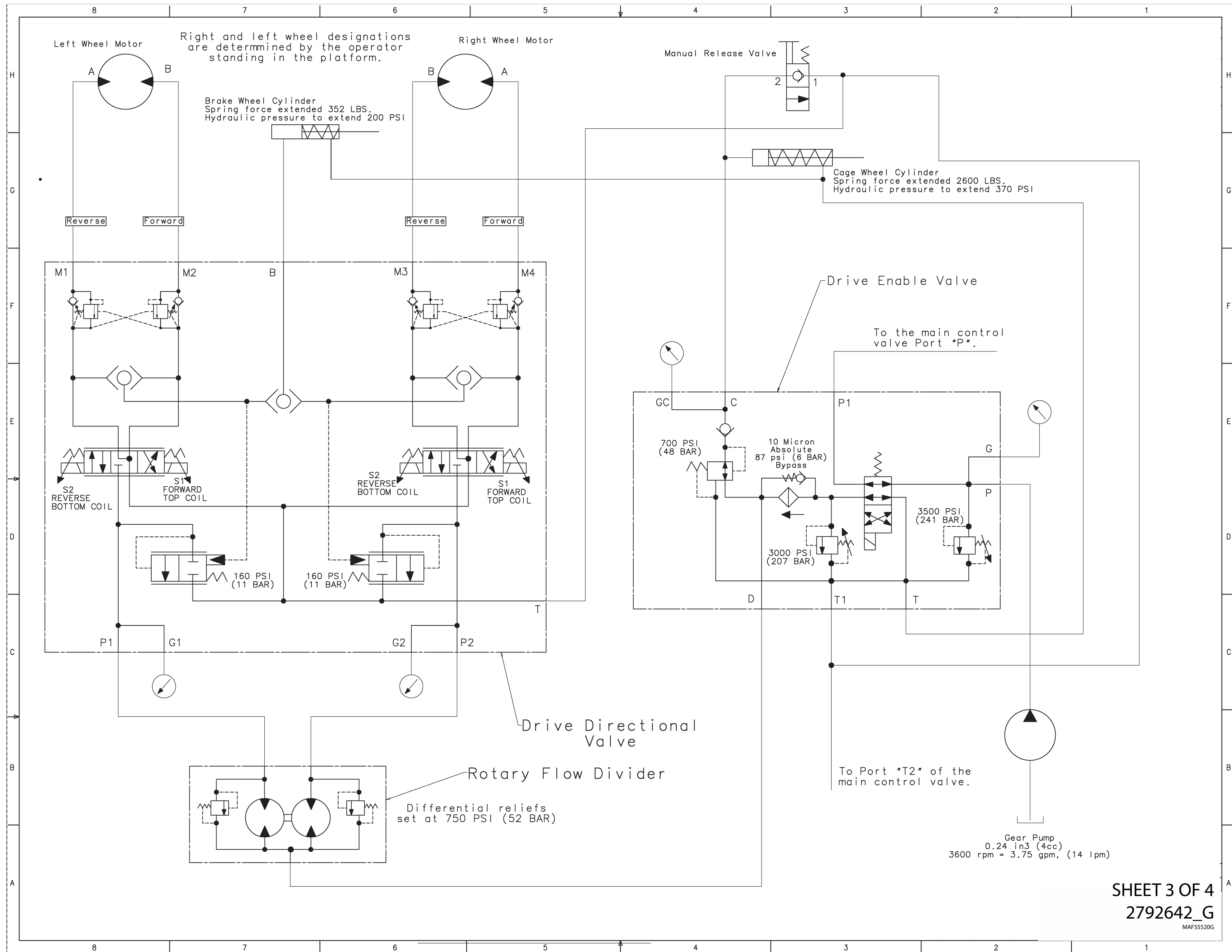
1.27.1 PVC 2001/PVC 2007



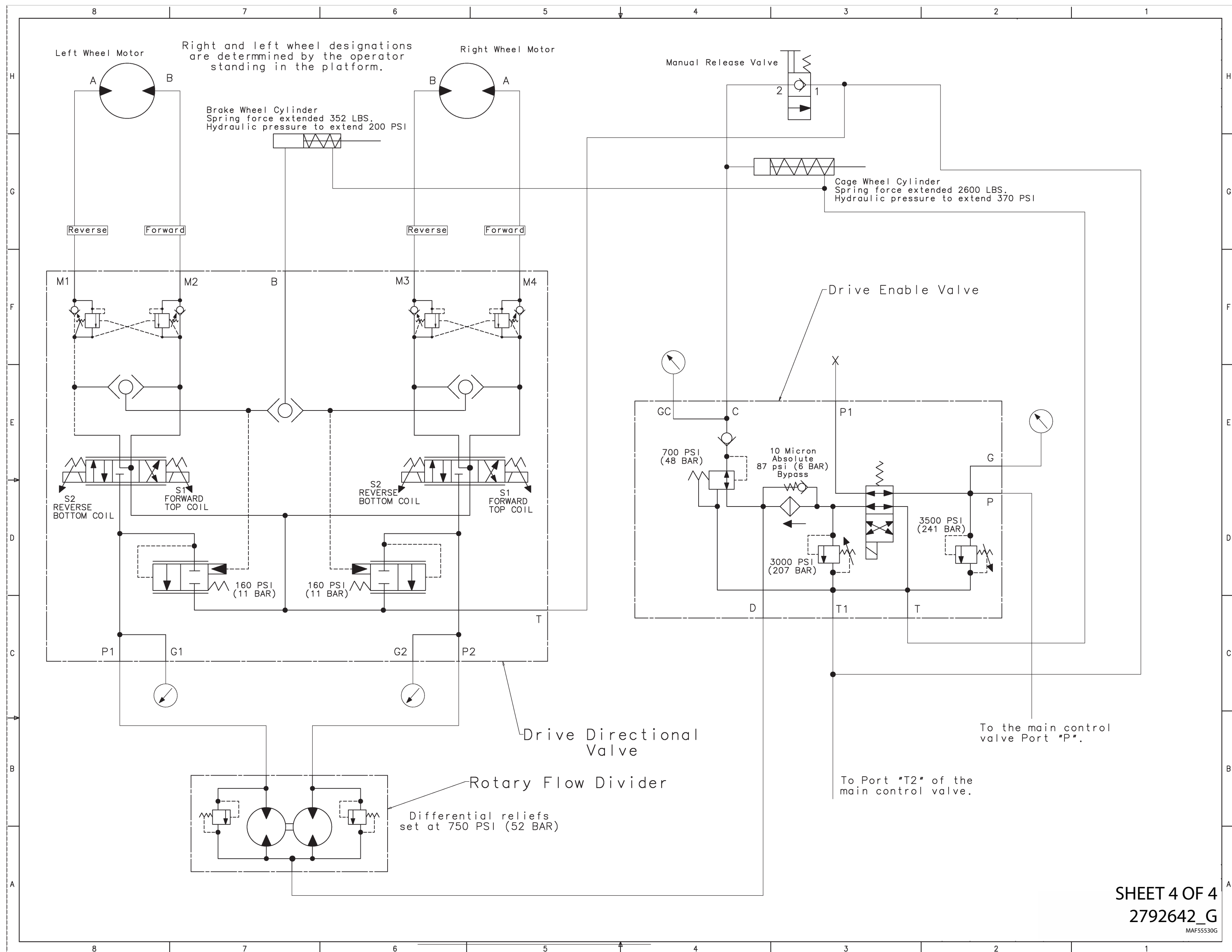
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