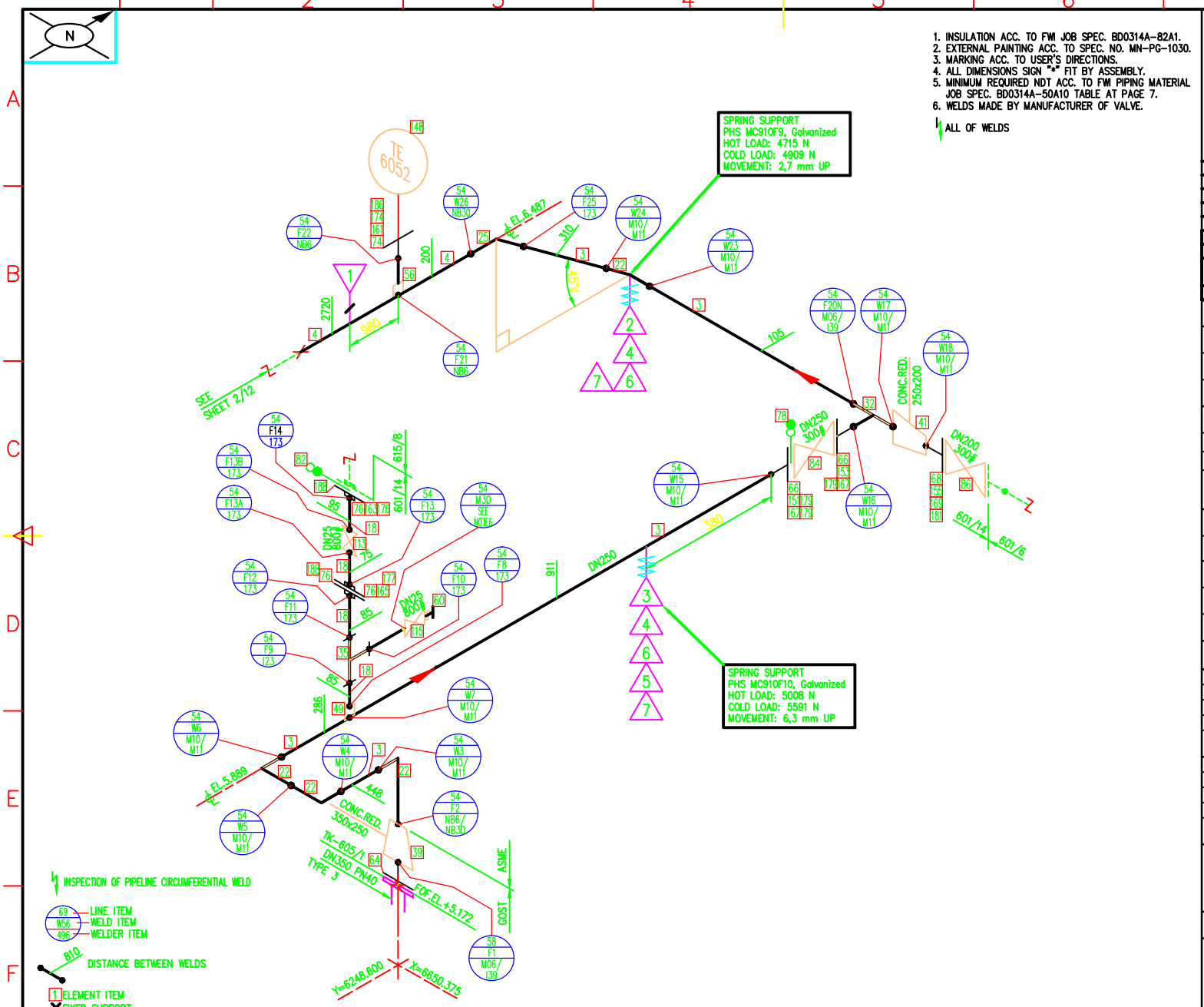


1. INSULATION ACC. TO FWI JOB SPEC. BD0314A-82A1.
2. EXTERNAL PAINTING ACC. TO SPEC. NO. MN-PG-1030.
3. MARKING ACC. TO USER'S DIRECTIONS.
4. ALL DIMENSIONS SIGN "*" FIT BY ASSEMBLY.
5. MINIMUM REQUIRED NDT ACC. TO FWI PIPING MATERIAL JOB SPEC. BD0314A-50A10 TABLE AT PAGE 7.
6. WELDS MADE BY MANUFACTURER OF VALVE.

ALL OF WELDS

No.	DN	O.D.	Part Description	TYPE	H	V	X	Y	Z	Q-ty pieces/assembly	Unit	Total Qty.
7	250	273	HS-034			13	480	480		2		
6	250	273	HS-002	C5	695					4		
5	250	273	PHS-033		135					1		
4	250	273	PHS-033		140		280			1		
3	250	273	MC910F10							1		
2	250	273	MC910F9							1		
1	250	273	PHS-035		695					1		

BILL OF SUPPORTS

OPER. MEDIUM	TOPPED CRUDE	TEST MEDIUM	WATER

PARAMETERS	OPER.	DESIGN	TEST	QUALITY LEVEL	VT	RT/UT %	MT/PT
PRES. barg	18	23	43	B	100	100	SEE NOTE 5
TEMP. °C	320	365	10÷40	PWHT			YES

–	–	–	–	–	–	DN	350	250	200	25
250	4.3	–	–	–	–	TYPE	HC	HC	HC	HC
DN	M.A.W.T.	DN	M.A.W.T.	DN	M.A.W.T.	THK.	150	100	100	70

MINIMUM ALLOWABLE WALL THK. | INSULATION

HEATING	ST	MATERIAL	P5	CLASS	H2A2
CODES	PED, ASME B31.3				
PIPING LAYOUT DWG. NO.	603-10-PJ-008				
P&I DIAGRAM NO.	GP2-S001/1-07				
BILL OF MATERIAL NO.	603-50J/54-PR-601/14				
INSPECTION BY	TPT	CLASS ACC.TO PED	I-II		

REV.	REVISION DESCRIPTION	DATE
0	AS BUILT. FOR PASSPORT DOC. ONLY	02.2008

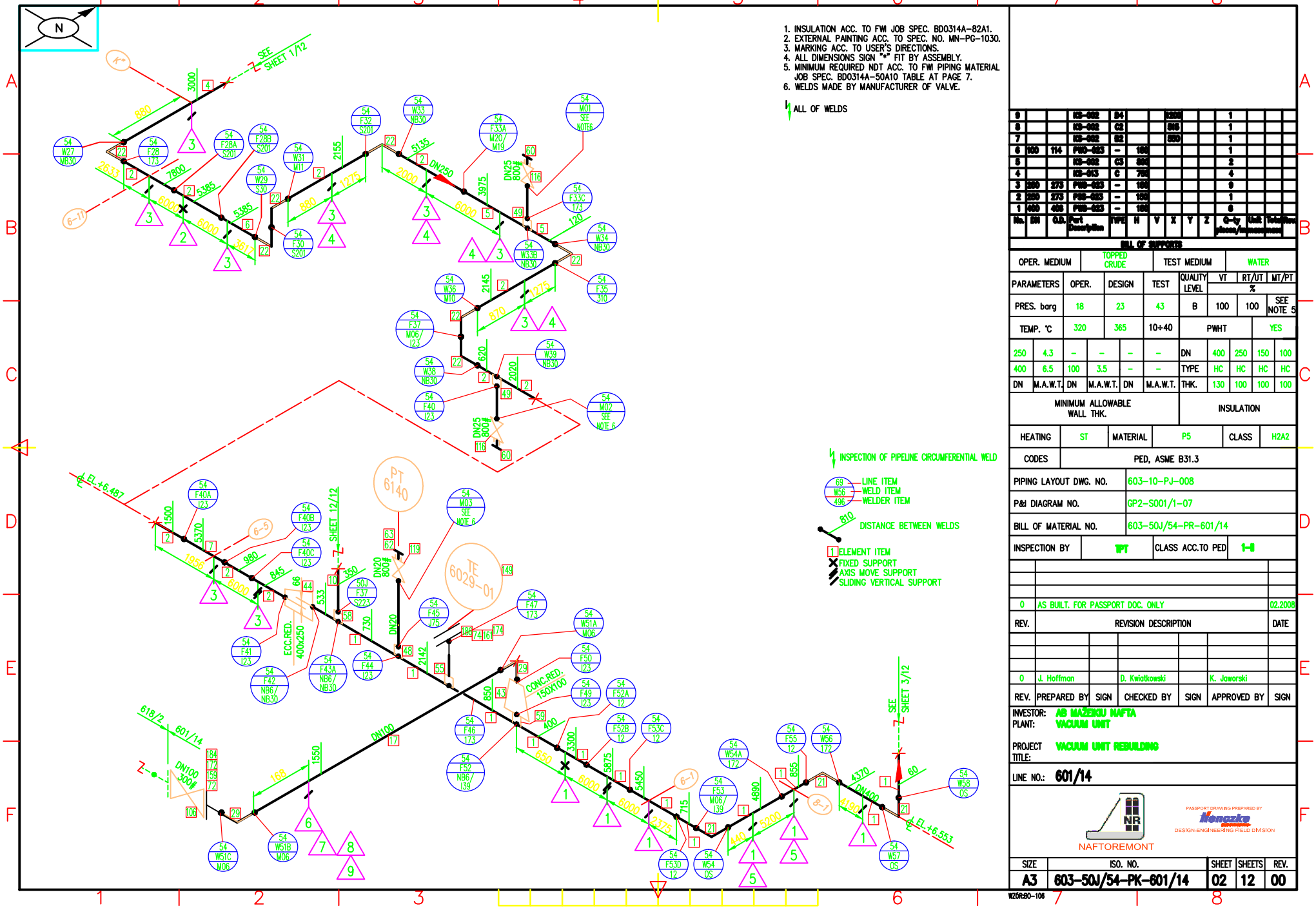
REV.	PREPARED BY	SIGN	CHECKED BY	SIGN	APPROVED BY	SIGN
0	J. Hoffman		D. Kwiatkowski		K. Jaworski	

INVESTOR: AB MAŽEIKIU NAFTA
PLANT: VACUUM UNIT
PROJECT TITLE: VACUUM UNIT REBUILDING
LINE NO.: 601/14

NAFTOREMONT
PASSPORT DRAWING PREPARED BY Wengzko DESIGN-ENGINEERING FIELD DIVISION

SIZE	ISO. NO.	SHEET	SHEETS	REV.
A3	603-50J/54-PK-601/14	01	12	00

WZÓR:BO-106



No.	DN	O.D.	Part Description	TYPE	H	V	X	Y	Z	Q-ty pieces/assembly	Unit Weight [kg]	Total Weight [kg]
9			KS-002	D4			2300			1		
8			KS-002	C2			595			1		
7			KS-002	B2			800			1		
6	100	114	PBS-003	-	150					1		
5			KS-002	C5	800					2		
4			KS-013	C	700					4		
3	250	273	PBS-003	-	150					8		
2	250	273	PBS-003	-	150					1		
1	400	406	PBS-003	-	150					6		

BILL OF SUPPORTS

OPER. MEDIUM	TOPPED CRUDE		TEST MEDIUM	WATER					
PARAMETERS	OPER.	DESIGN	TEST	QUALITY LEVEL	VT	RT/UT	MT/PT		
					%				
PRES. barg	18	23	43	B	100	100	SEE NOTE 5		
TEMP. °C	320	365	10÷40	PWHT	YES				

250	4.3	-	-	-	-	DN	400	250	150	100
400	6.5	100	3.5	-	-	TYPE	HC	HC	HC	HC
DN	M.A.W.T.	DN	M.A.W.T.	DN	M.A.W.T.	THK.	130	100	100	100

MINIMUM ALLOWABLE WALL THK.	INSULATION

HEATING	ST	MATERIAL	P5	CLASS	H2A2
CODES	PED, ASME B31.3				
PIPING LAYOUT DWG. NO.	603-10-PJ-008				
P&I DIAGRAM NO.	GP2-S001/1-07				
BILL OF MATERIAL NO.	603-50J/54-PR-601/14				
INSPECTION BY	TPT	CLASS ACC.TO PED	1-H		

REV.	REVISION DESCRIPTION	DATE
0	AS BUILT. FOR PASSPORT DOC. ONLY	02.2008

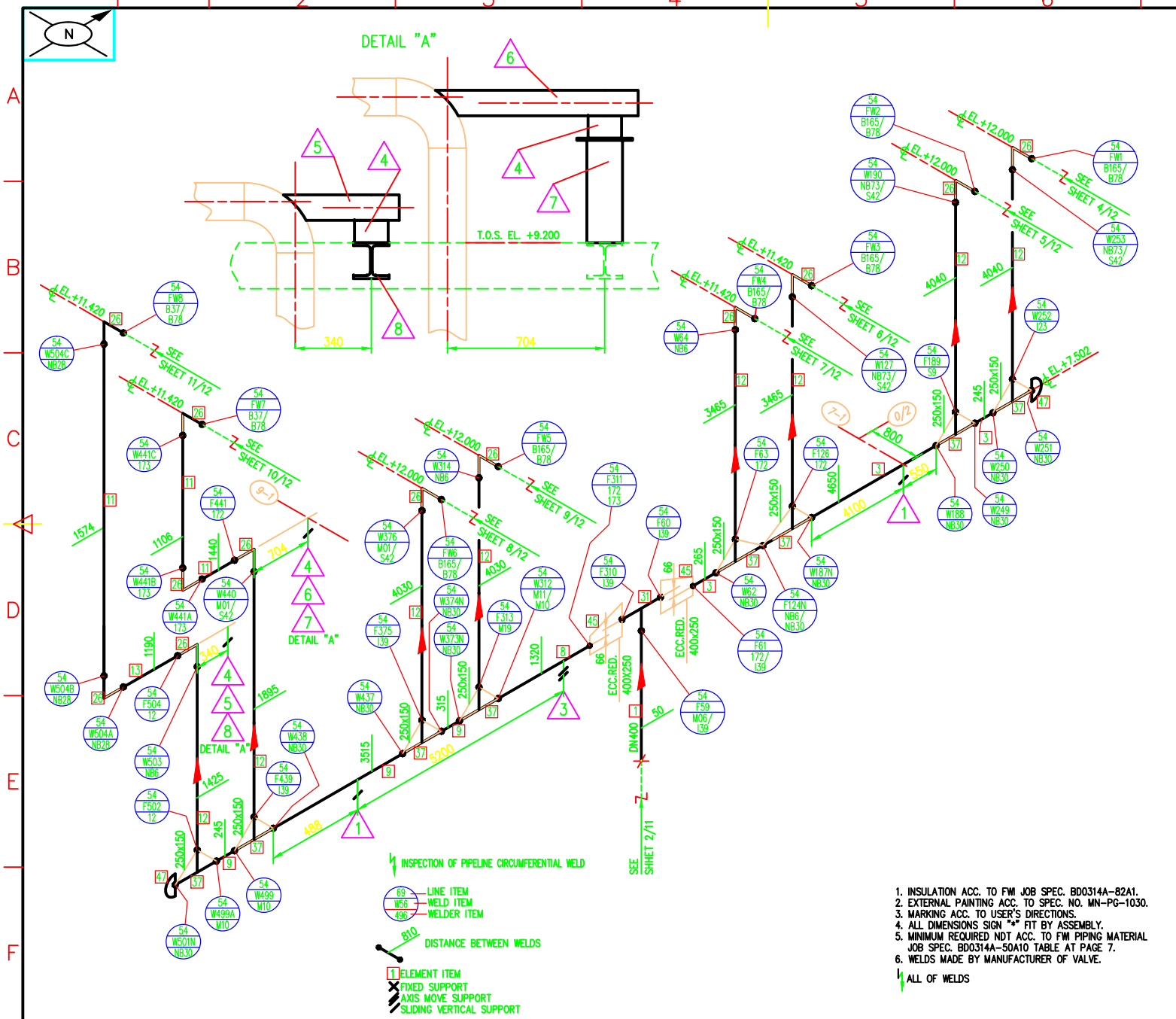
REV.	PREPARED BY	SIGN	CHECKED BY	SIGN	APPROVED BY	SIGN
0	J. Hoffman		D. Kwiatkowski		K. Jaworski	

INVESTOR: AB MAŽEIKIU NAFTA
PLANT: VACUUM UNIT
PROJECT TITLE: VACUUM UNIT REBUILDING
LINE NO.: 601/14

NAFTOREMONT
PASSPORT DRAWING PREPARED BY Honeywell
DESIGN-ENGINEERING FIELD DIVISION

SIZE	ISO. NO.	SHEET	SHEETS	REV.
A3	603-50J/54-PK-601/14	02	12	00

WZÓR:80-106



1. INSULATION ACC. TO FWI JOB SPEC. BD0314A-82A1.
2. EXTERNAL PAINTING ACC. TO SPEC. NO. MN-PG-1030.
3. MARKING ACC. TO USER'S DIRECTIONS.
4. ALL DIMENSIONS SIGN "*" FIT BY ASSEMBLY.
5. MINIMUM REQUIRED NDT ACC. TO FWI PIPING MATERIAL JOB SPEC. BD0314A-50A10 TABLE AT PAGE 7.
6. WELDS MADE BY MANUFACTURER OF VALVE.

No.	DN	O.D.	Part Description	TYPE	H	V	X	Y	Z	Q-ty pieces/assemblies	Unit	Total/Row
8			KS-002	C4			600			1		
7			KS-013	B	468					1		
6			KS-010		704	180				1		
5			KS-010		340	125				1		
4	100	114,3	PSB-022a		100					2		
3	250	273	PPB-023	–	165					1		
2			REMOVED									
1	250	273	PSB-023	–	165					2		

BILL OF SUPPORTS

OPER. MEDIUM	TOPPED CRUDE			TEST MEDIUM	WATER				
PARAMETERS	OPER.	DESIGN	TEST	QUALITY LEVEL	VT	RT/UT %		MT/PT	
PRES. barg	18	23	43	B	100	100		SEE NOTE 5	
TEMP. °C	320	365	10÷40	PWHT				YES	

250	4.3	–	–	–	–	DN	400	250	150	–
400	6.5	150	3.8	–	–	TYPE	HC	HC	HC	–
DN	M.A.W.T.	DN	M.A.W.T.	DN	M.A.W.T.	THK.	130	100	100	–

MINIMUM ALLOWABLE WALL THK.	INSULATION

HEATING	ST	MATERIAL	P5	CLASS	H2A2
CODES	PED, ASME B31.3				
PIPING LAYOUT DWG. NO.	603-10-PJ-015				
P&I DIAGRAM NO.	GP2-S001/1-10A				
BILL OF MATERIAL NO.	603-50J/54-PR-601/14				
INSPECTION BY	TPT	CLASS ACC.TO PED	I-II		

REV.	REVISION DESCRIPTION	DATE
0	AS BUILT. FOR PASSPORT DOC. ONLY	02.2008

REV.	PREPARED BY	SIGN	CHECKED BY	SIGN	APPROVED BY	SIGN
0	J. Hoffman		D. Kwiatkowski		K. Jaworski	

INVESTOR: AB MAZEIKIU NAFTA
PLANT: VACUUM UNIT

PROJECT TITLE: VACUUM UNIT REBUILDING

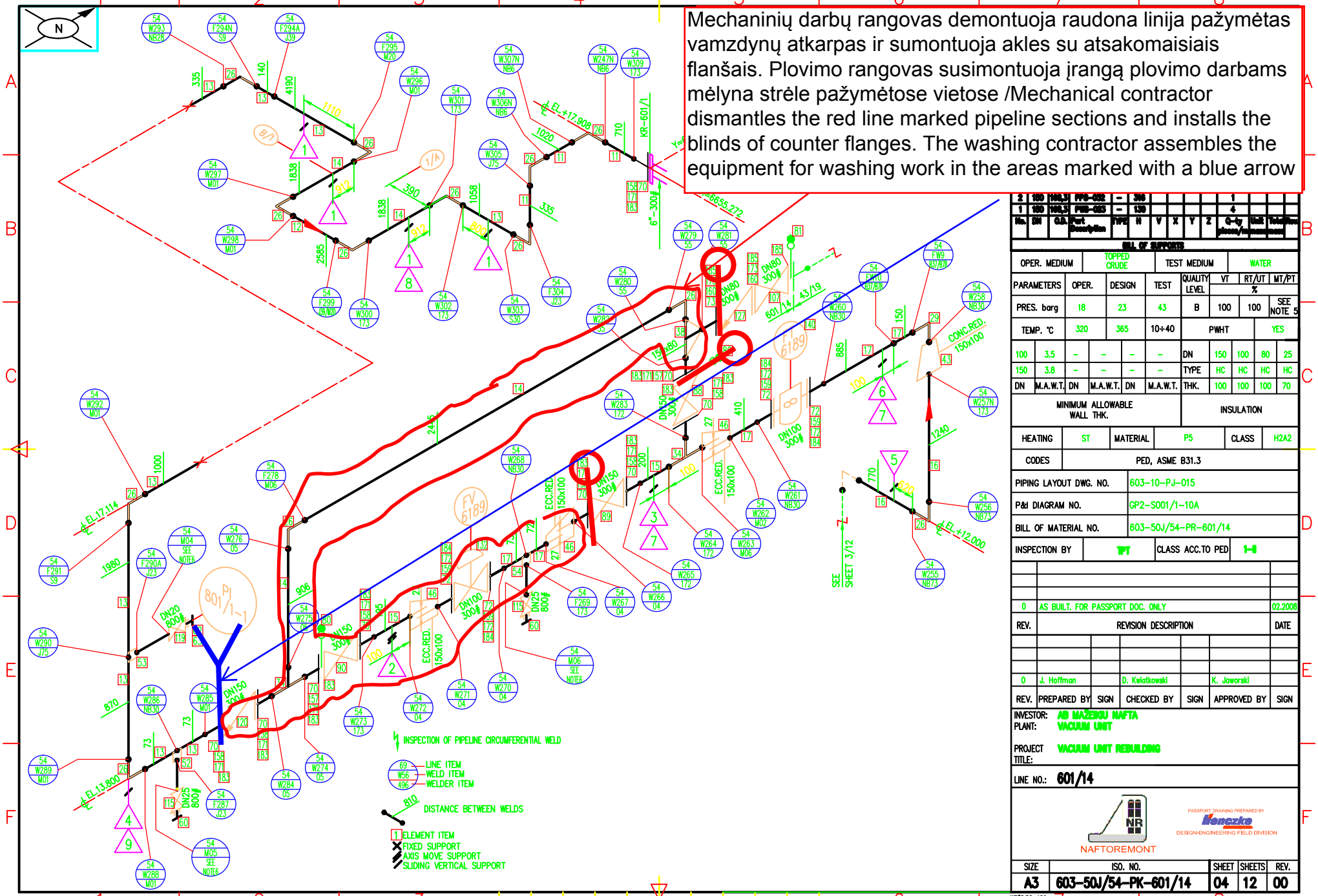
LINE NO.: 601/14

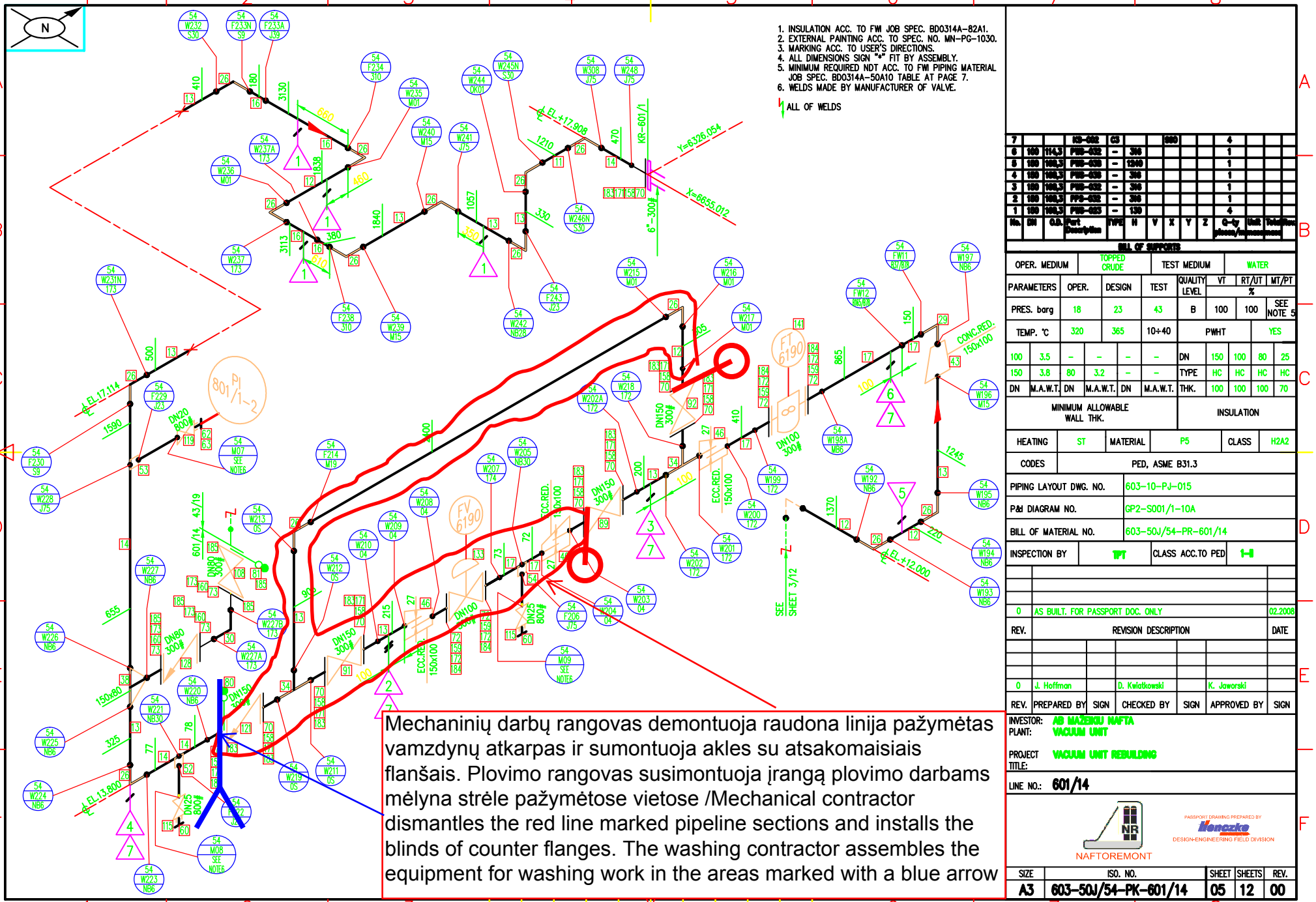
NAFTOREMONT

PASSPORT DRAWING PREPARED BY Konoza DESIGN-ENGINEERING FIELD DIVISION

SIZE	ISO. NO.	SHEET	SHEETS	REV.
A3	603-50J/54-PK-601/14	03	12	00

WZÓR:BO-106


Mechaninių darbų rangovas demontuoja raudona linija pažymėtas vamzdynų atkarpas ir sumontuoja akles su atsakomaisiais flanšais. Plovimo rangovas susimontuoja įrangą plovimo darbams mėlyna strėle pažymėtose vietose /Mechanical contractor dismantles the red line marked pipeline sections and installs the blinds of counter flanges. The washing contractor assembles the equipment for washing work in the areas marked with a blue arrow
INSPECTION OF PIPELINE CIRCUMFERENTIAL WELD
LINE ITEM
WELD ITEM
WELDER ITEM
DISTANCE BETWEEN WELDS
ELEMENT ITEM
FIXED SUPPORT
AXIS MOVE SUPPORT
SLIDING VERTICAL SUPPORT
BILL OF SUPPORTS
OPER. MEDIUM
TOPPED CRUDE
TEST MEDIUM
WATER
PARAMETERS
OPER.
DESIGN
TEST
PRES. barg
TEMP. °C
MINIMUM ALLOWABLE WALL THK.
INSULATION
HEATING
ST
MATERIAL
P5
CLASS
H2A2
CODES
PED, ASME B31.3
PIPING LAYOUT DWG. NO.
603-10-PJ-015
P&I DIAGRAM NO.
GP2-S001/1-10A
BILL OF MATERIAL NO.
603-50J/54-PR-601/14
INSPECTION BY
TPT
CLASS ACC.TO PED
I-II
0
AS BUILT. FOR PASSPORT DOC. ONLY
02.2008
REV.
REVISION DESCRIPTION
DATE
J. Hoffman
D. Kwiatkowski
K. Jaworski
PREPARED BY
CHECKED BY
APPROVED BY
SIGN
INVESTOR:
AB MAŽEIKIU NAFTA
PLANT:
VACUUM UNIT
PROJECT TITLE:
VACUUM UNIT REBUILDING
LINE NO.:
601/14
NAFTOREMONT
DESIGN-ENGINEERING FIELD DIVISION
SIZE
ISO. NO.
SHEET
SHEETS
REV.
A3
603-50J/54-PK-601/14
04
12
00



Mechaninių darbų rangovas demontuoja raudona linija pažymėtas vamzdynų atkarpas ir sumontuoja akles su atsakomaisiais flanšais. Plovimo rangovas susimontuoja įrangą plovimo darbams mėlyna strėle pažymėtose vietose /Mechanical contractor dismantles the red line marked pipeline sections and installs the blinds of counter flanges. The washing contractor assembles the equipment for washing work in the areas marked with a blue arrow

No.	DN	O.D.	Part Description	TYPE	H	V	X	Y	Z	Q-ty pieces/assembly	Unit	Total Mass
7			FB-002	C5			660			4		
6	100	114,3	PBS-002	-	310					1		
5	100	108,3	PBS-030	-	1240					1		
4	100	108,3	PBS-030	-	310					1		
3	100	108,3	PBS-002	-	310					1		
2	100	108,3	PPS-002	-	310					1		
1	100	108,3	PBS-005	-	130					4		

BILL OF SUPPORTS

OPER. MEDIUM	TOPPED CRUDE			TEST MEDIUM	WATER							
PARAMETERS	OPER.	DESIGN	TEST	QUALITY LEVEL	VT	RT/UT %		MT/PT				
PRES. barg	18	23	43	B	100	100	SEE NOTE 5					
TEMP. °C	320	365	10÷40	PWHT		YES						
100	3.5	-	-	-	-	DN	150	100	80	25		
150	3.8	80	3.2	-	-	TYPE	HC	HC	HC	HC		
DN	M.A.W.T.	DN	M.A.W.T.	DN	M.A.W.T.	THK.	100	100	100	70		
MINIMUM ALLOWABLE WALL THK.				INSULATION								
HEATING	ST	MATERIAL	P5	CLASS	H2A2							
CODES	PED, ASME B31.3											
PIPING LAYOUT DWG. NO.	603-10-PJ-015											
P&I DIAGRAM NO.	GP2-S001/1-10A											
BILL OF MATERIAL NO.	603-50J/54-PR-601/14											
INSPECTION BY	TPT	CLASS ACC.TO PED	1-H									

REV.	REVISION DESCRIPTION	DATE
0	AS BUILT. FOR PASSPORT DOC. ONLY	02.2008

REV.	PREPARED BY	SIGN	CHECKED BY	SIGN	APPROVED BY	SIGN
0	J. Hoffman		D. Kwiatkowski		K. Jaworski	

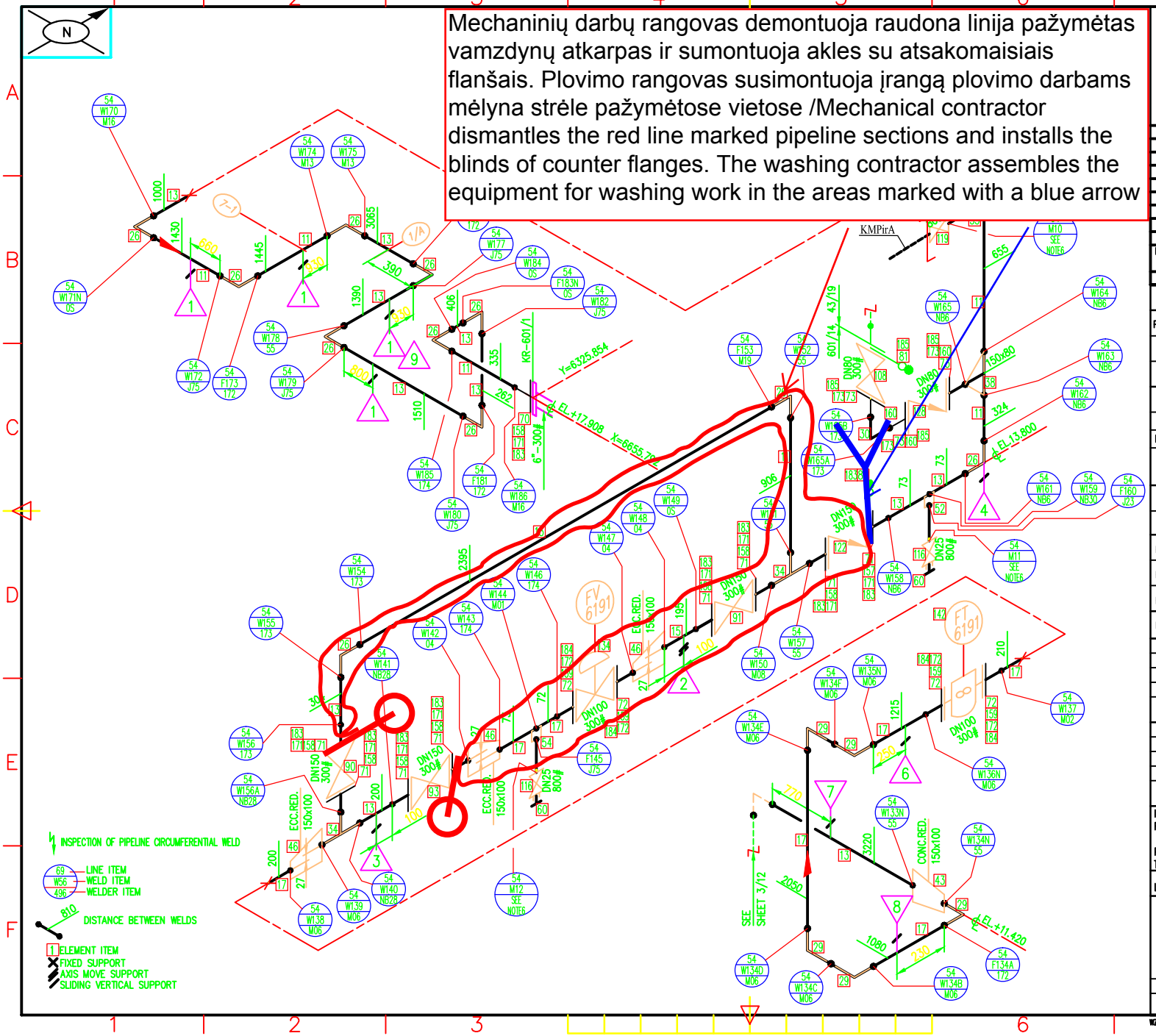
INVESTOR: AB MAŽEIKIU NAFTA
PLANT: VACUUM UNIT
PROJECT TITLE: VACUUM UNIT REBUILDING
LINE NO.: 601/14

NAFTOREMONT
PASSPORT DRAWING PREPARED BY Honeywell DESIGN-ENGINEERING FIELD DIVISION

SIZE	ISO. NO.	SHEET	SHEETS	REV.
A3	603-50J/54-PK-601/14	05	12	00

WZÓR:80-106

Mechaninių darbų rangovas demontuoja raudona linija pažymėtas vamzdynų atkarpas ir sumontuoja akles su atsakomaisiais flanšais. Plovimo rangovas susimontuoja įrangą plovimo darbams mėlyna strėle pažymėtose vietose /Mechanical contractor dismantles the red line marked pipeline sections and installs the blinds of counter flanges. The washing contractor assembles the equipment for washing work in the areas marked with a blue arrow



9			KS-002	C4		1240			1			
8	100	114,3	PBD-005	-	350				1			
7	150	168,3	PBD-005	-	350				1			
6	100	114,3	PBD-002	-	310				1			
5	150	168,3	PBD-005	-	1240				1			
4	150	168,3	PBD-003	-	310				1			
3	150	168,3	PBD-002	-	310				1			
2	150	168,3	PBD-002	-	310				1			
1	100	168,3	PBD-003	-	130				4			
No.	DN	O.D.	Part Description	TYPE	H	V	X	Y	Z	Q-ty pieces/assembly	Unit Total/Item weight	

BILL OF SUPPORTS

OPER. MEDIUM	TOPPED CRUDE		TEST MEDIUM	WATER						
PARAMETERS	OPER.	DESIGN	TEST	QUALITY LEVEL	VT	RT/UT %	MT/PT			
PRES. barg	18	23	43	B	100	100	SEE NOTE 5			
TEMP. °C	320	365	10÷40	PWHT			YES			
100	3.5	–	–	–	–	DN	150	100	80	25
150	3.8	80	3.2	–	–	TYPE	HC	HC	HC	HC
DN	M.A.W.T.	DN	M.A.W.T.	DN	M.A.W.T.	THK.	100	100	100	70
MINIMUM ALLOWABLE WALL THK.				INSULATION						
HEATING	ST	MATERIAL	P5	CLASS	H2A2					
CODES	PED, ASME B31.3									
PIPING LAYOUT DWG. NO.	603-10-PJ-015									
P&I DIAGRAM NO.	GP2-S001/1-10A									
BILL OF MATERIAL NO.	603-50J/54-PR-601/14									
INSPECTION BY	TPT	CLASS ACC.TO PED	1-4							

REV.	REVISION DESCRIPTION	DATE
0	AS BUILT. FOR PASSPORT DOC. ONLY	02.2008

REV.	PREPARED BY	SIGN	CHECKED BY	SIGN	APPROVED BY	SIGN
0	J. Hoffman		D. Kwiatkowski		K. Jaworski	

INVESTOR: AB MAŽEIKIU NAFTA
PLANT: VACUUM UNIT
PROJECT TITLE: VACUUM UNIT REBUILDING
LINE NO.: 601/14

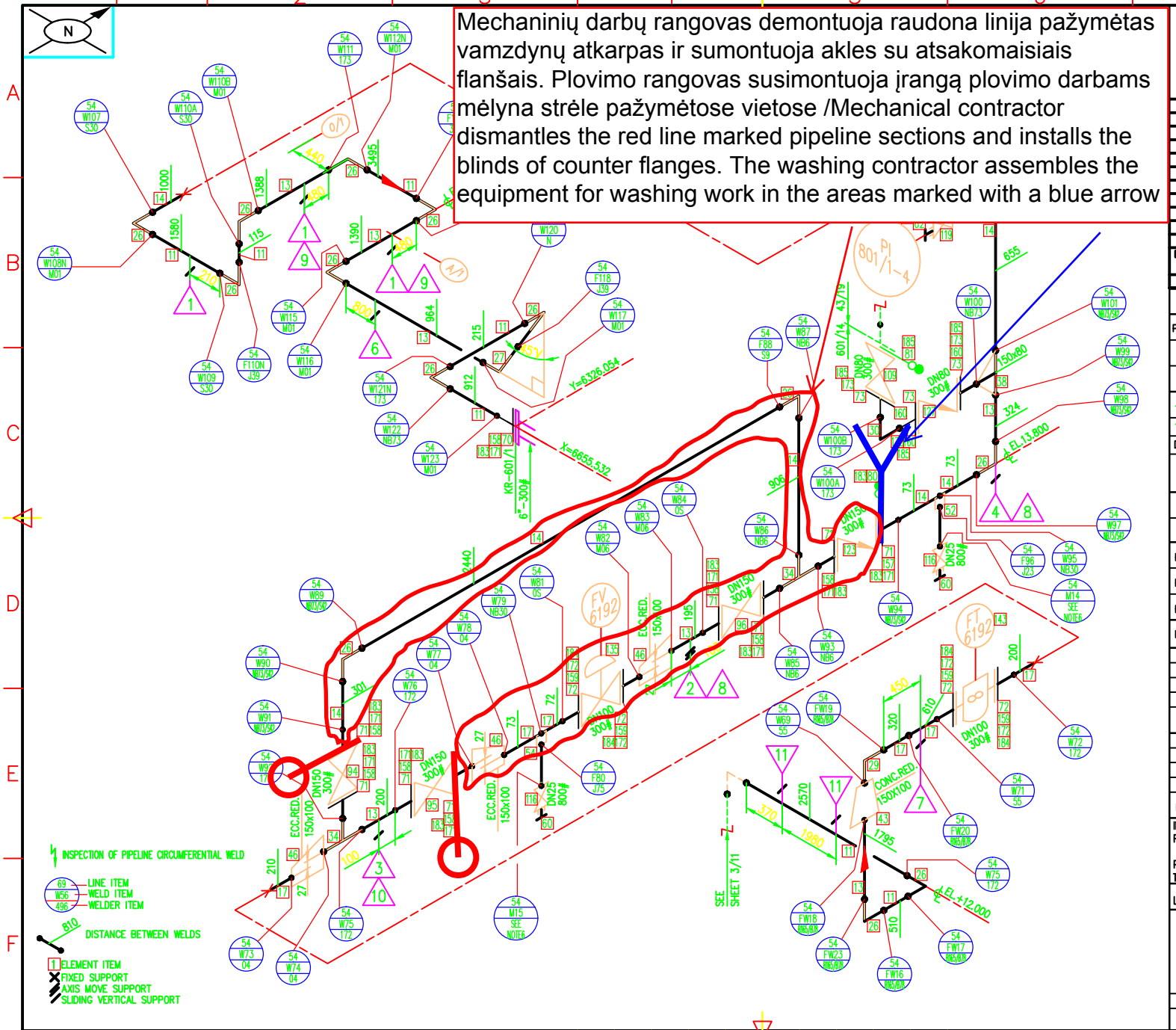
NAFTOREMONT

PASSPORT DRAWING PREPARED BY Konczko DESIGN-ENGINEERING FIELD DIVISION

SIZE	ISO. NO.	SHEET	SHEETS	REV.
A3	603-50J/54-PK-601/14	06	12	00

WZÓR:SO-106

Mechaninių darbų rangovas demontuoja raudona linija pažymėtas vamzdynų atkarpas ir sumontuoja akles su atsakomaisiais flanšais. Plovimo rangovas susimontuoja įrangą plovimo darbams mėlyna strėle pažymėtose vietose /Mechanical contractor dismantles the red line marked pipeline sections and installs the blinds of counter flanges. The washing contractor assembles the equipment for washing work in the areas marked with a blue arrow



No.	DN	O.D.	Part Description	TYPE	H	V	X	Y	Z	Q-ty pieces/assembly	Unit Total/assembly
11	100	168,3	PSD-039	-	380					2	
10			KS-002	B1		1040				1	
9			KS-002	C1		480				2	
8			KS-002	C4		1040				2	
7	100	114,3	PSD-032	-	310					1	
6	100	168,3	PSD-032	-	695					3	
5											
4	100	168,3	PSD-039	-	310					1	
3	100	168,3	PSD-032	-	310					1	
2	100	168,3	PSD-032	-	310					1	
1	100	168,3	PSD-033	-	130					1	

BILL OF SUPPORTS

OPER. MEDIUM			TOPPED CRUDE			TEST MEDIUM			WATER		
PARAMETERS		OPER.		DESIGN		TEST	QUALITY LEVEL	VT	RT/UT %		MT/PT
PRES. barg		18		23		43	B	100	100		SEE NOTE 5
TEMP. °C		320		365		10÷40	PWHT			YES	
100	3.5	-	-	-	-		DN	150	100	80	25
150	3.8	-	-	-	-		TYPE	HC	HC	HC	HC
DN	M.A.W.T.	DN	M.A.W.T.	DN	M.A.W.T.		THK.	100	100	100	70
MINIMUM ALLOWABLE WALL THK.							INSULATION				

HEATING	ST	MATERIAL	P5	CLASS	H2A2
CODES	PED, ASME B31.3				
PIPING LAYOUT DWG. NO.	603-10-PJ-015				
P&I DIAGRAM NO.	GP2-S001/1-10A				
BILL OF MATERIAL NO.	603-50J/54-PR-601/14				
INSPECTION BY	TPT	CLASS ACC.TO PED	1-I		

REV.	REVISION DESCRIPTION	DATE
0	AS BUILT. FOR PASSPORT DOC. ONLY	02.2008

REV.	PREPARED BY	SIGN	CHECKED BY	SIGN	APPROVED BY	SIGN
0	J. Hoffman		D. Kwiatkowski		K. Jaworski	

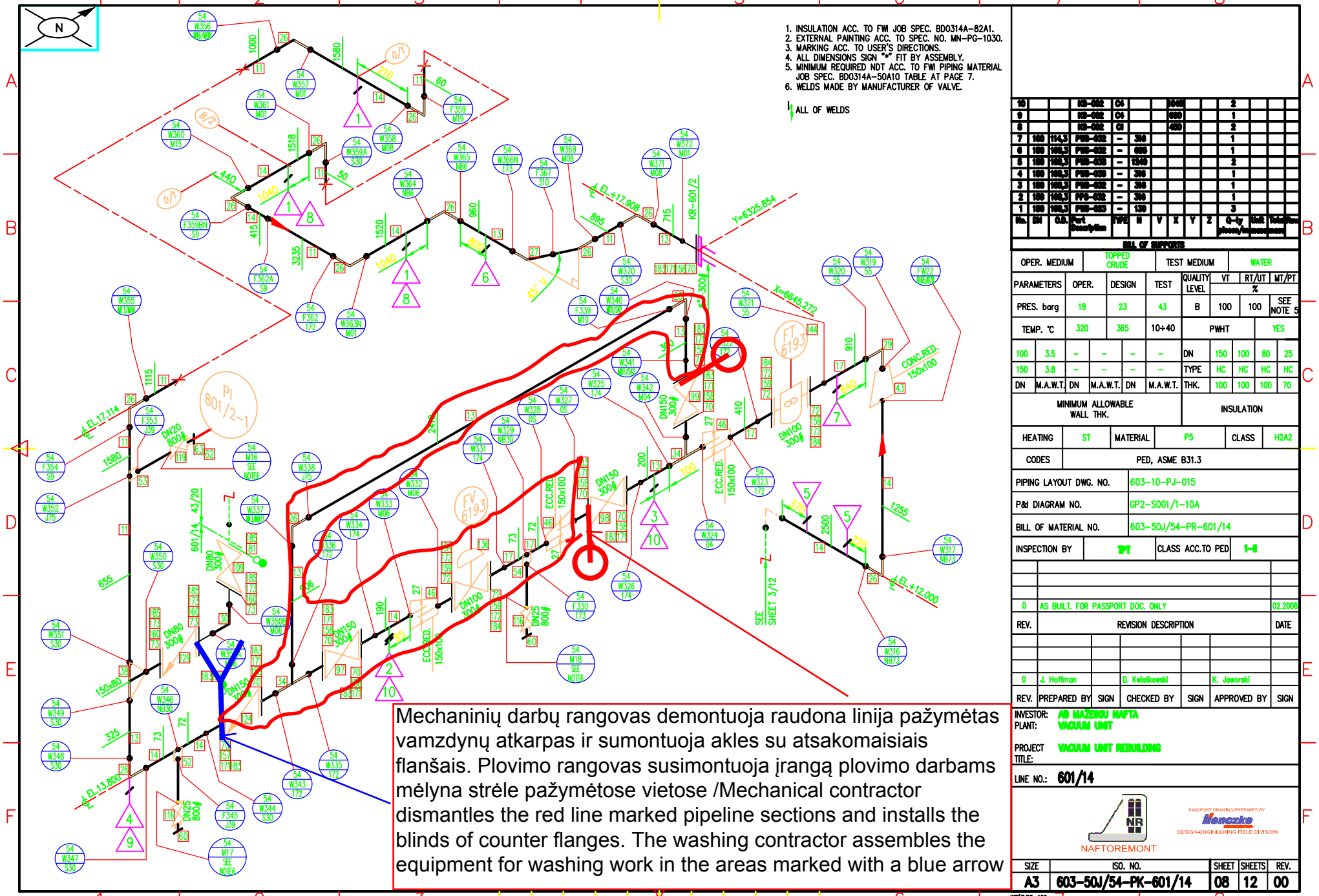
INVESTOR: AB MAŽEIKIŲ NAFTA
PLANT: VACUUM UNIT
PROJECT TITLE: VACUUM UNIT REBUILDING
LINE NO.: 601/14

NAFTOREMONT

PASSPORT DRAWING PREPARED BY Konczke DESIGN-ENGINEERING FIELD DIVISION

SIZE	ISO. NO.	SHEET	SHEETS	REV.
A3	603-50J/54-PK-601/14	07	12	00

WZÓR:80-106



Mechaninių darbų rangovas demontuoja raudona linija pažymėtas vamzdynų atkarpas ir sumontuoja akles su atsakomaisiais flanšais. Plovimo rangovas susimontuoja įrangą plovimo darbams mėlyna strėle pažymėtose vietose /Mechanical contractor dismantles the red line marked pipeline sections and installs the blinds of counter flanges. The washing contractor assembles the equipment for washing work in the areas marked with a blue arrow

10			ISO-002	C4		1040			2		
9			ISO-002	C4		680			1		
8			ISO-002	C4		450			2		
7	100	114,3	PIPE-002	-	300				1		
6	100	168,3	PIPE-002	-	685				1		
5	100	168,3	PIPE-003	-	1240				2		
4	100	168,3	PIPE-003	-	300				1		
3	100	168,3	PIPE-002	-	300				1		
2	100	168,3	PIPE-002	-	300				1		
1	100	168,3	PIPE-003	-	130				3		
No.	DN	O.D.	Part Description	TYPE	H	V	X	Y	Z	Q-ty pieces/assembly	Unit Total/Pos assembly

BILL OF SUPPORTS

OPER. MEDIUM	TOPPED CRUDE			TEST MEDIUM	WATER					
PARAMETERS	OPER.	DESIGN	TEST	QUALITY LEVEL	VT	RT/UT %		MT/PT		
PRES. barg	18	23	43	B	100	100	SEE NOTE 5			
TEMP. °C	320	365	10÷40	PWHT			YES			
100	3.5	–	–	–	–	DN	150	100	80	25
150	3.8	–	–	–	–	TYPE	HC	HC	HC	HC
DN	M.A.W.T.	DN	M.A.W.T.	DN	M.A.W.T.	THK.	100	100	100	70
MINIMUM ALLOWABLE WALL THK.				INSULATION						
HEATING	ST	MATERIAL	P5	CLASS	H2A2					
CODES	PED, ASME B31.3									
PIPING LAYOUT DWG. NO.	603-10-PJ-015									
P&I DIAGRAM NO.	GP2-S001/1-10A									
BILL OF MATERIAL NO.	603-50J/54-PR-601/14									
INSPECTION BY	TPT	CLASS ACC.TO PED	1-H							

REV.	REVISION DESCRIPTION	DATE
0	AS BUILT. FOR PASSPORT DOC. ONLY	02.2008

REV.	PREPARED BY	SIGN	CHECKED BY	SIGN	APPROVED BY	SIGN
0	J. Hoffman		D. Kwiatkowski		K. Jaworski	

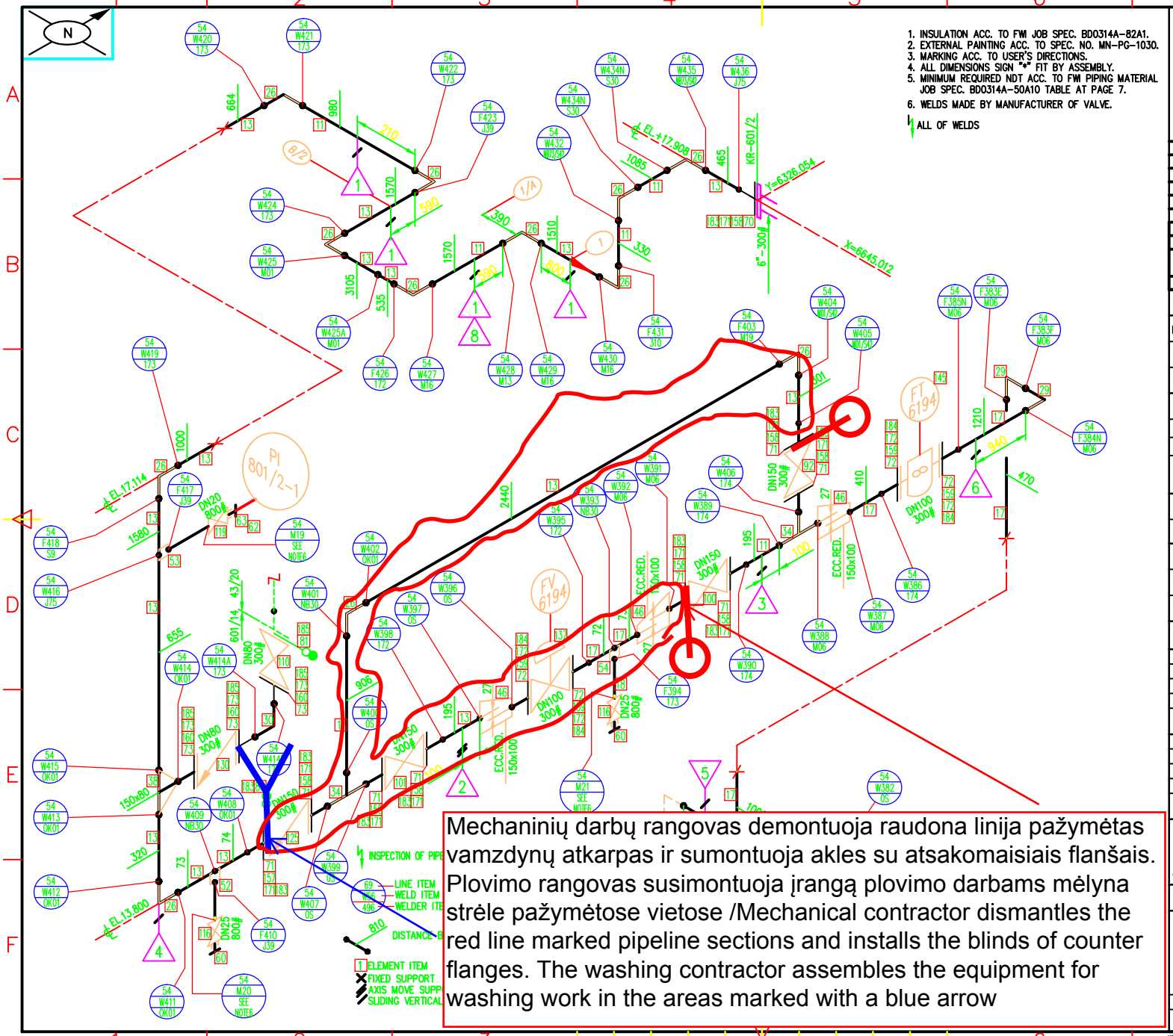
INVESTOR: AB MAŽEIKIU NAFTA
PLANT: VACUUM UNIT
PROJECT TITLE: VACUUM UNIT REBUILDING
LINE NO.: 601/14

NAFTOREMONT

PASSPORT DRAWING PREPARED BY Konczke DESIGN-ENGINEERING FIELD DIVISION

SIZE	ISO. NO.	SHEET	SHEETS	REV.
A3	603-50J/54-PK-601/14	08	12	00

WZOR:BO-106



Mechaninių darbų rangovas demontuoja raudona linija pažymėtas vamzdynų atkarpas ir sumontuoja akles su atsakomaisiais flanšais. Plovimo rangovas susimontuoja įrangą plovimo darbams mėlyna strėle pažymėtose vietose /Mechanical contractor dismantles the red line marked pipeline sections and installs the blinds of counter flanges. The washing contractor assembles the equipment for washing work in the areas marked with a blue arrow

8			ISO-GEN	CS			450			1	
7	100	114,3	PWB-GEN	–	1240					1	
6	100	114,3	PWB-GEN	–	340					1	
5	100	168,3	PWB-GEN	–	1240					2	
4	100	168,3	PWB-GEN	–	340					1	
3	100	168,3	PWB-GEN	–	340					1	
2	100	168,3	PWB-GEN	–	340					1	
1	100	168,3	PWB-GEN	–	130					4	
No.	DN	O.D.	Part Description	TYPE	H	V	X	Y	Z	Q-ty pieces/assemblies	Unit Weight kg

BILL OF SUPPORTS

OPER. MEDIUM	TOPPED CRUDE		TEST MEDIUM	WATER					
PARAMETERS	OPER.	DESIGN	TEST	QUALITY LEVEL	VT	RT/UT %		MT/PT	
PRES. barg	18	23	43	B	100	100		SEE NOTE 5	
TEMP. °C	320	365	10÷40	PWHT			YES		
100	3.5	–	–	–	–	DN	150	100	80	25
150	3.8	–	–	–	–	TYPE	HC	HC	HC	HC
DN	M.A.W.T.	DN	M.A.W.T.	DN	M.A.W.T.	THK.	100	100	100	70
MINIMUM ALLOWABLE WALL THK.				INSULATION					
HEATING	ST	MATERIAL	P5	CLASS	H2A2				
CODES	PED, ASME B31.3								
PIPING LAYOUT DWG. NO.	603-10-PJ-015								
P&I DIAGRAM NO.	GP2-S001/1-10A								
BILL OF MATERIAL NO.	603-50J/54-PR-601/14								
INSPECTION BY	TPT	CLASS ACC.TO PED	I-II						

REV.	REVISION DESCRIPTION	DATE
0	AS BUILT. FOR PASSPORT DOC. ONLY	02.2008

REV.	PREPARED BY	SIGN	CHECKED BY	SIGN	APPROVED BY	SIGN
0	J. Hoffman		D. Kwiatkowski		K. Jaworski	

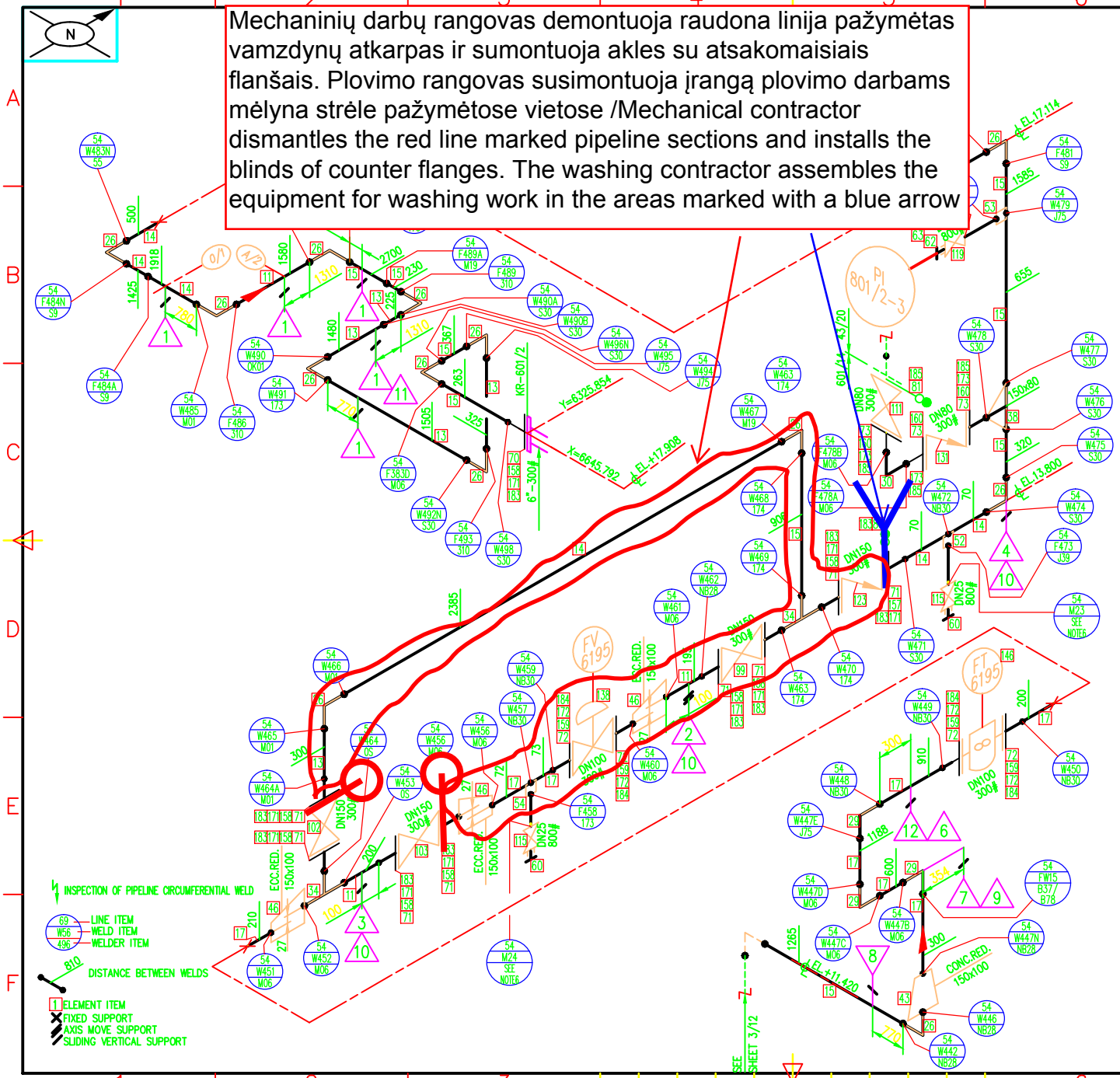
INVESTOR: AB MAŽEIKIU NAFTA
PLANT: VACUUM UNIT
PROJECT TITLE: VACUUM UNIT REBUILDING
LINE NO.: 601/14

PASSPORT DRAWING PREPARED BY Wenzke DESIGN-ENGINEERING FIELD DIVISION
NAFTOREMONT

SIZE	ISO. NO.	SHEET	SHEETS	REV.
A3	603-50J/54-PK-601/14	09	12	00

WZÓR:BO-106

Mechaninių darbų rangovas demontuoja raudona linija pažymėtas vamzdynų atkarpas ir sumontuoja akles su atsakomaisiais flanšais. Plovimo rangovas susimontuoja įrangą plovimo darbams mėlyna strėle pažymėtose vietose /Mechanical contractor dismantles the red line marked pipeline sections and installs the blinds of counter flanges. The washing contractor assembles the equipment for washing work in the areas marked with a blue arrow



No.	SH	O.D.	Part Description	TYPE	H	V	X	Y	Z	Q-ty pieces/assembly	Unit Weight	Total Piping Weight
12			KS-010	A		410	160	550		1		
11			KS-002	C4		370				1		
10			KS-002	C4		600				3		
9			KS-010		354	320				1		
8	100	108,0	PWB-035	-	510					1		
7	80	88,9	PWB-025	-	100					1		
6	100	114,3	PWB-025	-	120					1		
5			REMOVED							1		
4	100	108,0	PWB-035	-	310					1		
3	100	108,0	PWB-032	-	310					1		
2	100	108,0	PWB-032	-	310					1		
1	100	108,0	PWB-025	-	130					6		

BILL OF SUPPORTS

OPER. MEDIUM	TOPPED CRUDE	TEST MEDIUM	WATER

PARAMETERS	OPER.	DESIGN	TEST	QUALITY LEVEL	VT	RT/UT %	MT/PT	
PRES. barg	18	23	43	B	100	100		SEE NOTE 5
TEMP. °C	320	365	10÷40	PWHT			YES	

100	3.5	-	-	-	-	DN	150	100	80	25
150	3.8	-	-	-	-	TYPE	HC	HC	HC	HC
DN	M.A.W.T.	DN	M.A.W.T.	DN	M.A.W.T.	THK.	100	100	100	70

MINIMUM ALLOWABLE WALL THK.	INSULATION

HEATING	ST	MATERIAL	P5	CLASS	H2A2
CODES	PED, ASME B31.3				

PIPING LAYOUT DWG. NO.	603-10-PJ-015
P&I DIAGRAM NO.	GP2-S001/1-10A
BILL OF MATERIAL NO.	603-50J/54-PR-601/14
INSPECTION BY	TPT — CLASS ACC.TO PED: I-II

REV.	REVISION DESCRIPTION	DATE
0	AS BUILT. FOR PASSPORT DOC. ONLY	02.2008

REV.	PREPARED BY	SIGN	CHECKED BY	SIGN	APPROVED BY	SIGN
0	J. Hoffman		D. Kwiatkowski		K. Jaworski	

INVESTOR: AB MAŽEIKIU NAFTA
PLANT: VACUUM UNIT
PROJECT TITLE: VACUUM UNIT REBUILDING
LINE NO.: 601/14

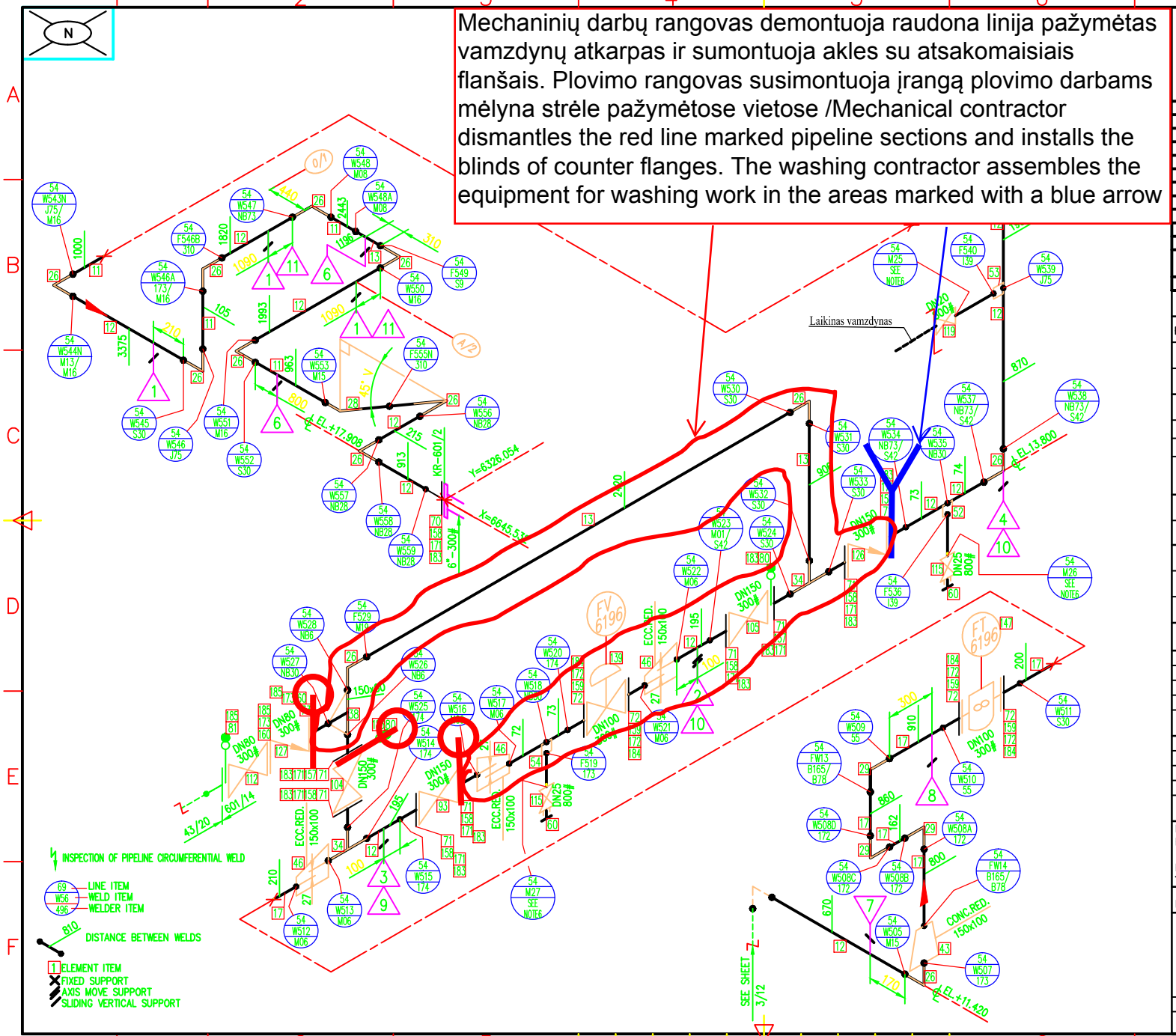
NAFTOREMONT

PASSPORT DRAWING PREPARED BY Wenczke DESIGN-ENGINEERING FIELD DIVISION

SIZE	ISO. NO.	SHEET	SHEETS	REV.
A3	603-50J/54-PK-601/14	10	12	00

WZÓR:BO-106

Mechaninių darbų rangovas demontuoja raudona linija pažymėtas vamzdynų atkarpas ir sumontuoja akles su atsakomaisiais flanšais. Plovimo rangovas susimontuoja įrangą plovimo darbams mėlyna strėle pažymėtose vietose /Mechanical contractor dismantles the red line marked pipeline sections and installs the blinds of counter flanges. The washing contractor assembles the equipment for washing work in the areas marked with a blue arrow



11			KS-002	C1		400			2			
10			KS-002	C4		940			2			
9			KS-002	C4		1100			1			
8	100	114,3	PRS-005	–	120				1			
7	150	168,3	PRS-005	–	810				1			
6	150	168,3	PRS-002	–	665				1			
5			REMOVED									
4	150	168,3	PRS-006	–	310				1			
3	150	168,3	PRS-002	–	310				1			
2	150	168,3	PRS-002	–	310				1			
1	150	168,3	PRS-005	–	130				3			
No.	DN	O.D.	Part Description	TYPE	H	V	X	Y	Z	Q-ty pieces/assembly	Unit Weight [kg]	Total Weight [kg]

BILL OF SUPPORTS

OPER. MEDIUM			TOPPED CRUDE		TEST MEDIUM		WATER		
PARAMETERS	OPER.	DESIGN	TEST	QUALITY LEVEL	VT	RT/UT %		MT/PT	
PRES. barg	18	23	43	B	100	100		SEE NOTE 5	
TEMP. °C	320	365	10÷40	PWHT			YES		
100	3.5	–	–	–	–	DN	150	100	80	25
150	3.8	–	–	–	–	TYPE	HC	HC	HC	HC
DN	M.A.W.T.	DN	M.A.W.T.	DN	M.A.W.T.	THK.	100	100	100	70

MINIMUM ALLOWABLE WALL THK.	INSULATION

HEATING	ST	MATERIAL	P5	CLASS	H2A2
CODES	PED, ASME B31.3				
PIPING LAYOUT DWG. NO.	603-10-PJ-015				
P&I DIAGRAM NO.	GP2-S001/1-10A				
BILL OF MATERIAL NO.	603-50J/54-PR-601/14				
INSPECTION BY	TPT	CLASS ACC.TO PED	1-II		

REV.	REVISION DESCRIPTION	DATE
0	AS BUILT. FOR PASSPORT DOC. ONLY	02.2008

REV.	PREPARED BY	SIGN	CHECKED BY	SIGN	APPROVED BY	SIGN
0	J. Hoffman		D. Kwiatkowski		K. Jaworski	

INVESTOR: AB MAŽEIKIU NAFTA
PLANT: VACUUM UNIT

PROJECT TITLE: VACUUM UNIT REBUILDING

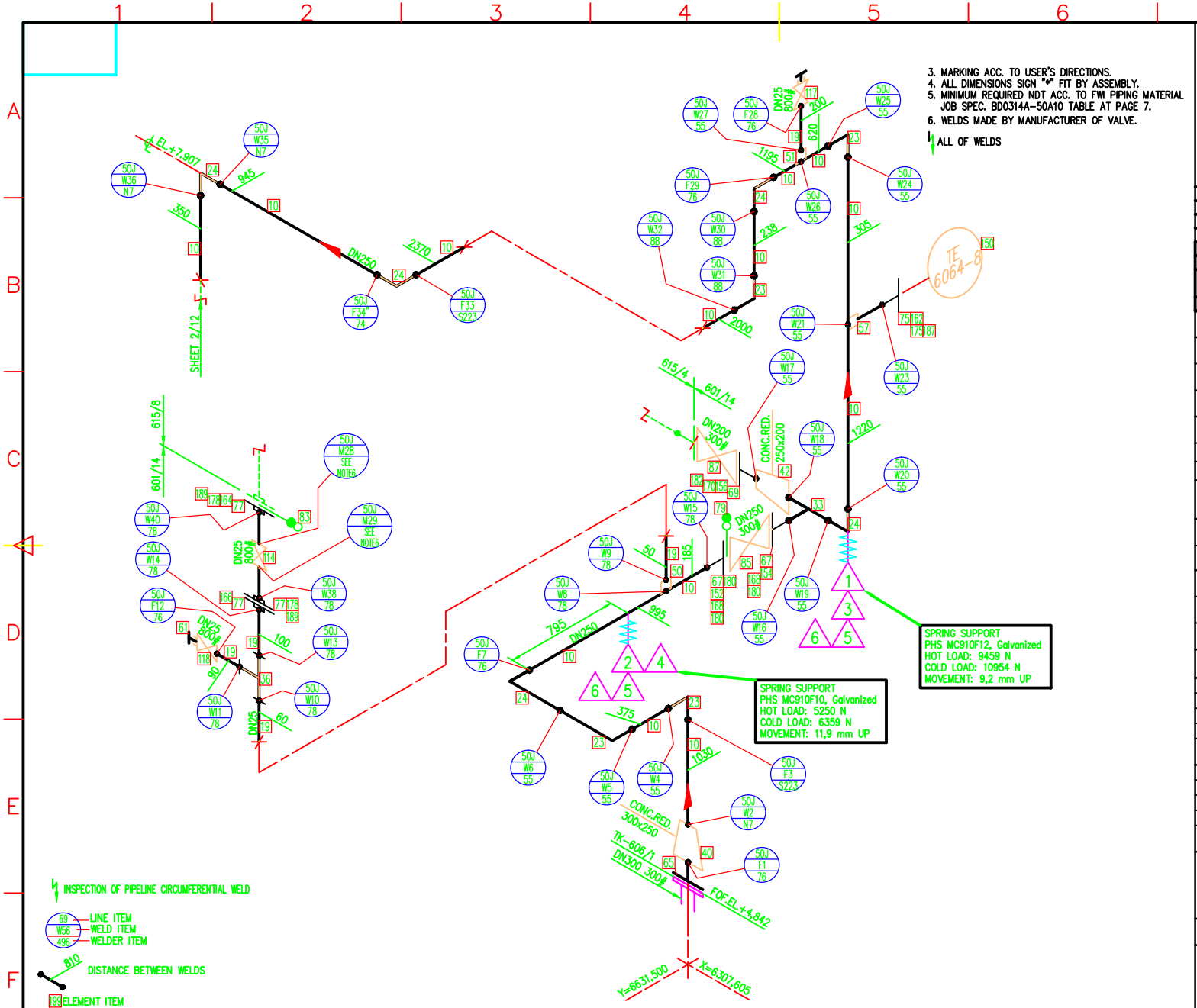
LINE NO.: 601/14

NAFTOREMONT

PASSPORT DRAWING PREPARED BY Konazko DESIGN-ENGINEERING FIELD DIVISION

SIZE	ISO. NO.	SHEET	SHEETS	REV.
A3	603-50J/54-PK-601/14	11	12	00

WZÓR:BO-106



6	220	273	KS-002	CS			1100			4		
5	220	273	KS-004	E		13	450	450		2		
4	220	273	PHS-003			257				1		
3	220	273	PHS-030			255				1		
2	220	273	MC910F10							1		
1	220	273	MC910F12							1		
No.	DN	O.D.	Part Description	TYPE	H	V	X	Y	Z	Q-ty pieces/assy	Unit Total pieces	

BILL OF SUPPORTS

OPER. MEDIUM	TOOPPED CRUDE			TEST MEDIUM		WATER				
PARAMETERS	OPER.		DESIGN		TEST	QUALITY LEVEL	VT	RT/UT %		MT/PT
PRES. barg	18		23		43	B	100	100		SEE NOTE 5
TEMP. °C	330		365		10÷40	PWHT			YES	
–	–	–	–	–	–	–	DN	250	25	–	–
250	4.3	–	–	–	–	–	TYPE	HC	HC	–	–
DN	M.A.W.T.	DN	M.A.W.T.	DN	M.A.W.T.		THK.	100	70	–	–
MINIMUM ALLOWABLE WALL THK.						INSULATION				
HEATING	ST	MATERIAL	P5	CLASS	H2A2					
CODES	PED, ASME B31.3									
PIPING LAYOUT DWG. NO.	603-10-PJ-003									
P&I DIAGRAM NO.	GP2-S001/1-06									
BILL OF MATERIAL NO.	603-50J/54-PR-601/14									
INSPECTION BY	TPT		CLASS ACC.TO PED	1-II						

REV.	REVISION DESCRIPTION	DATE
0	AS BUILT. FOR PASSPORT DOC. ONLY	02.2008

REV.	PREPARED BY	SIGN	CHECKED BY	SIGN	APPROVED BY	SIGN
0	J. Hoffman		D. Kwiatkowski		K. Jaworski	

INVESTOR: AB MAŽEIKIU NAFTA
PLANT: VACUUM UNIT
PROJECT TITLE: VACUUM UNIT REBUILDING
LINE NO.: 601/14

NAFTOREMONT
PASSPORT DRAWING PREPARED BY Henczke DESIGN-ENGINEERING FIELD DIVISION

SIZE	ISO. NO.	SHEET	SHEETS	REV.
A3	603-50J/54-PK-601/14	12	12	00

WZÓR:80-106