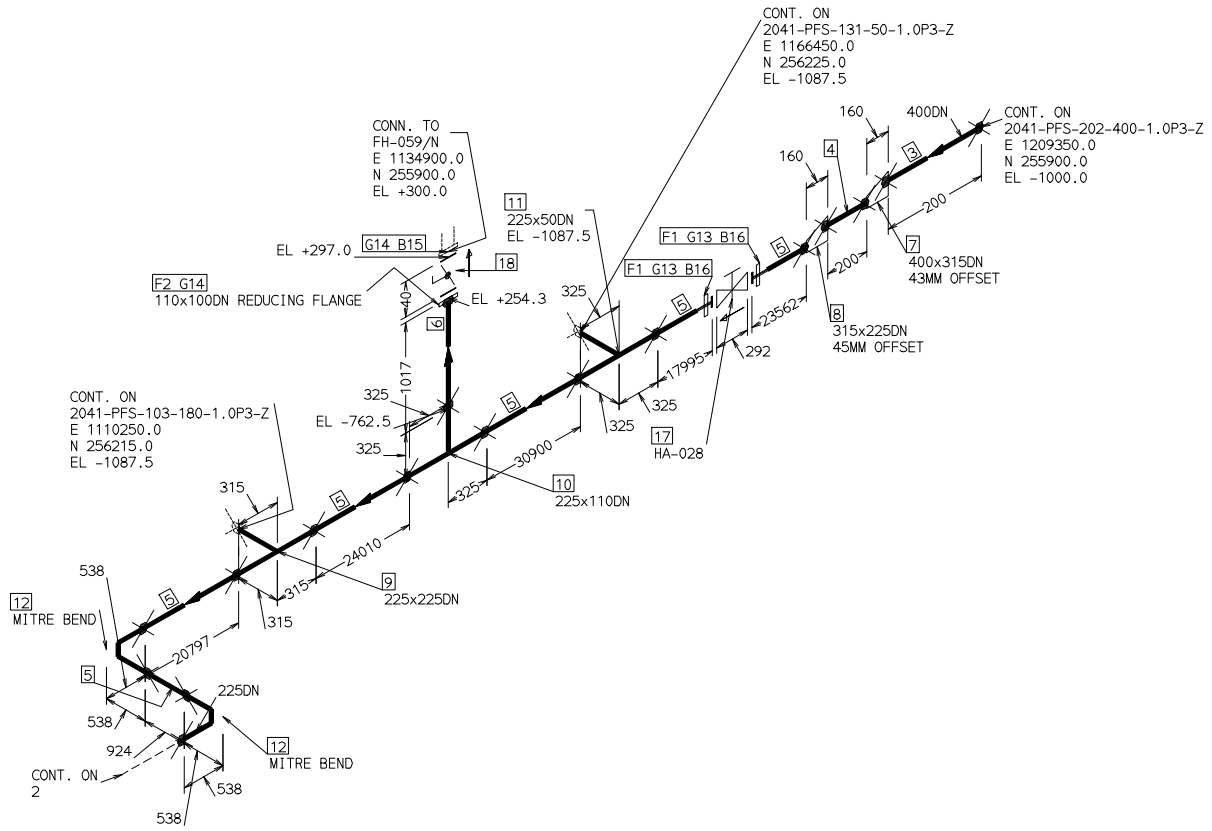
LINE NO.

2041-PFS-104-225-1.0P3-Z



BILL OF MATERIAL

FABRICATION MATERIALS

PT NO	COMPONENT DESCRIPTION	DN (MM)	PIPE CLASS	QTY
	FLANGES			
1	LNG ADAP. FLANGE, PE100 STUB END, FF, PN10, SDR17, 16963-4-BACK. RING, A395 GALV., 150#, DRLG ACC. TO B16.5	225	1.0P3	2
2	LNG ADAP. FLANGE, PE100 STUB END, FF, PN16, SDR11, 16963-4-BACK. RING, A395 GALV., DRLG ACC. DIN PN 10	110 x 100	1.0P3	1

ERECTION MATERIALS

PT NO	COMPONENT DESCRIPTION	DN (MM)	PIPE CLASS	QTY
	PIPE			
3	PIPE, BUTT FUSION, HDPE PE100, SDR11, PN16, DIN 8074	400	1.0P3	0.2M
4	PIPE, BUTT FUSION, HDPE PE100, SDR11, PN16, DIN 8074	315	1.0P3	0.2M
5	PIPE, BUTT FUSION, HDPE PE100, SDR11, PN16, DIN 8074	225	1.0P3	118.0M
6	PIPE, BUTT FUSION, HDPE PE100, SDR11, PN16, DIN 8074	110	1.0P3	1.0M
	FITTINGS			
7	ECC. REDUCER, HDPE PE100, SDR11, PN16, BF, PE, SEGMENTAL CONSTRUCTION, DIN 16963-13	400 x 315	1.0P3	1
8	ECC. REDUCER, HDPE PE100, SDR11, PN16, BF, PE, SEGMENTAL CONSTRUCTION, DIN 16963-13	315 x 225	1.0P3	1
9	EQ. TEE, HDPE PE100, SDR11, PN16, BF, PE, SEGMENTAL CONSTRUCTION, DIN 16963-2	225 x 225	1.0P3	1
10	REDUCING TEE, HDPE PE100, SDR11, PN16, BF, PE, SEGMENTAL CONSTRUCTION, DIN 16963-2	225 x 110	1.0P3	1
11	REDUCING TEE, HDPE PE100, SDR11, PN16, BF, PE, SEGMENTAL CONSTRUCTION, DIN 16963-2	225 x 50	1.0P3	1
12	BEND 90, HDPE PE100, SDR11, PN16, BF, PE, SEGMENTAL CONSTRUCTION, DIN 16963-1	225	1.0P3	2
	GASKETS			
13	GASKET, FLAT RING, FULL FACE, EPDM, 150#, FF, THK.3mm, NON-ASBESTOS, ASME B16.21	225	1.0P3	2
14	GASKET, FLAT RING, FULL FACE, EPDM, 150#, FF, THK.3mm, NON-ASBESTOS, ASME B16.21	100	1.0P3	2
	BOLTS			
15	170 STUD-BOLT WITH 2 HEAVY HEX NUTS, ASME B18.2.1/B18.2.2 - MAT: ASTM A193-B7/ASTM A194-2H GALV. COATED	5/8 INS	1.0P3	8
16	140 STUD-BOLT WITH 2 HEAVY HEX NUTS, ASME B18.2.1/B18.2.2 - MAT: ASTM A193-B7/ASTM A194-2H GALV. COATED	3/4 INS	1.0P3	16
	VALVES / IN-LINE ITEMS			
17	POST INDICATOR VALVE, #150, FF, Body: A216-WCB, Trim:13CR, Seat: STL HA-028	200		1
18	BUTTERFLY VALVE, FF ,SEAT NBR, SURFACE NBR/NBR, WAFER TYPE, RUBBER SEATED, API 609 CATEGORY A, H.OP, PN 10	100	1.0P3	1

APPROVED FOR CONSTRUCTION

OWNER: SOUTH ALUMINUM CORPORATION — کارفرما:
شرکت مجتمع صنایع آلومینیوم جنوب

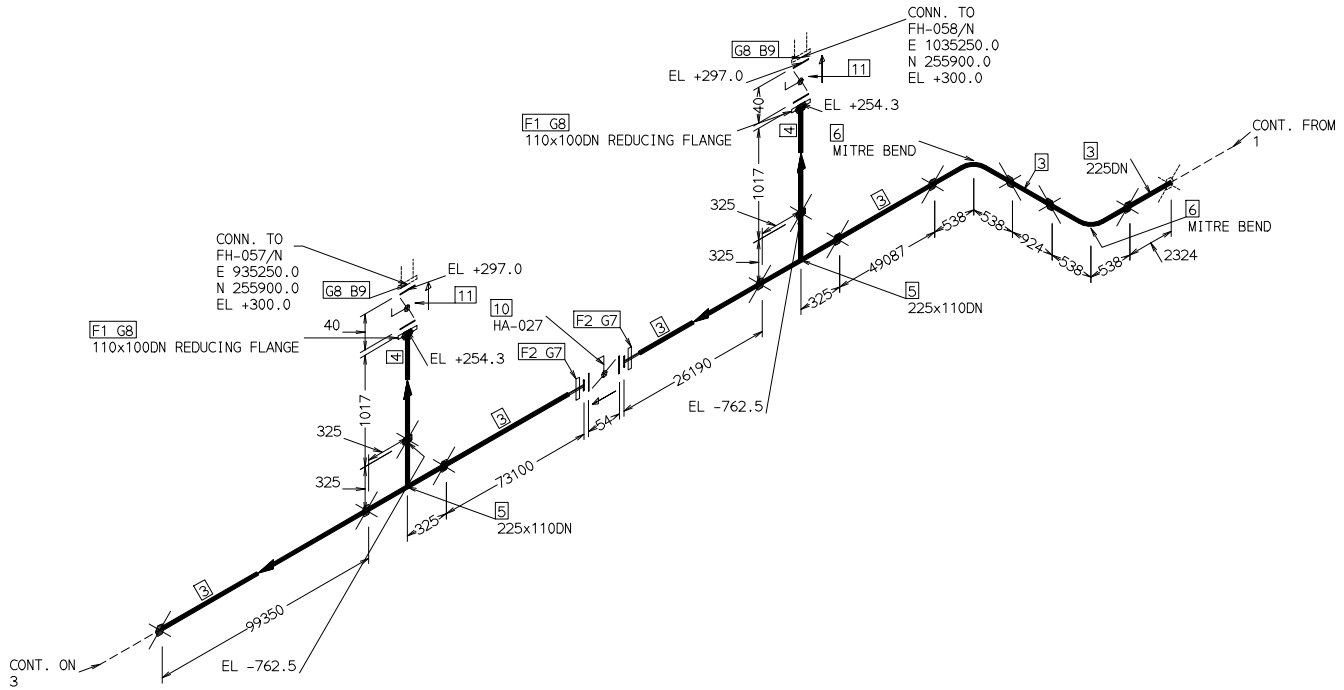
CONSULTANT : TARH-E-NOWANDISHAN CONS. ENG. CO. — مشاور :
مهندسین مشاور طرح نواندیشان

Project:
مشاور بازطراحی خطوط آب آتش نشانی، هوای فشرده و آب برگشتی
تصفیه خانه مجتمع صنایع آلومینیوم جنوب

REV.	DATE	DESCRIPTION	PREPARED BY	CHECKED BY	APPROVED BY	CLIENT BY
C1	1402.07.19	APPROVED FOR CONSTRUCTION	M.Doroudian	M.S.Fayaz	M.J.Akbarpour	

NOTES:
1. ALL DIMENSIONS, COORDINATION AND ELEVATION ARE IN MILLIMETER.
2. ACTUAL SIZE OF PIPING/INSTRUMENT/EQUIPMENT COMPONENTS SHALL BE CHECKED BY CONSTRUCTION CONTRACTOR BEFORE FABRICATION AND ERECTION.
3. ROOT GAPS OF BUTTWELD FITTINGS ARE NOT INCLUDED IN DIMENSIONS.

DES. PRESS.: 10 Bar g	TEST. MEDIA: WATER	Title: Water Pipeline Isometric Drawing	Scale: N.T.S
DES. TEMP.: 50 °C	INSUL.: - mm	Line No: 2041-PFS-104-225-1.0P3-Z	Sheet: 1 OF 6
TEST. PRESS.: 15 Bar g	P&ID NO. 15010609BE-DR-2041WS-2010	Size: A3 Drawing No: 15010609DE-DR-2041WS-1010	Rev: C1



BILL OF MATERIAL

FABRICATION MATERIALS

PT NO	COMPONENT DESCRIPTION	DN (MM)	PIPE CLASS	QTY
	FLANGES			
1	LNG ADAP. FLANGE, PE100 STUB END, FF, PN16, SDR11, 16963-4-BACK. RING, A395 GALV., DRLG ACC. DIN PN 10	110 x 100	1.0P3	2
2	LNG ADAP. FLANGE, PE100 STUB END, FF, PN10, SDR17, 16963-4-BACK. RING, A395 GALV., 150#, DRLG ACC. TO B16.5	225	1.0P3	2

ERECTION MATERIALS

PT NO	COMPONENT DESCRIPTION	DN (MM)	PIPE CLASS	QTY
	PIPE			
3	PIPE, BUTT FUSION, HDPE PE100, SDR11, PN16, DIN 8074	225	1.0P3	250.8M
4	PIPE, BUTT FUSION, HDPE PE100, SDR11, PN16, DIN 8074	110	1.0P3	1.9M
	FITTINGS			
5	REDUCING TEE, HDPE PE100, SDR11, PN16, BF, PE, SEGMENTAL CONSTRUCTION, DIN 16963-2	225 x 110	1.0P3	2
6	BEND 90, HDPE PE100, SDR11, PN16, BF, PE, SEGMENTAL CONSTRUCTION, DIN 16963-1	225	1.0P3	2
	GASKETS			
7	GASKET, FLAT RING, FULL FACE, EPDM, 150#, FF, THK.3mm, NON-ASBESTOS, ASME B16.21	225	1.0P3	2
8	GASKET, FLAT RING, FULL FACE, EPDM, 150#, FF, THK.3mm, NON-ASBESTOS, ASME B16.21	100	1.0P3	4
	BOLTS			
9	170 STUD-BOLT WITH 2 HEAVY HEX NUTS, ASME B18.2.1/B18.2.2 - MAT: ASTM A193-B7/ASTM A194-2H GALV. COATED	5/8 INS	1.0P3	16
	VALVES / IN-LINE ITEMS			
10	BUTTERFLY VALVE, FLGD., FF ,SEAT NBR, SURFACE NBR/NBR, WAFER TYPE, RUBBER SEATED, API 609 CATEGORY A, G.OP,150# HA-027	200		1
11	BUTTERFLY VALVE, FLGD., FF ,SEAT NBR, SURFACE NBR/NBR, WAFER TYPE, RUBBER SEATED, API 609 CATEGORY A, H.OP, PN 10	100	1.0P3	2

APPROVED FOR CONSTRUCTION

OWNER: SOUTH ALUMINUM CORPORATION — کارفرما:
شرکت مجتمع صنایع آلومینیوم جنوب

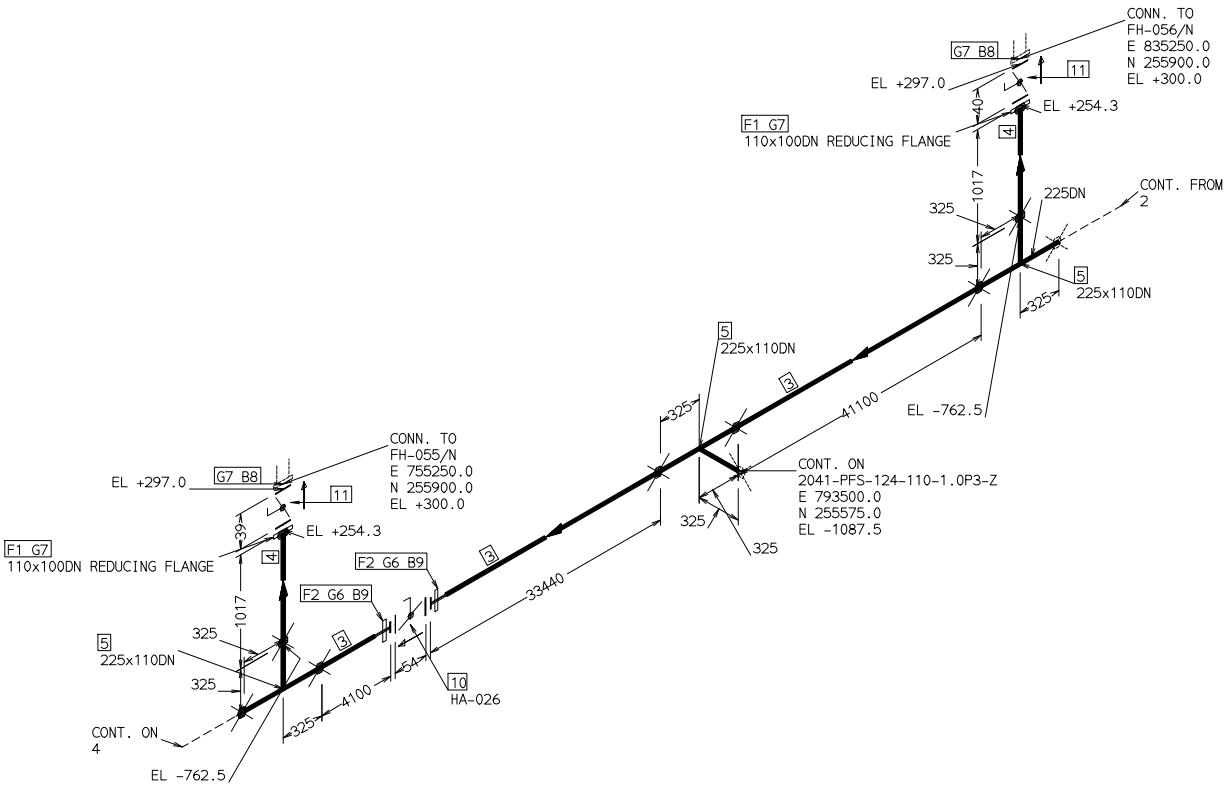
CONSULTANT : TARH-E-NOWANDISHAN CONS. ENG. CO. — مشاور :
مهندسین مشاور طرح نواندیشان

Project:
مشاور بازطراحی خطوط آب آتش نشانی، هوای فشرده و آب برگشتی
تصفیه خانه مجتمع صنایع آلومینیوم جنوب

REV.	DATE	DESCRIPTION	PREPARED BY	CHECKED BY	APPROVED BY	CLIENT BY
C1	1402.07.19	APPROVED FOR CONSTRUCTION	M.Doroudian	M.S.Fayaz	M.J.Akbarpour	

NOTES:
1. ALL DIMENSIONS, COORDINATION AND ELEVATION ARE IN MILLIMETER.
2. ACTUAL SIZE OF PIPING/INSTRUMENT/EQUIPMENT COMPONENTS SHALL BE CHECKED BY CONSTRUCTION CONTRACTOR BEFORE FABRICATION AND ERECTION.
3. ROOT GAPS OF BUTTWELD FITTINGS ARE NOT INCLUDED IN DIMENSIONS.

DES. PRESS.: 10 Bar g	TEST. MEDIA: WATER	Title: Water Pipeline Isometric Drawing	Scale: N.T.S
DES. TEMP.: 50 °C	INSUL.: - mm	Line No: 2041-PFS-104-225-1.0P3-Z	Sheet: 2 OF 6
TEST. PRESS.: 15 Bar g	P&ID NO. 15010609BE-DR-2041WS-2010	Size: A3	Drawing No: 15010609DE-DR-2041WS-1010 Rev: C1



BILL OF MATERIAL

FABRICATION MATERIALS

PT NO	COMPONENT DESCRIPTION	DN (MM)	PIPE CLASS	QTY
	FLANGES			
1	LNG ADAP. FLANGE, PE100 STUB END, FF, PN16, SDR11, 16963-4-BACK. RING, A395 GALV., DRLG ACC. DIN PN 10	110 x 100	1.0P3	2
2	LNG ADAP. FLANGE, PE100 STUB END, FF, PN10, SDR17, 16963-4-BACK. RING, A395 GALV., 150#, DRLG ACC. TO B16.5	225	1.0P3	2

ERECTION MATERIALS

PT NO	COMPONENT DESCRIPTION	DN (MM)	PIPE CLASS	QTY
	PIPE			
3	PIPE, BUTT FUSION, HDPE PE100, SDR11, PN16, DIN 8074	225	1.0P3	78.5M
4	PIPE, BUTT FUSION, HDPE PE100, SDR11, PN16, DIN 8074	110	1.0P3	1.9M
	FITTINGS			
5	REDUCING TEE, HDPE PE100, SDR11, PN16, BF, PE, SEGMENTAL CONSTRUCTION, DIN 16963-2	225 x 110	1.0P3	3
	GASKETS			
6	GASKET, FLAT RING, FULL FACE, EPDM, 150#, FF, THK.3mm, NON-ASBESTOS, ASME B16.21	225	1.0P3	2
7	GASKET, FLAT RING, FULL FACE, EPDM, 150#, FF, THK.3mm, NON-ASBESTOS, ASME B16.21	100	1.0P3	4
	BOLTS			
8	170 STUD-BOLT WITH 2 HEAVY HEX NUTS, ASME B18.2.1/B18.2.2 - MAT: ASTM A193-B7/ASTM A194-2H GALV. COATED	5/8 INS	1.0P3	16
9	140 STUD-BOLT WITH 2 HEAVY HEX NUTS, ASME B18.2.1/B18.2.2 - MAT: ASTM A193-B7/ASTM A194-2H GALV. COATED	3/4 INS	1.0P3	16
	VALVES / IN-LINE ITEMS			
10	BUTTERFLY VALVE, FF ,SEAT NBR, SURFACE NBR/NBR, WAFER TYPE, RUBBER SEATED, API 609 CATEGORY A, G.OP,150# HA-026	200		1
11	BUTTERFLY VALVE, FLGD., FF ,SEAT NBR, SURFACE NBR/NBR, WAFER TYPE, RUBBER SEATED, API 609 CATEGORY A, H.OP, PN 10	100	1.0P3	2

APPROVED FOR CONSTRUCTION

OWNER: SOUTH ALUMINUM CORPORATION — کارفرما:
شرکت مجتمع صنایع آلومینیوم جنوب

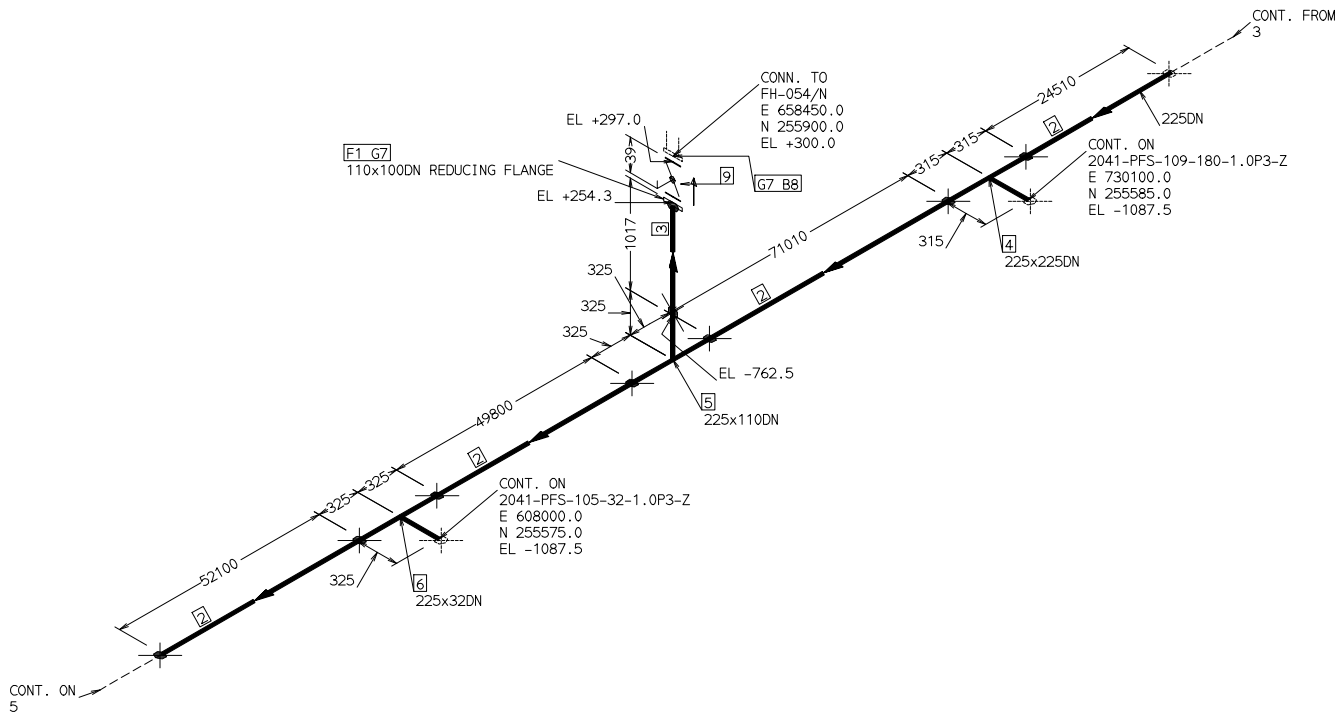
CONSULTANT : TARH-E-NOWANDISHAN CONS. ENG. CO. — مشاور :
مهندسین مشاور طرح نواندیشان

Project:
مشاور بازطراحی خطوط آب آتش نشانی، هوای فشرده و آب برگشتی
تصفیه خانه مجتمع صنایع آلومینیوم جنوب

REV.	DATE	DESCRIPTION	PREPARED BY	CHECKED BY	APPROVED BY	CLIENT BY
C1	1402.07.19	APPROVED FOR CONSTRUCTION	M.Doroudian	M.S.Fayaz	M.J.Akbarpour	

NOTES:
1. ALL DIMENSIONS, COORDINATION AND ELEVATION ARE IN MILLIMETER.
2. ACTUAL SIZE OF PIPING/INSTRUMENT/EQUIPMENT COMPONENTS SHALL BE CHECKED BY CONSTRUCTION CONTRACTOR BEFORE FABRICATION AND ERECTION.
3. ROOT GAPS OF BUTTWELD FITTINGS ARE NOT INCLUDED IN DIMENSIONS.

DES. PRESS.: 10 Bar g	TEST. MEDIA: WATER	Title: Water Pipeline Isometric Drawing	Scale: N.T.S
DES. TEMP.: 50 °C	INSUL.: - mm	Line No: 2041-PFS-104-225-1.0P3-Z	Sheet: 3 OF 6
TEST. PRESS.: 15 Bar g	P&ID NO. 15010609BE-DR-2041WS-2010	Size: A3	Drawing No: 15010609DE-DR-2041WS-1010 Rev: C1



BILL OF MATERIAL

FABRICATION MATERIALS

PT NO	COMPONENT DESCRIPTION	DN (MM)	PIPE CLASS	QTY
	FLANGES			
1	LNG ADAP. FLANGE, PE100 STUB END, FF, PN16, SDR11, 16963-4-BACK. RING, A395 GALV., DRLG ACC. DIN PN 10	110 x 100	1.0P3	1

ERECTION MATERIALS

PT NO	COMPONENT DESCRIPTION	DN (MM)	PIPE CLASS	QTY
	PIPE			
2	PIPE, BUTT FUSION, HDPE PE100, SDR11, PN16, DIN 8074	225	1.0P3	197.5M
3	PIPE, BUTT FUSION, HDPE PE100, SDR11, PN16, DIN 8074	110	1.0P3	1.0M
	FITTINGS			
4	EQ. TEE, HDPE PE100, SDR11, PN16, BF, PE, SEGMENTAL CONSTRUCTION, DIN 16963-2	225 x 225	1.0P3	1
5	REDUCING TEE, HDPE PE100, SDR11, PN16, BF, PE, SEGMENTAL CONSTRUCTION, DIN 16963-2	225 x 110	1.0P3	1
6	REDUCING TEE, HDPE PE100, SDR11, PN16, BF, PE, SEGMENTAL CONSTRUCTION, DIN 16963-2	225 x 32	1.0P3	1
	GASKETS			
7	GASKET, FLAT RING, FULL FACE, EPDM, 150#, FF, THK.3mm, NON-ASBESTOS, ASME B16.21	100	1.0P3	2
	BOLTS			
8	170 STUD-BOLT WITH 2 HEAVY HEX NUTS, ASME B18.2.1/B18.2.2 - MAT: ASTM A193-B7/ASTM A194-2H GALV. COATED	5/8 INS	1.0P3	8
	VALVES / IN-LINE ITEMS			
9	BUTTERFLY VALVE, FF ,SEAT NBR, SURFACE NBR/NBR, WAFER TYPE, RUBBER SEATED, API 609 CATEGORY A, H.OP, PN10	100	1.0P3	1

APPROVED FOR CONSTRUCTION

OWNER: SOUTH ALUMINUM CORPORATION — کارفرما: شرکت مجتمع صنایع آلومینیوم جنوب

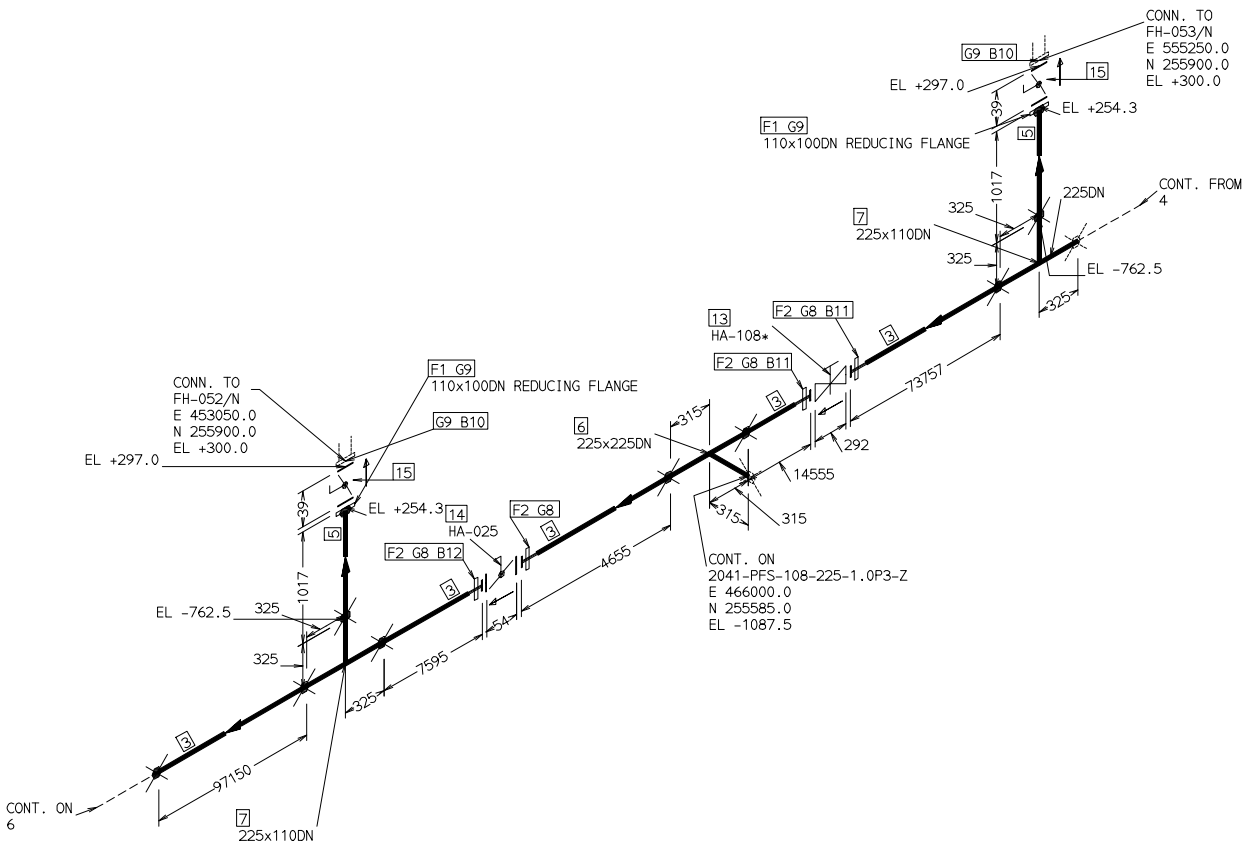
CONSULTANT : TARH-E-NOWANDISHAN CONS. ENG. CO. — مشاور : مهندسین مشاور طرح نواندیشان

Project: مشاور بازطراحی خطوط آب آتش نشانی، هوای فشرده و آب برگشتی تصفیه خانه مجتمع صنایع آلومینیوم جنوب

REV.	DATE	DESCRIPTION	PREPARED BY	CHECKED BY	APPROVED BY	CLIENT BY
C1	1402.07.19	APPROVED FOR CONSTRUCTION	M.Doroudian	M.S.Fayaz	M.J.Akbarpour	

NOTES:
1. ALL DIMENSIONS, COORDINATION AND ELEVATION ARE IN MILLIMETER.
2. ACTUAL SIZE OF PIPING/INSTRUMENT/EQUIPMENT COMPONENTS SHALL BE CHECKED BY CONSTRUCTION CONTRACTOR BEFORE FABRICATION AND ERECTION.
3. ROOT GAPS OF BUTTWELD FITTINGS ARE NOT INCLUDED IN DIMENSIONS.

DES. PRESS.: 10 Bar g	TEST. MEDIA: WATER	Title: Water Pipeline Isometric Drawing	Scale: N.T.S
DES. TEMP.: 50 °C	INSUL.: - mm	Line No: 2041-PFS-104-225-1.0P3-Z	Sheet: 4 OF 6
TEST. PRESS.: 15 Bar g	P&ID NO. 15010609BE-DR-2041WS-2010	Size: A3	Drawing No: 15010609DE-DR-2041WS-1010 Rev: C1



BILL OF MATERIAL

FABRICATION MATERIALS

PT NO	COMPONENT DESCRIPTION	DN (MM)	PIPE CLASS	QTY
	FLANGES			
1	LNG ADAP. FLANGE, PE100 STUB END, FF, PN16, SDR11, 16963-4-BACK. RING, A395 GALV., DRLG ACC. DIN PN 10	110 x 100	1.0P3	2
2	LNG ADAP. FLANGE, PE100 STUB END, FF, PN10, SDR17, 16963-4-BACK. RING, A395 GALV., 150#, DRLG ACC. TO B16.5	225	1.0P3	4

ERECTION MATERIALS

PT NO	COMPONENT DESCRIPTION	DN (MM)	PIPE CLASS	QTY
	PIPE			
3	PIPE, BUTT FUSION, HDPE PE100, SDR11, PN16, DIN 8074	225	1.0P3	197.4M
4	PIPE, BUTT FUSION, HDPE PE100, SDR11, PN16, DIN 8074	200	1.0P3	0.1M
5	PIPE, BUTT FUSION, HDPE PE100, SDR11, PN16, DIN 8074	110	1.0P3	1.9M
	FITTINGS			
6	EQ. TEE, HDPE PE100, SDR11, PN16, BF, PE, SEGMENTAL CONSTRUCTION, DIN 16963-2	225 x 225	1.0P3	1
7	REDUCING TEE, HDPE PE100, SDR11, PN16, BF, PE, SEGMENTAL CONSTRUCTION, DIN 16963-2	225 x 110	1.0P3	2
	GASKETS			
8	GASKET, FLAT RING, FULL FACE, EPDM, 150#, FF, THK.3mm, NON-ASBESTOS, ASME B16.21	225	1.0P3	4
9	GASKET, FLAT RING, FULL FACE, EPDM, 150#, FF, THK.3mm, NON-ASBESTOS, ASME B16.21	100	1.0P3	4
	BOLTS			
10	170 STUD-BOLT WITH 2 HEAVY HEX NUTS, ASME B18.2.1/B18.2.2 - MAT: ASTM A193-B7/ASTM A194-2H GALV. COATED	5/8 INS	1.0P3	16
11	140 STUD-BOLT WITH 2 HEAVY HEX NUTS, ASME B18.2.1/B18.2.2 - MAT: ASTM A193-B7/ASTM A194-2H GALV. COATED	3/4 INS	1.0P3	16
12	200 STUD-BOLT WITH 2 HEAVY HEX NUTS, ASME B18.2.1/B18.2.2 - MAT: ASTM A193-B7/ASTM A194-2H GALV. COATED	3/4 INS	1.0P3	8
	VALVES / IN-LINE ITEMS			
13	POST INDICATOR VALVE, #150, FF, Body: A216-WCB, Trim:13CR, Seat: STL HA-108*	200		1
14	BUTTERFLY VALVE, FLGD., FF ,SEAT NBR, SURFACE NBR/NBR, WAFER TYPE, RUBBER SEATED, API 609 CATEGORY A, G.OP,150# HA-025	200		1
15	BUTTERFLY VALVE, FF ,SEAT NBR, SURFACE NBR/NBR, WAFER TYPE, RUBBER SEATED, API 609 CATEGORY A, H.OP, PN 10	100	1.0P3	2

APPROVED FOR CONSTRUCTION

OWNER: SOUTH ALUMINUM CORPORATION — کارفرما: شرکت مجتمع صنایع آلومینیوم جنوب

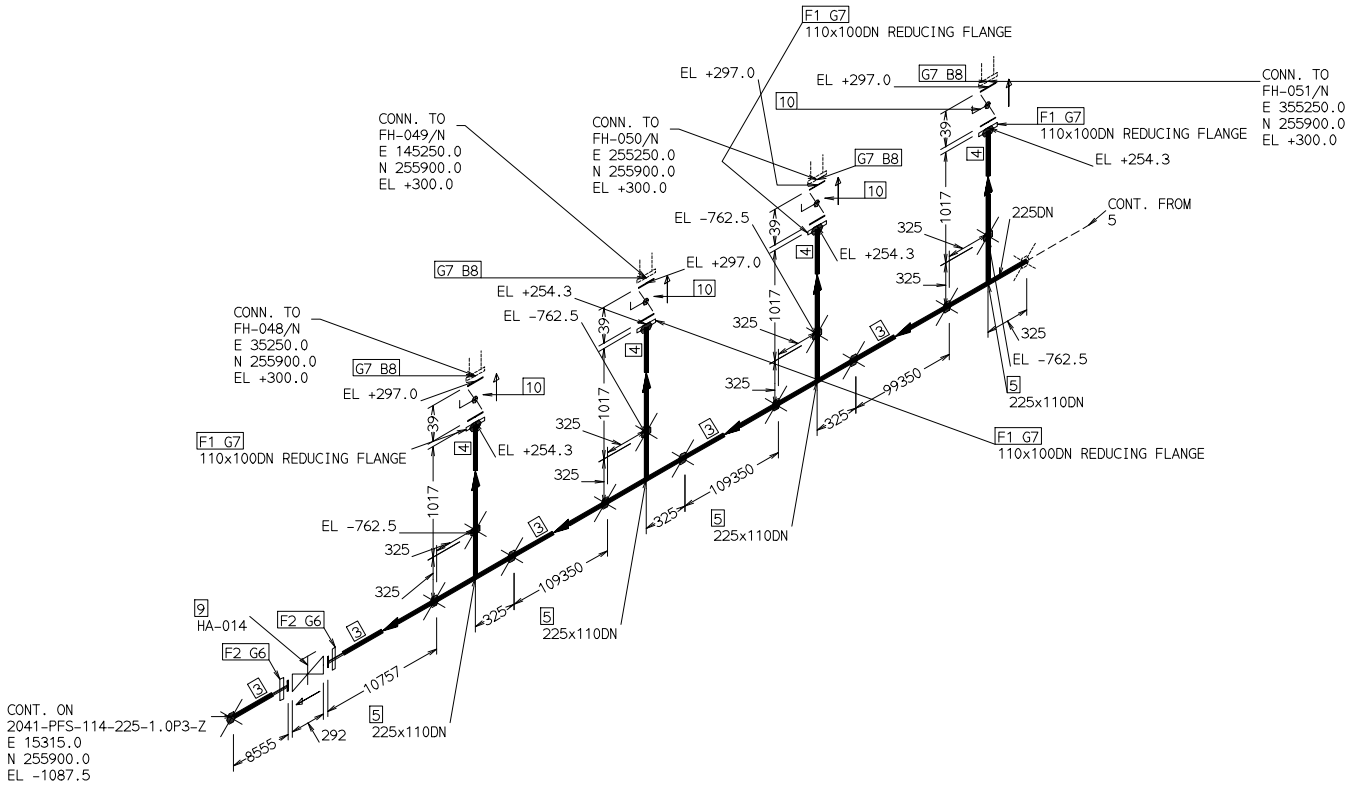
CONSULTANT : TARH-E-NOWANDISHAN CONS. ENG. CO. — مشاور : مهندسین مشاور طرح نواندیشان

Project: مشاور بازطراحی خطوط آب آتش نشانی، هوای فشرده و آب برگشتی تصفیه خانه مجتمع صنایع آلومینیوم جنوب

REV.	DATE	DESCRIPTION	PREPARED BY	CHECKED BY	APPROVED BY	CLIENT BY
C1	1402.07.19	APPROVED FOR CONSTRUCTION	M.Doroudian	M.S.Fayaz	M.J.Akbarpour	

NOTES:
1. ALL DIMENSIONS, COORDINATION AND ELEVATION ARE IN MILLIMETER.
2. ACTUAL SIZE OF PIPING/INSTRUMENT/EQUIPMENT COMPONENTS SHALL BE CHECKED BY CONSTRUCTION CONTRACTOR BEFORE FABRICATION AND ERECTION.
3. ROOT GAPS OF BUTTWELD FITTINGS ARE NOT INCLUDED IN DIMENSIONS.

DES. PRESS.: 10 Bar g	TEST. MEDIA: WATER	Title: Water Pipeline Isometric Drawing	Scale: N.T.S
DES. TEMP.: 50 °C	INSUL.: - mm	Line No: 2041-PFS-104-225-1.0P3-Z	Sheet: 5 OF 6
TEST. PRESS.: 15 Bar g	P&ID NO. 15010609BE-DR-2041WS-2010	Size: A3 Drawing No: 15010609DE-DR-2041WS-1010	Rev: C1



BILL OF MATERIAL

FABRICATION MATERIALS

PT NO	COMPONENT DESCRIPTION	DN (MM)	PIPE CLASS	QTY
	FLANGES			
1	LNG ADAP. FLANGE, PE100 STUB END, FF, PN16, SDR11, 16963-4-BACK. RING, A395 GALV., DRLG ACC. DIN PN 10	110 x 100	1.0P3	4
2	LNG ADAP. FLANGE, PE100 STUB END, FF, PN10, SDR17, 16963-4-BACK. RING, A395 GALV., 150#, DRLG ACC. TO B16.5	225	1.0P3	2

ERECTION MATERIALS

PT NO	COMPONENT DESCRIPTION	DN (MM)	PIPE CLASS	QTY
	PIPE			
3	PIPE, BUTT FUSION, HDPE PE100, SDR11, PN16, DIN 8074	225	1.0P3	337.2M
4	PIPE, BUTT FUSION, HDPE PE100, SDR11, PN16, DIN 8074	110	1.0P3	3.7M
	FITTINGS			
5	REDUCING TEE, HDPE PE100, SDR11, PN16, BF, PE, SEGMENTAL CONSTRUCTION, DIN 16963-2	225 x 110	1.0P3	4
	GASKETS			
6	GASKET, FLAT RING, FULL FACE, EPDM, 150#, FF, THK.3mm, NON-ASBESTOS, ASME B16.21	225	1.0P3	2
7	GASKET, FLAT RING, FULL FACE, EPDM, 150#, FF, THK.3mm, NON-ASBESTOS, ASME B16.21	100	1.0P3	8
	BOLTS			
8	170 STUD-BOLT WITH 2 HEAVY HEX NUTS, ASME B18.2.1/B18.2.2 - MAT: ASTM A193-B7/ASTM A194-2H GALV. COATED	5/8 INS	1.0P3	32
	VALVES / IN-LINE ITEMS			
9	POST INDICATOR VALVE, #150, FF, Body: A216-WCB, Trim:13CR, Seat: STL HA-014	200		1
10	BUTTERFLY VALVE, FF ,SEAT NBR, SURFACE NBR/NBR, WAFER TYPE, RUBBER SEATED, API 609 CATEGORY A, H.O.P,PN 10	100	1.0P3	4

APPROVED FOR CONSTRUCTION

OWNER: SOUTH ALUMINUM CORPORATION — کارفرما:
شرکت مجتمع صنایع آلومینیوم جنوب

CONSULTANT : TARH-E-NOWANDISHAN CONS. ENG. CO. — مشاور :
مهندسین مشاور طرح نواندیشان

Project:
مشاور بازطراحی خطوط آب آتش نشانی، هوای فشرده و آب برگشتی
تصفیه خانه مجتمع صنایع آلومینیوم جنوب

REV.	DATE	DESCRIPTION	PREPARED BY	CHECKED BY	APPROVED BY	CLIENT BY
C1	1402.07.19	APPROVED FOR CONSTRUCTION	M.Doroudian	M.S.Fayaz	M.J.Akbarpour	

NOTES:
1. ALL DIMENSIONS, COORDINATION AND ELEVATION ARE IN MILLIMETER.
2. ACTUAL SIZE OF PIPING/INSTRUMENT/EQUIPMENT COMPONENTS SHALL BE CHECKED BY CONSTRUCTION CONTRACTOR BEFORE FABRICATION AND ERECTION.
3. ROOT GAPS OF BUTTWELD FITTINGS ARE NOT INCLUDED IN DIMENSIONS.

DES. PRESS.: 10 Bar g	TEST. MEDIA: WATER	Title: Water Pipeline Isometric Drawing	Scale: N.T.S
DES. TEMP.: 50 °C	INSUL.: - mm	Line No: 2041-PFS-104-225-1.0P3-Z	Sheet: 6 OF 6
TEST. PRESS.: 15 Bar g	P&ID NO. 15010609BE-DR-2041WS-2010	Size: A3 Drawing No: 15010609DE-DR-2041WS-1010	Rev: C1