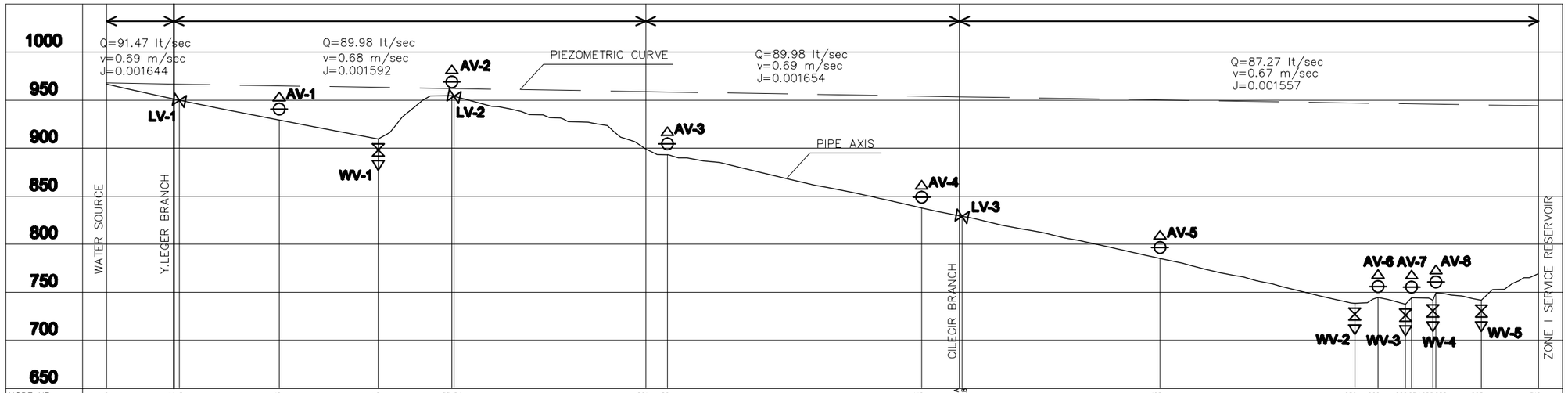
GUSAR

QUSAR

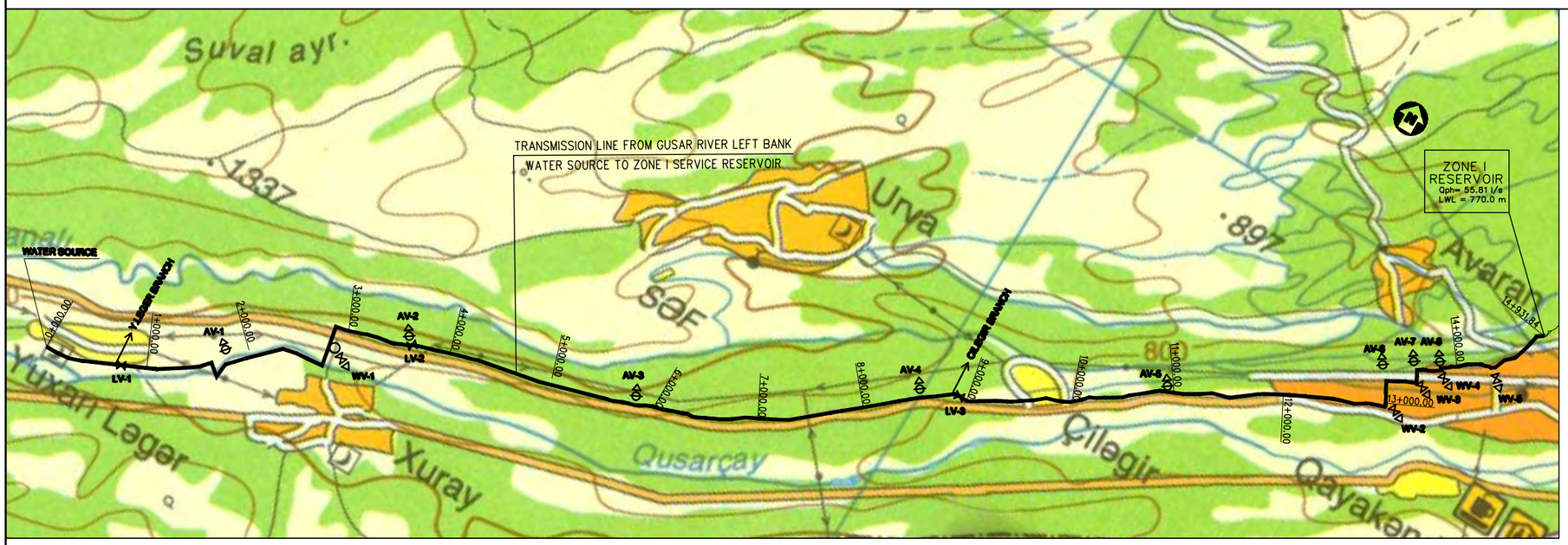
Gusar Transmission Lines From Water Source to Left Bank Zone I Service Reservoir



NODE NR	0	4A 5	12	18	33 34	S61 80	142	152A 152B	198	252	262	269 274 286 288	295	318
PIPE AXIS ELEVATION (m)	966.67	951.06 949.89	929.39	909.47	954.67 954.06	899.20 893.29	837.66	829.76 829.19	785.35	738.60	744.60	737.46 744.21 740.84 749.44	741.72	769.60
DISTANCE (m)	0+000.00	0+703.18 0+799.38	1+800.00	2+832.85	3+600.00 3+622.68	5+621.54 5+847.44	8+498.80	8+893.43 8+920.00	10983.92	13+014.82	13+257.86	13+543.99 13+607.51 13+828.88 13+861.88	14+334.20	14+931.84
PIEZOMETRIC ELEVATION (m)	967.88	966.72 966.63	964.97	963.33	962.11 962.07	958.89 958.52	954.13	953.48 953.44	950.23	947.06	946.69	946.24 946.14 945.90 945.75	945.01	944.08
OPERATIONAL PRESSURE (m)	1.21	15.66 16.74	35.58	53.86	7.44 8.01	59.69 65.23	116.47	123.72 124.25	164.88	208.46	202.09	208.78 201.93 203.96 196.11	203.29	174.48
STATIC PRESSURE (m)	1.21	16.82 17.99	38.49	58.41	13.21 13.82	68.68 74.59	130.22	138.12 138.69	182.53	229.28	223.28	230.42 223.67 228.04 218.84	226.16	198.28
PIPE DIAMETER PIPE TYPE		DN400 GRP PIPE (PN10, SN5000, OUTER DIAMETER=475mm, t=7.9mm)					DN400 GRP PIPE (PN25, SN10000, OUTER DIAMETER=475mm, t=9.4mm)							

1/2500

1/25000



LEGEND

- AIR VALVE
- WASHOUT VALVE
- LINE VALVE

AV = AIR VALVE
WV = WASHOUT VALVE
LV = LINE VALVE

ÖLÇEK / SCALE : 1/2500

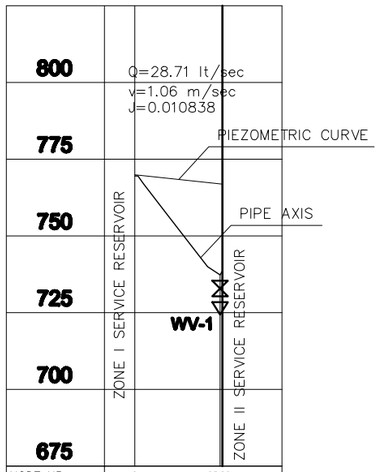
0 50 100 150 200 250m

ÖLÇEK / SCALE : 1/25000

0 500 1000 1500 2000 2500m

SPECIAL ASSISTANCE FOR PROJECT IMPLEMENTATION (SAPI) FOR THE PROVINCIAL CITIES WATER SUPPLY AND SEWERAGE PROJECT IN THE REPUBLIC OF AZERBAIJAN	AZERSU JOINT STOCK COMPANY, the Republic of Azerbaijan Japan International Cooperation Agency (JICA), Japan	Site : Gusar	Facility : Gusar Transmission Lines	Title : Plan & Hydraulic Profile (1/3)	Scale of Drawing : 1/25000 Original Size of Paper : A1	Category - City SU-GUS- Date March 2010	Facility Code - Number 09-01(01) Revision Number Rev.0

Gusar Transmission Lines From Left Bank
Zone I Service Reservoir to Zone II Service Reservoir

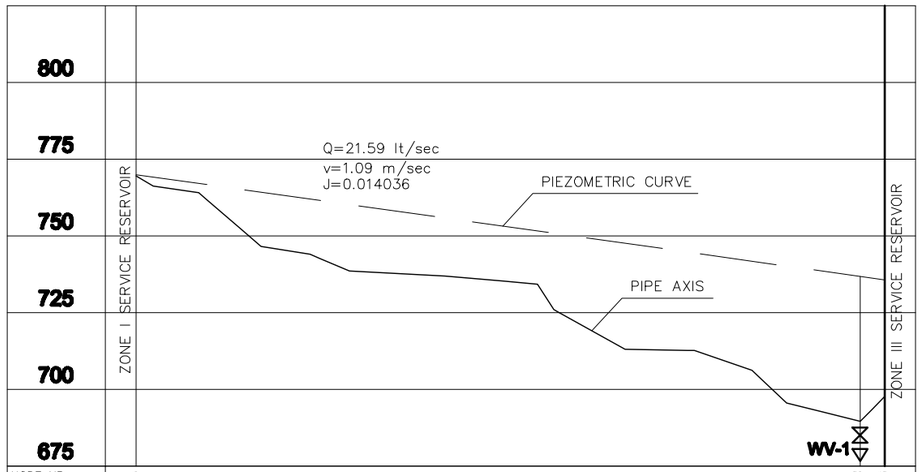


NODE NR	0	25	26
PIPE AXIS ELEVATION (m)	769.60	737.36	738.60
DISTANCE (m)	0+000.00	0+277.27	0+285.58
PIEZOMETRIC ELEVATION (m)	770.00	766.99	766.90
OPERATIONAL PRESSURE (m)	0.40	29.63	28.30
STATIC PRESSURE (m)	0.40	32.64	31.40
PIPE DIAMETER PIPE TYPE	DN200 HDPE-100 PIPE (PN6, OUTER DIAMETER=200mm, t=7.3mm)		

1/1000

1/10000

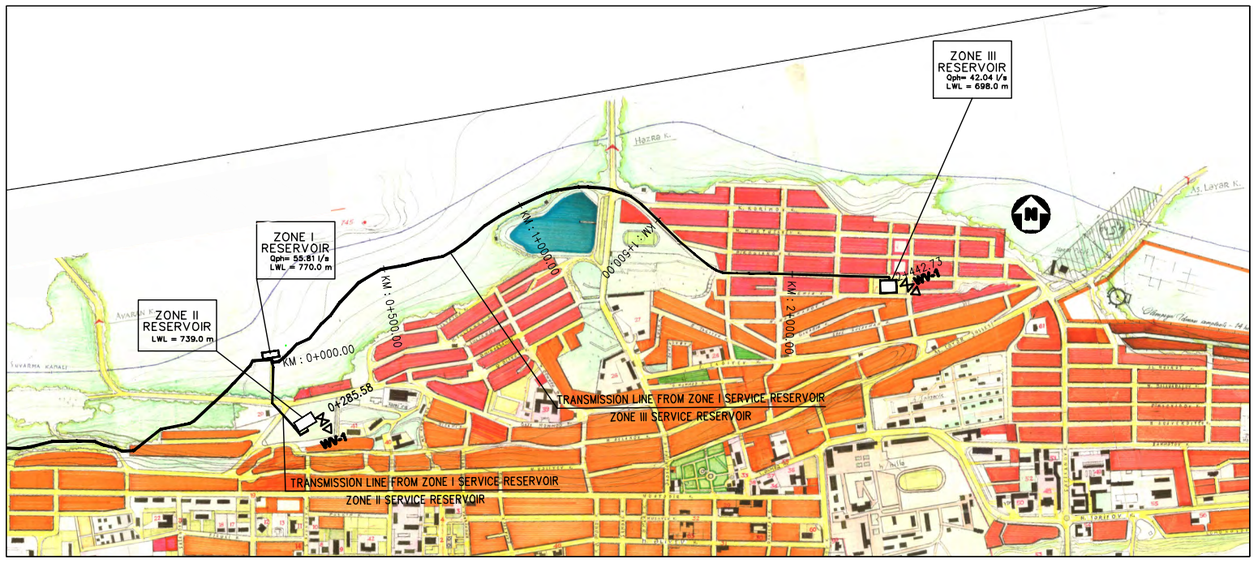
Gusar Transmission Lines From Left Bank
Zone I Service Reservoir to Zone III Service Reservoir



NODE NR	0	36	43
PIPE AXIS ELEVATION (m)	769.60	689.62	697.73
DISTANCE (m)	0+000.00	2+361.87	2+442.73
PIEZOMETRIC ELEVATION (m)	770.00	736.85	735.71
OPERATIONAL PRESSURE (m)	0.40	47.23	37.98
STATIC PRESSURE (m)	0.40	80.38	72.27
PIPE DIAMETER PIPE TYPE	DN180 HDPE-100 PIPE (PN10, OUTER DIAMETER=180mm, t=10.7mm)		

1/1000

1/10000



LEGEND

AIR VALVE — AV = AIR VALVE

WASHOUT VALVE — WV = WASHOUT VALVE

LINE VALVE — LV = LINE VALVE

ÖLÇEK / SCALE : 1/1000

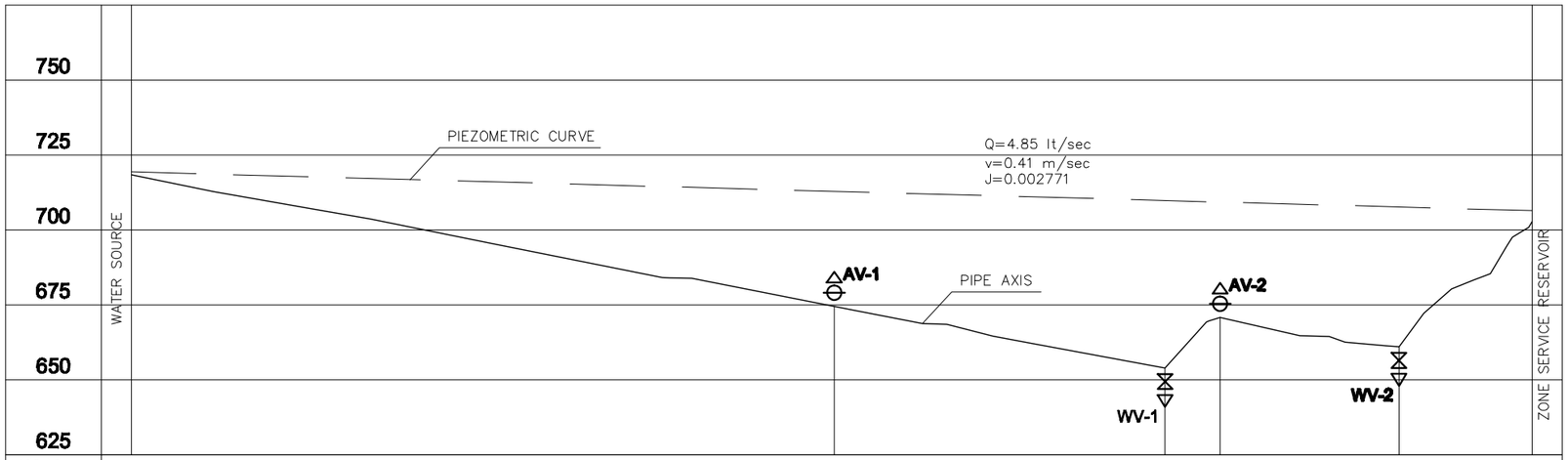
0 20 40 60 80 100m

ÖLÇEK / SCALE : 1/7500

0 150 300 450 600 750m

SPECIAL ASSISTANCE FOR PROJECT IMPLEMENTATION (SAPI) FOR THE PROVINCIAL CITIES WATER SUPPLY AND SEWERAGE PROJECT IN THE REPUBLIC OF AZERBAIJAN	AZERSU JOINT STOCK COMPANY, the Republic of Azerbaijan Japan International Cooperation Agency (JICA), Japan	Site : Gusar	Facility : Gusar Transmission Lines	Title : Plan & Hydraulic Profile (2/3)	Scale of Drawing : 1/10000 Original Size of Paper : A1	Category - City SU-GUS- Date March 2010	Facility Code - Number 09-01(02) Revision Number Rev.0

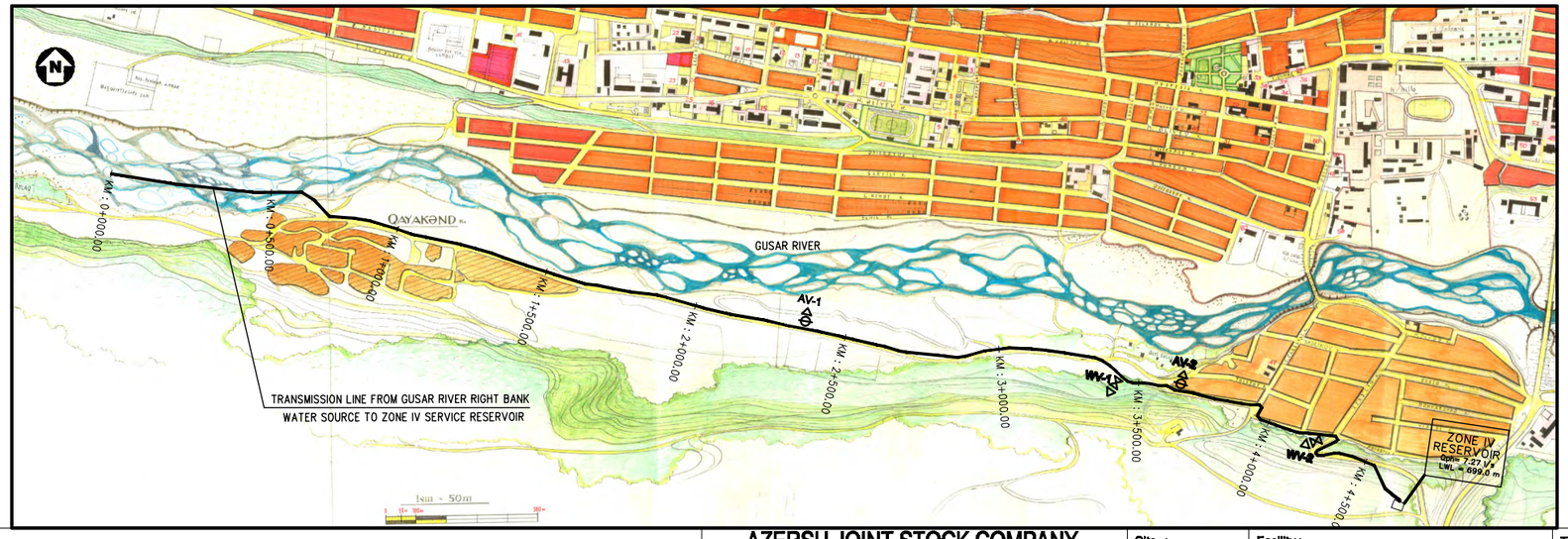
Gusar Transmission Lines From Rigth Bank
Water Source to Zone Service Reservoir



NODE NR	0	37	57	60	74	89
PIPE AXIS ELEVATION (m)	718.43	674.55	653.96	670.86	660.99	702.78
DISTANCE (m)	0+000.00	2+348.31	3+453.50	3+637.67	4+234.95	4+680.50
PIEZOMETRIC ELEVATION (m)	719.43	712.92	709.86	709.35	707.69	706.46
OPERATIONAL PRESSURE (m)	1.00	38.37	55.90	38.49	46.70	3.68
STATIC PRESSURE (m)	1.00	44.88	65.47	48.57	58.44	16.65
PIPE DIAMETER PIPE TYPE	DN140 HDPE-100 PIPE (PN10, OUTER DIAMETER=140mm, t=8.3mm)					

1/1000

1/10000



LEGEND

- AIR VALVE — AV = AIR VALVE
- WASHOUT VALVE — WV = WASHOUT VALVE
- LINE VALVE — LV = LINE VALVE

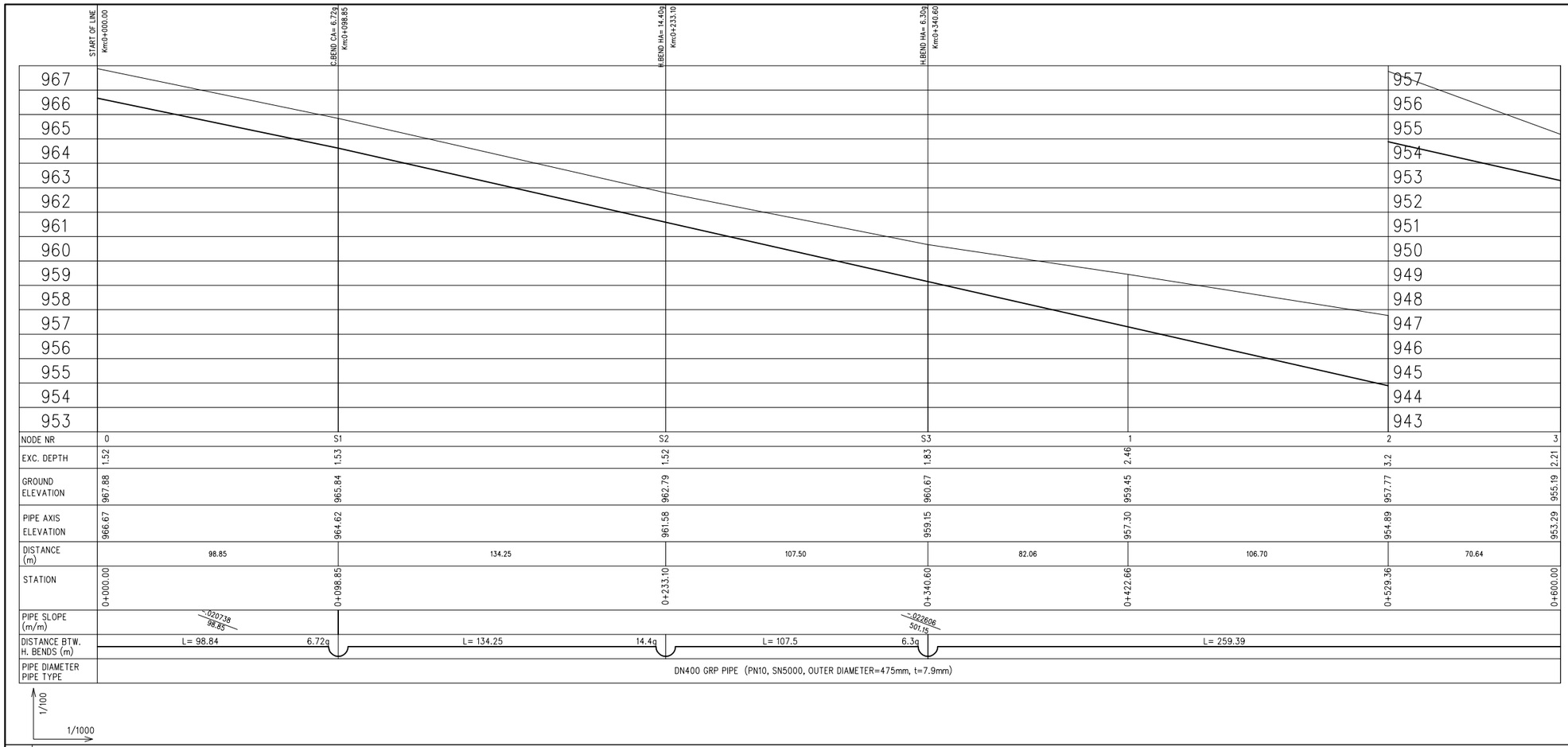
ÖLÇEK / SCALE : 1/1000

0 20 40 60 80 100m

ÖLÇEK / SCALE : 1/7500

0 150 300 450 600 750m

SPECIAL ASSISTANCE FOR PROJECT IMPLEMENTATION (SAPI) FOR THE PROVINCIAL CITIES WATER SUPPLY AND SEWERAGE PROJECT IN THE REPUBLIC OF AZERBAIJAN	AZERSU JOINT STOCK COMPANY, the Republic of Azerbaijan Japan International Cooperation Agency (JICA), Japan	Site : Gusar	Facility : Gusar Transmission Lines	Title : Plan & Hydraulic Profile (3/3)	Scale of Drawing : 1/10000 Original Size of Paper : A1	Category - City SU-GUS- Date March 2010	Facility Code - Number 09-01(03) Revision Number Rev.0

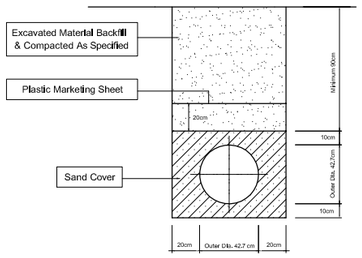


LEGEND

AIR VALVE
WASHOUT VALVE
LINE VALVE

V. BEND = VERTICAL BEND
H. BEND = HORIZONTAL BEND
C. BEND = COMBINED BEND
VA = VERTICAL ANGLE (in grad)
HA = HORIZONTAL ANGLE (in grad)
CA = COMBINED ANGLE (in grad)
AV = AIR VALVE
WV = WASHOUT VALVE
LV = LINE VALVE

TYPICAL TRENCH SECTION
400mm GRP

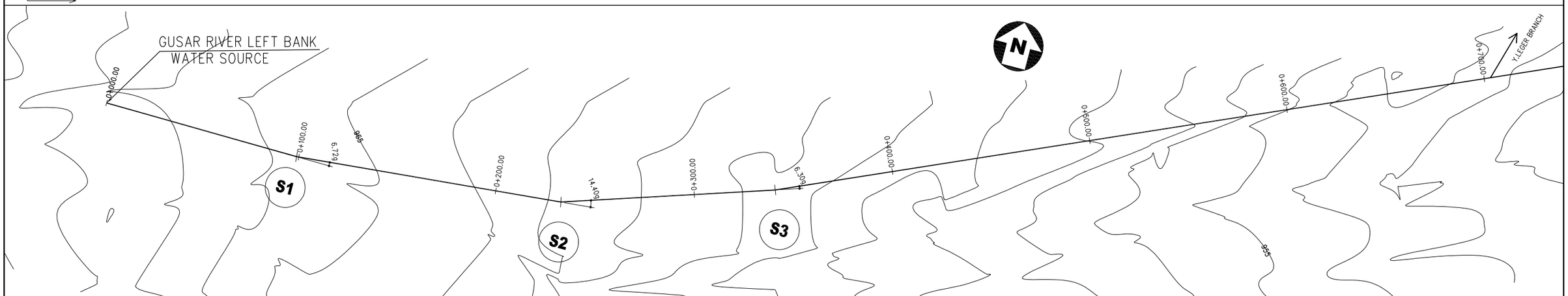


ÖLÇEK / SCALE : 1/100

0 2 4 6 8 10m

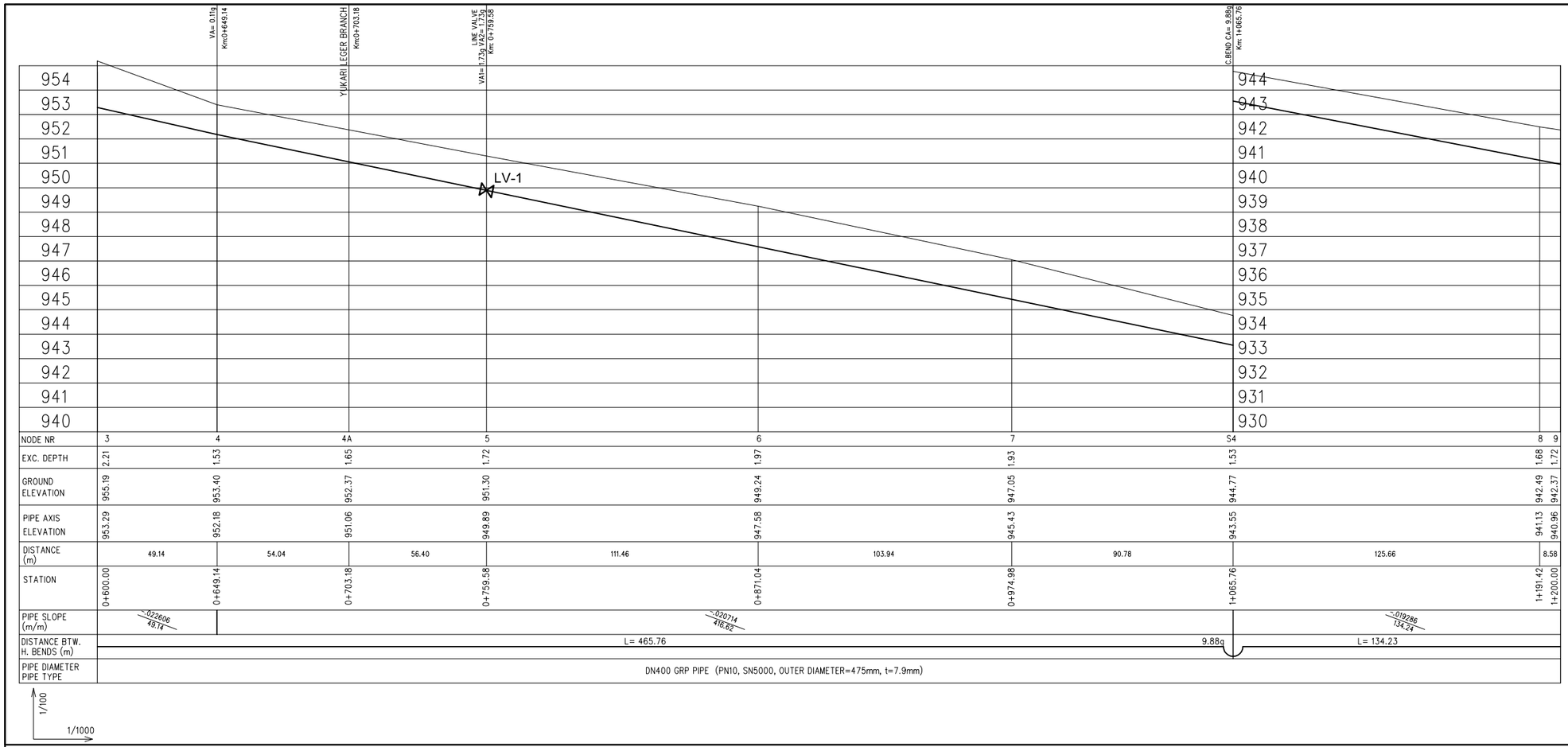
ÖLÇEK / SCALE : 1/1000

0 20 40 60 80 100m



NODE NR	COORDINATES		STATION (m)	DISTANCE (m)	ANGLE (grad)
	NORTH	EAST			
0	4583730.48	271612.57	0+000.00		
S1	4583728.67	271711.40	0+098.85	98.85	-6.72
S2	4583740.38	271845.14	0+233.10	134.25	-14.40
S3	4583773.53	271947.41	0+340.60	107.50	-6.30

SPECIAL ASSISTANCE FOR PROJECT IMPLEMENTATION (SAPI) FOR THE PROVINCIAL CITIES WATER SUPPLY AND SEWERAGE PROJECT IN THE REPUBLIC OF AZERBAIJAN	AZERSU JOINT STOCK COMPANY, the Republic of Azerbaijan Japan International Cooperation Agency (JICA), Japan	Site : Gusar	Facility : Plan & Profile of TL From Gusar River Left Bank Water Source to Zone I Serv. Res.	Title : Between KM: 0+000.00 - 0+600.00	Scale of Drawing : 1/1000 Original Size of Paper : A1	Category - City SU-GUS- Facility Code - Number 09-02(01) Date March 2010 Revision Number Rev.0



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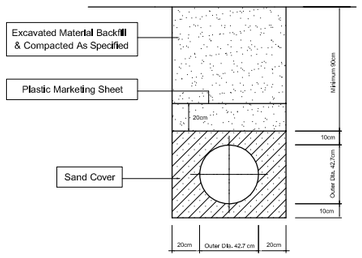
TYPICAL TRENCH SECTION
400mm GRP

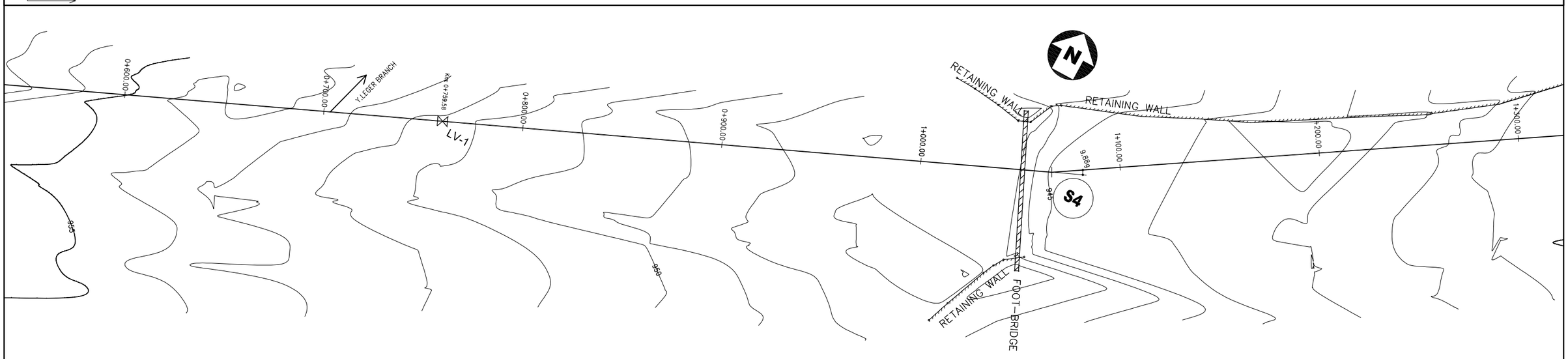


ÖLÇEK / SCALE : 1/100

0 2 4 6 8 10m

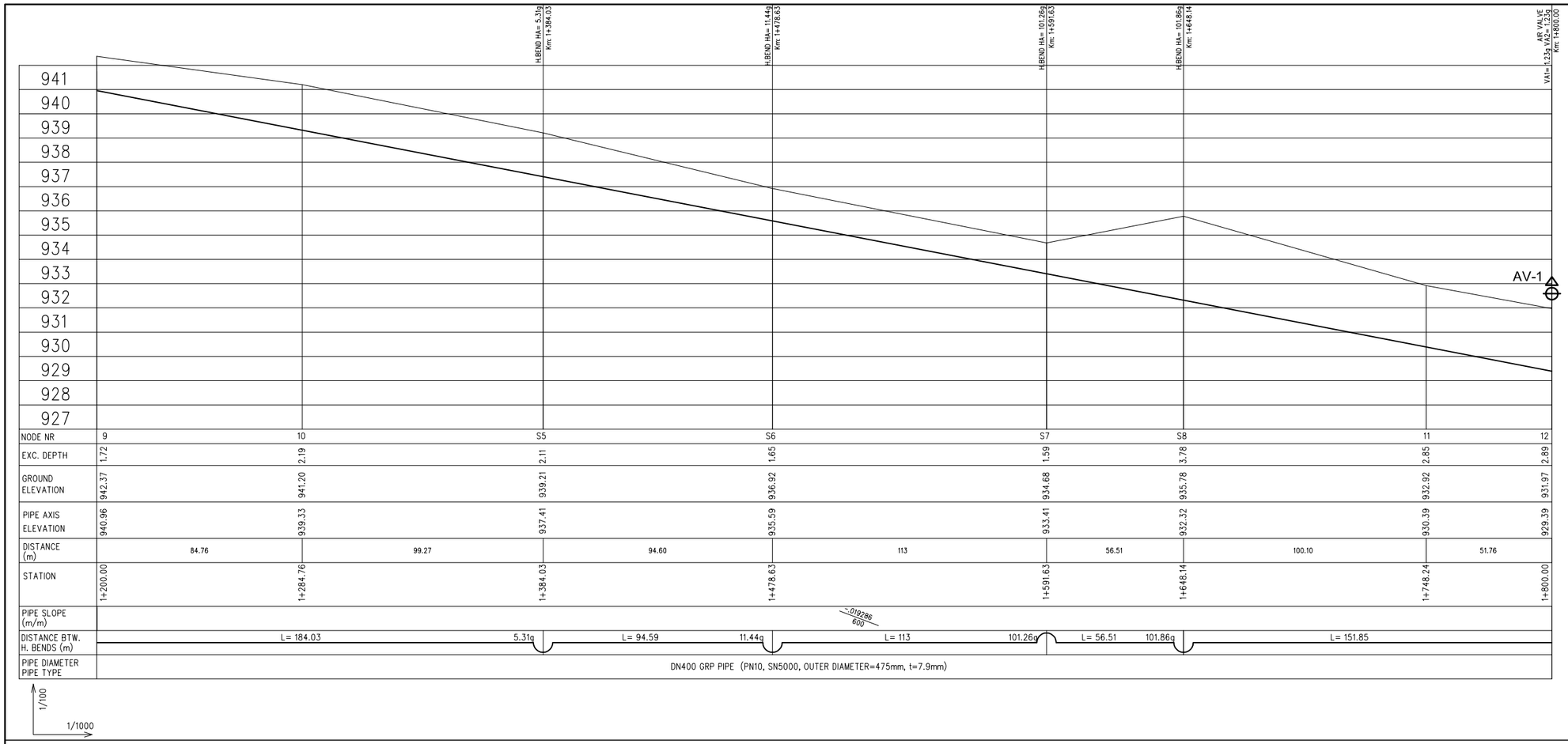
ÖLÇEK / SCALE : 1/1000

0 20 40 60 80 100m



NODE NR	COORDINATES		STATION (m)	DISTANCE (m)	ANGLE (grad)
	NORTH	EAST			
S4	4584064.22	272611.74	1+065.76	725.15	-9.88

SPECIAL ASSISTANCE FOR PROJECT IMPLEMENTATION (SAPI) FOR THE PROVINCIAL CITIES WATER SUPPLY AND SEWERAGE PROJECT IN THE REPUBLIC OF AZERBAIJAN	AZERSU JOINT STOCK COMPANY, the Republic of Azerbaijan Japan International Cooperation Agency (JICA), Japan	Site : Gusar	Facility : Plan & Profile of TL From Gusar River Left Bank Water Source to Zone I Serv. Res.	Title : Between KM: 0+600.00 - 1+200.00	Scale of Drawing : 1/1000 Original Size of Paper : A1	Category - City SU-GUS- Facility Code - Number 09-02(02) Date March 2010 Revision Number Rev.0



LEGEND

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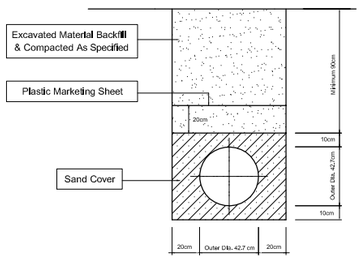
TYPICAL TRENCH SECTION
400mm GRP

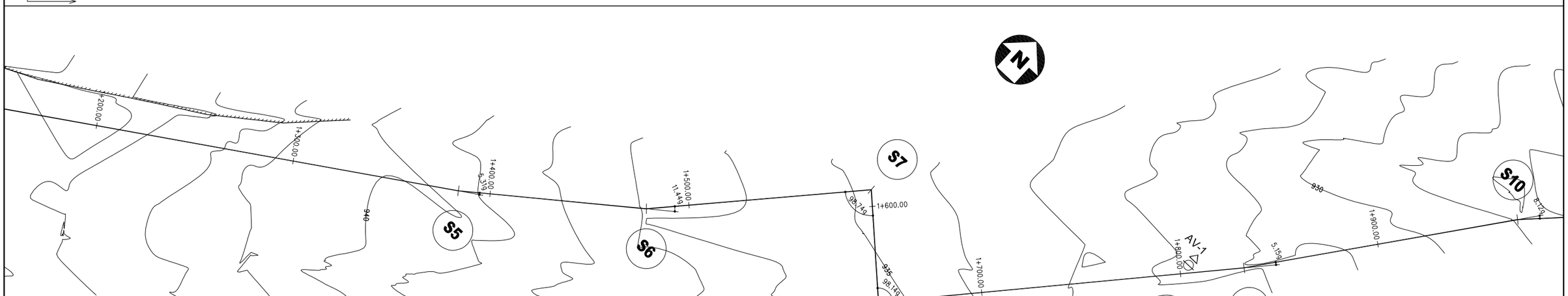


ÖLÇEK / SCALE : 1/100

0 2 4 6 8 10m

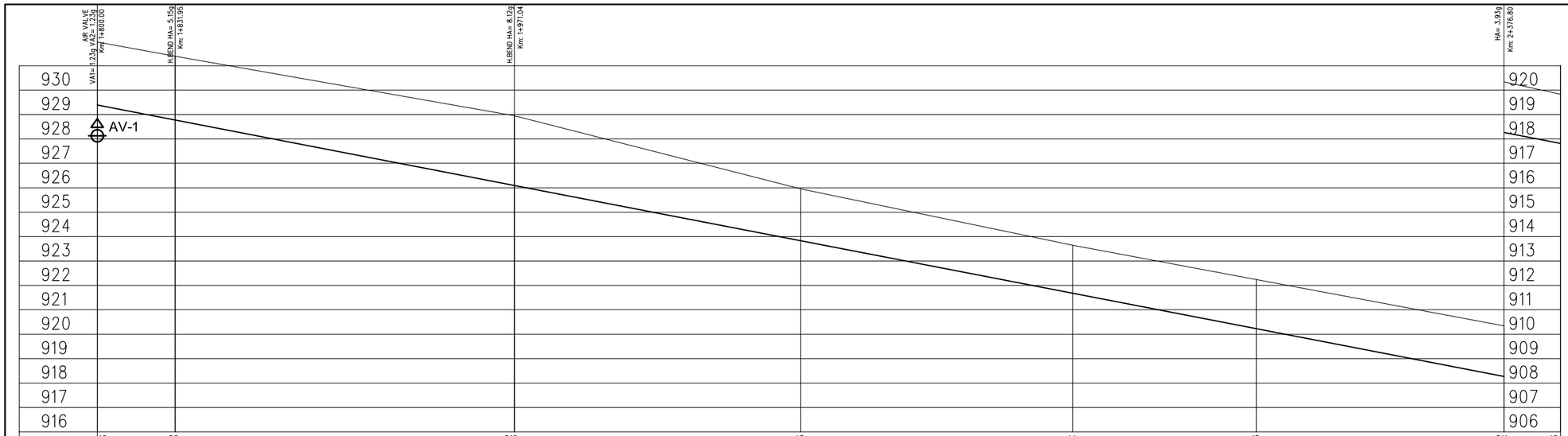
ÖLÇEK / SCALE : 1/1000

0 20 40 60 80 100m



NODE NR	COORDINATES		STATION (m)	DISTANCE (m)	ANGLE (grad)
	NORTH	EAST			
S5	4584235.35	272880.10	1+384.03	318.27	-5.31
S6	4584292.68	272955.35	1+478.63	94.60	-11.44
S7	4584376.12	273031.55	1+591.63	113.00	101.26
S8	4584337.19	273072.51	1+648.14	56.51	-101.86

SPECIAL ASSISTANCE FOR PROJECT IMPLEMENTATION (SAPI) FOR THE PROVINCIAL CITIES WATER SUPPLY AND SEWERAGE PROJECT IN THE REPUBLIC OF AZERBAIJAN	AZERSU JOINT STOCK COMPANY, the Republic of Azerbaijan Japan International Cooperation Agency (JICA), Japan	Site : Gusar	Facility : Plan & Profile of TL From Gusar River Left Bank Water Source to Zone I Serv. Res.	Title : Between KM: 1+200.00 - 1+800.00	Scale of Drawing : 1/1000 Original Size of Paper : A1	Category - City SU-GUS- Facility Code - Number 09-02(03) Date March 2010 Revision Number Rev.0



NODE NR	12		S9			S10			13		14		15		S11	16
EXC. DEPTH	2.89		2.93			3.17			2.44		2.28		2.33		2.39	2.32
GROUND ELEVATION	931.97		931.39			928.95			925.95		923.64		922.24		920.34	919.83
PIPE AXIS ELEVATION	929.39		928.77			926.09			923.83		921.68		920.22		918.27	917.82
DISTANCE (m)		31.95			139.09			117.38		111.64		75.26		101.48		23.20
STATION	1+800.00		1+831.95			1+971.04			2+088.42		2+200.06		2+275.32		2+376.80	2+400.00
PIPE SLOPE (m/m)										0.019286 600						
DISTANCE BTW. H. BENDS (m)	L= 31.94	5.15g			L= 139.09		8.12g				L= 405.76			3.93g		L= 23.19
PIPE DIAMETER PIPE TYPE	DN400 GRP PIPE (PN10, SN5000, OUTER DIAMETER=475mm, t=7.9mm)															

1/100

1/1000

LEGEND

AIR VALVE

WASHOUT VALVE

LINE VALVE

V. BEND = VERTICAL BEND
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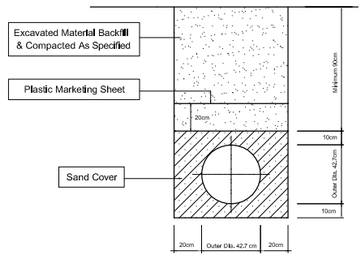
TYPICAL TRENCH SECTION
400mm GRP

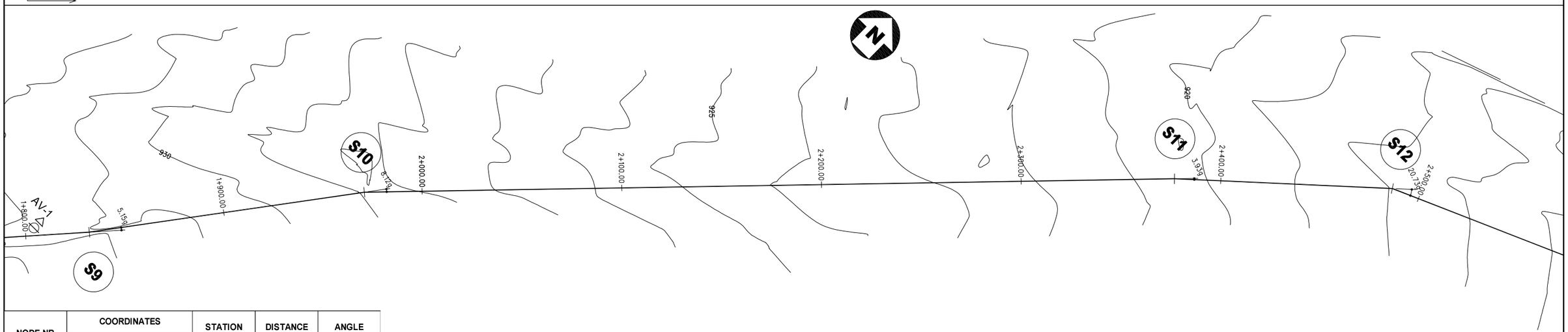


ÖLÇEK / SCALE : 1/100

0 2 4 6 8 10m

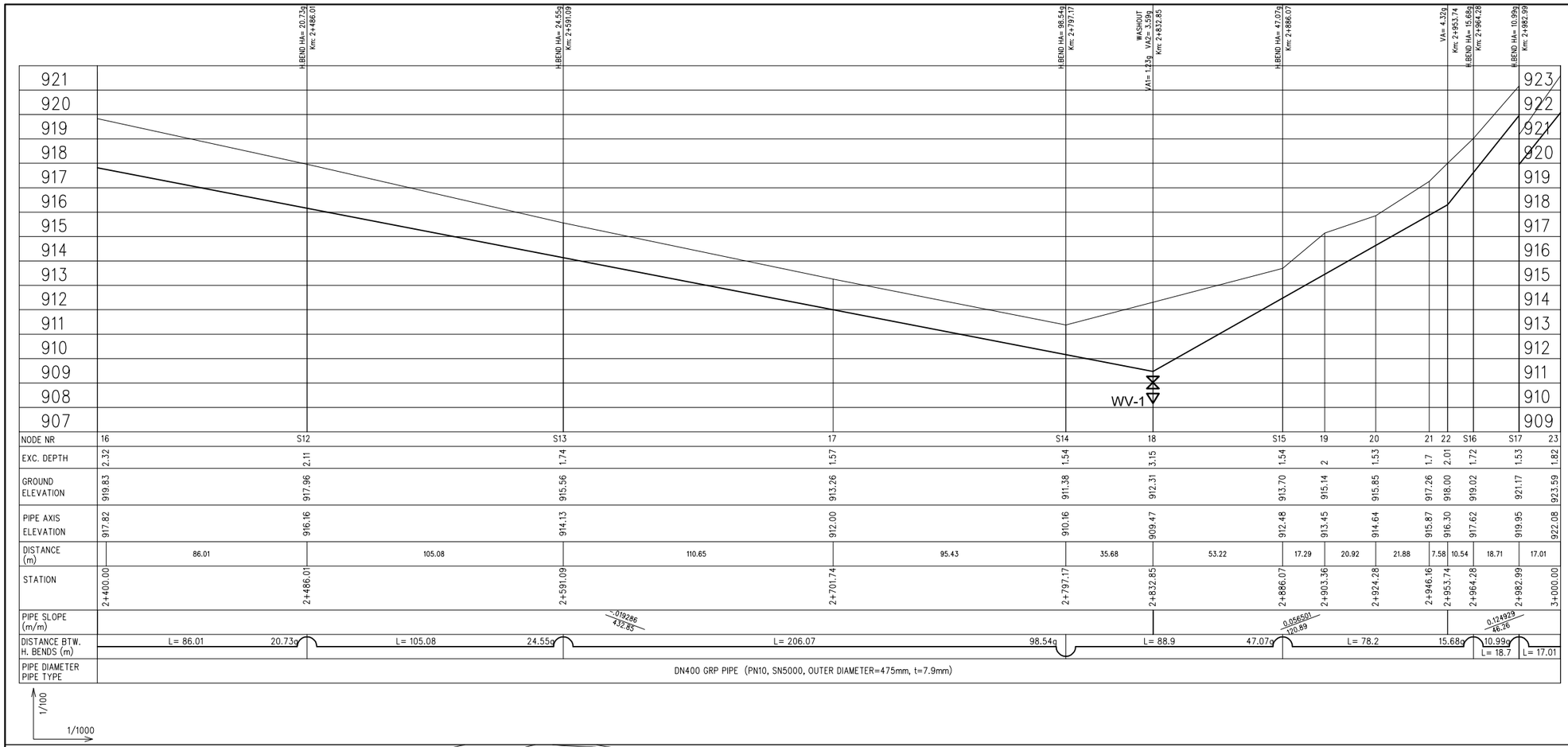
ÖLÇEK / SCALE : 1/1000

0 20 40 60 80 100m



NODE NR	COORDINATES		STATION (m)	DISTANCE (m)	ANGLE (grad)
	NORTH	EAST			
S9	4584474.08	273195.18	1+831.95	183.81	-5.15
S10	4584584.83	273279.33	1+971.04	139.09	8.12
S11	4584874.06	273563.91	2+376.80	405.76	3.93

SPECIAL ASSISTANCE FOR PROJECT IMPLEMENTATION (SAPI) FOR THE PROVINCIAL CITIES WATER SUPPLY AND SEWERAGE PROJECT IN THE REPUBLIC OF AZERBAIJAN	AZERSU JOINT STOCK COMPANY, the Republic of Azerbaijan Japan International Cooperation Agency (JICA), Japan	Site : Gusar	Facility : Plan & Profile of TL From Gusar River Left Bank Water Source to Zone I Serv. Res.	Title : Between KM: 1+800.00 - 2+400.00	Scale of Drawing : 1/1000 Original Size of Paper : A1	Category - City SU-GUS- Date March 2010	Facility Code - Number 09-02(04) Revision Number Rev.0



LEGEND

- AIR VALVE
- WASHOUT VALVE
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V. BEND = VERTICAL BEND
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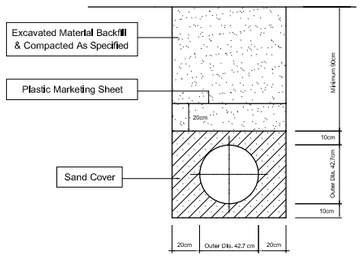
TYPICAL TRENCH SECTION
400mm GRP



ÖLÇEK / SCALE : 1/100

0 2 4 6 8 10m

ÖLÇEK / SCALE : 1/1000

0 20 40 60 80 100m

NODE NR	COORDINATES		STATION (m)	DISTANCE (m)	ANGLE (grad)
	NORTH	EAST			
S12	4584947.04	273645.16	2+486.01	109.21	20.73
S13	4584988.55	273741.68	2+591.09	105.07	24.55
S14	4584992.78	273947.72	2+797.17	206.08	-98.54
S15	4585081.68	273947.94	2+886.07	88.90	47.07
S16	4585139.34	274000.78	2+964.28	78.21	15.68
S17	4585149.63	274016.41	2+982.99	18.71	10.99

SPECIAL ASSISTANCE FOR PROJECT IMPLEMENTATION (SAPI) FOR THE PROVINCIAL CITIES WATER SUPPLY AND SEWERAGE PROJECT IN THE REPUBLIC OF AZERBAIJAN	AZERSU JOINT STOCK COMPANY, the Republic of Azerbaijan Japan International Cooperation Agency (JICA), Japan	Site : Gusar	Facility : Plan & Profile of TL From Gusar River Left Bank Water Source to Zone I Serv. Res.	Title : Between KM: 2+400.00 - 3+000.00	Scale of Drawing : 1/1000 Original Size of Paper : A1	Category - City SU-GUS- Date March 2010	Facility Code - Number 09-02(05) Revision Number Rev.0