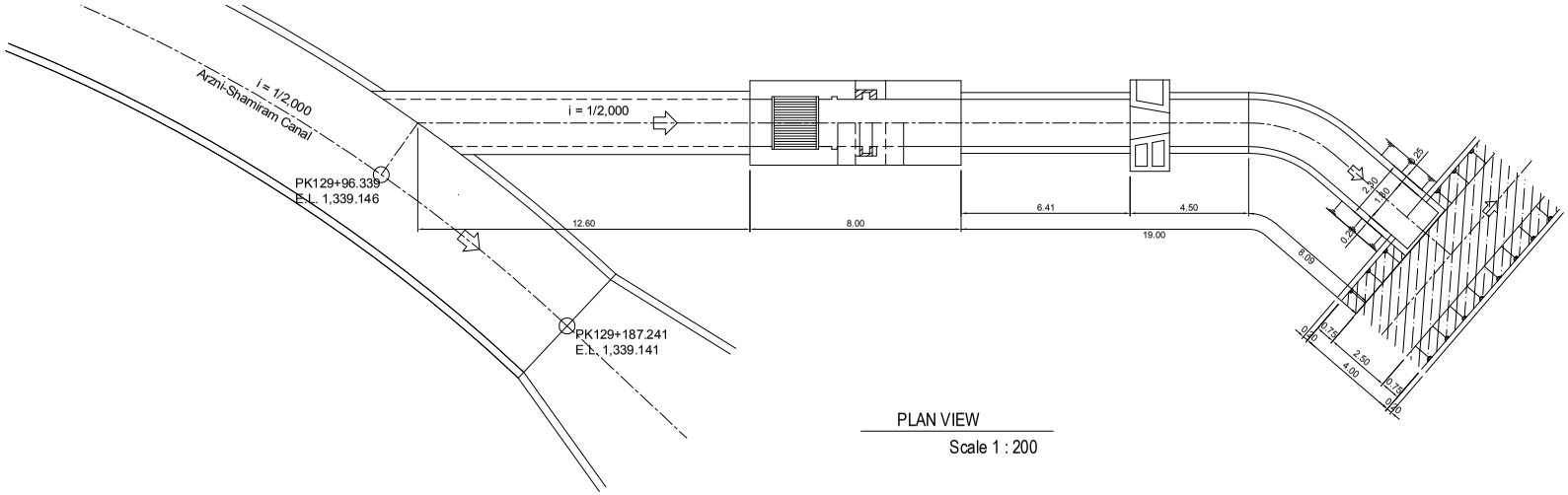
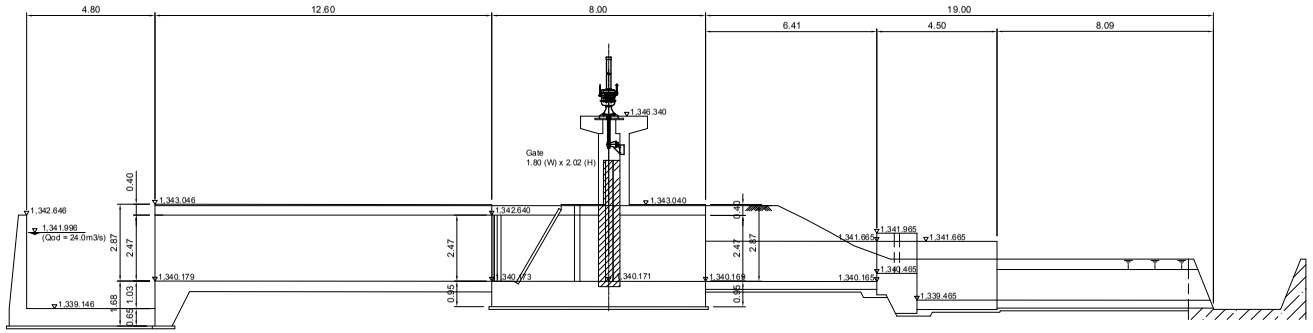


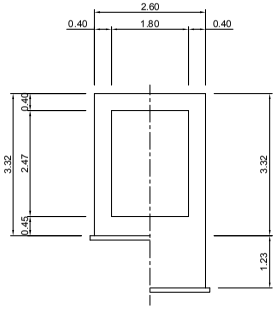
PLAN VIEW

Scale 1 : 200



LONGITUDINAL SECTION

Scale 1 : 200

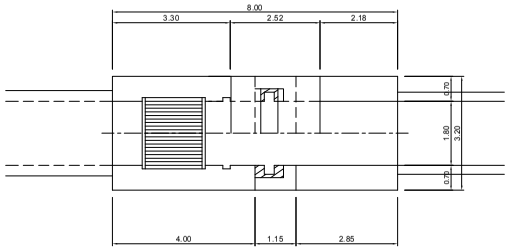


	Design Parameter		Mar 1st	2nd	3rd	Apr 1st	2nd	3rd	May 1st	2nd	3rd
1	Design Discharge (m^3/sec)	Qod	-	-	-	-	0.28	1.16	1.33	1.00	0.39
2	Roughness Coefficient	n	-	-	-	-	0.015	0.015	0.015	0.015	0.015
3	Slope of Canal	i	-	-	-	-	0.005	0.005	0.005	0.005	0.005
4	Design Water Depth (m)	D	-	-	-	-	0.289	0.776	0.859	0.695	0.361
5	Area of Water Flow (m^2)	A	-	-	-	-	0.52	1.40	1.55	1.25	0.65
6	Hydraulic Radius	R	-	-	-	-	0.22	0.42	0.44	0.39	0.26
7	Velocity of Water Flow (m/sec)	v	-	-	-	-	0.54	0.83	0.86	0.80	0.60

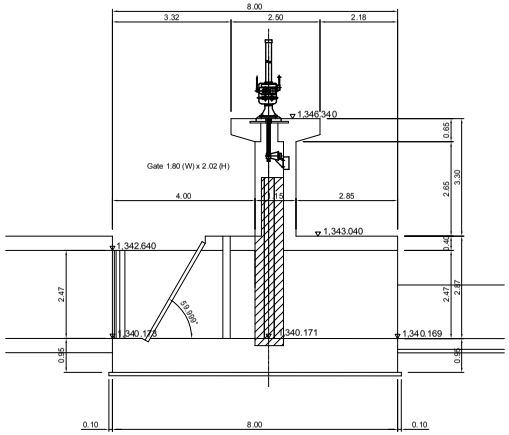
STANDARD CROSS SECTION OF FEEDER CANAL FOR ARZNI-SHAMIRAM BRANCH CANAL

Scale 1 : 125

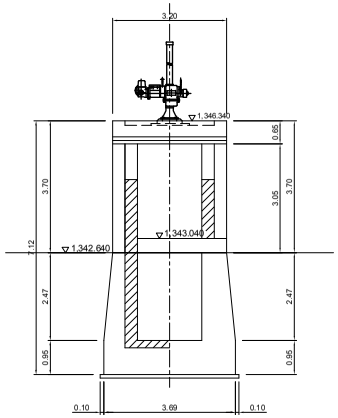
Project: Preparatory Survey for Yeghvard Irrigation System Improvement Project		Drawing No:	Drawn by: Sanyu Consultants Inc.
Drawing Title: Feeder Canal System 1, Diversion Works for Arzni-Shamiram Branch Canal		Scale: Indicated	Checked by:
Revision	Initials	All dimension in: Meter	Approved by:



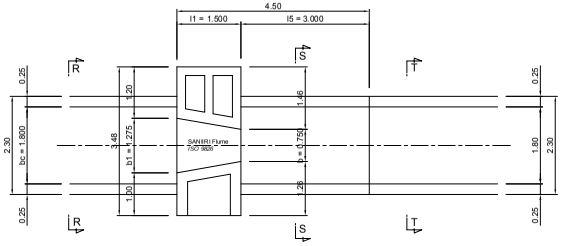
INLET WORKS FOR ARZNI-SHAMIRAM BRANCH CANAL
PLAN VIEW S = 1 : 150



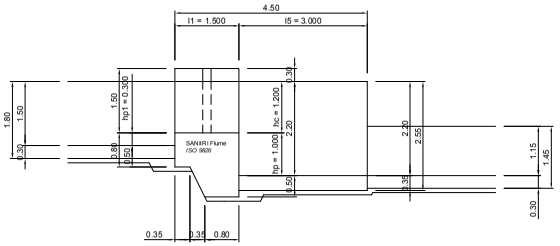
INLET WORKS FOR ARZNI-SHAMIRAM BRANCH CANAL
LONGITUDINAL SECTION S = 1 : 150



INLET WORKS: FRONT VIEW S = 1 : 150



WATER MEASUREMENT FACILITY: PLAN VIEW
S = 1 : 125

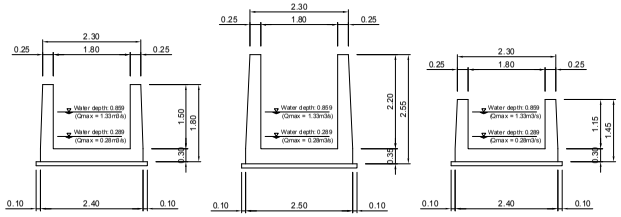


WATER MEASUREMENT FACILITY: LONGITUDINAL SECTION
S = 1 : 125

WATER MEASUREMENT FACILITY: DIMENSIONS

SANIRI Flume No.	b	$l_o = l_1$	b_1	hp	hc	l_5	Head range (m)		Free-flow discharge Q (m^3/s)	
	m	m	m	m	m	m	min.	max.	min.	max.
1	2	3	4	5	6	7	8	9	10	11
1	0.30	0.60	0.510	0.40	0.70	1.80	0.14	0.55	0.03	0.25
2	0.40	0.80	0.680	0.50	0.80	1.80	0.14	0.60	0.04	0.40
3	0.50	1.00	0.850	0.65	0.90	2.00	0.15	0.70	0.06	0.63
4	0.60	1.20	1.020	0.80	1.00	2.50	0.20	0.85	0.10	1.00
5	0.75	1.50	1.275	1.00	1.20	3.00	0.22	1.00	0.16	1.60
6	1.00	2.00	1.700	1.20	1.30	3.00	0.24	1.10	0.25	2.50

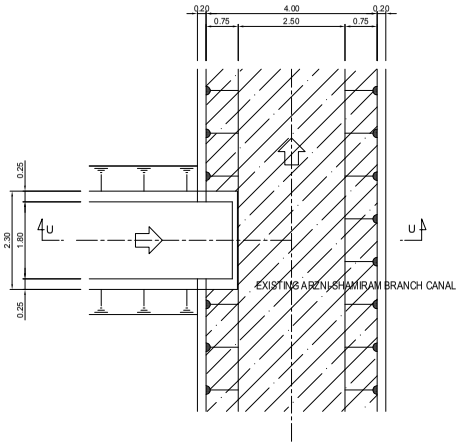
SANIIRI Flumes ISO 9826: 1992(E)



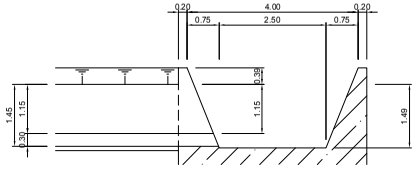
SECTION R - R
S = 1 :125

SECTION S - S

SECTION T - T



OUTLET STRUCTURE: PLAN VIEW S = 1 : 125



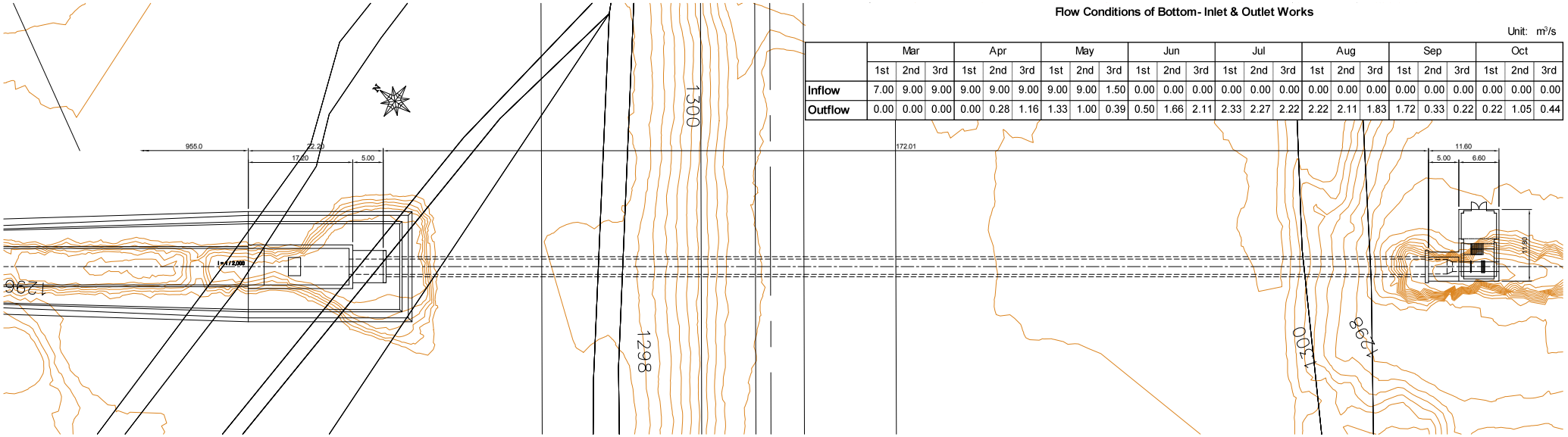
OUTLET STRUCTURE: SECTION U - U S = 1 : 125

Project: Preparatory Survey for Yeghvard Irrigation System Improvement Project		Drawing No:	Drawn by: Sanyu Consultants Inc.
Drawing Title: Feeder Canal System 1, Structural Drawing of the Diversion Works for the Arzni-Shamiram Branch Canal		Scale: Indicated	Checked by:
Revision	Initials	All dimension in: Meter	Approved by:

Flow Conditions of Bottom- Inlet & Outlet Works

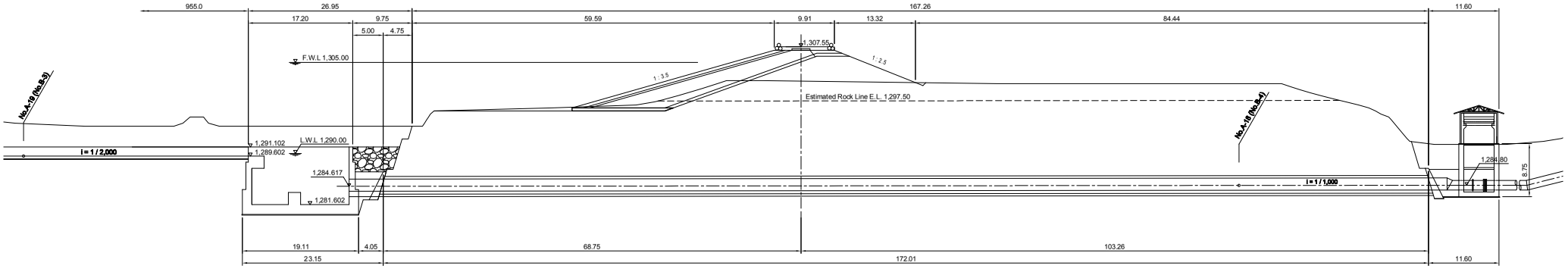
Unit: m^3/s

	Mar			Apr			May			Jun			Jul			Aug			Sep			Oct		
	1st	2nd	3rd	1st	2nd	3rd	1st	2nd	3rd	1st	2nd	3rd	1st	2nd	3rd	1st	2nd	3rd	1st	2nd	3rd	1st	2nd	3rd
Inflow	7.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Outflow	0.00	0.00	0.00	0.00	0.28	1.16	1.33	1.00	0.39	0.50	1.66	2.11	2.33	2.27	2.22	2.22	2.11	1.83	1.72	0.33	0.22	0.22	1.05	0.44



PLAN VIEW

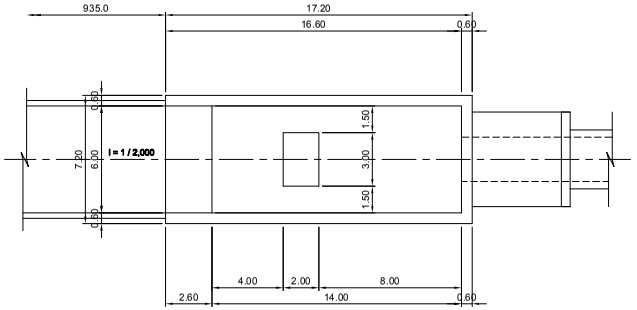
Free Scale



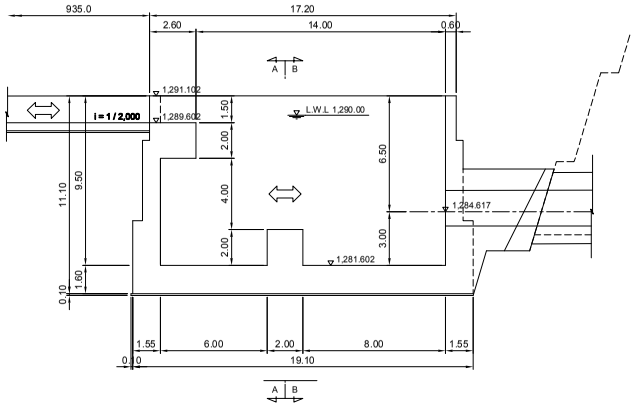
SECTION

Free Scale

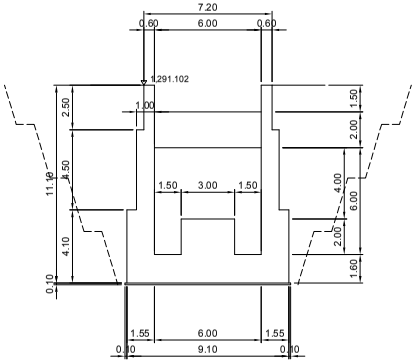
Project: Preparatory Survey for Yeghvard Irrigation System Improvement Project		Drawing No:	Drawn by: Sanyu Consultants Inc.
Drawing Title: Feeder Canal System 1, Bottom Inlet- and Outlet- Works under the Dike No.2		Scale: Free Scale	Checked by:
Revision	Initials	All dimension in: Meter	Approved by:



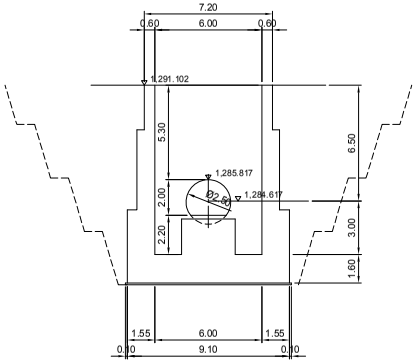
INLET & OUTLET WORKS OF FEEDER 1 CANAL SYSTEM
PLAN VIEW S = 1 : 300



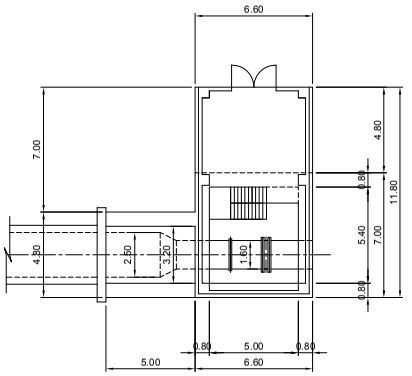
INLET & OUTLET WORKS OF FEEDER 1 CANAL SYSTEM
SECTION VIEW S = 1 : 300



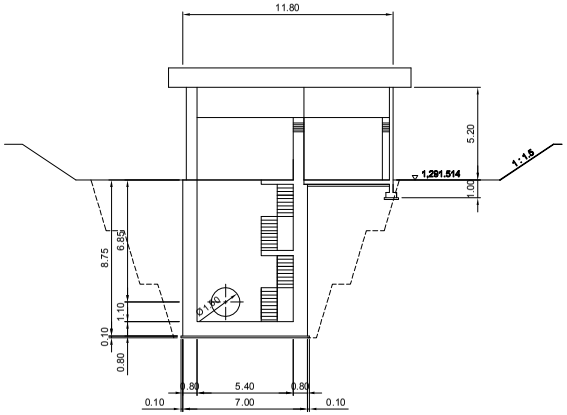
SECTION A - A
S = 1 : 300



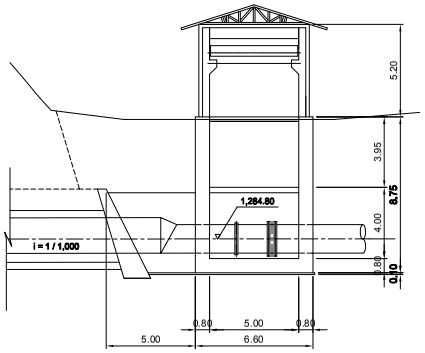
SECTION B - B
S = 1 : 300



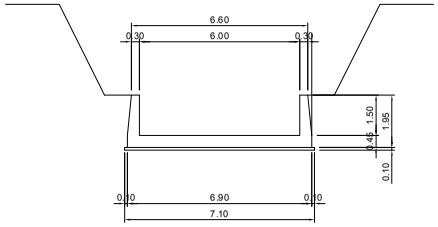
OPERATION HOUSE: PLAN VIEW S = 1 : 300



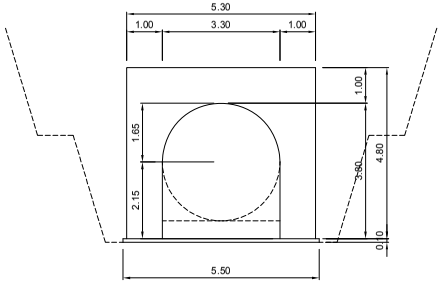
OPERATION HOUSE: FRONT VIEW S = 1 : 300



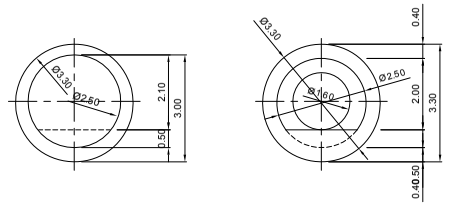
OPERATION HOUSE: SECTION VIEW S = 1 : 300



CANAL IN THE RESERVOIR: SECTION VIEW S = 1 : 200

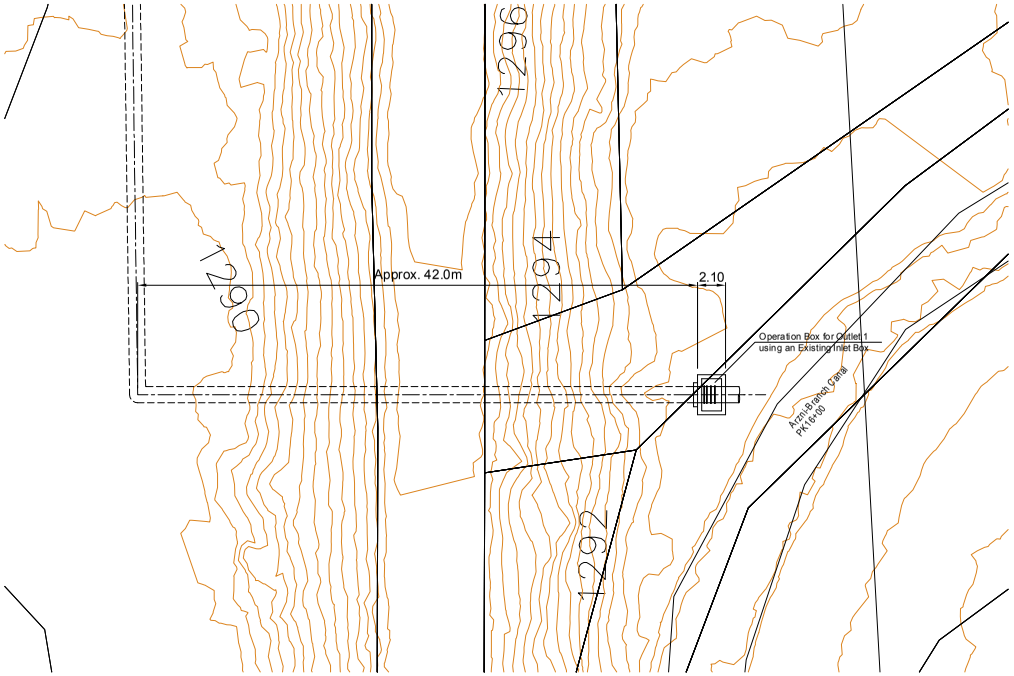


UNDERGROUND WORKS: TUNNEL MOUTH S = 1 : 150

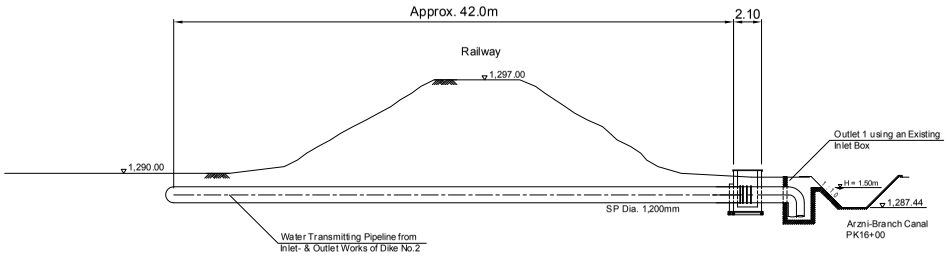


UNDERGROUND WORKS: TUNNEL S = 1 : 150

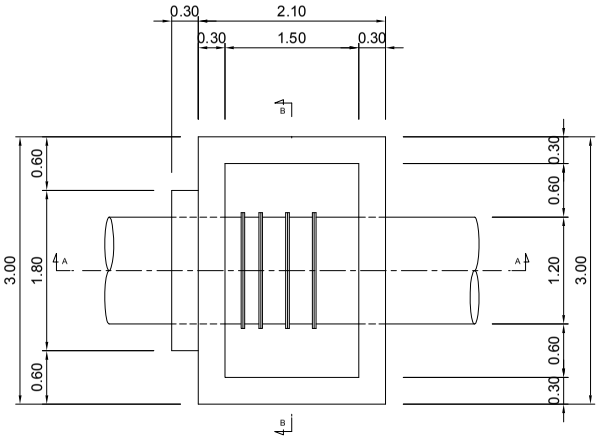
Project: Preparatory Survey for Yeghvard Irrigation System Improvement Project		Drawing No:	Drawn by: Sanyu Consultants Inc.
Drawing Title: Feeder Canal System 1, Structural Drawing of the Bottom Inlet- and Outlet- Works		Scale: Indicated	Checked by:
Revision	Initials	All dimension in: Meter	Approved by:



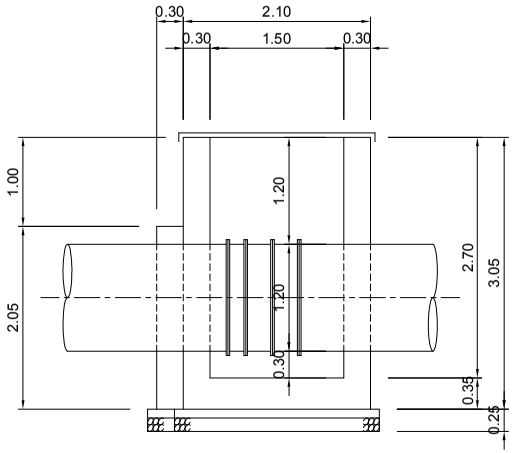
OUTLET 1 OF THE FEEDER CANAL 1 SYSTEM: PLAN VIEW
PLAN VIEW S = 1 : 400



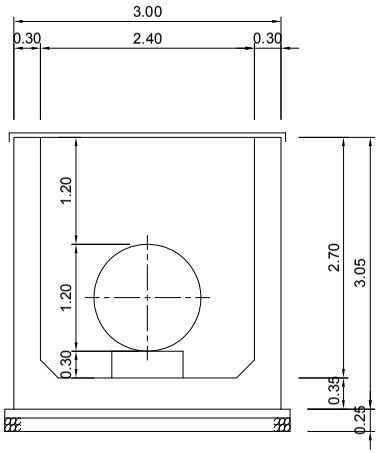
OUTLET 1 OF THE FEEDER CANAL 1 SYSTEM: SECTION
SECTION VIEW S = 1 : 400



OPERATION BOX: PLAN VIEW S = 1 : 60

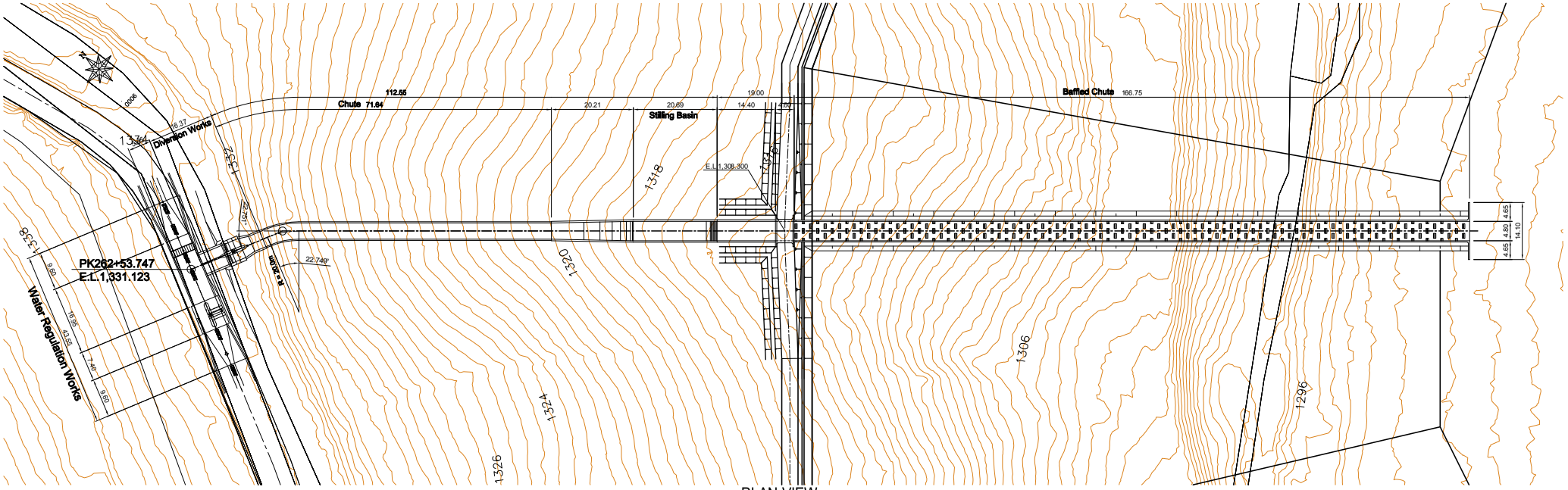


SECTION A - A S = 1 : 60



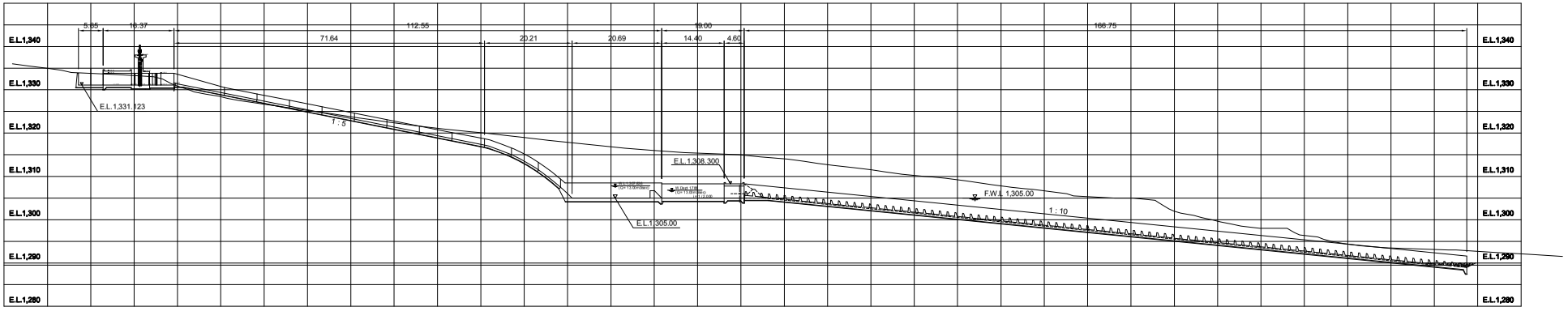
SECTION B - B S = 1 : 60

Project: Preparatory Survey for Yeghvard Irrigation System Improvement Project		Drawing No:	Drawn by: Sanyu Consultants Inc.
Drawing Title: Feeder Canal System 1, Structural Drawing of the Outlet 1		Scale: Indicated	Checked by:
Revision	Initials	All dimension in: Meter	Approved by:



PLAN VIEW

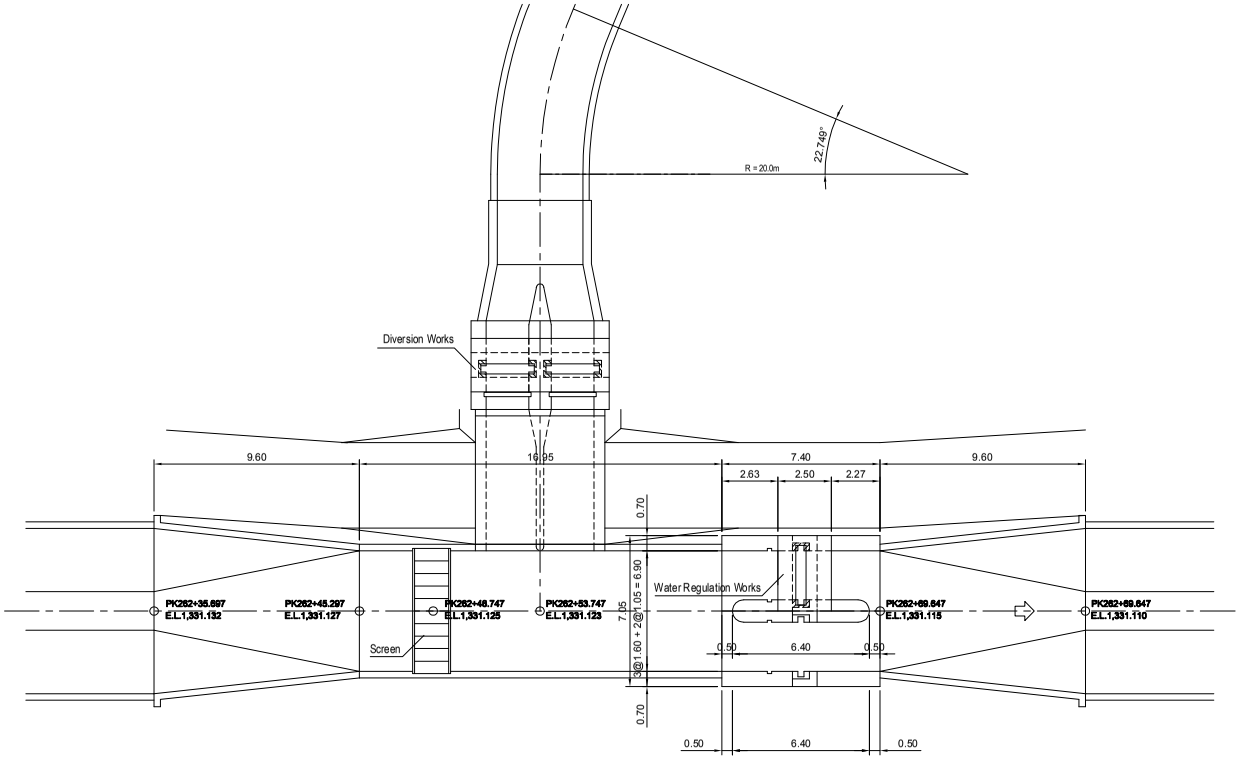
S = 1 : 1,000



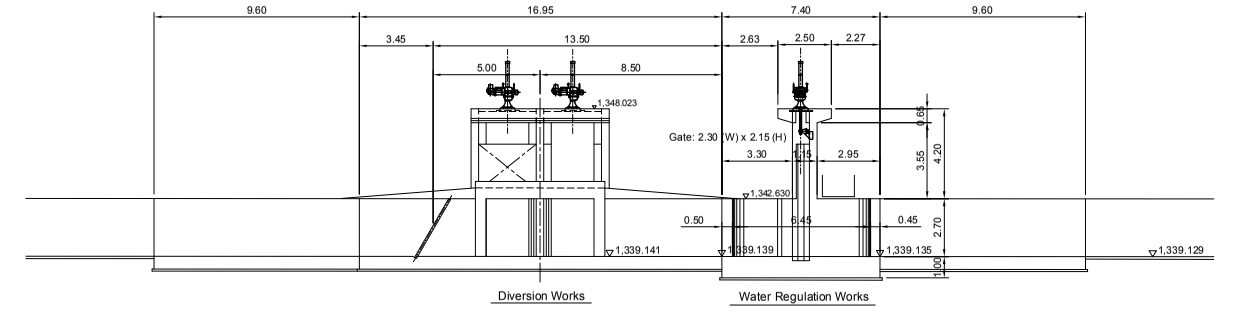
LONGITUDINAL SECTION

S = 1 : 1,000

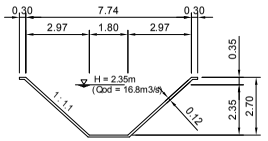
Project: Preparatory Survey for Yeghvard Irrigation System Improvement Project		Drawing No:	Drawn by: Sanyu Consultants Inc.
Drawing Title: Feeder Canal System 2, General Layout of the Canal		Scale: Indicated	Checked by:
Revision	Initials	All dimension in: Meter	Approved by:



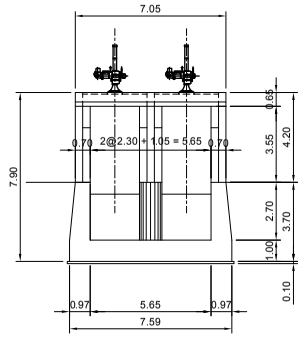
WATER REGULATION WORKS FOR FEEDER CANAL SYSTEM 2
PLAN VIEW S = 1 : 250



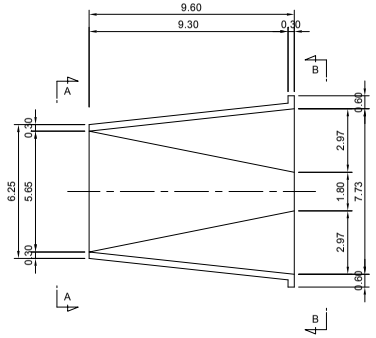
WATER REGULATION WORS FOR FEEDER CANAL SYSTEM 2
LONGITUDINAL SECTION S = 1 : 250



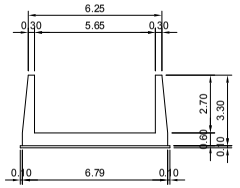
STANDARD CROSS SECTION S = 1 : 250



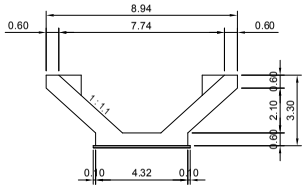
WATER REGULATION WORKS S = 1 : 250



UPSTREAM AND DOWNSTREAM TRANSITION S = 1 : 250

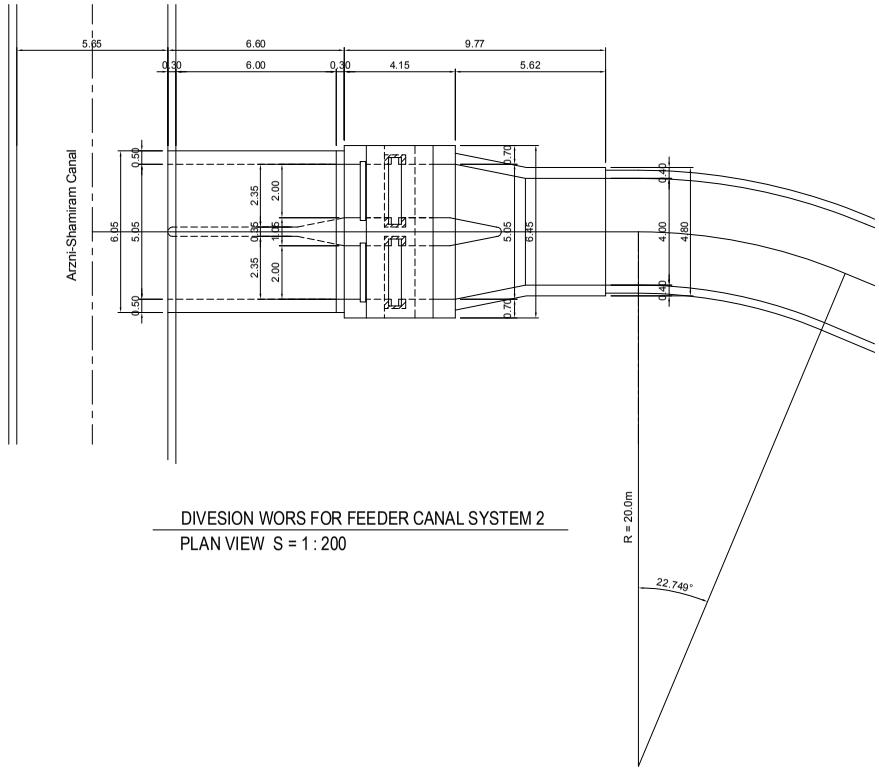


SECTION A - A

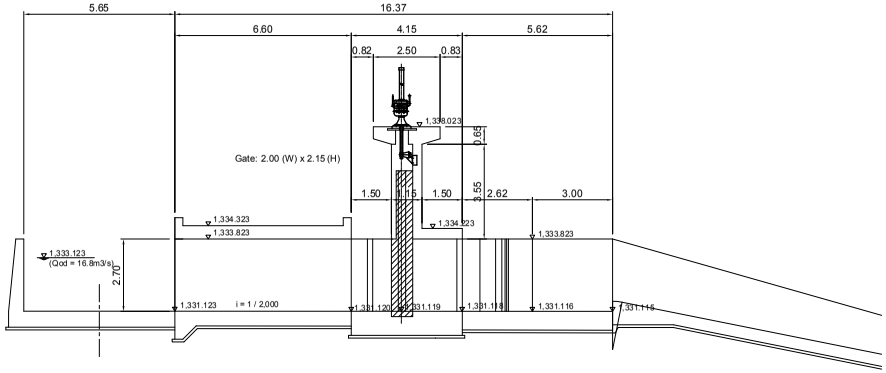


SECTION B - B

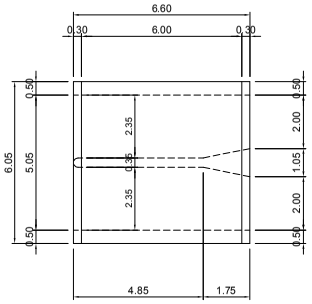
Project: Preparatory Survey for Yeghvard Irrigation System Improvement Project		Drawing No:	Drawn by: Sanyu Consultants Inc.
Drawing Title: Feeder Canal System 2, Structural Drawing of Water Regulation Works		Scale: Indicated	Checked by:
Revision	Initials	All dimension in: Meter	Approved by:



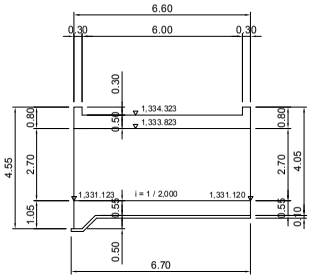
DIVESION WORS FOR FEEDER CANAL SYSTEM 2
PLAN VIEW S = 1 : 200



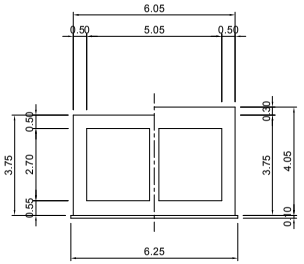
DIVESION WORS FOR FEEDER CANAL SYSTEM 2
LONGITUDINAL SECTION S = 1 : 200



PLAN VIEW

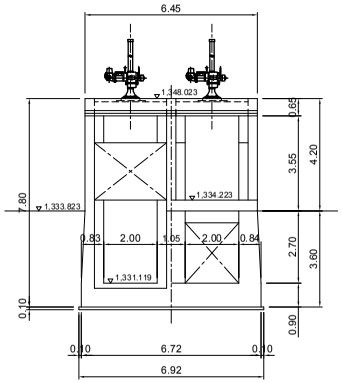


LONGITUDINAL SECTION

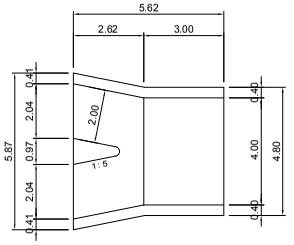


FRONT VIEW

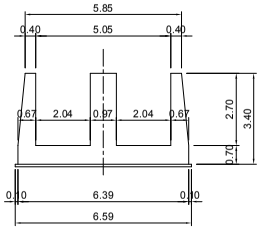
INLET CANAL OF DIVERSION WORKS S = 1 : 200



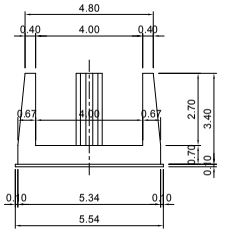
DIVERSION WORKS S = 1 : 200



PLAN VIEW



SECTION A - A

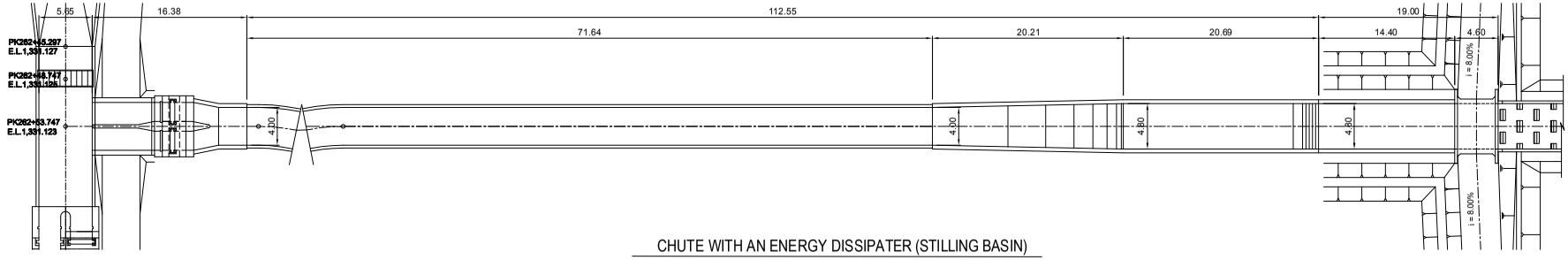


SECTION B - B

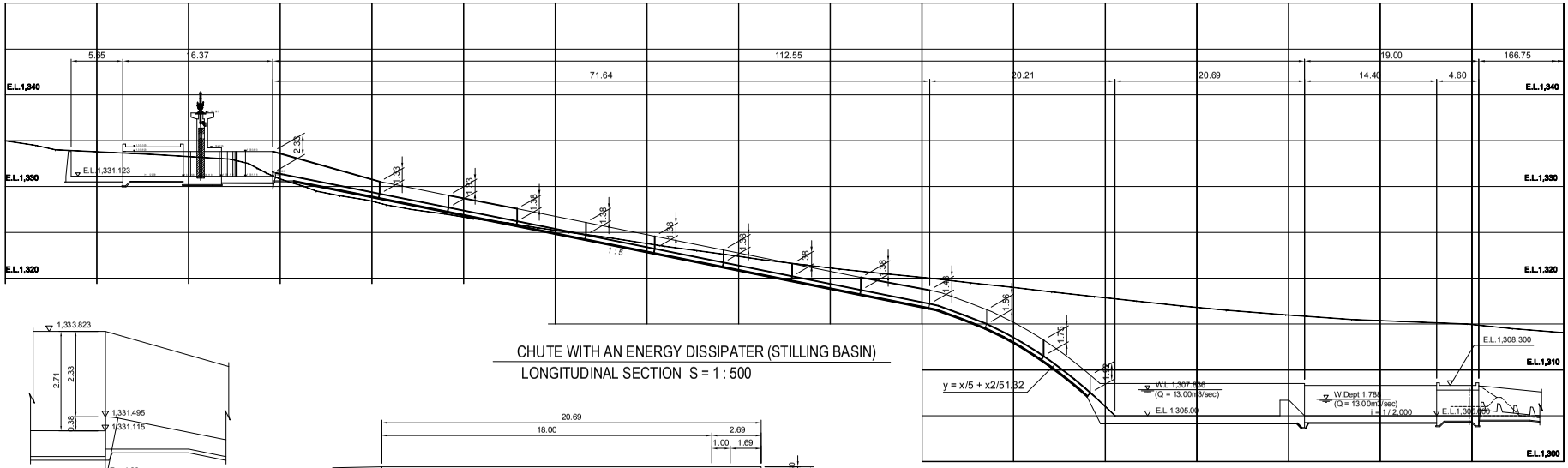
DIVERSION WORKS S = 1 : 200

Project: Preparatory Survey for Yeghvard Irrigation System Improvement Project		Drawing No:	Drawn by: Sanyu Consultants Inc.
Drawing Title: Feeder Canal System 2, Structural Drawing of Diversion Works		Scale: Indicated	Checked by:
Revision	Initials	All dimension in: Meter	Approved by:

APP E-20

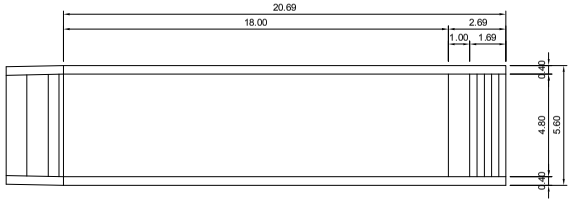


CHUTE WITH AN ENERGY DISSIPATER (STILLING BASIN)
PLAN VIEW S = 1 : 500

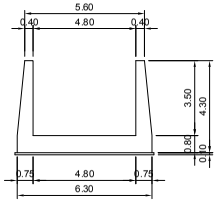


CHUTE WITH AN ENERGY DISSIPATER (STILLING BASIN)
LONGITUDINAL SECTION S = 1 : 500

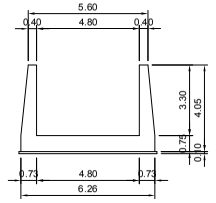
DETAIL A: INLET OF THE CHUTE S = 1 : 125



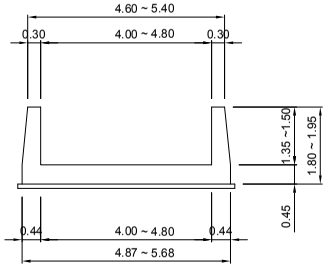
ENERGY DISSIPATER (STILLING BASIN): PLAN VIEW S = 1 : 250



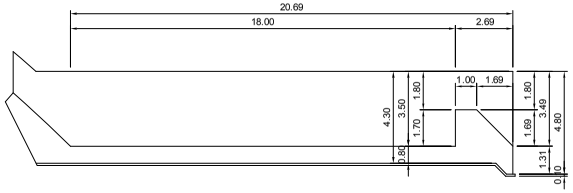
ENERGY DISSIPATER (STILLING BASIN)
CROSS SECTION S = 1 : 250



TRANSITION:
CROSS SECTION S = 1 : 250

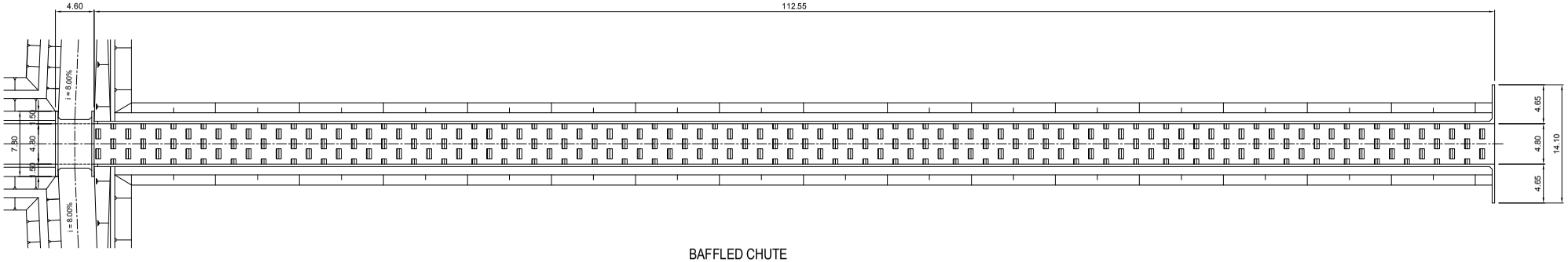


CHUTE CANAL: SECTION VIEW S = 1 : 125

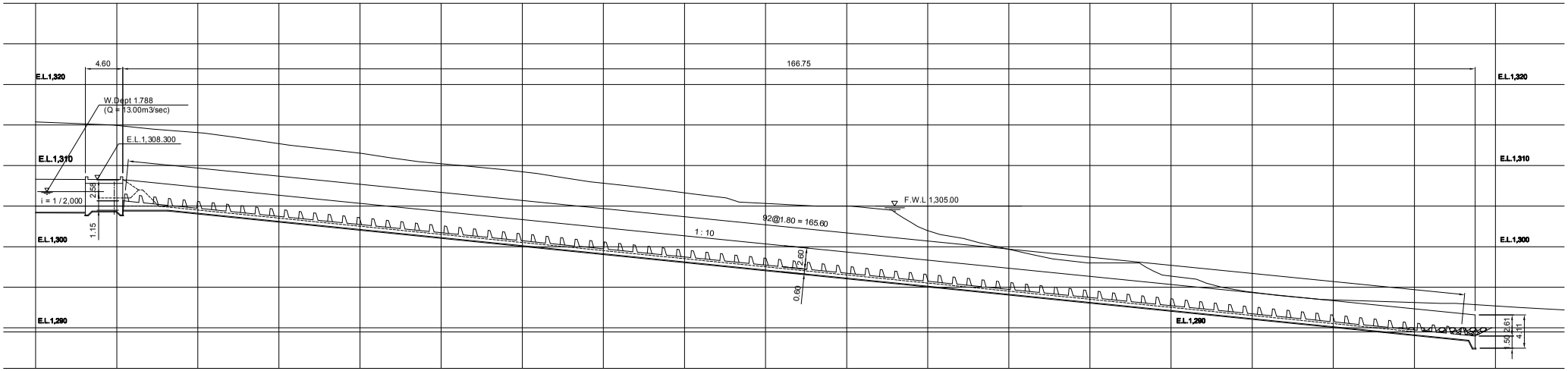


ENERGY DISSIPATER (STILLING BASIN): SECTION VIEW S = 1 : 250

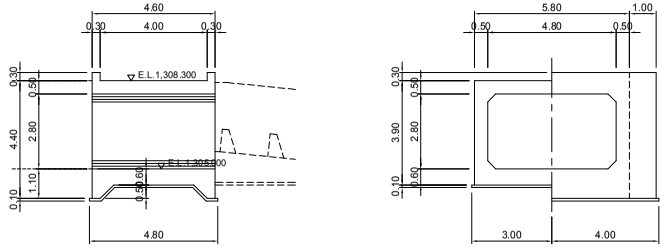
Project: Preparatory Survey for Yeghvard Irrigation System Improvement Project		Drawing No:	Drawn by: Sanyu Consultants Inc.
Drawing Title: Feeder Canal System 2, Structural Drawing of Chute with an Energy Dissipater		Scale: Indicated	Checked by:
Revision	Initials	All dimension in: Meter	Approved by:



BAFFLED CHUTE
PLAN VIEW S = 1 : 500



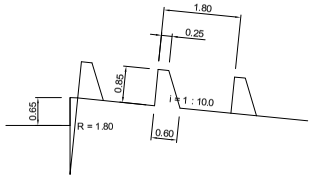
BAFFLED CHUTE
LONGITUDINAL SECTION S = 1 : 500



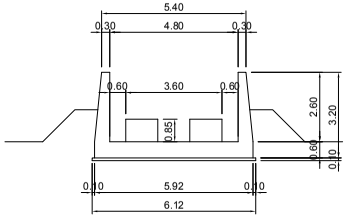
LONGITUDINAL SECTION

FRONT VIEW

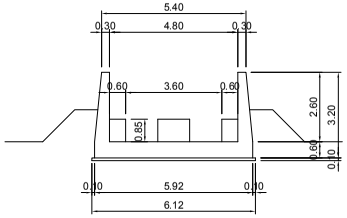
ROAD CULVERT S = 1 : 200



LAYOUT OF THE BAFFLED BLOCK



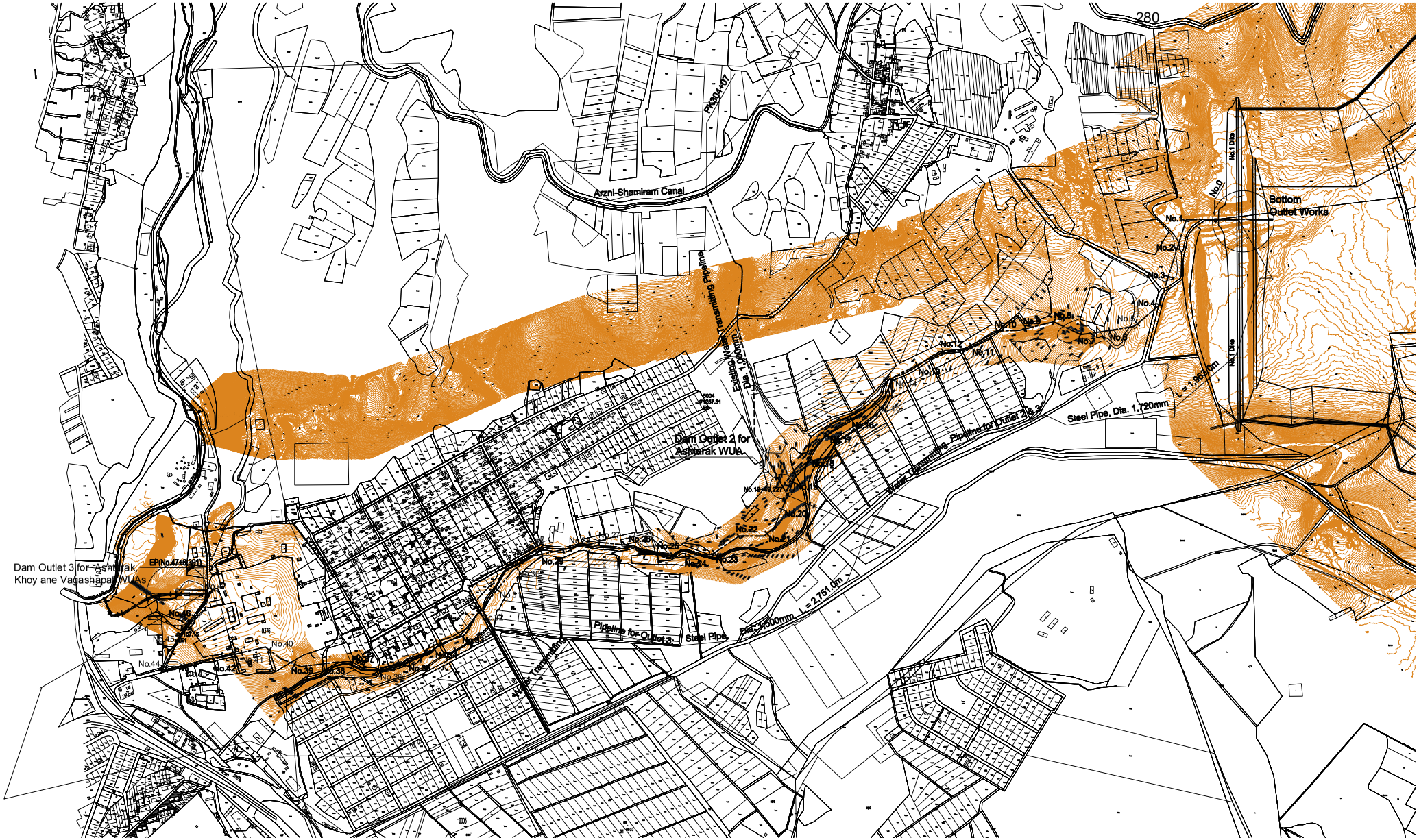
CROSS SECTION OF THE BAFFLED CHUTE



CROSS SECTION OF THE BAFFLED CHUTE

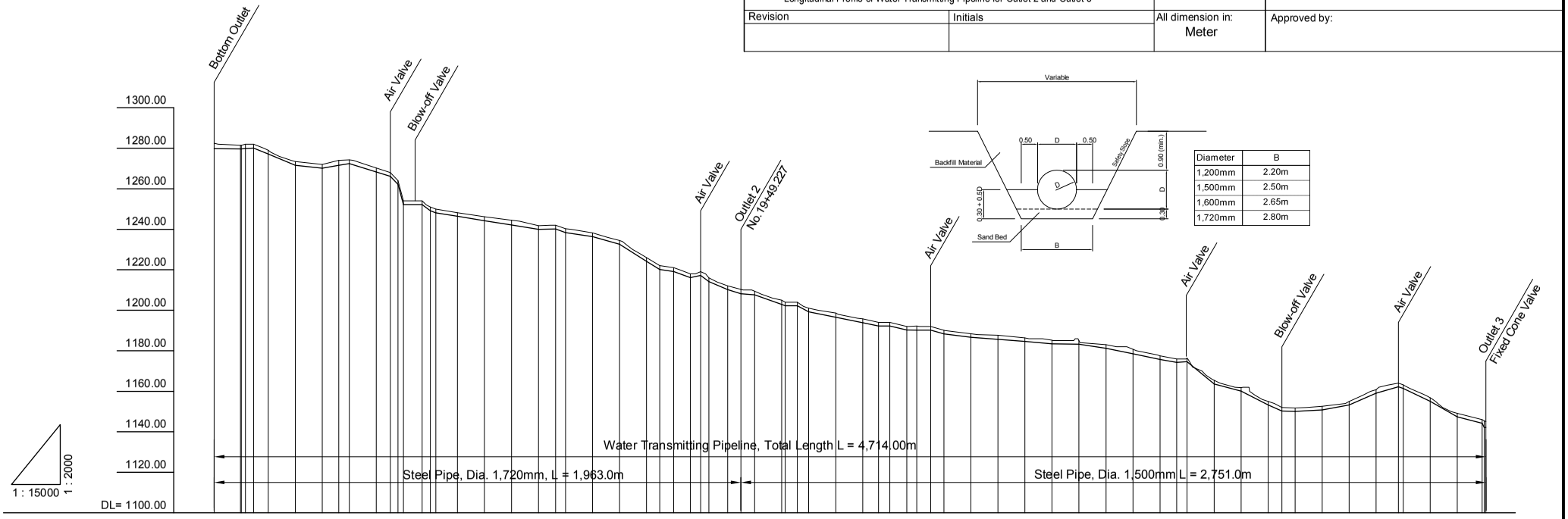
BAFFLED CHUTE S = 1 : 200

Project: Preparatory Survey for Yeghvard Irrigation System Improvement Project		Drawing No:	Drawn by: Sanyu Consultants Inc.
Drawing Title: Feeder Canal System 2, Structural Drawing of Baffled Chute		Scale: Indicated	Checked by:
Revision	Initials	All dimension in: Meter	Approved by:



Project: Preparatory Survey for Yeghvard Irrigation System Improvement Project		Drawing No:	Drawn by: Sanyu Consultants Inc.
Drawing Title: Outlet System, Layout of the No.1 Dike, Water Distribution System of the Outlet 2 and Outlet 3		Scale: S = 1 / 12,500	Checked by:
Revision	Initials	All dimension in: Meter	Approved by:

Project:	Drawing No:	Drawn by:
Preparatory Survey for Yeghvard Irrigation System Improvement Project		Sanyu Consultants Inc.
Drawing Title:	Scale:	Checked by:
Longitudinal Profile of Water Transmitting Pipeline for Outlet 2 and Outlet 3	Indicated	
Revision / Initials	All dimension in:	Approved by:
	Meter	



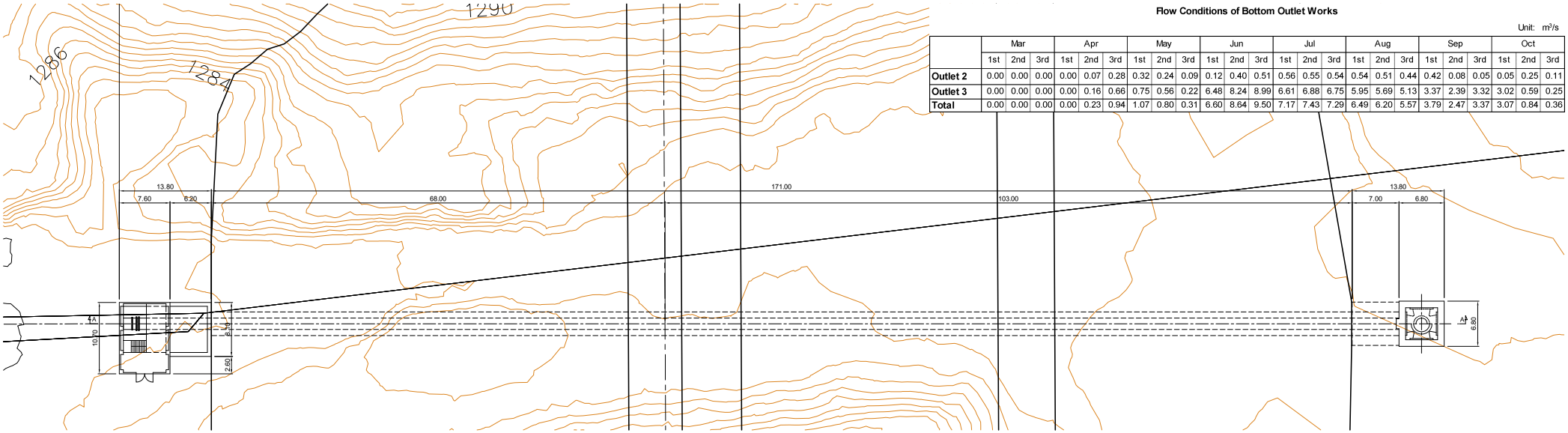
Diameter	B
1,200mm	2.20m
1,500mm	2.50m
1,600mm	2.65m
1,720mm	2.80m

Station	Distance (m)	Accumulate Distance (m)	Ground Elevation	Elevation of Pipe Center	Earth Covering	Elevation of Pipe Center	Slope (%)
No.0	0.00	0.00	1282.50	1279.80	1.84	1279.80	0.10
	98.70	98.70	1281.50	1279.70	0.84	1279.70	-0.96
No.1	15.00	115.00	1282.00	1279.84	1.30	1279.84	
	31.00	146.00	1282.00	1280.14	1.00	1280.14	5.58
No.2	54.00	200.00	1279.00	1277.12	1.02	1277.12	
No.3	100.00	300.00	1273.40	1271.54	1.00	1271.54	1.40
No.4	100.00	400.00	1272.00	1270.14	1.00	1270.14	-2.30
	61.00	461.00	1274.00	1271.54	1.60	1271.54	4.14
No.5	39.00	500.00	1274.30	1272.44	1.00	1272.44	
No.6	100.00	600.00	1270.30	1268.30	1.14	1268.30	14.29
	52.00	652.00	1269.00	1268.14	1.00	1268.14	50.00
No.7	28.00	680.00	1254.00	1252.14	1.00	1252.14	0.00
	89.00	769.00	1254.00	1252.14	1.00	1252.14	9.68
No.8	20.00	789.00	1250.00	1248.14	1.00	1248.14	5.00
No.9	80.00	869.00	1248.20	1246.41	0.93	1246.41	2.16
No.10	100.00	969.00	1246.20	1244.26	1.08	1244.26	
No.11	100.00	1069.00	1244.50	1242.10	1.54	1242.10	-0.32
No.12	100.00	1169.00	1241.80	1239.94	1.00	1239.94	4.86
	63.00	1232.00	1242.00	1240.14	1.00	1240.14	2.00
No.13	37.00	1269.00	1240.20	1238.34	1.00	1238.34	3.70
No.14	100.00	1369.00	1238.20	1236.34	1.00	1236.34	8.50
No.15	100.00	1469.00	1234.50	1232.64	1.00	1232.64	8.16
No.16	100.00	1569.00	1226.00	1224.14	1.00	1224.14	1.96
	49.00	1618.00	1222.00	1220.14	1.00	1220.14	4.84
No.17	51.00	1669.00	1221.00	1219.14	1.00	1219.14	-2.89
No.18	62.00	1731.00	1218.00	1216.14	1.00	1216.14	10.33
	38.00	1769.00	1219.10	1217.24	1.00	1217.24	5.71
No.19	30.00	1799.00	1216.00	1214.14	1.00	1214.14	
No.20	70.00	1869.00	1212.00	1210.14	1.00	1210.14	4.06
	49.23	1918.23	1210.00	1208.14	1.00	1208.14	0.97
No.21	50.77	1969.00	1209.40	1207.65	1.00	1207.65	4.78
No.22	100.00	2069.00	1205.00	1202.87	1.38	1202.87	0.00
	13.00	2082.00	1204.00	1202.25	1.00	1202.25	
No.23	45.00	2127.00	1204.00	1202.25	1.00	1202.25	7.14
	42.00	2169.00	1201.00	1199.25	1.00	1199.25	
No.24	100.00	2269.00	1198.70	1196.54	1.41	1196.54	2.71
No.25	100.00	2369.00	1195.80	1193.82	1.23	1193.82	
	58.00	2427.00	1194.00	1192.25	1.00	1192.25	0.00
	42.00	2469.00	1194.00	1192.25	1.00	1192.25	3.17
No.26	63.00	2532.00	1192.00	1190.25	1.00	1190.25	0.10
	37.00	2569.00	1192.20	1190.21	1.24	1190.21	3.70
No.27	51.00	2620.00	1192.00	1190.16	1.09	1190.16	1.70
No.28	100.00	2720.00	1190.10	1188.35	1.00	1188.35	
No.29	100.00	2820.00	1188.40	1186.65	1.00	1186.65	1.00
No.30	100.00	2920.00	1187.70	1185.65	1.30	1185.65	
No.31	100.00	3020.00	1186.40	1184.65	1.00	1184.65	1.20
No.32	100.00	3120.00	1185.20	1183.45	1.00	1183.45	0.20
No.33	100.00	3220.00	1185.00	1183.25	1.00	1183.25	2.00
No.34	100.00	3320.00	1183.00	1181.25	1.00	1181.25	2.75
No.35	100.00	3420.00	1180.70	1178.50	1.45	1178.50	
	62.00	3482.00	1177.50	1175.75	1.00	1175.75	2.42
No.36	38.00	3520.00	1176.00	1174.25	1.00	1174.25	-1.05
	42.00	3562.00	1176.40	1174.65	1.00	1174.65	11.00
No.37	100.00	3662.00	1165.40	1163.65	1.00	1163.65	3.60
No.38	100.00	3762.00	1161.80	1160.05	1.00	1160.05	6.80
No.39	100.00	3862.00	1155.00	1153.25	1.00	1153.25	5.88
	51.00	3913.00	1152.00	1150.25	1.00	1150.25	0.41
No.40	49.00	3962.00	1151.80	1150.05	1.00	1150.05	-0.80
No.41	100.00	4062.00	1152.60	1150.85	1.00	1150.85	-2.40
No.42	100.00	4162.00	1155.00	1153.25	1.00	1153.25	-5.80
No.43	100.00	4262.00	1160.80	1159.05	1.00	1159.05	-3.90
	82.00	4344.00	1164.00	1162.25	1.00	1162.25	4.44
No.44	18.00	4362.00	1163.20	1161.45	1.00	1161.45	6.40
No.45	100.00	4462.00	1156.80	1155.05	1.00	1155.05	7.70
No.46	100.00	4562.00	1149.10	1147.35	1.00	1147.35	3.37
	92.00	4654.00	1146.00	1144.25	1.00	1144.25	25.62
No.47	8.00	4662.00	1145.50	1142.20	2.05	1142.20	0.00
	6.00	4706.00	1145.00	1142.20	2.05	1142.20	

Flow Conditions of Bottom Outlet Works

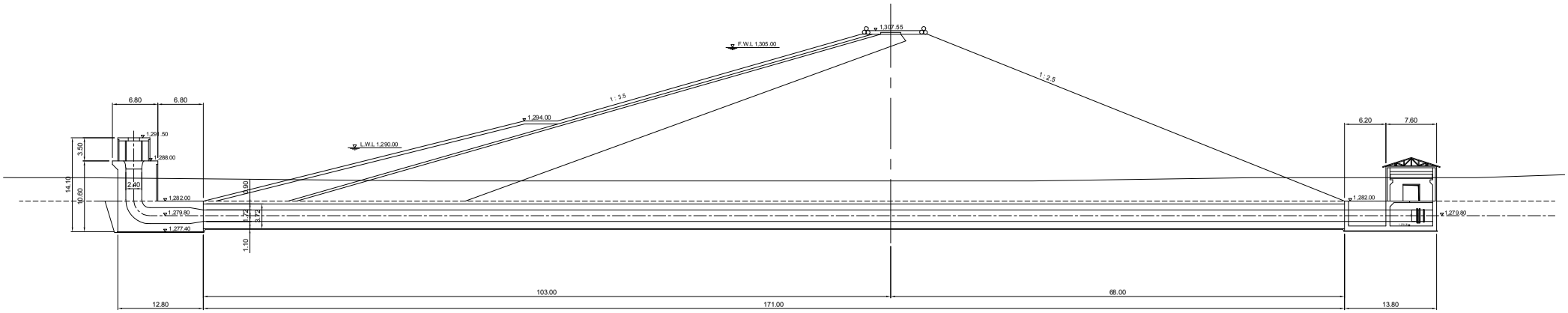
Unit: m^3/s

	Mar			Apr			May			Jun			Jul			Aug			Sep			Oct		
	1st	2nd	3rd	1st	2nd	3rd	1st	2nd	3rd	1st	2nd	3rd	1st	2nd	3rd	1st	2nd	3rd	1st	2nd	3rd	1st	2nd	3rd
Outlet 2	0.00	0.00	0.00	0.00	0.07	0.28	0.32	0.24	0.09	0.12	0.40	0.51	0.56	0.55	0.54	0.54	0.51	0.44	0.42	0.08	0.05	0.05	0.25	0.11
Outlet 3	0.00	0.00	0.00	0.00	0.16	0.66	0.75	0.56	0.22	6.48	8.24	8.99	6.61	6.88	6.75	5.95	5.69	5.13	3.37	2.39	3.32	3.02	0.59	0.25
Total	0.00	0.00	0.00	0.00	0.23	0.94	1.07	0.80	0.31	6.60	8.64	9.50	7.17	7.43	7.29	6.49	6.20	5.57	3.79	2.47	3.37	3.07	0.84	0.36



PLAN VIEW

S = 1 : 600

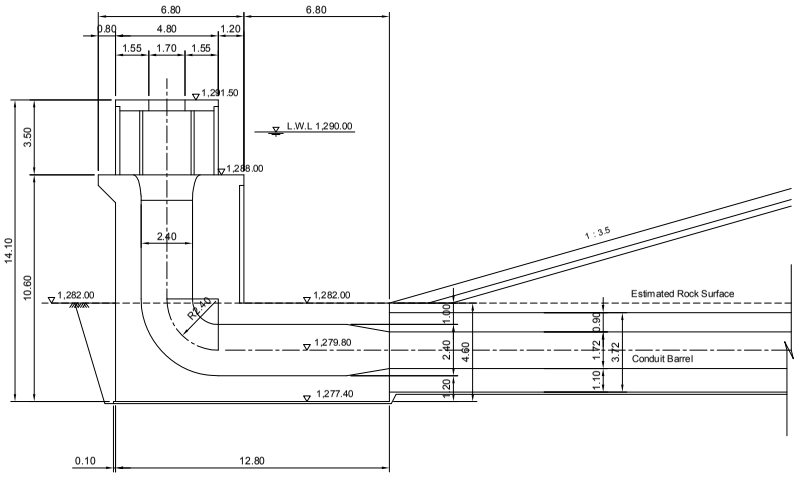


LONGITUDINAL SECTION (A - A)

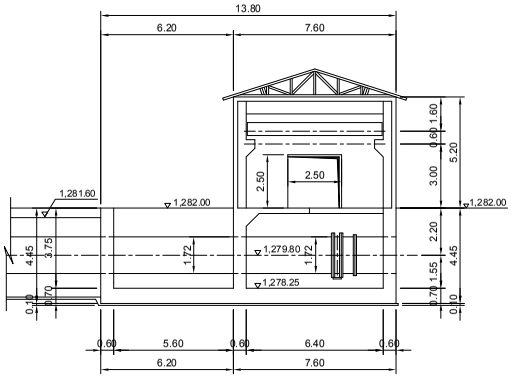
S = 1 : 600

Project: Preparatory Survey for Yeghvard Irrigation Improvement Project		Drawing No:	Drawn by: Sanyu Consultants Inc.
Drawing Title: Outlet System, Structural Drawing of the Bottom Outlet Works for Outlet 2 and Outlet 3 (1/2)		Scale: S = 1 : 600	Checked by:
Revision	Initials	All dimension in: Meter	Approved by:

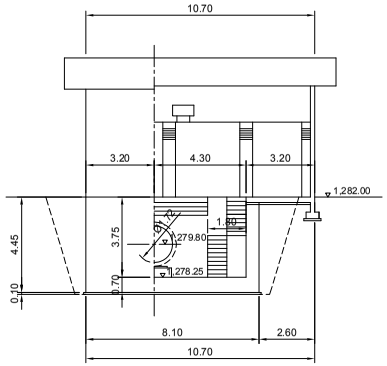
APP E-25



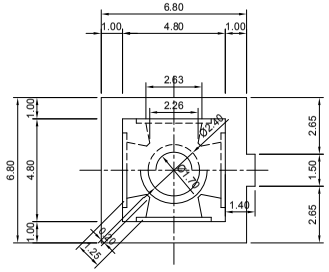
INLET TOWER OF BOTTOM OUTLET OF DIKE NO.1
LONGITUDINAL SECTION S = 1 : 250



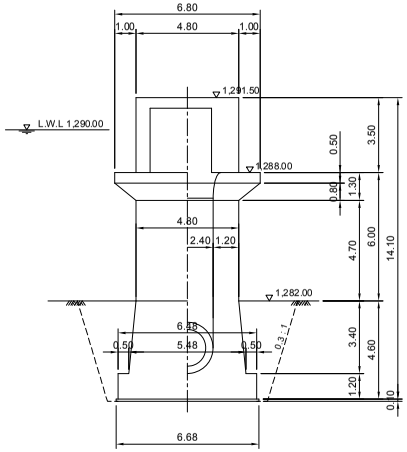
OPERATION HOUSE OF BOTTOM OUTLET
LONGITUDINAL SECTION S = 1 : 250



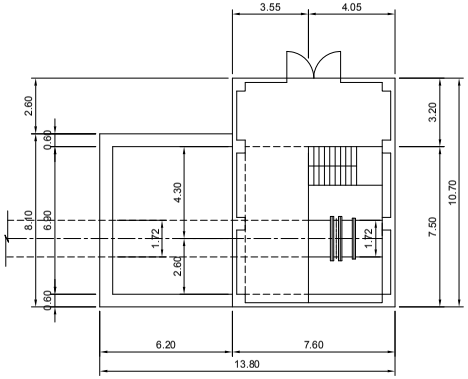
OPERATION HOUSE OF BOTTOM OUTLET
FRONT VIEW S = 1 : 250



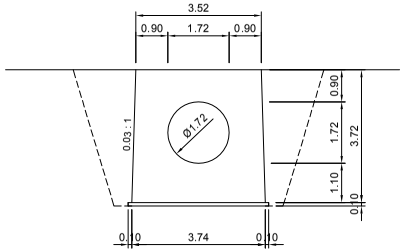
INLET TOWER OF BOTTOM OUTLET
PLAN VIEW S = 1 : 250



INLET TOWER OF BOTTOM OUTLET
FRONT VIEW S = 1 : 250

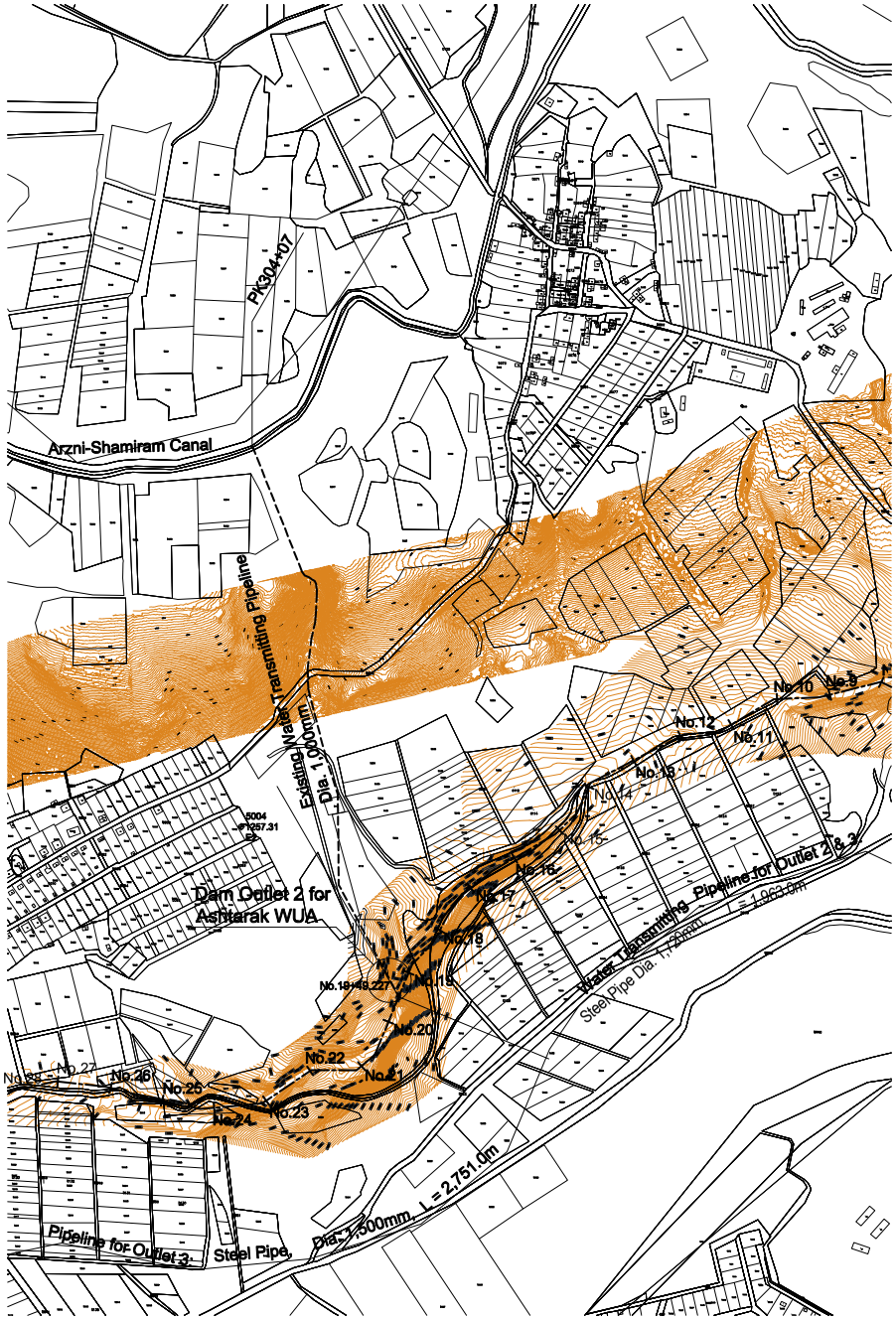


OPERATION HOUSE OF BOTTOM OUTLET
PLAN VIEW S = 1 : 250

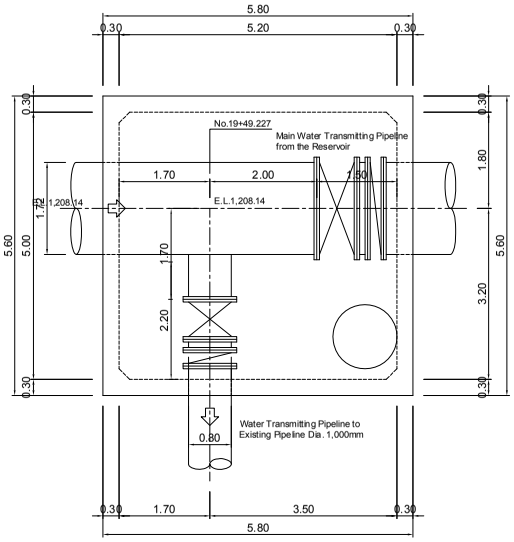


CONDUIT BARREL: STANDARD SECTION S = 1 : 150

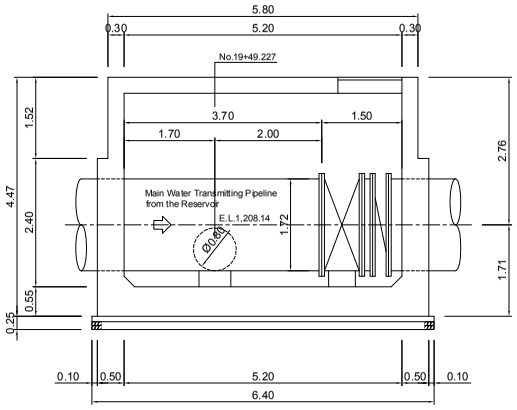
Project: Preparatory Survey for Yeghvard Irrigation System Improvement Project		Drawing No:	Drawn by: Sanyu Consultants Inc.
Drawing Title: Outlet System, Structural Drawing of the Bottom Outlet Works for Outlet 2 and Outlet 3 (2/2)		Scale: Indicated	Checked by:
Revision	Initials	All dimension in: Meter	Approved by:



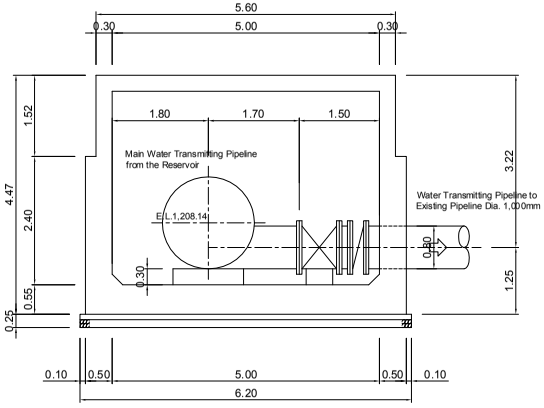
LOCATION MAP OF OUTLET 2
S = 1 : 10,000



DIVERSION WORKS FOR OUTLET 2: PLAN VIEW
S = 1 : 100

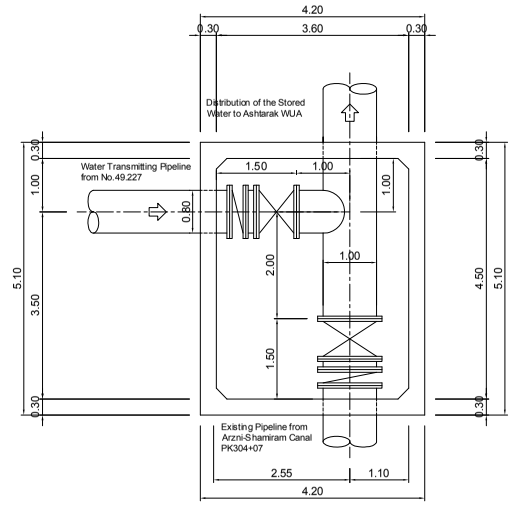


DIVERSION WORKS FOR Outlet 2: LONGITUDINAL SECTION
S = 1 : 100



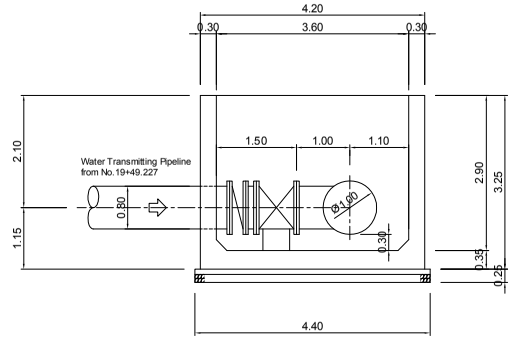
DIVERSION WORKS FOR OUTLET 2: SECTION
S = 1 : 100

Project: Preparatory Survey for Yeghvard Irrigation System Improvement Project		Drawing No:	Drawn by: Sanyu Consultants Inc.
Drawing Title: Outlet 2 & 3, Diversion Works for Outlet 2 for Ashtarak WUA		Scale: Indicated	Checked by:
Revision	Initials	All dimension in: Meter	Approved by:



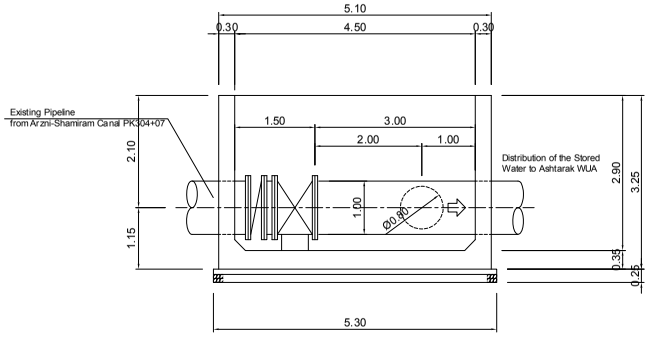
OUTLET 2: PLAN VIEW

S = 1 : 100



OUTLET 2: LONGITUDINAL SECTION

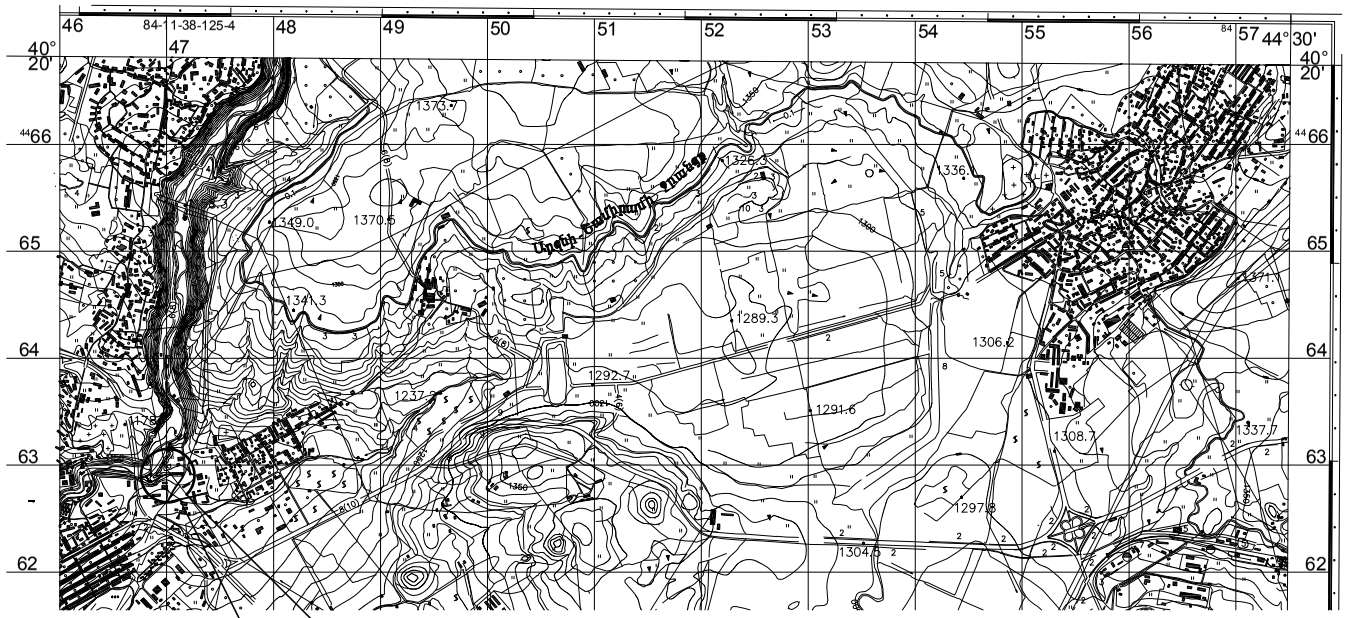
S = 1 : 100



OUTLET 2: SECTION

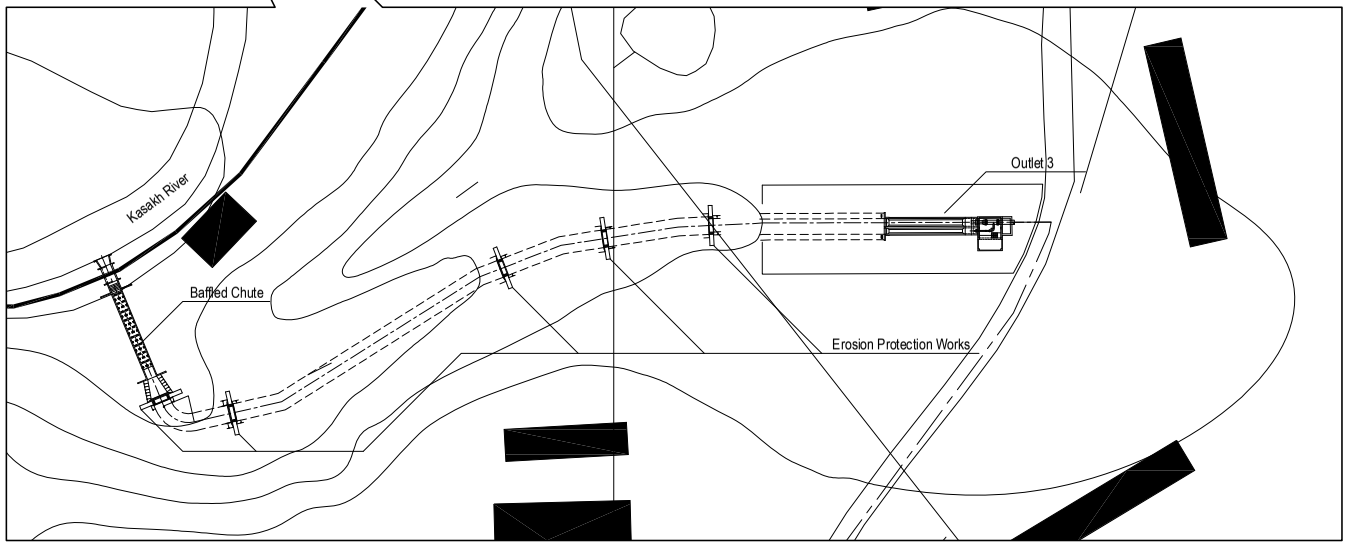
S = 1 : 100

Project: Preparatory Survey for Yeghvard Irrigation System Improvement Project		Drawing No:	Drawn by: Sanyu Consultants Inc.
Drawing Title: Outlet 2, Structural Drawing of the Outlet 2 for Ashtarak WUA		Scale: Indicated	Checked by:
Revision	Initials	All dimension in: Meter	Approved by:



LOCATION MAP OF OUTLET 3 WITH ENERGY DISSIPATOR

Scale 1 : 50,000



LAYOUT OF OUTLET 3 WITH ENERGY DISSIPATOR

Scale 1 : 2,000

Table: Design Discharge with Effective Water Head of Outlet 2 and Outlet 3

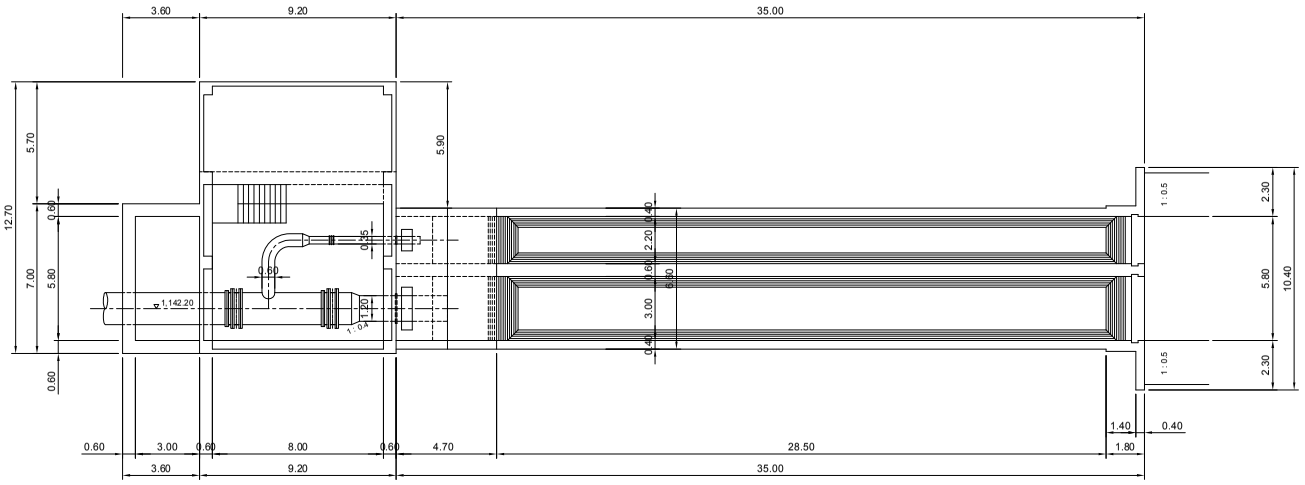
		Dam Water L	Outlet 2		Outlet 3		
			Discharge	Effective W. Head	Φ 1,200mm	Φ 350mm	Effective W. Head
	1st						
Apr	2nd	1,301.524	0.07	1,301.496	0.00	** 0.19	158.777
	3rd	1,302.492	0.28	1,302.145	0.00	0.66	154.096
May	1st	1,303.815	0.32	1,303.373	0.00	0.75	153.611
	2nd	1,304.906	0.24	1,304.657	0.00	0.56	158.241
	3rd	1,304.945	0.09	1,304.907	0.00	0.22	162.047
Jun	1st	1,304.141	0.12	1,295.502	6.48	0.00	126.266
	2nd	1,302.970	0.40	1,287.887	8.24	0.00	102.159
	3rd	1,301.648	0.51	1,283.296	8.99	0.00	89.487
Jul	1st	1,300.535	0.56	1,289.716	6.61	0.00	120.069
	2nd	1,299.381	0.55	1,287.852	6.88	0.00	115.741
	3rd	1,298.130	0.54	1,287.016	6.75	0.00	116.110
Aug	1st	1,296.879	0.54	1,287.918	5.95	0.00	123.538
	2nd	1,295.605	0.51	1,287.469	5.69	0.00	124.990
	3rd	1,294.254	0.44	1,287.704	5.13	0.00	128.940
Sep	1st	1,293.197	0.42	1,289.998	3.37	0.00	140.896
	2nd	1,292.609	0.08	1,291.409	0.00	2.39	70.267
	3rd	1,291.839	0.05	1,289.591	3.32	0.00	140.256
Oct	1st	1,290.968	0.05	1,289.098	3.02	0.00	141.007
	2nd	1,290.444	0.25	1,290.170	0.00	0.59	143.281
	3rd	1,290.126	0.11	1,290.088	0.00	0.25	147.041

Note: 0.19m³/sec in Apr 2nd is the discharge based on the 20 hours operation.

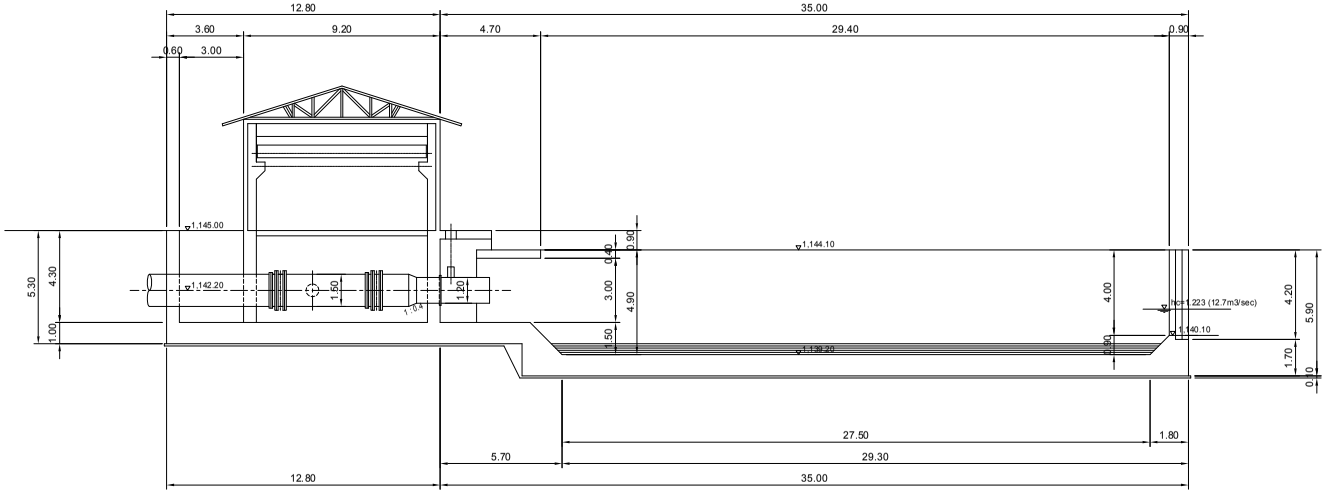
Table: Discharge to be released in the Emergency Case

Dam Water Level	F.C.Valve Dia 1,200mm		F.C.Valve Dia 350mm		Total Dischage to be released
	Discharge (1)	Eff. W. Head (2)	Discharge (3)	Eff. W. Head (4)	(5) = (1) + (3)
1,305	13.39	9.197	0.12	21.862	13.51
1,304	13.36	8.913	0.11	21.560	13.47
1,303	13.32	8.792	0.12	21.328	13.44
1,302	13.27	8.944	0.12	21.368	13.39
1,301	13.23	8.782	0.12	21.142	13.35
1,300	13.18	8.591	0.13	20.785	13.31
1,299	13.14	8.708	0.12	20.896	13.26
1,298	13.11	8.527	0.12	20.650	13.23
1,297	13.06	8.674	0.11	20.762	13.17
1,296	13.02	8.532	0.12	20.486	13.14
1,295	12.97	8.382	0.12	20.245	13.09
1,294	12.93	8.411	0.12	20.193	13.05
1,293	12.90	8.560	0.10	20.401	13.00
1,292	12.84	8.362	0.12	19.973	12.96
1,291	12.81	8.143	0.11	19.764	12.92
1,290	12.75	8.034	0.13	19.420	12.88

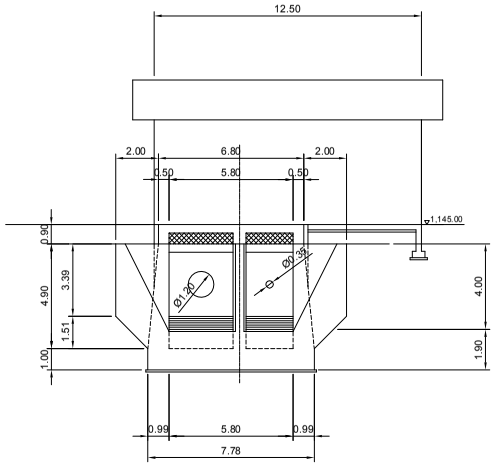
Project: Preparatory Survey for Yeghvard Irrigation System Improvement Project		Drawing No:	Drawn by: Sanyu Consultants Inc.
Drawing Title: Outlet 3, Layout of the Outlet Facilities		Scale: Indicated	Checked by:
Revision	Initials	All dimension in: Meter	Approved by:



OUTLET WORKS 3: PLAN VIEW S = 1 : 250

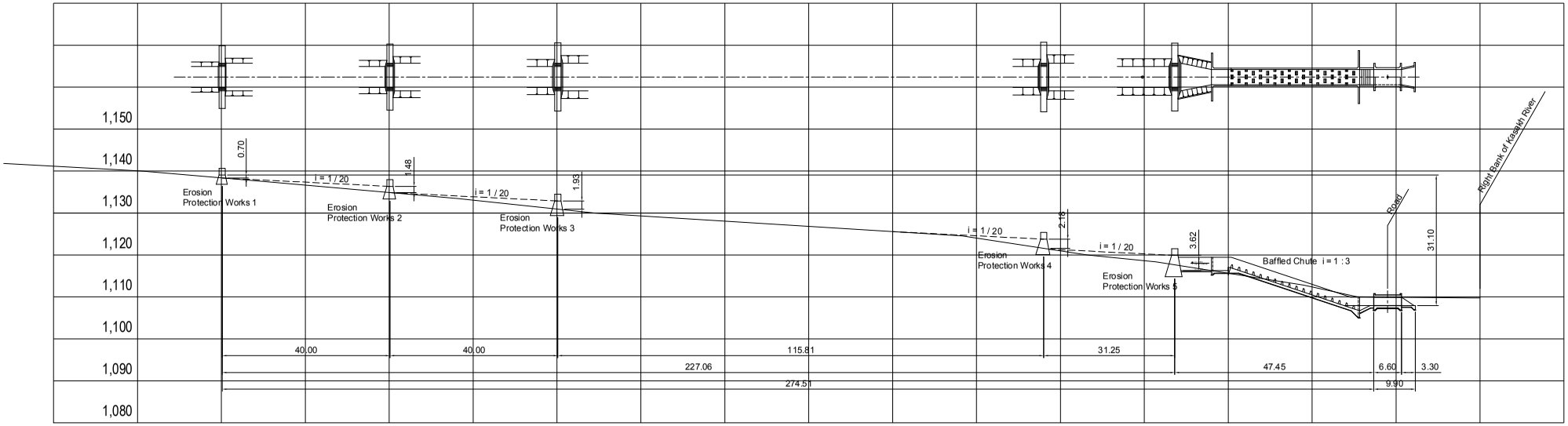


OUTLET WORKS 3: LONGITUDINAL SECTION S = 1 : 250

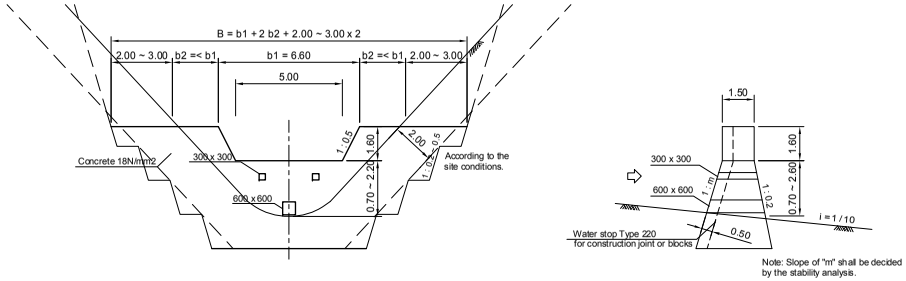


OUTLET WORKS 3: FRONT VIEW S = 1 : 250

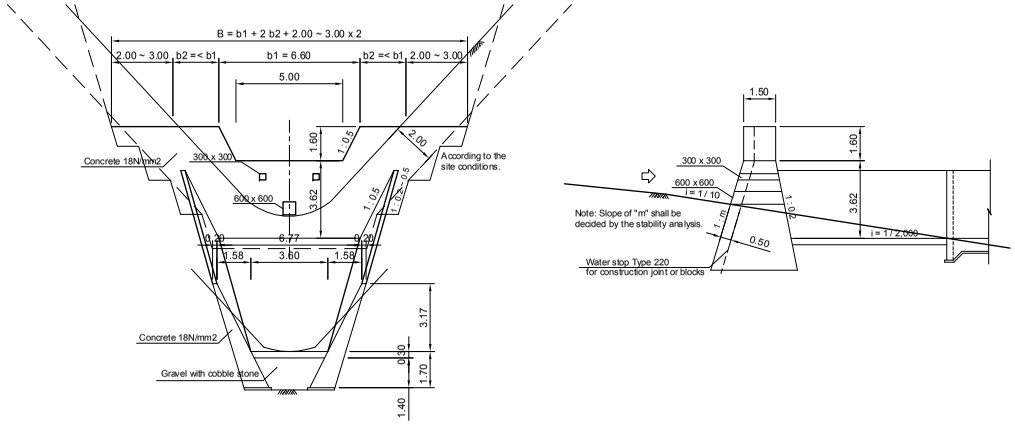
Project: Preparatory Survey for Yeghvard Irrigation System Improvement Project		Drawing No:	Drawn by: Sanyu Consultants Inc.
Drawing Title: Outlet 3, Fixed Cone Valve with an Energy Dissipation Chamber		Scale: Indicated	Checked by:
Revision	Initials	All dimension in: Meter	Approved by:



EROSION PROTECTION WORKS WITH A BAFFLED CHUTE
LONGITUDINAL SECTION S = 1 : 1,000

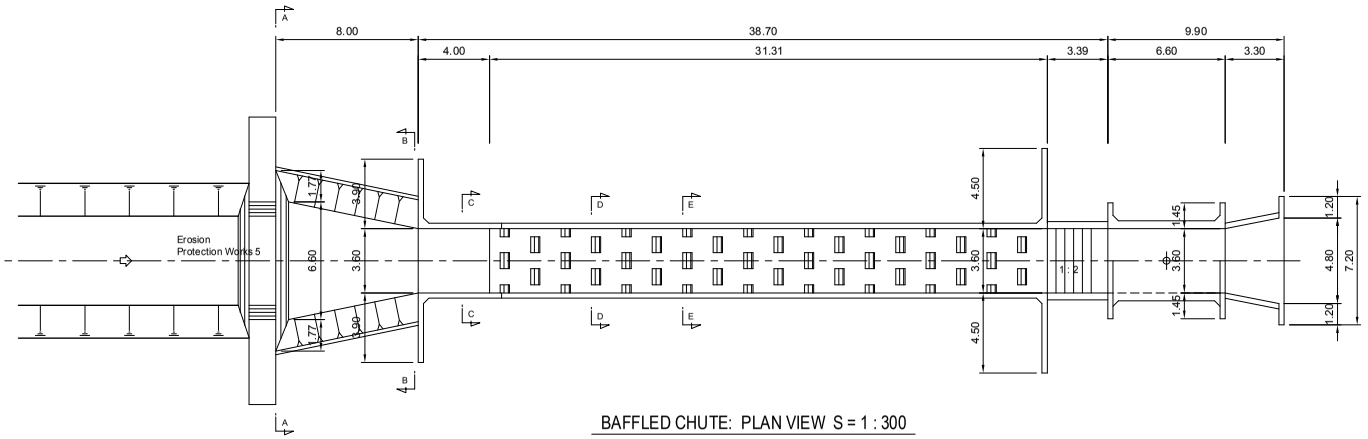


EROSION PROTECTION WORKS 1 ~ 4
S = 1 : 250

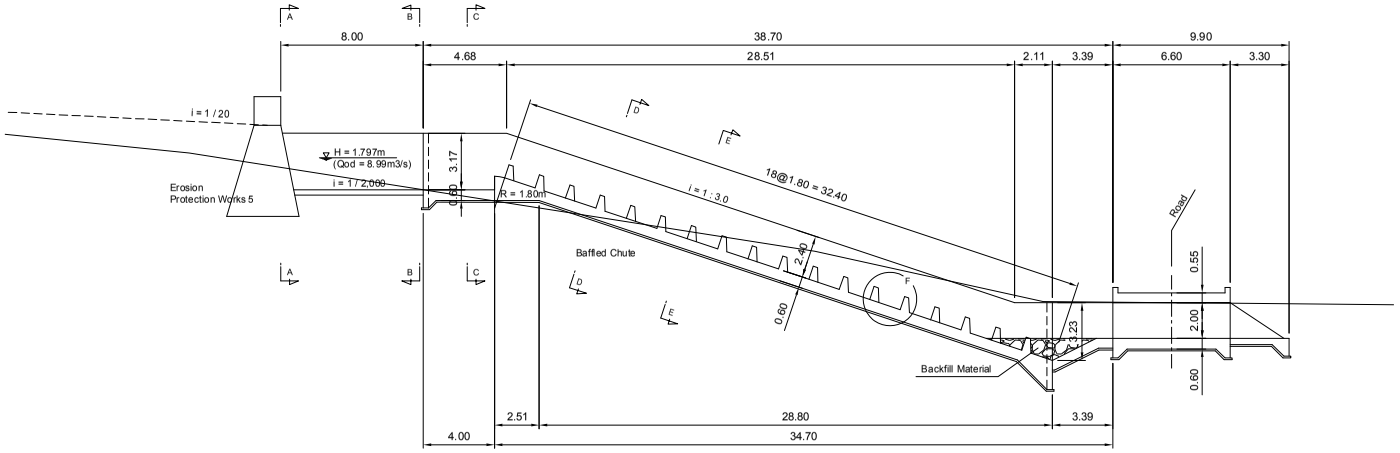


EROSION PROTECTION WORKS 5
S = 1 : 250

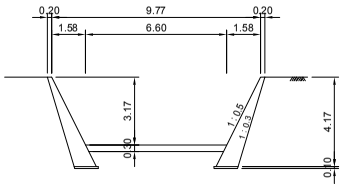
Project: Preparatory Survey for Yeghvard Irrigation System Improvement Project		Drawing No:	Drawn by: Sanyu Consultants Inc.
Drawing Title: Outlet 3, Longitudinal Profile of the Waterway from Outlet 3		Scale: Indicated	Checked by:
Revision	Initials	All dimension in: Meter	Approved by:



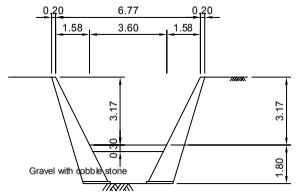
BAFFLED CHUTE: PLAN VIEW S = 1 : 300



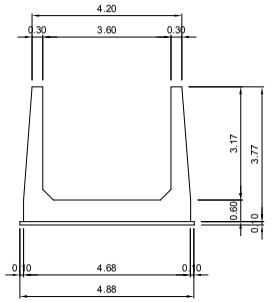
BAFFLED CHUTE: LONGITUDINAL SECTION VIEW S = 1 : 300



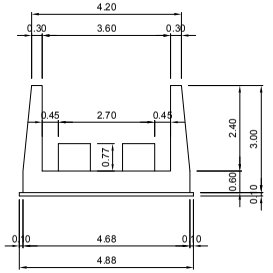
SECTION A - A
S = 1 : 250



SECTION B - B
S = 1 : 250



SECTION C - C
S = 1 / 150



SECTION D - D
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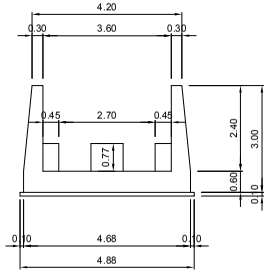

SECTION E - E
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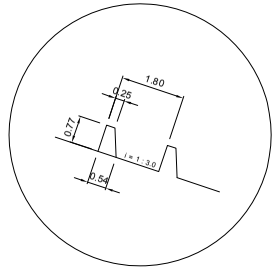
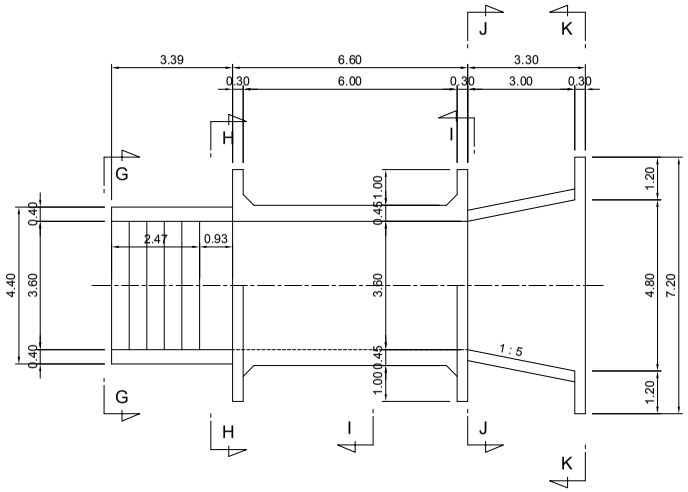
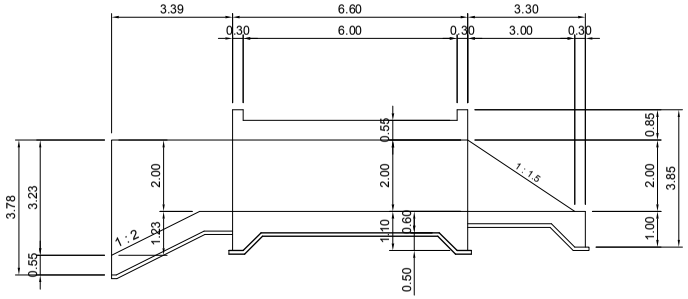


DETAIL F S = 1 / 125

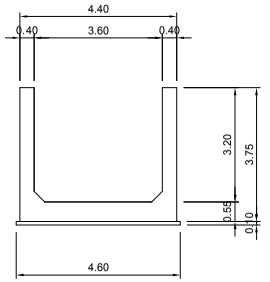
Project: Preparatory Survey for Yeghvard Irrigation System Improvement Project		Drawing No:	Drawn by: Sanyu Consultants Inc.
Drawing Title: Outlet 3, Structural Drawing of a Baffled Chute		Scale: Indicated	Checked by:
Revision	Initials	All dimension in: Meter	Approved by:



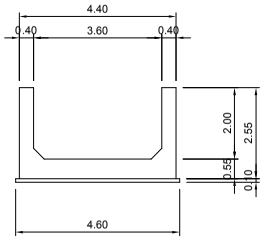
ROAD CROSSING CULVERT: PLAN VIEW S = 1 : 150



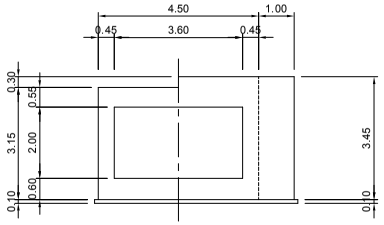
ROAD CROSSING CULVERT: SECTION S = 1 : 150



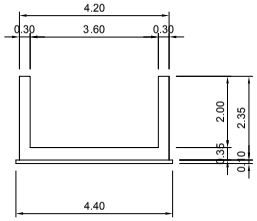
SECTION G - G
S = 1 : 150



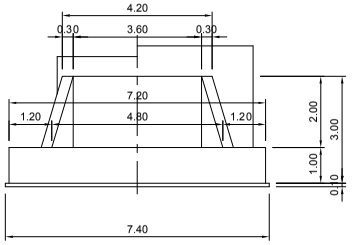
SECTION H - H
S = 1 : 150



SECTION I - I
S = 1 : 150

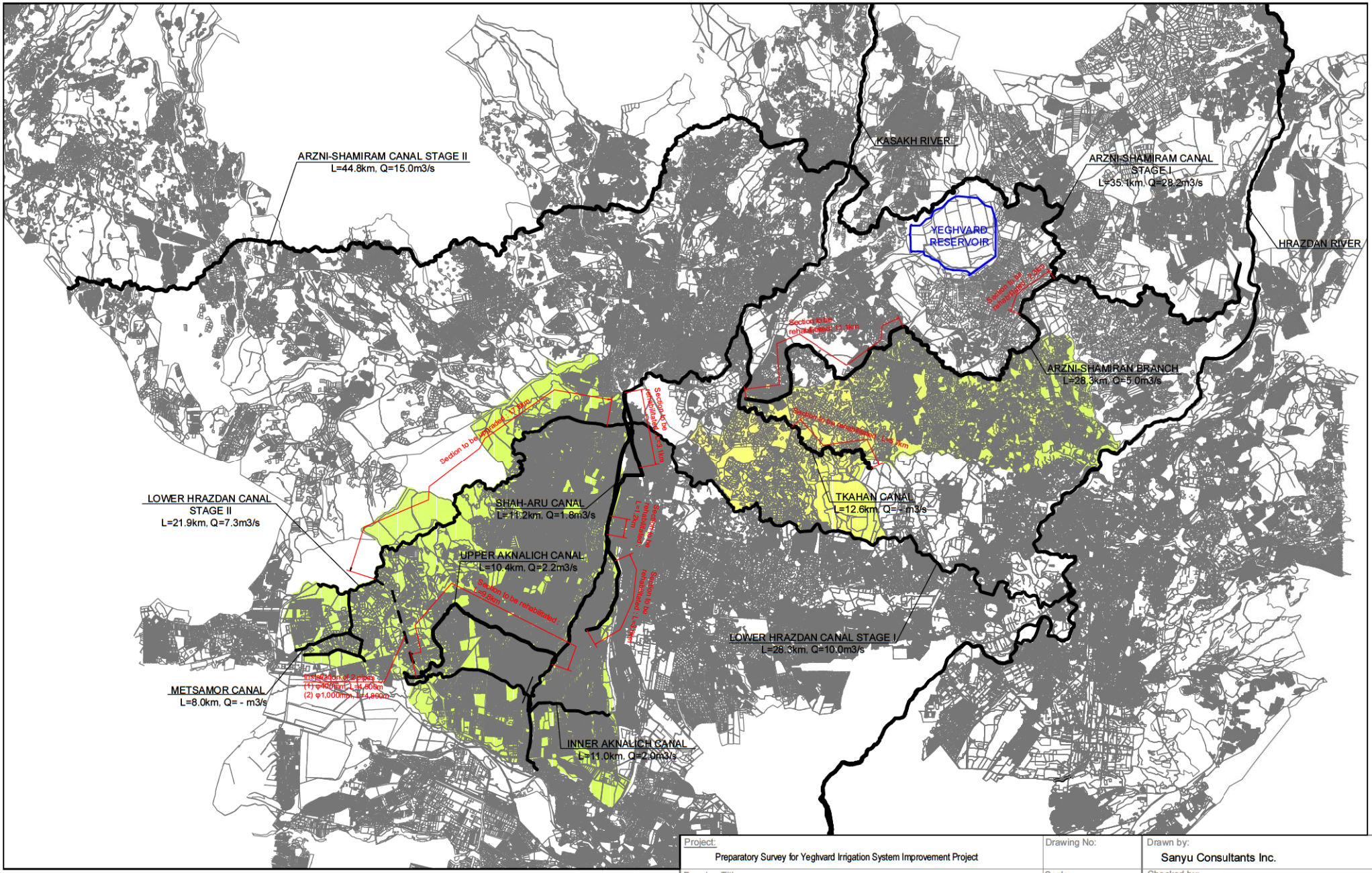


SECTION J - J
S = 1 : 150



SECTION K - K
S = 1 : 150

Project: Preparatory Survey for Yeghvard Irrigation System Improvement Project		Drawing No:	Drawn by: Sanyu Consultants Inc.
Drawing Title: Outlet 3, Structural Drawing of a Road Crossing Culvert		Scale: Indicated	Checked by:
Revision	Initials	All dimension in: Meter	Approved by:



Note
Beneficiary area : 12,347ha
(Upstream area : 3,644ha, Downstream area : 8,703ha)

GENERAL PLAN

Project: Preparatory Survey for Yeghvard Irrigation System Improvement Project		Drawing No:	Drawn by: Sanyu Consultants Inc.
Drawing Title: General plan		Scale: 1:150,000	Checked by:
Revision	Initials	All dimension in: Meter	Approved by: