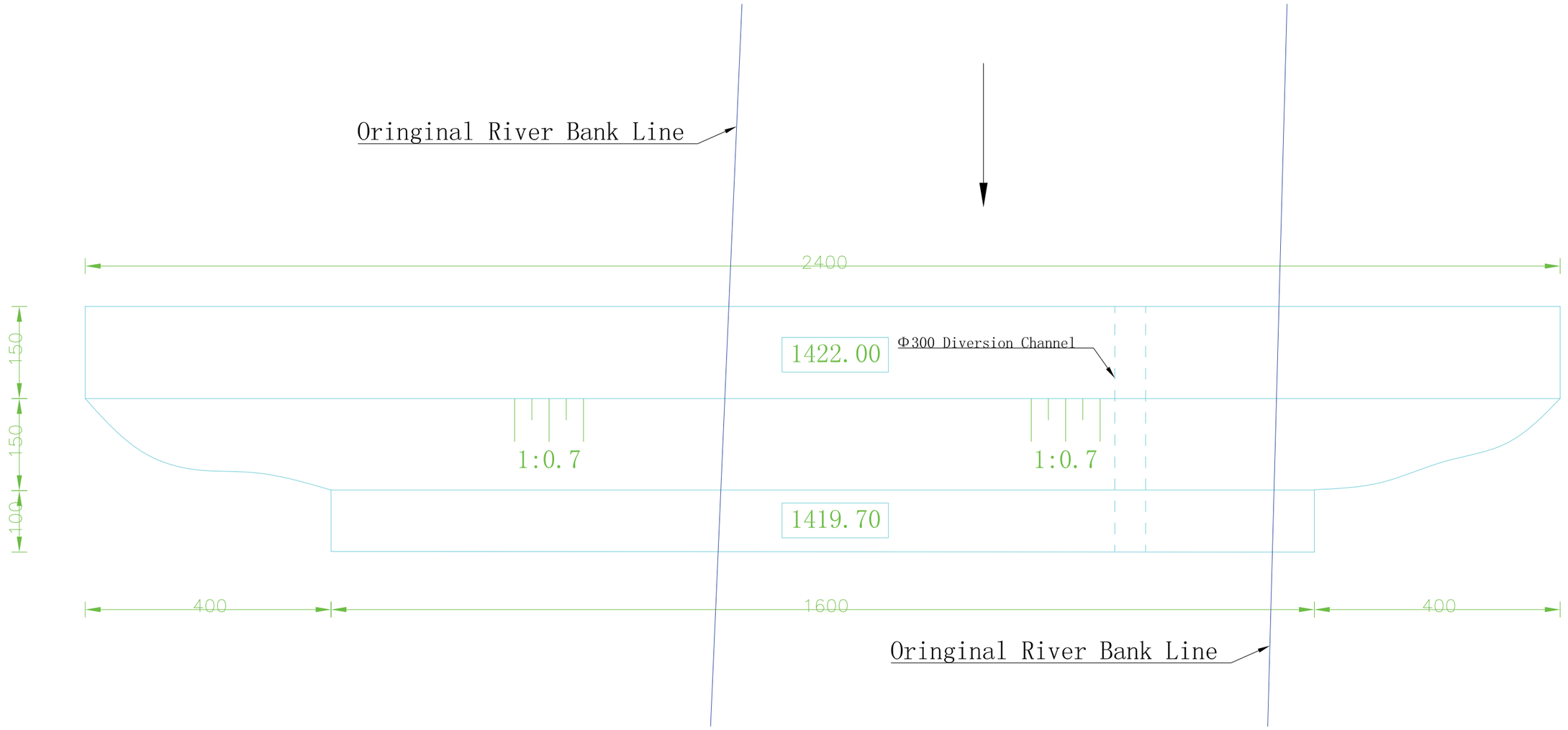
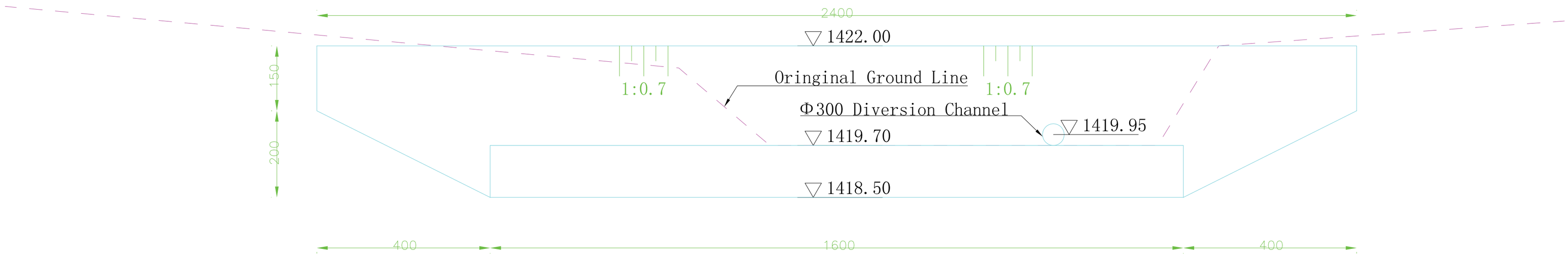
Drawing No.: CHIPOTA--Hydraulic--05



Vertical View of Dam 1:100

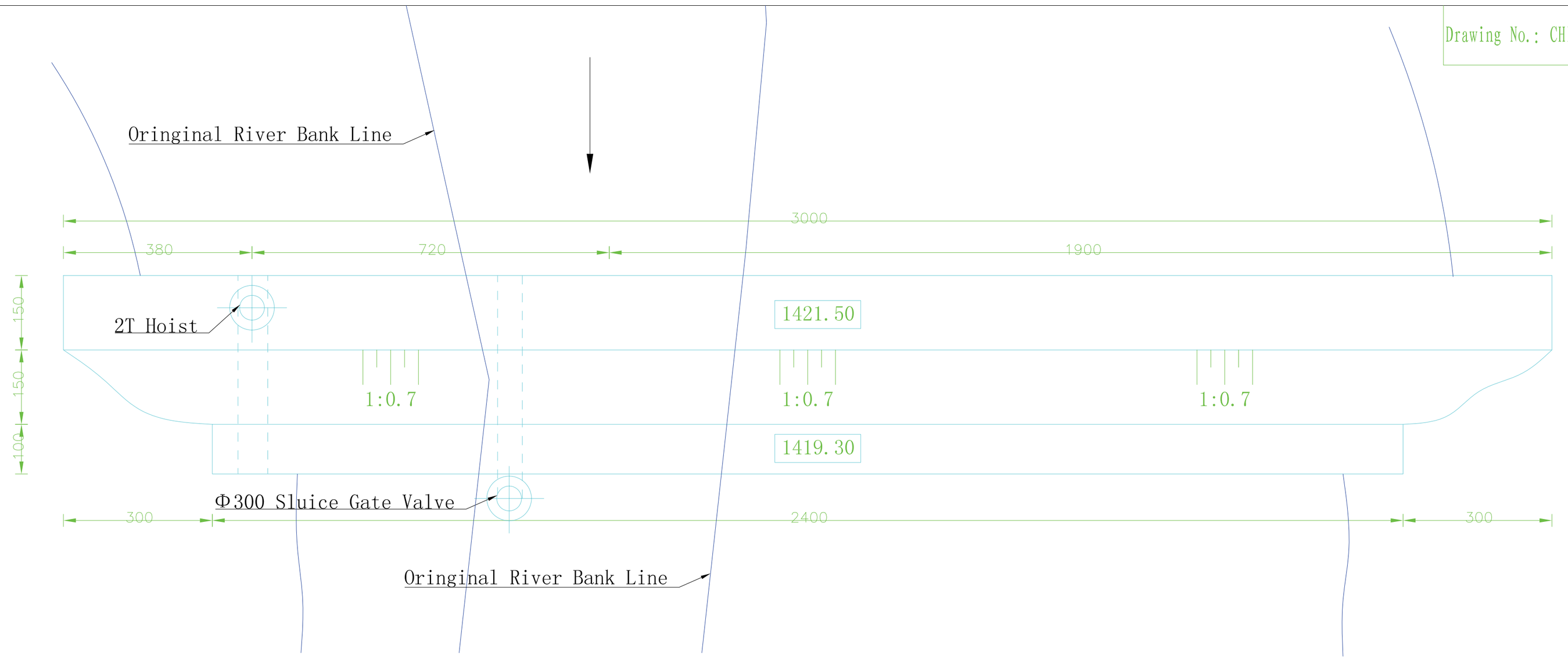


Downstream Elevation View of Dam 1:100

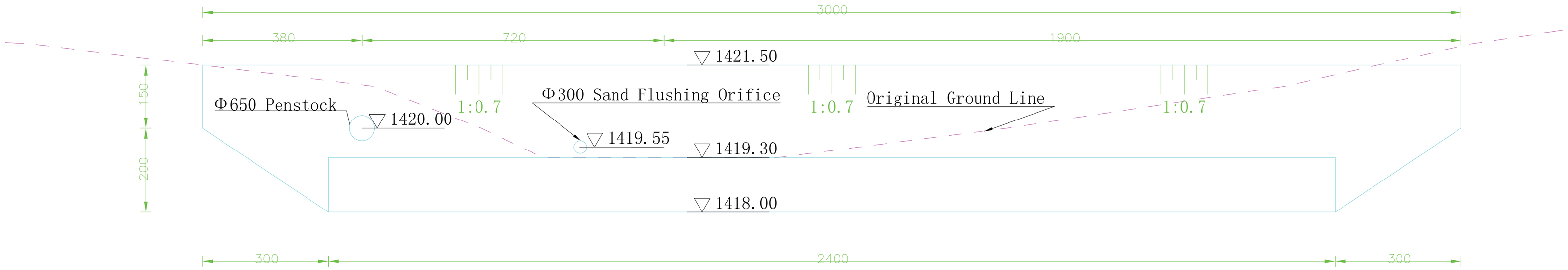
Specifications:
1. The unit of elevation is m, and the rest is mm;
2. The excavation of dam foundation requires to reech 0.5m below the intact rock mass, and the cutoff trench should be set at upstream;
3. The pouring of dam body will adopt C20 rubble concrete;
4. The construction of dam body should be subject to relevant regulations and specifications.

Hangzhou Guowang Technology Co., Ltd.	Design Certificate No.	Approval		Examine		Design		CHIPOTA FALLS Station Feasibility Study	Design Diagram of Dam (Compared Plan)	Feasibility Study	Ratio	1:100
				Check		Drawing				Hydraulic	Date	2016.08

Drawing No.: CHIPOTA--Hydraulic--07



Vertical View of Dam 1:100



Downstream Elevation View of Dam 1:100

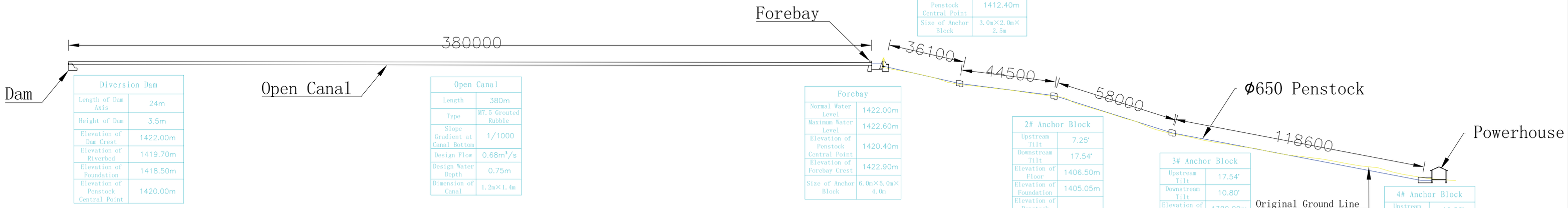
Specifications:
1. The unit of elevation is m, and the rest is mm;
2. The excavation of dam foundation requires to reech 0.5m below the intact rock mass, and the cutoff trench should be set at upstream;
3. The pouring of dam body will adopt C20 rubble concrete;
4. The construction of dam body should be subject to relevant regulations and specifications.

Hangzhou Guowang Technology Co., Ltd.	Design Certificate No.	Approval		Examine		Design		CHIPOTA FALLS Station Feasibility Study	Design Diagram of Dam (Recommended Plan)	Feasibility Study	Ratio	1:100
				Check		Drawing				Hydraulic	Date	2016.08

Drawing No.: CHIPOTA--Hydraulic--09

Section of Diversion System

1:2000



Diversion Dam	
Length of Dam Axis	24m
Height of Dam	3.5m
Elevation of Dam Crest	1422.00m
Elevation of Riverbed	1419.70m
Elevation of Foundation	1418.50m
Elevation of Penstock Central Point	1420.00m

Open Canal	
Length	380m
Type	M7.5 Grouted Rubble
Slope Gradient at Canal Bottom	1/1000
Design Flow	0.68m³/s
Design Water Depth	0.75m
Dimension of Canal	1.2m×1.4m

Forebay	
Normal Water Level	1422.00m
Maximum Water Level	1422.60m
Elevation of Penstock Central Point	1420.40m
Elevation of Forebay Crest	1422.90m
Size of Anchor Block	6.0m×5.0m×4.0m

1# Anchor Block	
Upstream Tilt	12.80°
Downstream Tilt	7.25°
Elevation of Floor	1412.00m
Elevation of Foundation	1410.85m
Elevation of Penstock Central Point	1412.40m
Size of Anchor Block	3.0m×2.0m×2.5m

2# Anchor Block	
Upstream Tilt	7.25°
Downstream Tilt	17.54°
Elevation of Floor	1406.50m
Elevation of Foundation	1405.05m
Elevation of Penstock Central Point	1406.80m
Size of Anchor Block	3.0m×2.0m×2.5m

3# Anchor Block	
Upstream Tilt	17.54°
Downstream Tilt	10.80°
Elevation of Floor	1389.00m
Elevation of Foundation	1387.82m
Elevation of Penstock Central Point	1389.32m
Size of Anchor Block	3.0m×2.0m×2.5m

4# Anchor Block	
Upstream Tilt	10.80°
Downstream Tilt	0°
Elevation of Floor	1368.50m
Elevation of Foundation	1366.00m
Elevation of Penstock Central Point	1367.10m
Size of Anchor Block	6.3m×(2.5m+7m)/2×2.5m

Horizontal Section of Canal (Earthwork Section)

1:50

Horizontal Section of Canal (Stonework Section)

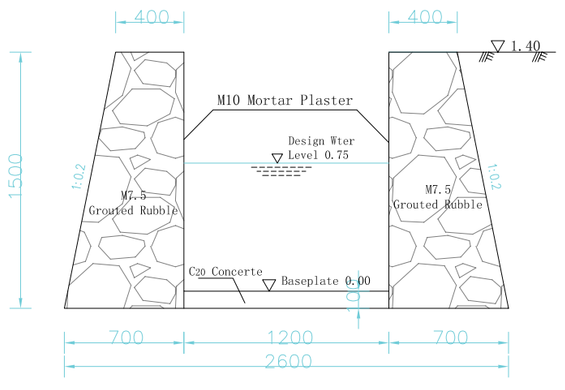
1:50

Horizontal Section of Pier

1:100

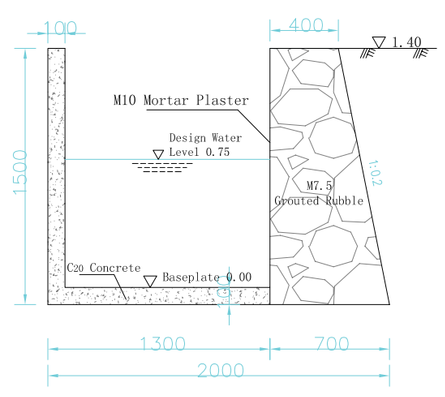
Horizontal Section of Tailrace

1:50



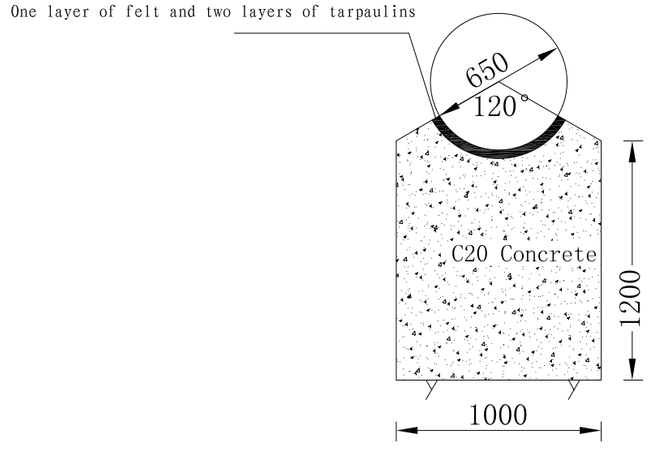
Vertical Section of Anchor Block (Typical Design)

1:100



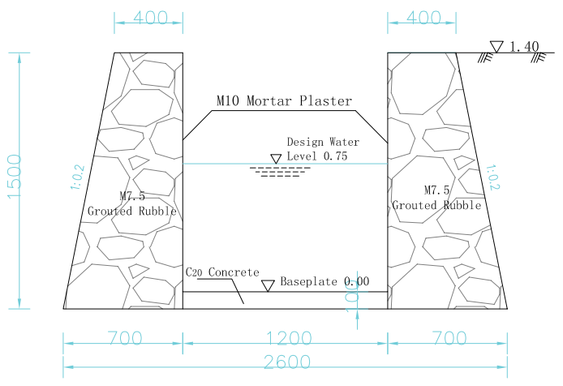
Horizontal Section of Anchor Block (Typical Design)

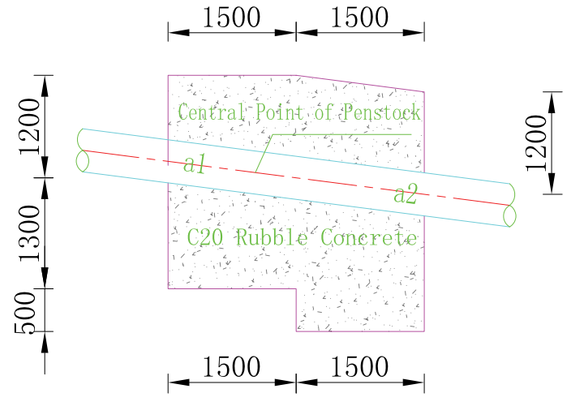
1:100

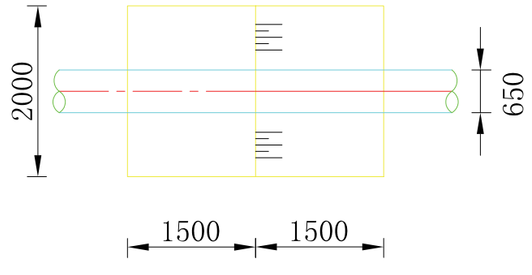


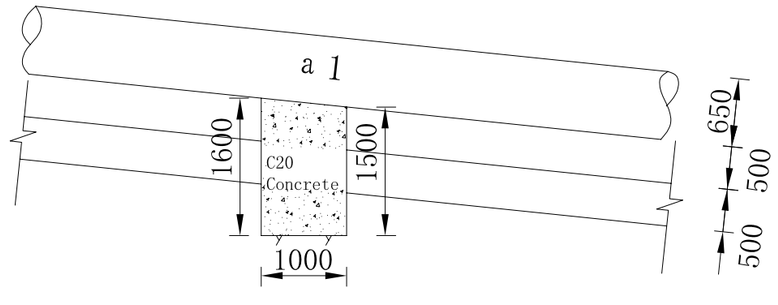
Vertical Section of Pier

1:100









Specifications:

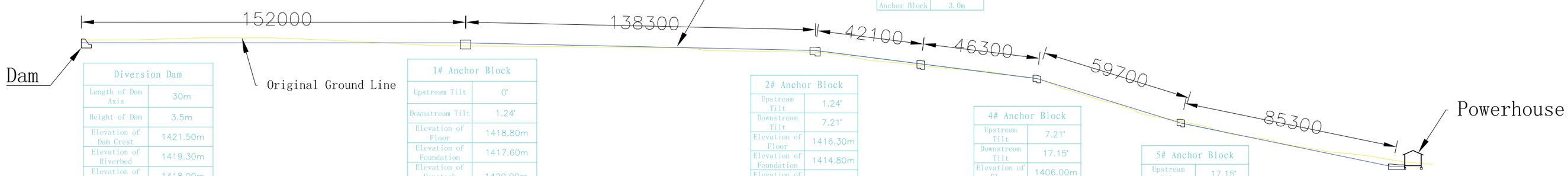
1. The unit of elevation and vertical section dimension is m, and the rest is mm;
2. The coating concrete of anchor block, pier and penstock adopts C20 Concrete. The temperature steel is set on the surface of anchor block;
3. The distance between piers is 5～8m, and a expansion joint is set 1.5m downstream from 1～3# anchor blocks respectively;
4. The foundation of anchor blocks and piers are rocks. If the penstock foundation in excavation section is soil, grouted rubbles of 300mm should be arranged on the bottom for protection;
5. Other constructions should be subject to relevant regulations andd specifications.

Hangzhou Guowang Technology Co., Ltd.	Design Certificate No.	Approval		Examine		Design		CHIPOTA FALLS Station Feasibility Study	Design Diagram of Diversion System (Compared Plan)	Feasibility Study	Ratio	1:100
				Check		Drawing				Hydraulic	Date	2016.08

Drawing No.: CHIPOTA--Hydraulic--10

Section of Diversion System

1:2000



Diversion Dam	
Length of Dam Axis	30m
Height of Dam	3.5m
Elevation of Dam Crest	1421.50m
Elevation of Riverbed	1419.30m
Elevation of Foundation	1418.00m
Elevation of Penstock Central Point	1420.03

1# Anchor Block	
Upstream Tilt	0°
Downstream Tilt	1:24
Elevation of Floor	1418.80m
Elevation of Foundation	1417.60m
Elevation of Penstock Central Point	1420.00m
Size of Anchor Block	4.2m×2.5m×3.5m

2# Anchor Block	
Upstream Tilt	1:24
Downstream Tilt	7.21°
Elevation of Floor	1416.30m
Elevation of Foundation	1414.80m
Elevation of Penstock Central Point	1417.00m
Size of Anchor Block	4.0m×2.5m×3.5m

3# Anchor Block	
Upstream Tilt	7.21°
Downstream Tilt	7.21°
Elevation of Floor	1411.00m
Elevation of Foundation	1409.50m
Elevation of Penstock Central Point	1411.71m
Size of Anchor Block	3.0m×2.0m×3.0m

4# Anchor Block	
Upstream Tilt	7.21°
Downstream Tilt	17.15°
Elevation of Floor	1406.00m
Elevation of Foundation	1404.20m
Elevation of Penstock Central Point	1405.90m
Size of Anchor Block	3.0m×2.0m×2.5m

5# Anchor Block	
Upstream Tilt	17.15°
Downstream Tilt	11.61°
Elevation of Floor	1389.00m
Elevation of Foundation	1386.80m
Elevation of Penstock Central Point	1388.30m
Size of Anchor Block	3.0m×2.0m×2.5m

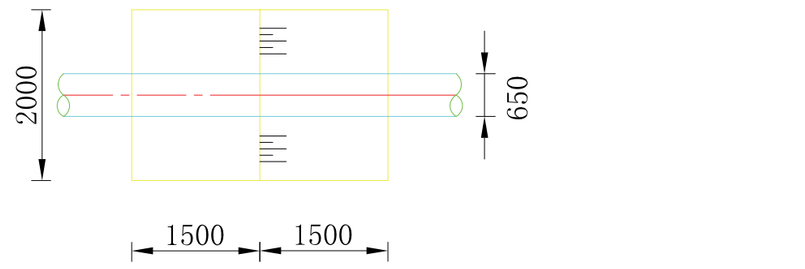
6# Anchor Block	
Upstream Tilt	11.61°
Downstream Tilt	0°
Elevation of Floor	1373.50m
Elevation of Foundation	1370.00m
Elevation of Penstock Central Point	1371.10m
Size of Anchor Block	6.3m×(2.5m+7m)/2×2.0m

Vertical Section of Anchor Block (Typical Design)

1:100

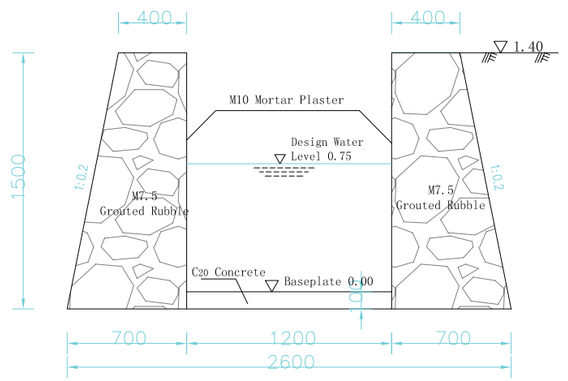
Horizontal Section of Anchor Block (Typical Design)

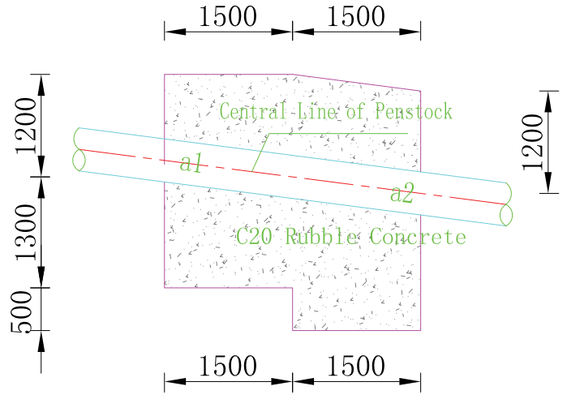
1:100



Horizontal Section of Tailrace

1:50



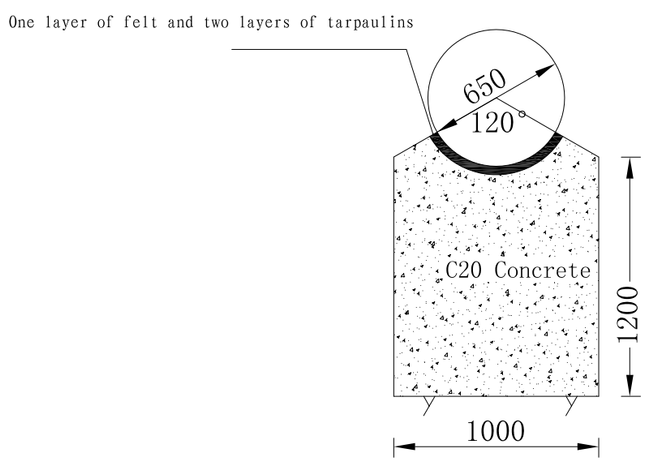


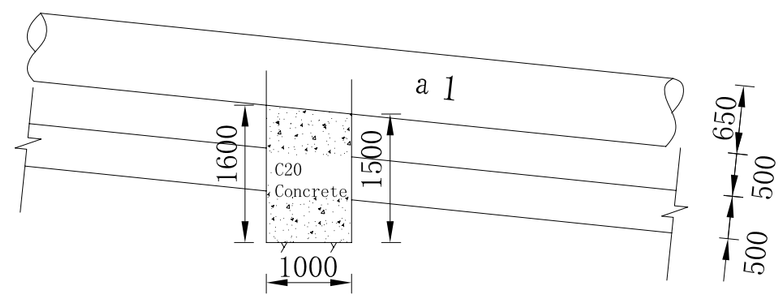
Horizontal Section of Pier

1:100

Vertical Section of Pier

1:100



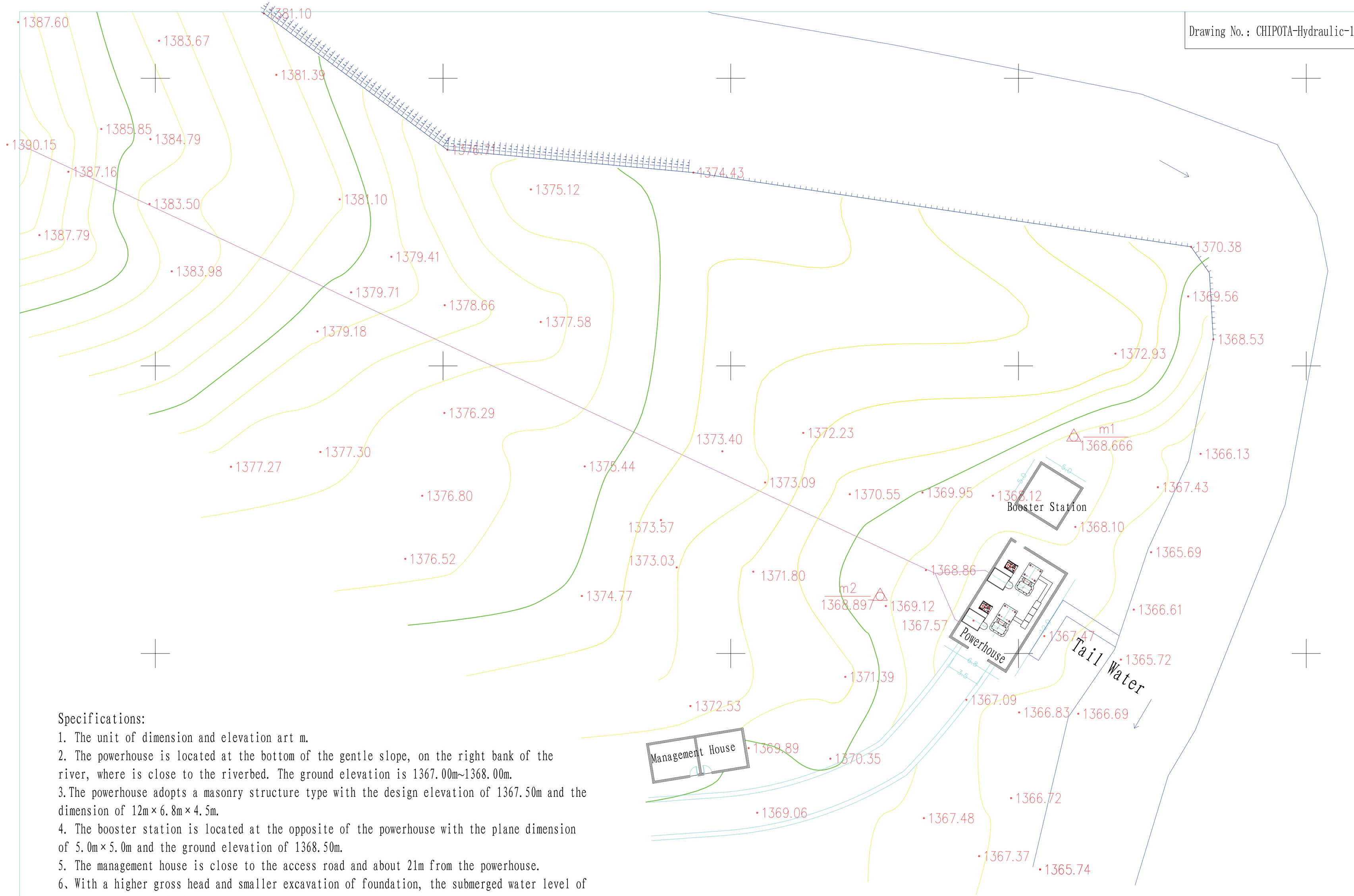


Specifications:

1. The unit of elevation and vertical section dimension is m, and the rest is mm;
2. The coating concrete of anchor block, pier and penstock adopts C20 Concrete. The temperature steel is set on the surface of anchor block;
3. The distance between piers is 5～8m, and a expansion joint is set 1.5m downstream from 1～5# anchor blocks respectively;
4. The foundation of anchor blocks and piers are rocks. If the penstock foundation in excavation section is soil, grouted rubbles of 300mm should be arranged on the bottom for protection;
5. Other constructions should be subject to relevant regulations andd specifications.

Hangzhou Guowang Technology Co., Ltd.	Design Certificate No.	Approval		Examine		Design		CHIPOTA FALLS Station Feasibility Study	Design Diagram of Diversion System (Recommended Plan)	Feasibility Study	Ratio	1:100
				Check		Drawing				Hydraulic	Date	2016.08

Drawing No.: CHIPOTA-Hydraulic-11

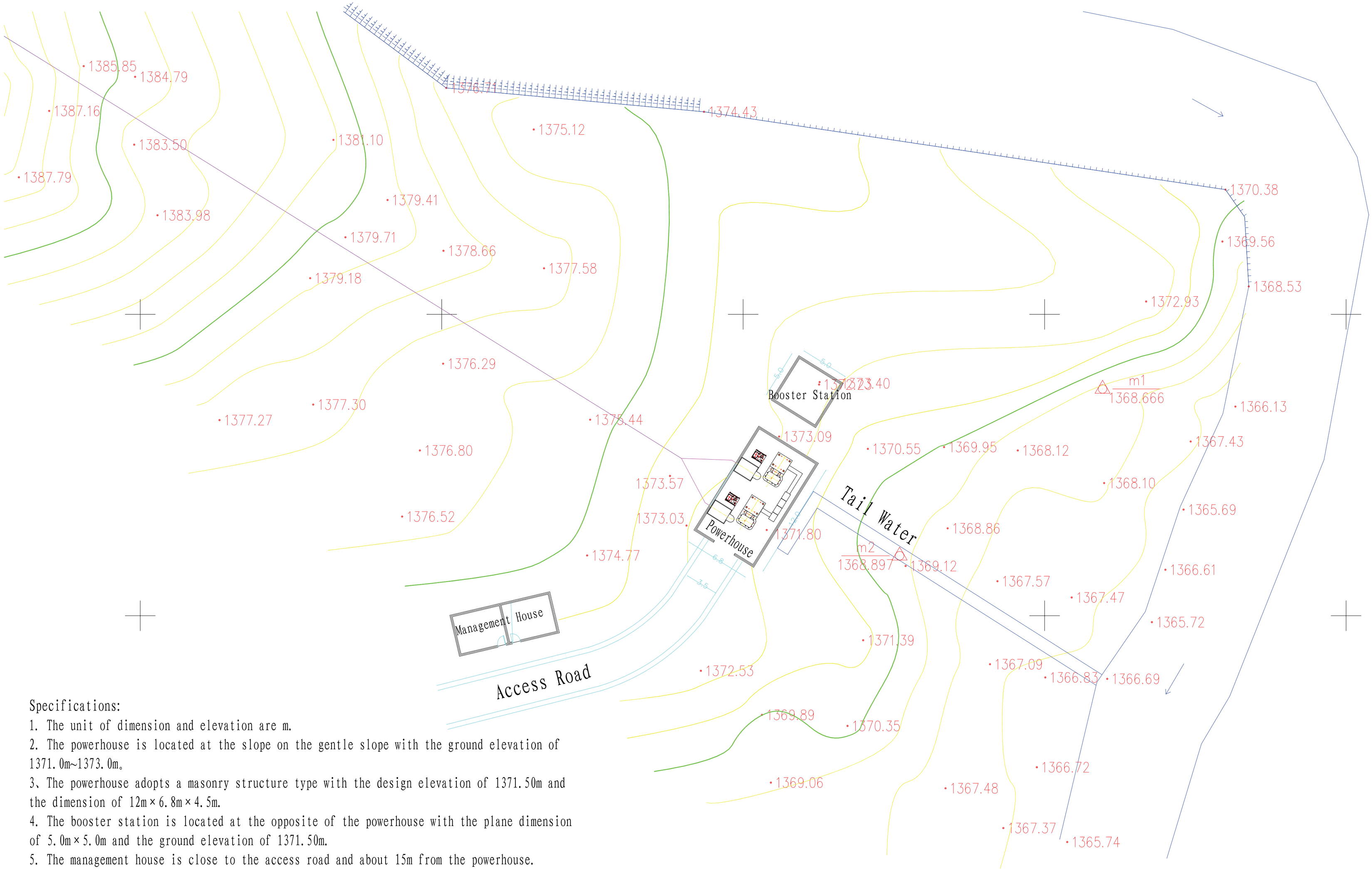


Specifications:

1. The unit of dimension and elevation art m.
2. The powerhouse is located at the bottom of the gentle slope, on the right bank of the river, where is close to the riverbed. The ground elevation is 1367.00m~1368.00m.
3. The powerhouse adopts a masonry structure type with the design elevation of 1367.50m and the dimension of 12m×6.8m×4.5m.
4. The booster station is located at the opposite of the powerhouse with the plane dimension of 5.0m×5.0m and the ground elevation of 1368.50m.
5. The management house is close to the access road and about 21m from the powerhouse.
6、With a higher gross head and smaller excavation of foundation, the submerged water level of river channel is 1359.50m, which will not meet the flood protection demand of powerhouse and booster station.

Hangzhou Guowang Technology Co., Ltd.	Design Certificate No.	Approval		Examine		Design		CHIPOTA FALLS Station Feasibility Study	General Plane Layout of Plant Area (Compared Plan)	Feasibility Study	Ratio	1:50
				Check		Drawing				Hydraulic	Date	2016.08

Drawing No.: CHIPOTA-Hydraulic-12

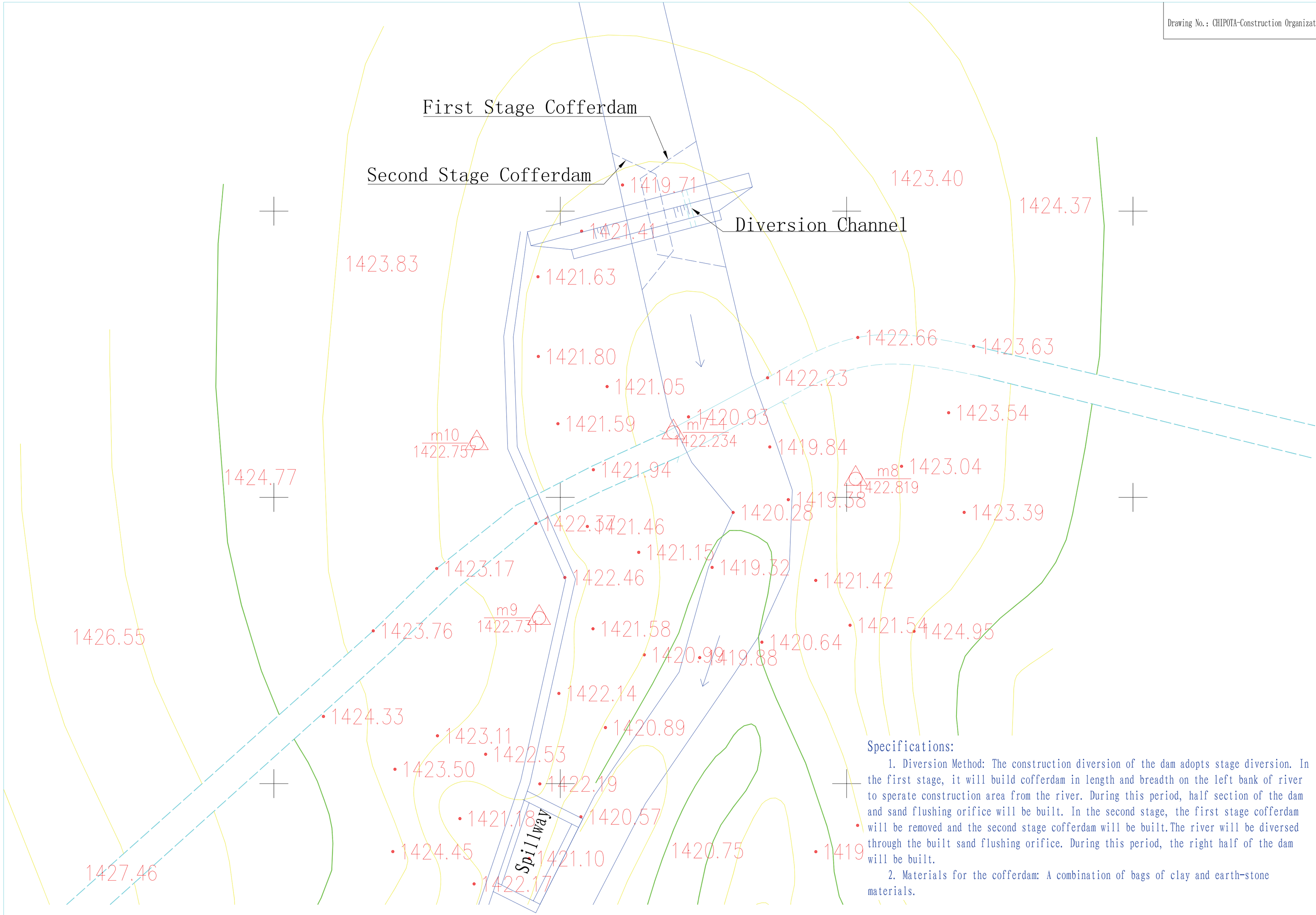


Specifications:

1. The unit of dimension and elevation are m.
2. The powerhouse is located at the slope on the gentle slope with the ground elevation of 1371.0m~1373.0m。
3、The powerhouse adopts a masonry structure type with the design elevation of 1371.50m and the dimension of 12m×6.8m×4.5m.
4. The booster station is located at the opposite of the powerhouse with the plane dimension of 5.0m×5.0m and the ground elevation of 1371.50m.
5. The management house is close to the access road and about 15m from the powerhouse.
6. The buildings in the plant area are close, which helps to construction and transportation of equipments.

Hangzhou Guowang Technology Co., Ltd.	Design Certificate No.	Approval		Examine		Design		CHIPOTA FALLS Station Feasibility Study	General Plane Layout of Plant Area (Recommended Plan)	Feasibility Study	Ratio	1:50
				Check		Drawing				Hydraulic	Date	2016.08

Drawing No.: CHIPOTA-Construction Organization-01



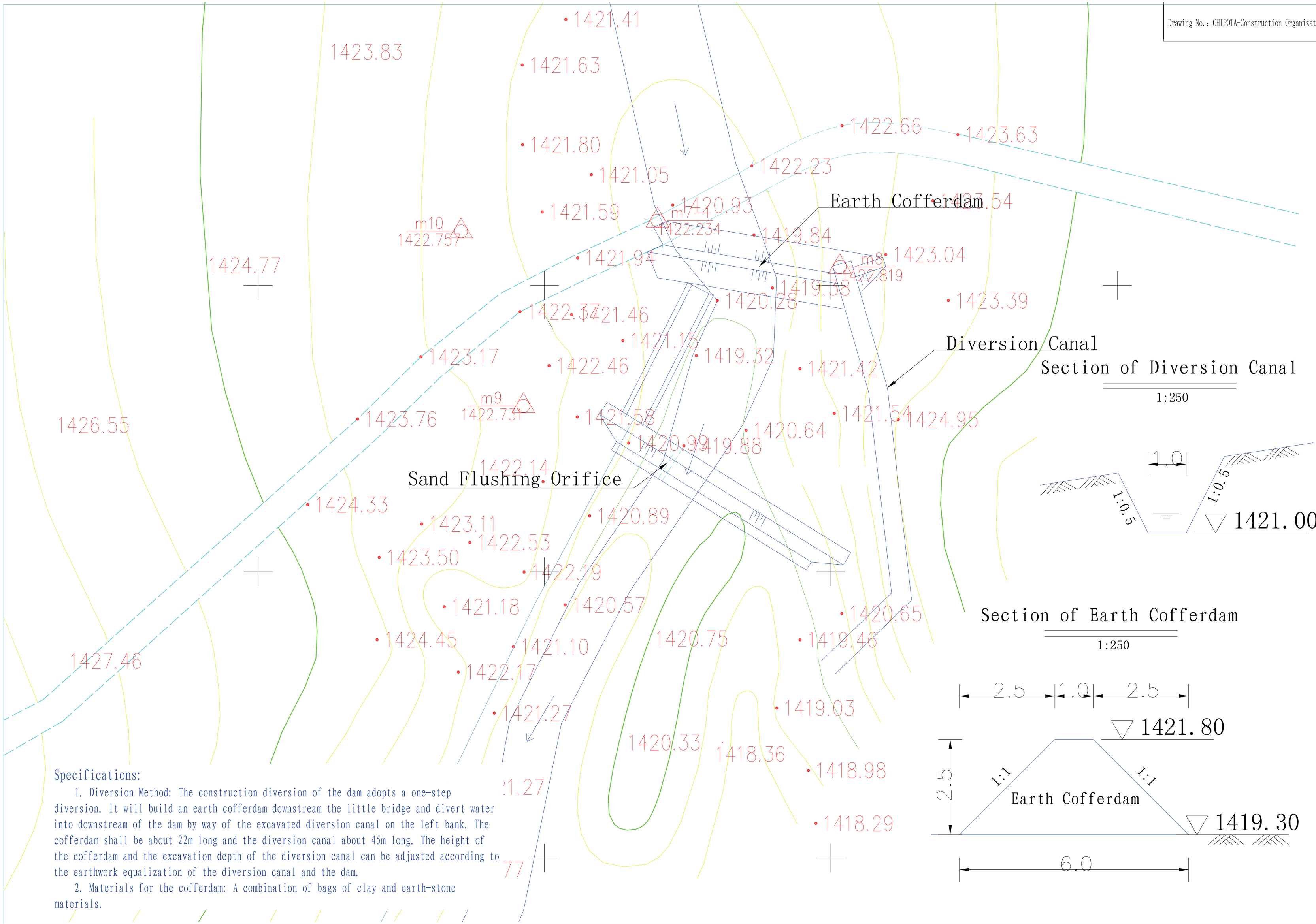
Specifications:

1. Diversion Method: The construction diversion of the dam adopts stage diversion. In the first stage, it will build cofferdam in length and breadth on the left bank of river to sperate construction area from the river. During this period, half section of the dam and sand flushing orifice will be built. In the second stage, the first stage cofferdam will be removed and the second stage cofferdam will be built. The river will be diversed through the built sand flushing orifice. During this period, the right half of the dam will be built.

2. Materials for the cofferdam: A combination of bags of clay and earth-stone materials.

Hangzhou Guowang Technology Co., Ltd.	Design Certificate No.	Approval		Examine		Design		CHIPOTA FALLS Station Feasibility Study	Layout of Construction Diversion (Compared Plan)	Feasibility Study	Ratio	1:50
				Check		Drawing				Hydraulic	Date	2016.08

Drawing No.: CHIPOTA-Construction Organization-02



Section of Diversion Canal

1:250

Section of Earth Cofferdam

1:250

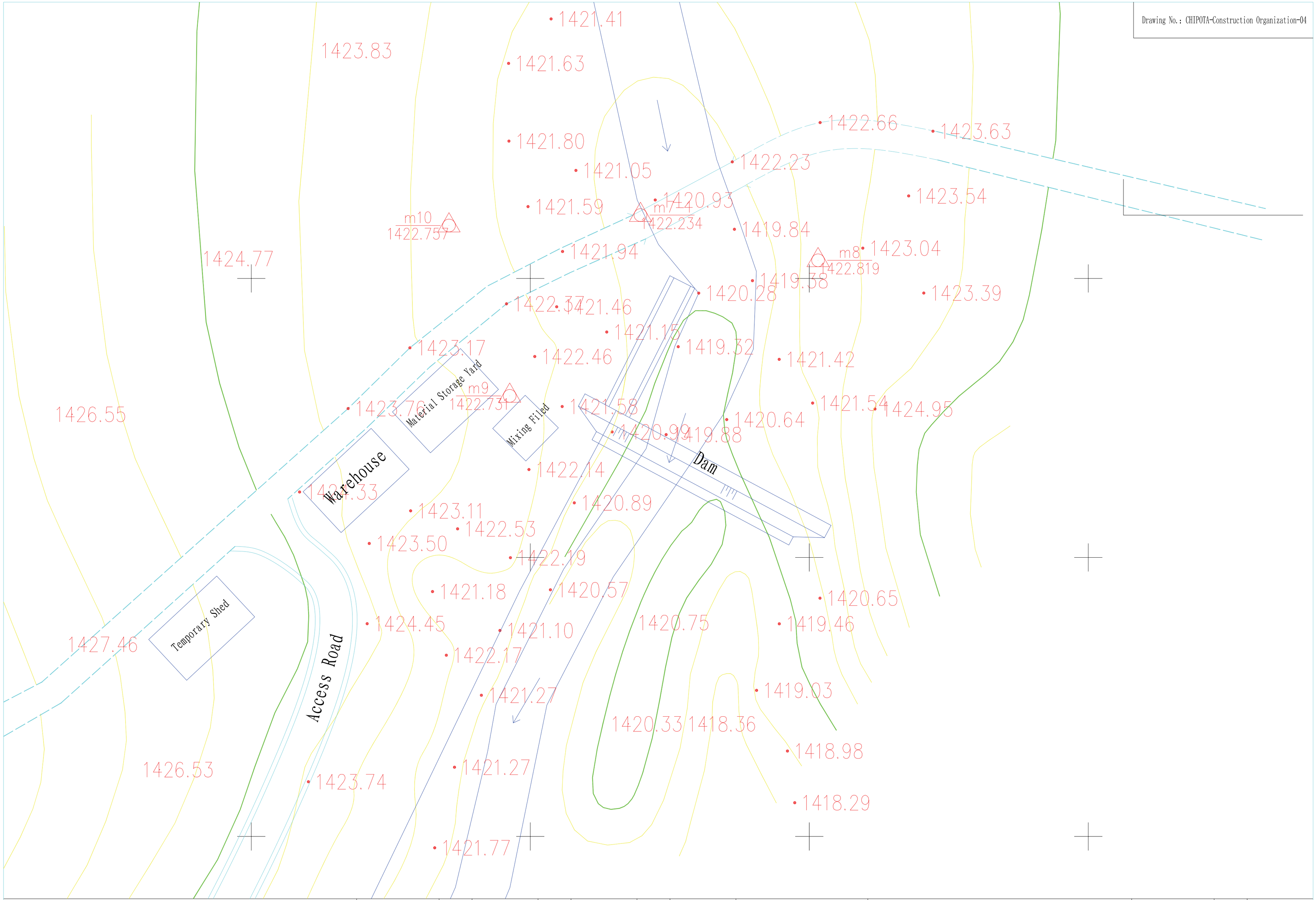
Specifications:

1. Diversion Method: The construction diversion of the dam adopts a one-step diversion. It will build an earth cofferdam downstream the little bridge and divert water into downstream of the dam by way of the excavated diversion canal on the left bank. The cofferdam shall be about 22m long and the diversion canal about 45m long. The height of the cofferdam and the excavation depth of the diversion canal can be adjusted according to the earthwork equalization of the diversion canal and the dam.

2. Materials for the cofferdam: A combination of bags of clay and earth-stone materials.

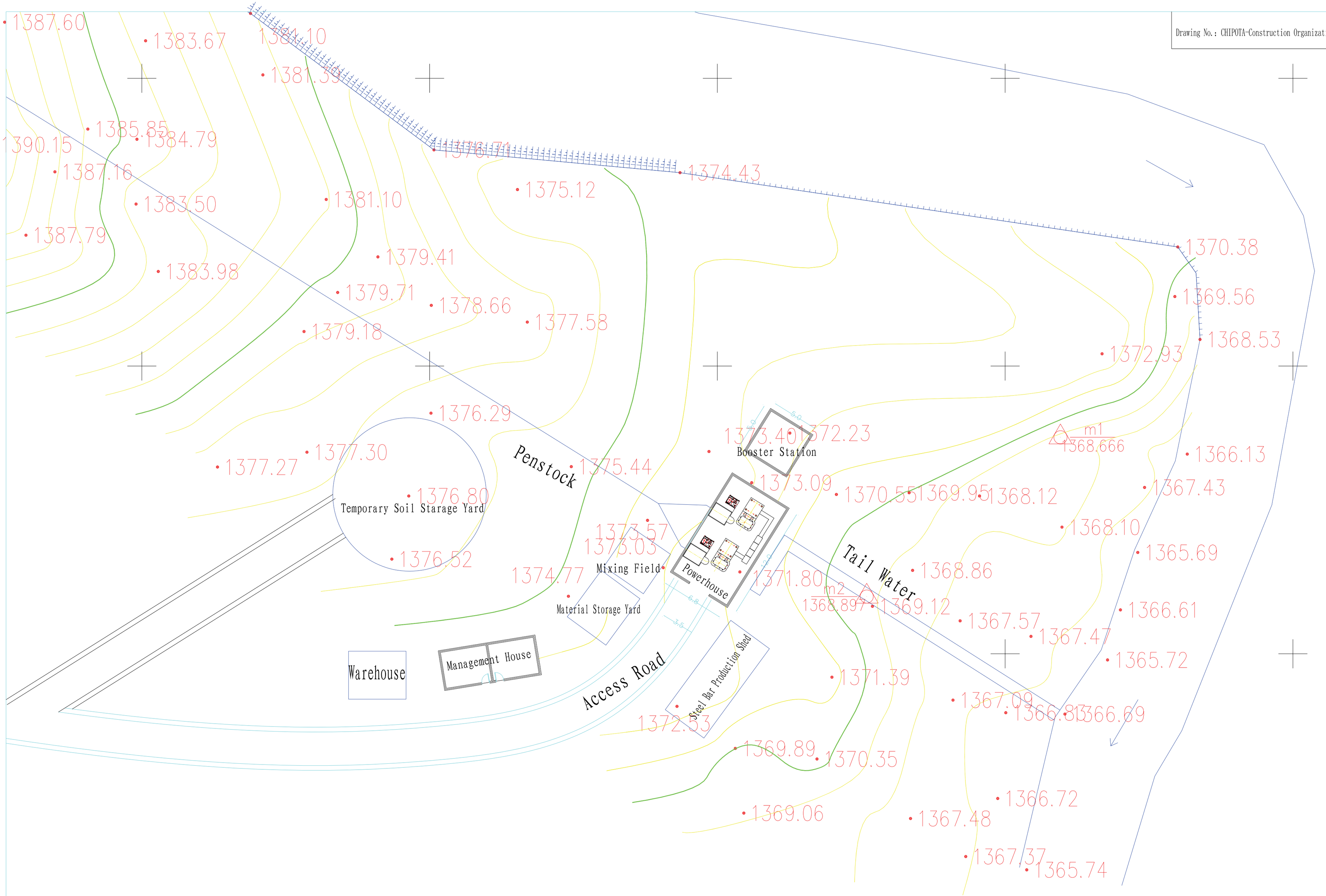
Hangzhou Guowang Technology Co., Ltd.	Design Certificate No.	Approval		Examine		Design		CHIPOTA FALLS Station Feasibility Study	Layout of Construction Diversion (Recommended Plan)	Feasibility Study	Ratio	1:50
				Check		Drawing				Hydraulic	Date	2016.08

Drawing No.: CHIPOTA-Construction Organization-04



Hangzhou Guowang Technology Co., Ltd.	Design Certificate No.	Approval		Examine		Design		CHIPOTA FALLS Station Feasibility Study	Layout of Dam Construction Area (Recommended Plan)	Feasibility Study	Ratio	1:50
				Check		Drawing				Hydraulic	Date	2016.08

Drawing No.: CHIPOTA-Construction Organization-06



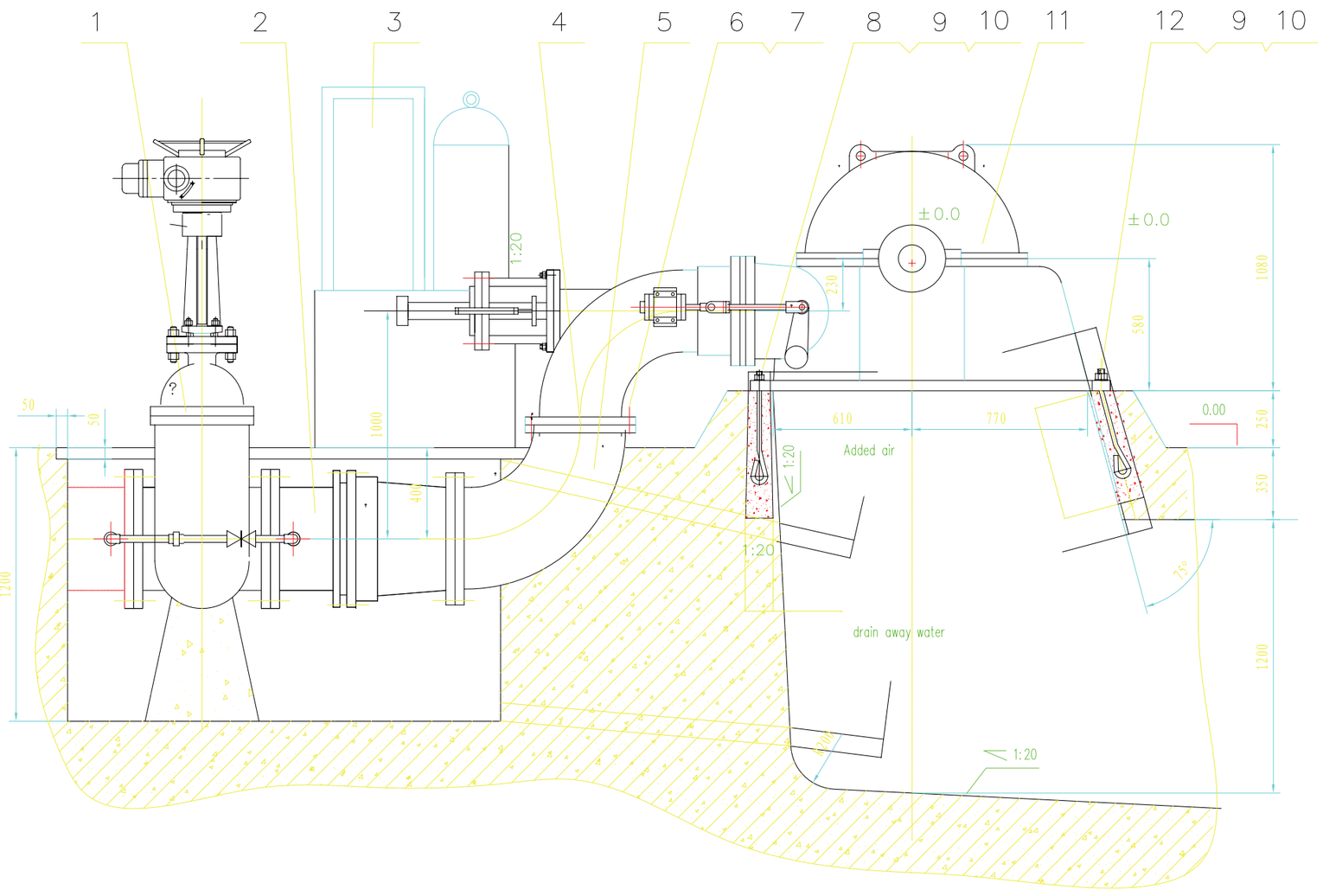
Hangzhou Guowang Technology Co., Ltd.	Design Certificate No.	Approval		Examine		Design		CHIPOTA FALLS Station Feasibility Study	Layout of Dam Construction Area (Recommended Plan)	Feasibility Study	Ratio	1:50
				Check		Drawing				Hydraulic	Date	2016.08

Drawing No.: CHIPOTA-Construction Organization-05

1412.54
1410.06
1399.52
1389.92
1402.77
1409.50
1404.99
1397.46
Warehouse
1403.38
1405.42
1031.28
Material Storage Yard
1408.09
1401.33
Mixing Field
1406.41
4# Anchor Block
1408.06
1407.52
1407.0
1405.97
1256.27
1394.45
1405.71
1402.79
1391.50
1403.87
1402.64
1399.80
1397.23
1394.40
1386.39
1401.66
1399.96
1397.26
1390.23
1383.41
1399.08
1397.36
1392.41
5# Anchor Block
1381.10
1383.67
1381.35
Material Storage Yard
1390.66
Mixing Field
1385.85
1384.79
1390.15
1387.16
1390.59
1381.10
1390.81
1383.50
1387.79
1383.98
1379.18
Construction Road
Access Road

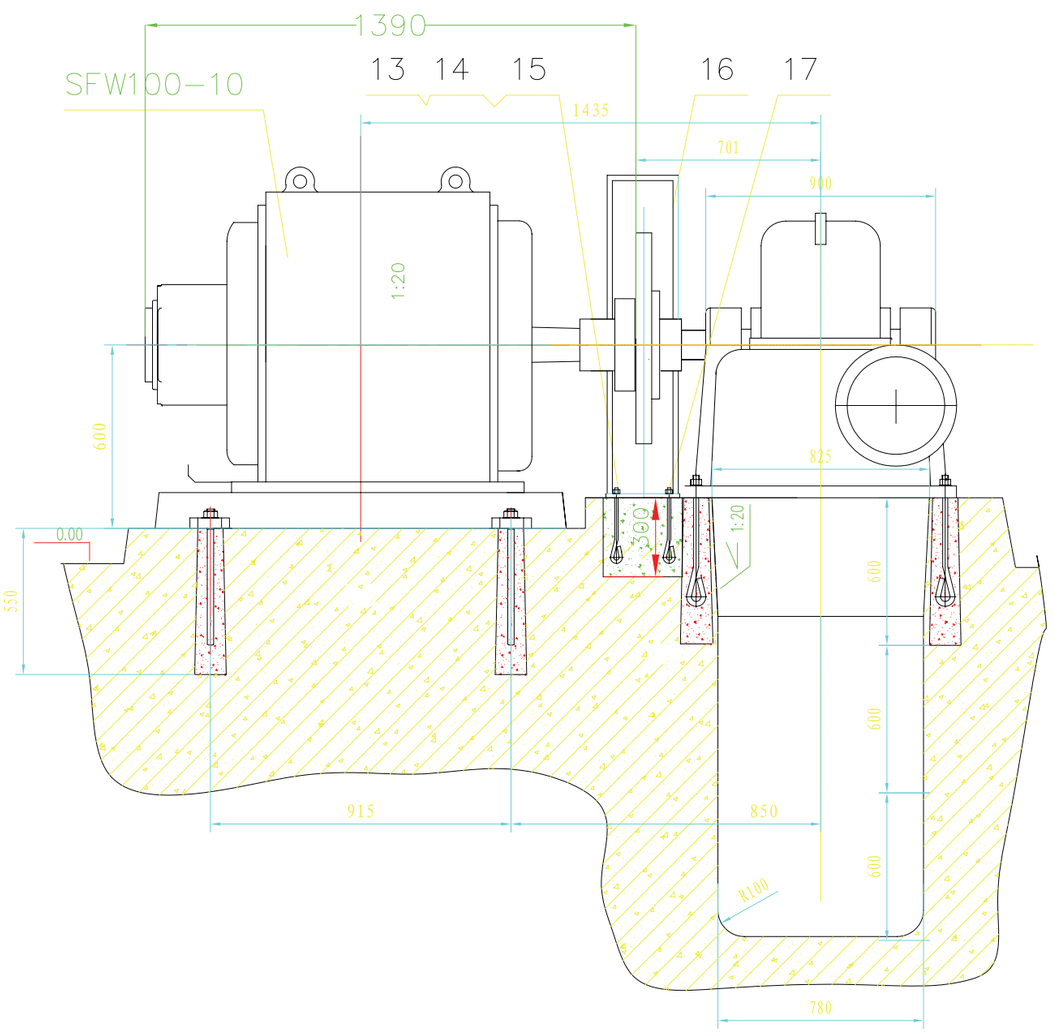
Hangzhou Guowang Technology Co., Ltd.	Design Certificate No.	Approval		Examine		Design		CHIPOTA FALLS Station Feasibility Study	Layout of Penstock Construction Area (Recommended Plan)	Feasibility Study	Ratio	1:50
				Check		Drawing				Hydraulic	Date	2016.08

图号：CHIPOTA--水工--14



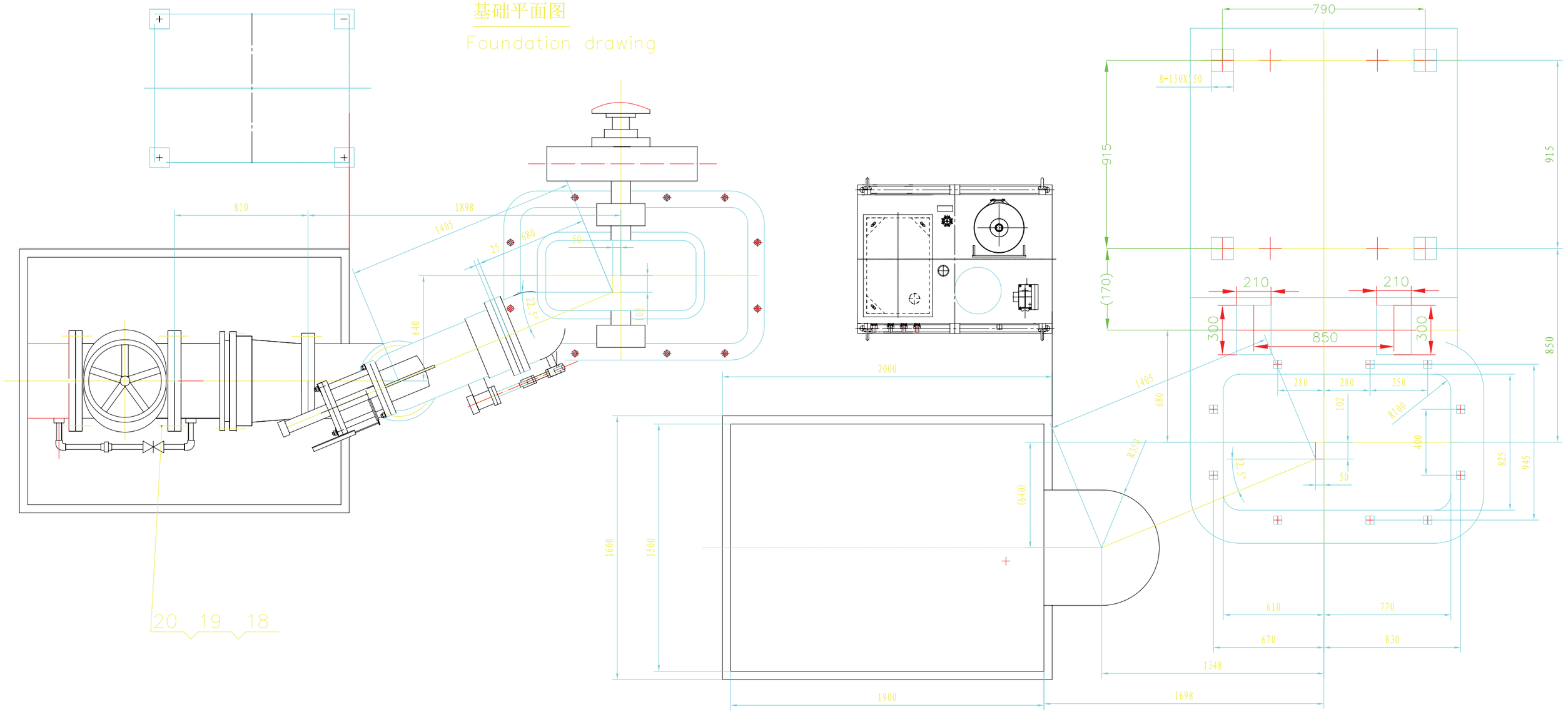
基础平面图

Foundation drawing



基础平面图

Foundation drawing



技术要求

1. 本图供电站水轮机组安装布置参考之用，土建工程电站考虑.

2阀门在电站安装时，水泥支撑要求和闸阀接触紧密，不允许闸阀自重而下降.

3. 泄水渠表面要求平整光滑，在每秒二米的水流冲刷下无脱层现象.

4发电机的控制柜和复励装置的安装位置请电站自行安排。

Technical Requirment

1 .This arrangement drawing is for your reference only on the arrangement of the turbine at a station and the civil engineering should be designed by user;

2. When mountage of the valve , the contact between the valve and the concrete buttress should be kept tight and the sinking caused by itself weight is not allowable;

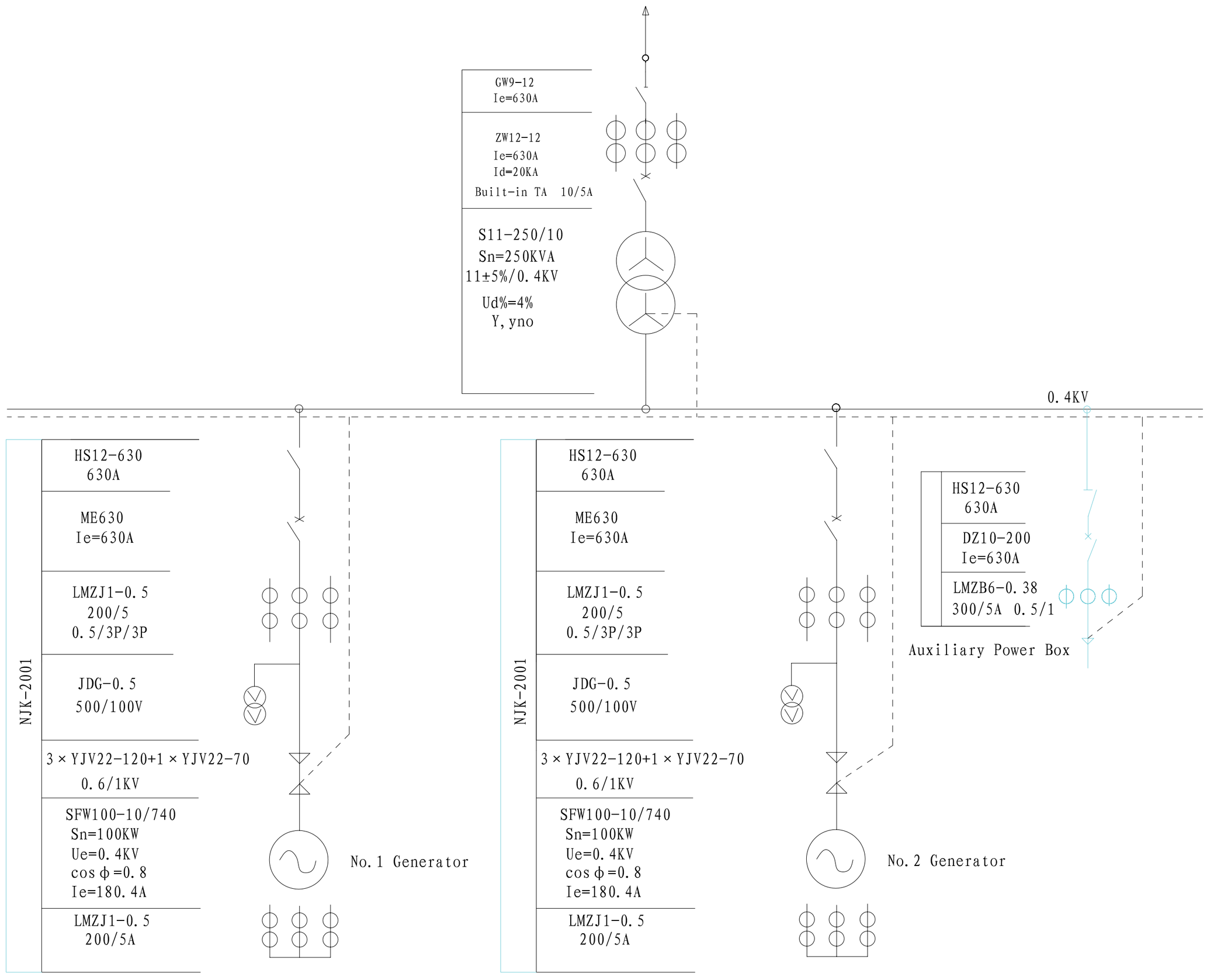
3. The surface of tail channel is smooth and plane , it should be scoured without peeling off on condition that velocity of 2m/sec;

4. The installation positions for the generator switchboard and the compound exciter should be arranged by costomers themselves.

序号 NO	代号 Code name	名称 name	数量 Quantity	材料 Material	备注 Remarks
20	GB97.1-85	垫圈 30 Washer	32	Q235-A	
19	GB6170-86	螺母 M30 Nut	32	Q235-A	
18	GB5782-86	螺栓 M30×120 Bolt	32	Q235-A	
17	11XJCY46.08.00	刹车装置	1		
16	11XJCY46.06.00	飞轮罩装配 Flywheel hood	1	Q235-A	
15	GB97.1-85	垫圈 16 Washer	8	Q235-A	
14	GB6170-86	螺母 M16 Nut	8	Q235-A	
13	GB799-88	地脚螺栓 M16×300 Foundation bolt	1	Q235-A	
12	TX05.00.04	地脚螺栓 M24×400 Foundation bolt	2	Q235-A	GB799-88
11	16CJWT46.01.00	水轮机装配 Turbine assembly	1		
10	GB97.1-85	垫圈 24 Washer	10	Q235-A	
9	GB6170-86	螺母 M24 Nut	10	Q235-A	
8	GB799-88	地脚螺栓 M24×500 Foundation bolt	8	Q235-A	
7	GB6170-86	螺母 M22 Nut	16	Q235-A	
6	GB5782-86	螺栓 M22×110 Bolt	16	Q235-A	
5	78ZX50-001	进水弯管 Conduit elbow	1	QT500-7	
4	78ZX50-002	密封垫 Spacer	1		
3	CJWT-1/4-4.0	调速器 Governor	1		
2	78ZX50-L00A	伸缩节装配 Expansion joint assembly	1		
1	Z941H-1.0	阀门 1.0MPa DN400 valve	1		

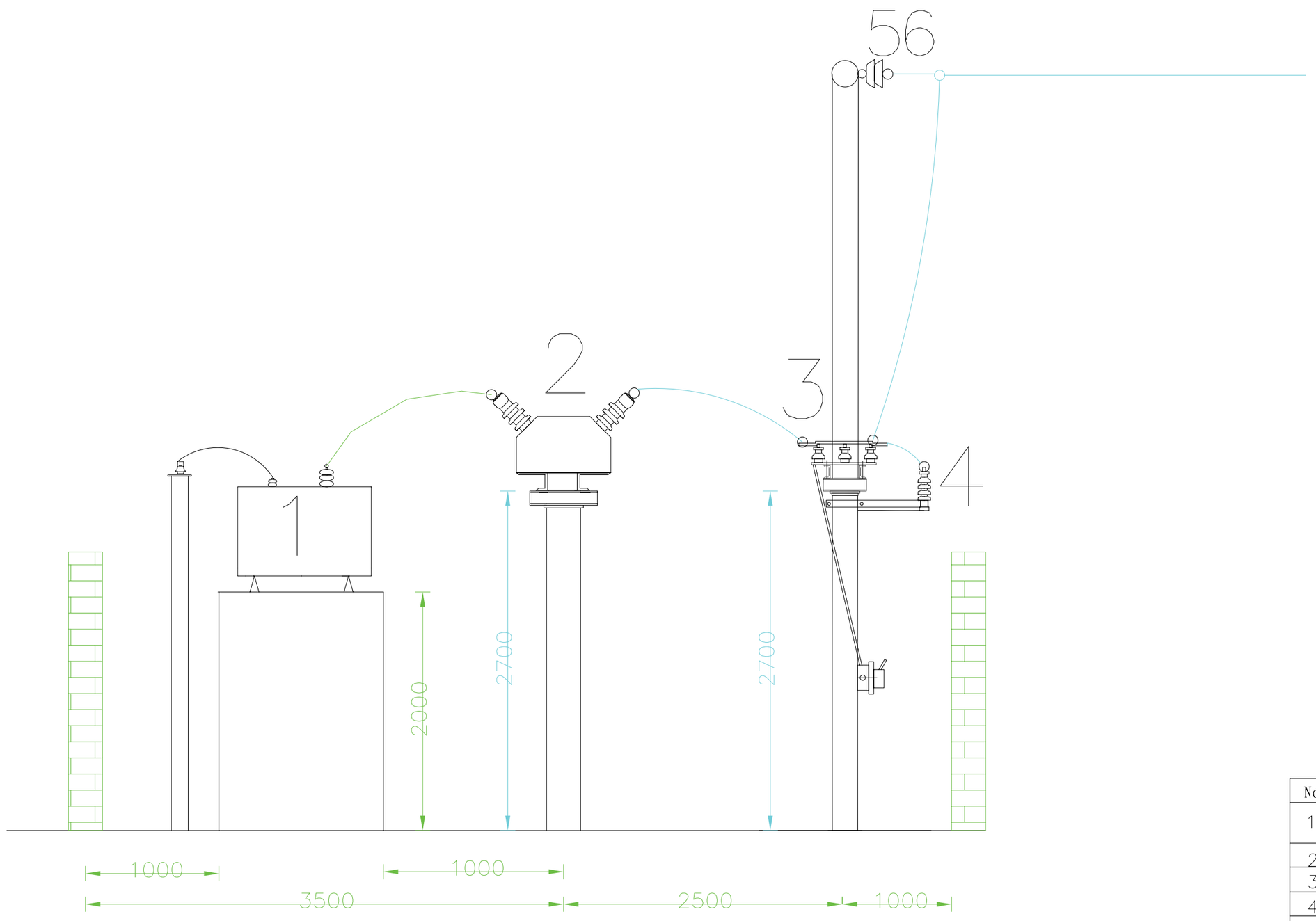
杭州国望科技有限公司	设计证号	审定		审查		设计		CHIPOTA水电站 可行性研究	XJA-W-46/1×11水轮机组布置图 Installation Drawing of the set	初设阶段	比例	1:100
				校核		制图				水工部分	日期	2016.08

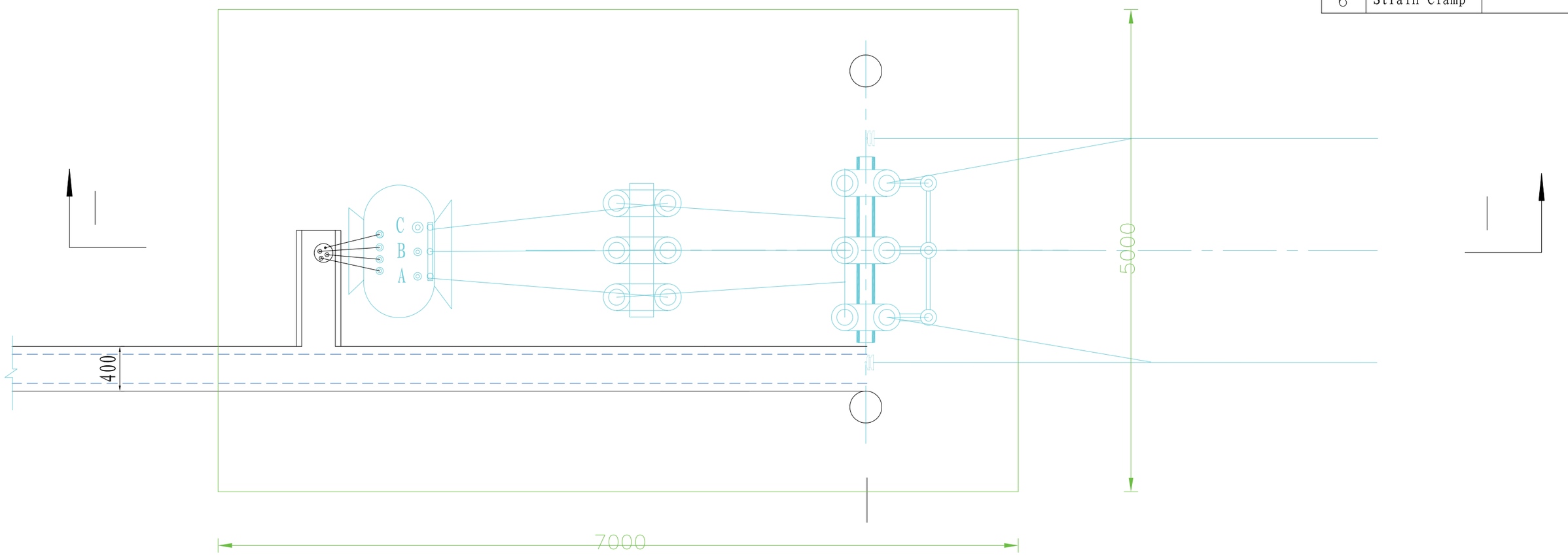
Drawing No.: CHIPOTA--Electric--03



Hangzhou Guowang Technology Co., Ltd.	Design Certificate No.	Approval		Examine		Design		CHIPOTA FALLS Station Feasibility Study	Main Electrical Connection Diagram	Feasibility Study	Ratio	1:50
				Check		Drawing				Electric	Date	2016.08

Drawing No.: CHIPOTA--Electric--02





List of Equipments and Materials

No.	Item	Specification	Unit	Quantity	Remarks
1	Transformer	S11-250/10 10±2×2.5%/0.4KV Y, yno U_Z%=4.5	Set	1	
2	Circuit Breaker	ZW8-12/630, 630A	Set	1	
3	Insulation Switch	GW1-10/630A	Gruop	3	
4	lightening Arrester	Y5W-12.7/42	Set	3	
5	Insulation Strings	2×(XP-4.5)	String	3	
6	Strain Clamp	NLD-1	Couple	3	

Hangzhou Guowang Technology Co., Ltd.	Design Certificate No.	Approval		Examine		Design		CHIPOTA FALLS Station Feasibility Study	Plane and Section of Booster Station	Feasibility Study	Ratio	1:50
				Check		Drawing				Electric	Date	2016.08

Hangzhou Guowang Technology Co., Ltd.

Design Certificate No.

Approval

Check | Examine

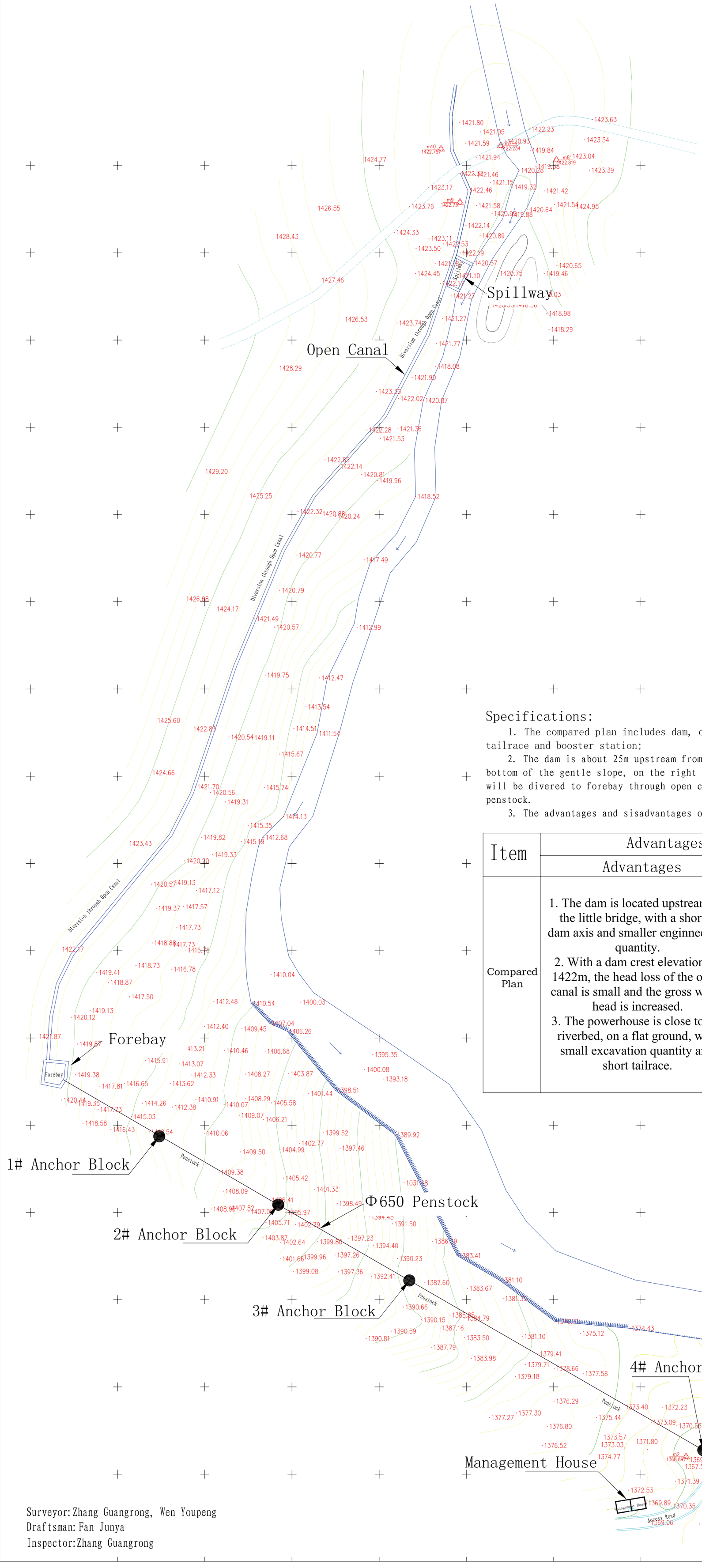
Drawing | Design

CHIPOTA FALLS Station
Feasibility Study

Plane Layout of CHIPOTA FALLS Station
(Compared Plan)

Hydraulic | Preliminary Design

Date 2016.08 | Ratio 1:100



Specifications:

1. The compared plan includes dam, open canal, forebay, penstock, powerhouse, tailrace and booster station;

2. The dam is about 25m upstream from the bridge, and the powerhouse is at the bottom of the gentle slope, on the right bank of bottom of 4th cascade. The water will be divered to forebay through open canal, and then to powerhouse through penstock.

3. The advantages and sisadvantages of the compared plan listed below:

Item	Advantages and Disadvantages	
	Advantages	Disadvantages
Compared Plan	1. The dam is located upstream of the little bridge, with a shorter dam axis and smaller enginneering quantity. 2. With a dam crest elevation of 1422m, the head loss of the open canal is small and the gross water head is increased. 3. The powerhouse is close to the riverbed, on a flat ground, with small excavation quantity and short tailrace.	1. Because the dam is located upstream of the little bridge, the diversion engineering shall be lengthened, which will go across the road, leading to an increase of engineering quantities, a more difficult construction and construction diversion. 2. An open canal occupies a larger area. A greater amount of excavation and abandoned slags are liable to cause soil erosion and damage to the ecological environment. The construction of the open canal needs a large quantity of aggregates and the forebay needs to be built at the end of open canal, so the construction period will be longer. 3. The ground elevation of the powerhouse is lower which does not meet the flood protection requirement and will influence the safety.

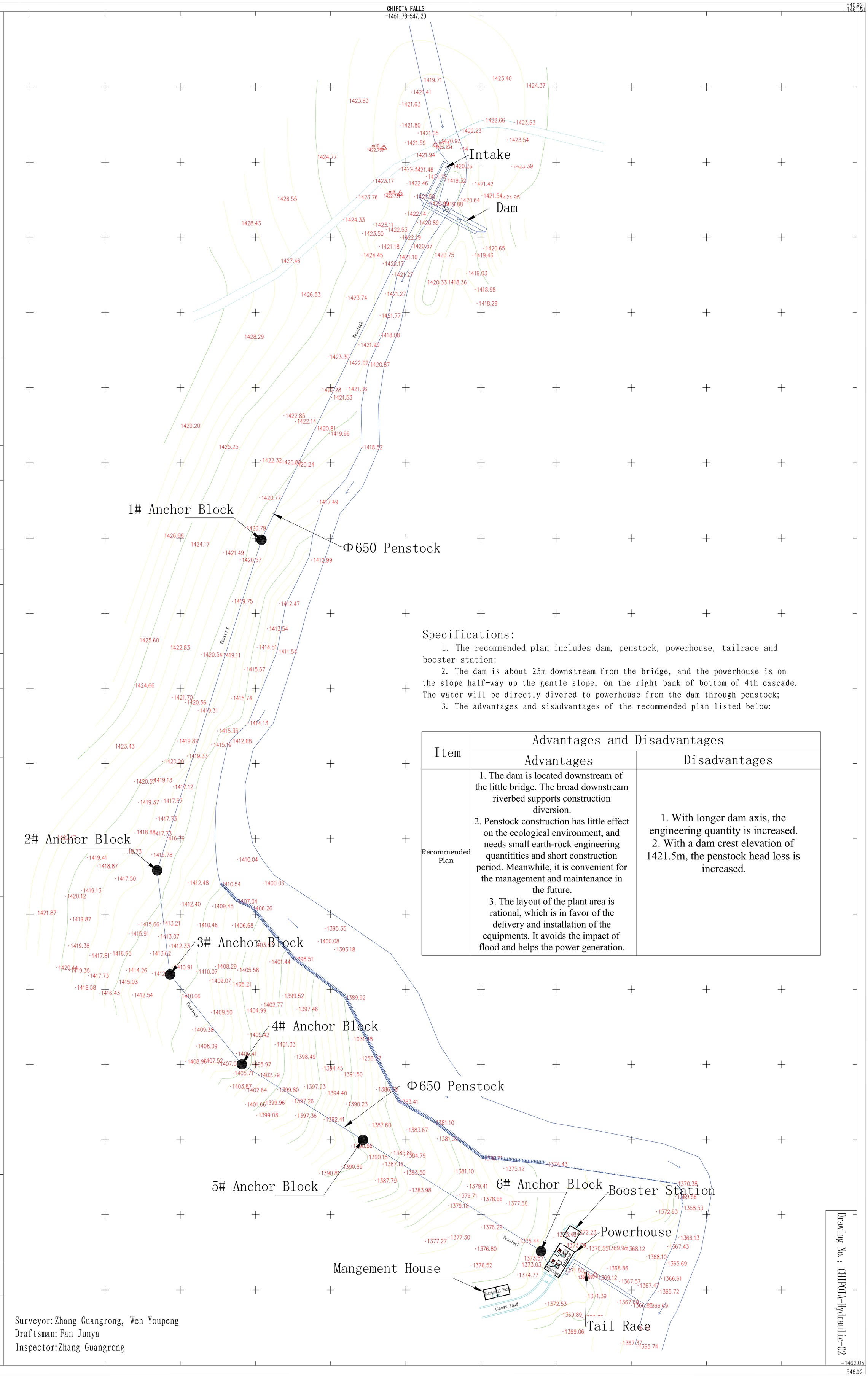
Surveyor: Zhang Guangrong, Wen Youpeng
Draftsman: Fan Junya
Inspector: Zhang Guangrong

Drawing No.: CHIPOTA-Hydraulic-01

546.56
-1461.51

CHIPOTA FALLS
-1461.78-547.20

546.92
-1461.51



Specifications:

1. The recommended plan includes dam, penstock, powerhouse, tailrace and booster station;
2. The dam is about 25m downstream from the bridge, and the powerhouse is on the slope half-way up the gentle slope, on the right bank of bottom of 4th cascade. The water will be directly divered to powerhouse from the dam through penstock;
3. The advantages and sisadvantages of the recommended plan listed below:

Item	Advantages and Disadvantages	
	Advantages	Disadvantages
Recommended Plan	1. The dam is located downstream of the little bridge. The broad downstream riverbed supports construction diversion. 2. Penstock construction has little effect on the ecological environment, and needs small earth-rock engineering quantitities and short construction period. Meanwhile, it is convenient for the management and maintenance in the future. 3. The layout of the plant area is rational, which is in favor of the delivery and installation of the equipments. It avoids the impact of flood and helps the power generation.	1. With longer dam axis, the engineering quantity is increased. 2. With a dam crest elevation of 1421.5m, the penstock head loss is increased.

Hangzhou Guowang Technology Co., Ltd.

Design Certificate No.

Approval

Examine

Check

Design

Drawing

CHIPOTA FALLS Station
Feasibility Study

Plane Layout of CHIPOTA FALLS Station
(Recommended Plan)

Preliminary Design

Hydraulic

Ratio 1:100

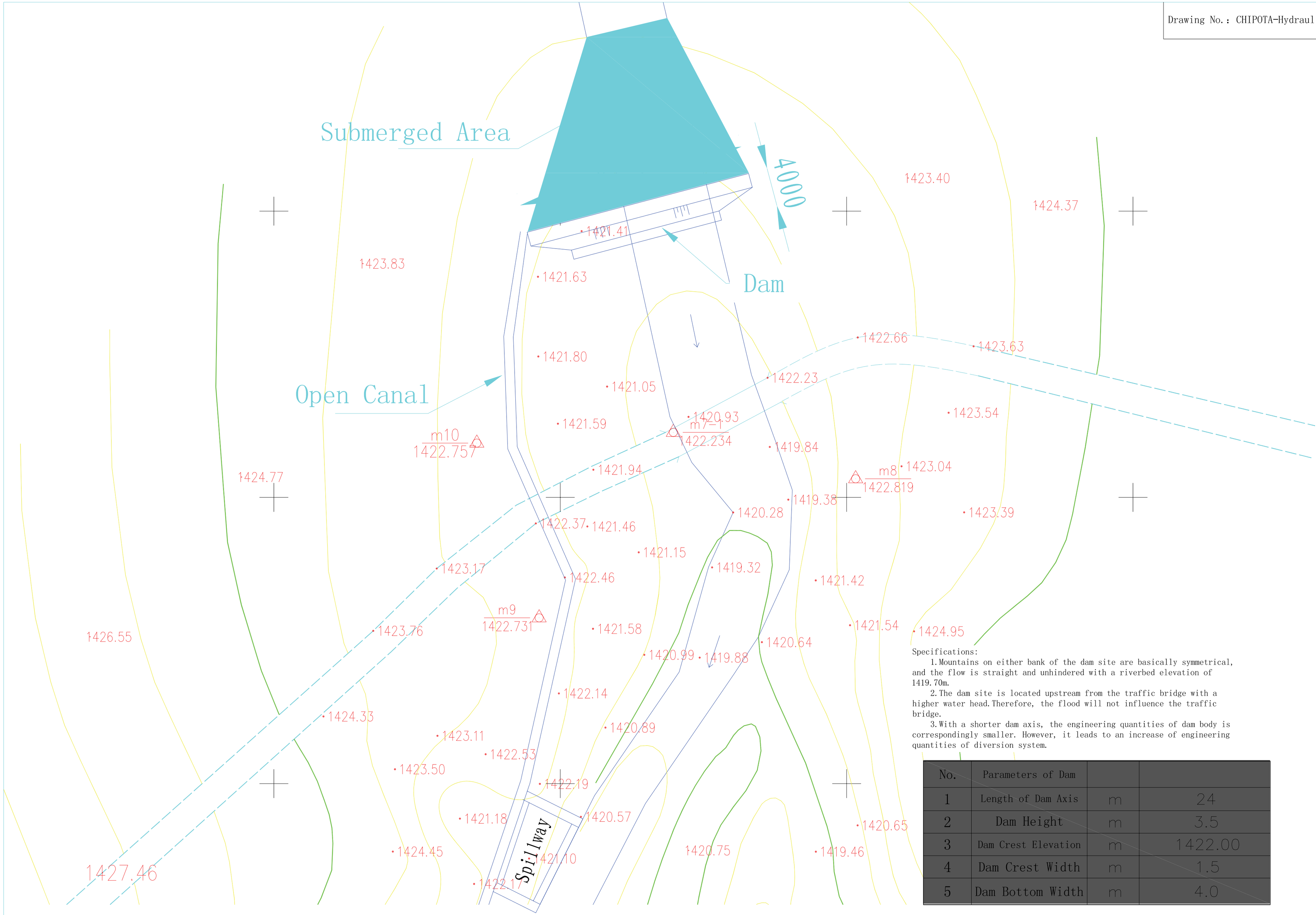
Date 2016.08

Surveyor: Zhang Guangrong, Wen Youpeng
Draftsman: Fan Junya
Inspector: Zhang Guangrong

Drawing No.: CHIPOTA-Hydraulic-02

-1462.05
546.92

Drawing No.: CHIPOTA-Hydraulic-03



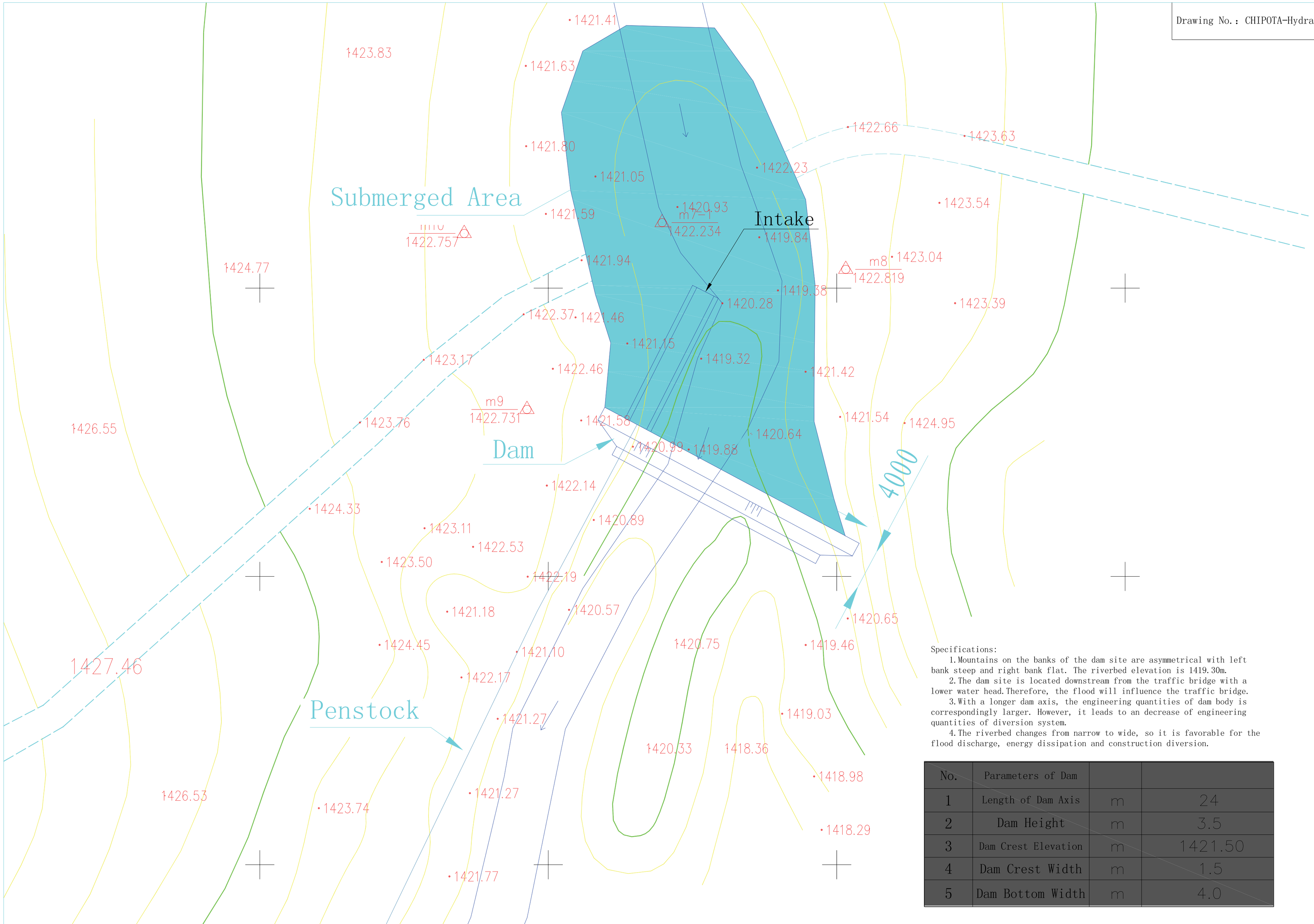
Specifications:

1. Mountains on either bank of the dam site are basically symmetrical, and the flow is straight and unhindered with a riverbed elevation of 1419.70m.
2. The dam site is located upstream from the traffic bridge with a higher water head. Therefore, the flood will not influence the traffic bridge.
3. With a shorter dam axis, the engineering quantities of dam body is correspondingly smaller. However, it leads to an increase of engineering quantities of diversion system.

No.	Parameters of Dam		
1	Length of Dam Axis	m	24
2	Dam Height	m	3.5
3	Dam Crest Elevation	m	1422.00
4	Dam Crest Width	m	1.5
5	Dam Bottom Width	m	4.0

Hangzhou Guowang Technology Co., Ltd.	Design Certificate No.	Approval		Examine		Design		CHIPOTA FALLS Station Feasibility Study	Plane Layout of Dam (Compared Plan)	Feasibility Study	Ratio	1:50
				Check		Drawing				Hydraulic	Date	2016.08

Drawing No.: CHIPOTA-Hydraulic-04



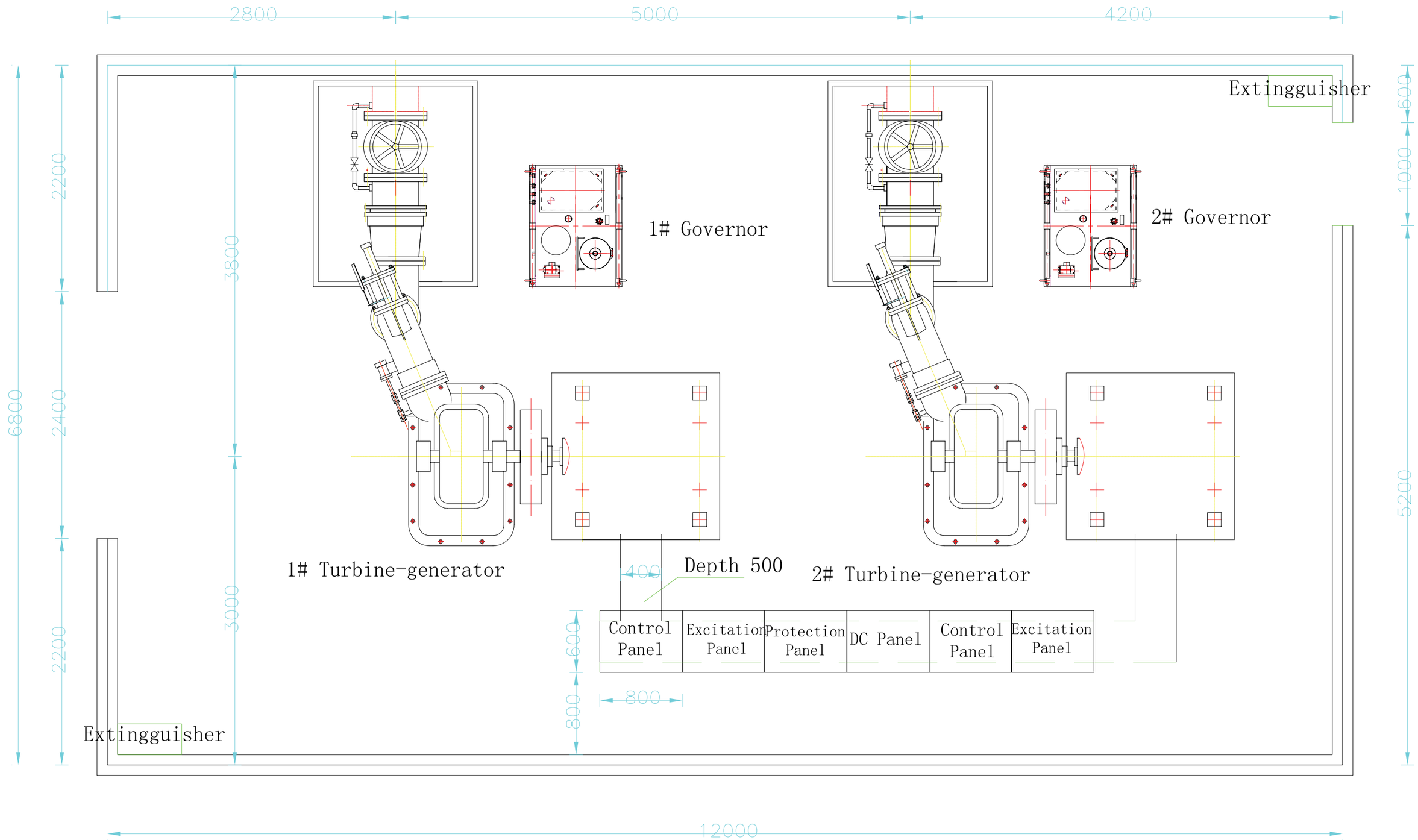
Specifications:

1. Mountains on the banks of the dam site are asymmetrical with left bank steep and right bank flat. The riverbed elevation is 1419.30m.
2. The dam site is located downstream from the traffic bridge with a lower water head. Therefore, the flood will influence the traffic bridge.
3. With a longer dam axis, the engineering quantities of dam body is correspondingly larger. However, it leads to an decrease of engineering quantities of diversion system.
4. The riverbed changes from narrow to wide, so it is favorable for the flood discharge, energy dissipation and construction diversion.

No.	Parameters of Dam		
1	Length of Dam Axis	m	24
2	Dam Height	m	3.5
3	Dam Crest Elevation	m	1421.50
4	Dam Crest Width	m	1.5
5	Dam Bottom Width	m	4.0

Hangzhou Guowang Technology Co., Ltd.	Design Certificate No.	Approval		Examine		Design		CHIPOTA FALLS Station Feasibility Study	Plane Layout of Dam (Recommended Plan)	Feasibility Study	Ratio	1:50
				Check		Drawing				Hydraulic	Date	2016.08

Drawing No.: CHIPOTA--Electric--01



Specification:

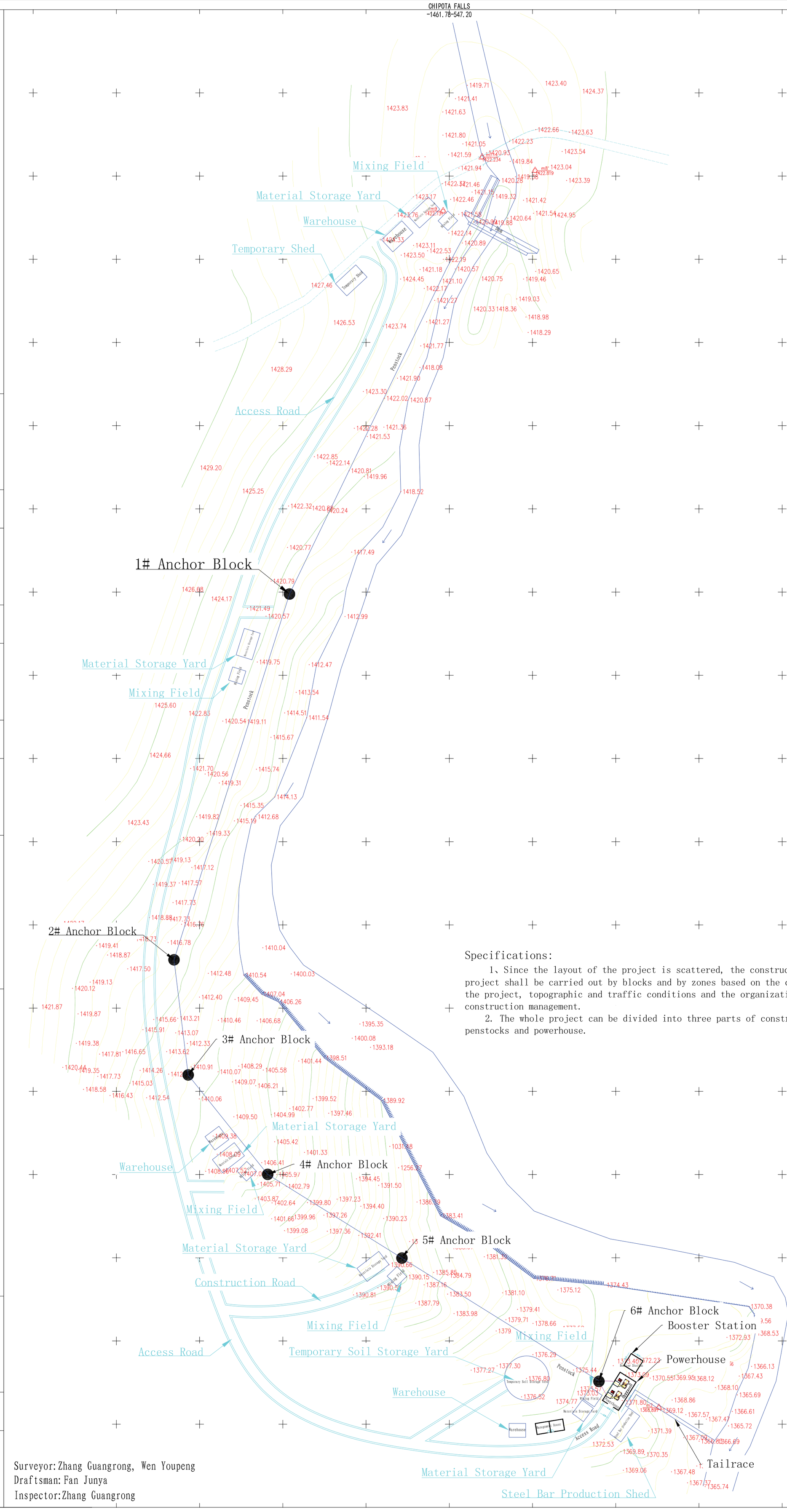
1. The unit of elevation is m, and the rest is mm;
2. Two sets of turbine-generators are installed in the powerhouse. The type of turbine is XJA-W-46/1×11, and the type of generator is SFW100-10/740. The installation elevation of turbine is 1372.33m;
3. The dimension of turbine pit should be subject to the installation diagram from manufacturer.

Hangzhou Guowang Technology Co., Ltd.	Design Certificate No.	Approval		Examine		Design		CHIPOTA FALLS Station Feasibility Study	Plane Layout of Electromechanical Equipments	Feasibility Study	Ratio	1:50
				Check		Drawing				Electric	Date	2016.08

546.56
-1461.51

CHIPOTA FALLS
-1461.78-547.20

546.92
-1461.51



Specifications:

1、Since the layout of the project is scattered, the construction of the project shall be carried out by blocks and by zones based on the characteristics of the project, topographic and traffic conditions and the organization form of construction management.

2. The whole project can be divided into three parts of construction zones: dam, penstocks and powerhouse.

Surveyor: Zhang Guangrong, Wen Youpeng
Draftsman: Fan Junya
Inspector: Zhang Guangrong

Hangzhou Guowang Technology Co., Ltd.

Design Certificate No.	
Approval	
Check	Examine
Drawing	Design

CHIPOTA FALLS Station
Feasibility Study

Plane Layout of General Construction
(Recommended Plan)

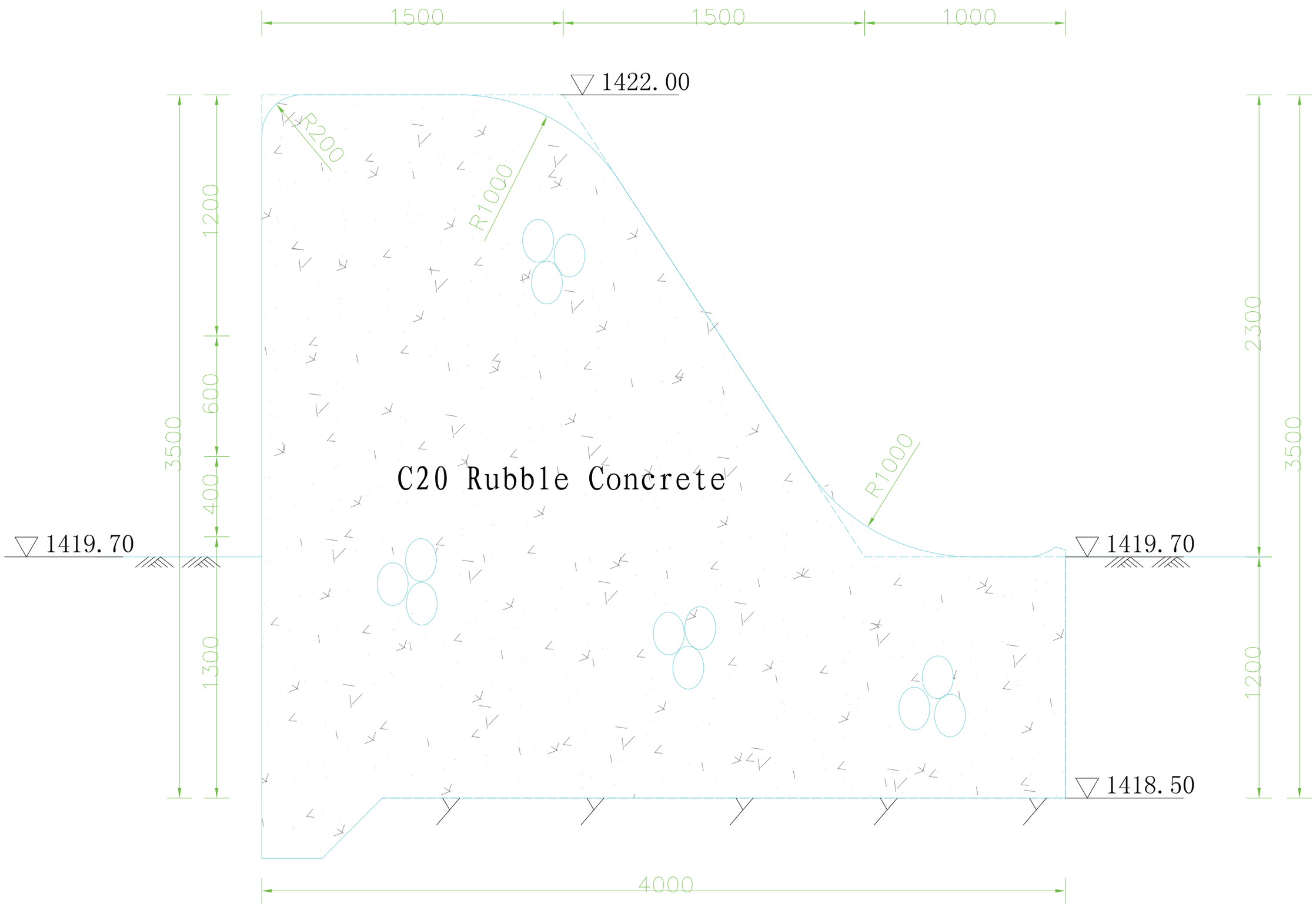
Hydraulic	Feasibility Study
Date	Ratio
2016.08	1:100

Drawing No.: CHIPOTA-Construction Organization-03

-1462.05
546.56

-1462.05
546.92

Drawing No.: CHIPOTA-Hydraulic-06



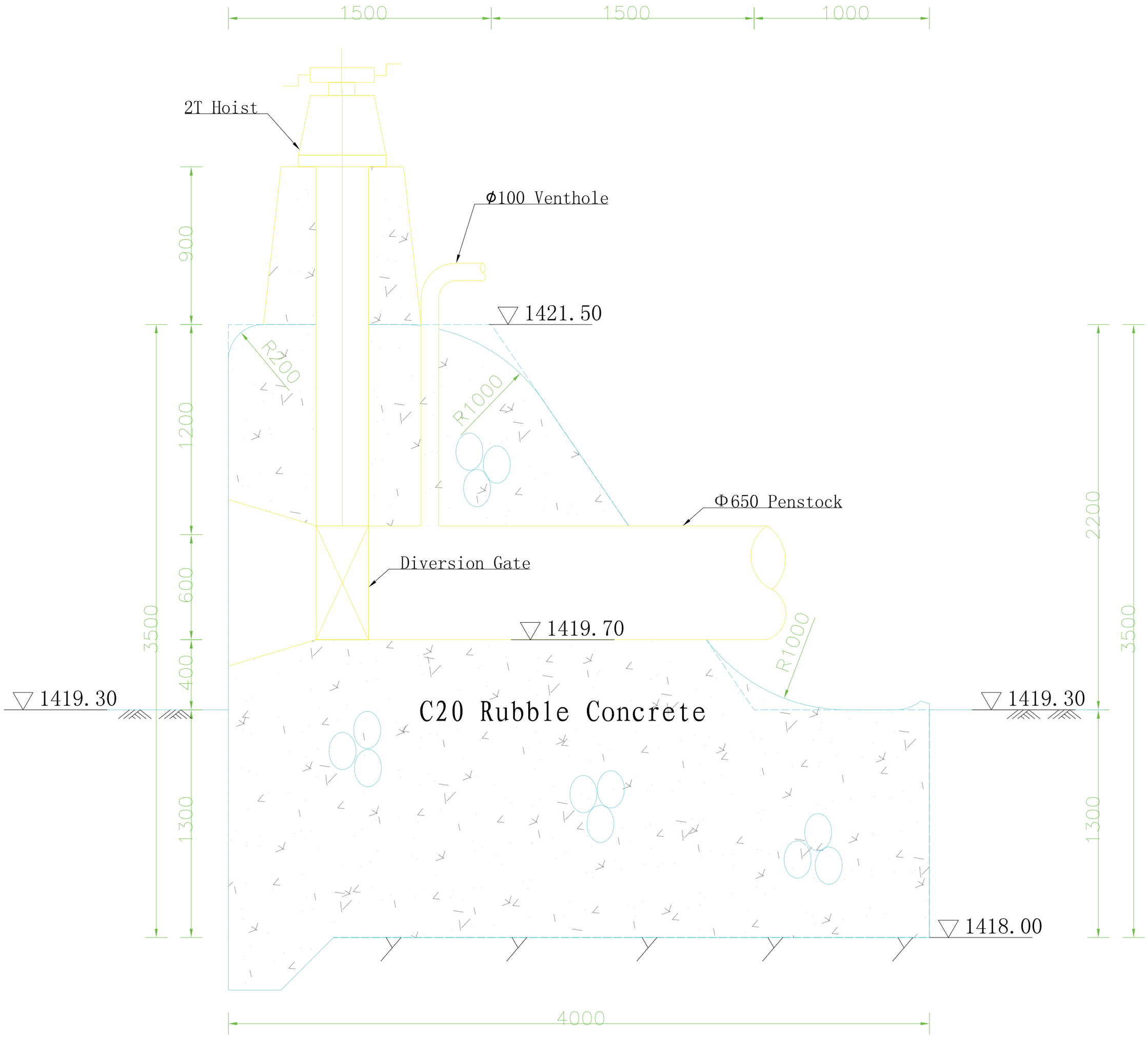
Vertical Section of Dam

1:50

Specifications:
1. The unit of elevation is m, and the rest is mm;
2. The excavation of dam foundation requires to reech 0.5m below the intact rock mass, and the cutoff trench should be set at upstream;
3. The pouring of dam body will adopt C20 rubble concrete;
4. The construction of dam body should be subject to relevant regulations and specifications.

Hangzhou Guowang Technology Co., Ltd.	Design Certificate No.	Approval		Examine		Design		CHIPOTA FALLS Station Feasibility Study	Vertical Section of Dam (Compared Plan)	Feasibility Study	Ratio	1:50
				Check		Drawing				Hydraulic	Date	2016.08

Drawing No.: CHIPOTA-Hydraulic-08



Vertical Section of Dam

1:50

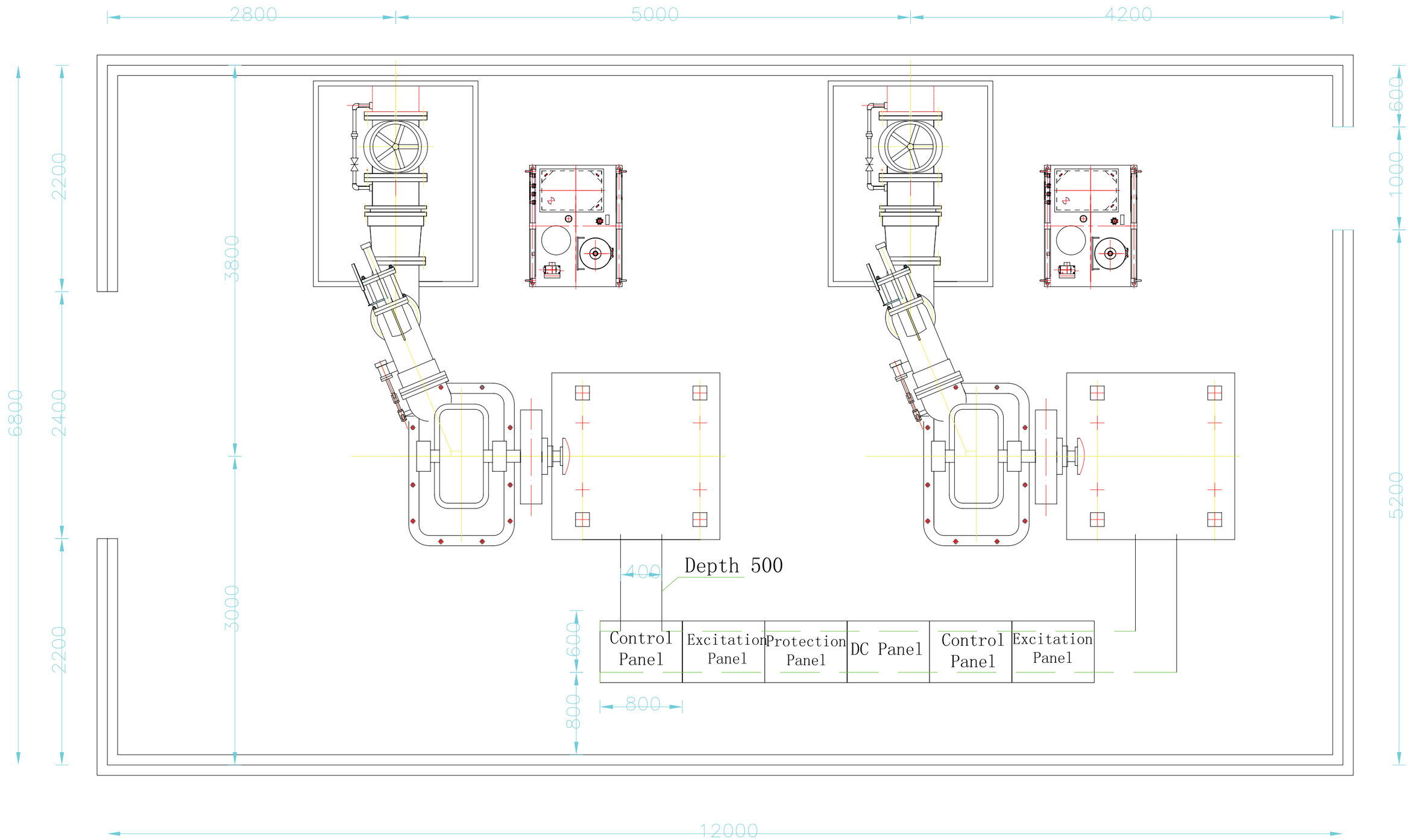
Specifications:
1. The unit of elevation is m, and the rest is mm;
2. The excavation of dam foundation requires to reech 0.5m below the intact rock mass, and the cutoff trench should be set at upstream;
3. The pouring of dam body will adopt C20 rubble concrete;
4. The construction of dam body should be subject to relevant regulations and specifications.

Hangzhou Guowang Technology Co., Ltd.	Design Certificate No.	Approval		Examine		Design		CHIPOTA FALLS Station Feasibility Study	Vertical Section of Dam (Recommended Plan)	Feasibility Study	Ratio	1:50
				Check		Drawing				Hydraulic	Date	2016.08

Drawing No.: CHIPOTA--Hydraulic--13

Plane Layout of Powerhouse

1:50



Specification:

1. The unit of elevation is m, and the rest is mm;
2. Two sets of turbine-generators are installed in the powerhouse. The type of turbine is XJA-W-46/1×11, and the type of generator is SFW100-10/740. The installation elevation of turbine is 1372.33m;
3. The dimension of turbine pit should be subject to the installation diagram from manufacturer.

Hangzhou Guowang Technology Co., Ltd.	Design Certificate No.	Approval		Examine		Design		CHIPOTA FALLS Station Feasibility Study	Plane Layout of Powerhouse	Feasibility Study	Ratio	1:50
				Check		Drawing				Hydraulic	Date	2016.08

No.	Engineering Work		Construction Duration (Day)	Construction Progress												
				2016	2017											
				12	01	02	03	04	05	06	07	08	09	10	11	12
1	Cnstruction Preparation and Temporary Structures		30													
2	Hydraulic Engineering	Dam	30													
3		Penstock	50													
4		Tailrace	10													
5		Powerhouse	50													
6	Electric Engineering	Installation of Turbine	25													
7		Installation of Generator	40													
8		Installation of Electral Equipments	40													
9		Booster Station	25													
10	Auxiliary Engineering	Access Road	30													
11		Management House	40													
12		Site-clearance and Testing	30													

Specifications:

The preparatory period of this project will be 2 months. The construction of this project will be started on 1st Dec. 2016, and be completed on 30th Dec. 2017. The total construction duration will be 13 moths.

Construction Progress Chart

Hangzhou Guowang Technology Co., Ltd.	Design Certificate No.	Approval		Examine		Design		CHIPOTA FALLS Station Feasibility Study	Construction Progress Chart	Feasibility Study	Ratio	1:50
				Check		Drawing				Hydraulic	Date	2015.06