

**Koshe**  
Design Plan

NBH-01 (Test Well)  
LNG:447536  
LAT:886642  
ALT:1815.06m  
Well Depth:200m  
Well SWL:1799.16m  
Casing Dia:8"  
Yield:25.5L/sec(734.4m3/8h)

BH-01 (Reserve)  
LNG:447089  
LAT:886433  
ALT:1810.86m  
Well Depth:84m  
Well SWL:--m  
Casing Dia:6"  
Yield:5.0L/sec (144.0m3/8h)

RT-02 (New)  
LNG:447215  
LAT:884707  
ALT:1909.72m  
Type:Ground  
Volume:72.0m3  
Material:RC

RT-01 (Operation)  
LNG:447203(GPS)  
LAT:884696(GPS)  
ALT:1909.72m  
Type:Ground  
Volume:100m3  
Material:Masonry

BH-02 (Reserve)  
LNG:448481  
LAT:885110  
ALT:1878m  
Well Depth:208m  
Well SWL:--m  
Casing Dia:6"  
Yield:3.5L/sec (100.8m3/8h)

RT-02 (Abolition)  
LNG:448480  
LAT:885111  
ALT:1878m  
Type:Elevated  
Volume:5m3  
Height:5m  
Material:Plastic

**Legend**

	Water Source
	Reservoir Tank
<b>Pipe Line(Plan)</b>	
	150mm
	75mm
	65mm
	50mm
	40mm
<b>Pipe Line(Existing)</b>	
	150mm
	75mm
	65mm
	50mm
	40mm
	Water Faucet(Existing)
	Water Faucet(New)
	Water Meter

**Pipe Length (Plan)**

<b>Transmission Line</b>	
150mm	: 2,170m
<b>Distribution Line</b>	
150mm	: 1,350m
75mm	: 1,776m
50mm	: 1,151m
40mm	: 2,220m



**Kela**  
Design Plan

RT-01 (Operation)  
LNG:443775  
LAT:913792  
ALT:2033.48m  
Type:Ground  
Volume:100m3  
Material:Masonry

RT-02 (New)  
LNG:443873  
LAT:913375  
ALT:1967.66m  
Type:Ground  
Volume:15.7m3  
Material:RC

BH-01 (Reserve)  
LNG:444304(GPS)  
LAT:912229(GPS)  
ALT:1914m(GPS)  
Well Depth:--m  
Well SWL:--m  
Casing Dia:6"  
Yield:5.0L/sec (144m3/8h)

NBH-01 (Test Well)  
LNG:444399  
LAT:911782  
ALT:1905.80m  
Well Depth:99m  
Well SWL:1888.35m  
Casing Dia:8"  
Yield:3.64L/sec (113.2m3/8.64h)

NBH-01 (Test Well)  
LNG:444697  
LAT:911678  
ALT:1895m  
Well Depth:100m  
Well SWL:1887.20m  
Casing Dia:8"  
Yield:3.5L/sec (103.9m3/8.64h)

**Legend**

- ⊙ Water Source
- Reservoir Tank

Pipe Line(Plan)	Pipe Line(Existing)
— 100mm	- - - 100mm
— 75mm	- - - 75mm
— 50mm	- - - 50mm
— 40mm	- - - 40mm

- Water Faucet(Existing)
- Water Faucet(New)
- Water Meter

**Pipe Length (Plan)**

Transmission Line	100mm : 5,740m
Distribution Line	100mm : 920m
	75mm : 660m
	50mm : 150m
	40mm : 6,870m

**Tiya**  
Design Plan

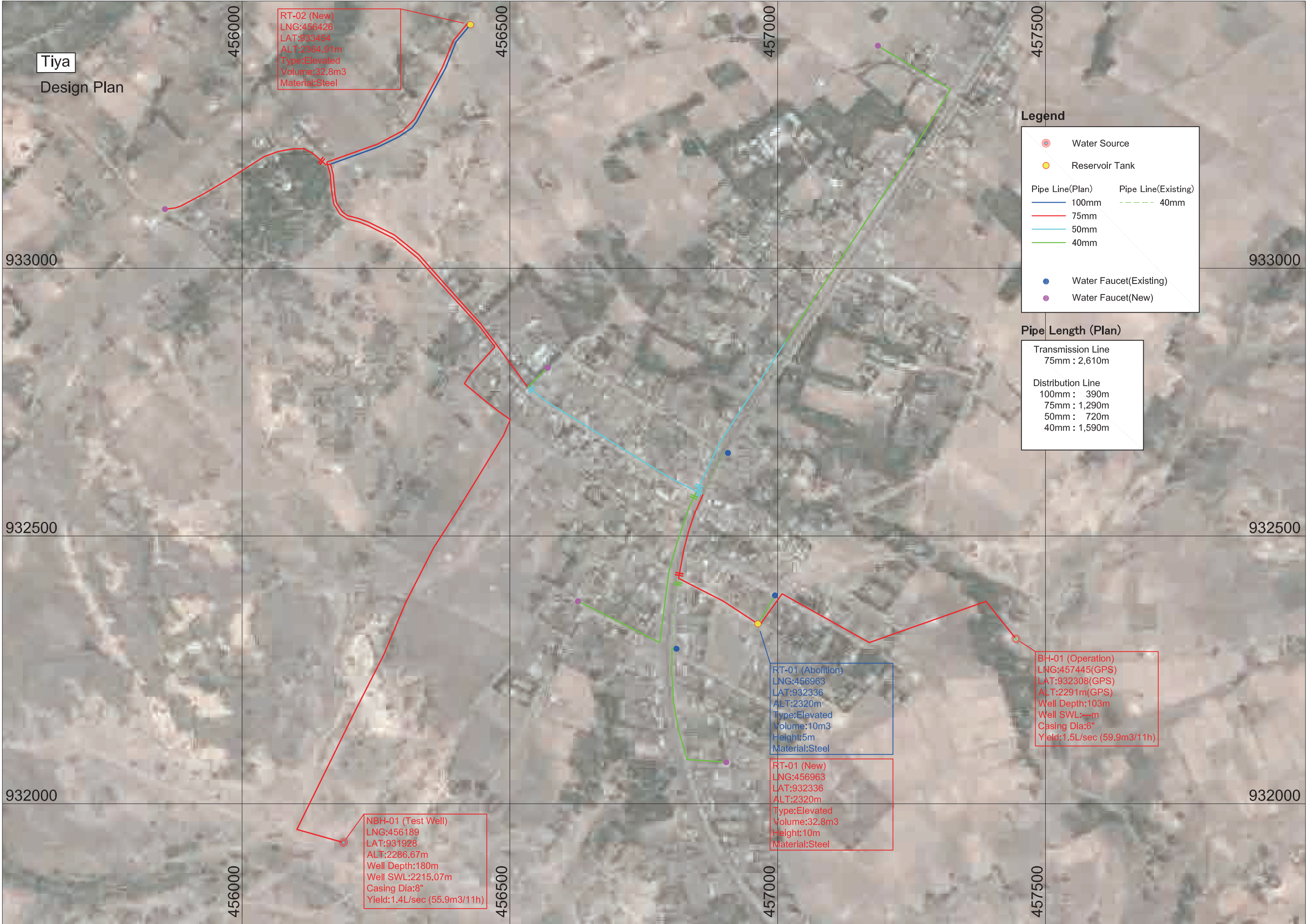
RT-02 (New)  
LNG:456426  
LAT:933454  
ALT:2364.91m  
Type:Elevated  
Volume:32.8m3  
Material:Steel

**Legend**

	Water Source
	Reservoir Tank
<b>Pipe Line(Plan)</b>	
	100mm
	75mm
	50mm
	40mm
<b>Pipe Line(Existing)</b>	
	40mm
	Water Faucet(Existing)
	Water Faucet(New)

**Pipe Length (Plan)**

<b>Transmission Line</b>	
75mm	: 2,610m
<b>Distribution Line</b>	
100mm	: 390m
75mm	: 1,290m
50mm	: 720m
40mm	: 1,590m



NBH-01 (Test Well)  
LNG:456189  
LAT:931928  
ALT:2286.67m  
Well Depth:180m  
Well SWL:2215.07m  
Casing Dia:8"  
Yield:1.4L/sec (55.9m3/11h)

RT-01 (Abolition)  
LNG:456963  
LAT:932336  
ALT:2320m  
Type:Elevated  
Volume:10m3  
Height:5m  
Material:Steel

RT-01 (New)  
LNG:456963  
LAT:932336  
ALT:2320m  
Type:Elevated  
Volume:32.8m3  
Height:10m  
Material:Steel

BH-01 (Operation)  
LNG:457445(GPS)  
LAT:932308(GPS)  
ALT:2291m(GPS)  
Well Depth:103m  
Well SWL:--m  
Casing Dia:6"  
Yield:1.5L/sec (59.9m3/11h)



**Adilo**  
Design Plan

**Legend**

	Water Source
	Reservoir Tank
<b>Pipe Line(Plan)</b>	
	100mm
	75mm
	65mm
	50mm
	40mm
<b>Pipe Line(Existing)</b>	
	100mm
	75mm
	65mm
	50mm
	40mm
	Water Faucet(Existing)
	Water Faucet(New)
	Water Meter

**Pipe Length (Plan)**

<b>Transmission Line</b>	
100mm	: 3,080m
<b>Distribution Line</b>	
100mm	: 220m
75mm	: 520m
50mm	: 1,460m
40mm	: 2,050m

**RT-01 (Operation)**  
LNG:387058  
LAT:797899  
ALT:1995.66m  
Type:Ground  
Volume:50m3  
Material:Masonry

**RT-02 (New)**  
LNG:387077  
LAT:797899  
ALT:1995.66m  
Type:Ground  
Volume:100.7m3  
Material:RC

**NBH-01 (Test Well)**  
LNG:388333  
LAT:797642  
ALT:1946.42  
Well Depth:244m  
Well SWL:1752.64m  
Casing Dia:8"  
Yield:5.0L/sec (144.0m3/8h)

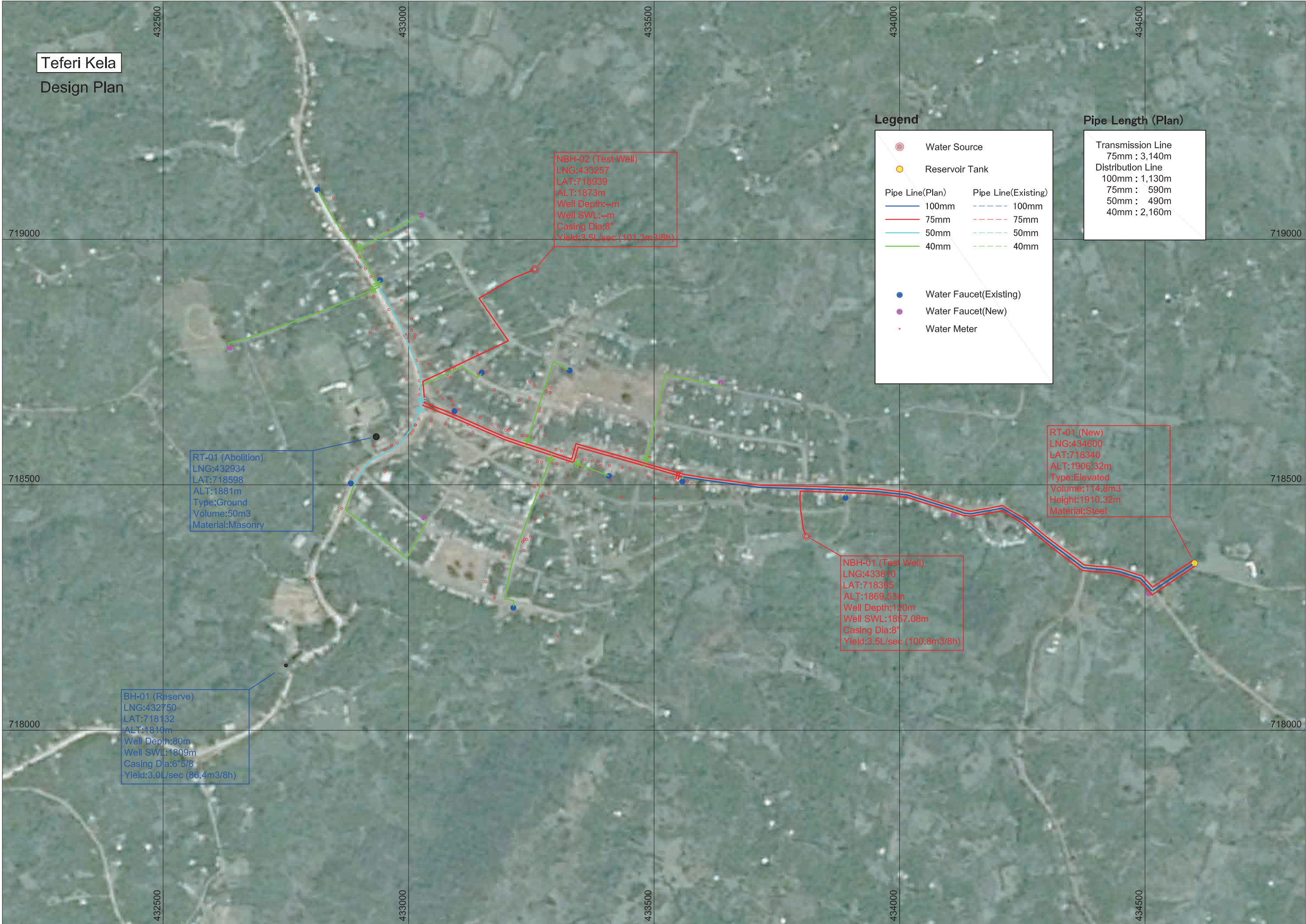
**NBH-02 (Test Well)**  
LNG:387422  
LAT:796782  
ALT:1952.48  
Well Depth:260m  
Well SWL:1754.48m  
Casing Dia:8"  
Yield:5.0L/sec (144.0m3/8h)

**BH-01 (Reserve)**  
LNG:387659(GPS)  
LAT:796354(GPS)  
ALT:1932m(GPS)  
Well Depth:240m  
Well SWL:---m  
Casing Dia:6"  
Yield:6.0L/sec (172.8m3/8h)

減圧槽



**Teferi Kela**  
Design Plan



NBH-02 (Test Well)  
LNG:433257  
LAT:718939  
ALT:1873m  
Well Depth:--m  
Well SWL:--m  
Casing Dia:8"  
Yield:3.5L/sec (101.3m3/8h)

RT-01 (Abolition)  
LNG:432934  
LAT:718598  
ALT:1881m  
Type:Ground  
Volume:50m3  
Material:Masonry

RT-01 (New)  
LNG:434600  
LAT:718340  
ALT:1906.32m  
Type:Elevated  
Volume:114.8m3  
Height:1910.32m  
Material:Steel

NBH-01 (Test Well)  
LNG:433810  
LAT:718395  
ALT:1869.53m  
Well Depth:130m  
Well SWL:1857.08m  
Casing Dia:8"  
Yield:3.5L/sec (100.8m3/8h)

BH-01 (Reserve)  
LNG:432750  
LAT:718132  
ALT:1819m  
Well Depth:80m  
Well SWL:1809m  
Casing Dia:6"5/8  
Yield:3.0L/sec (86.4m3/8h)

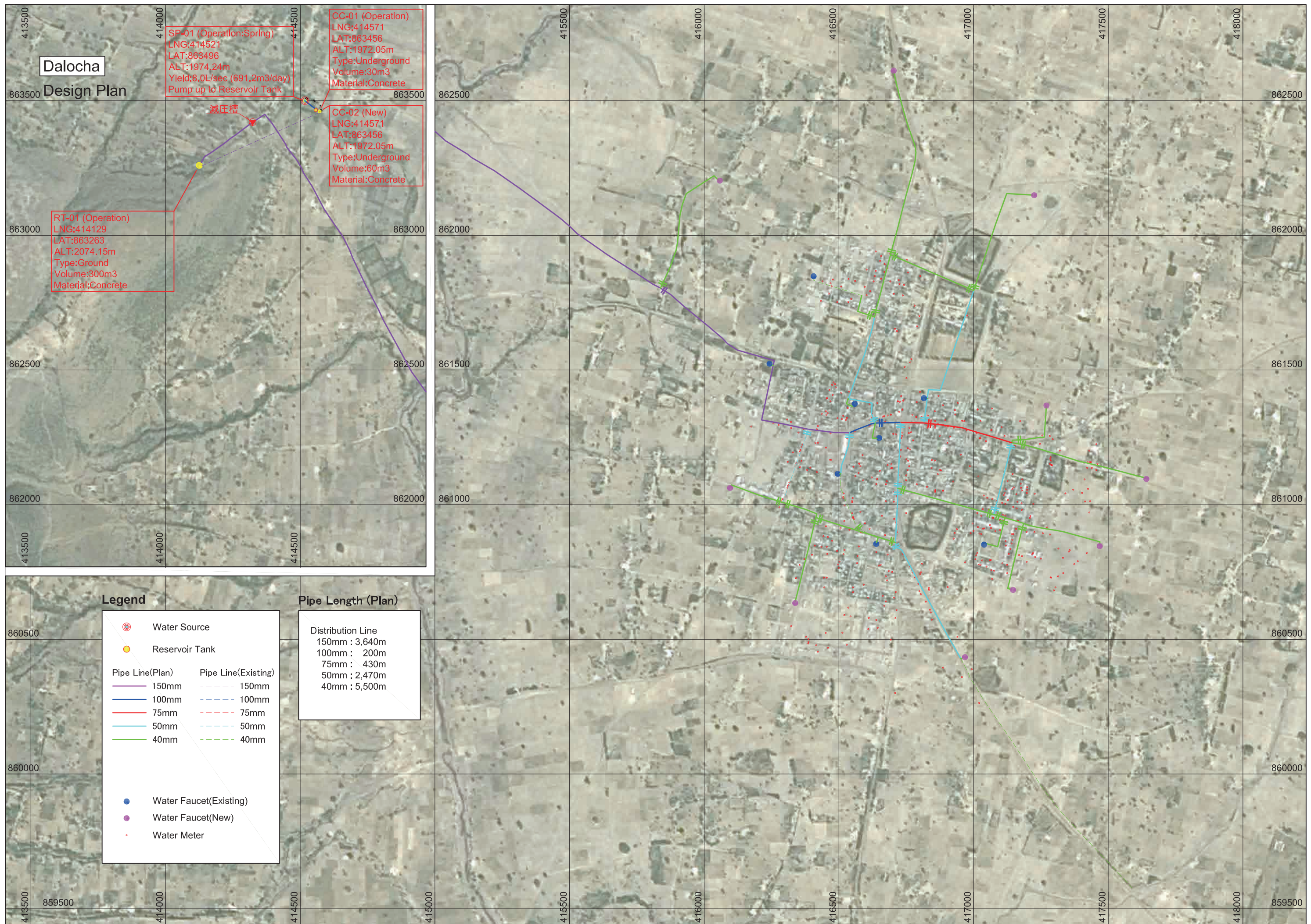
**Legend**

	Water Source
	Reservoir Tank
<b>Pipe Line(Plan)</b>	
	100mm
	75mm
	50mm
	40mm
<b>Pipe Line(Existing)</b>	
	100mm
	75mm
	50mm
	40mm
	Water Faucet(Existing)
	Water Faucet(New)
	Water Meter

**Pipe Length (Plan)**

Transmission Line	75mm : 3,140m
Distribution Line	100mm : 1,130m
	75mm : 590m
	50mm : 490m
	40mm : 2,160m





Dalocha

Design Plan

SP-01 (Operation:Spring)  
 LNG:414521  
 LAT:863496  
 ALT:1974.24m  
 Yield:8.0L/sec (691.2m3/day)  
 Pump up to Reservoir Tank

CC-01 (Operation)  
 LNG:414571  
 LAT:863456  
 ALT:1972.05m  
 Type:Underground  
 Volume:30m3  
 Material:Concrete

CC-02 (New)  
 LNG:414571  
 LAT:863456  
 ALT:1972.05m  
 Type:Underground  
 Volume:60m3  
 Material:Concrete

RT-01 (Operation)  
 LNG:414129  
 LAT:863263  
 ALT:2074.15m  
 Type:Ground  
 Volume:300m3  
 Material:Concrete

減圧槽

Legend

- Water Source
- Reservoir Tank
- Pipe Line(Plan)**
- 150mm
- 100mm
- 75mm
- 50mm
- 40mm
- Pipe Line(Existing)**
- 150mm
- 100mm
- 75mm
- 50mm
- 40mm
- Water Faucet(Existing)
- Water Faucet(New)
- Water Meter

Pipe Length (Plan)

Distribution Line	
150mm	3,640m
100mm	200m
75mm	430m
50mm	2,470m
40mm	5,500m



**Mito**  
Design Plan

NBH-01 (Test Well)  
 LNG:428492(GPS)  
 LAT:849498(GPS)  
 ALT:1802.64m  
 Well Depth:101m  
 Well SWL:1773.24m  
 Casing Dia:8"  
 Yield:10.0L/sec (288m<sup>3</sup>/8h)

BH-01 (Reserve)  
 LNG:428513  
 LAT:849236  
 ALT:1801m  
 Well Depth:50m  
 Well SWL:--m  
 Casing Dia:6"  
 Yield:3.2L/sec (92.2m<sup>3</sup>/8h)

RT-01 (Abolition)  
 LNG:429128(GPS)  
 LAT:849098(GPS)  
 ALT:1824.99m  
 Type:Elevated  
 Volume:15m<sup>3</sup>  
 Height:5m  
 Material:Steel

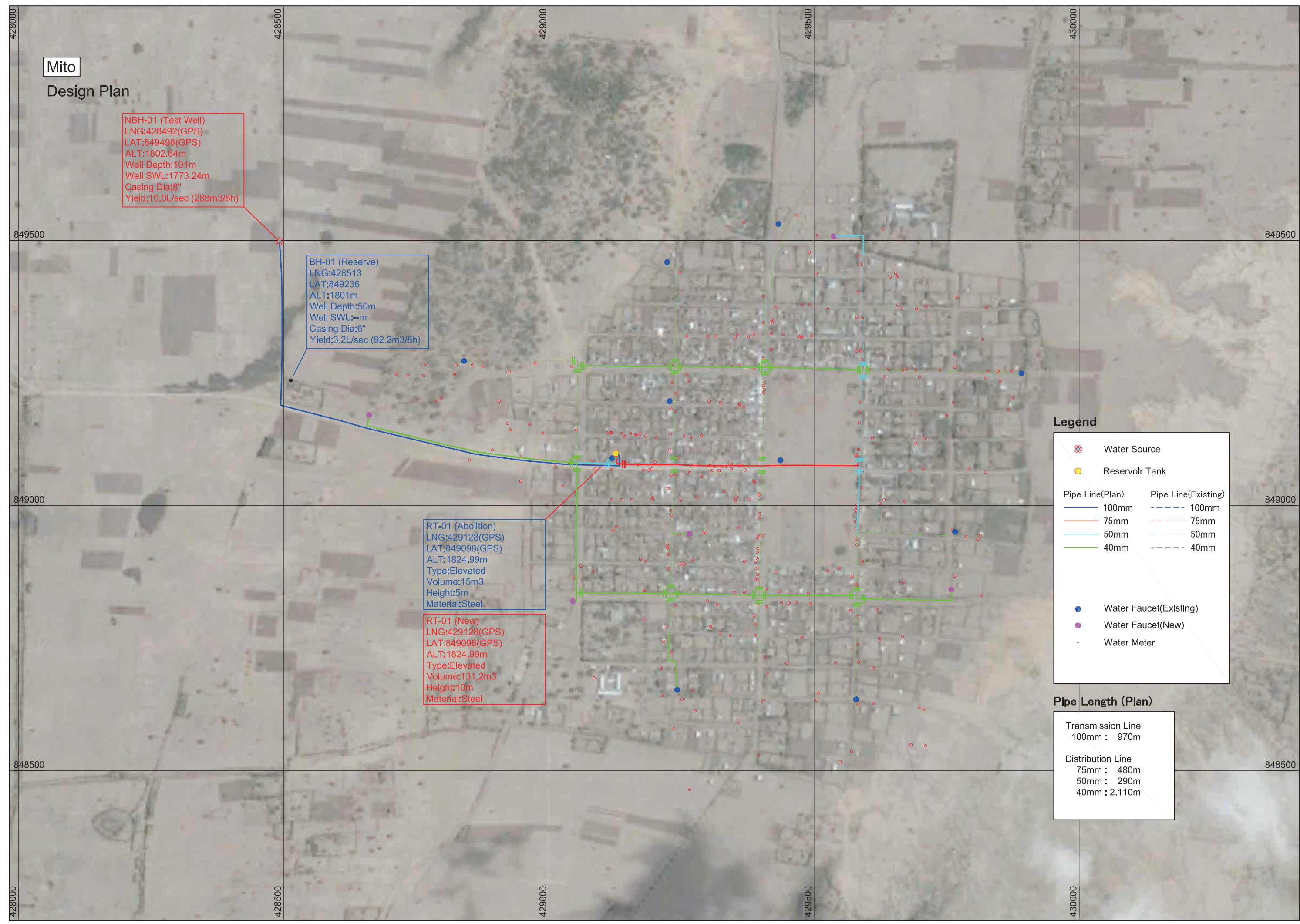
RT-01 (New)  
 LNG:429128(GPS)  
 LAT:849098(GPS)  
 ALT:1824.99m  
 Type:Elevated  
 Volume:131.2m<sup>3</sup>  
 Height:10m  
 Material:Steel

**Legend**

	Water Source
	Reservoir Tank
<b>Pipe Line(Plan)</b>	
	100mm
	75mm
	50mm
	40mm
<b>Pipe Line(Existing)</b>	
	100mm
	75mm
	50mm
	40mm
	Water Faucet(Existing)
	Water Faucet(New)
	Water Meter

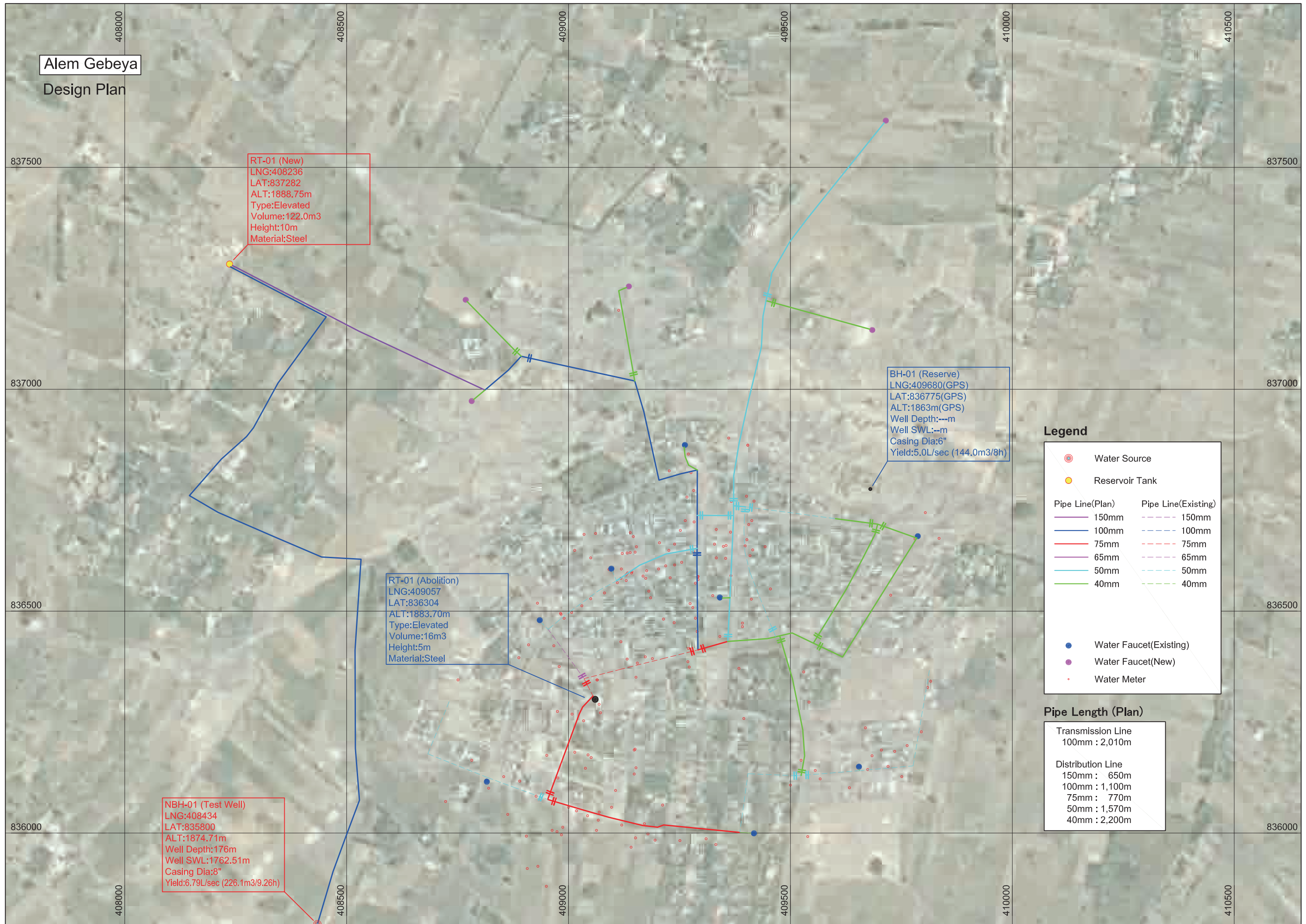
**Pipe Length (Plan)**

<b>Transmission Line</b>	
100mm	: 970m
<b>Distribution Line</b>	
75mm	: 480m
50mm	: 290m
40mm	: 2,110m





**Alem Gebeya**  
Design Plan



RT-01 (New)  
LNG:408236  
LAT:837282  
ALT:1888.75m  
Type:Elevated  
Volume:122.0m3  
Height:10m  
Material:Steel

BH-01 (Reserve)  
LNG:409680(GPS)  
LAT:836775(GPS)  
ALT:1863m(GPS)  
Well Depth:---m  
Well SWL:---m  
Casing Dia:6"  
Yield:5.0L/sec (144.0m3/8h)

RT-01 (Abolition)  
LNG:409057  
LAT:836304  
ALT:1883.70m  
Type:Elevated  
Volume:16m3  
Height:5m  
Material:Steel

NBH-01 (Test Well)  
LNG:408434  
LAT:835800  
ALT:1874.71m  
Well Depth:176m  
Well SWL:1762.51m  
Casing Dia:8"  
Yield:6.79L/sec (226.1m3/9.26h)

**Legend**

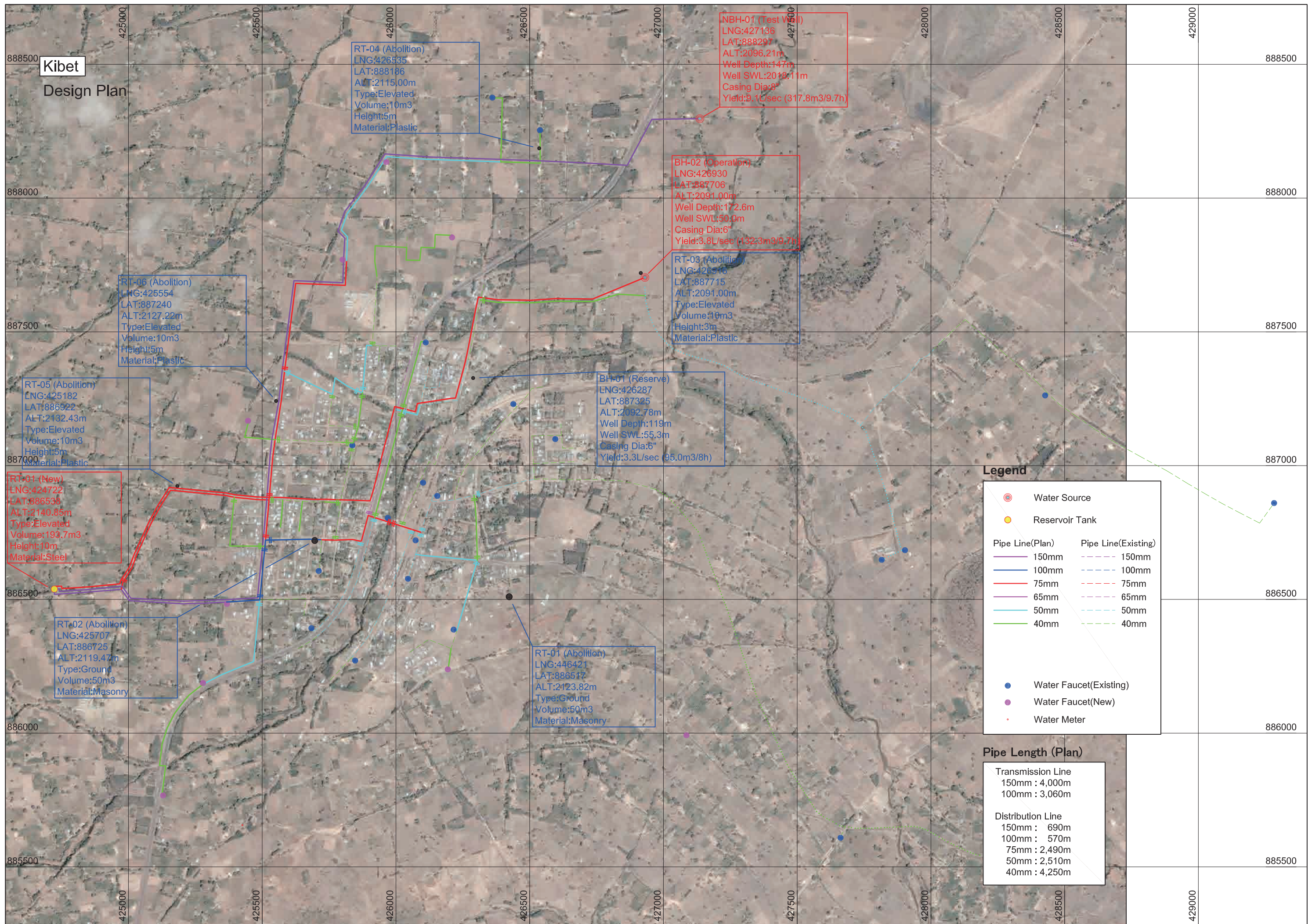
- Water Source
  - Reservoir Tank
- | Pipe Line(Plan) | Pipe Line(Existing) |
|-----------------|---------------------|
| 150mm           | 150mm               |
| 100mm           | 100mm               |
| 75mm            | 75mm                |
| 65mm            | 65mm                |
| 50mm            | 50mm                |
| 40mm            | 40mm                |
- Water Faucet(Existing)
  - Water Faucet(New)
  - Water Meter

**Pipe Length (Plan)**

Transmission Line  
100mm : 2,010m

Distribution Line  
150mm : 650m  
100mm : 1,100m  
75mm : 770m  
50mm : 1,570m  
40mm : 2,200m





**Kibet**  
**Design Plan**

RT-04 (Abolition)  
LNG:426535  
LAT:888186  
ALT:2115.00m  
Type:Elevated  
Volume:10m3  
Height:5m  
Material:Plastic

NBH-01 (Test Well)  
LNG:427136  
LAT:888297  
ALT:2096.21m  
Well Depth:147m  
Well SWL:2018.11m  
Casing Dia:8"  
Yield:9.1L/sec (317.8m3/9.7h)

BH-02 (Operation)  
LNG:426930  
LAT:887706  
ALT:2091.00m  
Well Depth:172.6m  
Well SWL:50.9m  
Casing Dia:6"  
Yield:3.8L/sec (132.3m3/9.7h)

RT-03 (Abolition)  
LNG:426546  
LAT:887715  
ALT:2091.00m  
Type:Elevated  
Volume:10m3  
Height:3m  
Material:Plastic

RT-06 (Abolition)  
LNG:425554  
LAT:887240  
ALT:2127.22m  
Type:Elevated  
Volume:10m3  
Height:5m  
Material:Plastic

RT-05 (Abolition)  
LNG:425182  
LAT:886922  
ALT:2132.43m  
Type:Elevated  
Volume:10m3  
Height:5m  
Material:Plastic

BH-01 (Reserve)  
LNG:426287  
LAT:887325  
ALT:2092.78m  
Well Depth:119m  
Well SWL:55.3m  
Casing Dia:6"  
Yield:3.3L/sec (95.0m3/8h)

RT-01 (New)  
LNG:424722  
LAT:886538  
ALT:2140.85m  
Type:Elevated  
Volume:193.7m3  
Height:10m  
Material:Steel

RT-02 (Abolition)  
LNG:425707  
LAT:886725  
ALT:2119.47m  
Type:Ground  
Volume:50m3  
Material:Masonry

RT-01 (Abolition)  
LNG:446421  
LAT:886517  
ALT:2123.82m  
Type:Ground  
Volume:50m3  
Material:Masonry

**Legend**

- Water Source
- Reservoir Tank

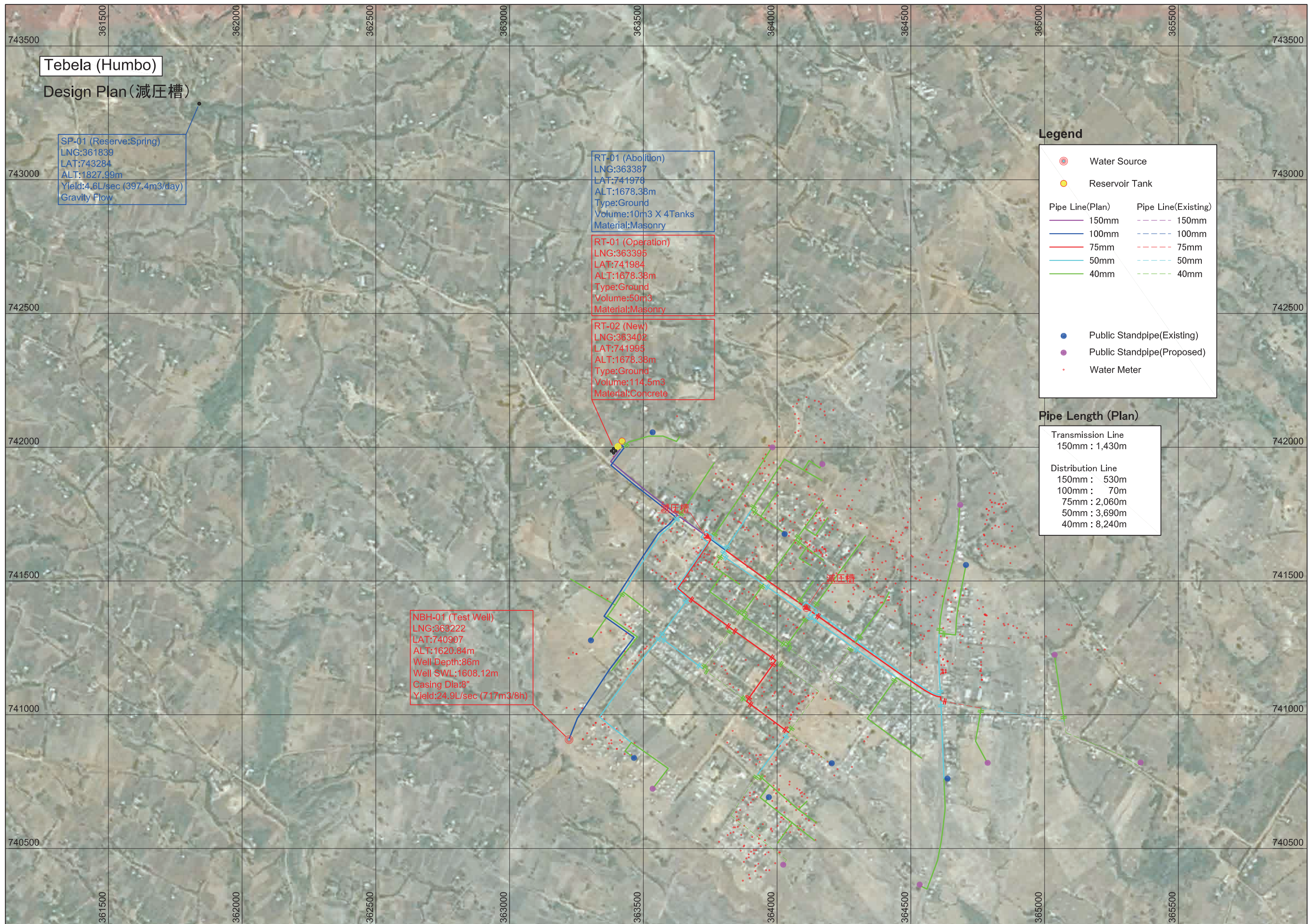
Pipe Line(Plan)	Pipe Line(Existing)
150mm	150mm
100mm	100mm
75mm	75mm
65mm	65mm
50mm	50mm
40mm	40mm

- Water Faucet(Existing)
- Water Faucet(New)
- Water Meter

**Pipe Length (Plan)**

Transmission Line	
150mm	: 4,000m
100mm	: 3,060m
Distribution Line	
150mm	: 690m
100mm	: 570m
75mm	: 2,490m
50mm	: 2,510m
40mm	: 4,250m





**Tebela (Humbo)**

**Design Plan (減圧槽)**

SP-01 (Reserve:Spring)  
 LNG:361839  
 LAT:743284  
 ALT:1827.99m  
 Yield:4.6L/sec (397.4m<sup>3</sup>/day)  
 Gravity Flow

RT-01 (Abolition)  
 LNG:363387  
 LAT:741978  
 ALT:1678.38m  
 Type:Ground  
 Volume:10m<sup>3</sup> X 4Tanks  
 Material:Masonry

RT-01 (Operation)  
 LNG:363395  
 LAT:741984  
 ALT:1678.38m  
 Type:Ground  
 Volume:50m<sup>3</sup>  
 Material:Masonry

RT-02 (New)  
 LNG:363402  
 LAT:741993  
 ALT:1678.38m  
 Type:Ground  
 Volume:114.5m<sup>3</sup>  
 Material:Concrete

NBH-01 (Test Well)  
 LNG:363222  
 LAT:740907  
 ALT:1620.84m  
 Well Depth:86m  
 Well SWL:1608.12m  
 Casing Dia:8"  
 Yield:24.9L/sec (717m<sup>3</sup>/8h)

**Legend**

- Water Source
- Reservoir Tank
- Pipe Line(Plan) 150mm
- Pipe Line(Plan) 100mm
- Pipe Line(Plan) 75mm
- Pipe Line(Plan) 50mm
- Pipe Line(Plan) 40mm
- - - Pipe Line(Existing) 150mm
- - - Pipe Line(Existing) 100mm
- - - Pipe Line(Existing) 75mm
- - - Pipe Line(Existing) 50mm
- - - Pipe Line(Existing) 40mm
- Public Standpipe(Existing)
- Public Standpipe(Proposed)
- Water Meter

**Pipe Length (Plan)**

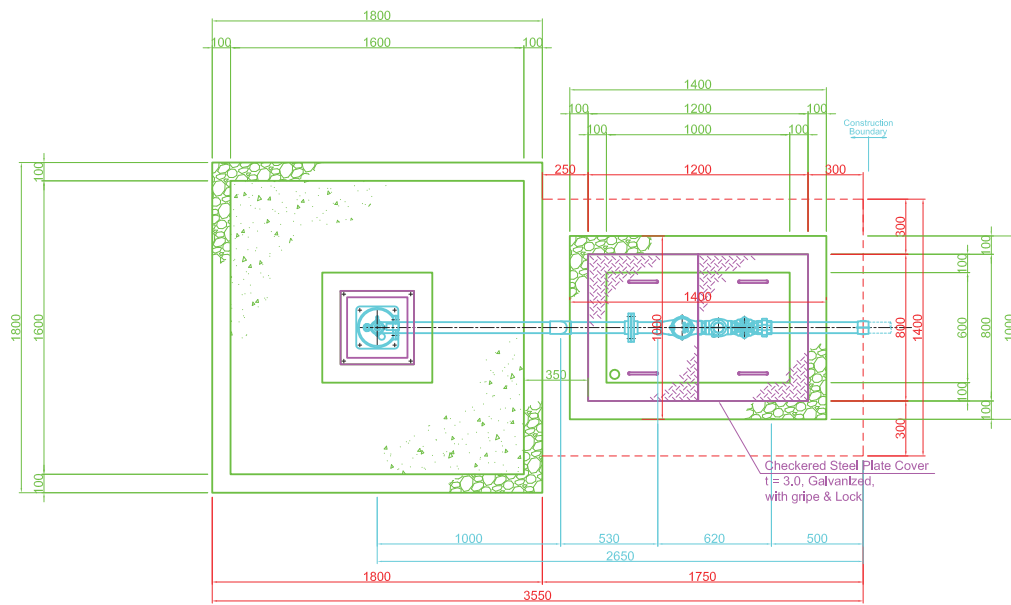
Transmission Line  
 150mm : 1,430m

Distribution Line  
 150mm : 530m  
 100mm : 70m  
 75mm : 2,060m  
 50mm : 3,690m  
 40mm : 8,240m

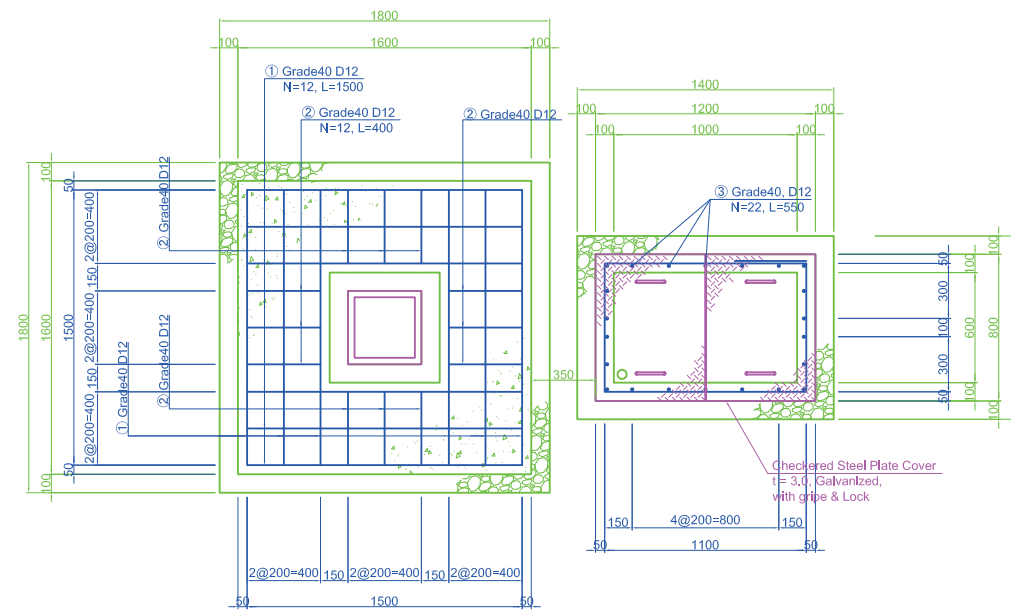


# Platform and Borehole Equipment for Submersible Pump

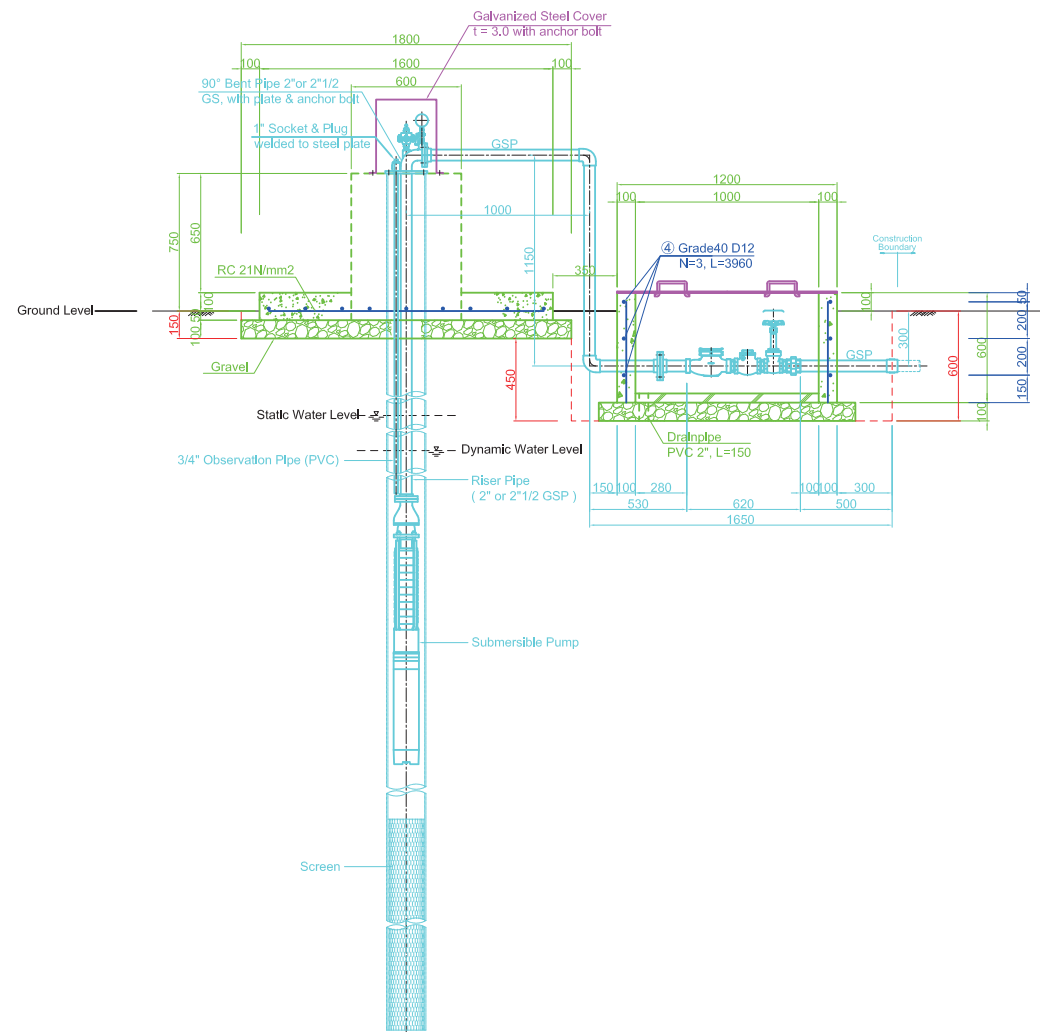
Plan View



Bar arrangement drawing (Plan View)



Side View

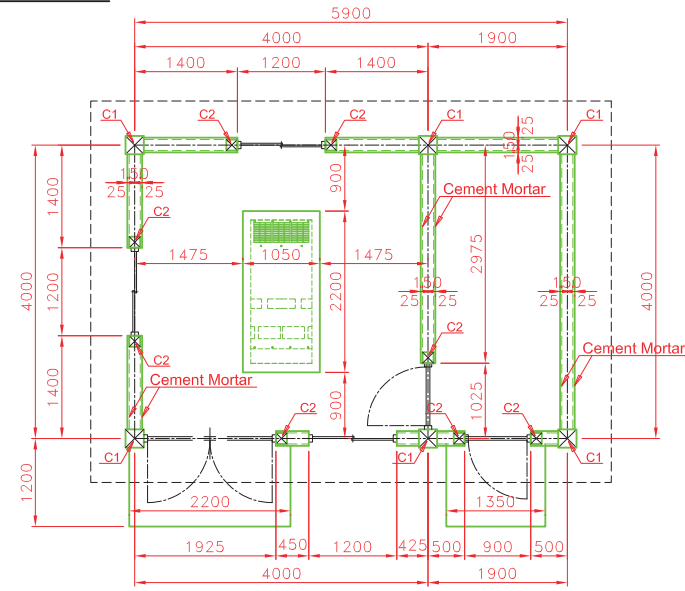


APPROVED	NOTE	PROJECT NO.	PROJECT NAME	TITLE	DWG NO. 00
		CHECKED	The Project Water Supply Development to the Small Towns in Rift Valley Basin Southern Nations Nationalities and People's Regional State	Platform and Borehole Equipment for Submersible Pump	
		DATE		SCALE S=1:20 — (A1) S=1:40 — (A3)	

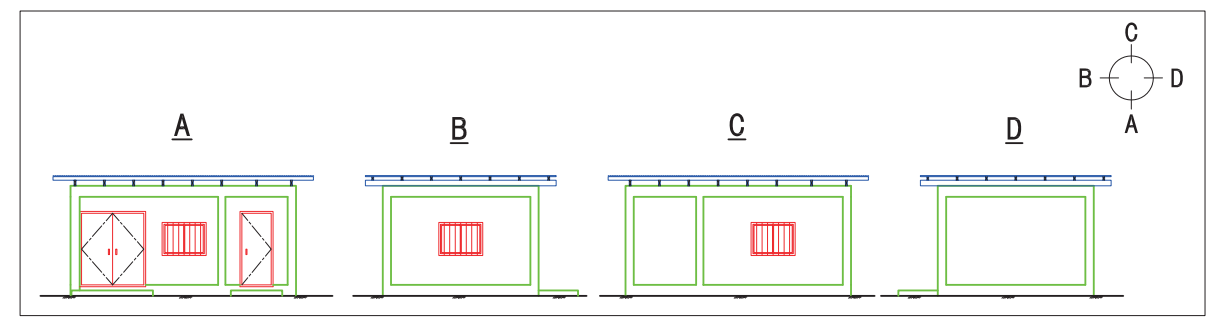
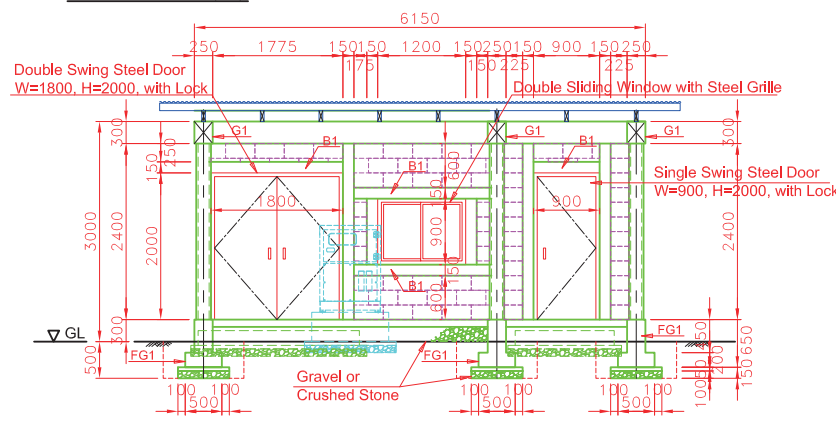


# Generator House

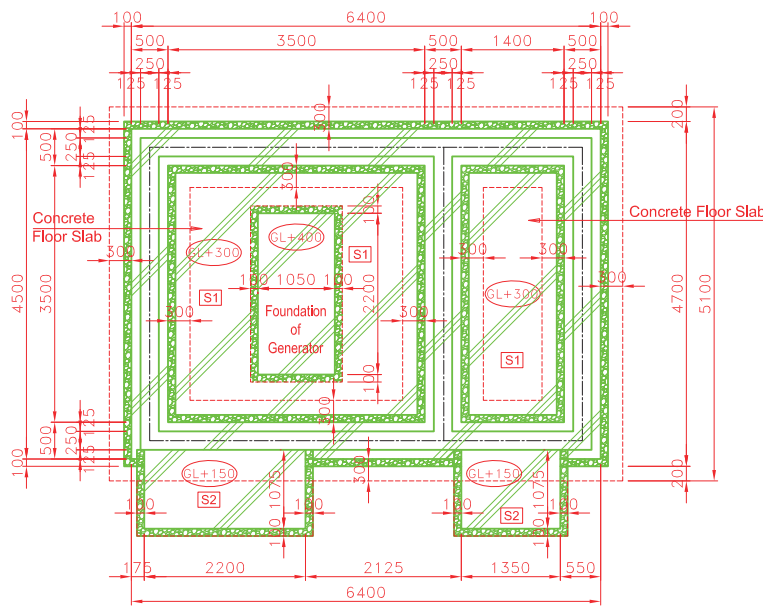
Plan View



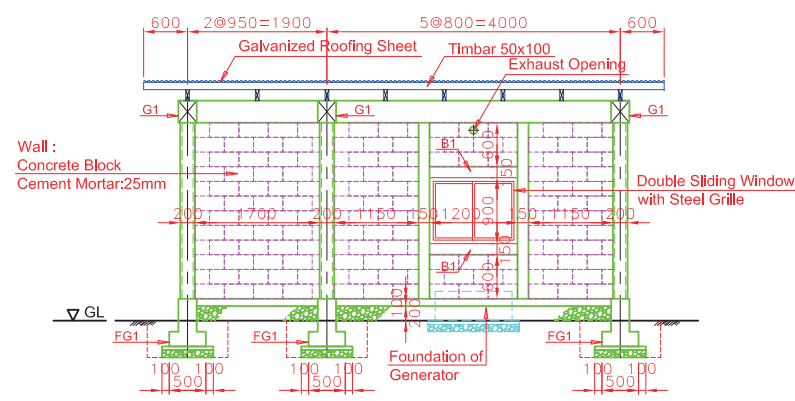
Front View (A)



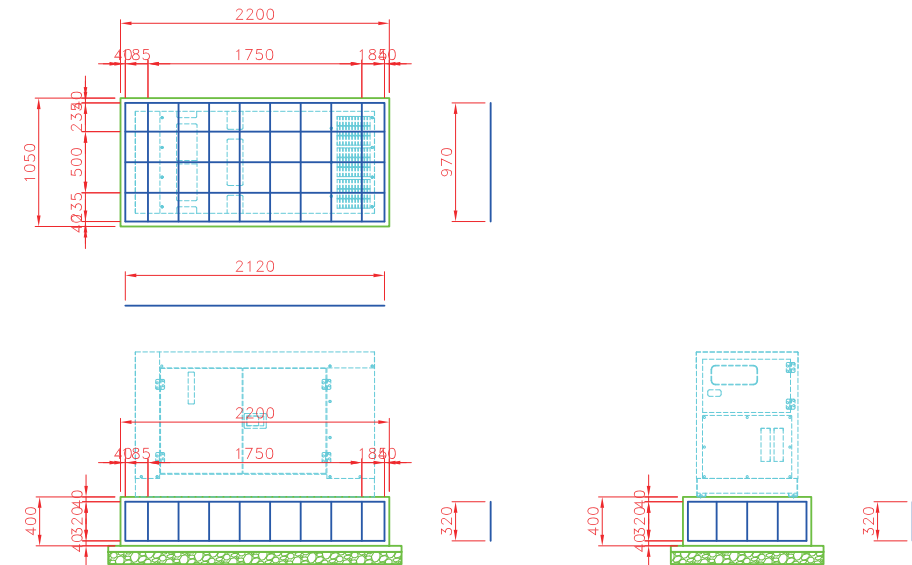
Foundation Plan



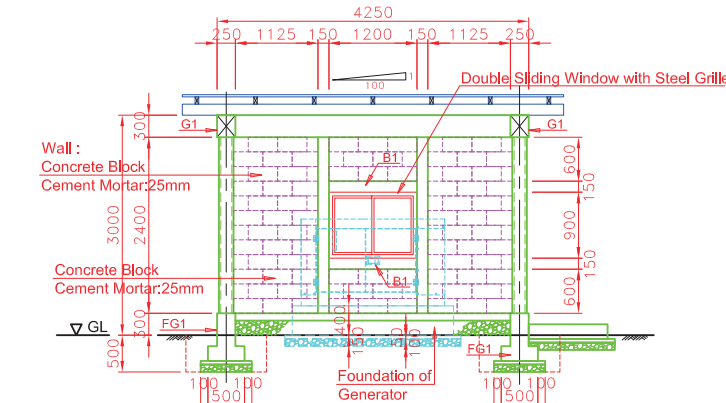
Back View (C)



Foundation of Generator s=1:30 (A1)

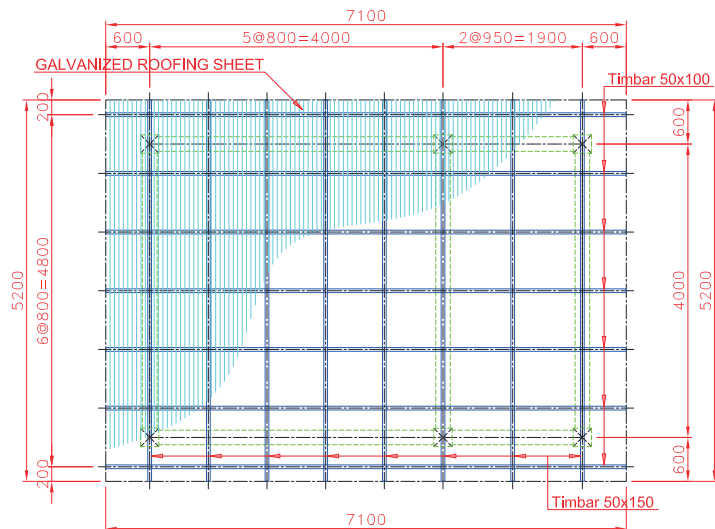


Side View (B)

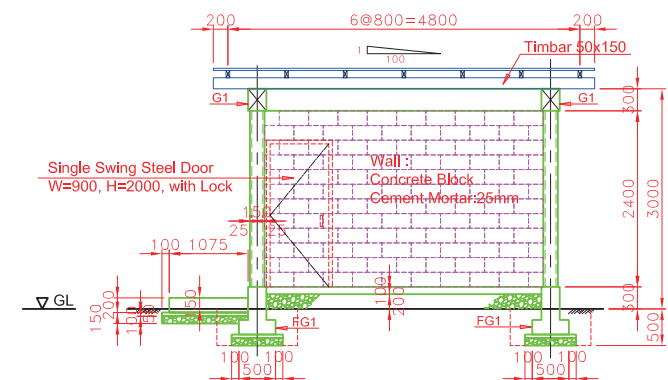


Note :  
 The size of foundation for generator depends on the generator.  
 The exhaust duct shall be installed to discharge gas.  
 Position of the exhaust opening depends on the generator.  
 The Contractor shall submit the shop drawing to the Consultant prior to the commencement of the work.

Roof Plan



Side View (D)



Reinforcement Schedule

Mark	FG1	C1	C2, B1	G1	S1	S2
Position						
Main re-bar	2-Y16 2-Y16	2-Y16 2-Y16	2-Y16 2-Y16	2-Y16 2-Y16	2-Y16 2-Y16	2-Y16 2-Y16
Ties / Stirrup	- Y10@250	- Y10@250	- Y10@250	- Y10@250	- Y10@250	- Y10@250

Door and window Schedule

Item	Specification	Material	Width	Height	Remarks
Door	Double Swing	Steel	1800	2000	with Lock
Door	Single Swing	Steel	900	2000	with Lock
Window	Double Sliding	Steel	1200	900	with Steel Grille Dia 12mm @150

Finishing Schedule

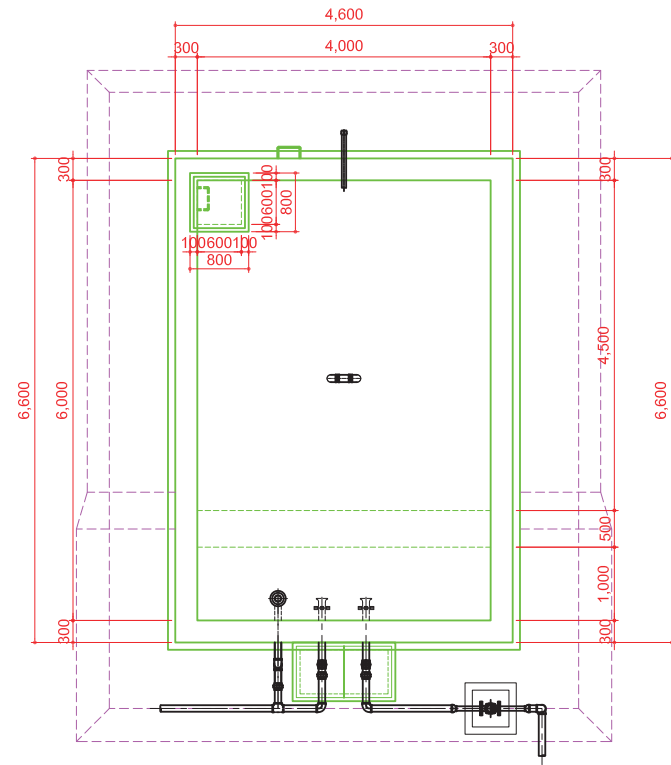
Item	Specification
External Wall	Emulsion paint
Internal Wall	Oil Paint
Floor	Trowel Finish

APPROVED	NOTE	PROJECT NO.	PROJECT NAME	TITLE	DWG NO.
CHECKED		DATE	The Project Water Supply Development to the Small Towns in Rift Valley Basin in Southern Nations Nationalities and People's Regional State	Generator House	00
DRAWN				SCALE	
				1:50 - (A1)	
				1:100 - (A3)	

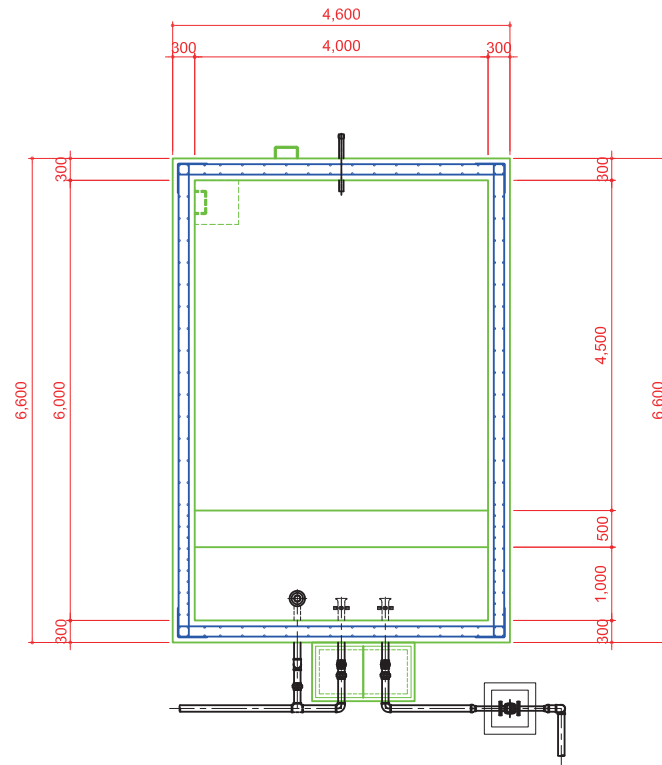


# Reservoir Tank : Reinforced Concrete Type Koshe(V=72.0m3)

Plan View



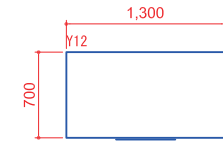
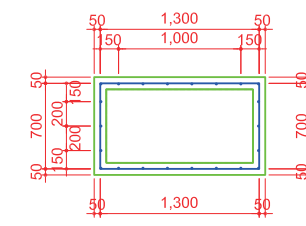
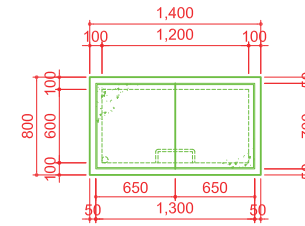
Cutaway View



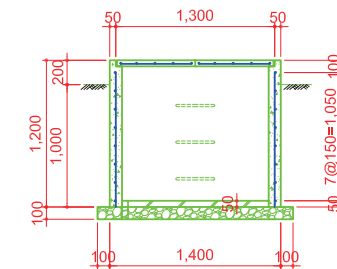
Concrete Box - A type

Cutaway View

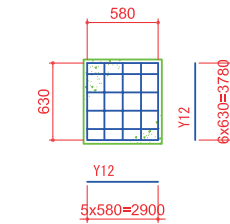
Plan View



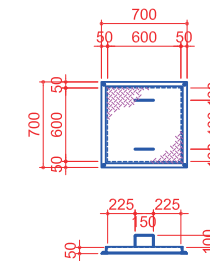
Front View



Concrete Cover



Steel Cover

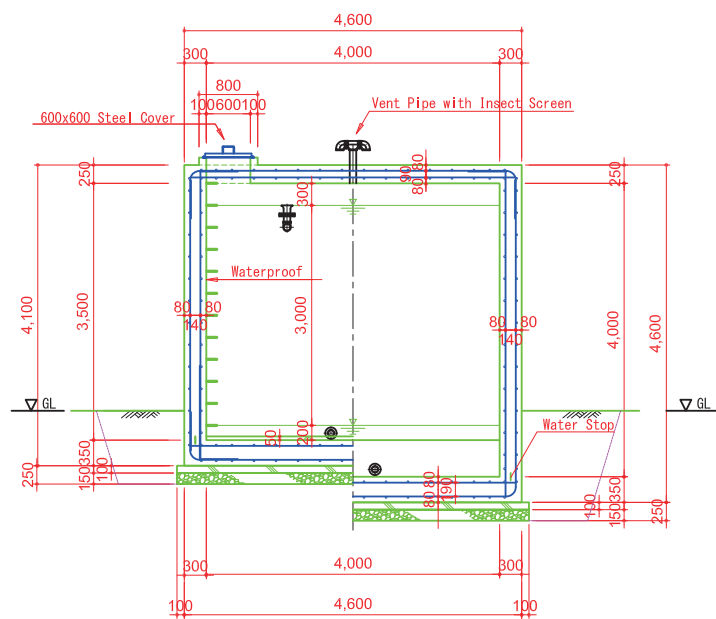


MATERIAL LIST

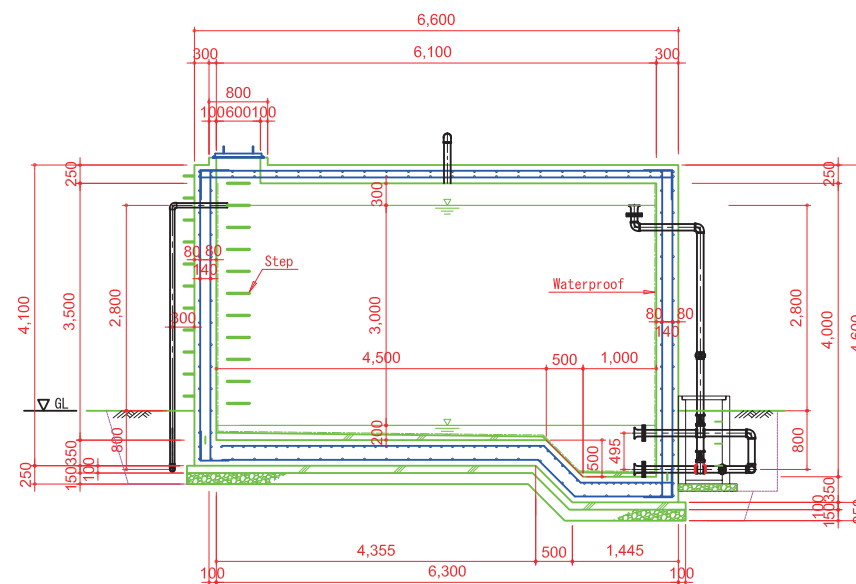
Item	Quantity
Steel Cover 600x600x50 (t=6mm)	2
Structure Steel L-shape 50x50 L=2800mm	2
Handle (steel)	4

Note: Anti-corrosive paint shall be applied for all parts.  
All parts shall be welded.

Cutaway (Front/Rear) View



Cutaway (Side) View

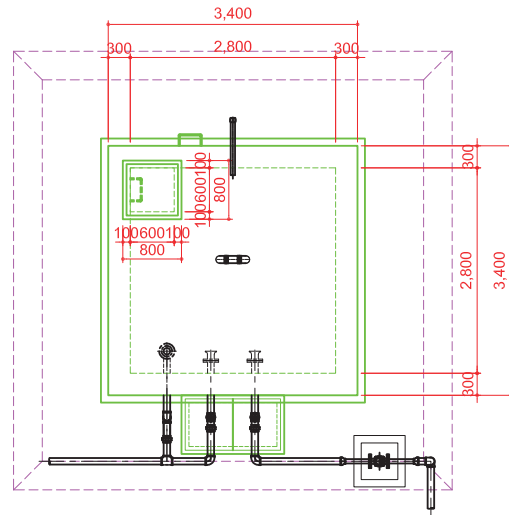


APPROVED	NOTE	PROJECT NO.	PROJECT NAME	TITLE	DWG NO.
CHECKED			The Project Water Supply Development to the Small Towns in Rift Valley Basin in Southern Nations Nationalities and People's Regional State	Reservoir Tank Structural Drawing Koshe (72, 0m3)	00
DRAWN		DATE		SCALE 1 : 50 - (A1) 1 : 100 - (A3)	

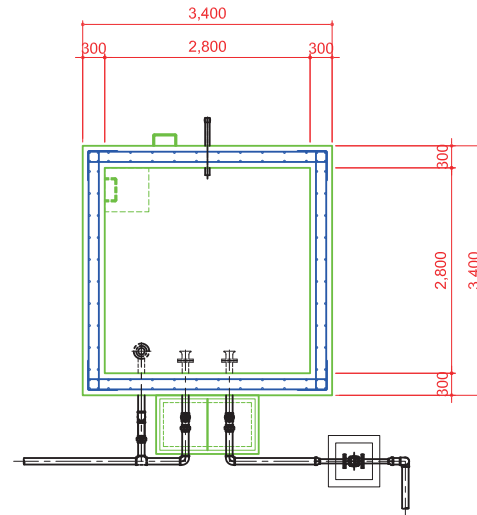


# Reservoir Tank : Reinforced Concrete Type Kela(V=15.7m3)

**Plan View**

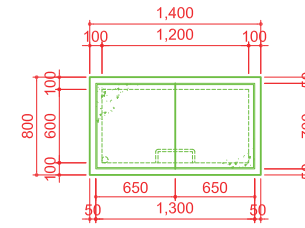


**Cutaway View**

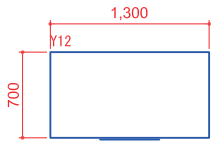
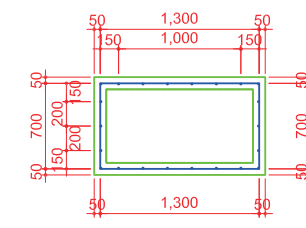


**Concrete Box - A type**

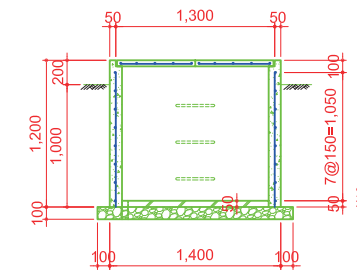
**Plan View**



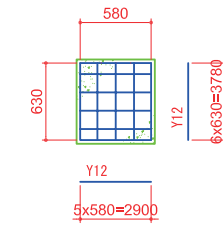
**Cutaway View**



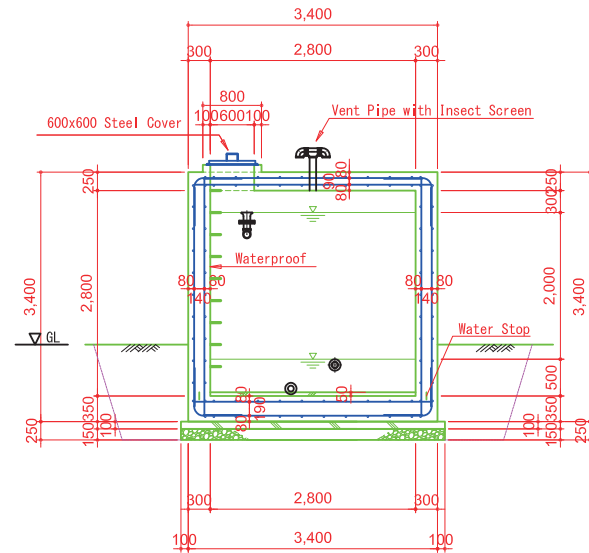
**Front View**



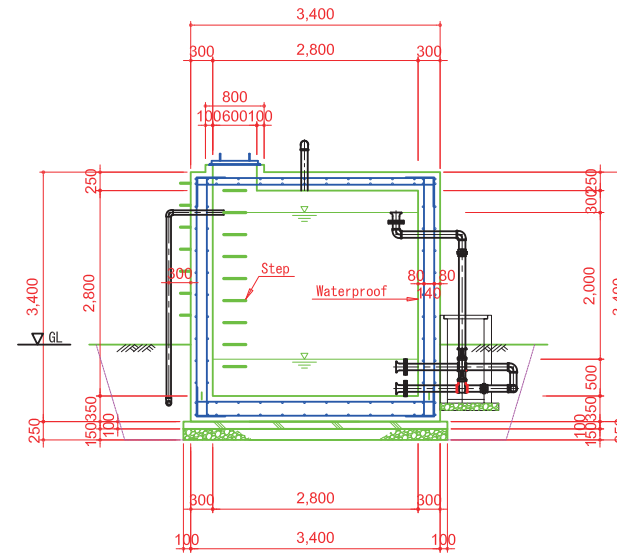
**Concrete Cover**



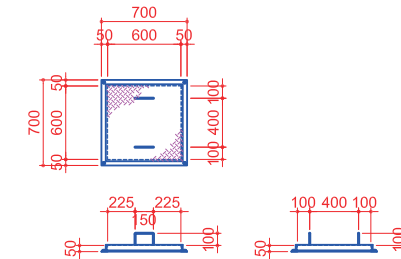
**Cutaway (Front/Rear) View**



**Cutaway (Side) View**



**Steel Cover**



**MATERIAL LIST**

Item	Quantity
Steel Cover 600x600x50 (t=6mm)	2
Structure Steel L-shape 50x50 L=2800mm	2
Handle (steel)	4

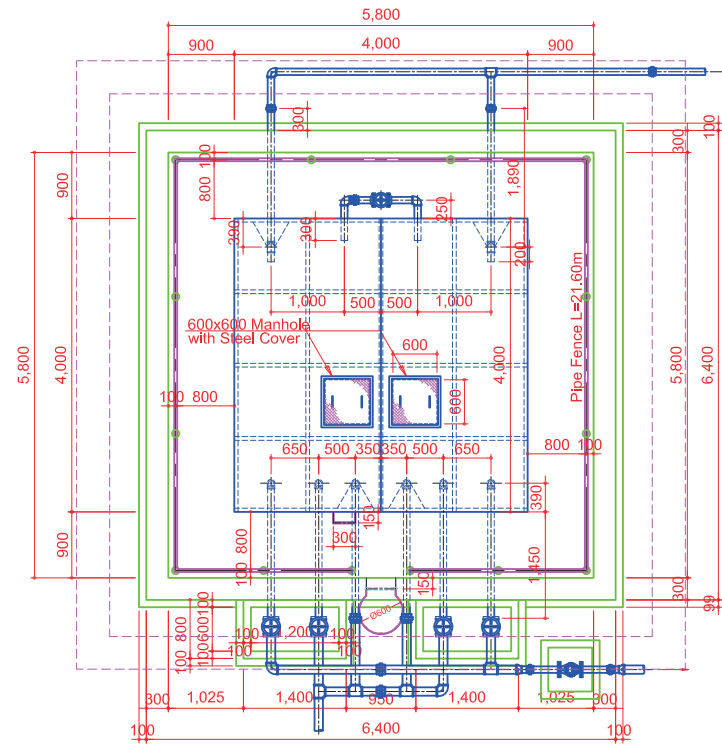
Note: Anti-corrosive paint shall be applied for all parts.  
All parts shall be welded.

APPROVED	NOTE	PROJECT NO.	PROJECT NAME	TITLE	DWG NO.
CHECKED			The Project Water Supply Development to the Small Towns in Rift Valley Basin in Southern Nations Nationalities and People's Regional State	Reservoir Tank Structural Drawing Kela (15.7m3)	00
DRAWN		DATE		SCALE 1 : 50 - (A1) 1 : 100 - (A3)	

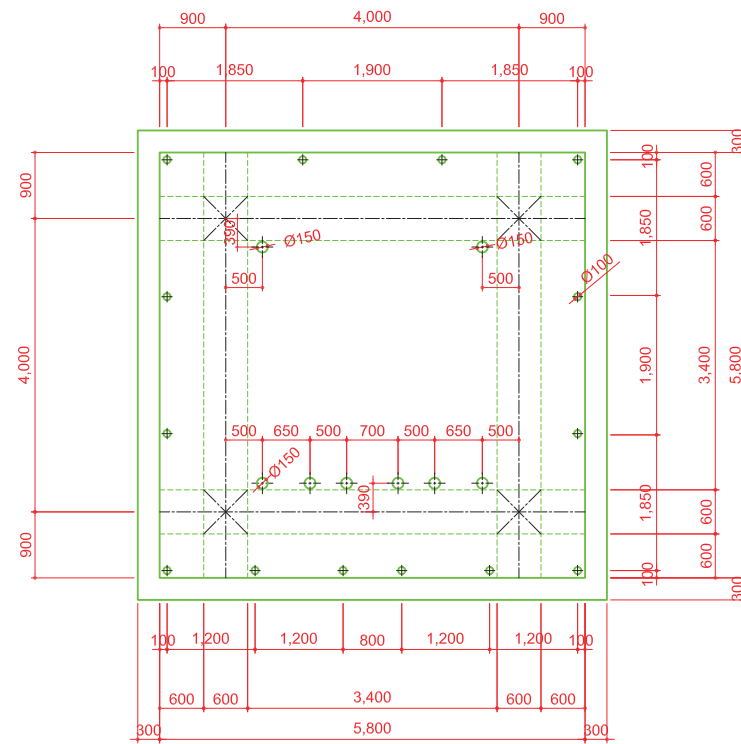


# Reservoir Tank : Elevated Type Tiya (V=33m<sup>3</sup>)

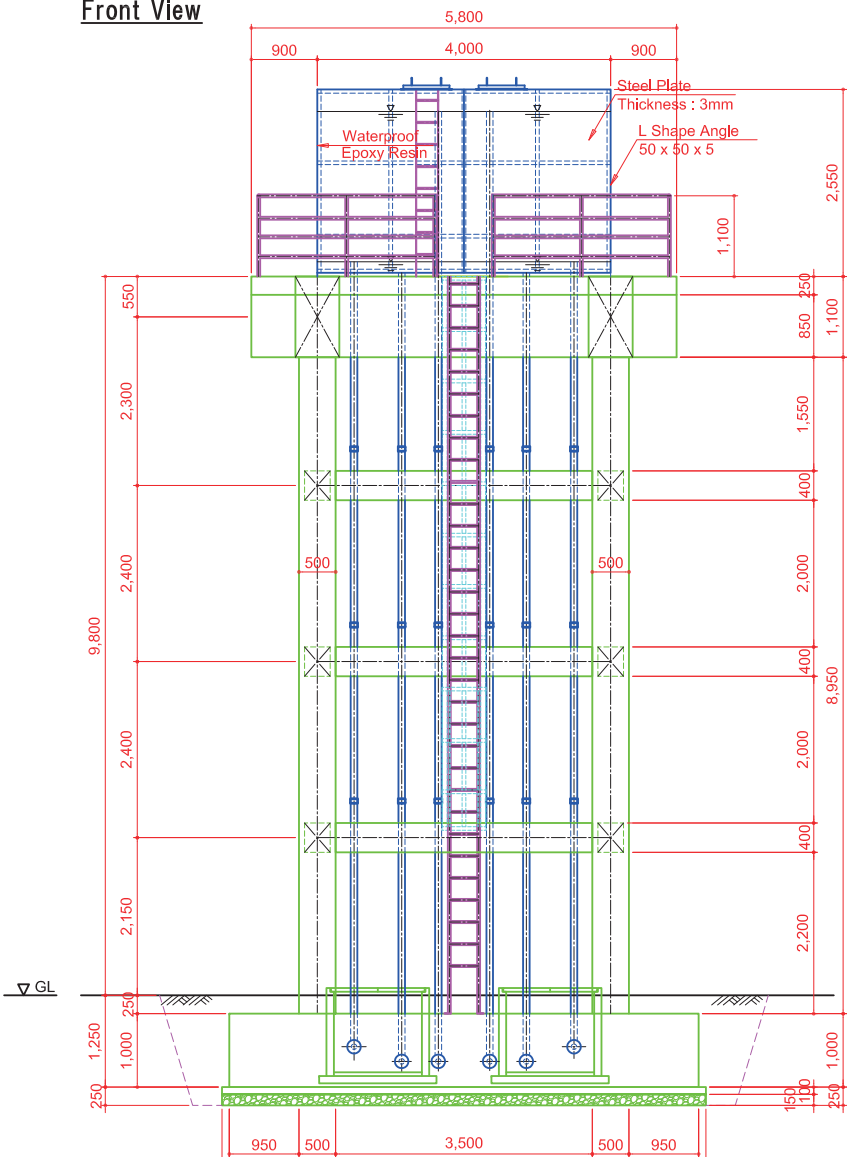
**Plan View**



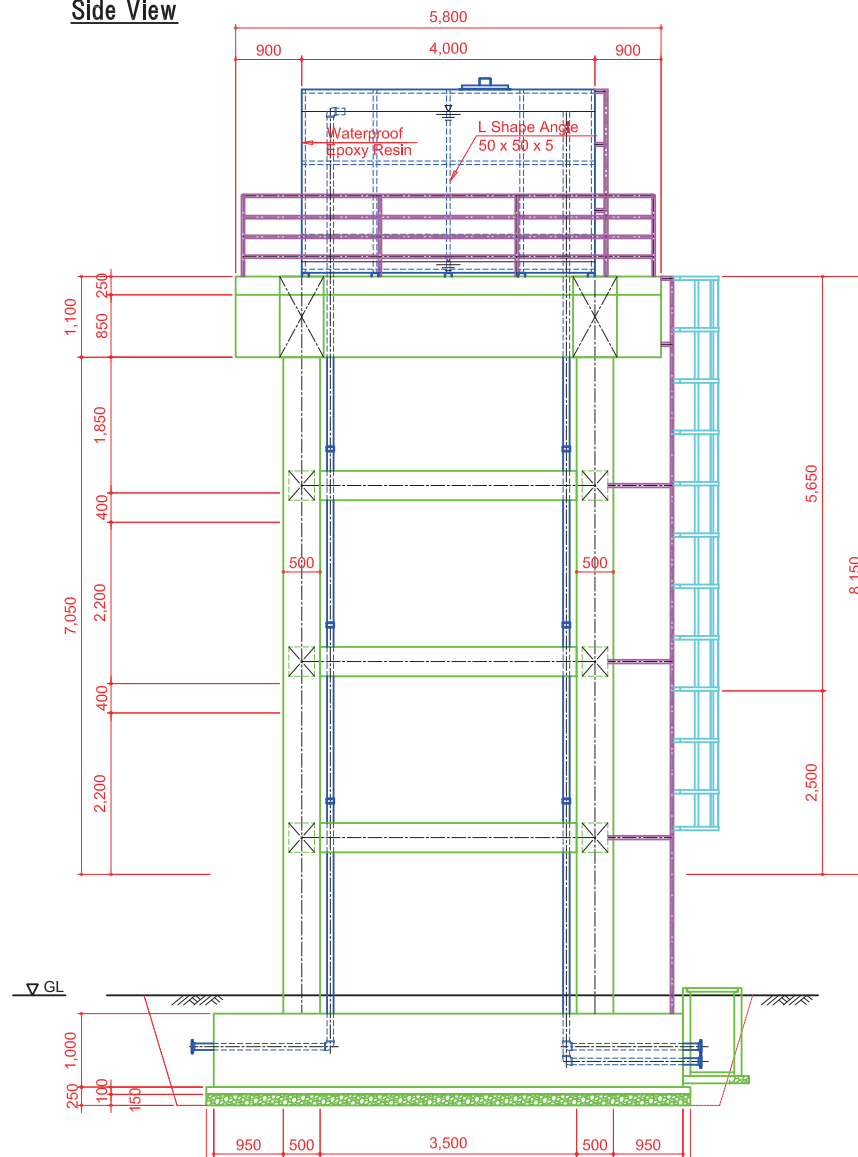
**Plan View (Overhead Structure)**



**Front View**

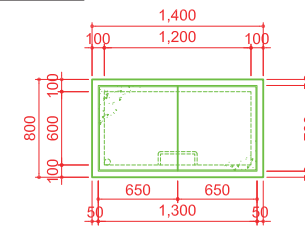


**Side View**

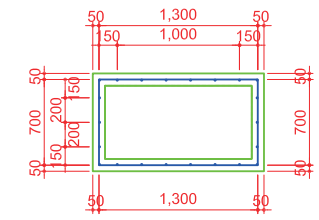


**Concrete Box - A type**

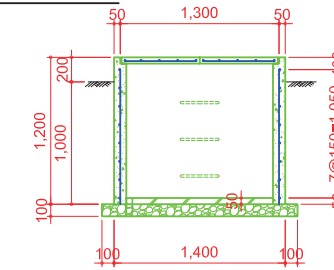
**Plan View**



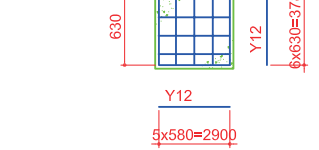
**Cutaway View**



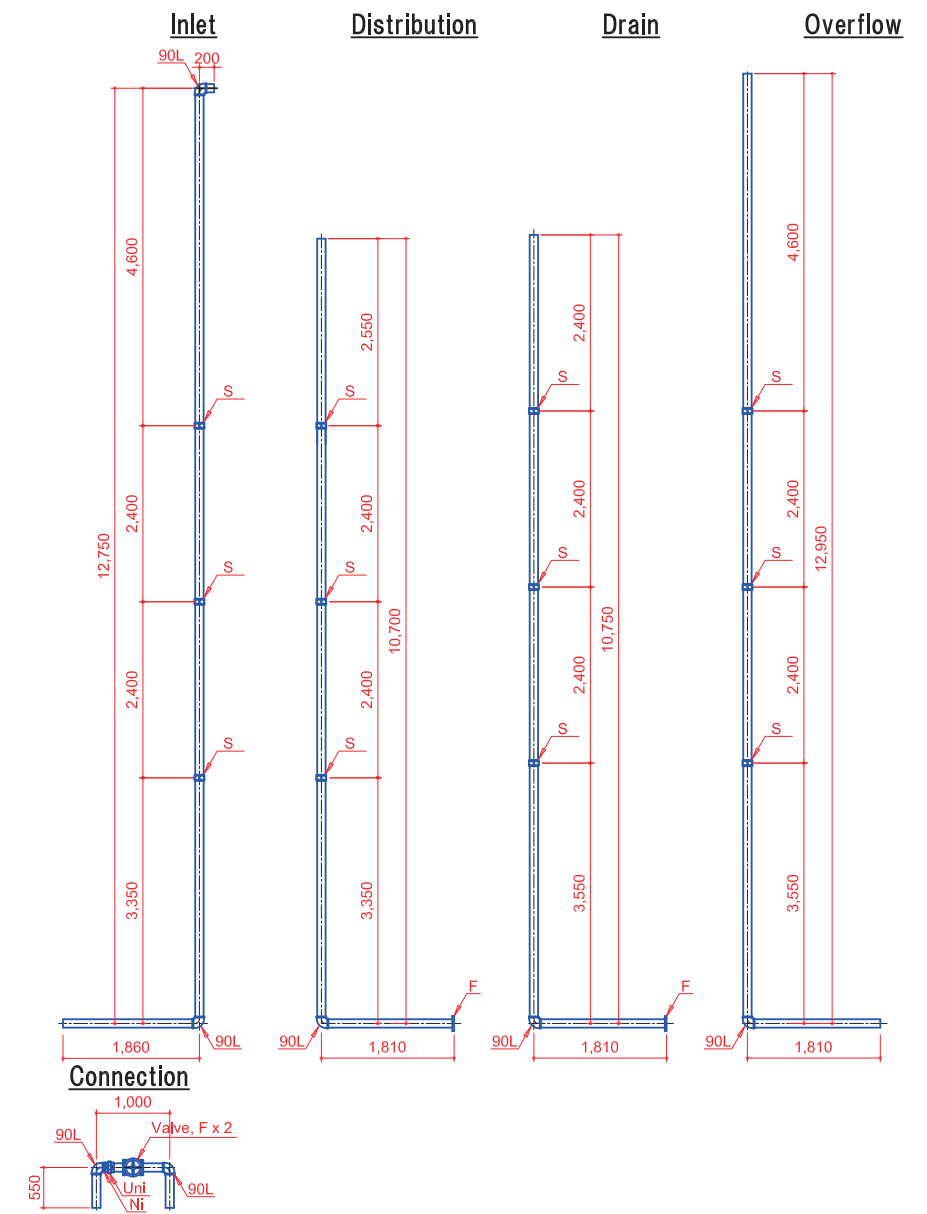
**Front View**



**Concrete Cover**



**Pipe Detail**

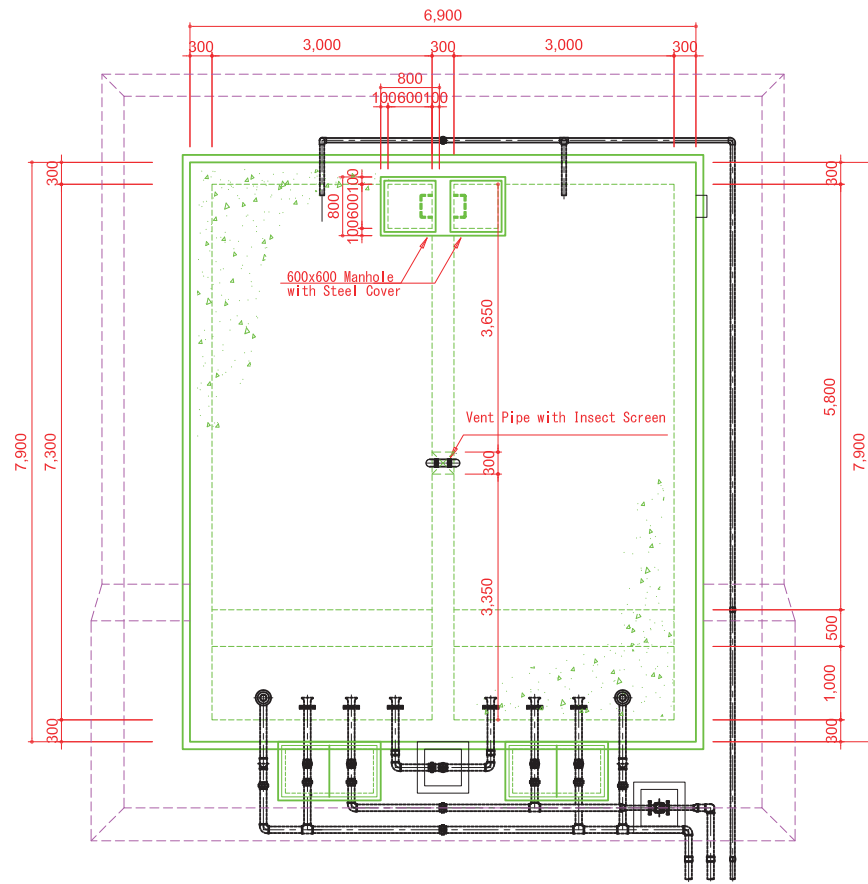


APPROVED CHECKED DRAWN	NOTE	PROJECT NO. DATE	PROJECT NAME The Project Water Supply Development to the Small Towns in Rift Valley Basinin Southern Nations Nationalities and People's Regional State	TITLE Reservoir Tank: Elevated Type Tiya (33m <sup>3</sup> ) Structural Drawing	DWG NO. 00
			SCALE 1:50 - (A1) 1:100 - (A3)		

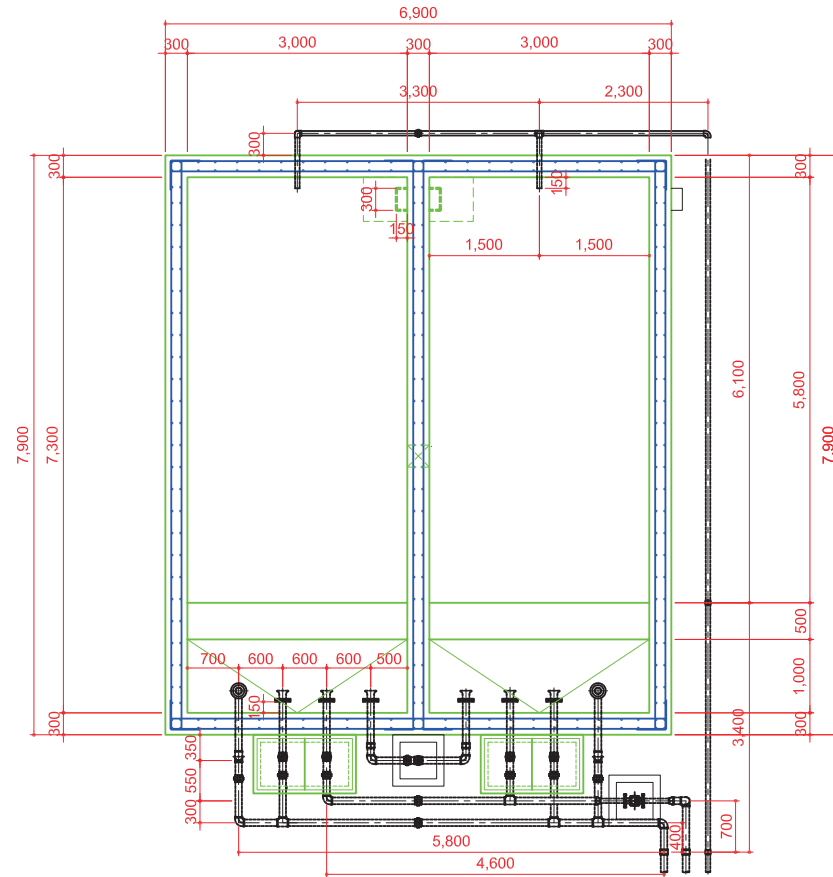


# Reservoir Tank : Reinforced Concrete Type Adilo(V=100.7m3)

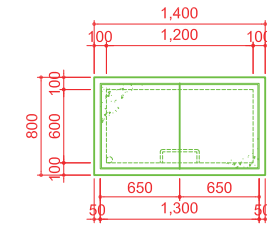
**Plan View**



**Cutaway View**

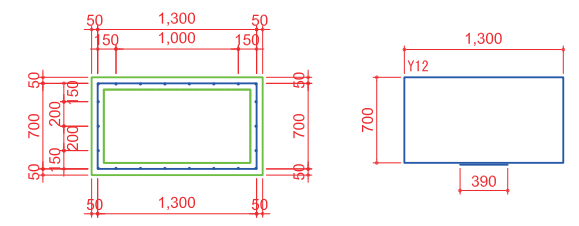


**Plan View**

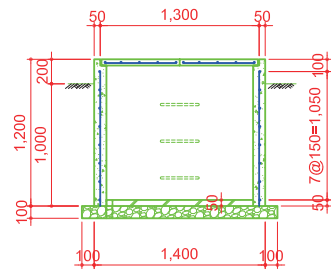


**Concrete Box - A type**

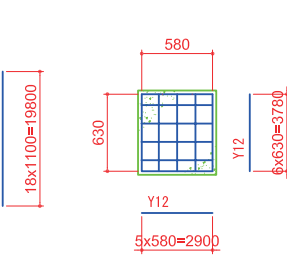
**Cutaway View**



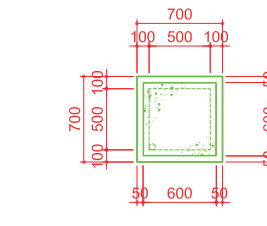
**Front View**



**Concrete Cover**

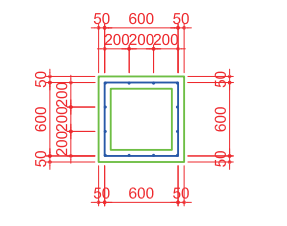


**Plan View**

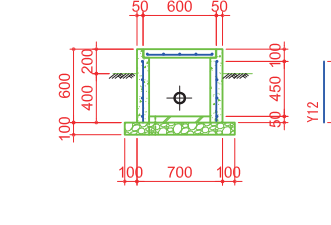


**Concrete Box - B type**

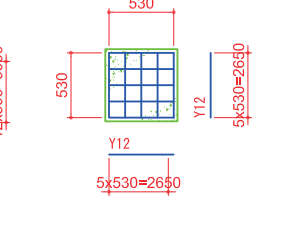
**Cutaway View**



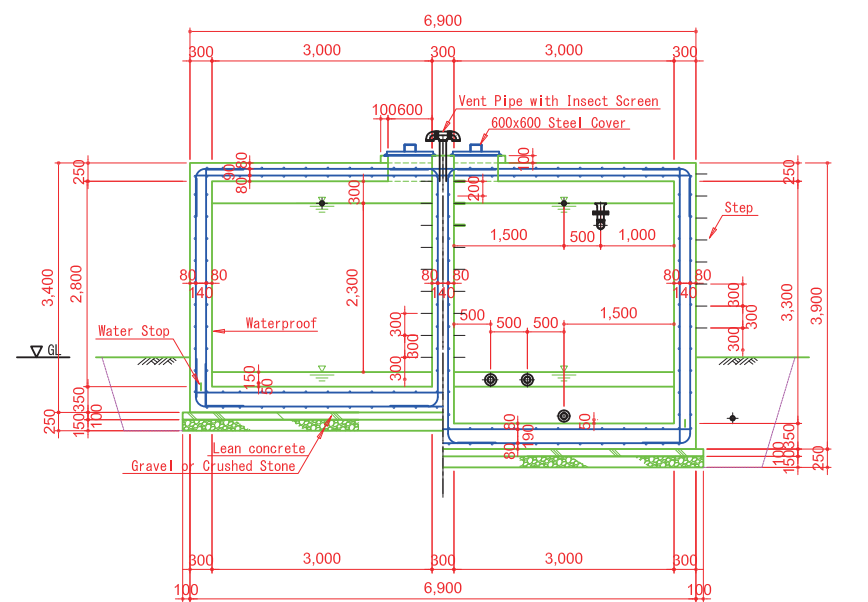
**Front View**



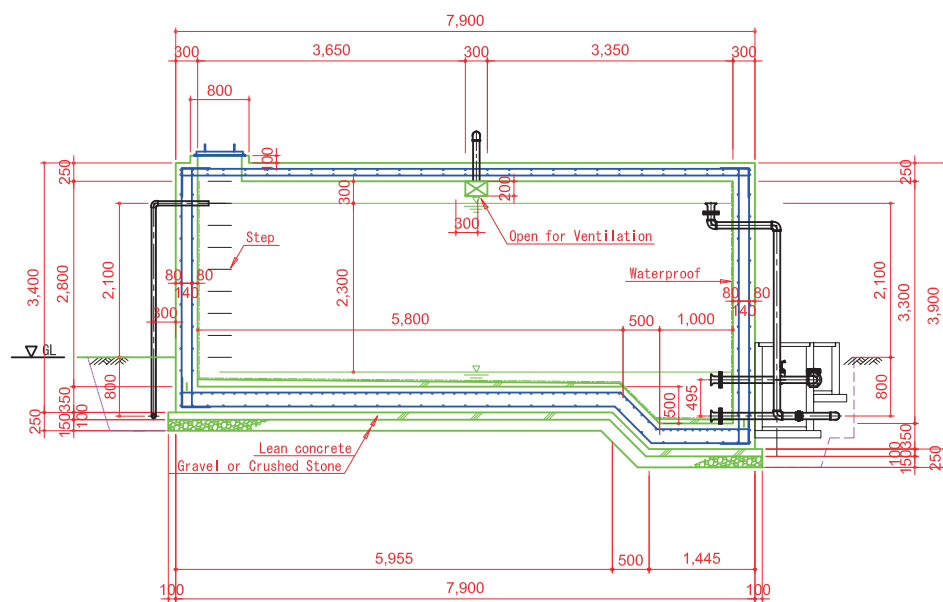
**Concrete Cover**



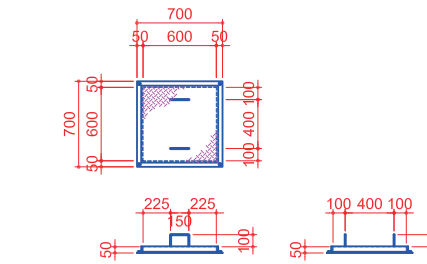
**Cutaway (Front/Rear) View**



**Cutaway (Side) View**



**Steel Cover**



**MATERIAL LIST**

Item	Quantity
Steel Cover 600x600x50 (t=6mm)	2
Structure Steel L-shape 50x50 L=2800mm	2
Handle (steel)	4

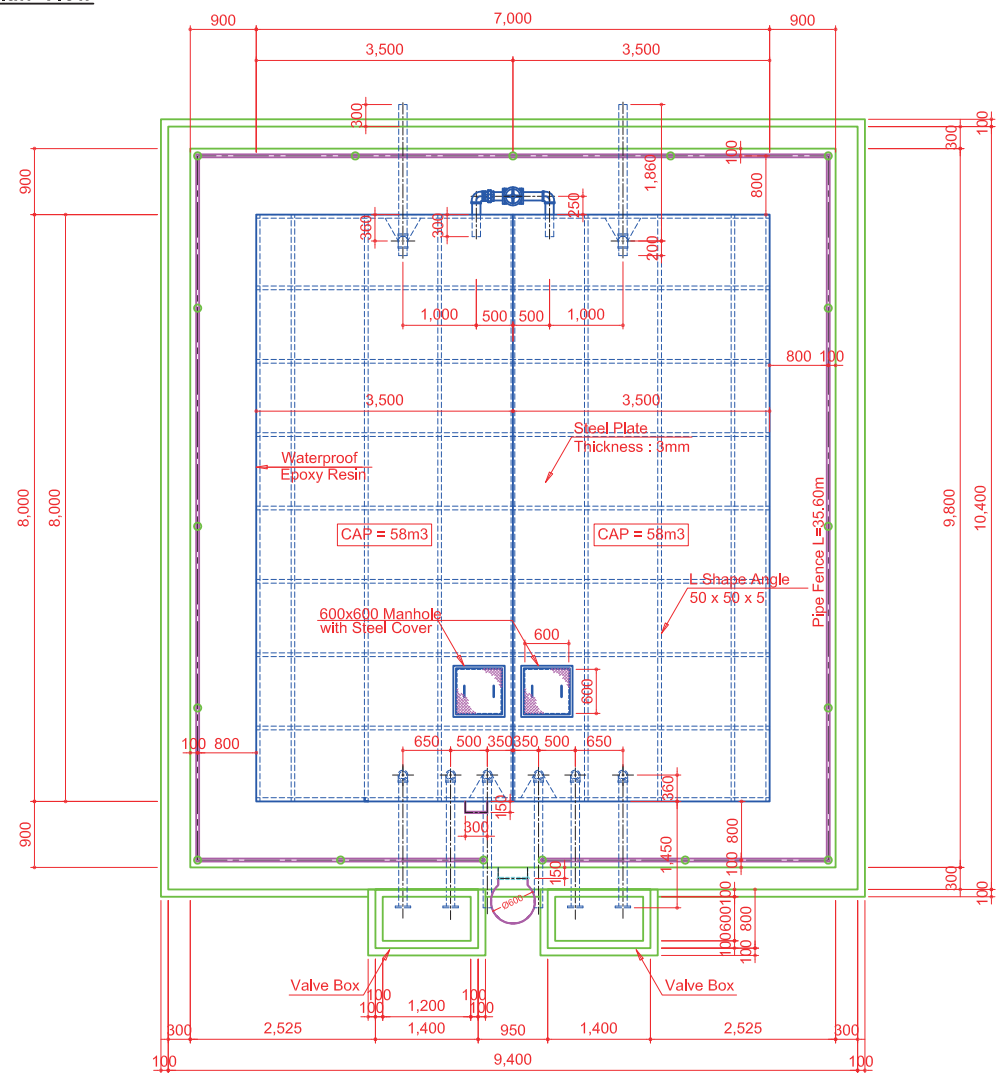
Note: Anti-corrosive paint shall be applied for all parts. All parts shall be welded.

APPROVED	NOTE	PROJECT NO.	PROJECT NAME	TITLE	DWG NO.
CHECKED			The Project Water Supply Development to the Small Towns in Rift Valley Basin in Southern Nations Nationalities and People's Regional State	Reservoir Tank Structural Drawing Adilo (100,7m3)	00
DRAWN		DATE		SCALE 1 : 50 - (A1) 1 : 100 - (A3)	

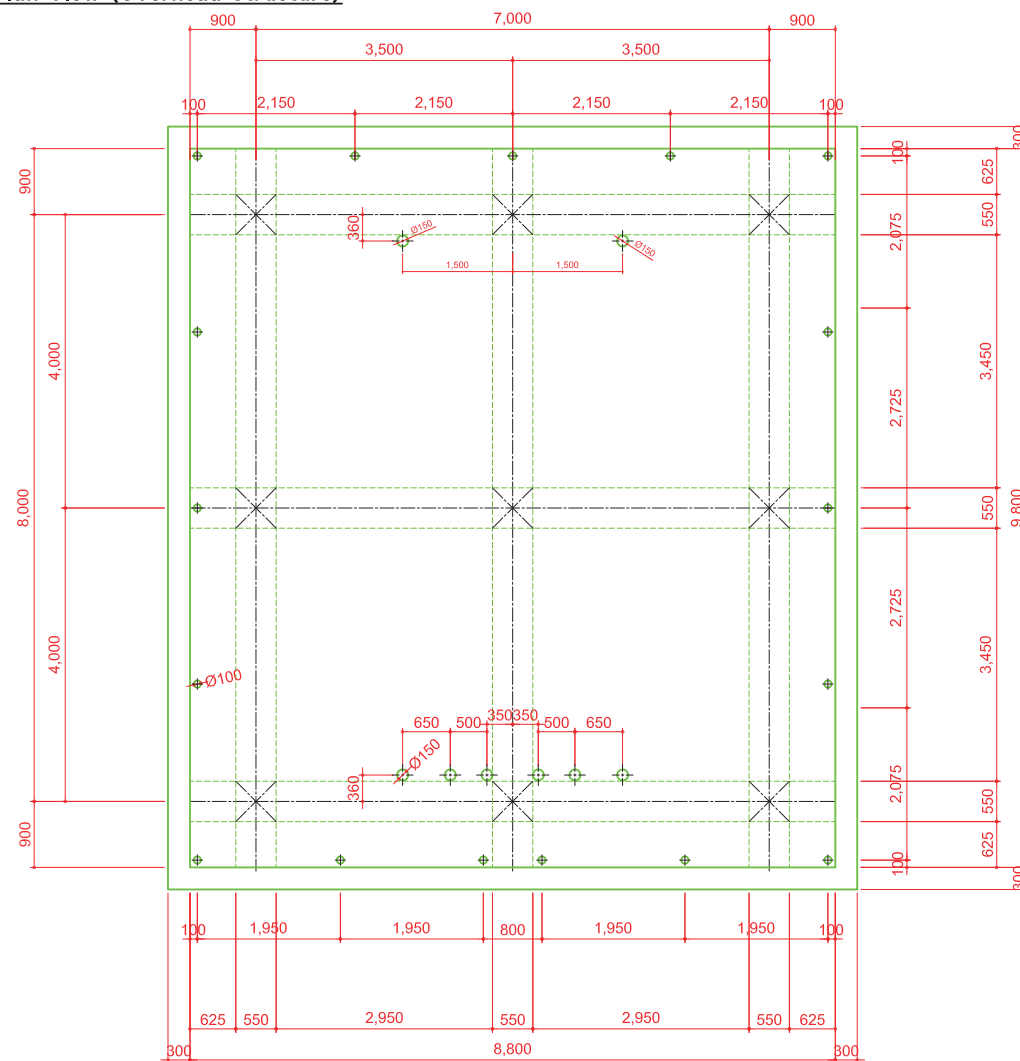


# Reservoir Tank (Teferi Kela) : Elevated Type (V=115m<sup>3</sup>)

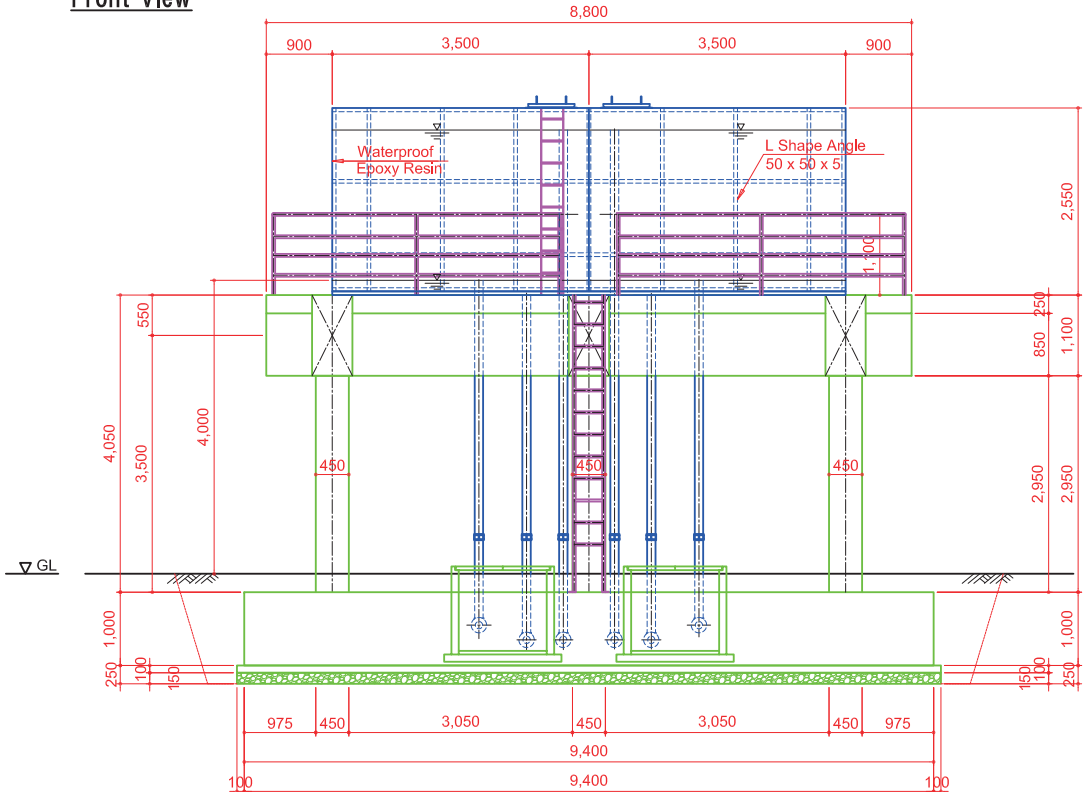
**Plan View**



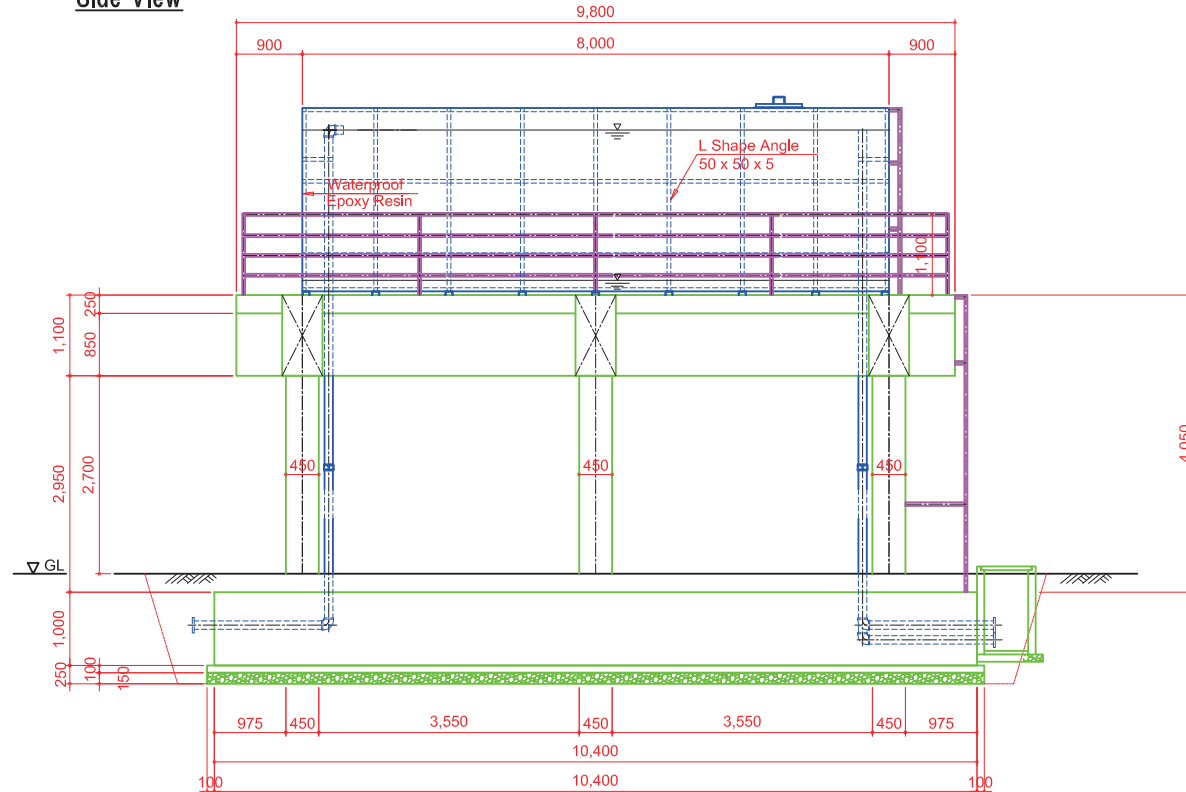
**Plan View (Overhead Structure)**



**Front View**



**Side View**



APPROVED	NOTE
CHECKED	
DRAWN	

PROJECT NO.	PROJECT NAME
DATE	

The Project Water Supply Development to the Small Towns in Rift Valley Basin in Southern Nations Nationalities and People's Regional State

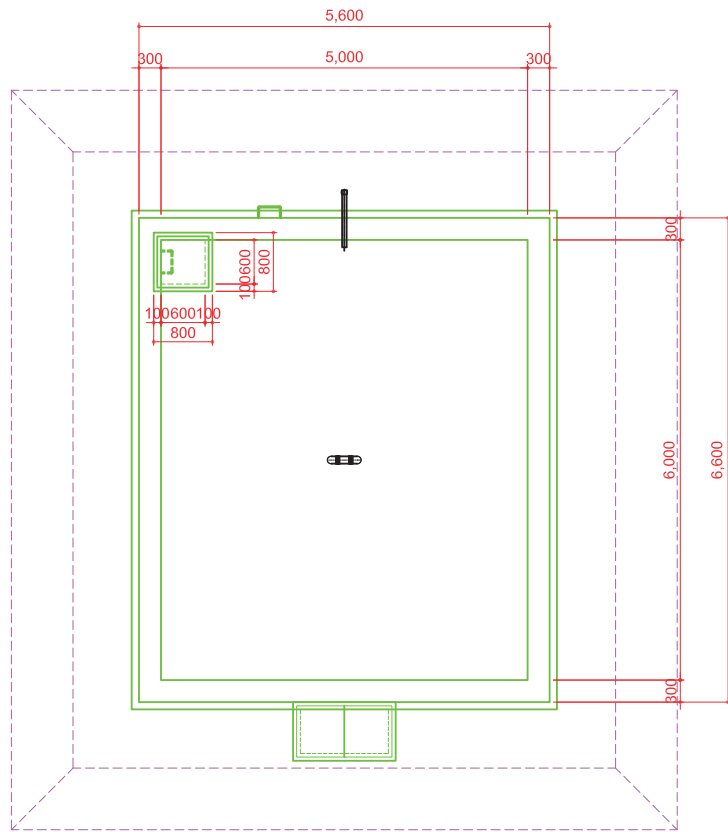
TITLE	Reservoir Tank: Elevated Type Teferi Kela (115m <sup>3</sup> ) Structural Drawing
SCALE	

DWG NO.	00
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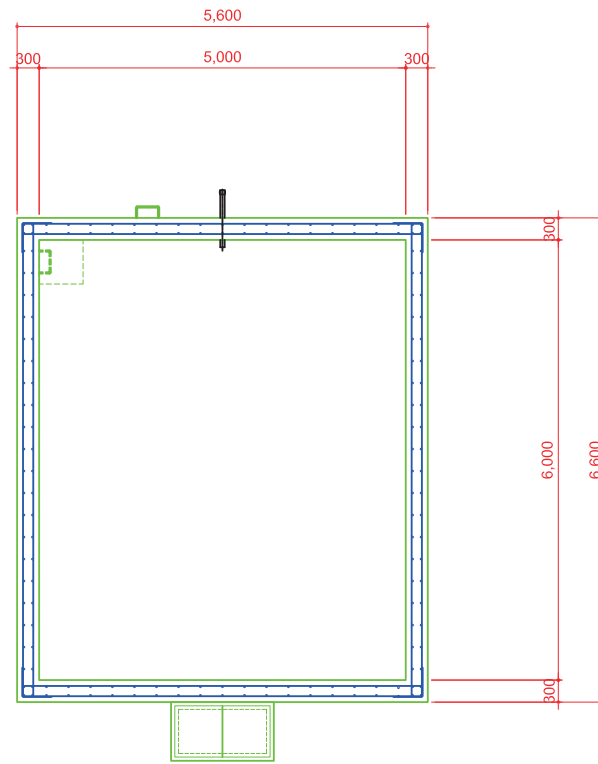


# Collection Chamber : Reinforced Concrete Type Dalocha(V=60.0m3)

**Plan View**

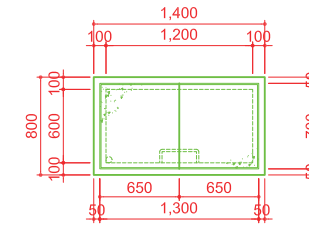


**Cutaway View**

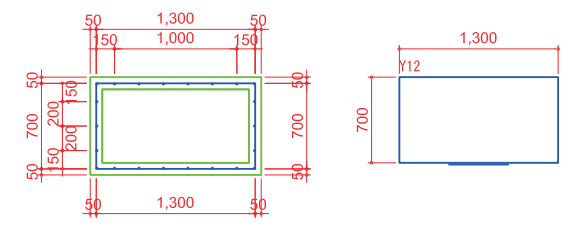


**Concrete Box - A type**

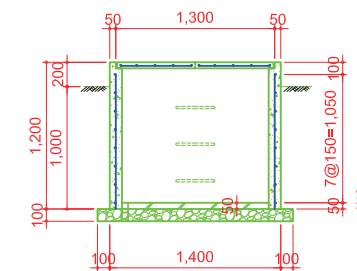
**Plan View**



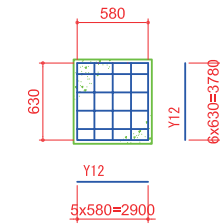
**Cutaway View**



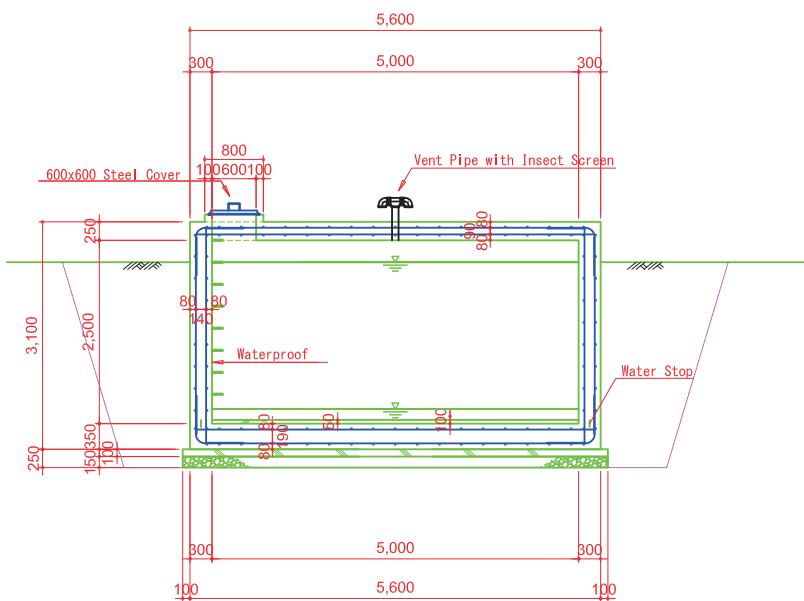
**Front View**



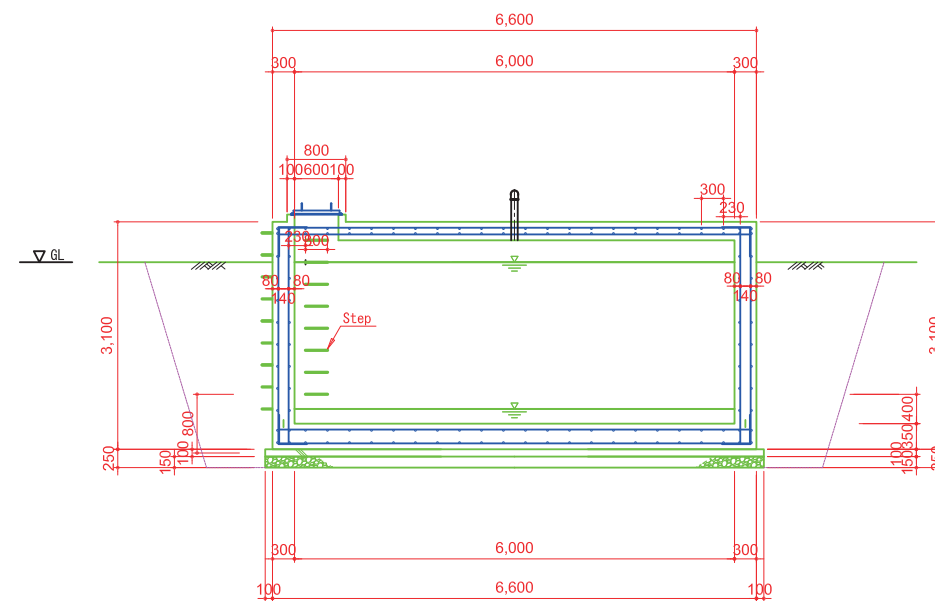
**Concrete Cover**



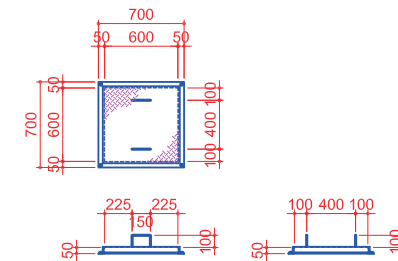
**Cutaway (Front/Rear) View**



**Cutaway (Side) View**



**Steel Cover**



**MATERIAL LIST**

Item	Quantity
Steel Cover 600x600x50 (t=6mm)	2
Structure Steel L-shape 50x50 L=2800mm	2
Handle (steel)	4

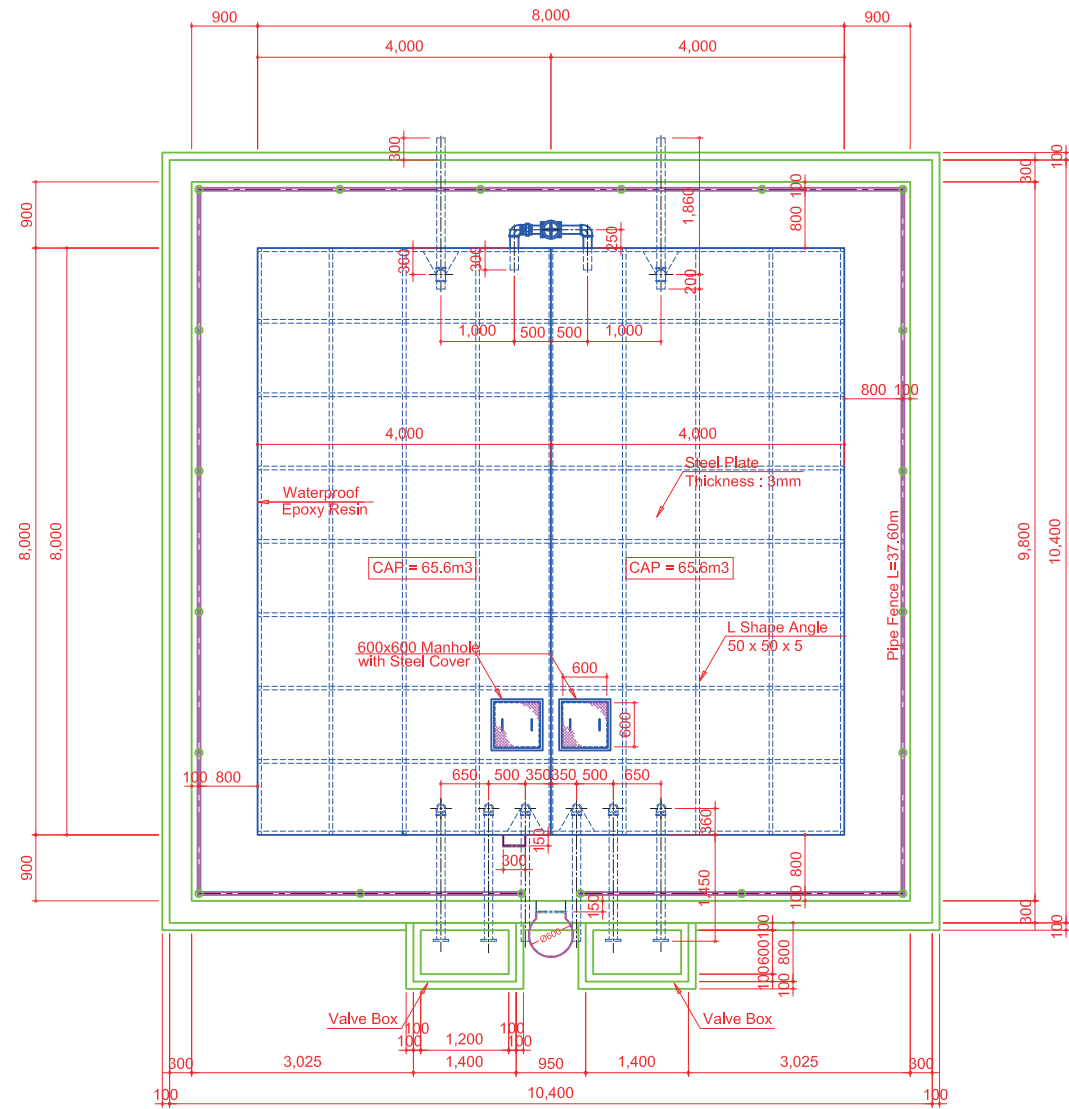
Note: Anti-corrosive paint shall be applied for all parts.  
All parts shall be welded.

APPROVED	NOTE	PROJECT NO.	PROJECT NAME	TITLE	DWG NO.
CHECKED			The Project Water Supply Development to the Small Towns in Rift Valley Basinin Southern Nations Nationalities and People's Regional State	Reservoir Tank Structural Drawing Dalocha (60,0m3)	00
DRAWN		DATE		SCALE 1 : 50 - (A1) 1 : 100 - (A3)	

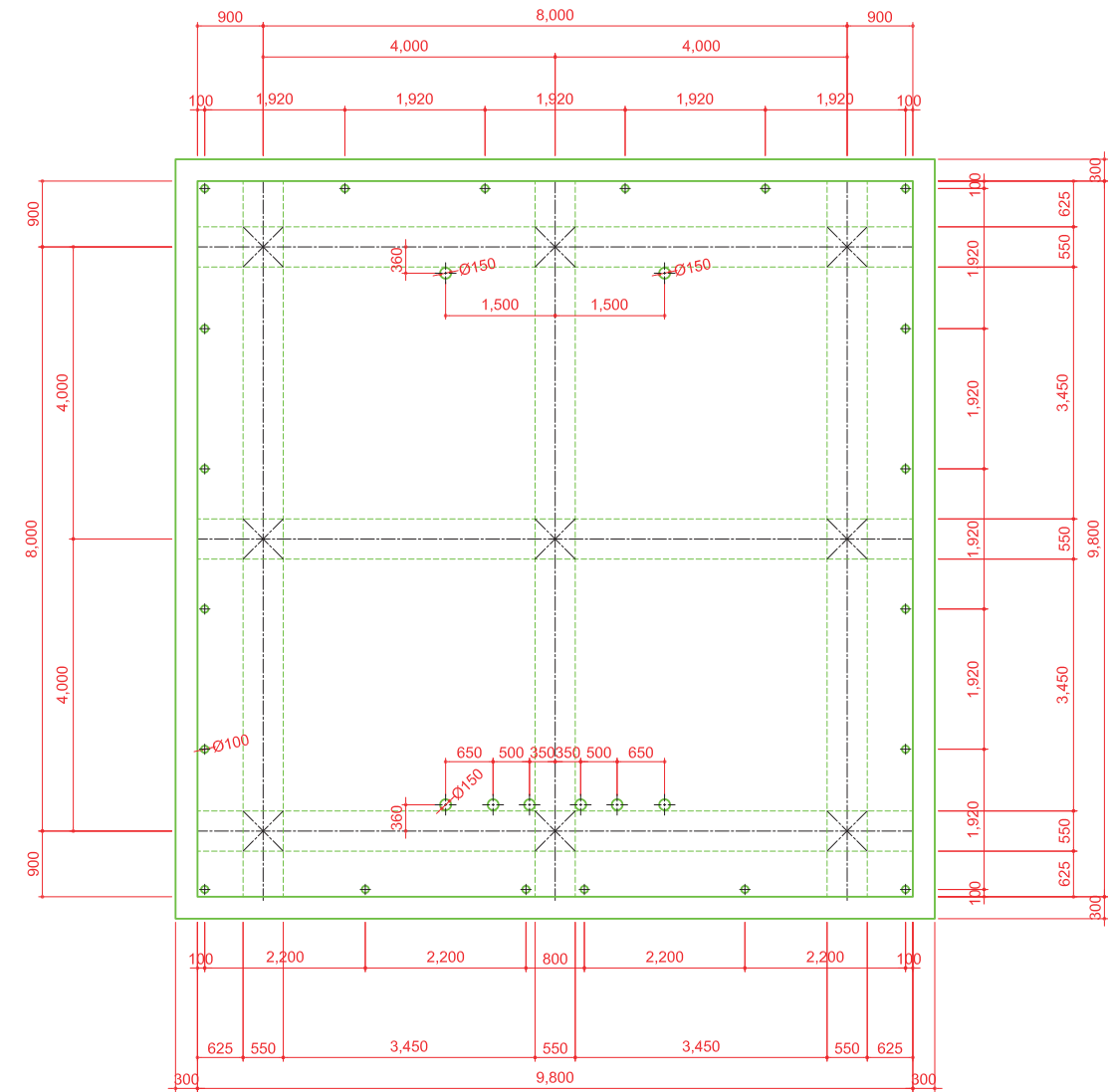


# Reservoir Tank : Elevated Type Mito (V=131m3)

**Plan View**



**Plan View (Overhead Structure)**

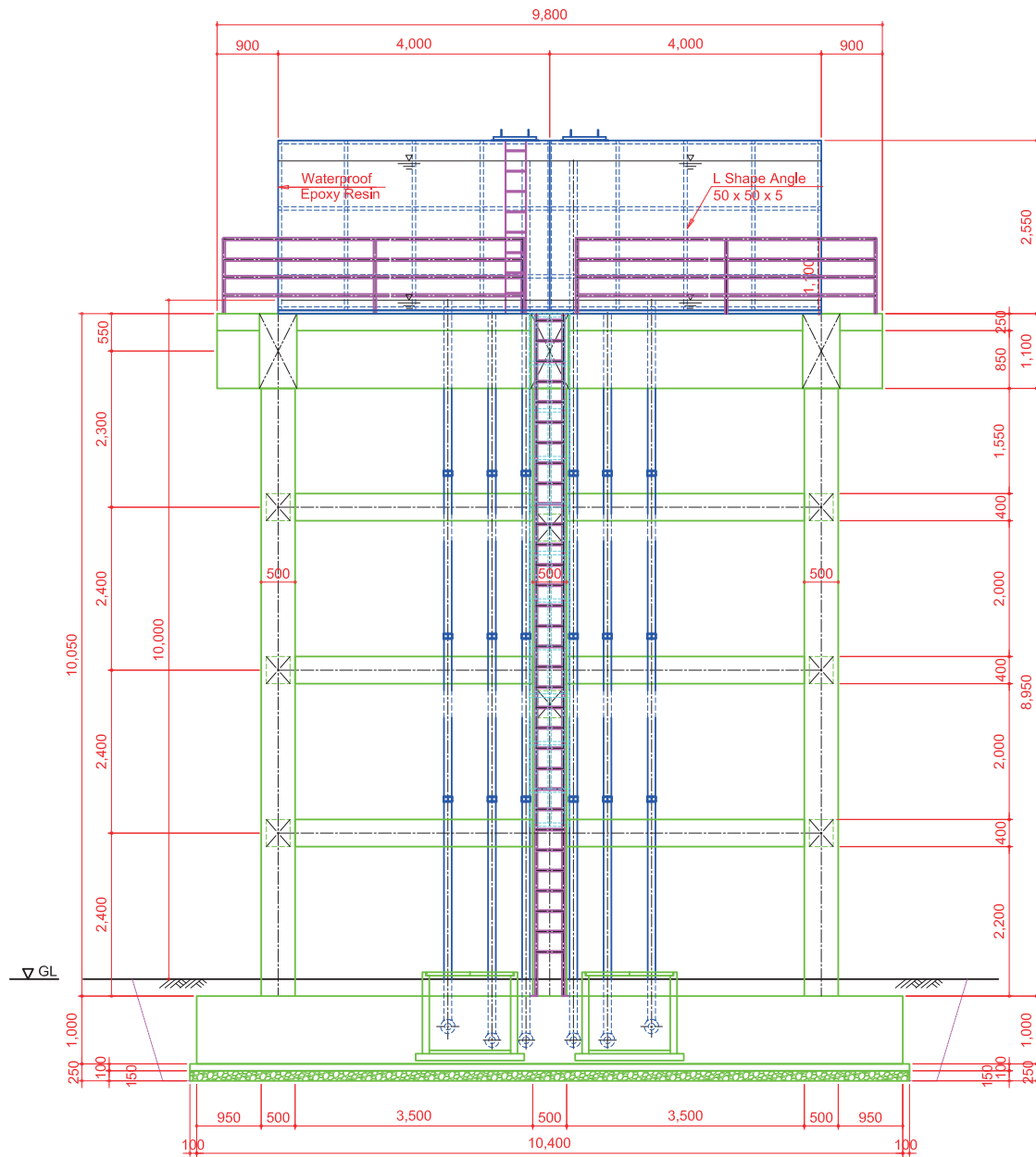


	APPROVED	NOTE	PROJECT NO.	PROJECT NAME	TITLE	DWG NO.
	CHECKED			The Project Water Supply Development to the Small Towns in Rift Valley Basin in Southern Nations Nationalities and People's Regional State	Reservoir Tank: Elevated Type Mito (131m3) Structural Drawing (2-1)	00
	DRAWN		DATE		SCALE 1:50 — (A1) 1:100 — (A3)	

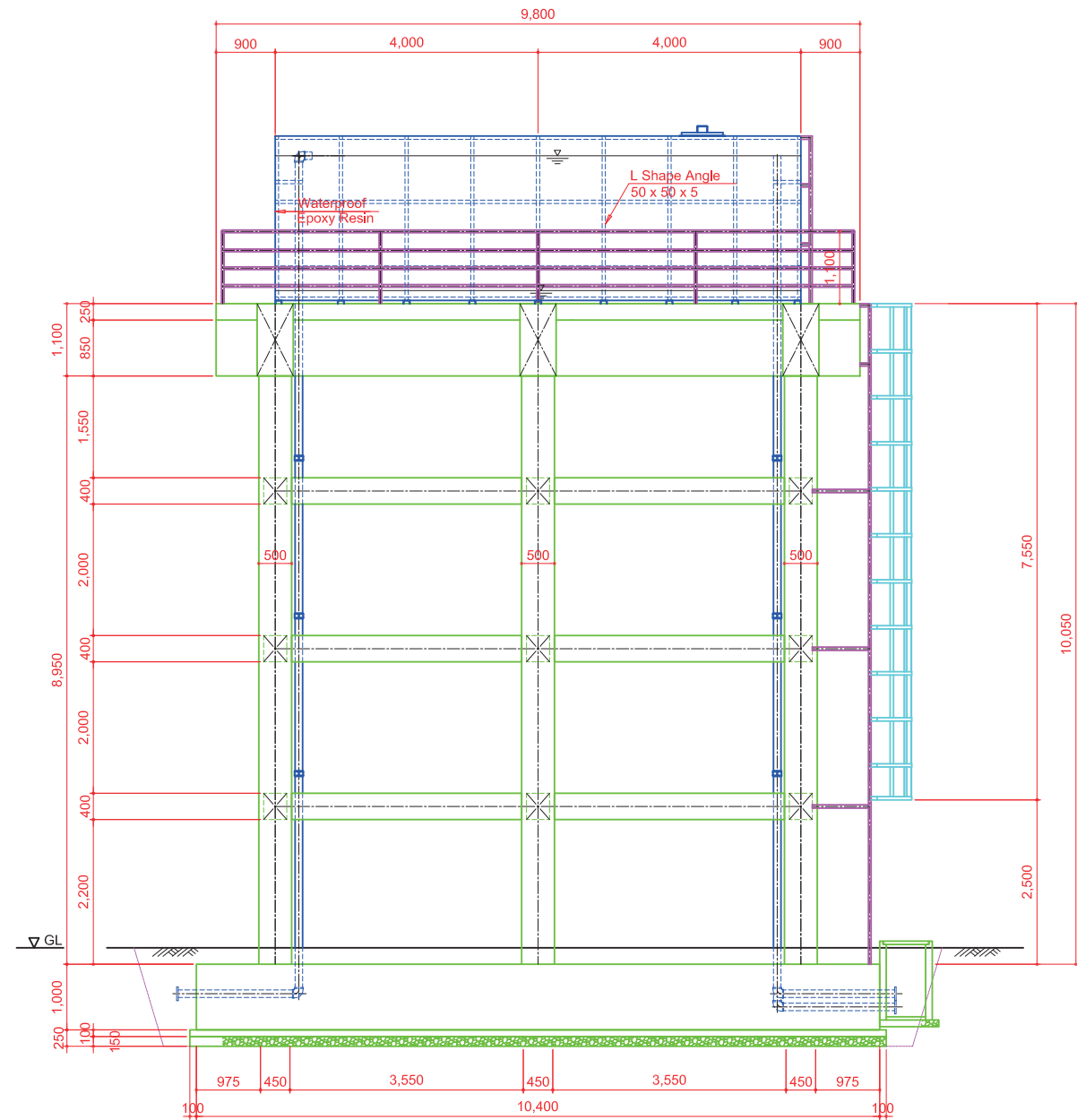


# Reservoir Tank : Elevated Type Mito (V=131m3)

Front View



Side View

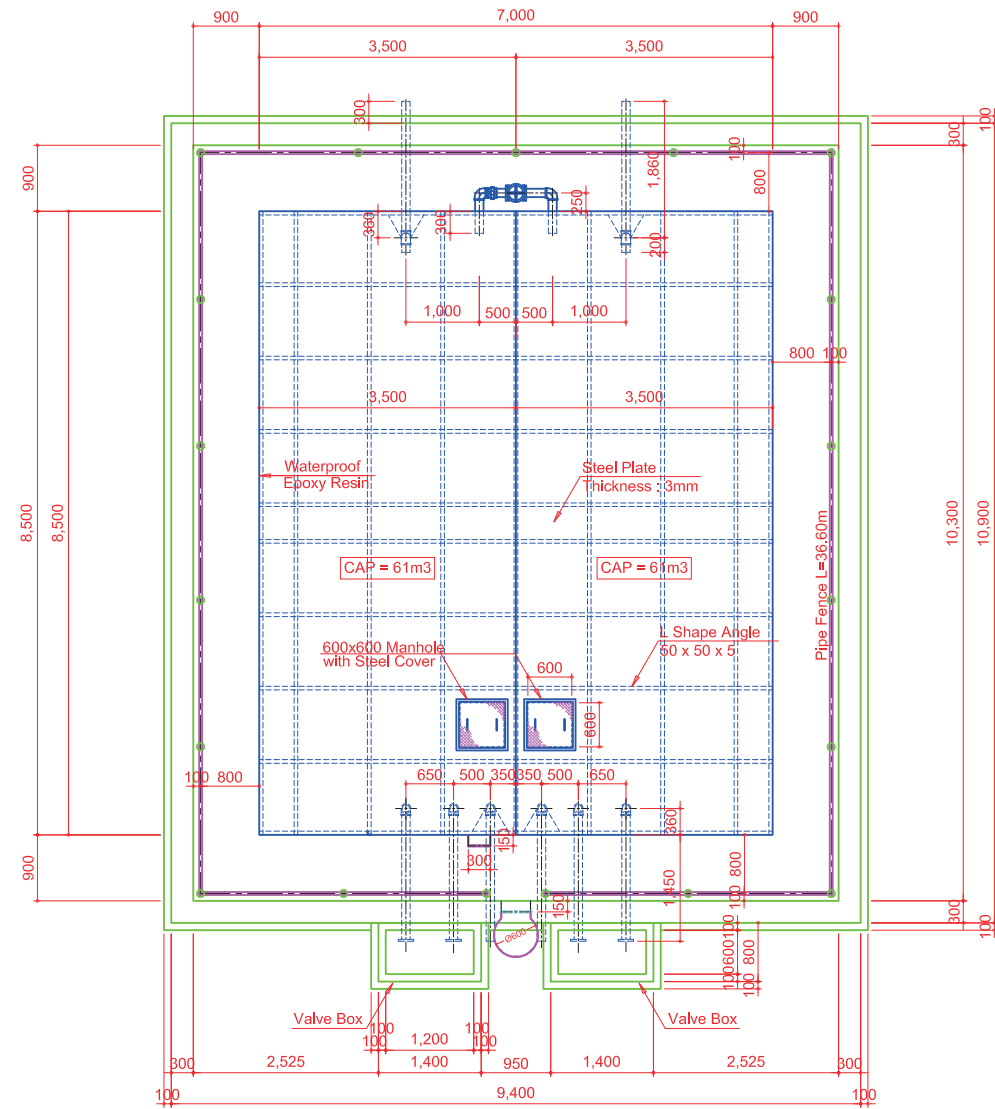


	APPROVED	NOTE	PROJECT NO.	PROJECT NAME	TITLE	DWG NO.
	CHECKED			The Project Water Supply Development to the Small Towns in Rift Valley Basinin Southern Nations Nationalities and People's Regional State	Reservoir Tank: Elevated Type Mito (131m3) Structural Drawing (2-2)	00
	DRAWN		DATE	SCALE	1:50 — (A1) 1:100 — (A3)	

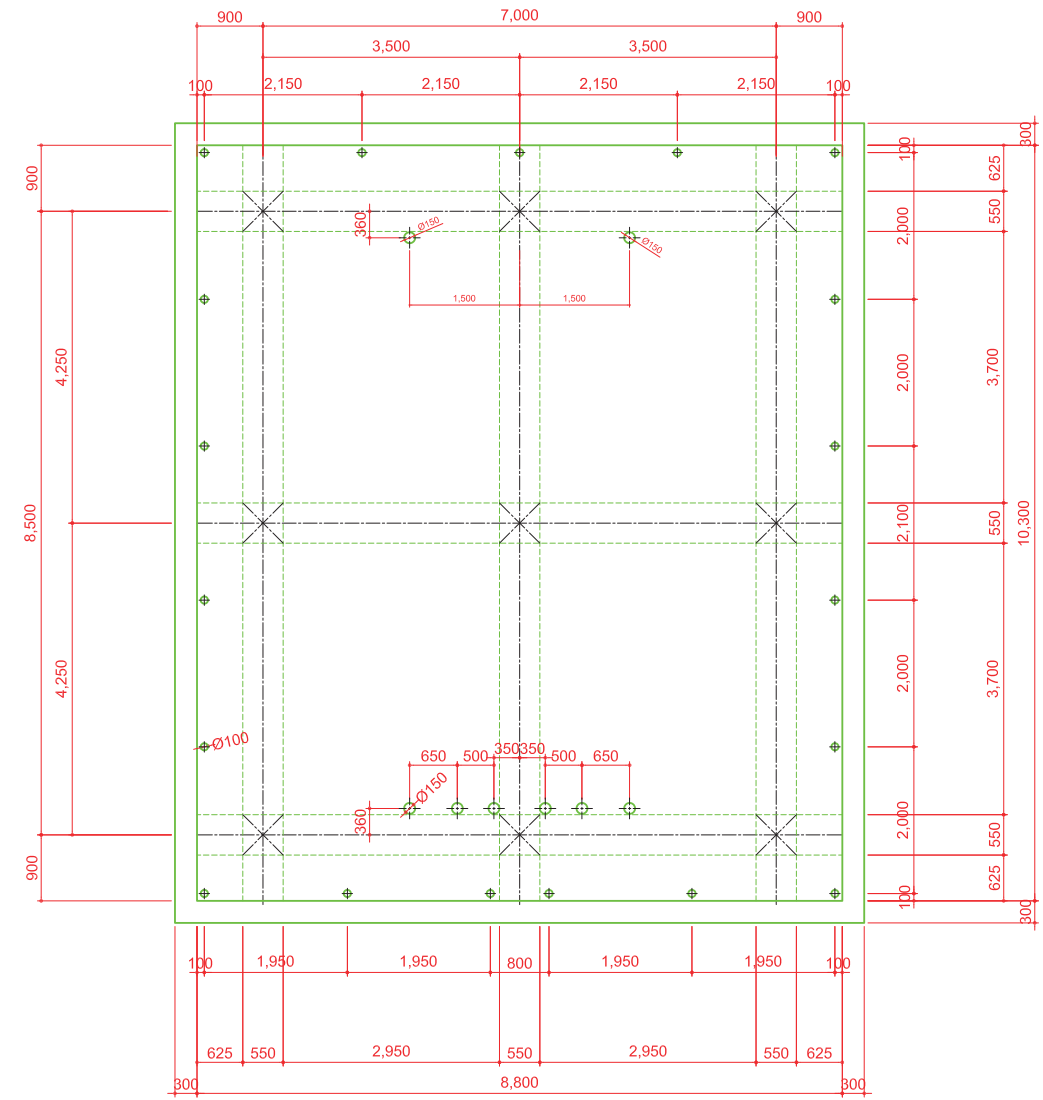


# Reservoir Tank : Elevated Type Alem Gebeya (V=122m3)

**Plan View**



**Plan View (Overhead Structure)**

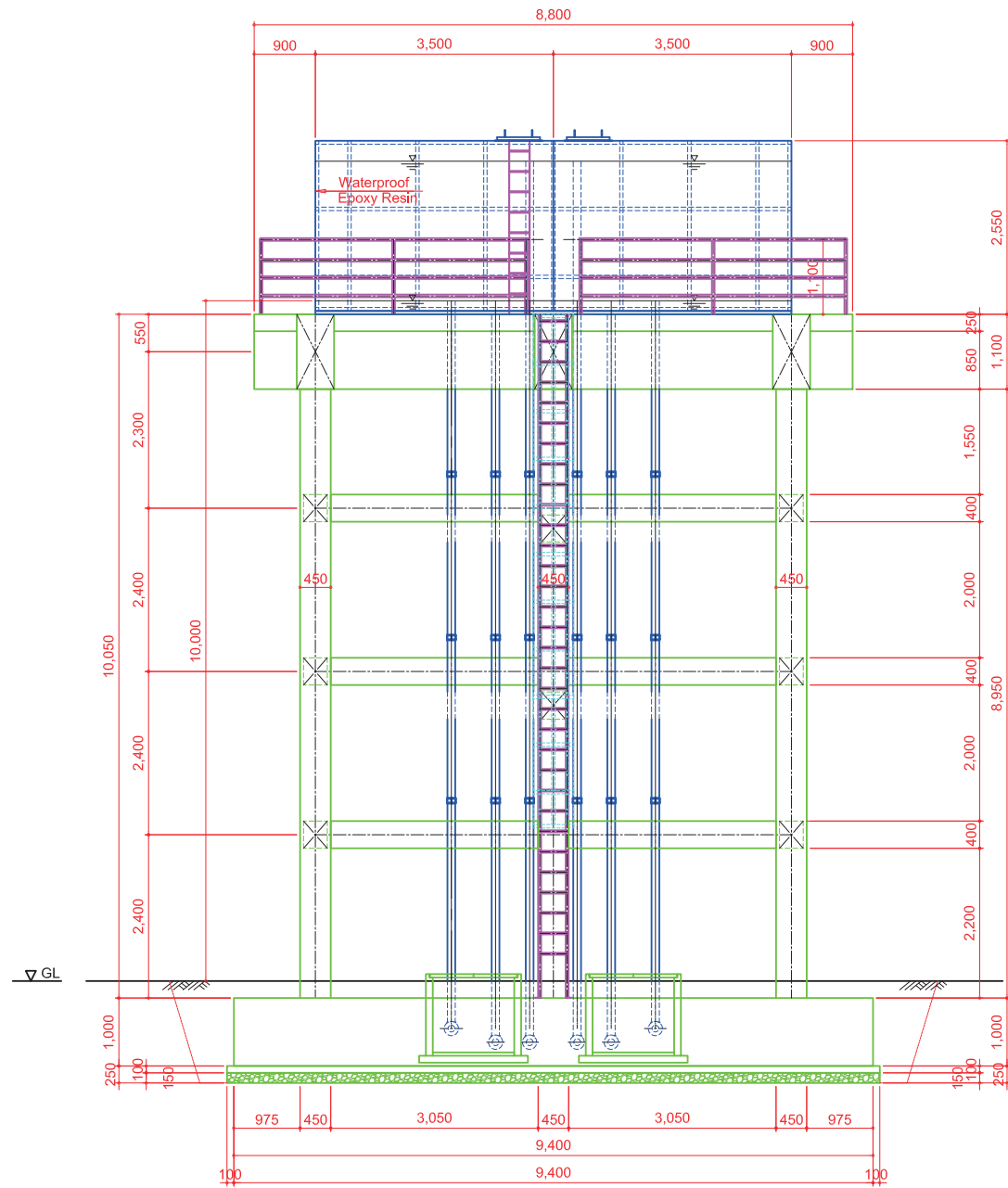


	APPROVED	NOTE	PROJECT NO.	PROJECT NAME	TITLE	DWG NO.
	CHECKED			The Project Water Supply Development to the Small Towns in Rift Valley Basinin Southern Nations Nationalities and People's Regional State	Reservoir Tank: Elevated Type Alem Gebeya (122m3) Structural Drawing (2-1)	00
	DRAWN		DATE		SCALE 1:50 — (A1) 1:100 — (A3)	

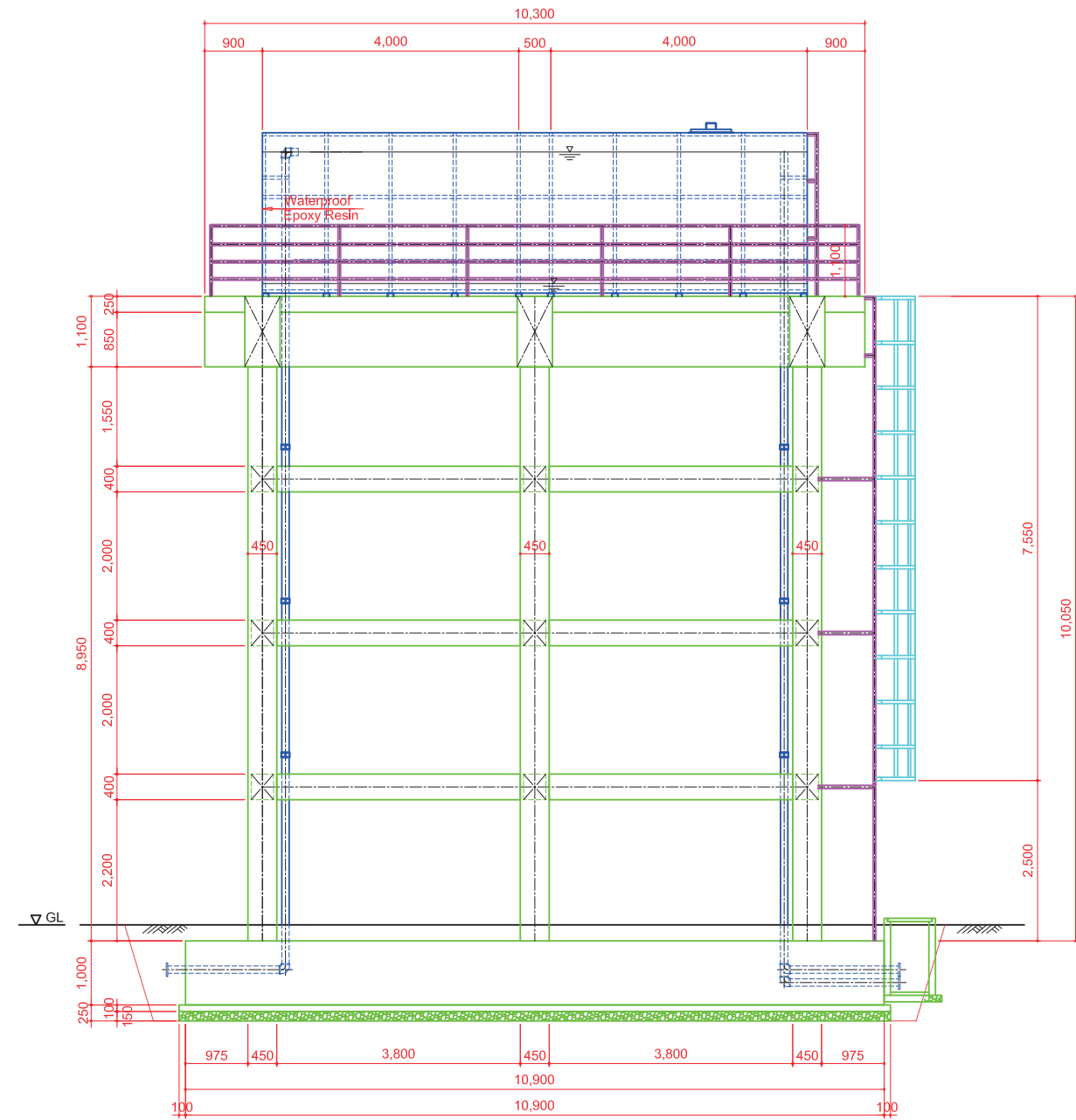


# Reservoir Tank : Elevated Type Alem Gebeya (V=122m3)

Front View



Side View

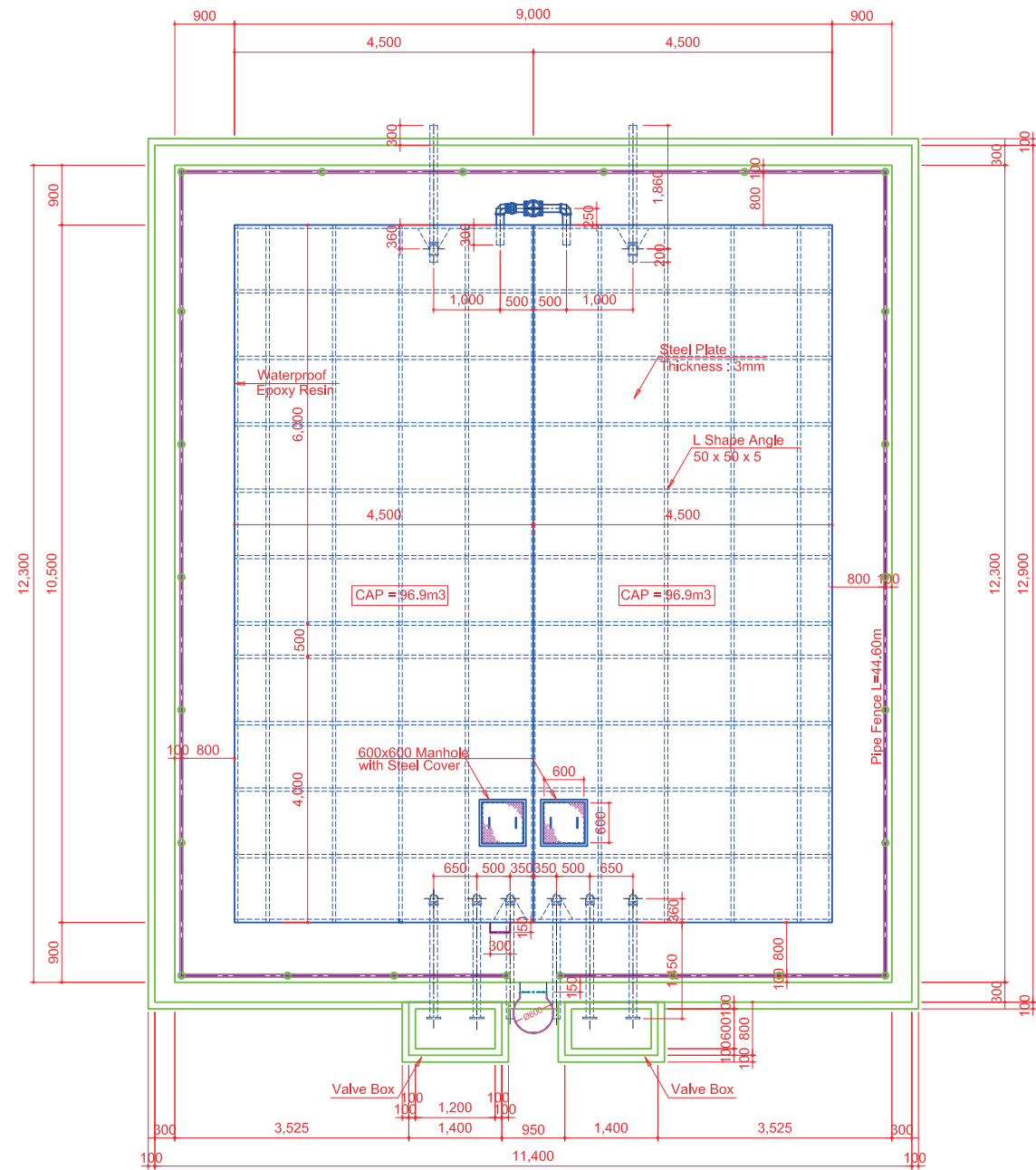


	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="font-size: small;">APPROVED</td></tr> <tr><td style="font-size: small;">CHECKED</td></tr> <tr><td style="font-size: small;">DRAWN</td></tr> </table>	APPROVED	CHECKED	DRAWN	NOTE	PROJECT NO.	PROJECT NAME The Project Water Supply Development to the Small Towns in Rift Valley Basinin Southern Nations Nationalities and People's Regional State	TITLE Reservoir Tank: Elevated Type Alem Gebeya (122m3) Structural Drawing (2-2)	DWG NO.  00
APPROVED									
CHECKED									
DRAWN									
				DATE	SCALE 1:50 — (A1) 1:100 — (A3)				

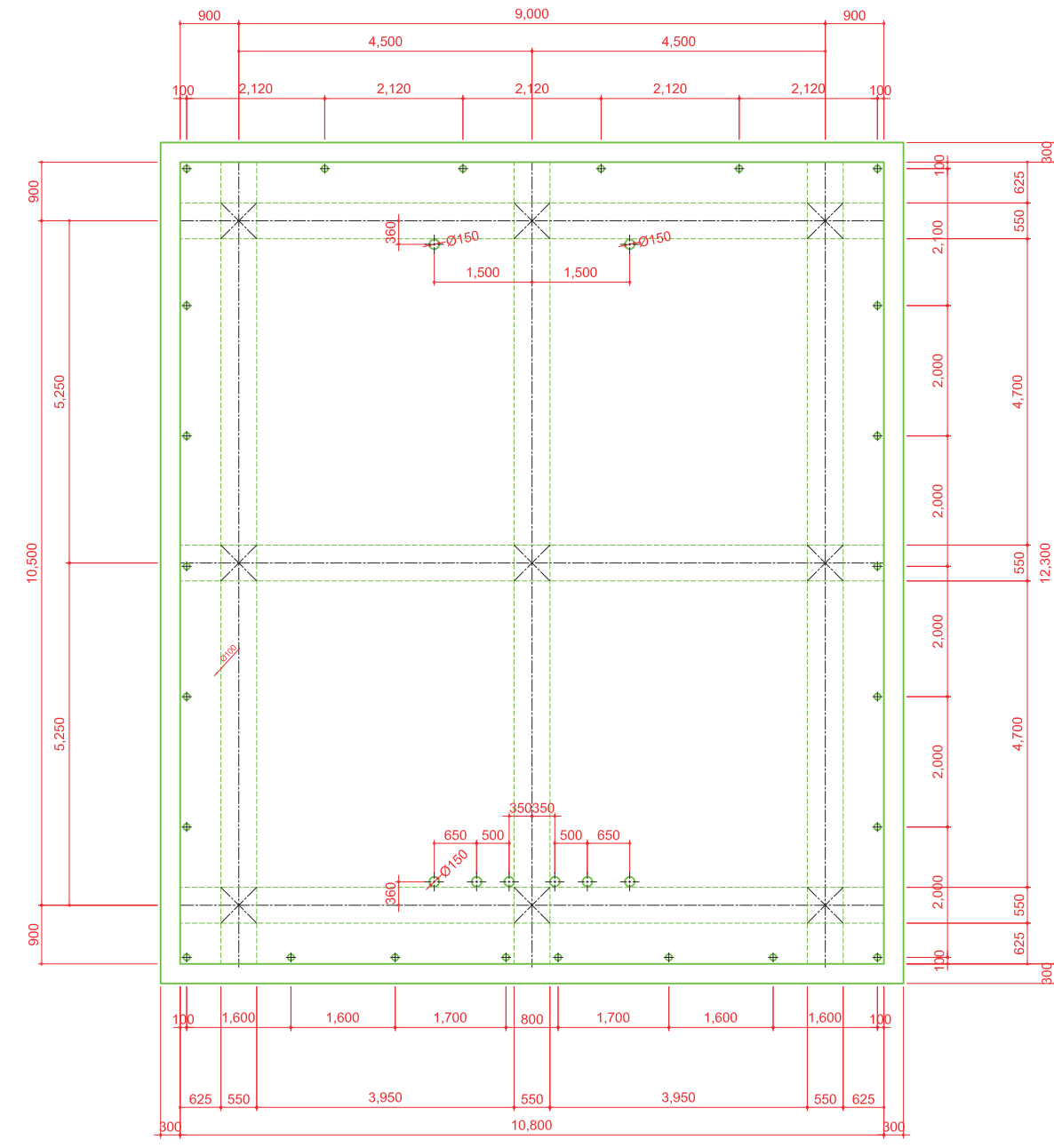


## Reservoir Tank : Elevated Type Kibet (V=194m<sup>3</sup>)

**Plan View**



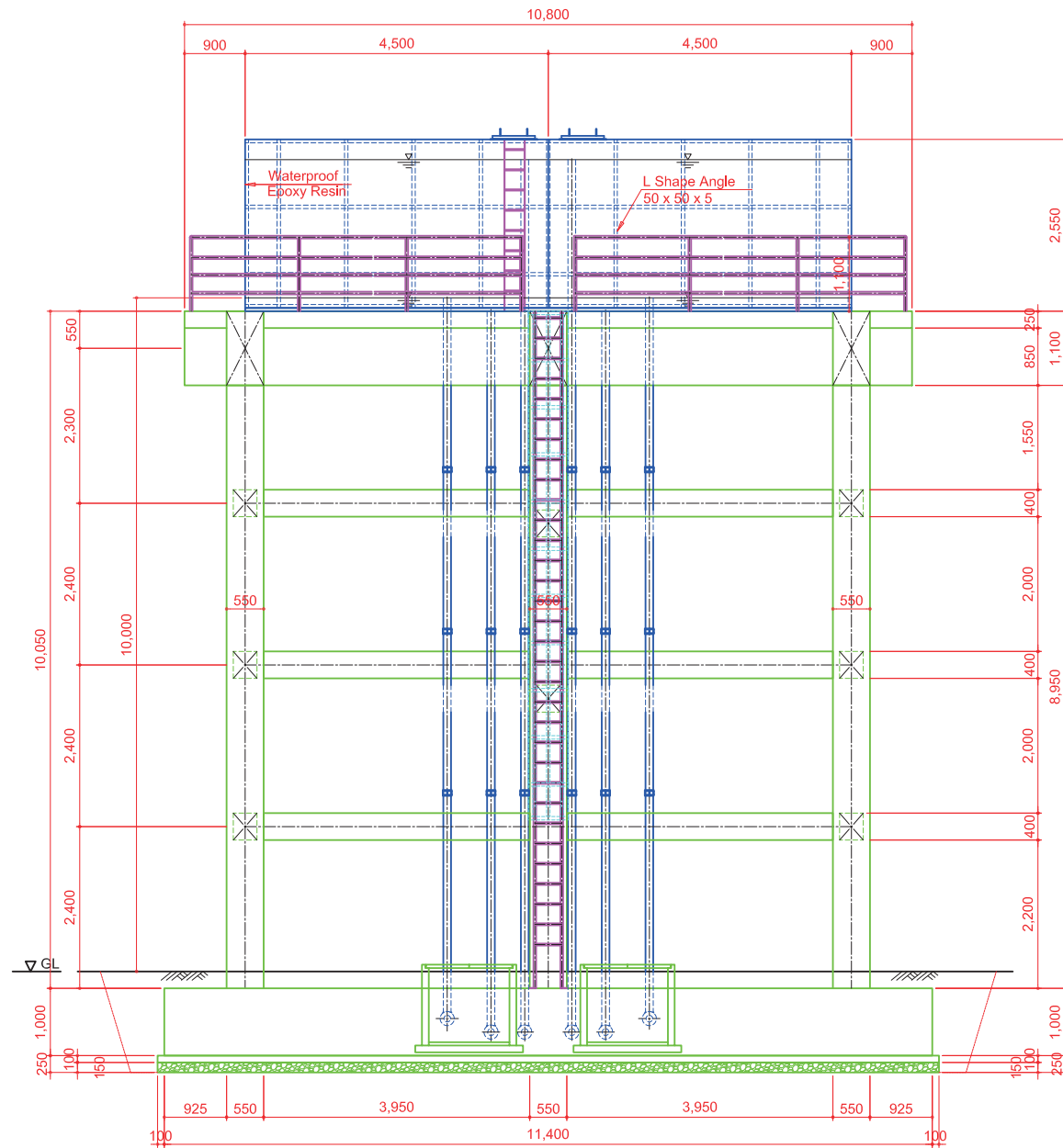
**Plan View (Overhead Structure)**



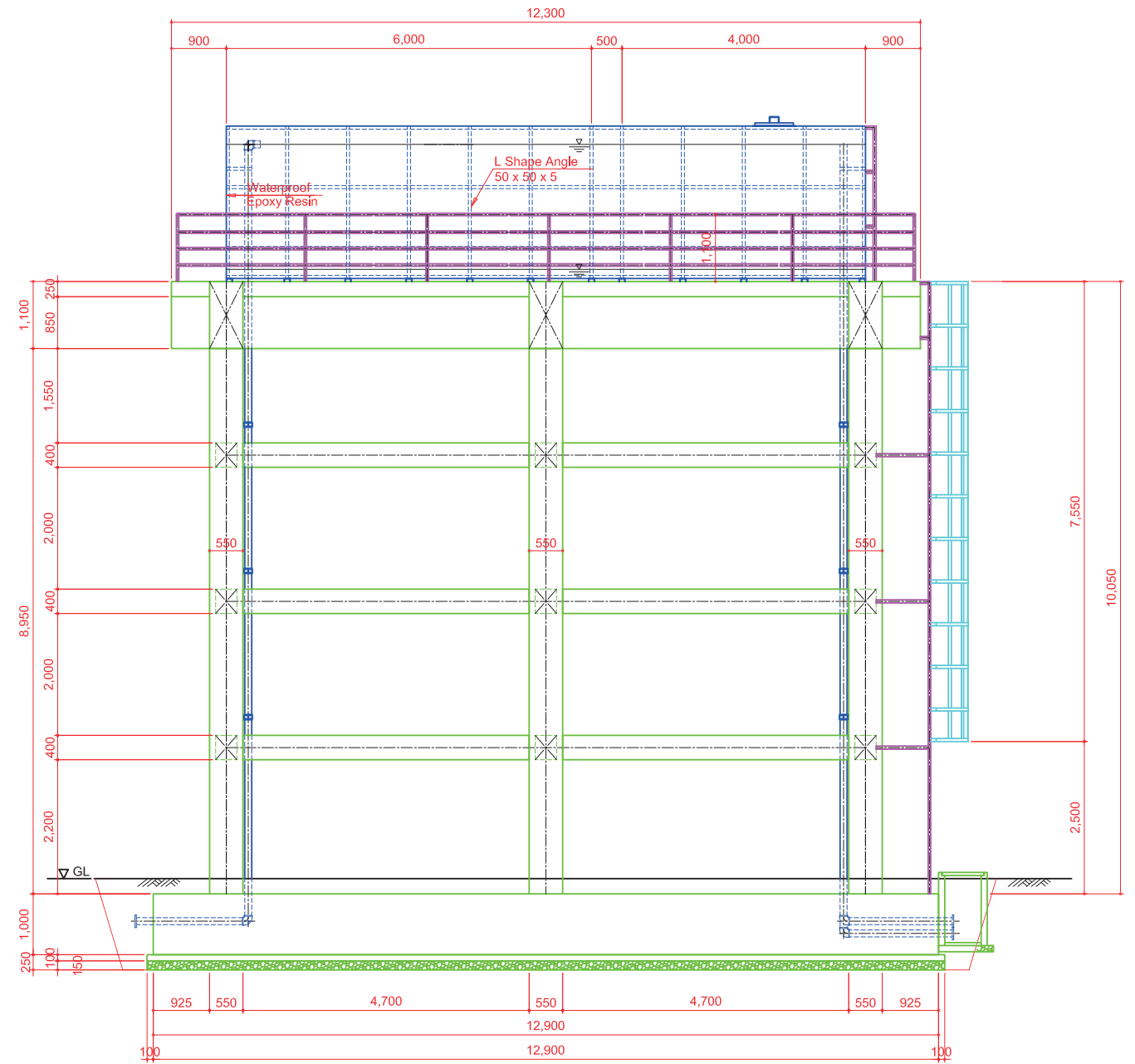
	APPROVED	NOTE	PROJECT NO.	PROJECT NAME	TITLE	DWG NO.
	CHECKED			The Project Water Supply Development to the Small Towns in Rift Valley Basin in Southern Nations Nationalities and People's Regional State	Reservoir Tank: Elevated Type Kibet (194m <sup>3</sup> ) Structural Drawing (2-1)	00
	DRAWN		DATE		SCALE 1:50 — (A1) 1:100 — (A3)	

# Reservoir Tank : Elevated Type Kibet (V=194m<sup>3</sup>)

Front View



Side View

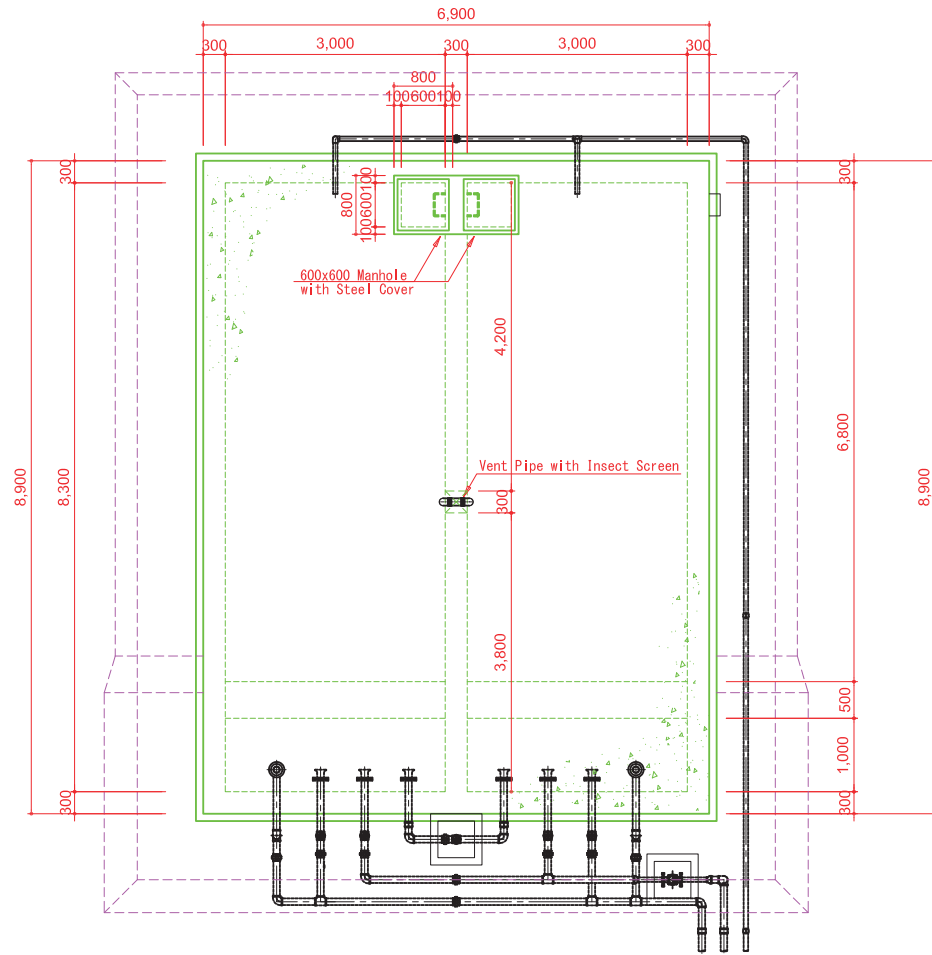


	APPROVED	NOTE	PROJECT NO.	PROJECT NAME	TITLE	DWG NO.
	CHECKED			The Project Water Supply Development to the Small Towns in Rift Valley Basinin Southern Nations Nationalities and People's Regional State	Reservoir Tank: Elevated Type Kibet (194m <sup>3</sup> ) Structural Drawing (2-2)	00
	DRAWN		DATE	SCALE	1:50 — (A1) 1:100 — (A3)	

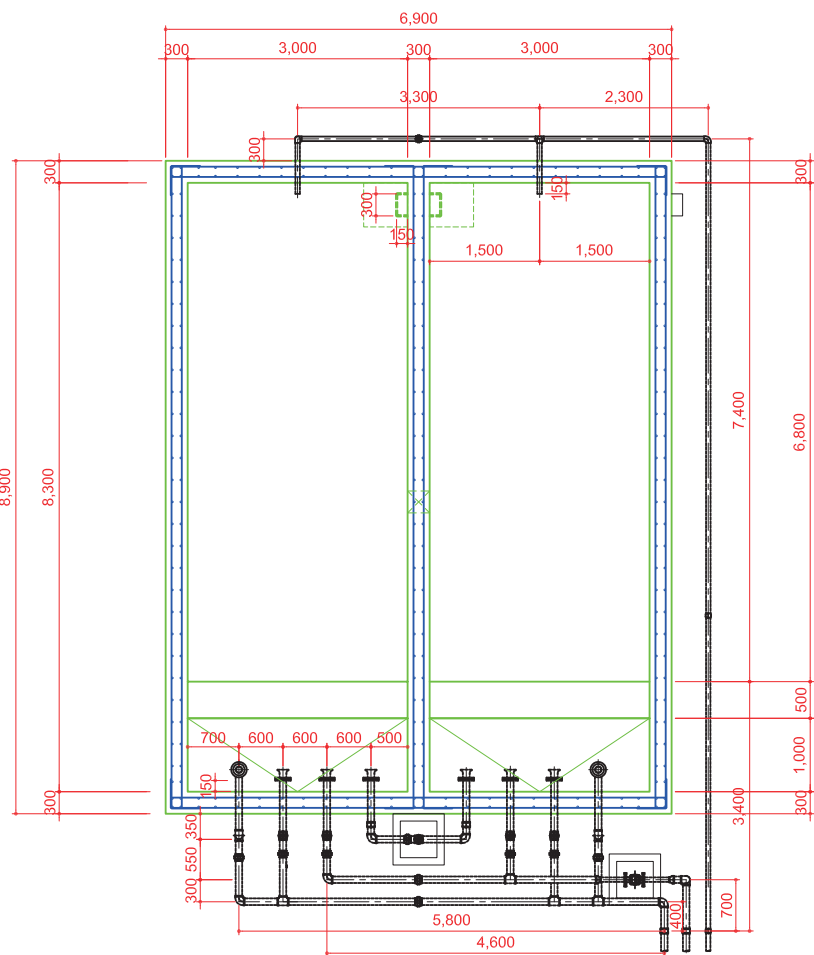


# Reservoir Tank : Reinforced Concrete Type Tebela(V=114.5m3)

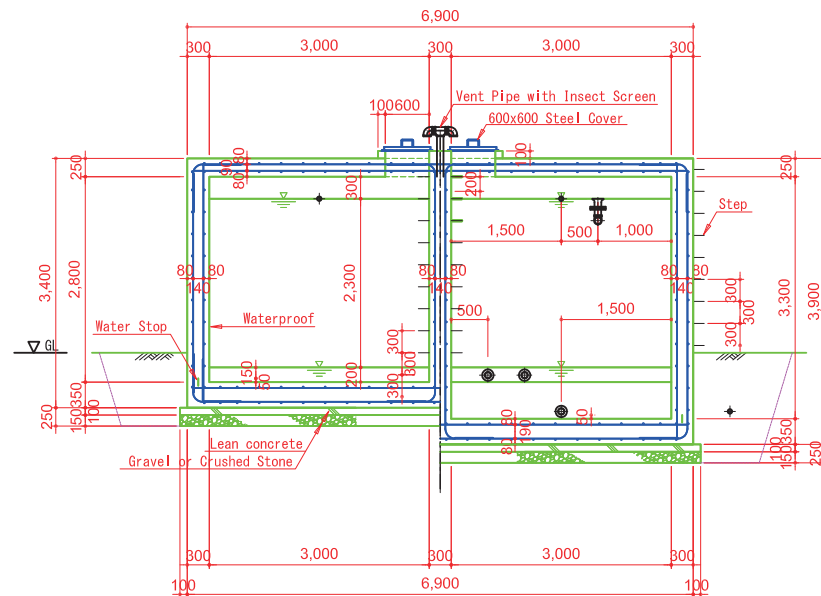
Plan View



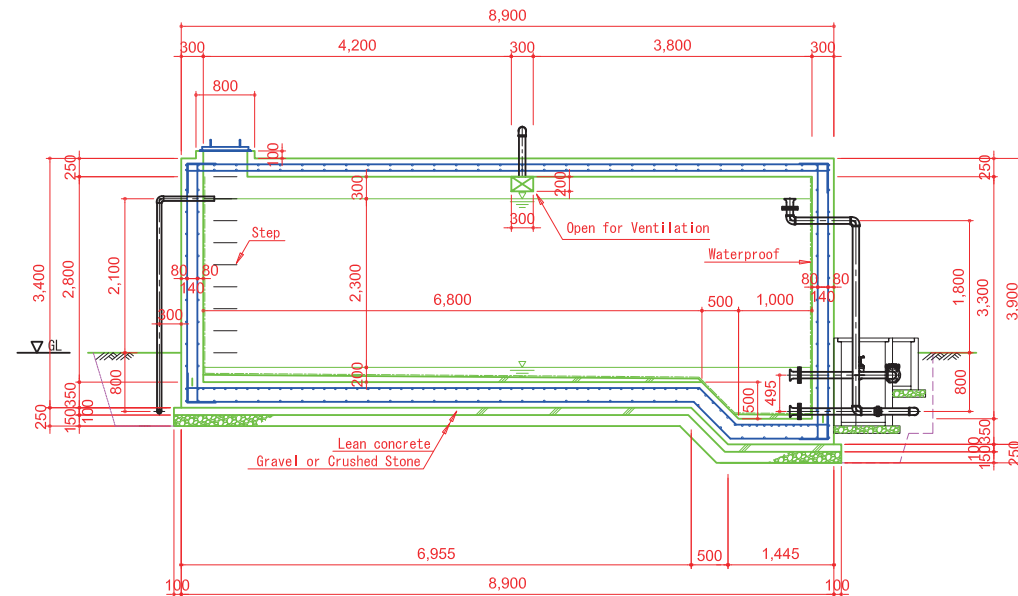
Cutaway View



Cutaway (Front/Rear) View

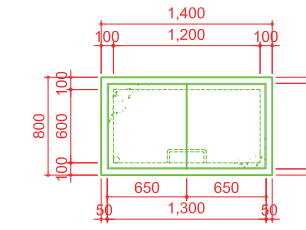


Cutaway (Side) View

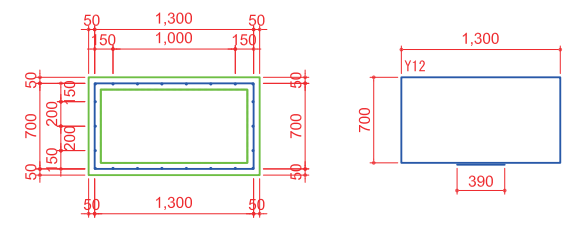


Concrete Box - A type

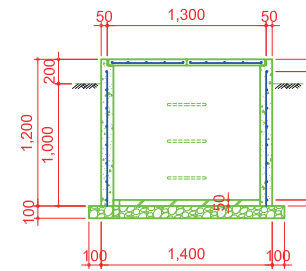
Plan View



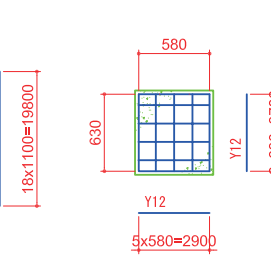
Cutaway View



Front View

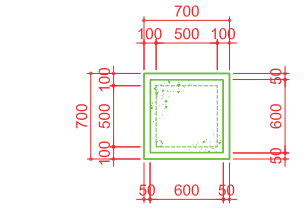


Concrete Cover

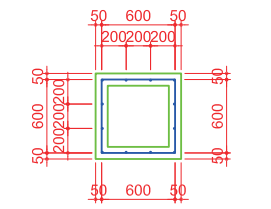


Concrete Box - B type

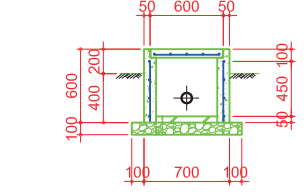
Plan View



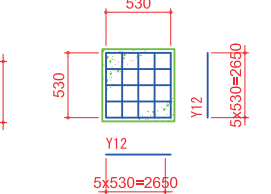
Cutaway View



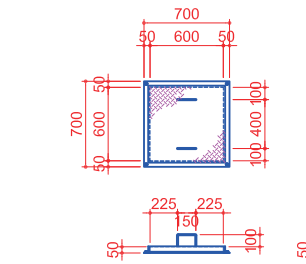
Front View



Concrete Cover



Steel Cover



MATERIAL LIST

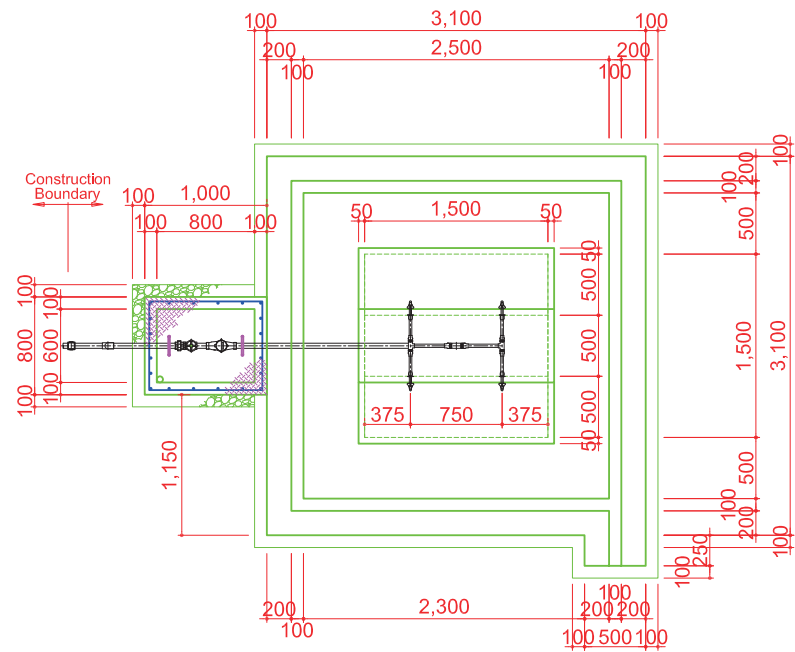
Item	Quantity
Steel Cover 600x600x50 (t=6mm)	2
Structure Steel L-shape 50x50 L=2800mm	2
Handle (steel)	4

Note: Anti-corrosive paint shall be applied for all parts. All parts shall be welded.

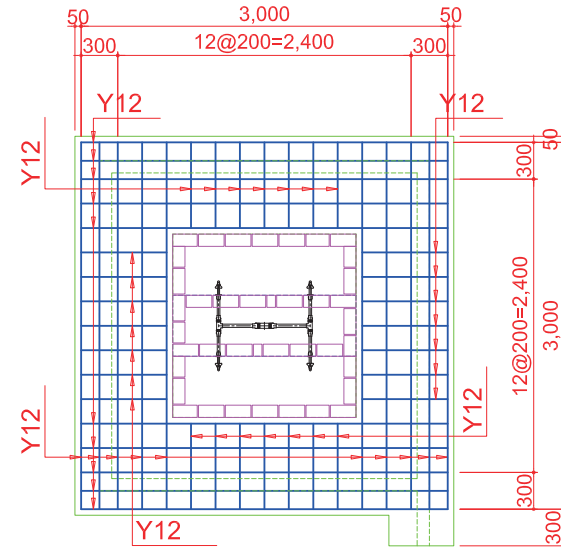
APPROVED	NOTE	PROJECT NO.	PROJECT NAME	TITLE	DWG NO.
CHECKED			The Project Water Supply Development to the Small Towns in Rift Valley Basin in Southern Nations Nationalities and People's Regional State	Reservoir Tank Structural Drawing Tebela (114,5m3)	00
DRAWN		DATE		SCALE 1 : 50 - (A1) 1 : 100 - (A3)	

# Public Taps with Four Faucets

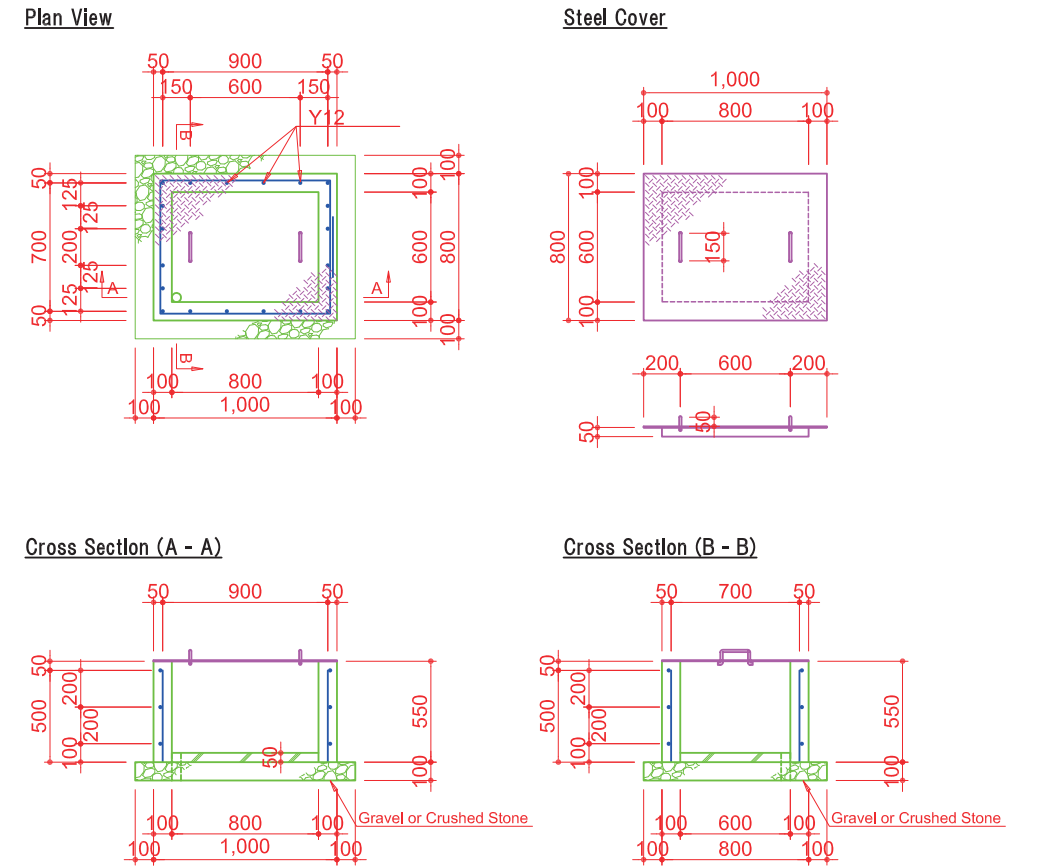
Plan View



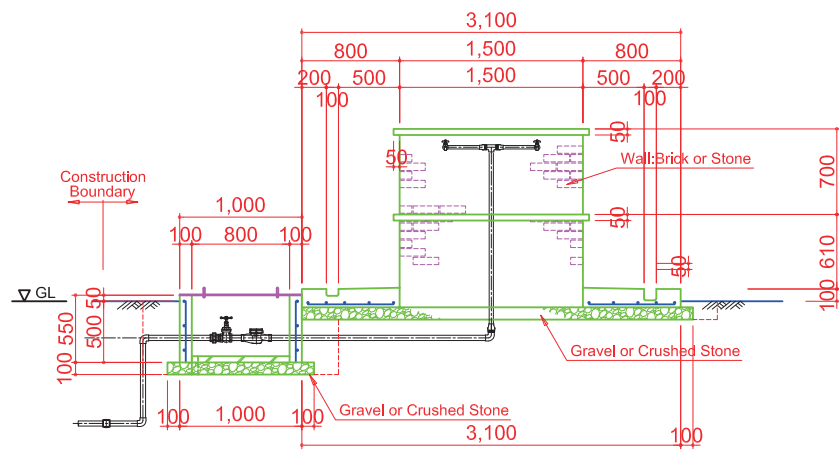
Re-Bar Arrangement Drawing



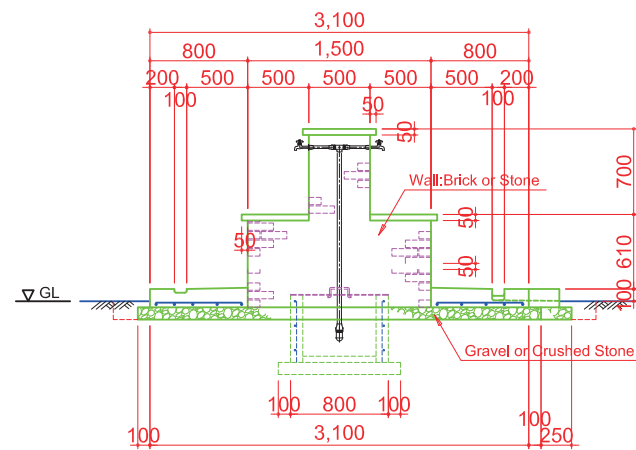
Detail of Meter Box S=1:20



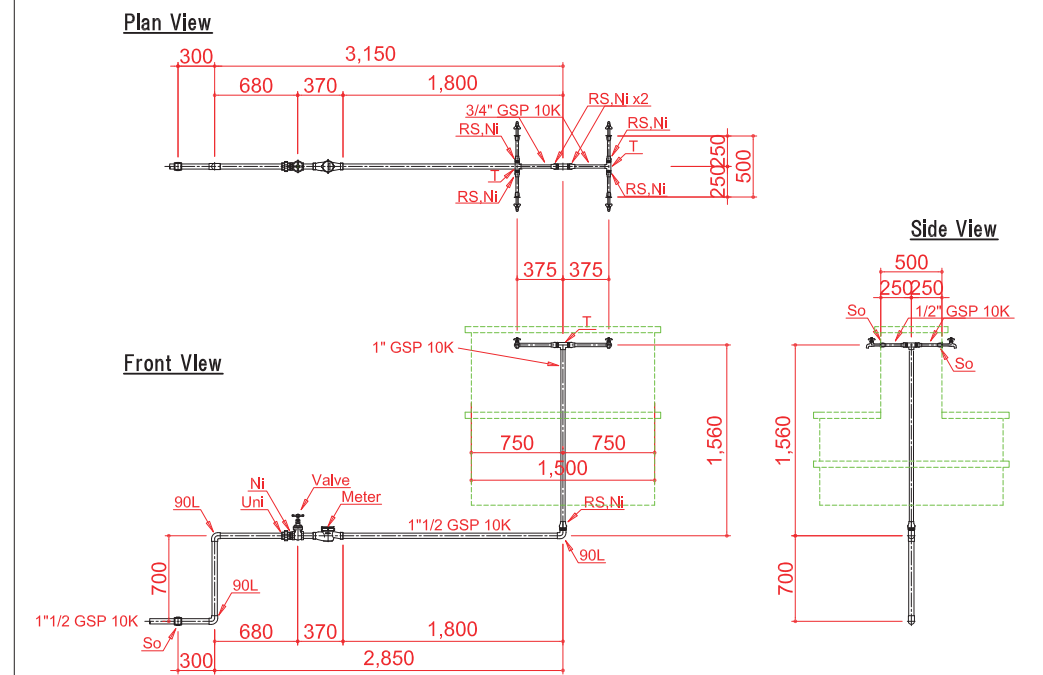
Front View and Section



Side View and Section



Pipe Arrangement Drawing

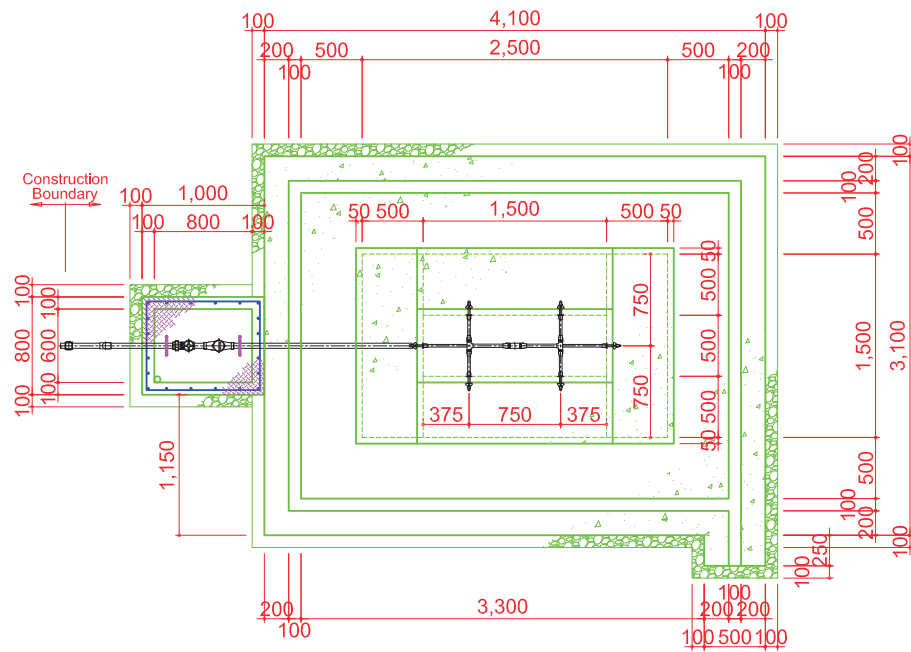


APPROVED		NOTE	PROJECT NO.	PROJECT NAME	TITLE	DWG NO.	
CHECKED					The Project Water Supply Development to the Small Towns in Rift Valley Basin in Southern Nations Nationalities and People's Regional State	Public Faucets with Four Taps	00
DRAWN				DATE		SCALE 1:30 - (A1) 1:60 - (A3)	

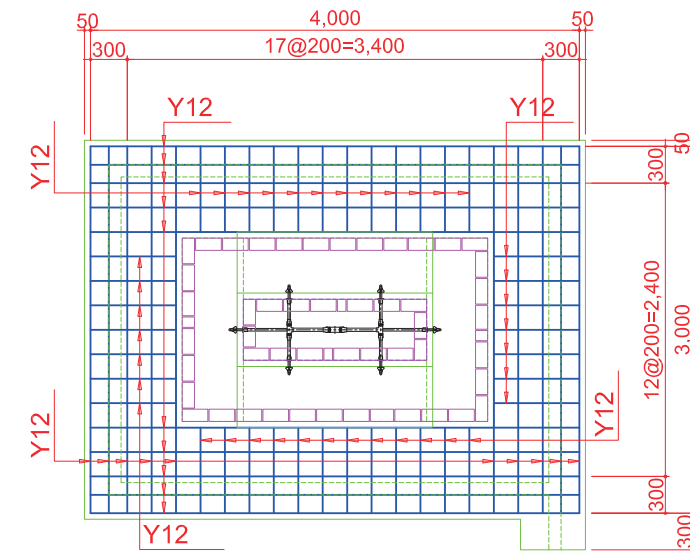


# Public Taps with Six Faucets

Plan View

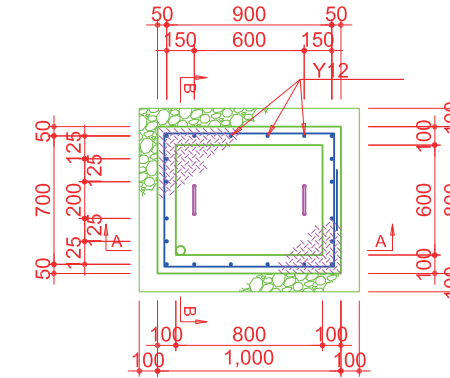


Re-Bar Arrangement Drawing

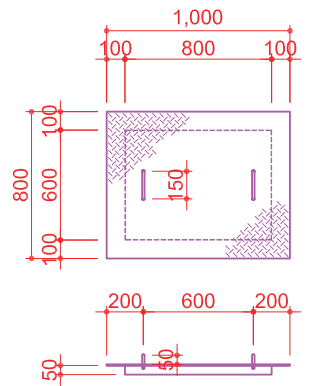


Detail of Meter Box S=1:20

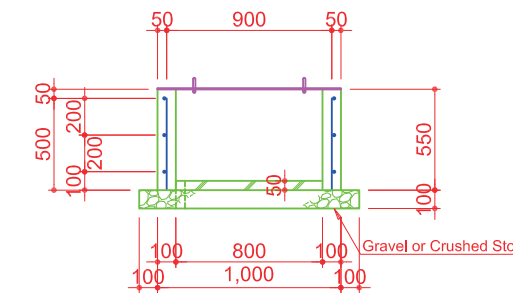
Plan View



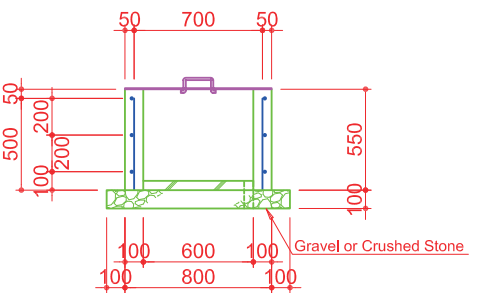
Steel Cover



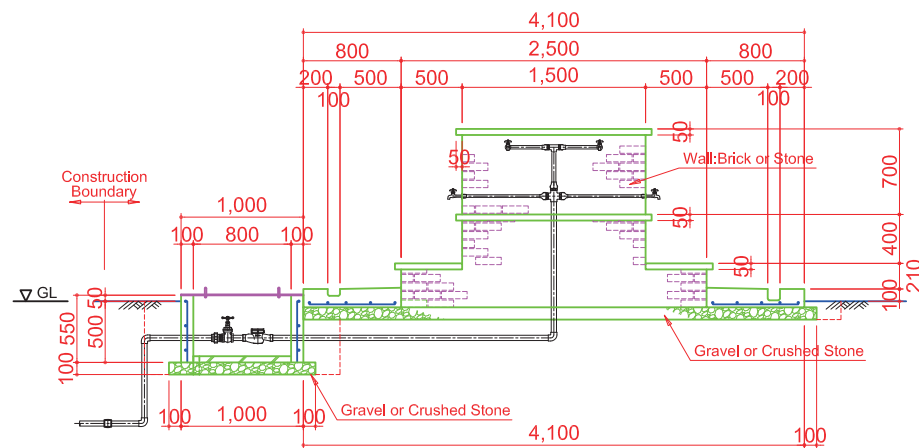
Cross Section (A - A)



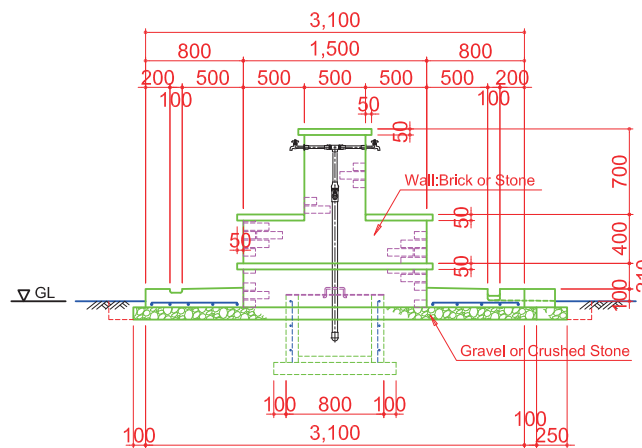
Cross Section (B - B)



Front View and Section

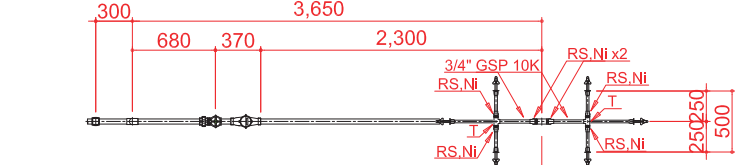


Side View and Section

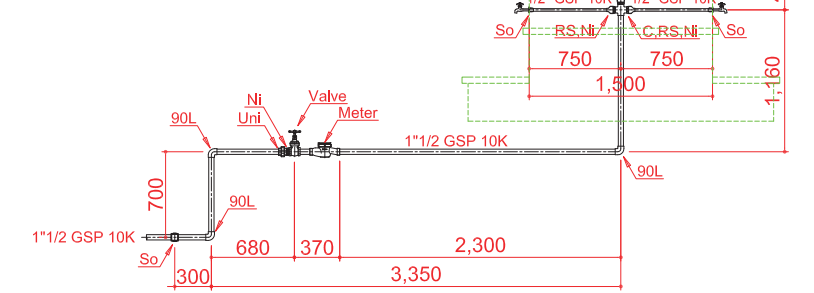


Pipe Arrangement Drawing

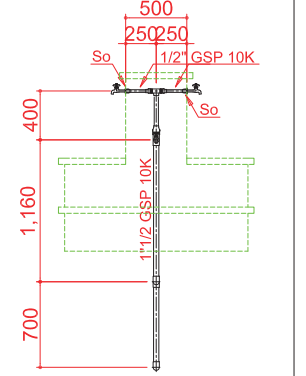
Plan View



Front View



Side View



APPROVED	NOTE
CHECKED	
DRAWN	

PROJECT NO.	PROJECT NAME
DATE	

PROJECT NAME	TITLE
The Project Water Supply Development to the Small Towns in Rift Valley Basin in Southern Nations Nationalities and People's Regional State	
SCALE	1:30 - (A1)
	1:60 - (A3)

TITLE	Public Faucets with Six Taps
DWG NO.	
	00