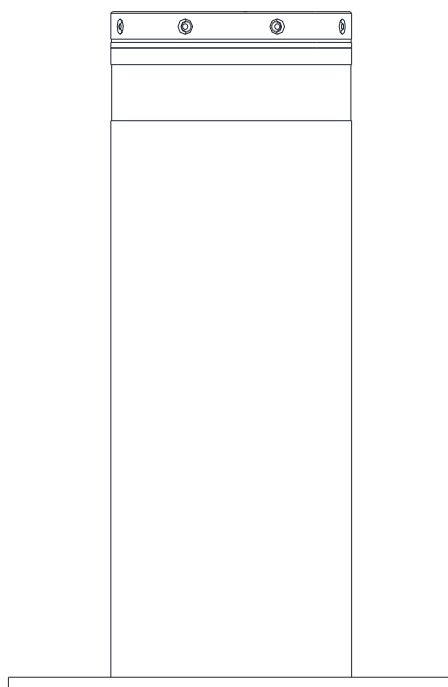


36V DC Brushless Bollard



Installer and User's Manual

Please read carefully before installing and using





Bollard is not for Pedestrians

Automatic gate openers are designed for vehicular traffic. They are powerful and can cause serious bodily injury or death. Accordingly, direct all pedestrian traffic to a separate walk-through gate.

1. Before starting installation and operation or maintenance, cut off power supply.
2. The product must be earthed, And an earth leakage breaker is necessary on the power supply.
3. Do not change the original inside wiring.
4. If power failure pls switch off the power supply first, then operate the bollard by manual handle.
5. Keep the automatic control out of the reach of children. The control system must be installed at a minimum height of 1.5m from the ground surface
6. Operate only where you can see the bollard clearly
7. When the bollard is being operated, any people or matter access is absolutely forbidden.
8. Do not permit children to play on or around the bollard.
9. Any unsafe operation and not mentioned operation is absolutely forbidden.
10. Please keep this manual for maintain reference.

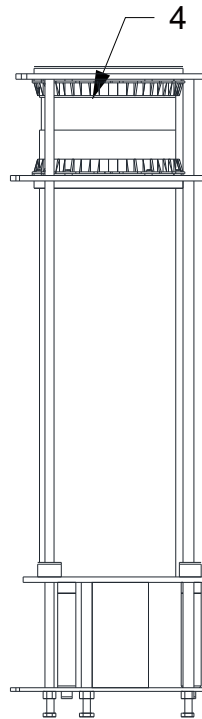
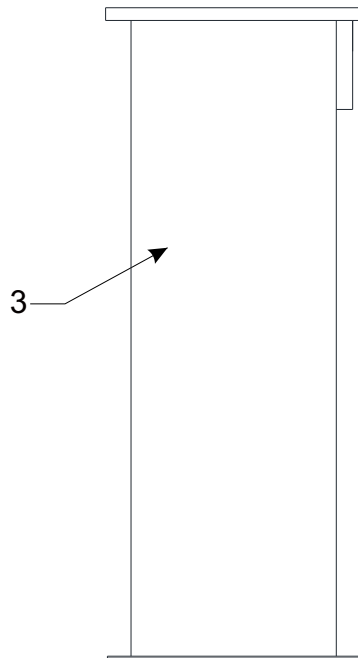
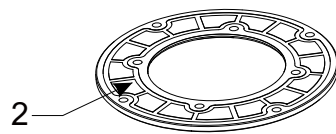


Bollard is not for Pedestrians!

Auto-bollards are designed for vehicular traffic. They are powerful accordingly, direct all pedestrian traffic to a separate walk-through gate.

1. Structure

1 → 

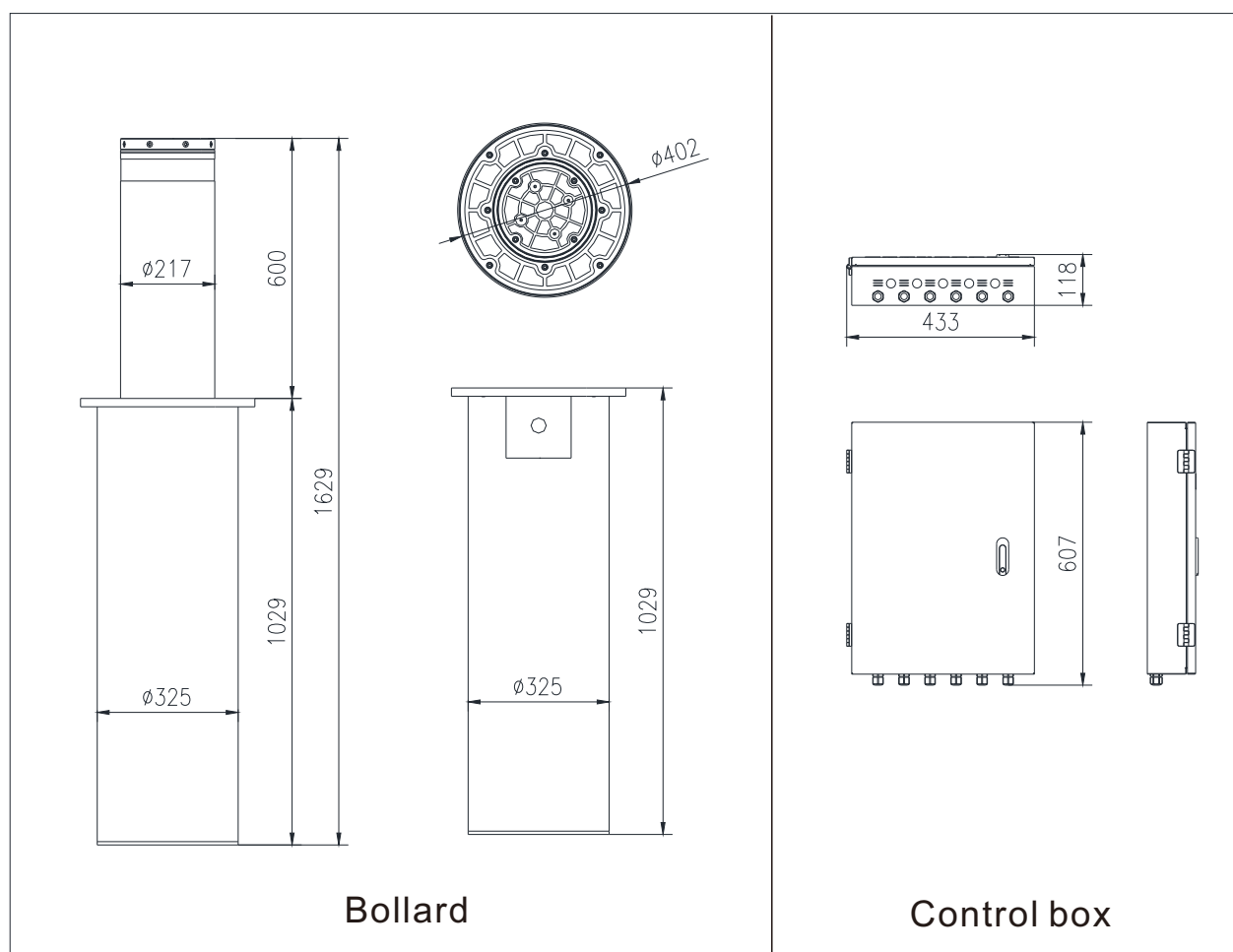


- ① Screw
- ② Plate of foundation case
- ③ Foundation case
- ④ Bollard mechanism

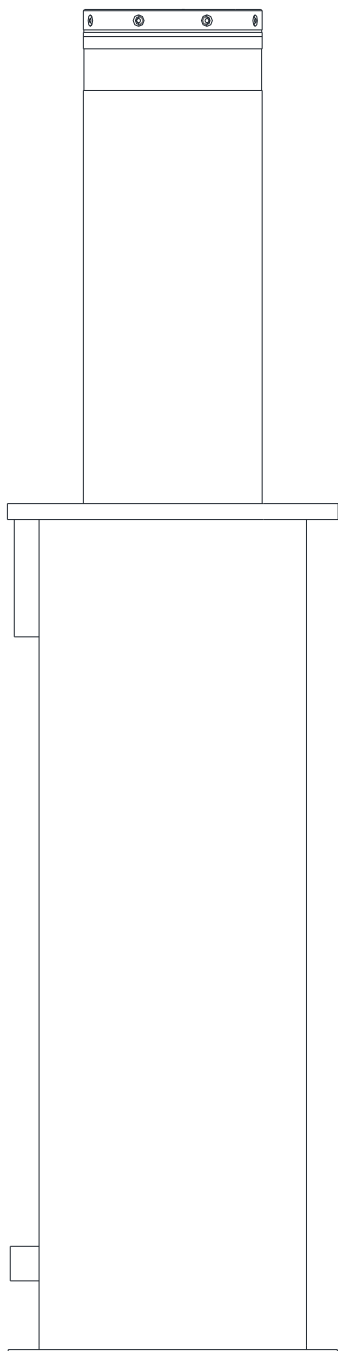
2. Technical data

Motor voltage	DC36V
Drive	Electric motor
Input power	350W
Warning device	LED light + reflective tape
Up/down time	6S
Lift height	600mm
Control function	Control unit
Working environment	-30° ~55°

3. Measure(unit: mm)



4. Packing list -



bollard **1** pcs



lifting eye bolt **2**pcs



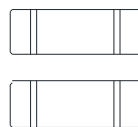
Hexagonal screw(backup) 4pcs



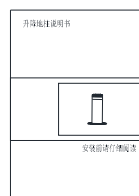
Hexagon wrench **1**pcs



Release handle 1pcs

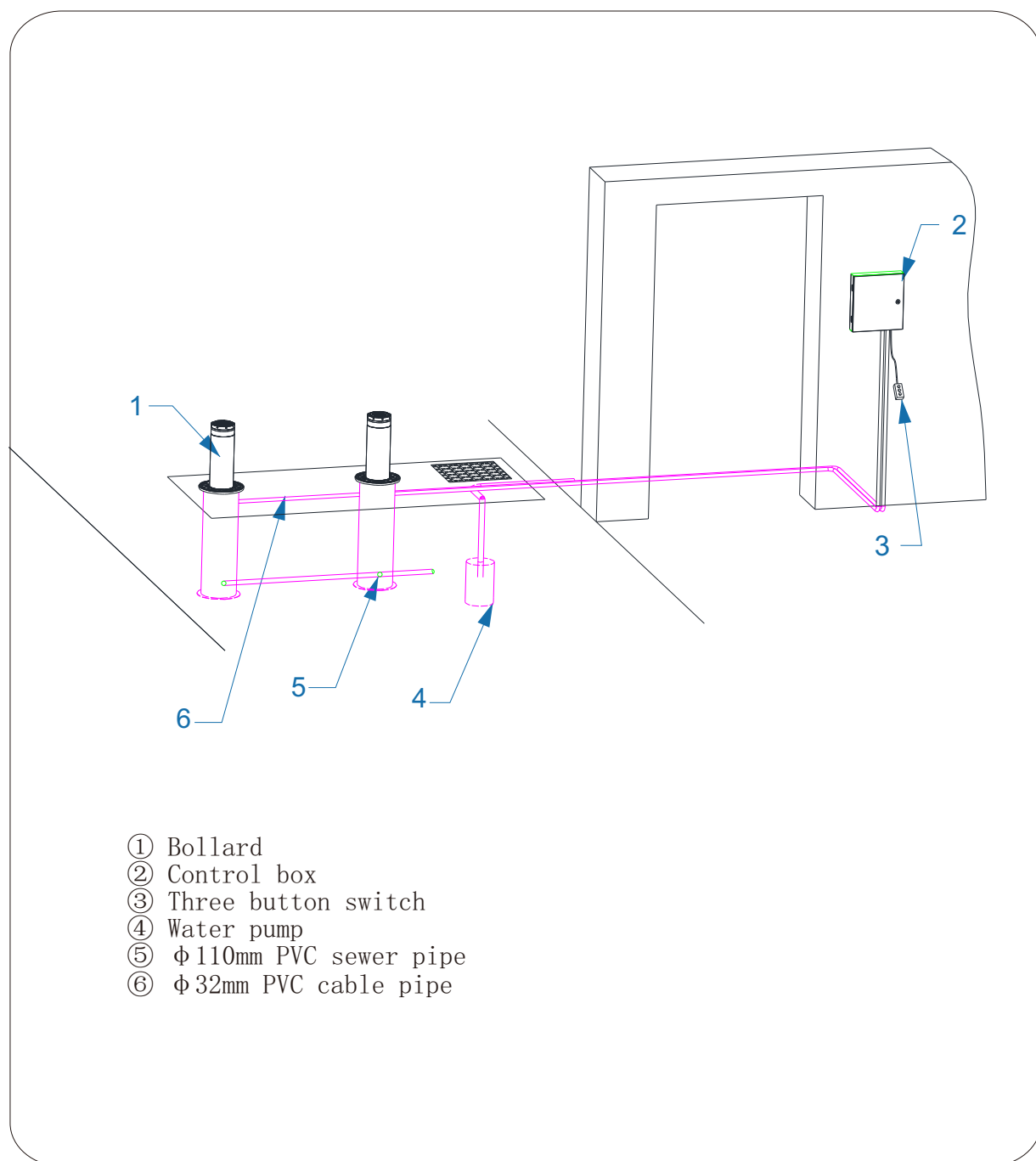


Waterproof connector **2**pcs



Manual 1pcs

5. Installation layout

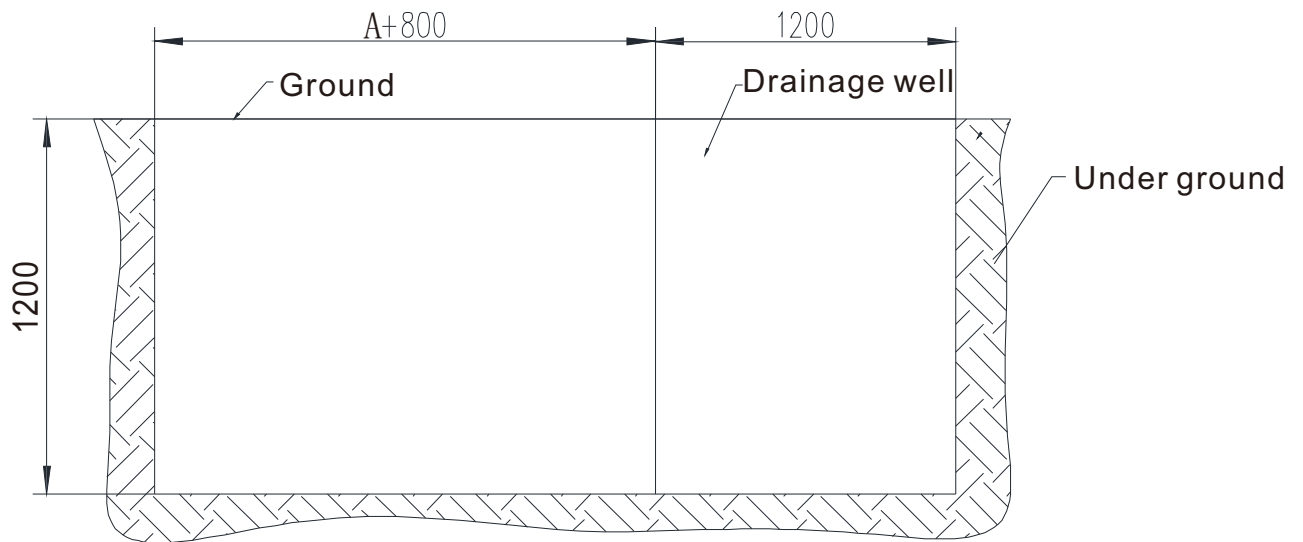


6. Installation

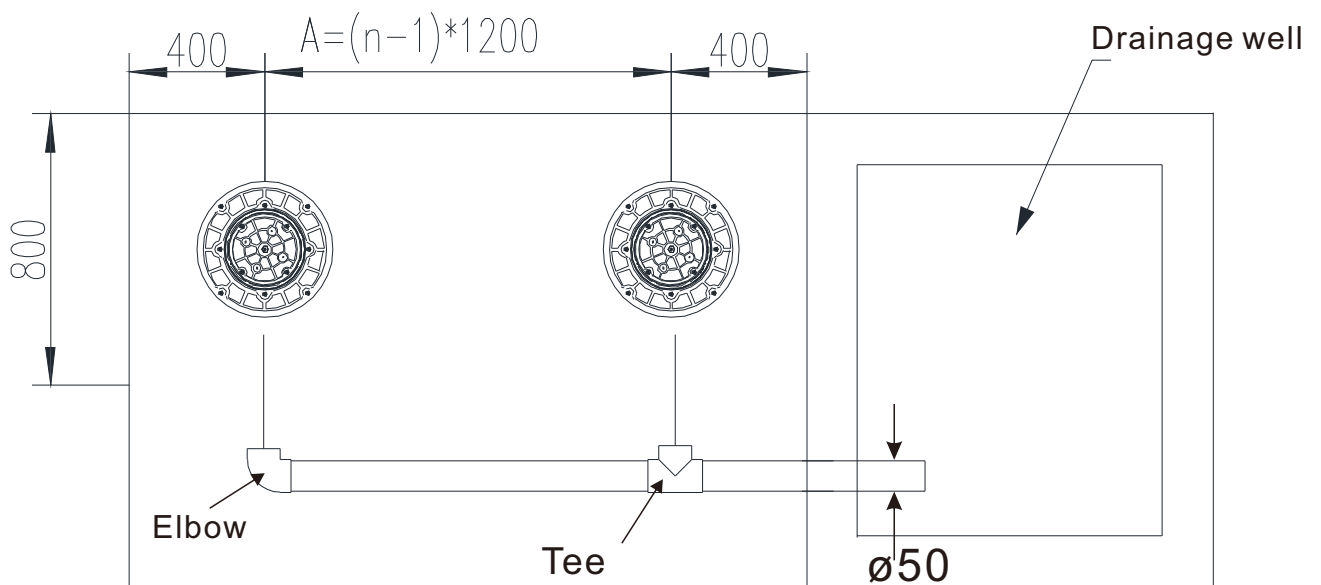
6.1. Dig the foundation as following picture.

n =number of bollard

A =space between each bollard center

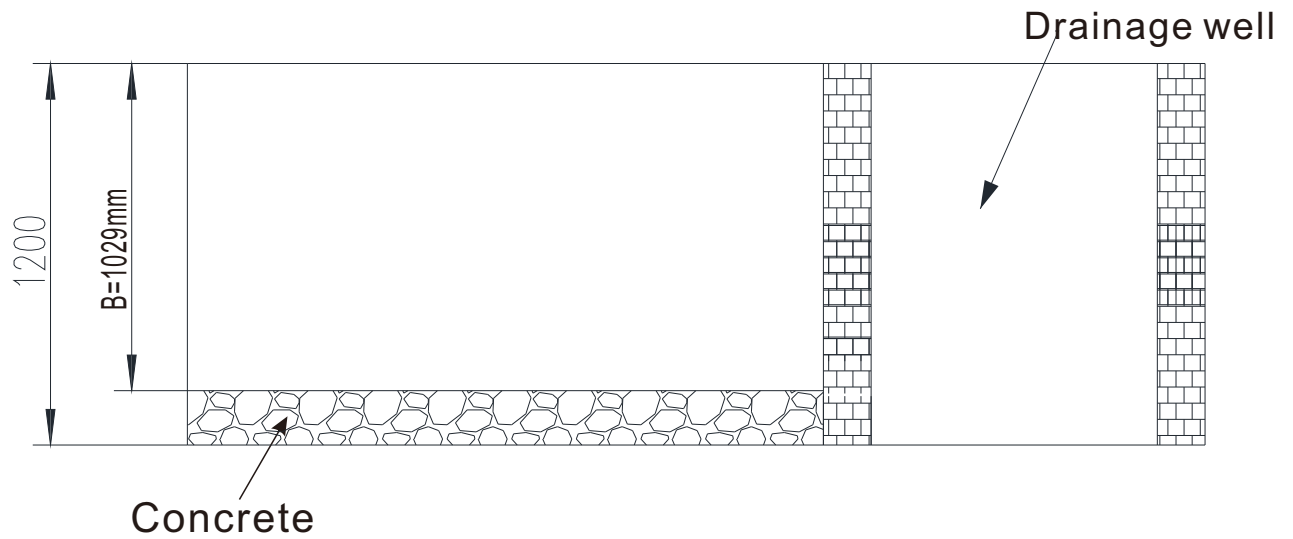


6.2. Assemble sewer pipe: $\varnothing 50\text{mm}$ (PVC), aerial view as below:

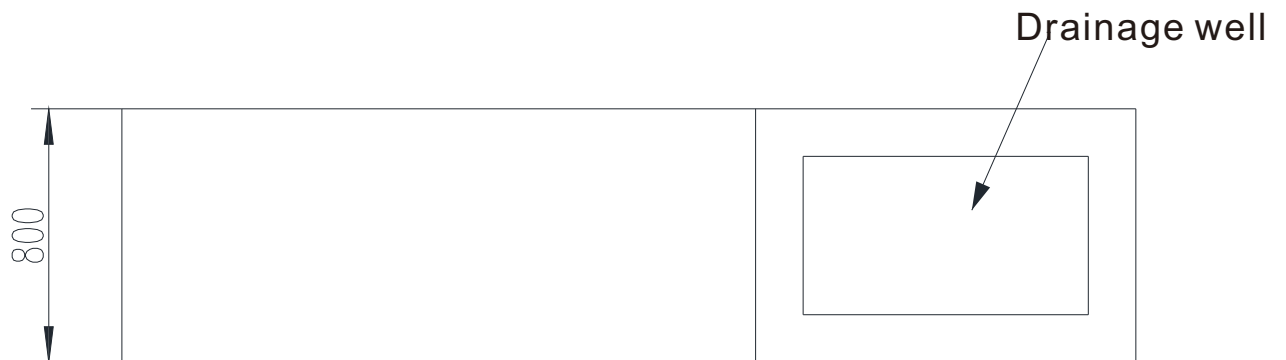


6.3. Install PVC sewer pipe

Fill with sand and concrete, make sure the B=1029mm

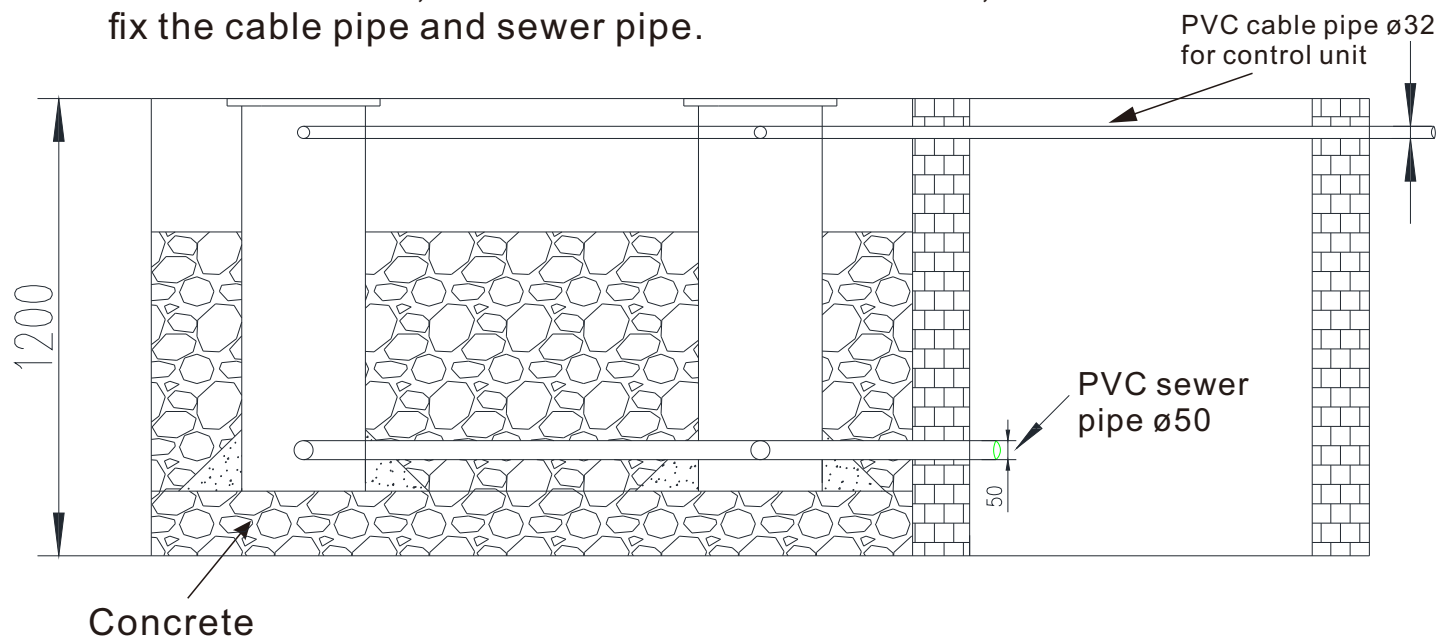


Aerial View

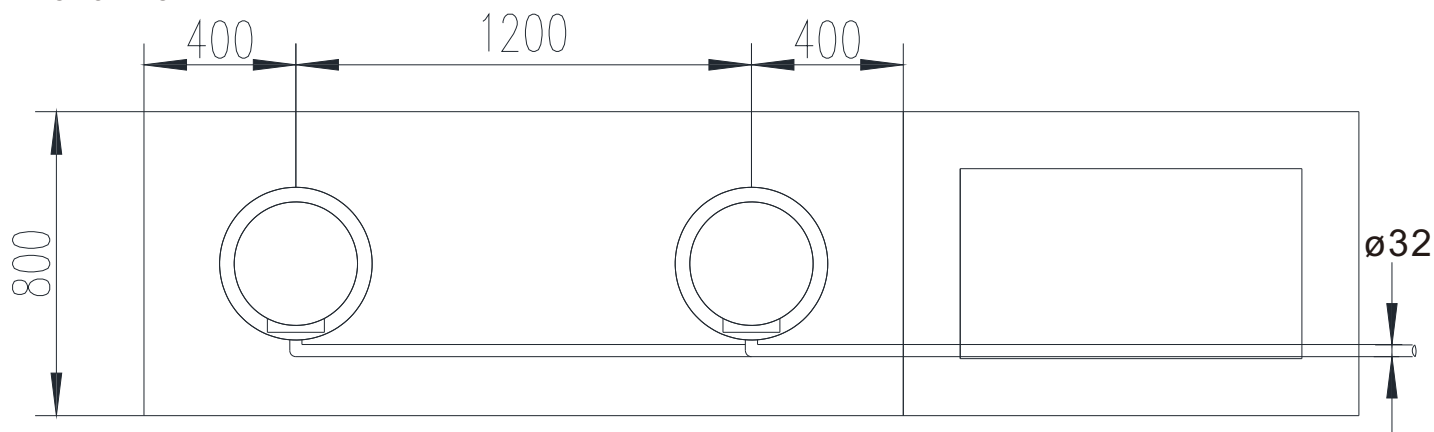


6.4. Install foundation case.

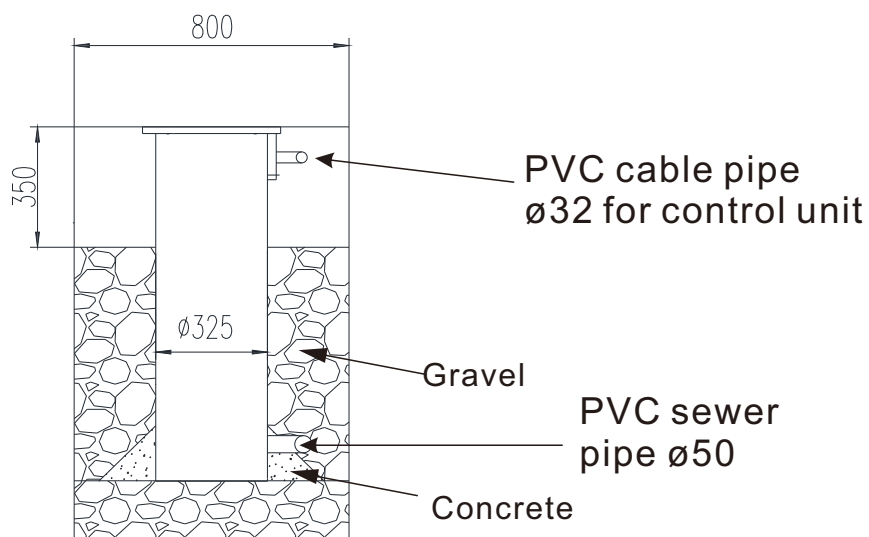
Fill with concrete, all bollards must be in one line,
fix the cable pipe and sewer pipe.



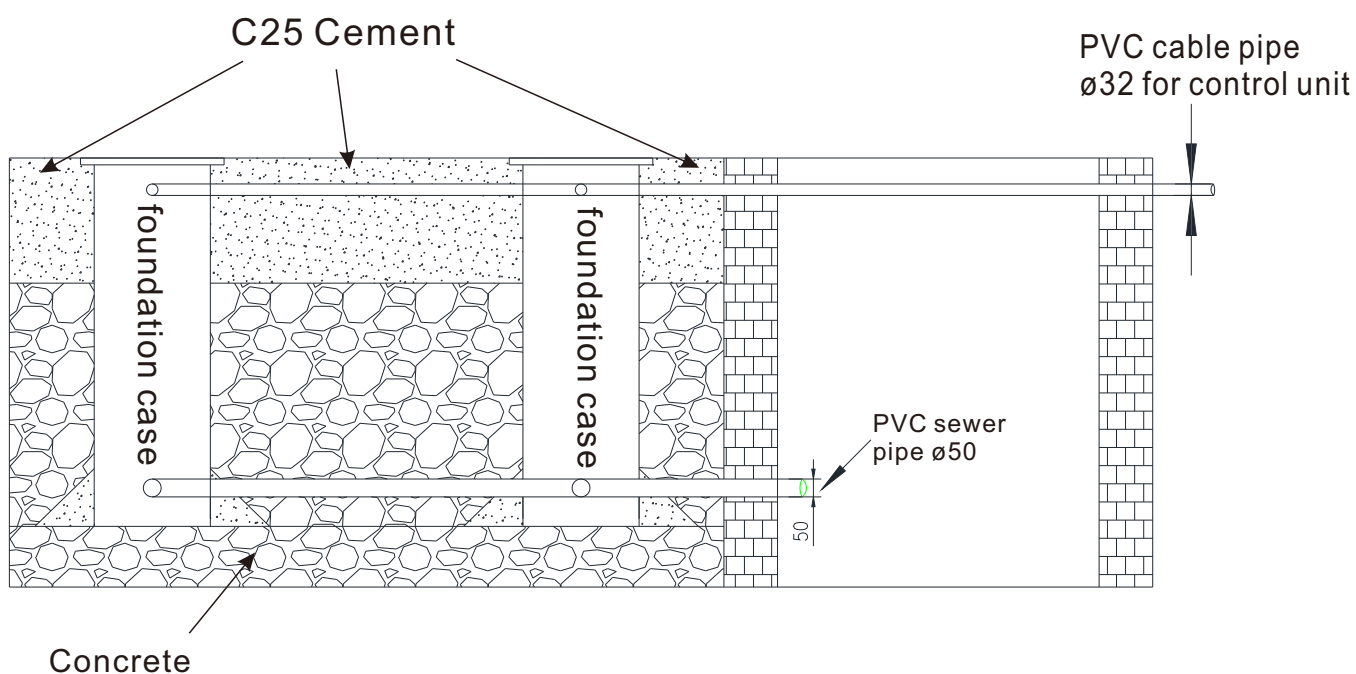
Aerial view:



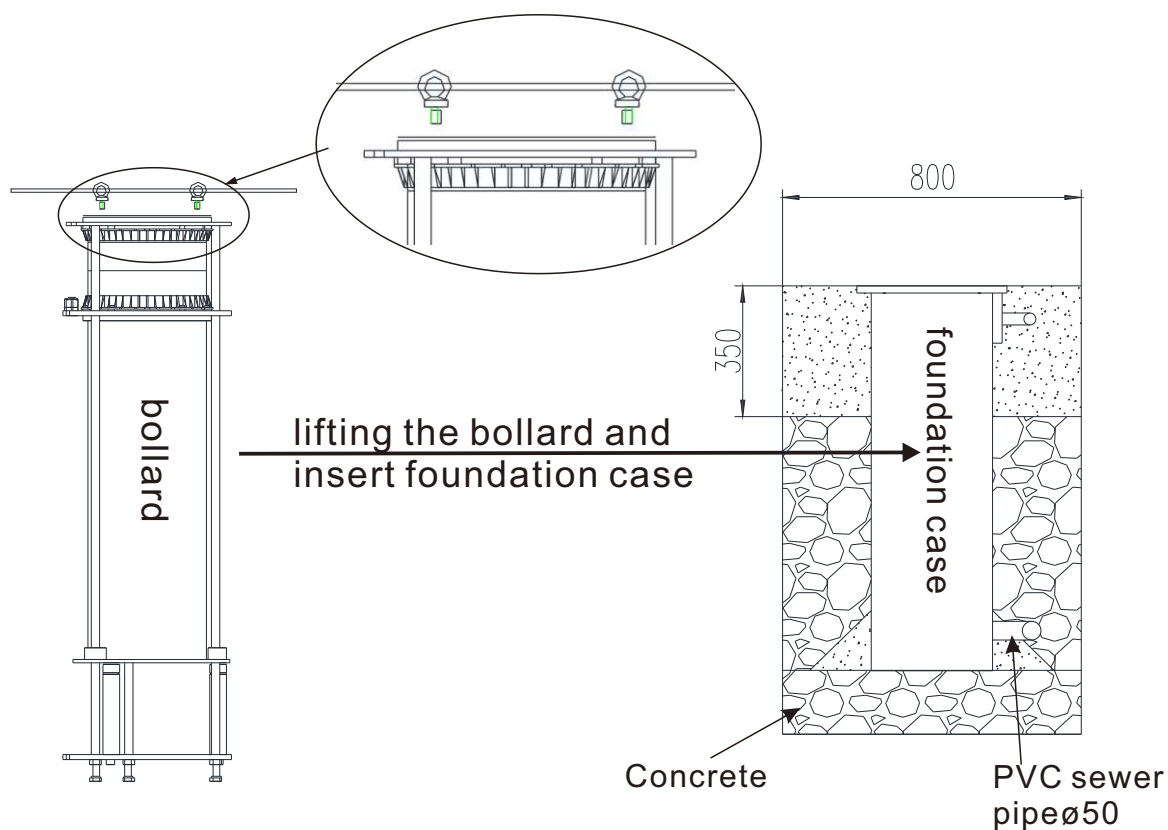
Lateral view:

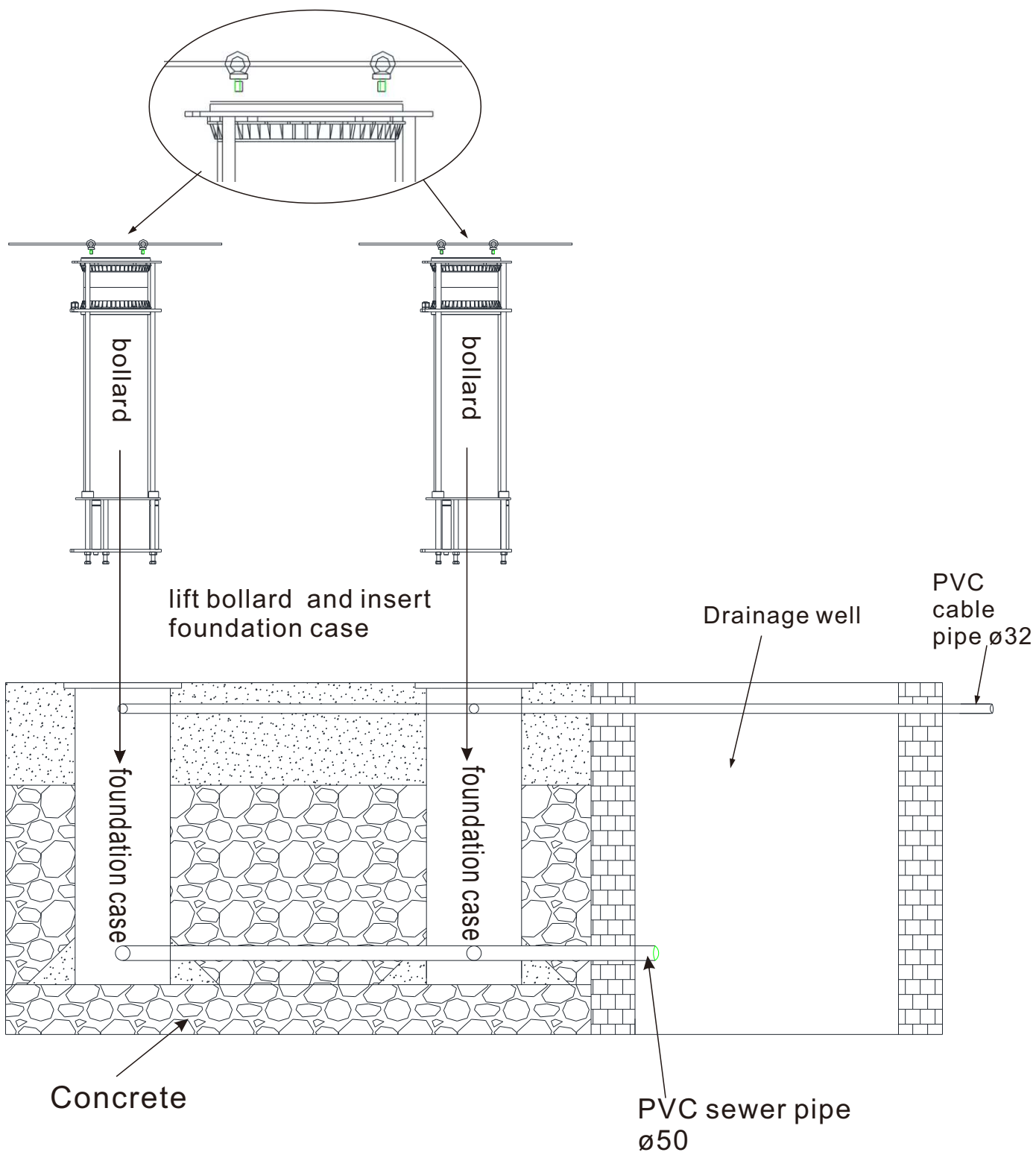


6.5. Fill concrete with No.C25 cement, attention: take care of the cable pipe, don't make the cable pipe bent or broken.

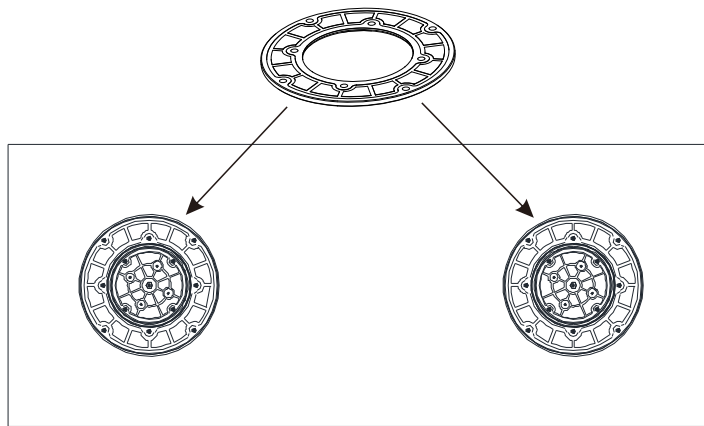


6.6. Lifting the bollard(M8 lifting eye bolts 2pcs)





6.7. Connect the cable through the $\varnothing 32\text{mm}$ PVC cable pipe, then fix the cove of foundation(8-M8).



6.8. Fix the control unit, connect wires refer to drawing, refer to Page11.

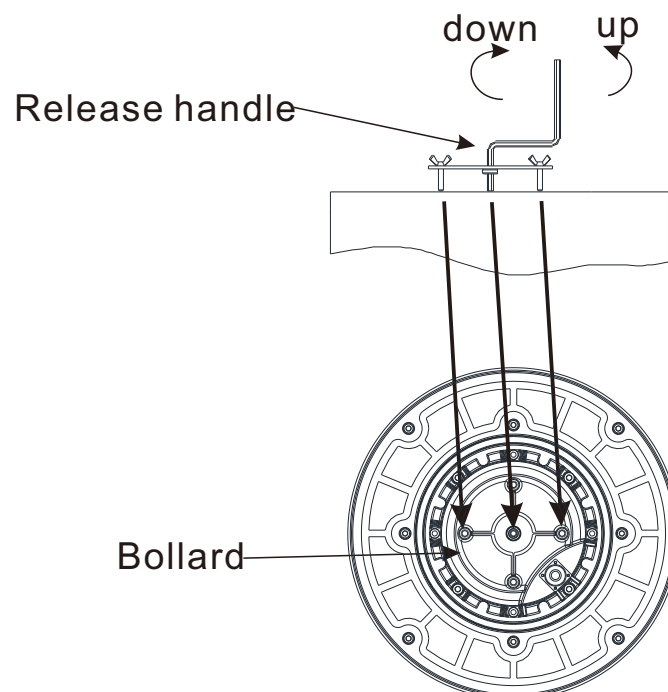
7. Release

In case of power failure, the bollard can be up and down manually by release handle.

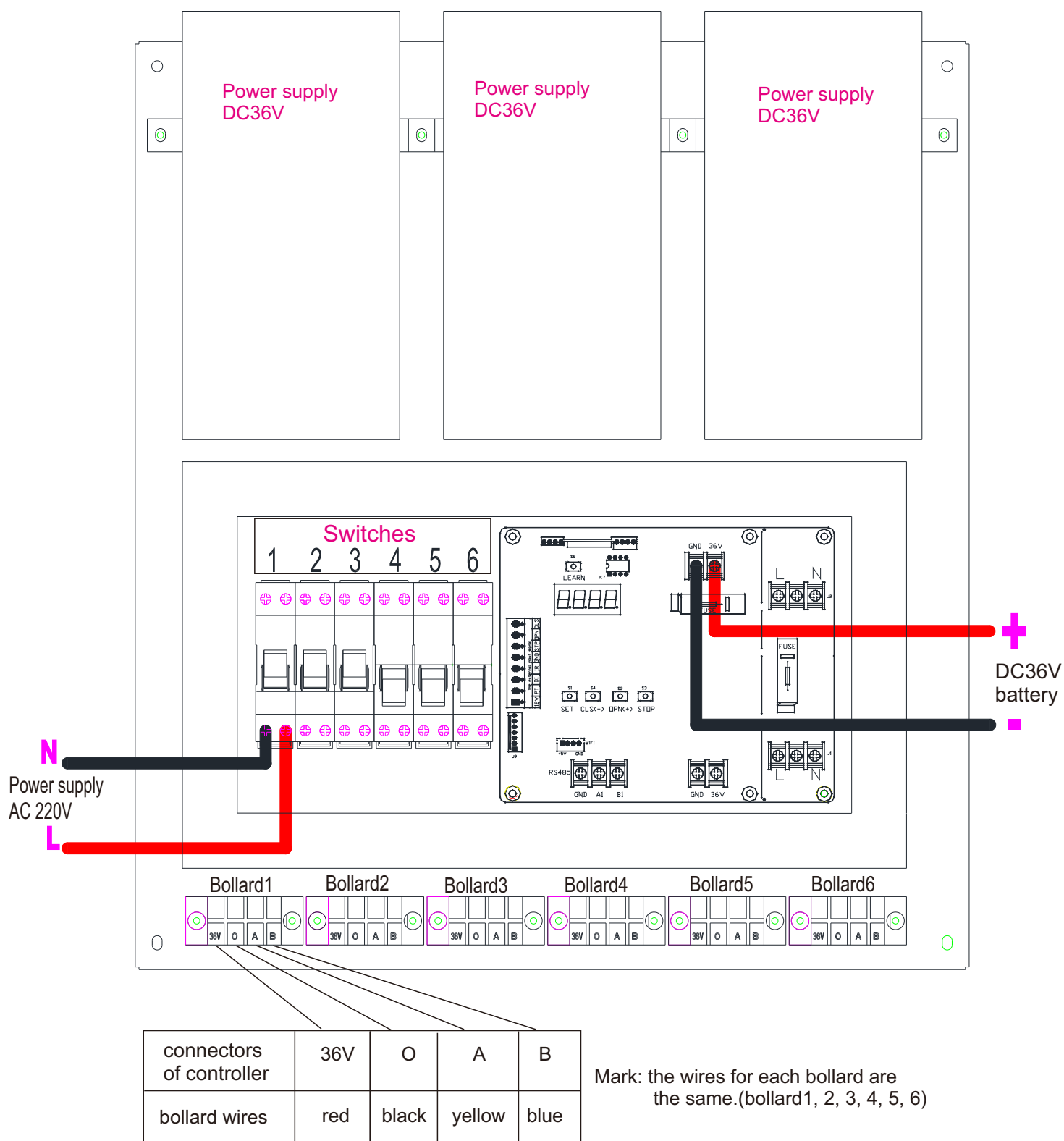
Attention: Must cut off the power!

Step:

1. Power off
2. Fix the release handle by 2 screws as picture, rotate the handle, clockwise=down, anticlockwise=up



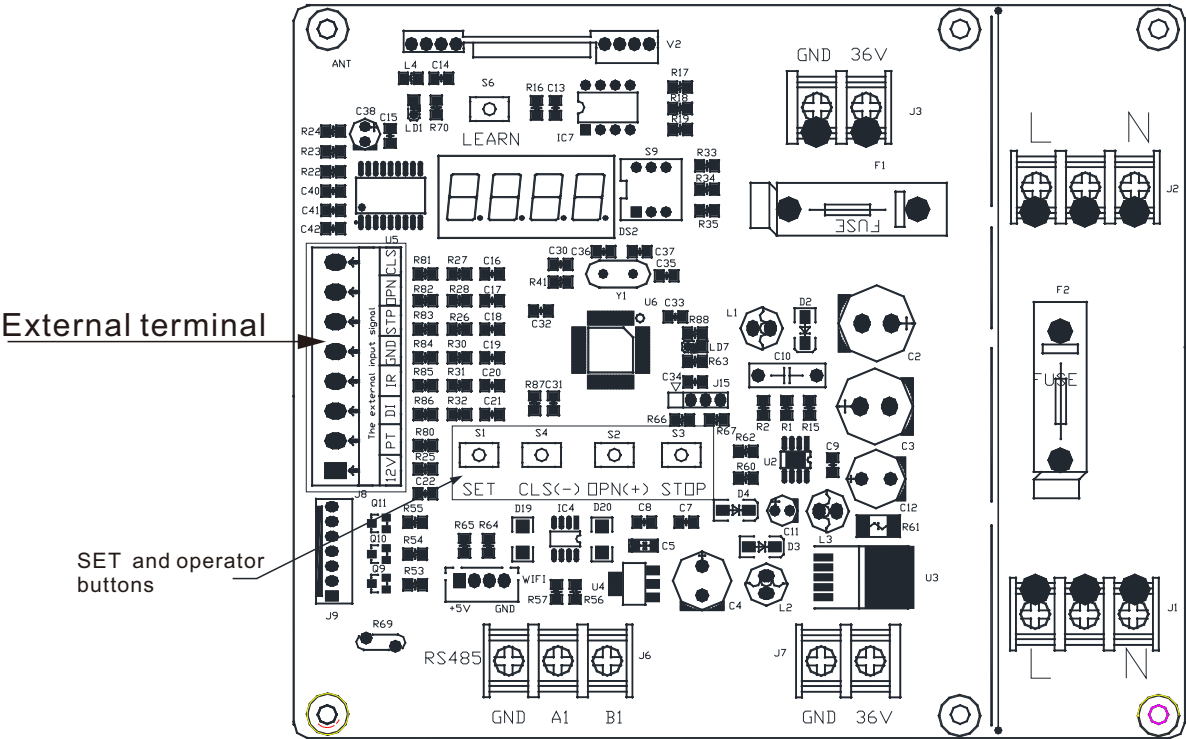
8. Wire connection



Attention: when power on, switches No.1 + No.2+No. 3 are on, switches No4, +No.5+No.6 are off.

9. Parameter setting

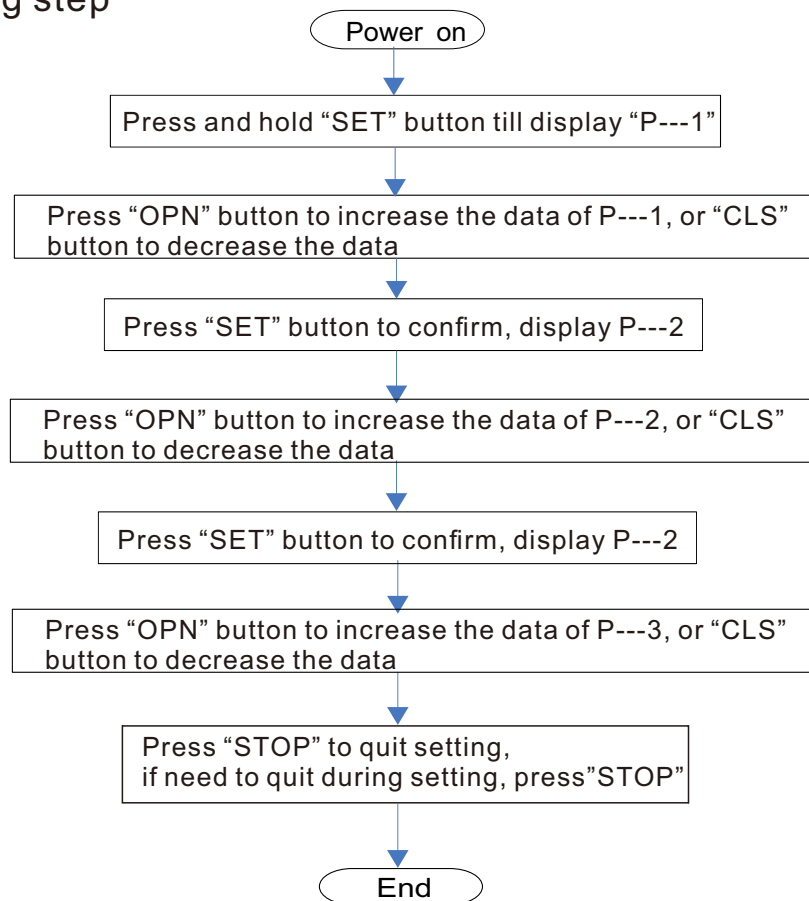
9.1. General diagram



9.2. Factory setting

	P1	P2	P3
factory setting	4	2	55
	5	2	55

9.1. Setting step



10. Back up battery function

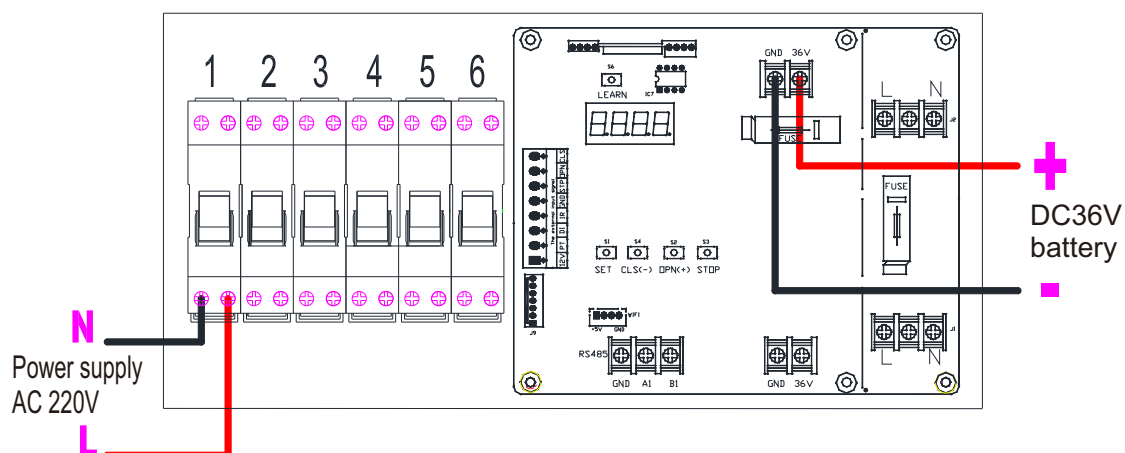
Backup battery(Optional, for temporary using when power failure)

Attention: the switches 1, 2, 3 must be off, then connect battery, each time can operate one switch only.

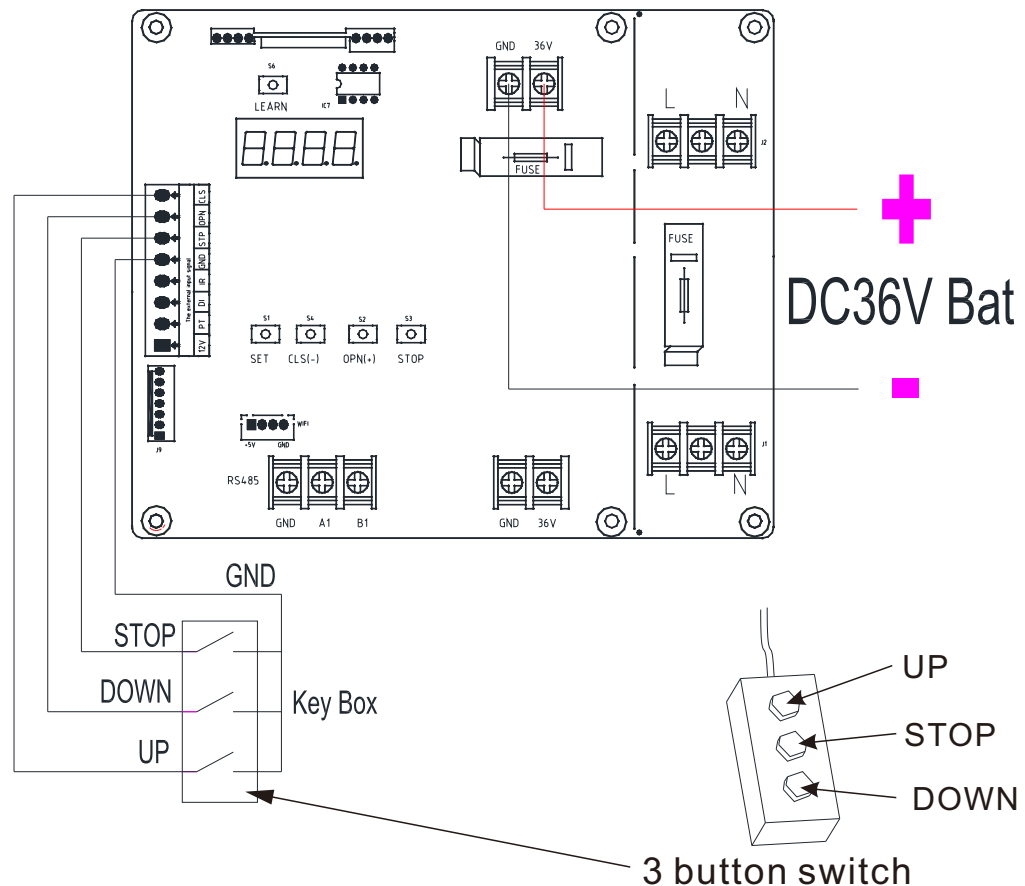
10.1. Operate the bollard No.1 and No.2 by switch No.4;

10.2. Operate the bollard No.3 and No.4 by switch No.5;

10.3. Operate the bollard No.5 and No.6 by switch No.6.



11. Connect 3 button switch



Note: The maximum frequency for operating bollard is 15 seconds per time, if need emergency operation, push stop button then push up or down button.

12. Trouble shooting

No.	Trouble	Case	Shooting
1	Bollard does not work when power on	Parameter not be set	Check parameter setting
		No power	Check the power supply
		The force is set too weak	Increase the current
2	Big noise	Motor is broken	Replace the motor