

# YASONI GROUP TRAFFIC LIGHT SOLUTION

Marketing Dept  
2018.04.21  
Version 3.0



## 01. Traffic Light System

Composed by intelligent traffic light controller, controlling system, traffic light, traffic light pole, cables and etc.

## 02. Solar Traffic Light System

Composed by solar traffic light controller, controlling system, traffic light, traffic light pole, solar panel, solar battery cables and etc.

## 03. Product Introduction

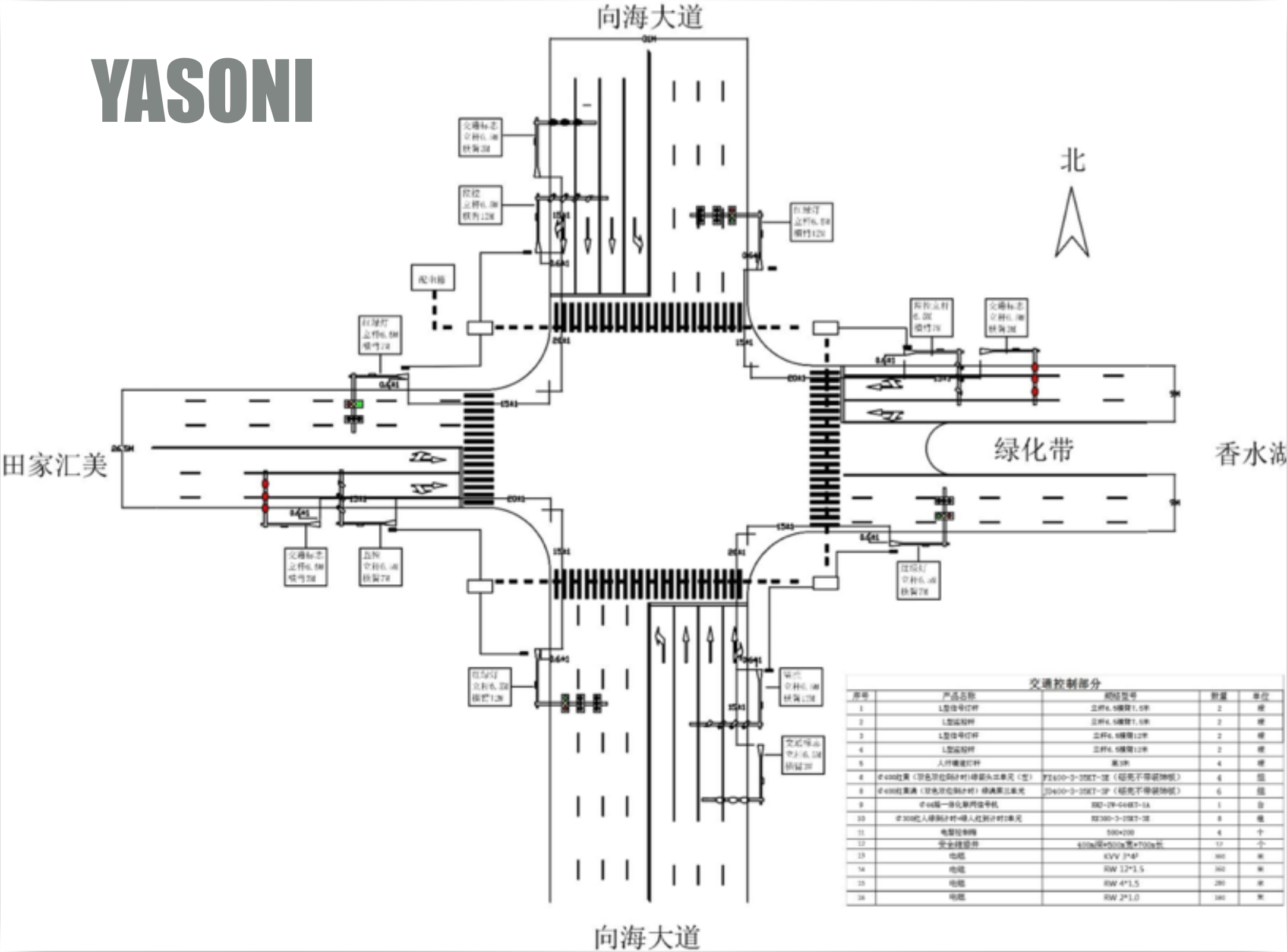
Traffic lights are classified by materials, size and applications such as 300mm full-screen traffic light made from aluminum.

## 04. What YASONI Can Provide

YASONI has focused on traffic equipment and provide design, manufacture, installation guidance and maintenance.



# 1.1 General View For Crossing



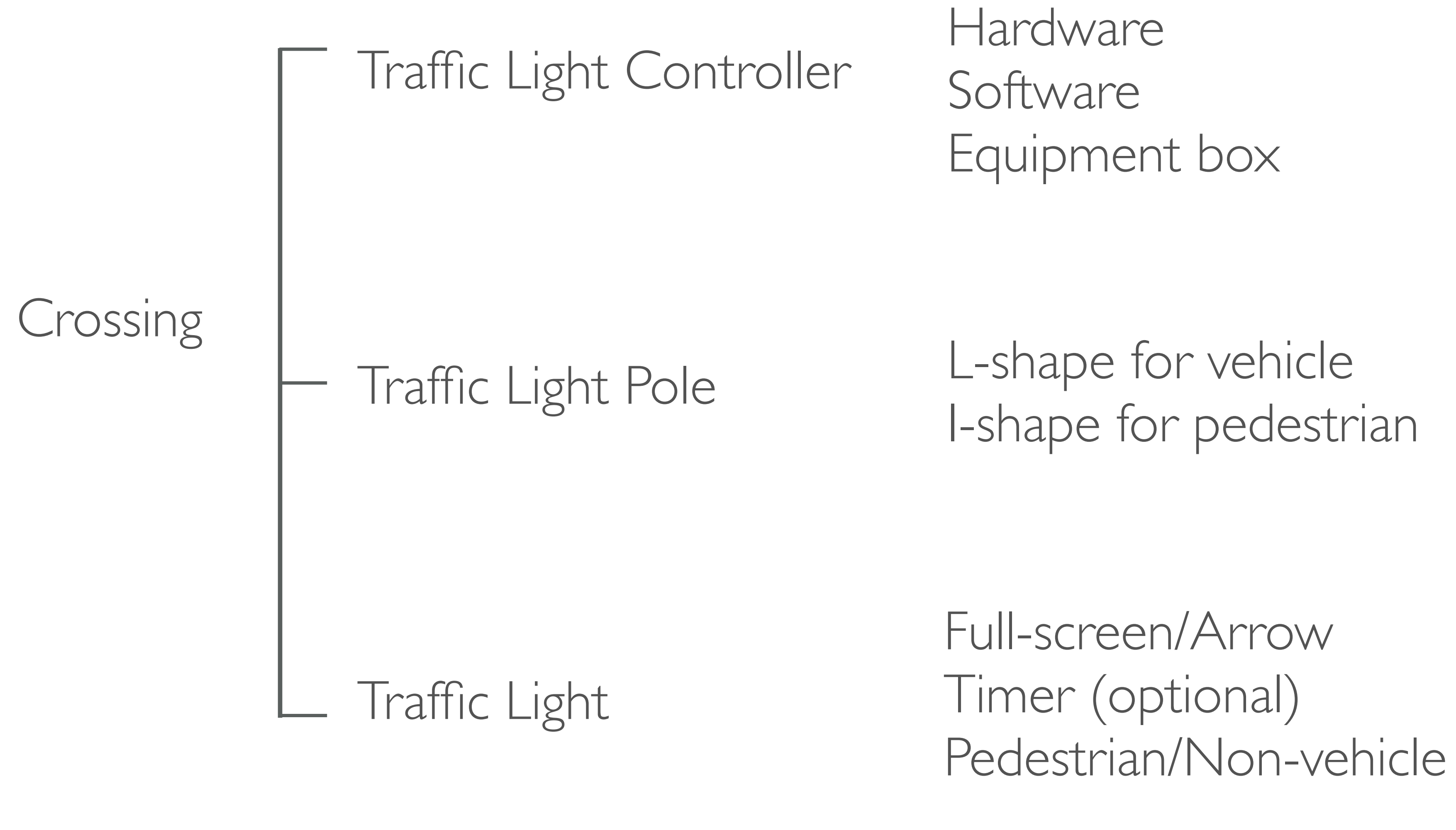
CAD Picture for Crossing



3D Max Picture for Crossing



## I.2 What Is A Traffic Sytem Composed Of





# I.3 Product List For Traffic Light System

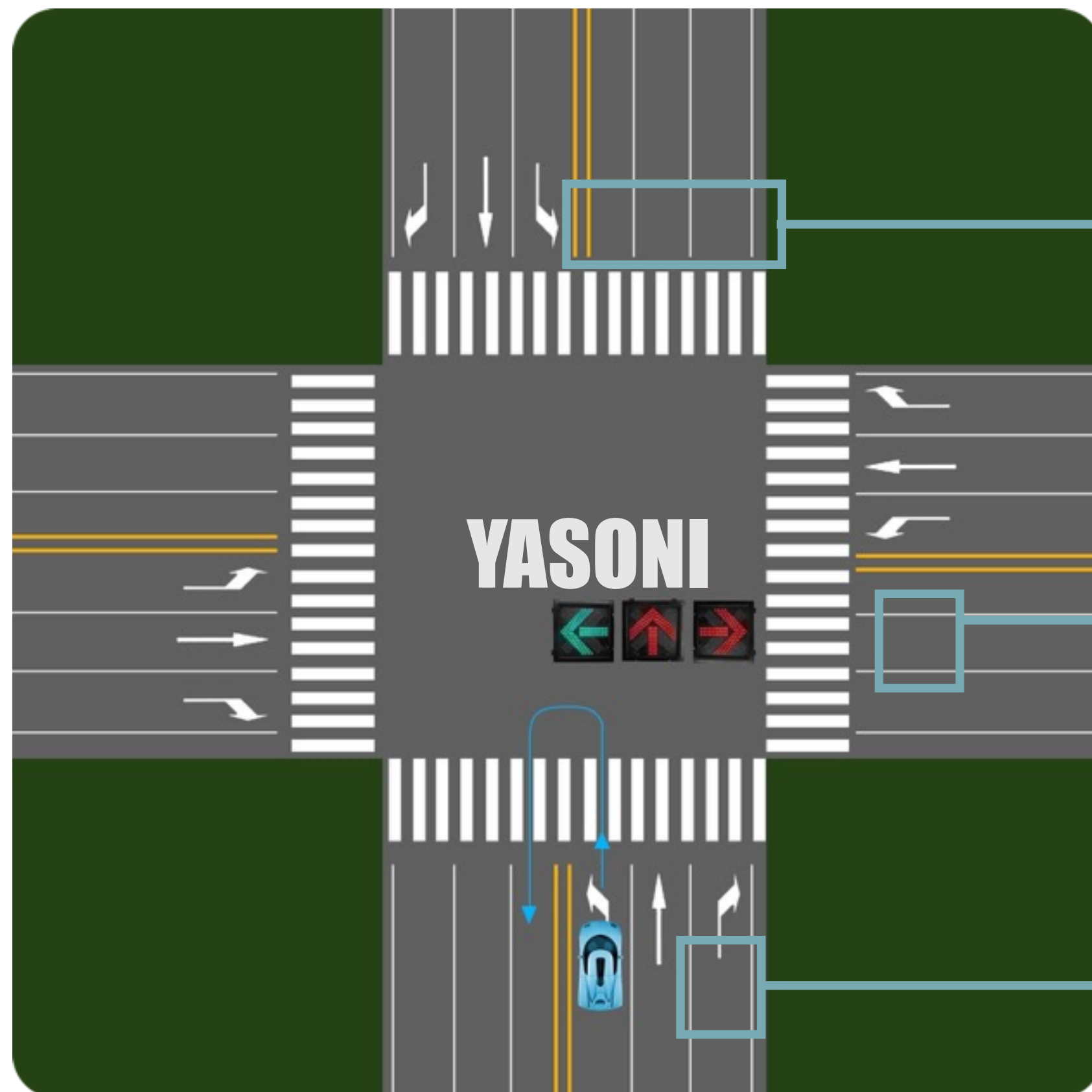
## Solar Traffic Light Solution No.002 —For Two Direction Six Lanes

No.	Equipmentt	Model	Specification	Qty
Part 1. Host Traffic Light Contoller				
1	Traffic Light Contoller	XT-TLC		1
2	Equipent Box	XT-SEP	500×300×220mm, stainless steel	1
3	Controlling System	XT-SEP	XINTONG engineer provide guidance	1
Part 2. Poles and Embedded Parts				
1	7.5m Traffic Light Pole	7.5×8m	L-shape octagonal pole; hot-dip galvanized steel Q235 Pole: (280-340)×6×7500; Flange: Ø550×18; Cantilever: (110-220)×4×8000; Cantilever: 400×400×16;	4
2	7.5m Embedded Parts	Customized	8-M27-Ø500-L1500	4
3	3m Pedestrian Light Pole	3m	I-shape cylindrical pole; hot-dip galvanized steel Q235 Pole: 89×3×3000; Flange: Ø280×10;	8
4	3m Embedded Parts	Customized	4-M20-Ø220-L600	8
Part 3. Traffic Light				
1	Arrow Traffic Light	FX403-1S	Ø400mm, Makrolon, including hoop	4
2	Full-ball Traffic Light	JD403-1S	Ø400mm, Makrolon, including hoop	4
3	Timer	DJS800-III	800×600mm, Makrolon, Three-colour Timer, Including hoop	4
4	Pedestrian Traffic Light	JD302-1S	Ø200mm, Makrolon, including hoop, without timer	8
Part 4. Others				
1	Cable	RVV4×1.5mm²	Cable for solar traffic light	400
2	YASONI engineers provide onsite training service and debug service.			





## I.4 Consider Three Factors When Designing A Crossing



### How many lanes of each direction ?

Three lanes in this picture  
Affect the length of cantilever and traffic light style

### What is the width of each lane ?

Mostly among 1.5~2.2m  
Affect the length of cantilever

### Which lane should be controlled separately ?

Left turn, right turn and straight direction  
Affect the traffic light style



## I.5 How Many Traffic Lights On Each Pole



### Full Screen Traffic Light

Generally used for simple crossing with one or two lanes



### Full Screen + Left Arrow + Countdown Timer

Generally used when left turn if controlled separately



### Three Arrow Traffic Light

Generally used for complex crossing with more than three lanes

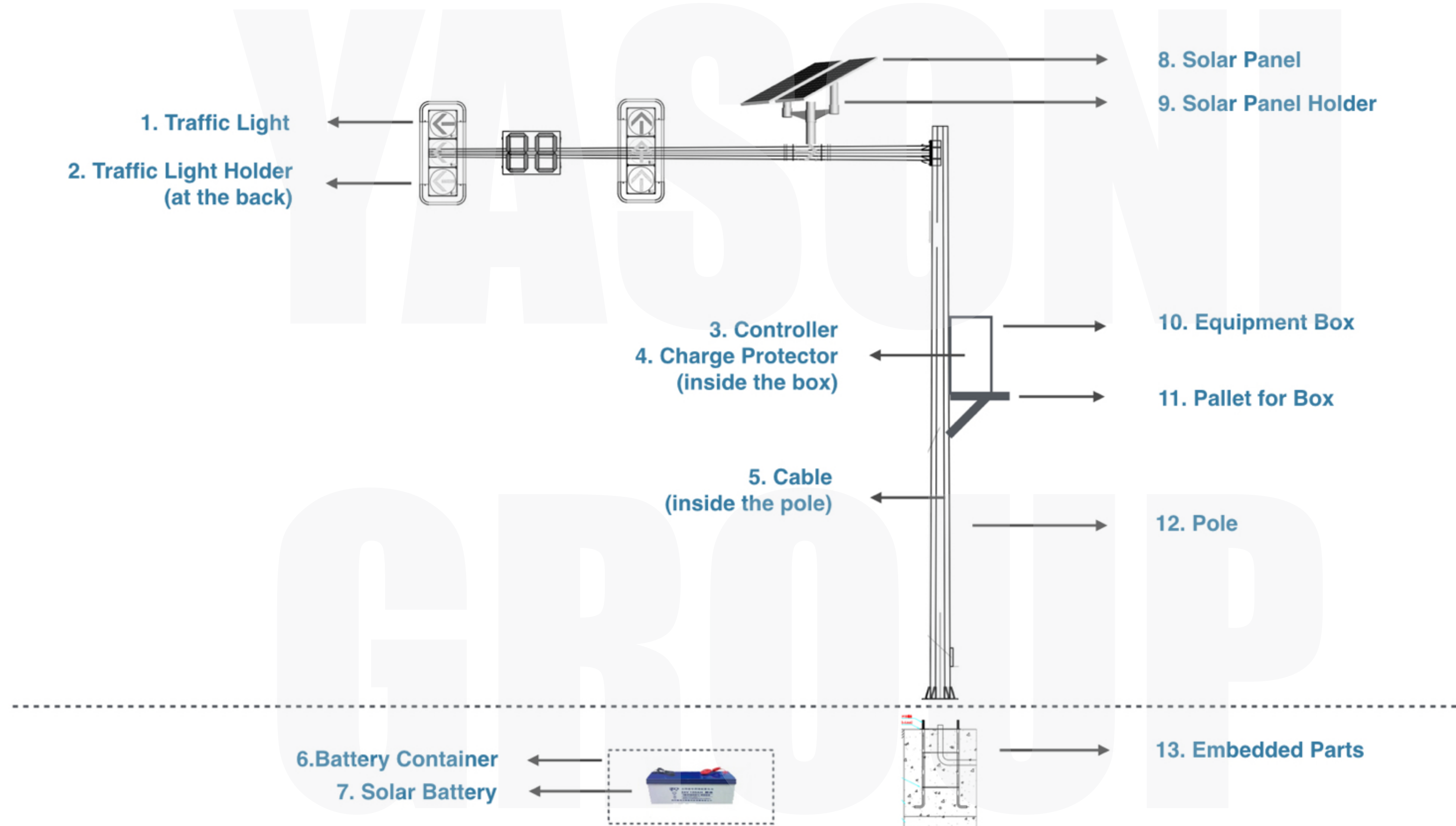


### Three Arrow Traffic Light + Non-vehicle

Generally used for complex crossing with non-vehicle lane

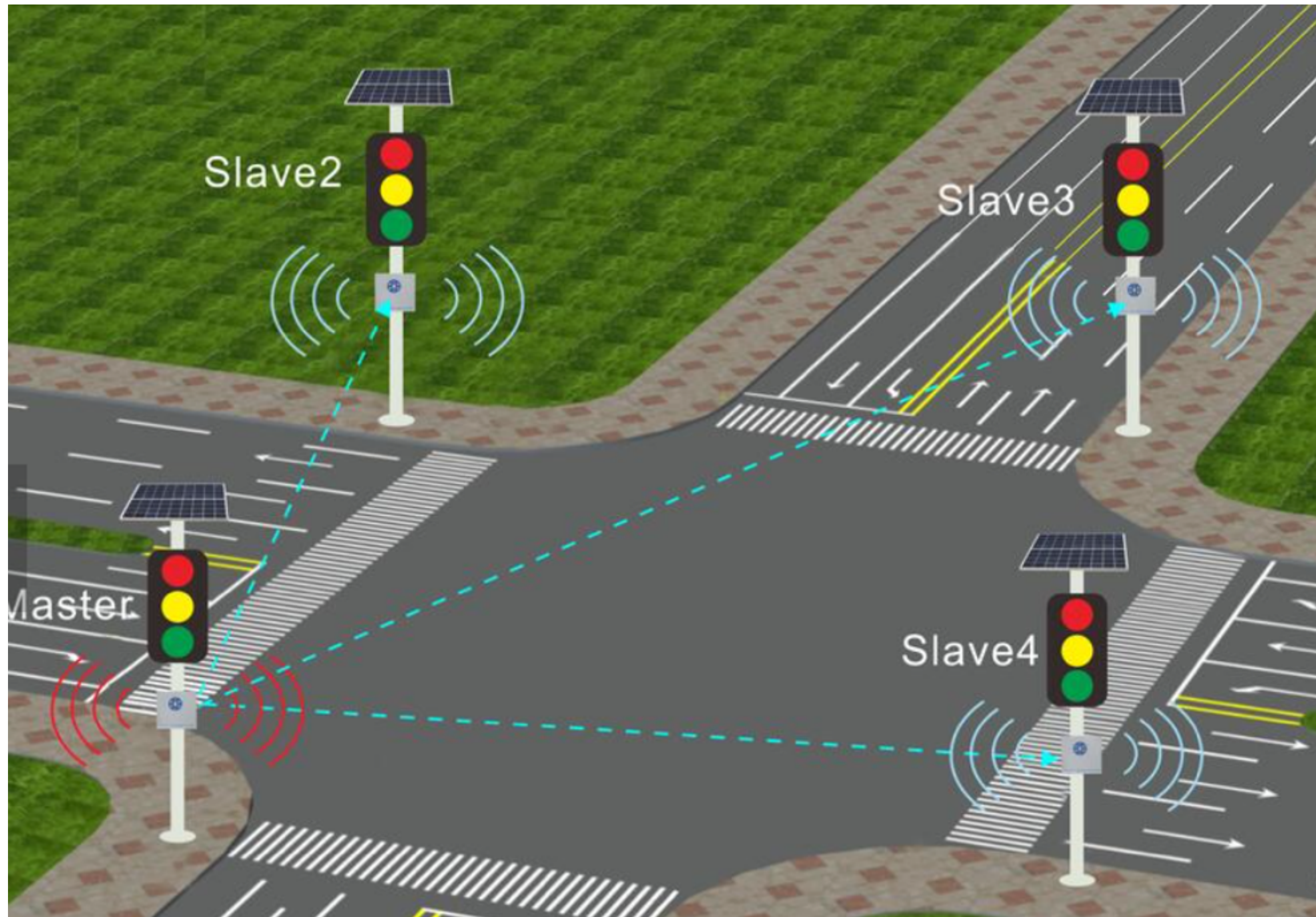


## 2.1 General View For Solar Traffic Light System





## 2.1 General View For Solar Traffic Light System





## 2.3 Product List For A Solar Traffic Light System — Example

Solar Traffic Light Solution No.002 — For Two Direction Six Lanes					
No.	Equipmentt	Model	Specification	Qty	Unit
Part 1. Traffic Light					
1	Arrow Traffic Light	FX403-1S	Ø400mm, Makrolon, including hoop	4	Set
2	Timer	DJS800-III	800×600mm, Makrolon, Three-colour Timer, Including hoop	4	Set
3	Full-ball Traffic Light	JD403-1S	Ø400mm, Makrolon, including hoop, without timer	4	Set
4	Pedestrian Traffic Light	JD403-1S	Ø300mm, Makrolon, including hoop, without timer	8	
Part 2. Host Equipment					
1	Solar Contoller	XT-TYN-22L	16 phase solar controller, one main there subsidiary	1	Unit
2	Equipent Box	XT-SEP	500×300×220mm, stainless steel	4	Unit
3	Solar Panel	CRL-160W	160W Monocrystalline Solar Panel	4	Set
4	Solar Battery	HL-180AH	180Ah Solar Battery	4	Unit
5	Charge Protector		24V20Ah Solar Controller	4	Unit
6	Battery Box	HL-9	For 2*120AH Solar Battery	4	Unit
Part 3. Poles and Embedded Parts					
1	7.5m Traffic Light Pole	7.5×8m	L-shape cylindrical pole; hot-dip galvanized steel Q235 Pole: (280-340)×6×7500; Flange: Ø550×18; Cantilever: (110-220)×4×8000; Cantilever: 400×400×16;	4	Set
2	7.5m Embedded Parts	Customized	8-M27-Ø500-L1500	4	Set
3	3m Pedestrian Light Pole	3m	I-shape cylindrical pole; hot-dip galvanized steel Q235 Pole: 89×3×3000; Flange: Ø280×10;	8	
4	3m Embedded Parts	Customized	4-M20-Ø220-L600	8	
Part 4. Construction					
1	Embedded Parts Construction	Customized	1200×1200×1600	4	Unit
2	Cable	RVV4×1.5mm²	Cable for solar traffic light	400	m
3	YASONI engineers provide onsite training service and debug service.			5	Per Day



## 2.4 Solar Traffic Light Specification List


Recommended Spec for Solar Traffic Light		
Traffic Light Combination	Solar Panel	Solar Controller
1 set full screen	12V60W	12V10Ah
1 set full screen + 1 set timer	12V120W	12V15Ah
1 set full screen + 1 set timer + 1 set pedestrian (without timer)	12V140W	12V20Ah
1 set full screen + 1 set timer + 1 set pedestrian (with timer)	12V160W	12V20Ah
2 sets arrow	12V50W	12V10Ah
2 sets arrow + 1 set timer	12V100W	12V15Ah
2 sets arrow + 1 set timer + 2 sets pedestrian (without timer)	12V140W	12V20Ah
2 sets arrow + 1 set timer + 2 sets pedestrian (with timer)	12V180W	12V20Ah
3 sets arrow	12V80W	12V10Ah
3 sets arrow + 1 set timer	12V140W	12V20Ah
3 sets arrow + 1 set timer + 2 sets pedestrian (without timer)	12V180W	12V20Ah
3 sets arrow + 1 set timer + 2 sets pedestrian (with timer)	12V240W	12V20Ah

Technical Index	
Lamp Diameter	φ300mm φ400mm
Operating Voltage	DC 12V
Rated Power	<10w
Light Source Life	≥50000 hours
Environment Temperature	-40℃~ +70℃
Relative Humidity	≤95%
Reliability	MTBF≥ 10000 hours
Maintainability	MTTR≤0.5 hours
Protection Level	IP55



2.5 Solar Traffic Light Specification List —Example

YASONI



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YASONI



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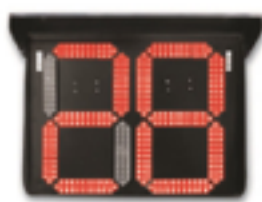
140W

YASONI




+

YASONI



+

YASONI



=

160W

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+

YASONI



+

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=

180W

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+

YASONI



+

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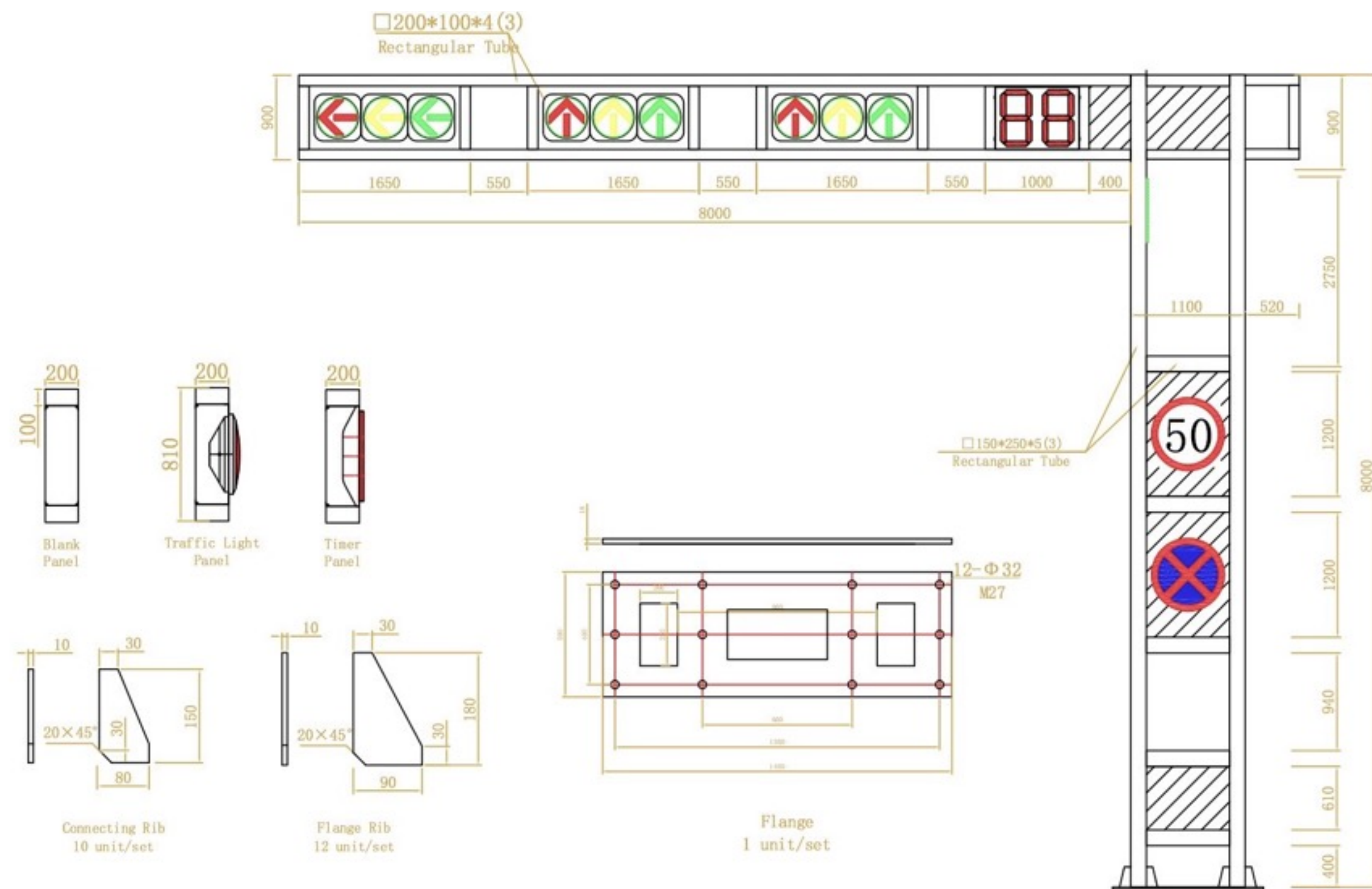


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240W

### 3.1.1 Traffic Light Pole Classification

#### Fram Pole



CAD Picture

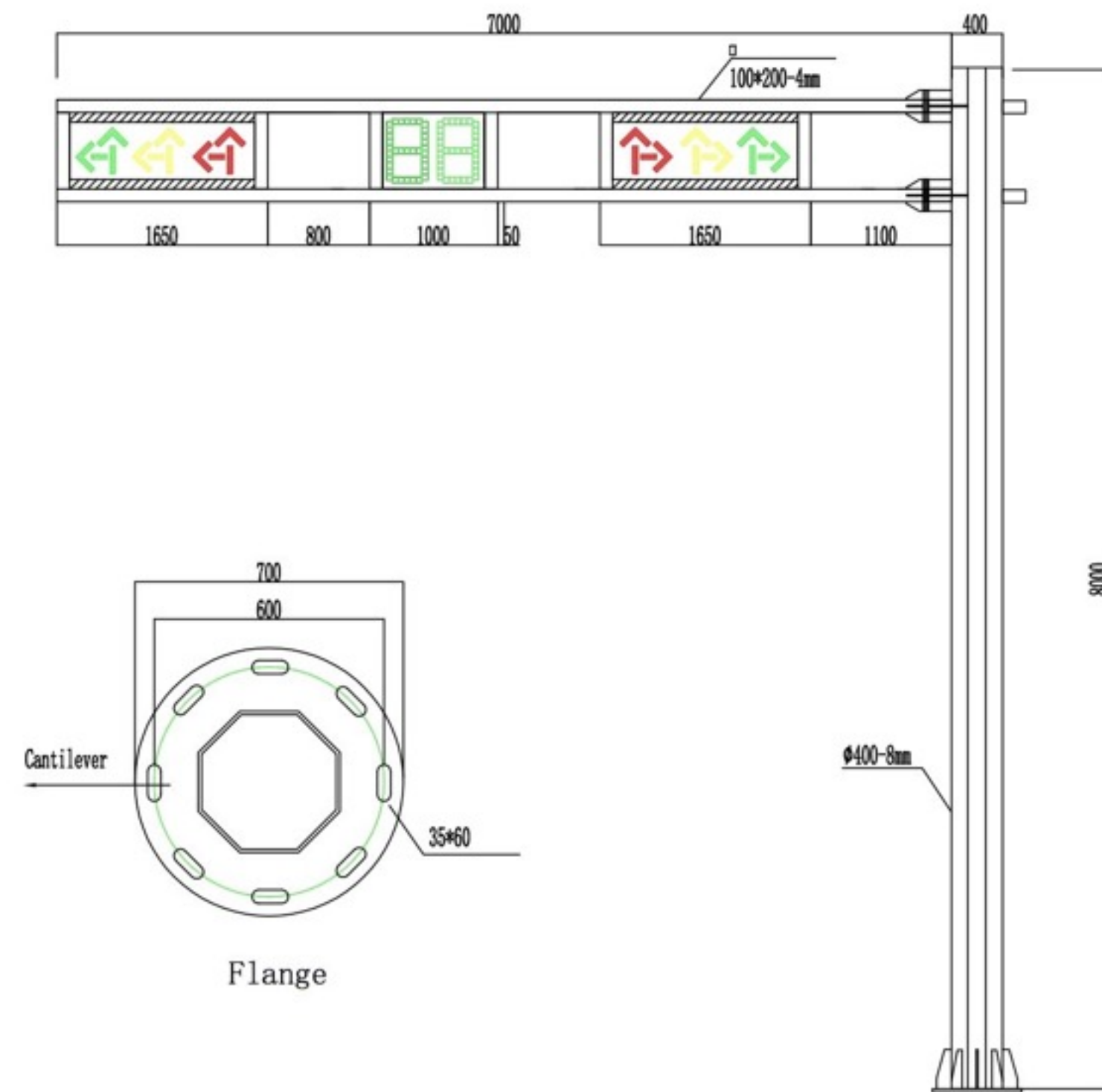


3D Max Picture



### 3.1.1 Traffic Light Pole Classification

#### Fram + Octagonal Pole



CAD Picture

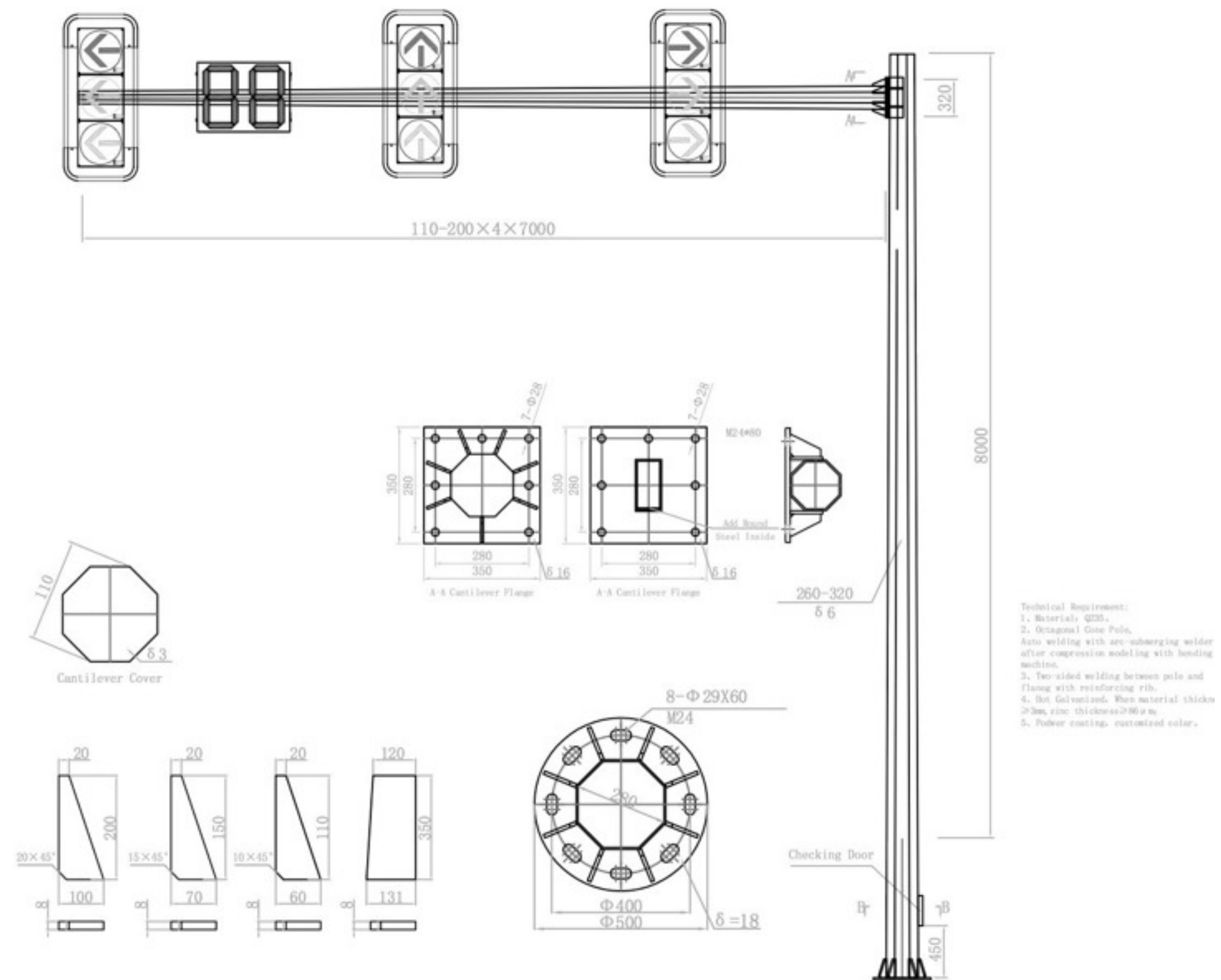


3D Max Picture



## 3.1.1 Traffic Light Pole Classification

### Octagonal Pole



CAD Picture

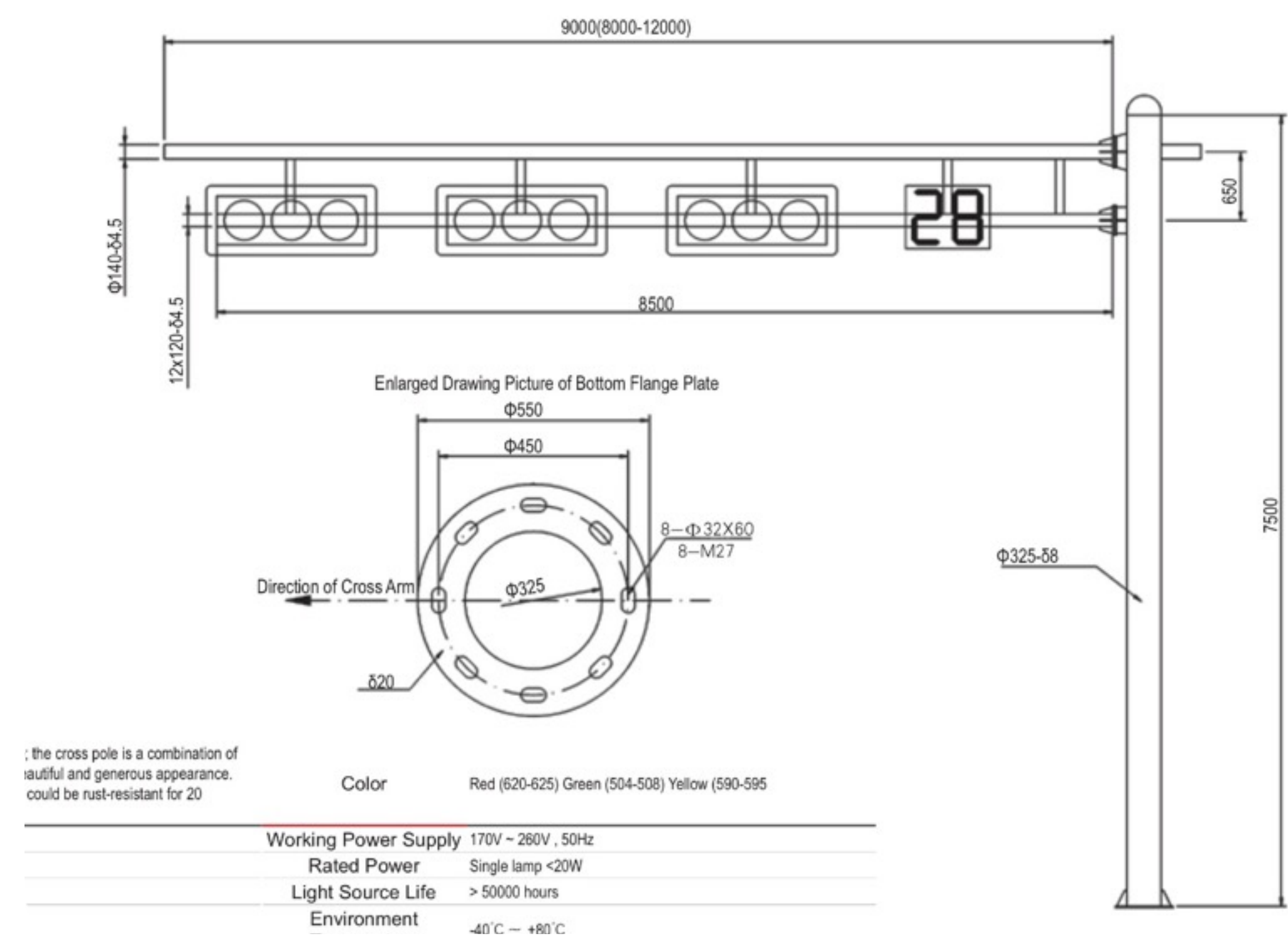


3D Max Picture



# 3.1.1 Traffic Light Pole Classification

## Suspended Pole



CAD Picture



3D Max Picture



### 3.2.1 Traffic Light Product Classification

Classified by **diameter** : 100mm 200mm 300mm 400mm 600\*800mm

Classified by **material** : Plastic Aluminum

Classified by **style** : Full-screen Arrow Pedestrian Non-vehicle Timer

Classified by **power supply** : Electric Solar

Classified by **structure** : Integrated Separated

3.2.2 Traffic Light Product Series



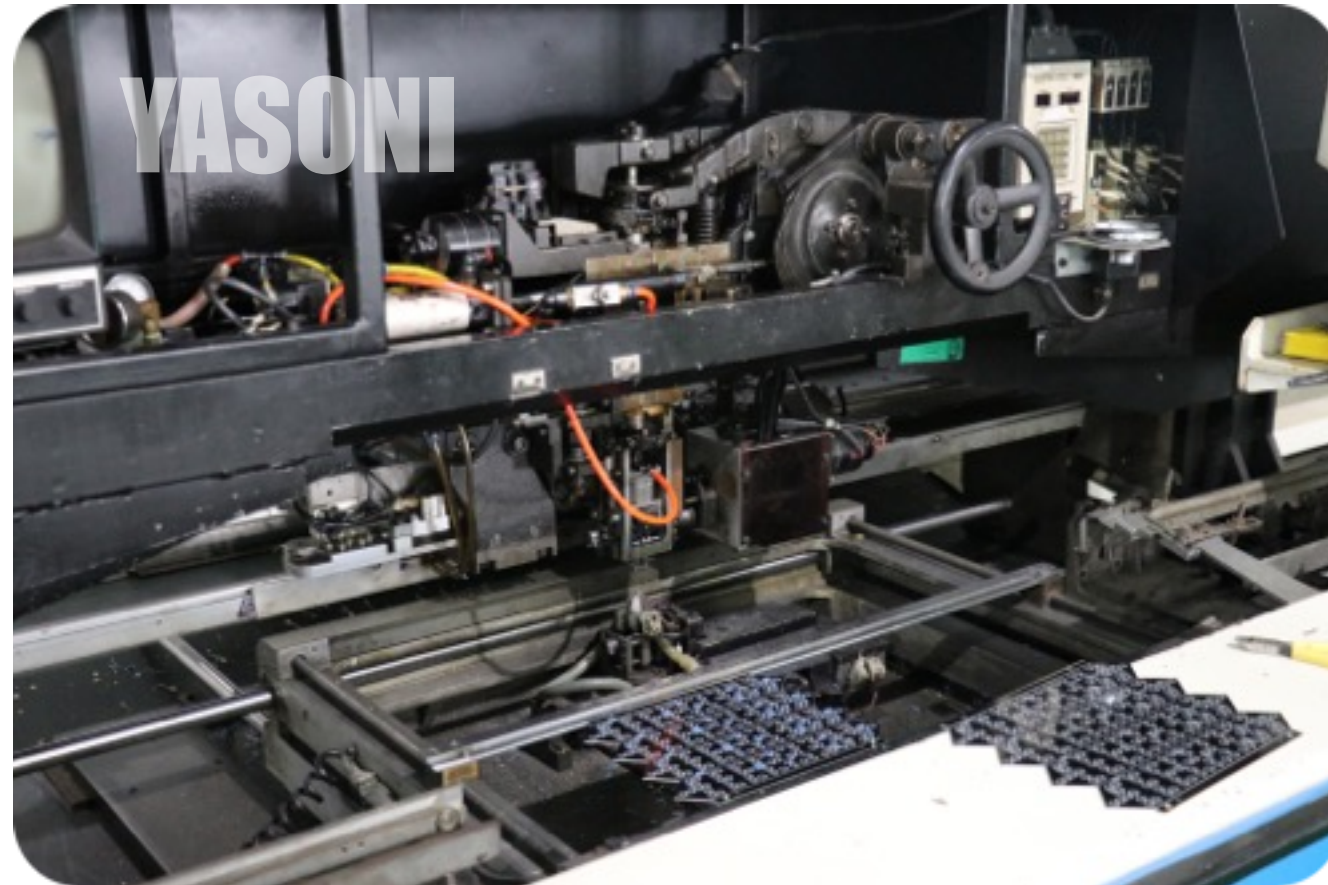


3.2.2 Traffic Light Product Series

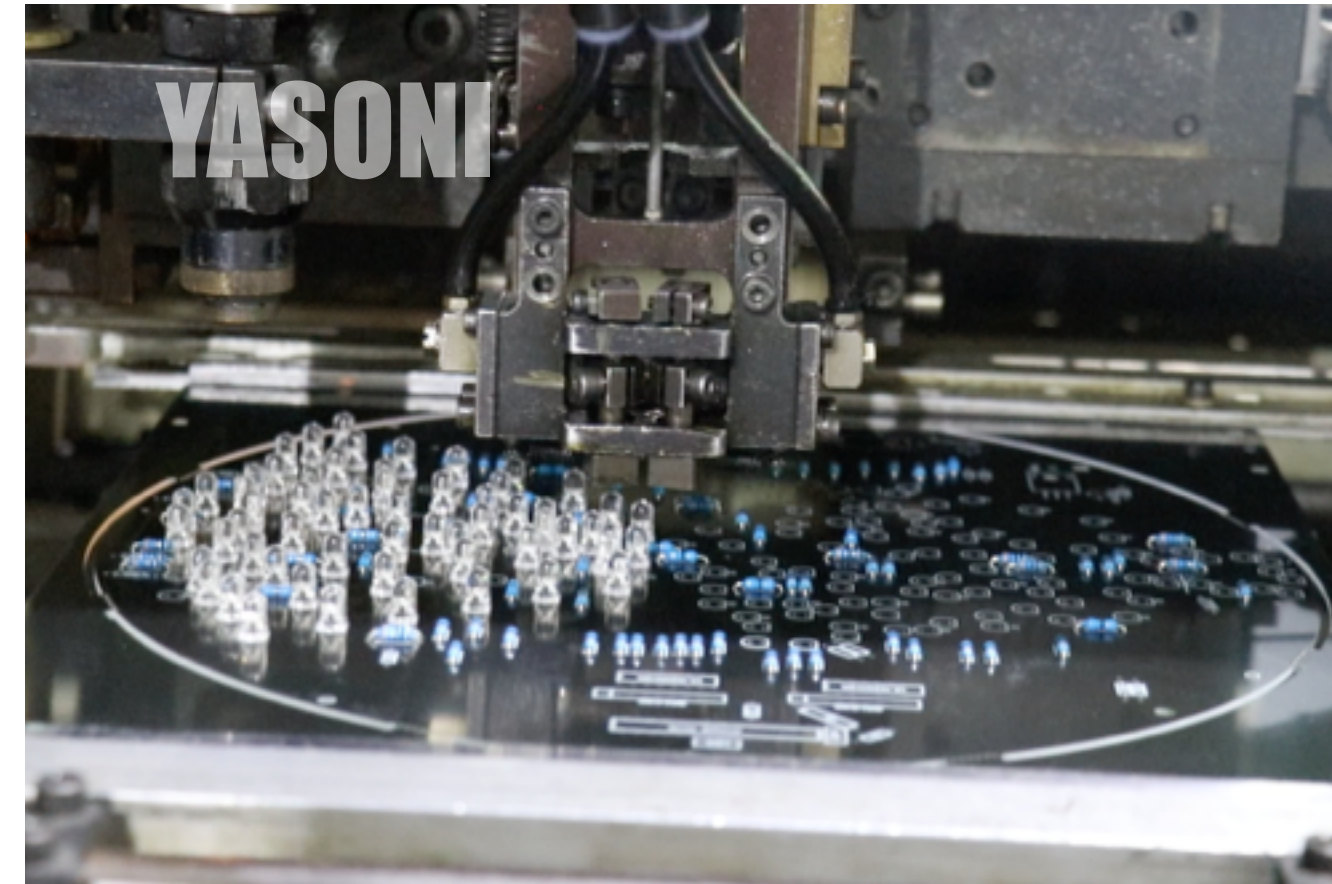




### 3.2.3 Traffic Light Manufacture Process



Step 1: Auto-add Resistance



Step 2: Auto-add LED



Step 3: Manual Process



Step 4: Test



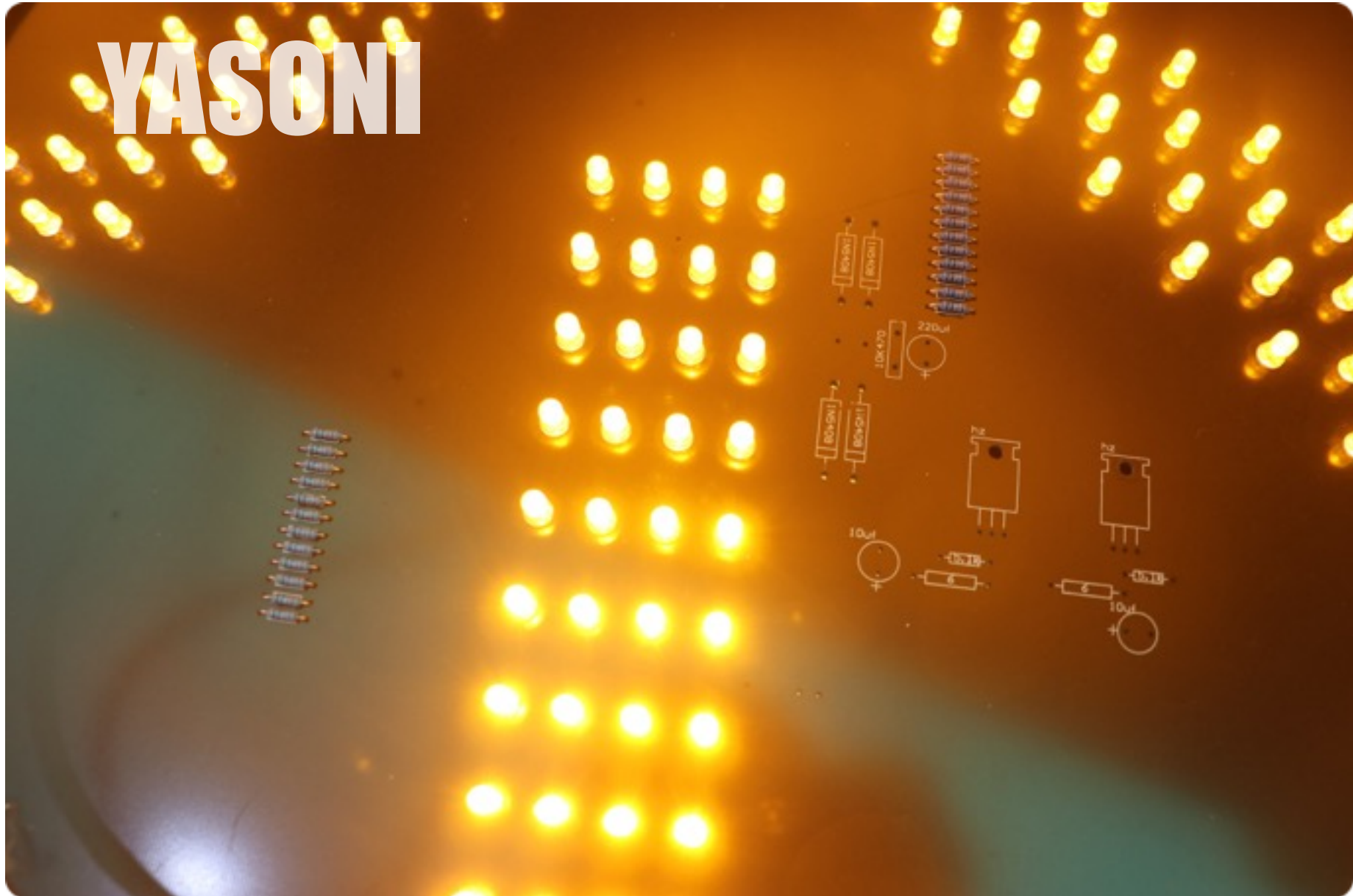
Step 5: Add Housing



Step 6: Assembly



3.2.4 Traffic Light Detail





## 4 What YASONI Can Do

### Design

Provide CAD Graph for the whole crossing and each product

### Install

YASONI Engineer provide Installation guidance in your country

### Manufacture

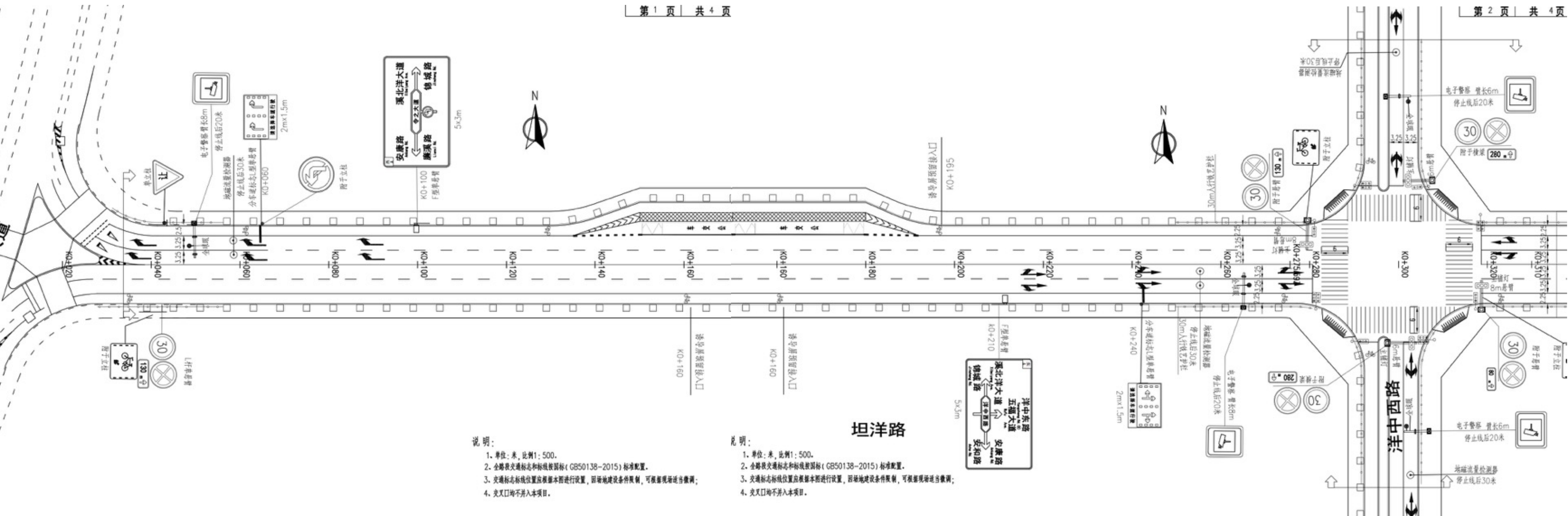
Produce all products including traffic light controller, traffic light, poles and other accessories

### Maintenance

YASONI engineer provide hardware & software maintenance

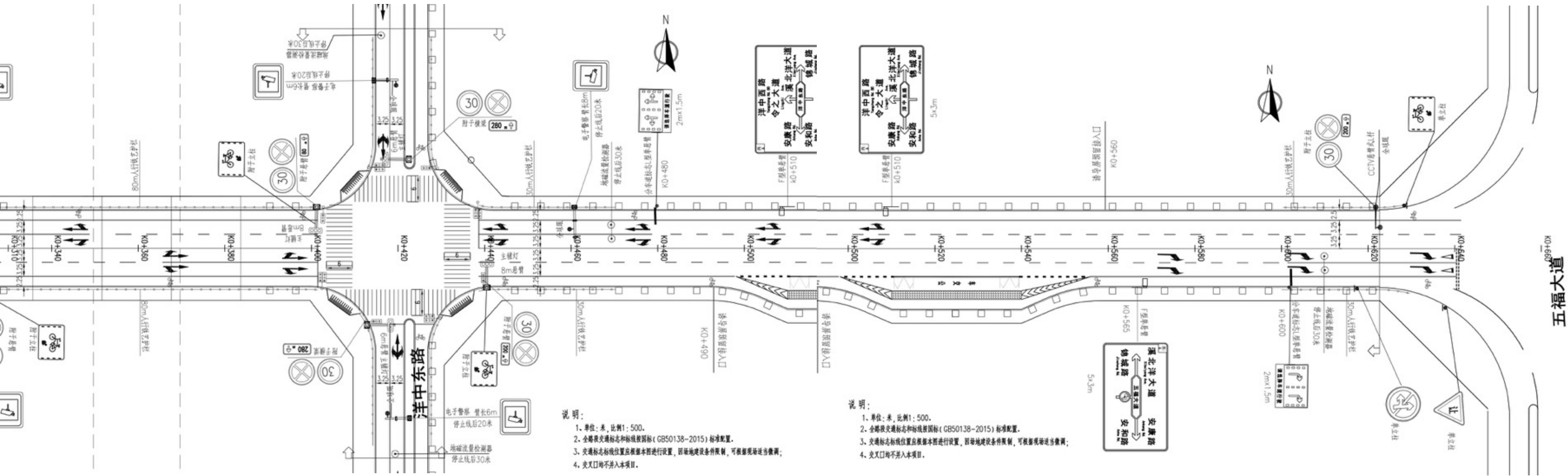


# 4.1 Step One: YASONI Provide CAD Design For The Whole Crossing



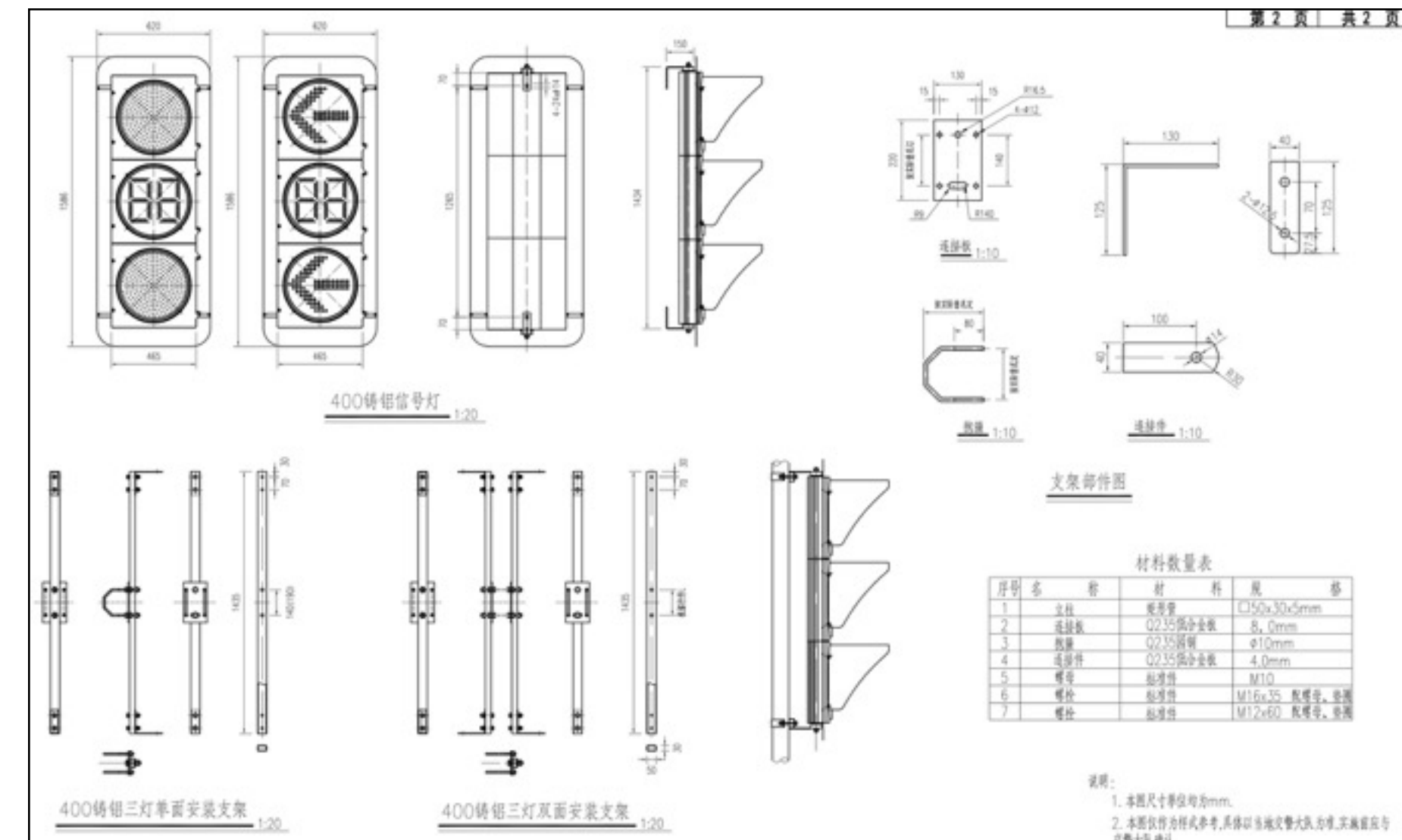
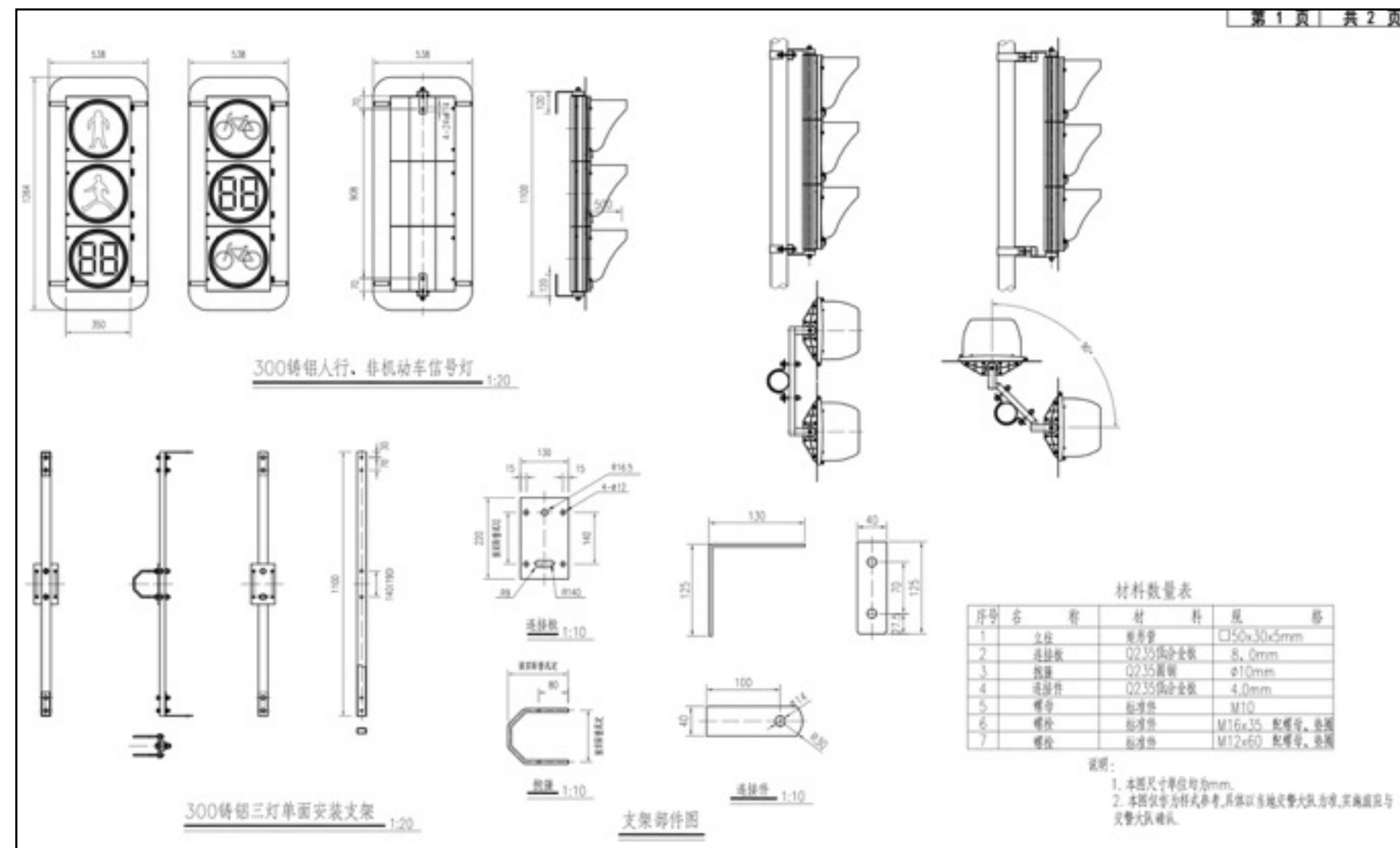
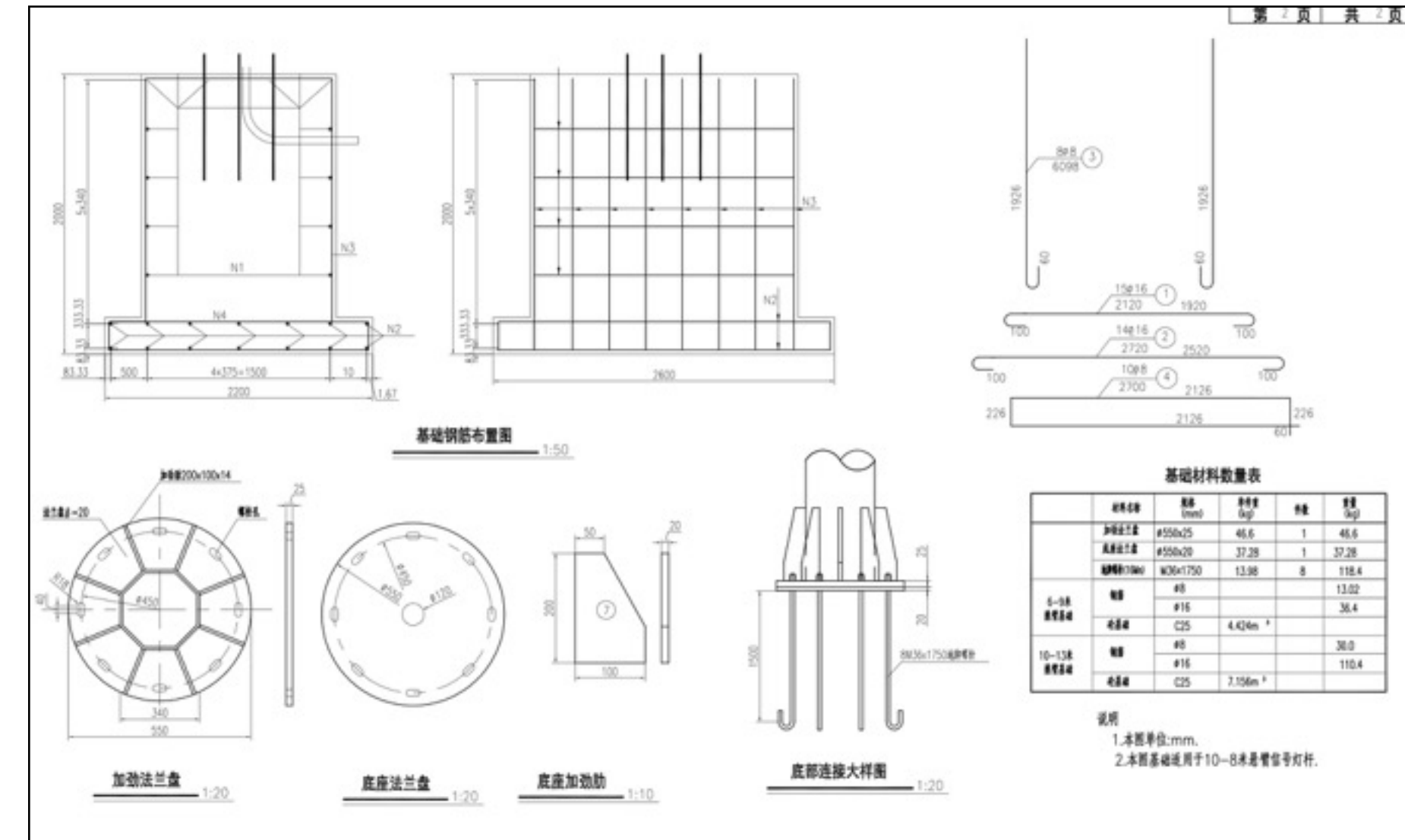
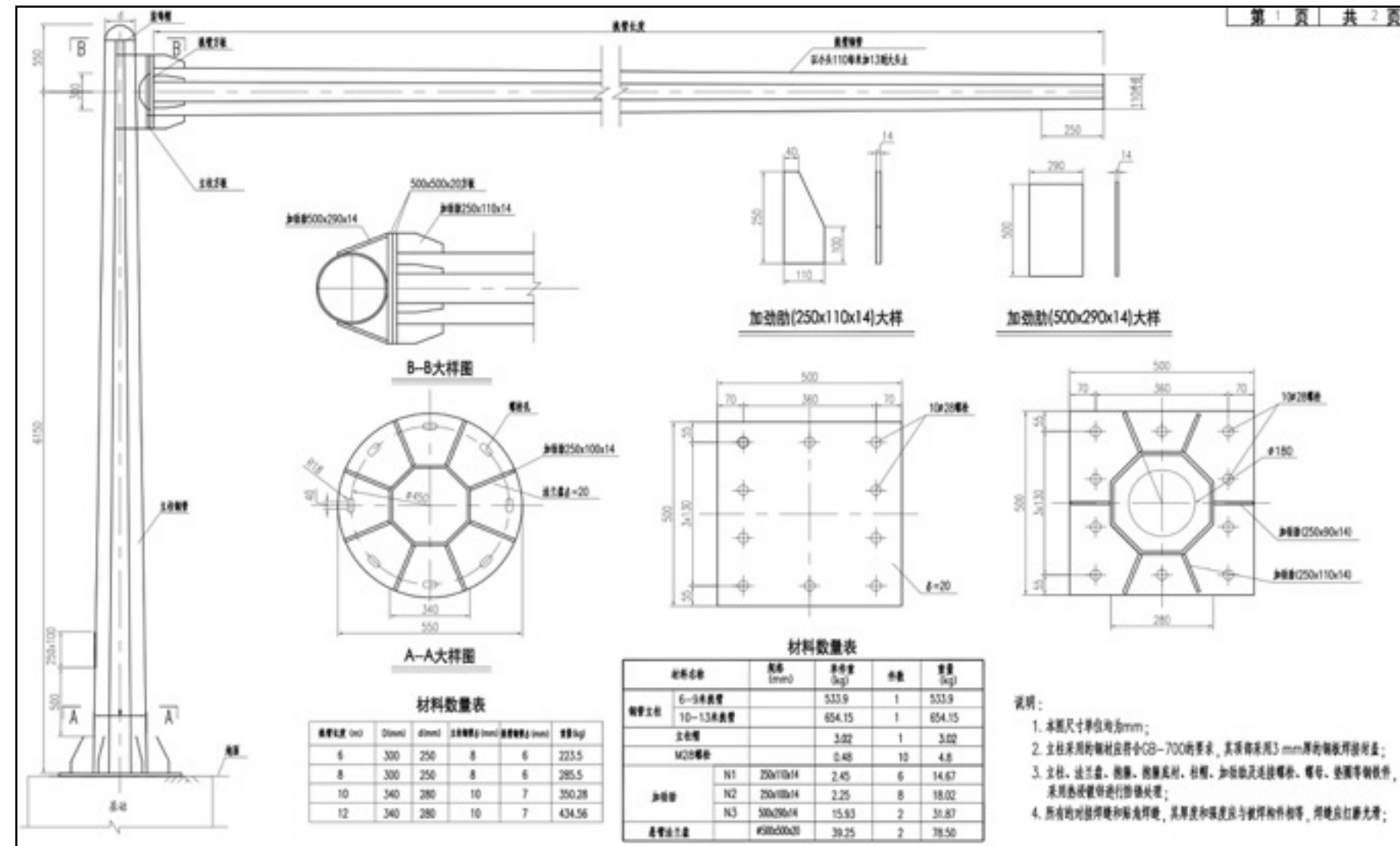


# 4.1 Step One: YASONI Provide CAD Design For The Whole Crossing





## 4.2 Step Two: YASONI Provide CAD Design For Each Product





### 4.3 Step Three: YASONI Produce All Series Products





## 4.4 Step Four: YASONI Provide Insulation Guidance





# YASONI Project





# YASONI Project





# Thank You

## We Could Solve All Your Traffic Problems

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