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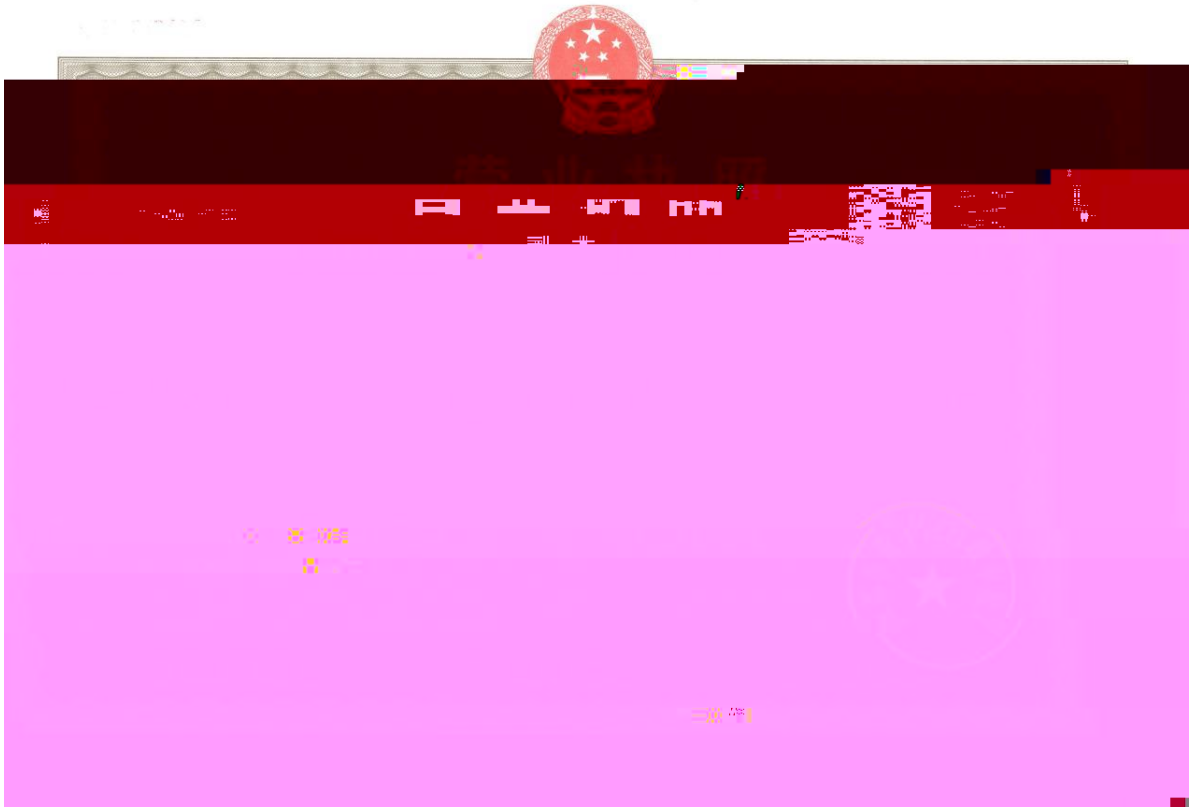

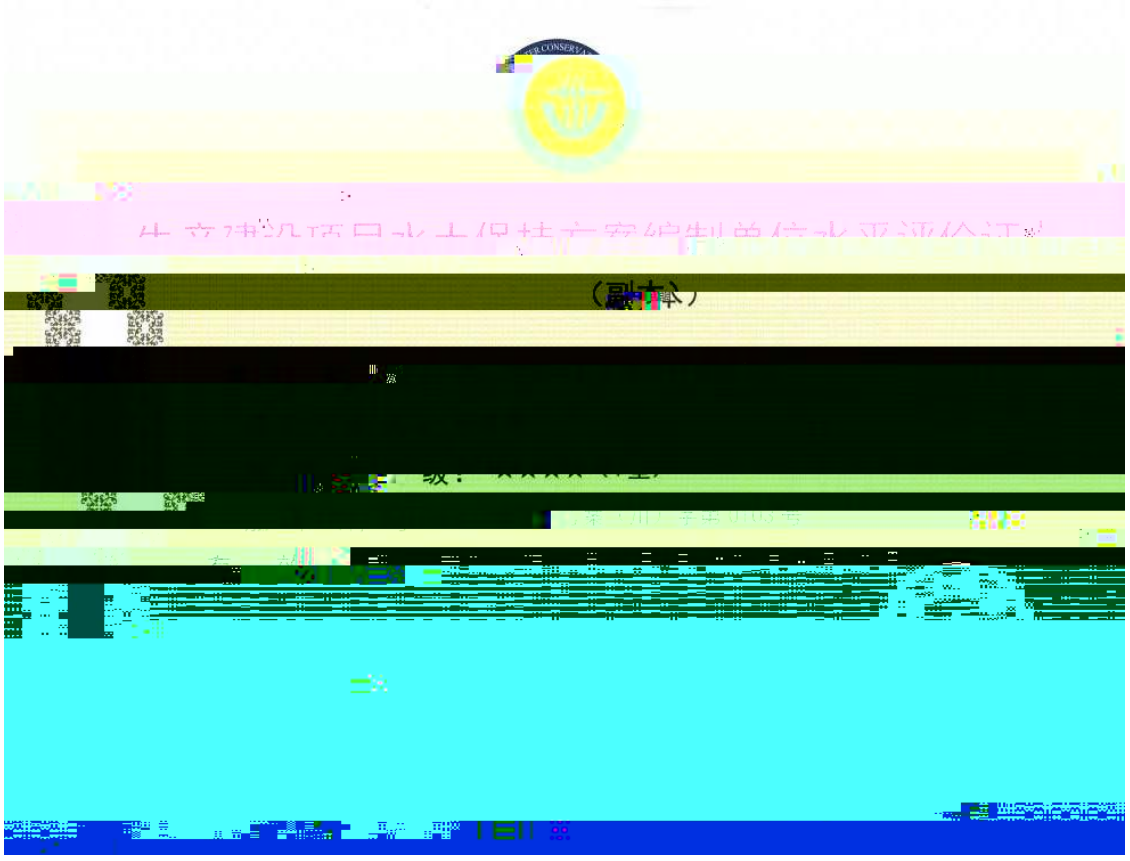

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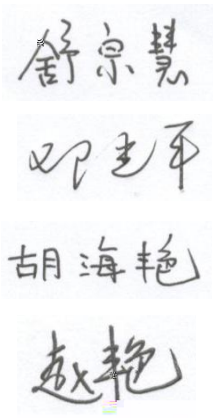

			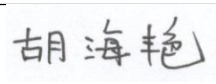
			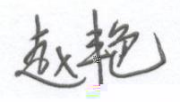

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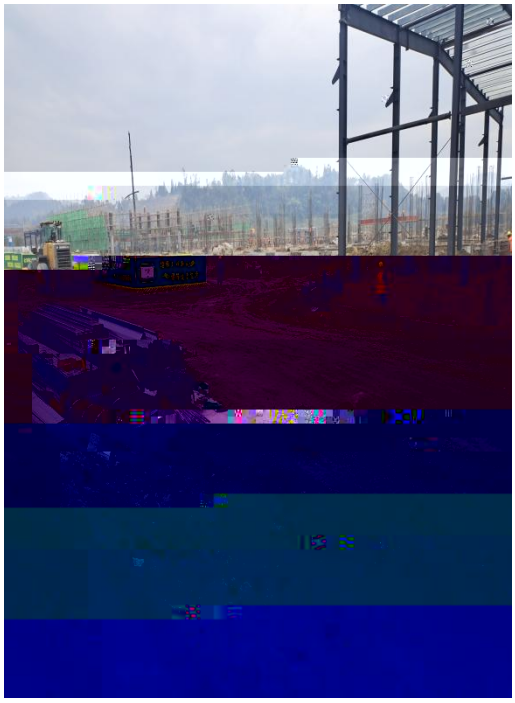

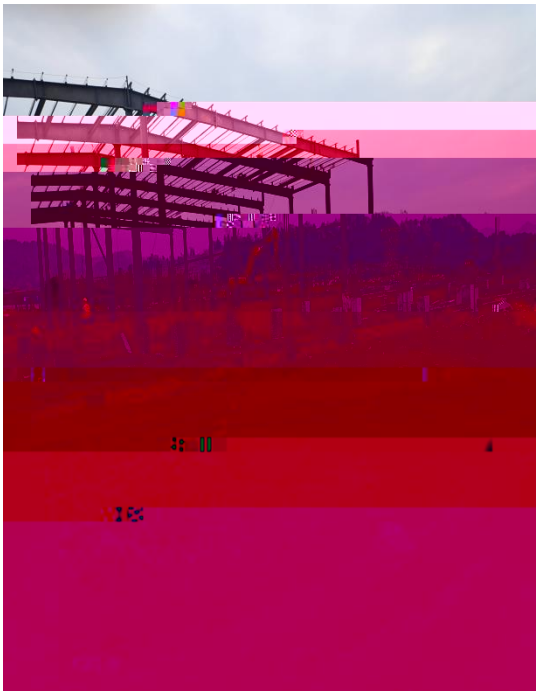

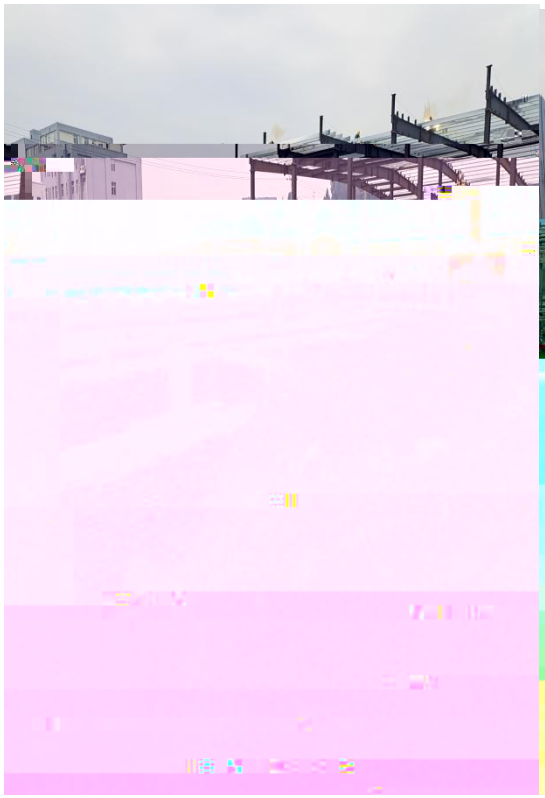

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1.2 3
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1.9 11
1.10 11
1.11 12

2.1 15
2.2 21
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3.07 ..... **27**
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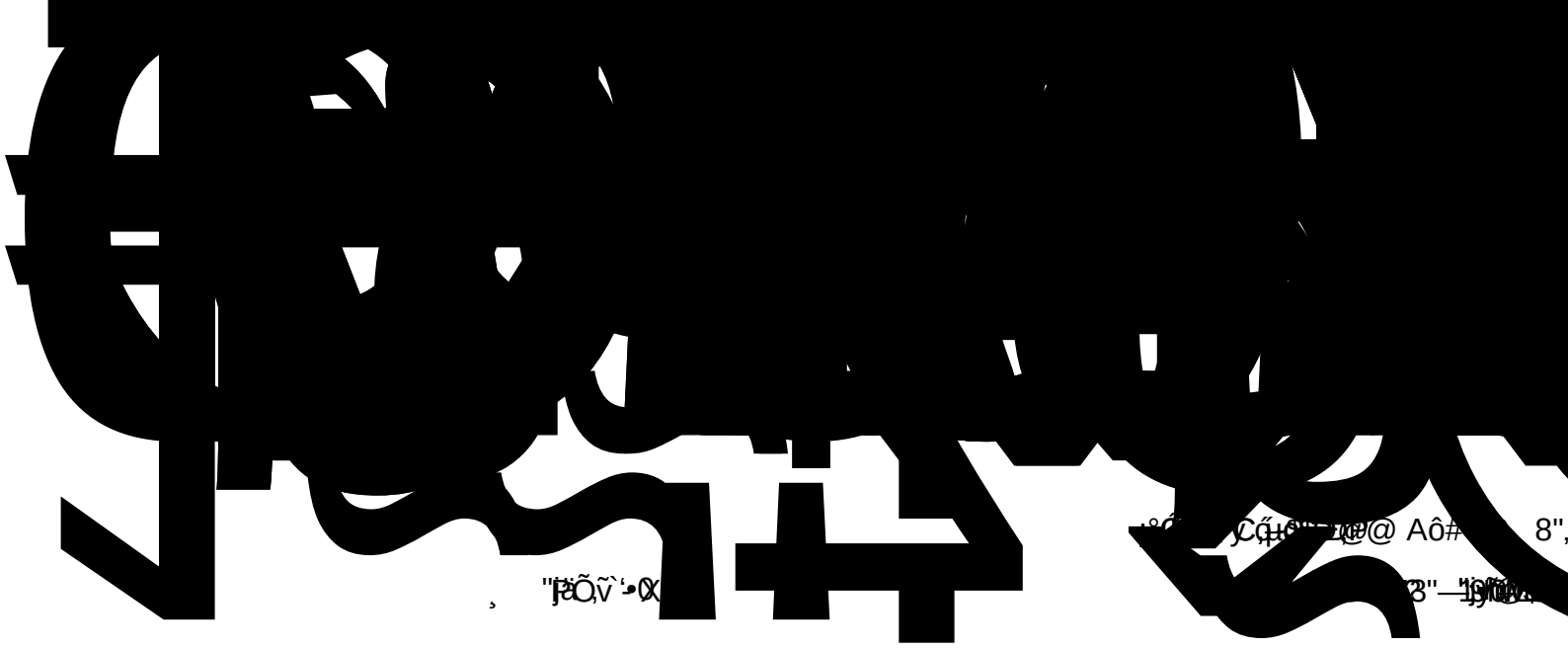
4.3 47
4.4 52
4.5 53

5.1 55
5.2 56
5.3 58
5.4 65

6.1 68
6.2 68
6.3 71
6.4 71

7.1 74
7.2 82

8.1 86
8.2 86
8.3 87
8.4 87
8.5 87
8.6 88



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ﺍﻟﻤﻮﺷﻚ ﻫﻮ ﺍﻟﻤﺴﻚ ﺍﻟﺬﻱ ﻳﺴﺘﺨﺪﻣﻪ ﺍﻟﻤﺼﻮﺭﻭﻥ ﻟﺘﺜﺒﻴﺖ ﺍﻟﻜﺎﻣﻴﺮﺍ ﻭﺍﻟﻌﺪﺳﺔ ﺃﺛﻨﺎﺀ ﺍﻟﺘﻘﺎﻁ ﺍﻟﺼﻮﺭ، ﻭﻳﺴﻤﻰ ﺃﻳﻀﺎً ﺣﺎﻣﻞ ﺍﻟﻜﺎﻣﻴﺮﺍ ﺃﻭ ﺍﻟﺤﺎﻣﻞ ﺍﻟﺜﻼﺛﻲ ﺍﻷﺭﺟﻞ. ﻭﻳﺘﻜﻮﻥ ﻣﻦ ﺛﻼﺙ ﺃﺭﺟﻞ ﻗﺎﺑﻠﺔ ﻟﻠﻄﻲ ﻭﺍﻟﻔﺘﺢ، ﻭﻳﺮﺗﻜﺰ ﻋﻠﻰ ﺳﻄﺢ ﺃﻓﻘﻲ ﺃﻭ ﻣﺎﺋﻞ ﺑﺤﺴﺐ ﺍﻟﺤﺎﺟﺔ.

ﺍﻟﺘﺎﺭﻳﺦ

ﻇﻬﺮ ﺍﻟﻤﻮﺷﻚ ﻣﻊ ﺗﻄﻮﺭ ﺍﻟﺘﺼﻮﻳﺮ ﺍﻟﻔﻮﺗﻮﻏﺮﺍﻓﻲ ﻓﻲ ﺃﻭﺍﺧﺮ ﺍﻟﻘﺮﻥ ﺍﻟﺘﺎﺳﻊ ﻋﺸﺮ، ﺣﻴﺚ ﺍﺣﺘﺎﺝ ﺍﻟﻤﺼﻮﺭﻭﻥ ﺇﻟﻰ ﻭﺳﻴﻠﺔ ﻟﺘﺜﺒﻴﺖ ﺍﻟﻜﺎﻣﻴﺮﺍ ﺑﺜﺒﺎﺕ ﻟﺘﻔﺎﺩﻱ ﺍﻟﺘﺸﻮﻳﺶ ﺍﻟﻨﺎﺗﺞ ﻋﻦ ﺍﻟﺤﺮﻛﺔ ﺃﺛﻨﺎﺀ ﺍﻟﺘﻌﺮﺽ ﺍﻟﻄﻮﻳﻞ ﻟﻠﻀﻮﺀ. ﻭﻗﺪ ﺗﻄﻮﺭ ﺍﻟﻤﻮﺷﻚ ﻋﺒﺮ ﺍﻟﺴﻨﻴﻦ ﻣﻦ ﺗﺼﺎﻣﻴﻢ ﺑﺴﻴﻄﺔ ﺇﻟﻰ ﺃﻧﻈﻤﺔ ﻣﻌﻘﺪﺓ ﺗﺤﺘﻮﻱ ﻋﻠﻰ ﻋﺪﺓ ﻣﻘﺎﻃﻊ ﻭﺭﺃﺳﻴﺎﺕ ﻣﺘﻌﺪﺩﺓ.

ﺃﻧﻮﺍﻉ ﺍﻟﻤﻮﺷﻚ

ﻳﻮﺟﺪ ﻋﺪﺓ ﺃﻧﻮﺍﻉ ﻣﻦ ﺍﻟﻤﻮﺷﻚ ﺗﺨﺘﻠﻒ ﺑﺎﺧﺘﻼﻑ ﺍﻟﻐﺮﺽ ﻣﻦ ﺍﺳﺘﺨﺪﺍﻣﻪ ﻭﺍﻟﻮﺯﻥ ﺍﻟﺬﻱ ﻳﺤﻤﻠﻪ. ﻓﺎﻟﻤﻮﺷﻚ ﺍﻟﺨﻔﻴﻒ ﻳﻨﺎﺳﺐ ﺍﻟﻜﺎﻣﻴﺮﺍﺕ ﺍﻟﺼﻐﻴﺮﺓ ﻭﺍﻟﻬﻮﺍﺗﻒ ﺍﻟﺬﻛﻴﺔ، ﺑﻴﻨﻤﺎ ﻳﺤﺘﺎﺝ ﺍﻟﻤﺼﻮﺭﻭﻥ ﺍﻟﻤﺤﺘﺮﻓﻮﻥ ﺇﻟﻰ ﻣﻮﺷﻚ ﺛﻘﻴﻞ ﻗﺎﺩﺭ ﻋﻠﻰ ﺣﻤﻞ ﻛﺎﻣﻴﺮﺍﺕ ﺍﻟﺴﻴﻨﻤﺎ ﻭﺍﻟﻌﺪﺳﺎﺕ ﺍﻟﻄﻮﻳﻠﺔ. ﻭﻫﻨﺎﻙ ﺃﻳﻀﺎً ﻣﻮﺷﻚ ﺍﻟﻄﺎﻭﻟﺔ ﺍﻟﺬﻱ ﻳﻮﺿﻊ ﻋﻠﻰ ﺳﻄﺢ ﻣﺴﺘﻮ، ﻭﻣﻮﺷﻚ ﺍﻟﻴﺪ ﺍﻟﺬﻱ ﻳﻤﺴﻚ ﺑﺎﻟﻜﺎﻣﻴﺮﺍ ﻣﺒﺎﺷﺮﺓ.

ﻃﺮﻳﻘﺔ ﺍﻻﺳﺘﺨﺪﺍﻡ

ﻟﻀﺒﻂ ﺍﻟﻤﻮﺷﻚ ﻳﺠﺐ ﻓﺘﺢ ﺃﺭﺟﻠﻪ ﻭﺗﺜﺒﻴﺘﻬﺎ ﻋﻠﻰ ﺍﻷﺭﺽ ﺑﺤﻴﺚ ﺗﻜﻮﻥ ﺍﻟﻤﺴﺎﻓﺔ ﺑﻴﻨﻬﺎ ﻣﺘﺴﺎﻭﻳﺔ، ﺛﻢ ﺭﻓﻊ ﺍﻟﺮﺃﺱ ﺇﻟﻰ ﺍﻟﻤﻨﺎﺳﺐ ﻭﺗﺜﺒﻴﺖ ﺍﻟﻜﺎﻣﻴﺮﺍ ﻋﻠﻴﻪ ﺑﺮﺑﺎﻁ ﺍﻟﻜﺎﻣﻴﺮﺍ ﺍﻟﻘﻴﺎﺳﻲ. ﻭﻳﻨﺼﺢ ﺑﺘﺠﻨﺐ ﺗﺮﻙ ﺍﻟﻤﻮﺷﻚ ﻣﻔﺘﻮﺣﺎً ﻓﻲ ﺍﻟﺸﻤﺲ ﺍﻟﻤﺒﺎﺷﺮﺓ ﻟﻔﺘﺮﺍﺕ ﻃﻮﻳﻠﺔ ﻟﺘﺠﻨﺐ ﺗﺸﻮﻩ ﺍﻟﻤﻌﺪﻥ.

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264.00 510.00 90.00

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	12158.17 72.00 778.23 510.00 90.00		965.25 264.00 1824

	19.85%					
	hm²					
	3.09	3.09	0			
	3.09	3.09	0			
	1.35	1.35	0			
	0.64	0	0.64			
	8.17	7.53	0.64			
	0.52	0.38			0	0
	0.24	0			0	0
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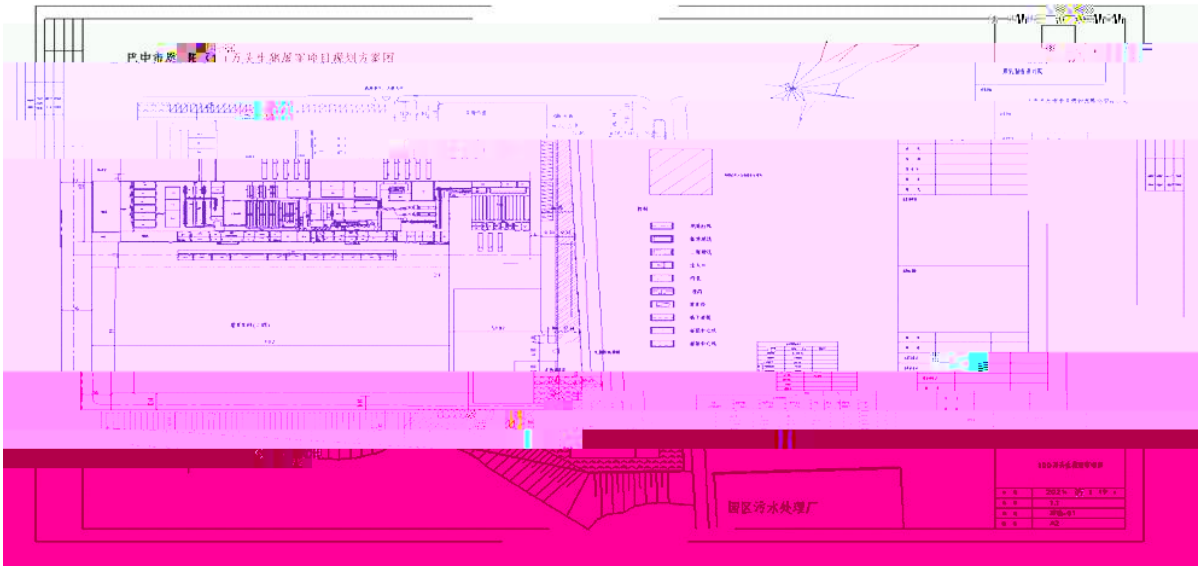

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	19.85%
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12158.17 965.25 72.00

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81678.65m² 75042.26m²

6636.39m²

8.17hm²

3.09hm²

3.072hm² 1.35hm² 0.66hm²

0.20hm²

0.29hm²

	/hm²			
	3.09	3.09	/	
	3.07	3.07	/	
	1.35	1.35	/	
	0.66	/	0.66	
*	0.29*	0.29*	/	
*	0.20*	0.20*	/	
	8.17	7.51	0.66	

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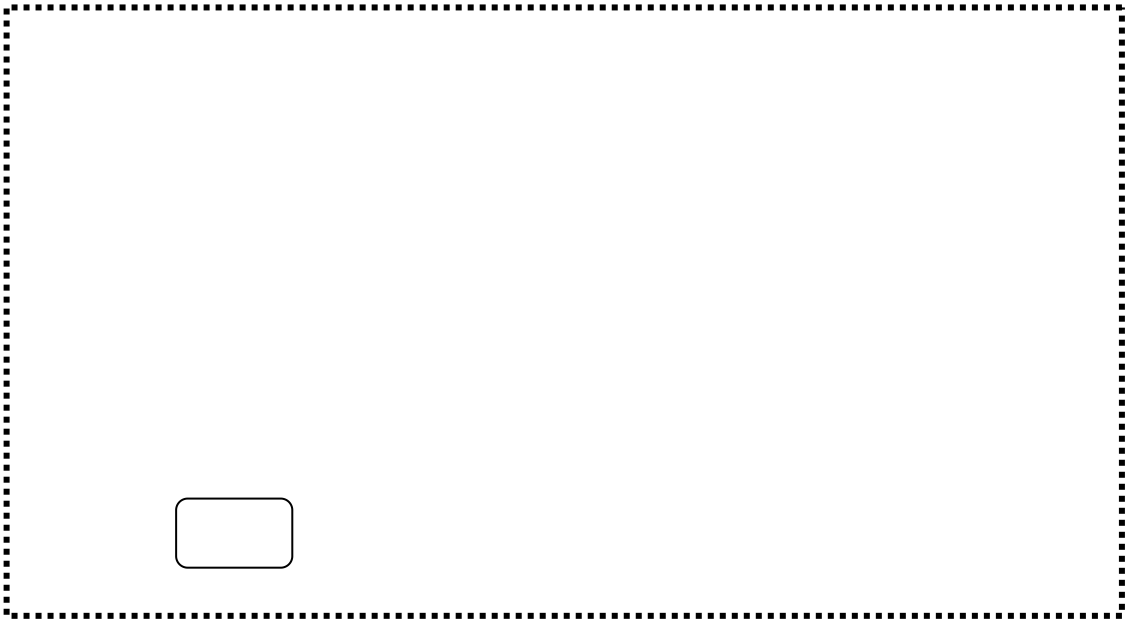

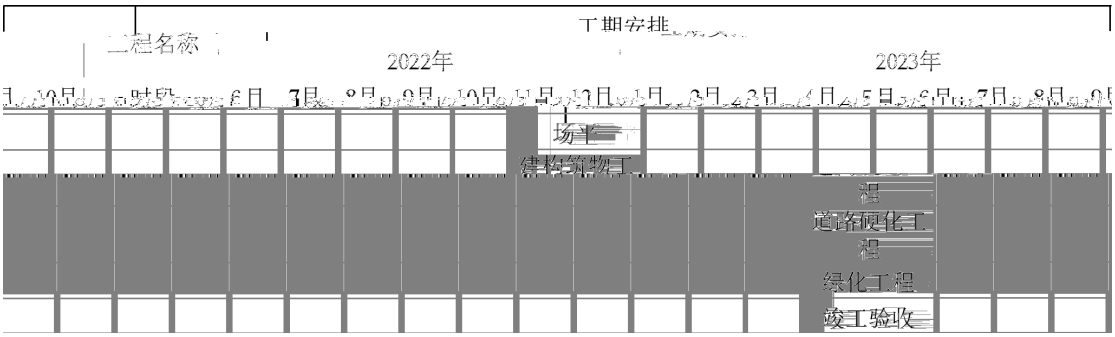
工期安排
工程名称
2022年
2023年
场平
建构筑物工程
道路硬化工程
绿化工程
竣工验收

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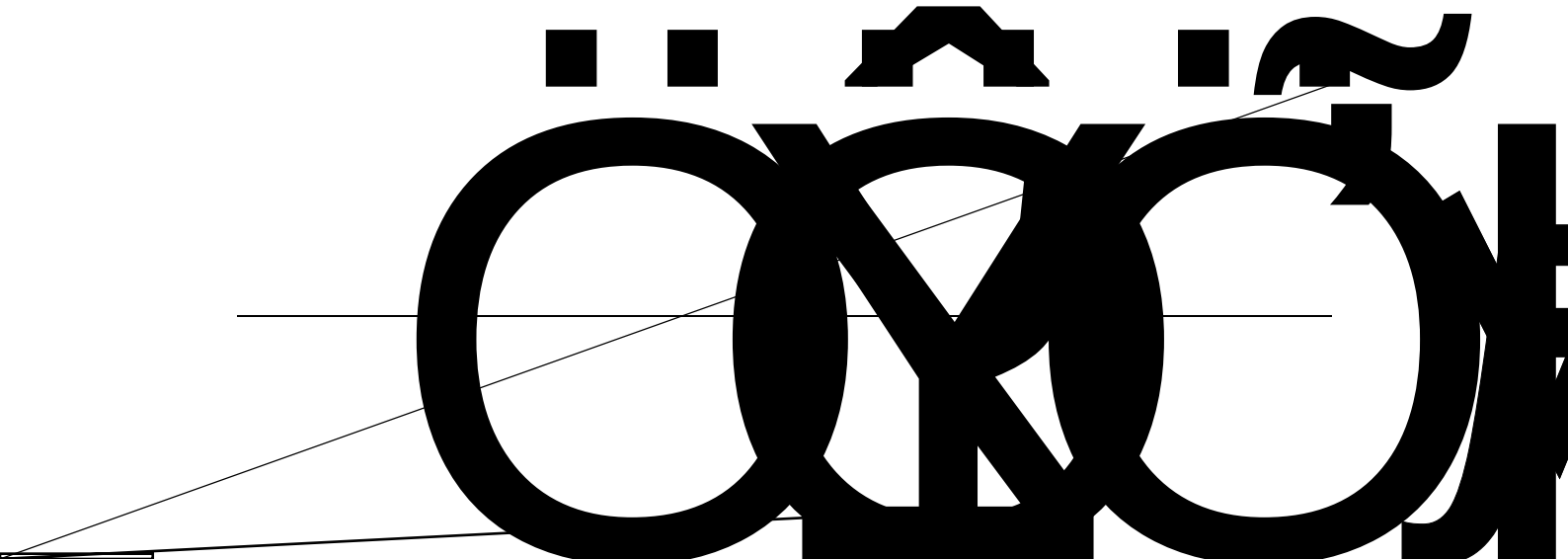

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$$M_{yz} = RKL_y S_y BETA$$

M_{yd} $RK_{yd}L_yS_yBETA$

K_{yd} NK

$$R = 0.067\rho_d{}^{1.627}$$

$$L_y \quad (\quad / 20)^m \qquad _x \cos$$

$$S_y \quad 1.5 \quad \frac{17}{1 \quad e^{(2.3 \quad 6.1\sin \quad)}}$$

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$$\frac{\left(\frac{x}{x^{2}+1}\right)^{\prime}}{\left(\frac{x}{x^{2}+1}\right)}$$

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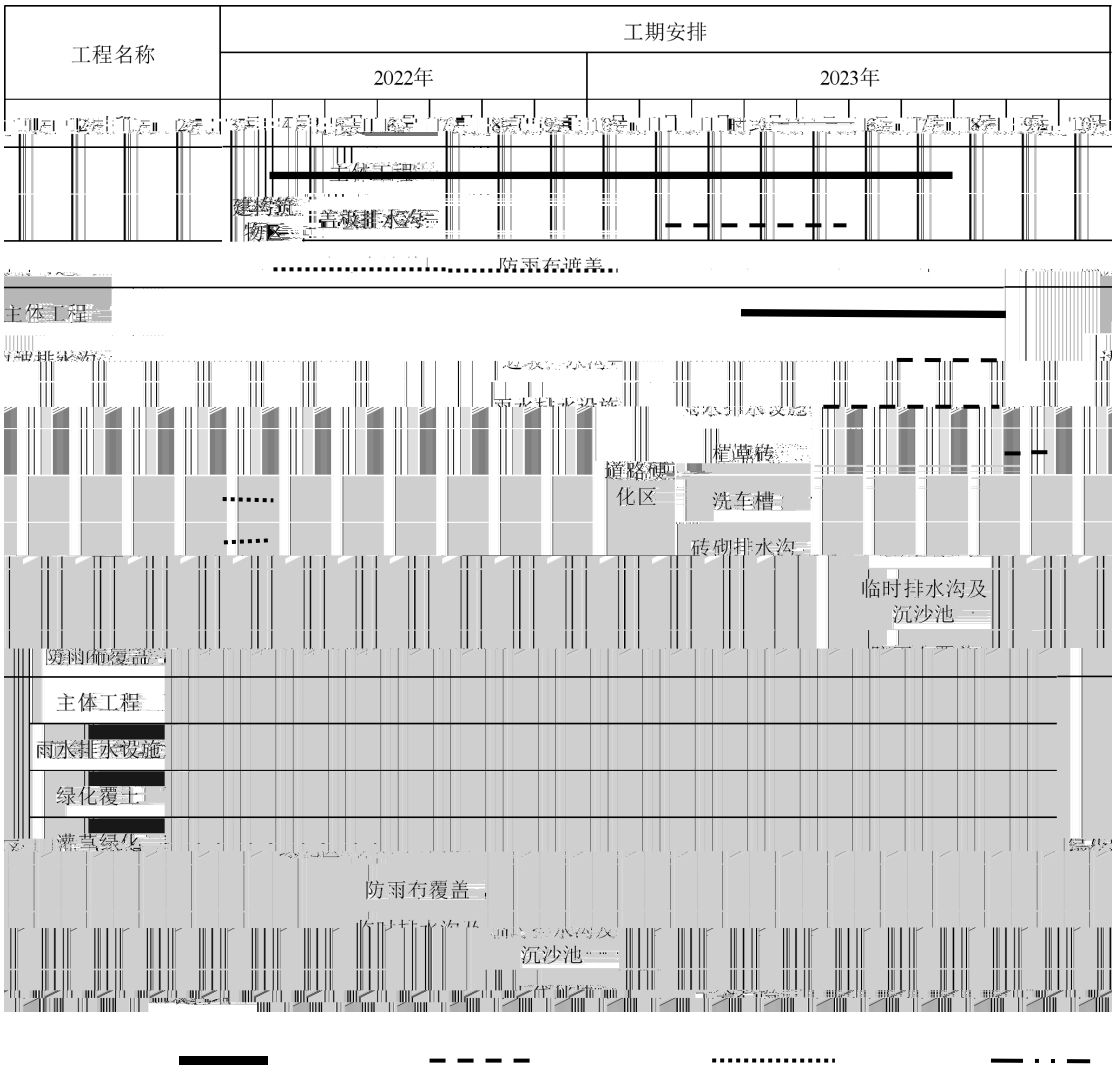
工程名称
工期安排
2022年
2023年
主体工程
建筑物区
表层排水沟
防雨布遮盖
主体工程
雨水排水设施
道路硬化区
植草砖
洗车槽
砖砌排水沟
临时排水沟及沉沙池
防雨布覆盖
主体工程
雨水排水设施
绿化覆土
撒草绿化
防雨布覆盖
临时排水沟及沉沙池

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