

< Grade Intersection VR simulation >

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UC - win / Road Cost Estimation - Breakdown

Summary of work

This is normal grade intersection data. Road extension is 700m. Building models registered in DB are arranged in wayside. Pedestrian bridges and sidewalks on the road, street lights and trees on planting zone are arranged. Traffic flow and intersection driving route are set.

Estimated distance	Par section	Correction Coefficient	Quantity	Estimated distance
The total extended distance (km)		1.0	0.200	0.200
	sectional change	1.5	0.400	0.600
	Crossing	2.0	0.100	0.200
	I·JCT	1.7	0.000	0.000
	Tunnel part	1.0	0.000	0.000
	Bridge part	1.5	0.000	0.000
	General section	1.3	0.000	0.000
	Others	0.5	0.000	0.000
A	Subtotal(A) Estimated extension distance	1.00	0.700	1.000

Item classification	Item Breakdown	Correction Coefficient	Standard work unit	Man-day input	Estimated Man-Day
Geographical feature (Man day)	Standard 50m mesh use	1.0	(0.15-0.4)	0.150	0.150
	Par geographical feature edit	1.0	(0.1-1.5)	0.000	0.000
	Space base use	1.0	0.2	0.000	0.000
	Aerial photograph use	1.0	(0.2-0.3)	0.200	0.200
	DXF conversion	0.5	(1.0-3.0)	0.000	0.000
	XML	1.0	(1.0-2.0)	0.000	0.000
	Subtotal	0.4			
Alignment definition (Man day)	P calculation work	1.0	0.3	0.300	0.300
	P input	1.0	0.15	0.150	0.150
	VC input	1.0	0.2	0.200	0.200
	Classification Setup	1.0	0.2	0.200	0.200
	Subtotal	0.9			
A cross-sectional definition (Man day)	Cross-sectional definition	1.0	0.8	0.800	0.800
	Cross-sectional texture setup	1.0	0.3	0.300	0.300
	Subtotal	1.1			
3D Model・Texture (Man day)	Accuracy-Draft	1.0	1.0	0.000	0.000
	Accuracy-Average	1.0	2.0	2.000	2.000
	Accuracy-High Precision	1.0	3.0	0.000	0.000
	Accuracy-Excellent Precision	1.0	(3.0-5.0)	0.000	0.000
	Subtotal	2.0			
B	Subtotal(B) The work in Man-day per km				4.300

Optional Item Classification	Item Breakdown	Correction Coefficient	Standard work unit	Man-day input	Estimated Man-Day
3DModel・Texture	3DModel	70 Elements	1.0	1.500	1.500
	MD3Model	1Body	1.0	0.000	0.000
	3DTrees	2 Kinds	0.8	0.000	0.000
	(Man day) Texture	5 Textures	0.5	0.400	0.400
	Subtotal	1.9			
Simulation various setup, adjustment	Traffic setup	Ten roads	0.5	0.100	0.100
	Signal control setup	One crossing	0.5	0.500	0.500
	(Man day) A model of operation and a	WAY-P setup	1.2	0.000	0.000
	Flight path setup	20PT	0.3	0.300	0.300
	Default/Before/After setup	BFR/AFT	0.5	0.000	0.000
	Lake setup	50PT	0.5	0.000	0.000
	Stream setup	10 Sections	0.5	0.000	0.000
	Script setup		1.0	0.000	0.000
	Data adjustment		1.0	1.500	1.500
	Subtotal	2.4			
Output	Screen output	A41 sheet	0.07	0.000	0.000
		(Man day) A31 sheet	0.1	0.000	0.000
	AVI output (1 minute)	Rough	1.0	0.000	0.000
		Normal	2.0	0.000	0.000
		Excellent	4.0	0.000	0.000
	Sound	Sound Setup	別途見積	0.000	0.000
		Audio input	別途見積	0.000	0.000
		BGM	別途見積	0.000	0.000
		Guide	別途見積	0.000	0.000
	AVI composition	Normal	別途見積	0.000	0.000
		Excellent	別途見積	0.000	0.000
	Perspective view creation	Rough	別途見積	0.000	0.000
		Normal	別途見積	0.000	0.000
Excellent		別途見積	0.000	0.000	
	Subtotal	0.0			
C	Subtotal(C) Option work classification				4.300

Engineer's standardized work breakdown list				
Man day unit price of an Engineer	EngineerA	10%	3,830	38,300
	EngineerB	30%	9,150	30,500
	EngineerC	40%	10,400	26,000
	Engineer	20%	4,420	22,100
D	Man day unit price(D)	27,740円		27,800

Direct personnel expenses				
E	Sum total E = (AxB+C)xD			¥239,080

Administrative expenses	20% of direct personnel expenses	20%		
F	Administrative expenses(F)			¥47,816

Cost				
	Technical cost(Field survey expense etc.)			
	Express charges(25% Premium overtime work etc.)			
	Software & hardware purchase expenses			
	Satellite photography expenses			¥64,000
	Apparatus rental and transportation			
	Transportation-expenses cost price			
	Work management expenses			
	Others		discount	¥-896
G	Subtotal of costs (G)			¥63,104

Summation	Estimated Grand Total(E+ F+ G)			¥350,000
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This excludes the cost of any local taxes that may be levied upon the project.