

JOB SITE ANALYSIS

PROJECT		SHEET NO.	
LOCATION		BID DATE	
ARCHITECT		ENGINEER	OWNER
ARCHITECT		ENGINEER	OWNER
Access, Highway		Surface	Capacity
Rail road Siding		Freight Station	Bus Station
Airport		Motels/Hotels	Hospital
Post Office		Communications	Police
Distance & Travel Time to Site		Dock Facilities	
Water Source		Amount Available	Quality
Distance from Site		Pipe/Pump required	Tanks Required ?
Owner		Price(MG)	Treatment Necessary ?
Natural Water Availability		Amount	
Power Availability		Location	Transformer
Distance		Amount Available	
Voltage	Phase	Cycle	KWH or HP Rate
Temporary Roads		Length & Widths	
Bridges/ Culverts		Number & Size	
Drainage Problems			

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Clearing Problems			
Grading Problems			
Fill Availability		Distance	
Mobilization Time		Cost	
Camps or Housing		Size of Work Force	
Sewage Treatment			
Material Storage Area		Office & Shed Area	
Labor Source		Union Affiliation	
Common Labor Supply		Skilled Labor Supply	
Local Wages Rates		Fringe Benefits	
Travel time		Per Diem	
Taxes, Sales		Facilities	Equipment
Hauling		Transportation	Property
Other			
Material Availability: Aggregates		Cement	

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		OWNER

Ready Mix Concrete	
Reinforcing Steel	Structural Steel
Brick & Block	Lumber & Plywood
Building Supplies	Equipment Repair & Parts

Demolition : Type	Number	
Size	Equip. Required	
Dump Site	Distance	Dump fees
Permits		

Clearing : Area	Timber	Diameter	Species
Brush Area	Burn on Site	Disposal Area	
Saleable Timber	Useable Timber	Haul	
Equipment Required			

Weather : Mean Temperatures	
Highs	Lows
Working Season Duration	Bad Weather Allowance

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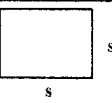
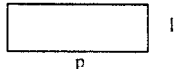
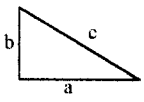
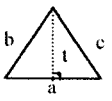
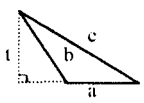

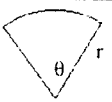
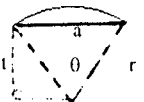



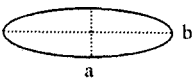
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Winter Construction		
Average Rainfall	Wet Season	Dry Season
Stream or Tidge Conditions		
Haul Road Problems		
Long Range Weather		

Soils : Job Boring Adequate ?	Test Pits	
Additional Boring Needed	Location	Extent
Visible Rock		
U.S. Soil & Agriculture Agent		
Tests Required		
Ground Water		

Construction Plant Required
Alternate Method
Equipment Available

Rumus – rumus untuk benda dua dimensi

No.	Bentuk	Gambar	Luas	Keliling
1.	Bujur sangkar		s^2	$4s$
2.	Persegi panjang		$p \times l$	$2(p + l)$
3.	Segi tiga		$\frac{1}{2} \times a \times b$	$a + b + c$
			$\frac{1}{2} \times a \times t$	$a + b + c$
			$\frac{1}{2} \times a \times t$	$a + b + c$
4.	Lingkaran		πr^2	$2\pi r$
5.	Juring lingkaran		$\frac{\theta}{360} \pi r^2$	$2r \left(\frac{\pi \theta}{360} + 1 \right)$
6.	Busur lingkaran		$\left(\frac{\theta}{360} \pi r^2 \right) - \left(\frac{1}{2} a t \right)$	$\left(\frac{\theta}{360} 2\pi r \right) + a$
7.	Jajaran genjang		$(a + b) \frac{1}{2} a t$	$a + b + c + d$
8.	Segi enam beraturan		$\frac{3}{2} \sqrt{3} a^2$	$6a$
9.	Segi delapan beraturan		$4 \times 8 \times a^2$	$8a$
10.	Elips		$\frac{\pi}{4} ab$	