

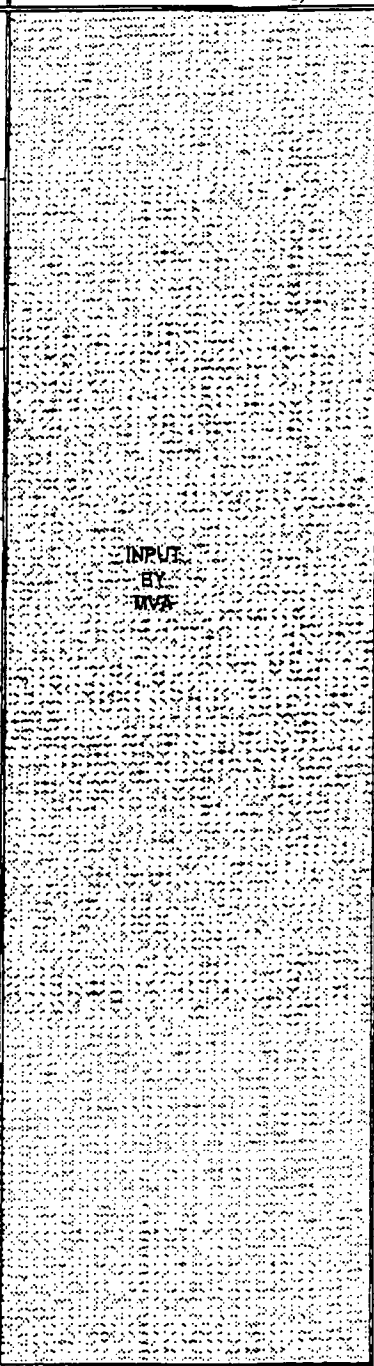
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Agreement No. CE 73/98
Investigation Assignment for Widening of Tolo Highway/Fanling Highway between Island House Interchange and Fanling (Traffic Impact Analysis) - Estimation of Maximum Construction Traffic Flows

Section Between Island House and Tat Wan Road
(From Ch 200 - Ch 1800) : From June 12 2002 to Nov 11 2005, 178.8 weeks = 1071.6 days
Assuming 50% of cut is re-usable, i.e. 50% more earth will be imported for fill purpose

File: H:\Projects\500\1010\1011.xls
Date: 29 July 1999

Operation	Duration Weeks Days	Average Vehicles/ day	Working Hours/ day	Average Veh/Hour	PCU Factor	Peak Hr Factor	Peak PCU One Way
General		6.5	9	0.72			
Spoil		1.43	9	0.18			
Concrete	97.2 weeks						
Street	583.2 days	0.032	9	0.00			
Misc/Plant		40	9	4.44			
Labour		50	9	5.58			
Construct new Banyan Bridge							
Spoil		5	9	0.58			
Concrete	42 weeks	5	9	0.58			
Street	252 days	2	9	0.22			
Misc/Plant		20	9	2.22			
Labour		20	9	2.22			
Construct new Playground Bridge							
Spoil		5	9	0.58			
Concrete	42 weeks	5	9	0.58			
Street	252 days	2	9	0.22			
Misc/Plant		20	9	2.22			
Labour		20	9	2.22			
Demolish and rebuild Banyan Bridge West							
Spoil		2.8	9	0.31			
Concrete	70 weeks	2.3	9	0.28			
Street	420 days	2	9	0.22			
Misc/Plant		30	9	3.33			
Labour		35	9	3.89			
Widening Lam Kam Railway Bridge							
Spoil		1	9	0.11			
Concrete	58 weeks	2	9	0.22			
Street	336 days	1	9	0.11			
Misc/Plant		15	9	1.67			
Labour		20	9	2.22			
Construct new Bridge No. 11							
Spoil		0.8	9	0.07			
Concrete	84 weeks	2	9	0.22			
Street	504 days	0.03	9	0.00			
Misc/Plant		20	9	2.22			
Labour		20	9	2.22			
Construct new bridge No. 10							
Spoil		0.6	9	0.07			
Concrete	105 weeks	2	9	0.22			
Street	630 days	0.03	9	0.00			
Misc/Plant		20	9	2.22			
Labour		20	9	2.22			
Construct Noise Barriers							
Spoil		8	9	0.87			
Concrete	70 weeks	17	9	1.89			
Street	420 days	0.01	9	0.00			
Misc/Plant		40	9	4.44			
Labour		50	9	5.58			



Summary	Duration Weeks Days	Average Vehicles/ day	Working Hours/ day	Average Veh/Hour
Spoil		28	9	3
Concrete	178.8 weeks	37	9	4
Steel	1071.6 days	7	9	1
Misc/Plant		205	9	23
Labour		236	9	26

TO: MARLENE HO

Total Pages = 5

Amendments are kept together

To [Signature]

Thank You: SAM YAN

Agreement No. CE 73/98

Investigation Assignment for Widening of Tolo Highway/Fanling

Highway between Island House Interchange and Fanling

(Traffic Impact Analysis) - Estimation of Maximum Construction Traffic Flows

Section between Tat Wan Road and Tai Po Wo Road

(From Ch 1300 - Ch 4000) : From June 12 2002 to Nov 04 2005, 177.6 weeks = 1065.6 days

Assuming 50% of cut is re-useable, i.e. 50% more earth will be imported for fill purpose

File: H:\Projects\500\ToloFan1.xls

Date: 29 July 1999

Operation	Duration Weeks Days	Average Vehicles/ day	Working Hours/ day	Average Veh/Hour	PCU Factor	Peak Hr Factor	Peak PCU One Way
General							
Spoil		3.1	9	1.01			
Concrete	122 weeks	0.6	9	0.07			
Steel	732 days	0.0007	9	0.00			
Misc/Plant		40	9	4.44			
Labour		50	9	5.56			
Construct new Bridge No.12							
Spoil		0.28	9	0.03			
Concrete	91 weeks	2.47	9	0.27			
Steel	546 days	0.003	9	0.00			
Misc/Plant		30	9	3.33			
Labour		35	9	3.89			
Construct new bridge to link Tai Po Wo Road							
Spoil		2.2	9	0.24			
Concrete	91 weeks	1.9	9	0.21			
Steel	546 days	0.001	9	0.00			
Misc/Plant		30	9	3.33			
Labour		35	9	3.89			
Construct new Bridge No. 13							
Spoil		0.28	9	0.03			
Concrete	63 weeks	2.12	9	0.24			
Steel	378 days	0.001	9	0.00			
Misc/Plant		25	9	2.78			
Labour		30	9	3.33			
Construct new bridge No. 15							
Spoil		1	9	0.11			
Concrete	91 weeks	4.2	9	0.47			
Steel	546 days	0.001	9	0.00			
Misc/Plant		30	9	3.33			
Labour		35	9	3.89			
Construct noise barriers							
Spoil		1.6	9	0.18			
Concrete	49 weeks	15	9	1.67			
Steel	294 days	0.001	9	0.00			
Misc/Plant		40	9	4.44			
Labour		50	9	5.56			

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Summary	Duration Weeks Days	Average Vehicles/ day	Working Hours/ day	Average Veh/Hour
Spoil		14	9	2
Concrete	177.6 weeks	26	9	3
Steel	1065.6 days	0	9	0
Misc/Plant		195	9	22
Labour		235	9	26

Agreement No. CE 73/98

Investigation Assignment for Widening of Tolo Highway/Fanling
Highway between Island House Interchange and Fanling
(Traffic Impact Analysis) - Estimation of Maximum Construction Traffic Flows

Section between Tai Po Tai Wo Road and Hong Lok Yuen Road

(From Ch 4000 - Ch 5700) : From June 12 2002 to Nov 25 2005, 180.6 weeks = 1083.6 days
Assuming 50% of cut ls re-useable, i.e. 50% more earth will be imported for fill purpose

File: H/Projects/500/tolofan1.xls

Date: 29 July 1999

Operation	Duration Weeks Days	Average Vehicles/ day	Working Hours/ day	Average Veh/Hour	PCU Factor	Peak Hr Factor	Peak PCU One Way
General							
Spoil		11.4	9	1.27			
Concrete	44 weeks	1.4	9	0.16			
Steel	254 days	0.001	9	0.00			
Misc/Plant		40	9	4.44			
Labour		50	9	5.56			
Construct portal to protect existing water tunnel at Ch4900							
Spoil		3.6	9	0.40			
Concrete	35 weeks	2.1	9	0.23			
Steel	210 days	0.002	9	0.00			
Misc/Plant		40	9	4.44			
Labour		50	9	5.56			
Construct new Lam Kam Flyover							
Spoil		1.3	9	0.14			
Concrete	140 weeks	2.5	9	0.28			
Steel	840 days	0.3	9	0.03			
Misc/Plant		50	9	5.56			
Labour		60	9	6.67			
Modification of pipe bridge							
Spoil		0.4	9	0.04			
Concrete	70 weeks	1.3	9	0.14			
Steel	420 days	0.001	9	0.00			
Misc/Plant		30	9	3.33			
Labour		35	9	3.89			
Construct Noise Barriers							
Spoil		4.3	9	0.48			
Concrete	35 weeks	24	9	2.67			
Steel	210 days	0.001	9	0.00			
Misc/Plant		40	9	4.44			
Labour		50	9	5.56			

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Summary	Duration Weeks Days	Average Vehicles/ day	Working Hours/ day	Average Veh/Hour
Spoil		21	9	2
Concrete	180.6 weeks	31	9	3
Steel	1083.6 days	0	9	0
Misc/Plant		200	9	22
Labour		245	9	27

Agreement No. CE 73/98

Investigation Assignment for Widening of Tolo Highway/Fanling

Highway between Island House Interchange and Fanling

(Traffic Impact Analysis) - Estimation of Maximum Construction Traffic Flows

Section between Hong Lok Yuen Road and Pak Wo Road

(From Ch 5700 - Ch 8600) : From Feb 12 2003 to Nov 22 2005, 145 weeks = 870 days

Assuming 50% of cut is re-useable, i.e. 50% more earth will be imported for fill purpose

File: H:\Projects\500\tolo\fan1.xls

Date: 29 July 1999

Operation	Duration Weeks Days	Average Vehicles/ day	Working Hours/ day	Average Veh/Hour	PCU Factor	Peak Hr Factor	Peak PCU One Way
General							
Spoil		2	9	0.22			
Concrete	93.3 weeks	1.45	9	0.16			
Steel	653 days	0.01	9	0.00			
Misc/Plant		40	9	4.44			
Labour		50	9	5.56			
Demolish and rebuild Kiu Tau Bridge							
Spoil		0.3	9	0.03			
Concrete	84 weeks	1.38	9	0.15			
Steel	504 days	0.05	9	0.01			
Misc/Plant		30	9	3.33			
Labour		35	9	3.89			
Construct Tai Hang Footbridge Extension							
Spoil		0.87	9	0.10			
Concrete	42 weeks	1.97	9	0.22			
Steel	252 days	0.002	9	0.00			
Misc/Plant		20	9	2.22			
Labour		20	9	2.22			
Construct Tai Wo Footbridge Extension							
Spoil		0.41	9	0.05			
Concrete	49 weeks	1.3	9	0.14			
Steel	294 days	0.02	9	0.00			
Misc/Plant		20	9	2.22			
Labour		20	9	2.22			
Construct Nam Wah Po Footbridge & Extension							
Spoil		0.47	9	0.05			
Concrete	49 weeks	1.79	9	0.20			
Steel	294 days	0.0025	9	0.00			
Misc/Plant		20	9	2.22			
Labour		20	9	2.22			
Construct Kiu Tau Footbridge							
Spoil		0.31	9	0.03			
Concrete	49 weeks	1.2	9	0.13			
Steel	294 days	0.005	9	0.00			
Misc/Plant		20	9	2.22			
Labour		20	9	2.22			
Construct Ho Ka Yuen Footbridge							
Spoil		0.4	9	0.04			
Concrete	49 weeks	1.6	9	0.18			
Steel	294 days	0.007	9	0.00			
Misc/Plant		20	9	2.22			
Labour		20	9	2.22			

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Investigation Assignment for Widening of Tolo Highway/Fanling Highway between Island House Interchange and Fanling

(Traffic Impact Analysis) - Estimation of Maximum Construction Traffic Flows

Section between Hong Lok Yuen Road and Pak Wo Road

(From Ch 5700 - Ch 8600) : From Feb 12 2003 to Nov 22 2005, 145 weeks = 870 days

Assuming 50% of cut is re-useable, i.e. 50% more earth will be imported for fill purpose

File: H:\Project\500\tolo\fan1.xls

Date: 29 July 1999

Operation	Duration Weeks Days	Average Vehicles/ day	Working Hours/ day	Average Veh/Hour	PCU Factor	Peak Hr Factor	Peak PCU One Way
Demolish existing footbridge							
Spoil		2.71	9	0.30			
Concrete	28 weeks	0	9	0.00			
Steel	168 days	0	9	0.00			
Misc/Plant		0	9	0.00			
Labour		0	9	0.00			
Construct Noise Barriers							
Spoil		14	9	1.56			
Concrete	56 weeks	19.7	9	2.19			
Steel	338 days	0.021	9	0.00			
Misc/Plant		60	9	6.67			
Labour		70	9	7.78			

Summary	Duration Weeks Days	Average Vehicles/ day	Working Hours/ day	Average Veh/Hour
Spoil		21	9	2
Concrete	145 weeks	30	9	3
Steel	870 days	0	9	0
Misc/Plant		230	9	26
Labour		255	9	28