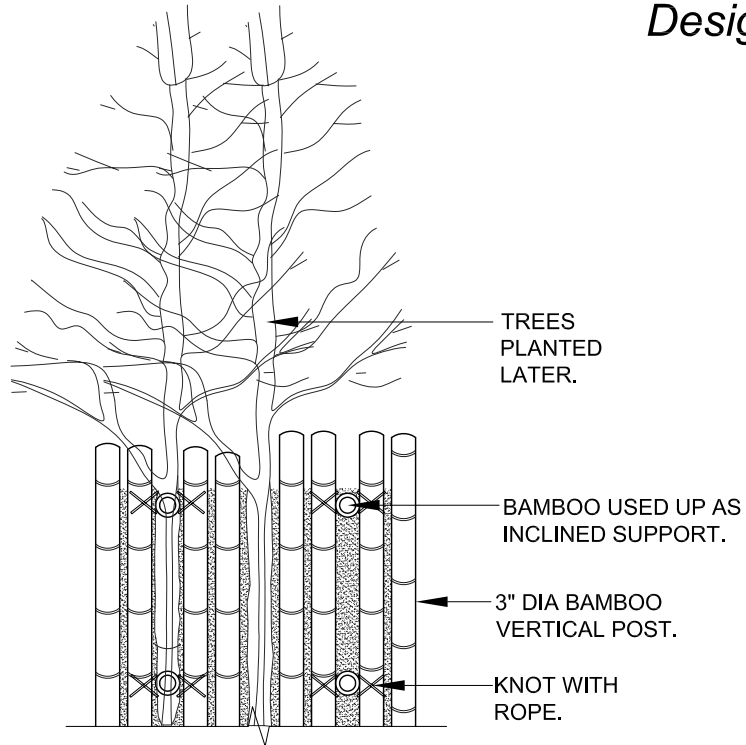


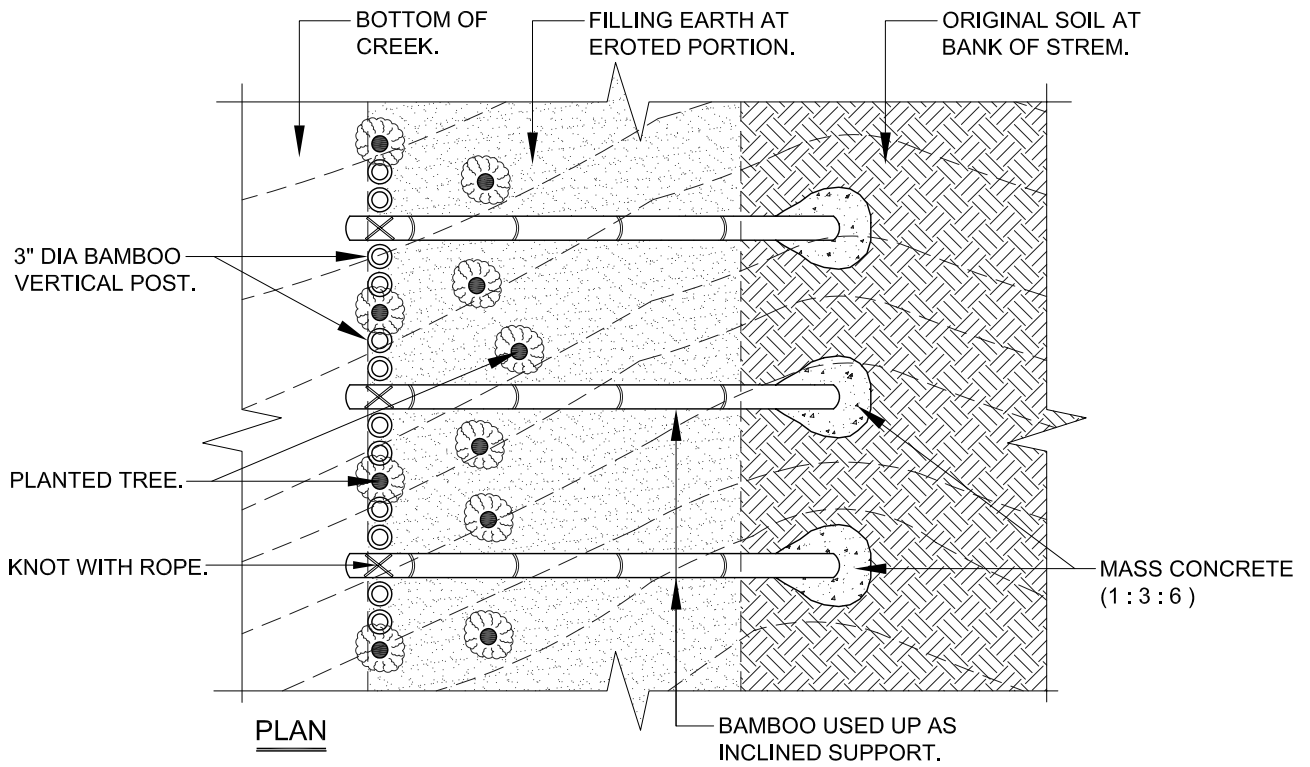
3

SIMPLE SOIL EROSION CONTROL MEASURES FOR CREEKS/STREAMS BANKS ACROSS BRIDGES

*Design Drawings.*



ELEVATION



PLAN



NISHORGO SUPPORT PROJECT  
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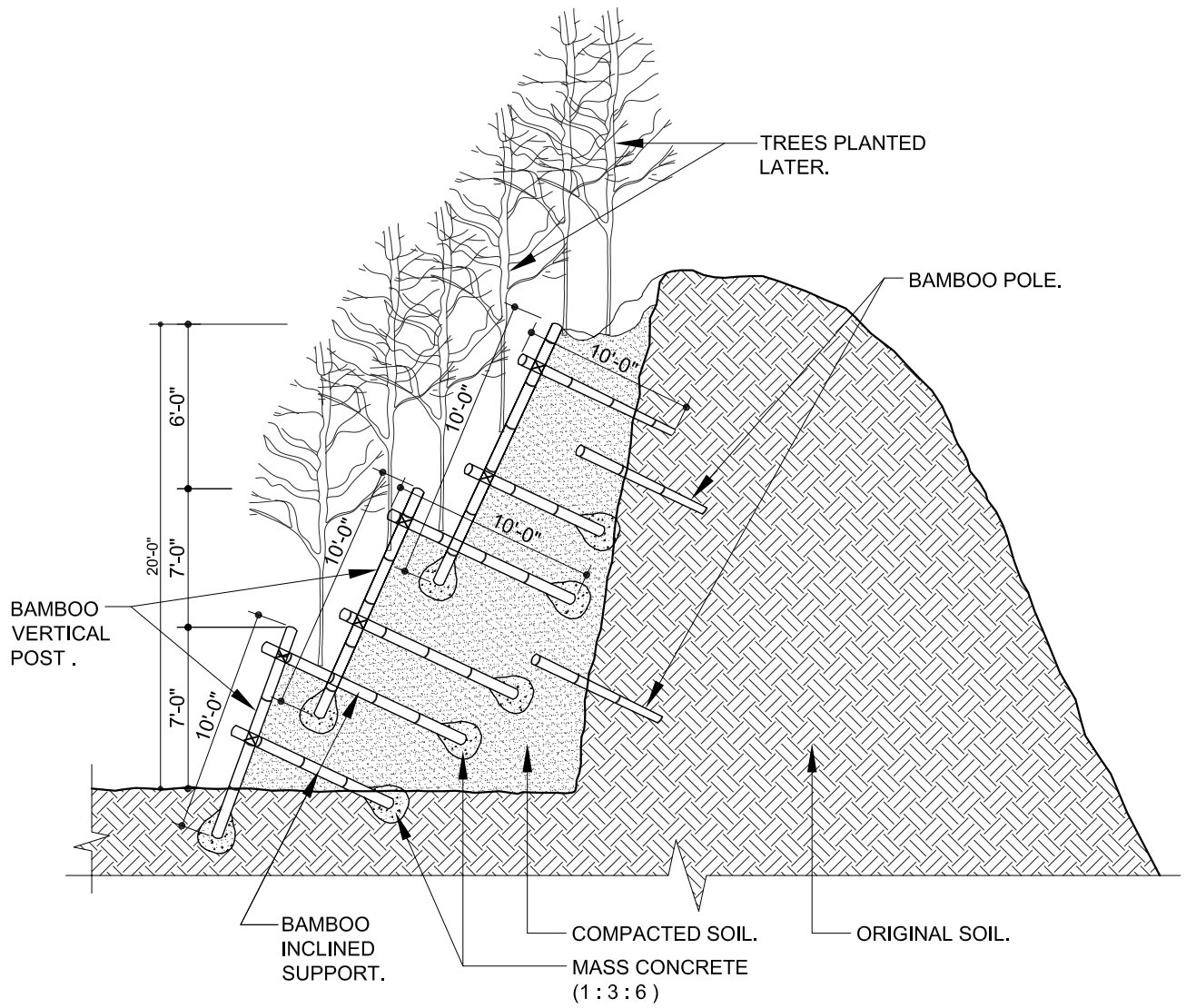
Prepared by :  
VITTI SHAPATI BRINDO LTD.  
2- SHANGSHAD AVENUE  
DHAKA -1215.  
PHONE : 8143471  
FAX : 880 2 8143470  
E-mail : vittibd@gmail.com

SCALE : NOT TO SCALE  
DRAWN : SHAMEEM  
DATE : MARCH, 2007.  
SHEET NO : 3 a

3

SIMPLE SOIL EROSION CONTROL MEASURES FOR CREEKS/STREAMS BANKS ACROSS BRIDGES

*Design Drawings.*



SECTION



NISHORGO SUPPORT PROJECT  
&  
DEPT. OF FOREST GOB.

Prepared by :  
VITTI STHAPATI BRINDO LTD.  
2- SHANGSHAD AVENUE  
DHAKA -1215.  
PHONE : 8143471  
FAX : 880 2 8143470  
E-mail : vittibd@gmail.com

SCALE : NOT TO SCALE  
DRAWN : SHAMEEM  
DATE : MARCH, 2007.  
SHEET NO : 3 b

03

## SIMPLE SOIL EROSION CONTROL MEASURES FOR CREEKS/ STREAMS BANK

### Technical Data and Specifications

#### Components Required for 10'-0" long Erosion (20'-0" Height) :

Description	Characteristics	Unit	Dimensions		
			Height	Length	Width
Bamboo for inclined support	Bamboo (well matured)	12 Nos.	10'-0"		3" dia
Vertical Bamboo Post	Bamboo (well matured)	24 Nos.	10'-0"		3" dia
Tree Plantation	Hard wood tree	12 Nos.	8'-0"		2" dia
Mass concrete under bamboo	Base for inclined & vertical bamboo post	36 Nos.	1'-0"	1'-0"	1'-0"
Earth filling in erosion portion	Top surface of eroded area	1 No.	6'-0"	10'-0"	3'-0"

#### Summary of Materials :

Fit out Parts	Type of Materials	Nos.	Volume		Weight	Long
			M <sup>3</sup>	(p.m.p.)	(Kg)	(mm)
Cement	Portland Cement				220	
Aggregate	Stone Chips (1/2" to 3/4")		1.00			
Sand	Course sand (F.M. 2.5)		0.50			
Bamboo	3" dia matured bamboo	36 Nos.				10'-0" each
Tree for plantation	2" dia Green hard wood tree	12 Nos.				8'-0" each
Filling earth	Filling earth in/c. grass top	1 Job				
Rope	Jute rope 10mm dia				10 kg	
Equipment	Hand Compactor, Spade, string etc.	1 Job				

#### Specifications :

- Concrete should be poured in proportion 1:3:6 (Cement : Sand : Brick chips)
- For concrete (1:3:6) 20mm down graded brick chips should be used.
- Sand and chips should be washed with pure water properly before used.
- Water cement ratio should be properly maintained.
- Filling earth compaction should be done layer by layer – say after every 18" depth.
- Trees should be properly planted for its easy growth. (Some fertilizer may use for)

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*Design Guideline :*  
SIMPLE SOIL EROSION CONTROL MEASURES FOR CREEKS

*Prepared by*  
**VITTI Sthapati Brindo Ltd.**