



LEGEND

- ZONES BOUNDARY
- 1:10 YEAR FLOOD LINE
- 1:100 YEAR FLOOD LINE

APPROVALS				
SEQ.	DEPARTMENT	SECTION	AUTHORIZED SIGNATURE	DATE
1		LAND USE MANAGEMENT		
2	INTEGRATED DEVELOPMENT PLANNING	ENVIRONMENTAL PLANNING		
3		BUILDING CONTROL		
4		STREETS & STORMWATER		
5	CITY ENGINEER	WATER & WASTEWATER		
6		SUPPORTIVE SERVICES		
7		BUILDING & STRUCTURES		
8	CITY ELECTRICAL ENGINEER	PLANNING AND DEVELOPMENT		
9		TRAFFIC SIGNS & MARKINGS		
10	COMMUNITY SERVICES & HEALTH	FIRE FIGHTING REQUIREMENTS		
11		ENVIRONMENT & RESOURCES		
12	CITY SECRETARY	ESTATES		
13	SPORT, PARKS & RECREATION	DEVELOPMENT OF PARKS		
14	TELECOM	TELECOM RETICULATION		
15	WARD COUNCILLOR			
APPROVED OVERALL PROJECT LEADER				
DATE: _____				
AUTHORIZED BY: _____				
IN TERMS OF: _____				
DATE: _____				
APPROVED TO PROCEED WITH CONSTRUCTION				
REVISION NUMBER: 13			UPDATE DATE: _____	

REVISIONS

No.	Date	By	Description

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AREA	GEOTECHNICAL CLASS	ESTIMATED SOIL MOVEMENT	SOIL PROFILE	DEVELOPMENT POTENTIAL	CONSTRUCTION TYPE	FOUNDATION DESIGN	ASSOCIATED PROBLEMS
I	S/H	Less than 10mm compressive settlement and less than 7.5mm free heave	Thin surface horizon of colluvial sand overlying residual shale. Ferruginization of soil is common.	Good	Normal construction	Normal strip footings. Slab-on-the-ground foundation.	Difficult excavation through ferricrete
II	S1/H	10mm to 20mm compressive settlement and less than 7.5mm free heave	Intermediate surface horizon of colluvial sand overlying residual shale and quartzite.	Intermediate	Modified normal construction	Reinforced strip foundations.	None
III	S2/H	More than 20mm compressive settlement and less than 7.5mm free heave	Intermediate surface horizon of colluvial sand overlying residual shale and quartzite.	Intermediate	Modified normal construction	Reinforced concrete raft. Reinforced strip foundations.	None
IV	R	None	Outcrops of sandy shale to shaly sandstone.	Intermediate	Modified normal construction	Professionally designed foundations. Reinforced strip foundation to pad footings and stub columns.	Conditions of hard rock excavation
V	S/R	Less than 10mm compressive settlement	Thin surface horizon of colluvial residual sand overlying bedrock of shale or sandstone	Good to Intermediate	Normal construction	Normal strip footings. Slab-on-the-ground foundation.	Conditions of hard rock excavation
VI	S1/R	10mm to 20mm compressive settlement	Intermediate surface horizon of colluvial residual sand overlying bedrock of shale or sandstone	Intermediate	Modified normal construction	Reinforced strip foundations.	Conditions of hard rock excavation
VII	H2	15mm to 30mm free heave	Thick horizon of alluvial deposits	Intermediate	Modified normal construction	Reinforced concrete raft. Reinforced strip foundations.	None

Designed:	Signature:
Drawn: TM	Signature:
Checked:	Signature:
PROJECT TITLE	
REDSTONE PHASE 1-3	
DRAWING TITLE	
SOIL ZONING	
APPROVED	
P. ENGINEER	Date
PROJECT MANAGER	Date
DATE: JULY 2007	SCALE: 1:500
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