

VENTER HUMAN + STRYDOM ARCHITECTS (PTY) LTD

Work: + 27 (0) 11 646 6228 Fax: + 27 (0) 11 646 6549 Email: info@vhsarchitects.co.za

11 Greenway Road Greenside Johannesburg 2193

www.vhpluss.co.za

16 February 2012

Proposal and Motivation for Infrastructure Upgrading at Phiri Primary School

Introduction:

District:

Johannesburg South

School:

Phiri primary school

School Type: Residential Area: Primary Soweto

Town / City:

Johannesburg

Municipality:

Johannesburg

The intention of this report is to review the school's current state and determine the need for upgrading, especially with relevance to ablutions.

Review of School and Current Structures:

General:

- in 2012 there are 116 pupils in total
- Off these 70 are girls and 46 boys. There are 0 grade R students
- There is an overprovision of ablution facilities on site. The middle ablution building, as indicated on the site plan is in such a bad state, that we recommend demolition of the structure, and the revamp of the other newer existing buildings on site.
- Also, the building recommended for demolition is not deep enough for WC cubicles to be constructed and to leave enough space for door opening as well as wash hand basins. All fittings in these buildings are also inadequate.

Existing Buildings and ablution facilities (refer to attached photos) – excluding building to be demolished

- The newer ablution blocks are reasonable from a structural point of view.
- There are a few missing doors and toilet seats that need replacing.
- Ceilings needs repair.
- New WHB's are recommended, as the current are in a very bad condition.
- Floor tiling in the newer buildings might be repairable (terrazzo tiling), but sufficient allowance should be made since there are quite a number broken.
- New buildings need general repainting and or retailing, depending on department specification.
- No provision has been made for paraplegic facilities.
- There might be a possibility that the existing can be reworked to accommodate paraplegic ablutions, given that the correct access can be provided.

Directors: Richardt Venter Martle Human Cornus Strydom



Proposed new building and infrastructure

No new structures to be built.



Marcia

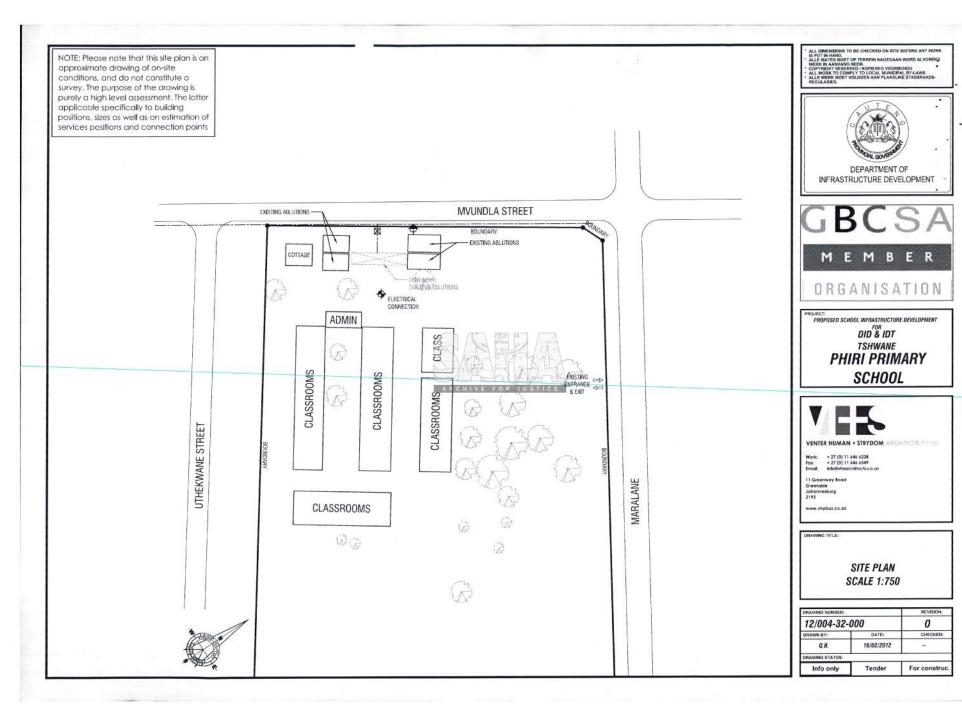
Phiri

Phiri Primary School

Image © 2012/9 gitalGlobe

16/2012 AltiGIS (Rty)1 to

Google earth



<u>Primary School Preliminary Physical Assessment Report and Checklist</u>

To be faxed to Crane QS on completion to: 011-783-8252			Date: 16-Feb-12			
Architect	t: VH+S Architects	School:	Phiri Primary Schoo	d.		
riidiided	VIII D AI CINCCES		Timir Timary School	4		
			T			
Inspection:	School General:	Number of Children	116			
		Number of Bour	F0			
		Number of Boys	58			
		Number of Girls	58			
		Number of Grade "R"	No grade R's			
	(Photos to be taken)	General state of Buildings				
			recommend to be o inredible overprovi		ince there is an	
			in edible overprovi	sion on site.		
		Additional Notes	The oldest ablution	block to be	demolshed is	
			beyond repair and	not required	due to the rath	er
			small number of ch	ildren in the	school	
	Ablutions:	Currently available:	was			
	Abidions.	Currently available.	yes	x	no	
		Required No. per NBR	refe	r to detailed t	able	
		R Roll of tour	1 78			
		Sufficient for current	124 a			
		Numbers	yes	×	no	
		ARCHIVE FOR J	USTICE	ad aa Cuada	D at independent	
		Grade "R" Ablutions Appropriate?		ed, no Grade n/a	k students	
		прргориисе.		nyu		
		General state of Ablutions	Existing block	to be demols	ihed not fit for	
			human occupat			
					structurally the	
			buildings ar	re in a reason	able order.	
		SDP to be drawn up:	yes		по х	
		SDI to be didwir up.	Yes		110 X	
		Area (location) identified				
		for construction:	yes		no x	
	Ct	irrent surface of proposed				
		construction area	n/a			
		Demolition required:	yes	×	no	
		Short of the second	3-00-00			
	What stru	cture needs domolishiong		f existing abl	utions, as indica	ted
			on the site plan.			
		Notes:				
		notes.				
			W			
		and the second s				

Services:

Electricity available:	yes	x	no	
linkup/runs identified:	ves	×	no	
Nearest Electrical DB	Within 1	10m of existin	g ablutio	ons
9				
Problems?	No proble	m reported b	y headm	aster
C	199620	92.20	000000	
Sewer available:	yes	X	no	
linkup/runs identified:	yes	X	no	
Nearest Sewer		connected	1	
Problems?	Fr	equent block	ages.	
Water available:	yes	×	no	
linkup/runs identified:	yes	×	no	
Nearest Waterpoint		connected	1	
Problems?	No proble	m reported b	y headm	aster
Stomwater available:	Vas			
linkup/runs identified:	yes		no	X
Nearest Stomwater	yes	none on sit	no	x
Nearest Storriwater		none on si	le	
Problems?	flooding as there	are no storm	water cl	hannels pro-
	vided on site			namicio pro
Additional notes:	Demolition permi	it required fo	r middle	WC block
(any points of concern / cost				
implications to be noted)				
Ding Line To	One of the newer			
A S C M J V S - S A S	that there is an o	verprovision (on site a	nd that
ARCHIVE FOR J	some of the fittin	gs are out of	order.	

				Male				Fei	male	
	WC 12			U		WHB		wc		WHB
Children Grade 1-12			7		7		29		15	
	Keep	Demolish	Keep	Demolish	Keep	Demolish	Keep	Demolish	Keep	Demolish
Conditions	Х	X	X	X	X	X	X	X	X	X
Childern Grade R		0		0		0		0		0
	Keep	Demolish	Keep	Demolish	Keep	Demolish	Keep	Demolish	Keep	Demolish
Conditions										
Staff		3		0		2		1	T	1
	Keep	Demolish	Keep	Demolish	Keep	Demolish	Keep	Demolish	Keep	Demolish
Conditions	X		X		X		X		X	

	Rec	uired b	y NBR			
	Male			Female		
	WC	U	WHB	WC	WHB	
Children Grade 1-12	2	3	3	5	3.	
Children Grade R	0	0	0	0 0	O /	
Staff	1		1	4 - 1	Ves te /	

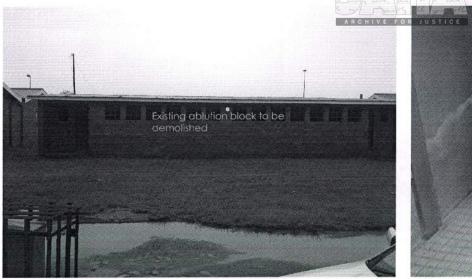
ARCHIVE FOR JUSTICE

	Exis	sting Su	rplus		
	Male			Female	
	wc	U	WHB	wc	WHB
Children Grade 1-12	10	4	4	24	12
Children Grade R	0	0	0	0	0
Staff	2	0	1	0	0

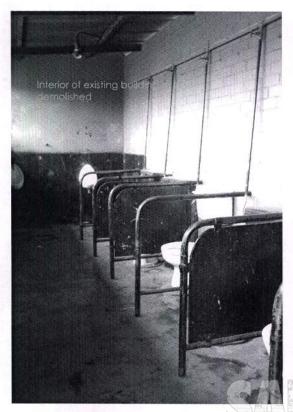
Number to be Demolished							
	Male			Female			
	WC	U	WHB	wc	WHB		
Children Grade 1-12	5	2	1	6	1		
Children Grade R	0	0	0	0	0		
Staff	1	0	1	1	1		



















FOR DEPARTMENT OF EDUCATION

SCHOOLS

SITE EVALUATION REPORT - ADDENDUM A

SCHOOL NAME	PHIRI PRIMARY SCHOOL	
REGION	SOWETO	
PROJECT NO.		

REPORT PREPARED BY

	Tool from Jan			
DATE OF EVALUATION	09-Feb-12			
PERSON RESP.	VH+S Architects (Richardt Venter)			
ADDRESS	11 Greenway Road, Greenside, 2193			
TELEPHONE NO.	011 646 6228			
FAX NUMBER	011 646 6549			
eMAIL	info@vhsarchitects.co.za			
COMPLETED	16-Feb-12			

RAPID INFRASTRUCTURE DELIVERY PROGRAMME SITE EVALUATION REPORT

DISTRICT MUNICIPALITY	Sowetp		LOCAL MUNICIPALITY	Soweto	
SCHOOL NAME	Phiri Primary School		WARD NAME	l l	WARD NO:
SCHOOL PRINCIPAL			TEL NO	011 984 4377	
DISTRICT CO-ORDINATOR			TEL NO		
PRINCIPAL AGENT			TEL NO		
NAME OF EVALUATOR			TEL NO		
ARCHITECT	VH+S Architects		TEL NO	011 646 6228	
NAME OF EVALUATOR	Richardt Venter		TEL NO		
	GEN	IERAL SCHOOL II	NFORMATION		
NO OF PUPILS 2012	116	BOYS 2012	58	GIRLS 2012	58
NO OF PUPILS 2009		BOYS 2009		GIRLS 2009	
NO OF PUPILS 2010		BOYS 2010		GIRLS 2010	
STAFF		MALE		FEMALE	
GRADE 1	2 RESULTS (HIGH SCHOOL ON	ILY)			
NO OF PUPILS 2008		NO PASSED 2008		EXEMPTIONS NO 08	4
NO OF PUPILS 2009		NO PASSED 2009	1/35	EXEMPTIONS NO 09	
E	NROLMENT PER SUBJECT	San Jan Jan Jan Jan Jan Jan Jan Jan Jan J	r / se fine		
XHOSA		A GEOGRAPHY HG	USTICE		
ENGLISH		GEOGRAPHY SG			
AFRIKAANS		TECH DRAW HG			
MATHEMATICS HG		TECH DRAW SG			
MATHEMATICS SG		WOODWORK SG			
SCIENCE HG		METALWORK SG	A		
SCIENCE SG		HOME ECO HG			
BIOLOGY HG		HOME ECO SG			
BIOLOGY SG		TYPING SG			
HISTORY HG		BUS ECONOMIC HG			
HISTORY SG		BUS ECONOMIC SG			
AGRICULTURE HG		ACCOUNT HG			
AGRICULTURE SG		ACCOUNT SG			
SOCIAL SCIENCE		ARTS & CULTURE			
EMS		LIFE ORIENTATION			

List additional subjects as required

SCHOOL TOPOGRAPHY AND LAYOUT

Please draw an A4 sketch of the site and indicate the position of existing buildings, toilets, playing fields, etc.

Please include 4 typical photographs of the terrain, including sports fields if any.

IS THE SITE LEVEL OR SLOPING?		LEVEL	reasonably yes	SLOPING	
ESTIMATED ORDER OF SLOPE:					
<2%		2% - 5%		>5%	
IS THE PRESENCE OF ROCK INDICA	TED				
IF SO, AT WHAT DEPTH?	none vissible on site				
CAN EXCAVATION TO A DEPTH OF	1,5m BE DONE BY HAND, OR	WILL MECHANICAL EQUIPMEN	NT BE REQUIRED?		
Should be possible					
GIVEN THE EXTENT OF THE NEW BU	JILDINGS AND THE APPAREN	IT FOUNDING CONDITIONS, RE	ECOMMEND IF A FORMAL SOIL	INVESTIGATION	
BE CARRIED OUT (GEOTECHNICAL	REPORT)?	YES		NO	×
NB - Dolomitic conditions expected					
IF SO THIS MUST BE ARRANGED TIM	MEOUSLY SO THAT SPECIAL I	FOUNDATION DESIGNS CAN BE	E FINALISED BEFORE CALLING	TENDERS.	
INDICATE THE PROPOSED POSITION	N OF THE ADDITIONAL BUILD	NGS ON THE SKETCH. (ARCHI	тест)		
WITH WHOM WAS THIS DISCUSSED	?	Not required 4	- /- /-		
ARE THEY SATISFIED WITH THE PR	OPOSED POSITION?	YES	e home	NO	n/a
IS THERE AN EXISTING LEVEL SPOR	RTS FIELD?	YES	n/a	NO	n/a
CONDITION (LEVEL/GRASSED)		n/a	ESTIMATED SIZE		
IF NOT, IS THE SITE SUITABLE FOR	THE CREATION OF LEVEL PI	ATFORM FOR A PLAYING FIEL	LD OF AT LEAST 120m x 75m?		
YES	n/a		NO		
IF NOT, WHAT SIZE IS FEASIBLE? E	ESTIMATED DIMENSIONS				
HOW MUCH EARTHWORKS WOULD	THIS INVOLVE?	n/a			
EXTENSIVE		FAIR		MINIMAL	
PLEASE INDICATE POSITION OF PO	SSIBLE PLAYING FIELD ON TH	HE LAYOUT SKETCH OF THE G	ROUNDS		
TREES TO BE REMOVED		TYPE OF TREE	GIRTH	TREE OR STUMP?	QUANTITY
GROUP 1					
GROUP 2					
GROUP 3					
GROUP 4			_		
GROUP 5					

EXISTING BUILDINGS

Please include 2 photographs of typical buildings, e.g. classrooms blocks, offices, toilets, etc. Photographs of classroom blocks

should be taken from the verandah side, and photographs of the inside of a classroom should also be included.

Photographs of toilets should give an indication of their condition.

PLEASE COMPLETE THE TABLE BELOW:

FACILITY	NO OF ROOMS	CONDITION
CLASSROOMS (PERMANENT)		
CLASSROOMS (TEMPORARY)		
STAFF ROOM		
OFFICE/STORE		
LIBRARIES		
LABORATORIES		
HALLS		
EDUCATOR'S ABLUTIONS BLOCKS		
LEARNERS ABLUTION BLOCKS		
HOMECRAFT CENTRES		
OTHER		

FURNITURE ASSESSMENT (Comment) TOTALS

The second secon				
CONDITION	SUFFICIENT	4 /	OTHER	

TOILETS - TYPE OF TOILETS

rofor t	o do	Silve	I tal	to de	den

FLUSH		A PIT L'ATRINESE O R	JUSTICE	NONE	
CONDITIONS/QUANTITY		GOOD	REASONABLE	BAD	TOTAL
GIRLS TOILETS					
BOYS TOILETS					
STAFF TOILETS					
WC SUFFICIENT	YES	NO	IF NO, ADD NUMBER REQUIRED		
GIRLS TOILETS					
BOYS TOILETS					
STAFF TOILETS - FEMALE					
STAFF TOILETS - MALE					
GRADE "R" TOILETS					

5. ENGINEERING SERVICES

IS THE SCHOOL ALREADY CONNECTED TO ANY OF THE FOLLOWING SERVICES?

WATER	×	SEWERAGE	x	ELECTRICITY	×

IF NOT ALREADY CONNECTED, PLEASE INDICATE WHICH OF THE FOLLOWING RETICULATED SERVICES ARE AVAILABLE:

SERVICE	AVAIL	ABLE	DISTANCE TO NEAREST	DETAILS OF SUPPLY (Pipe size, etc)
	YES	NO	POINT OF SUPPLY (m)	
WATER	x		10	

SEWERAGE	x		10	
ELECTRICITY	x		20	
IMPLICATIONS OF CONNECTING	TO SERVICES,	sewer needs upgrade due to frequent block	ages	
IF ANY				

IF RETICULATED WATER IS NOT AVAILABLE:



	EXISTING BUILDINGS (CONTINUED)		
ARE THERE RAINWATER TANKS?	YES		NO	х
HOW MANY?				
IS THERE SUFFICIENT WATER ON SITE FOR BUILDIN	IG YES	x	NO	
IF NOT, WHERE IS THE NEAREST SOURCE OF WATE	ER?	10m		
FUNCTIONAL?		yes		
FENCING IS THE SITE FENCED?	YES	x	NO	
TYPE AND HEIGHT OF FENCING				
CONDITION OF FENCING				
GOOD	REASONABLE		BAD	
LENGTH OF FENCING TO BE REMOVED				



CONDITION OF EXISTING BUILDINGS (BLOCK SPESIFIC) NOTE A ASSESMENT SHOULD BE MADE PER BUILDING AND NOT A GENERAL ASSESMENT ROOF COVER CORRUGATED IRON YES ASBESTOS YES NO CLASSROOM BLOCK CONDITION GOOD REASONABLE BAD **VERY BAD PURLINS ROOF TRUSSES - CONDITION** GOOD REASONABLE BAD GUMPOLES GOOD BUT LOOSE AND NOT BOLTED **GUTTERS, FASCIAS AND DOWNPIPES** GOOD REASONABLE BAD NONE GUTTERS FASCIAS BARGE BOARD DOWNPIPES WALLS NO STRUCTURAL CRACKS YES NO STRUCTURAL CRACKS IN SOME BLOCKS YES NO MUD BRICKS YES NO NO STRUCTURAL CRACKS YES NO ARCHIVE FOR JUSTICE EXTERNAL FINISH GOOD REASONABLE BAD FACEBRICK PAINT x PLASTER ON GABLE ENDS

INTERNAL FINISH

PLASTER ON GABLE ENDS

FACEBRICK PAINT GOOD

REASONABLE

BAD

CONDITION OF EXISTING BUILDINGS (BLOCK SPESIFIC) NOTE A ASSESMENT SHOULD BE MADE PER BUILDING AND NOT A GENERAL ASSESMENT GOOD CONCRETE SCREED - BAD DUNG SMEARED FLOORS NO VINYL TILES STOEPS CONCRETE NO CONCRETE GOOD x BAD SCREED - BAD CEILINGS GOOD REASONABLE BAD NONE combinations of both WINDOWS STEEL WINDOWS GOOD REASONABLE BAD NONE GLASS PAINT combinations of both FITTINGS FIXED TEACHER CUPBOARD GOOD REASONABLE BAD NONE PINNING BOARD ARCHIVE FOR JUSTICE FOLDING DOOR BEAM FOR FOLDING DOOR CHAIR RAIL WRITING BOARD WATER TANKS GOOD REASONABLE QUANTITY SITE WORKS * DISABLED RAMP REQUIRED Yes NO STORMWATER PROBLEMS AT STOEP SITE STORMWATER PROBLEMS AT ONE SIDE CLASSROOM BLOCK

DEMOLI	SHING		
YES	x	NO	
S PER THE FOLLOWING:			
SIZE OF STRUCTURE: (LENGTH X WIDTH X HEIGHT) 25 x 2 x 2.5			
YES	x	NO	
YES	x	NO	
ONDAVEL, TOILET BLOCK)		Existing ablution block	
NDUM 'A' ATTACHED)			
Refer to photo journal			
YES		NO	
YES		NO	
YES		NO	
ONDAVEL, TOILET BLOCK)			
	(100s) 34 20 r		
4, 1-1	1 t = 1 t / 2 / 2		
to of souls	5 Clympoth		
ARCHIVE F	OR JUSTICE		
YES		NO	
AS PER THE FOLLOWING:			
	1		
YES		NO	
YES		NO	
ONDAVEL, TOILET BLOCK)			
ENDUM 'A' ATTACHED)	w		
,			
	YES YES YES ONDAVEL, TOILET BLOCK) Refer to photo journal YES YES ONDAVEL, TOILET BLOCK) REFER THE FOLLOWING: YES YES YES ONDAVEL, TOILET BLOCK) A R C H I V E F YES YES YES YES YES YES YES YE	YES X YES X ONDAVEL, TOILET BLOCK) Refer to photo journal YES YES AS PER THE FOLLOWING: YES ONDAVEL, TOILET BLOCK) SAS PER THE FOLLOWING: YES ONDAVEL, TOILET BLOCK) YES AS PER THE FOLLOWING: YES ONDAVEL, TOILET BLOCK) YES ONDAVEL, TOILET BLOCK) YES YES ONDAVEL, TOILET BLOCK)	YES X NO SPER THE FOLLOWING: 25 x 2 x 2 5 YES X NO ONDAVEL, TOILET BLOCK) YES NO YES NO YES NO ONDAVEL, TOILET BLOCK) YES NO ONDAVEL, TOILET BLOCK) YES NO SPER THE FOLLOWING: YES NO ONDAVEL, TOILET BLOCK) YES NO ONDAVEL, TOILET BLOCK) YES NO ONDAVEL, TOILET BLOCK) YES NO ONDAVEL, TOILET BLOCK)

	ELECTRICAL	SUPPLY		
ELECTRICAL SUPPLY				
ANY ELECTRICAL SUPPLY CLOSE TO SCHOOL	YES	×	NO	
IF YES, INDICATE DISTANCE FROM THE PROPOSED SITE	20m			
IS IT POSSIBLE TO CONNECT TO CLOSEST SOURCE OF ELECTRIC	yes			
WILL THE CLOSEST SOURCE HAVE THE CAPACITY TO SUPPLY PO	OWER	to be determined by engine	er	
WHEN CAN THE SCHOOL BE ELECTRIFIED				
WILL ALTERNATIVE ENERGY SOURCE HAVE TO BE USED		no		
	GENERAL INFO	ORMATION		
PLEASE MAKE A FIRST ORDER ESTIMATE OF THE COST OF	F RESTORING THE EXI	STING CLASSROOMS TO A	SIMILAR	
STANDARD AS THAT OF NEW CLASSROOMS (IF DONE AS F	PART OF CONTRACT FO	OR NEW BUILDINGS)		
NO OF CLASSROOMS THAT CAN FEASIBLY BE RESTORED/RENOV	/ATED			
ESTIMATED COST OF RESTORATION/RENOVATION EXCLUDING VA	AT AND PROFESSIONAL F	FEES		
ESTIMATED COST OF RESTORATION/RENOVATION INCLUDING VA	T AND PROFESSIONAL F	EES		
This section is to be done in conjunction with the cost estimate to be enclosed.	osed			
GENERAL				
IS THERE ANY REASON WHY CONSTRUCTION MAY BE DELAYED (access, site ownership) OR	CAN IMPLEMENTATION BEGIN	IMMEDIATELY	
Geothechnical survey - dolomitic conditions expected/Sg Diagrams/ "As b	uilts required/Road closure f	or access to sports fields should i	oe considered	
Alternative sewer solutions should be invesigated - current	septic tanks require m	aximal maintenance.		
ANY OTHER SIMILAR SCHOOL WITHIN 5km RADIUS	PR I CH	1. J.A.		
		Ce from the		
ANY OTHER AMENITIES	ARCHIVE FO	R JUSTICE		
Nelson Mandela Community Center is a neighbour				_
ANY OTHER COMMENTS				
COMMUNITY PROFILE				
APPROXIMATE NO OF RESIDENTS				
SOURCE OF LIVELIHOOD	Approximate %			
Farming				
Local industries (within 5km)				
Civil Service				
Migrant work				
Unemployed				

SITE PLAN INFORMATION REQUIRED The following information must be indicated on the site plan to be included with this report: North Direction to be indicated Done X Existing fence line with distances to be indicated Done New fence line with distances to be indicated Done Total length of site boundary to be indicated Done Existing buildings to be shown Done Overhead lines to be indicated Done Cellphone towers (if any) to be indicated Done Position of new buildings to be indicated Done n/a Access road to be indicated Done Attendance register of site evaluation to be provided Done Contour lines to be indicated (1m intervals) Done Prevailing winds to be indicated Done Neighbouring erven and usage Done **Building lines if any** Done Vegetation and site features X Done Preferred scale is 1:500 Done Location of the site in X/Y coordinates in WGS 84 Done X Where required, extent of earthworks to form platforms must be indicated Done Done x **►ESTIMATED COST** ■ To be enclosed

ATTENDANCE REGISTER

To be enclosed