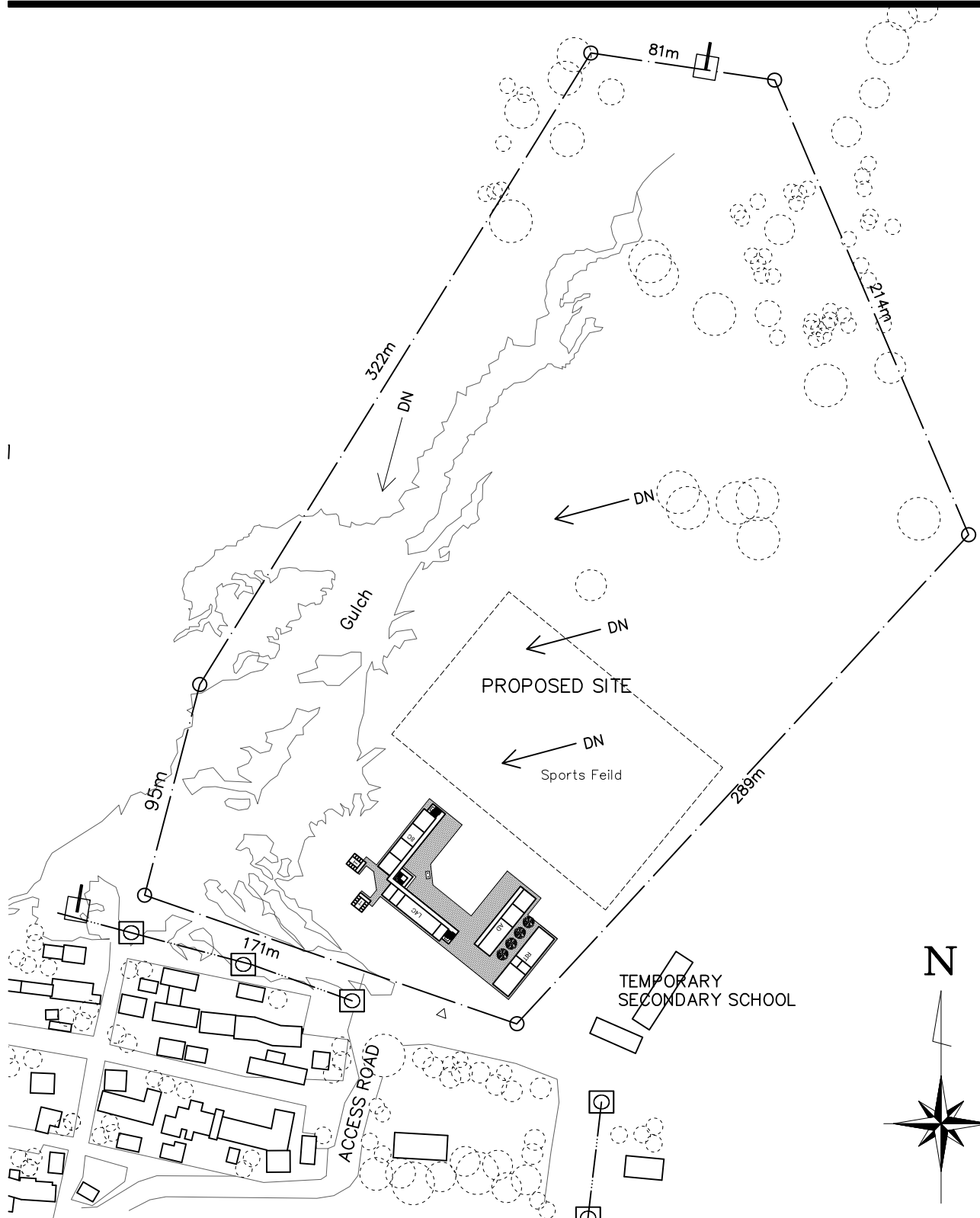


5. References




No.	Name	Form	Original/Copy	Issuing Organization	Year of publication
1	List of Construction Rate and Labor Cost	Soft Copy	Copy	BoCRT	2016
2	List of Cobble Stone Construction Rate	Soft Copy	Copy	BoCRT	
3	Drawing & Specification of High School Construction	Soft Copy	Copy	BoCRT	
4	Ethiopian EIA Guideline	Soft Copy	Copy	Environmental Protection Authority	2008

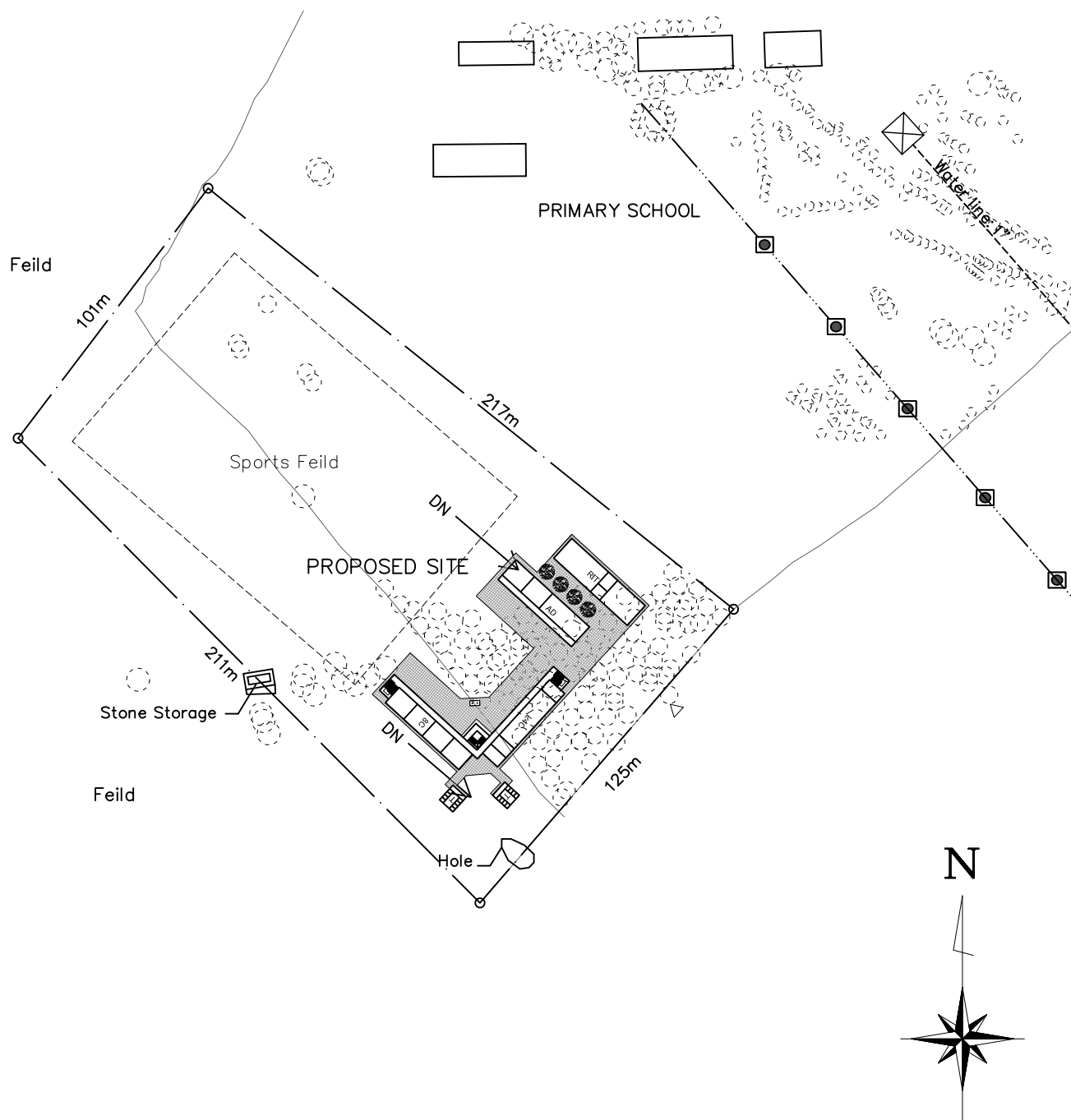
APPENDIX 6. LAYOUT PLAN OF THE PROJECT SCHOOLS



PROPOSED SITE PLAN
SCALE 1:2,500M




Legend

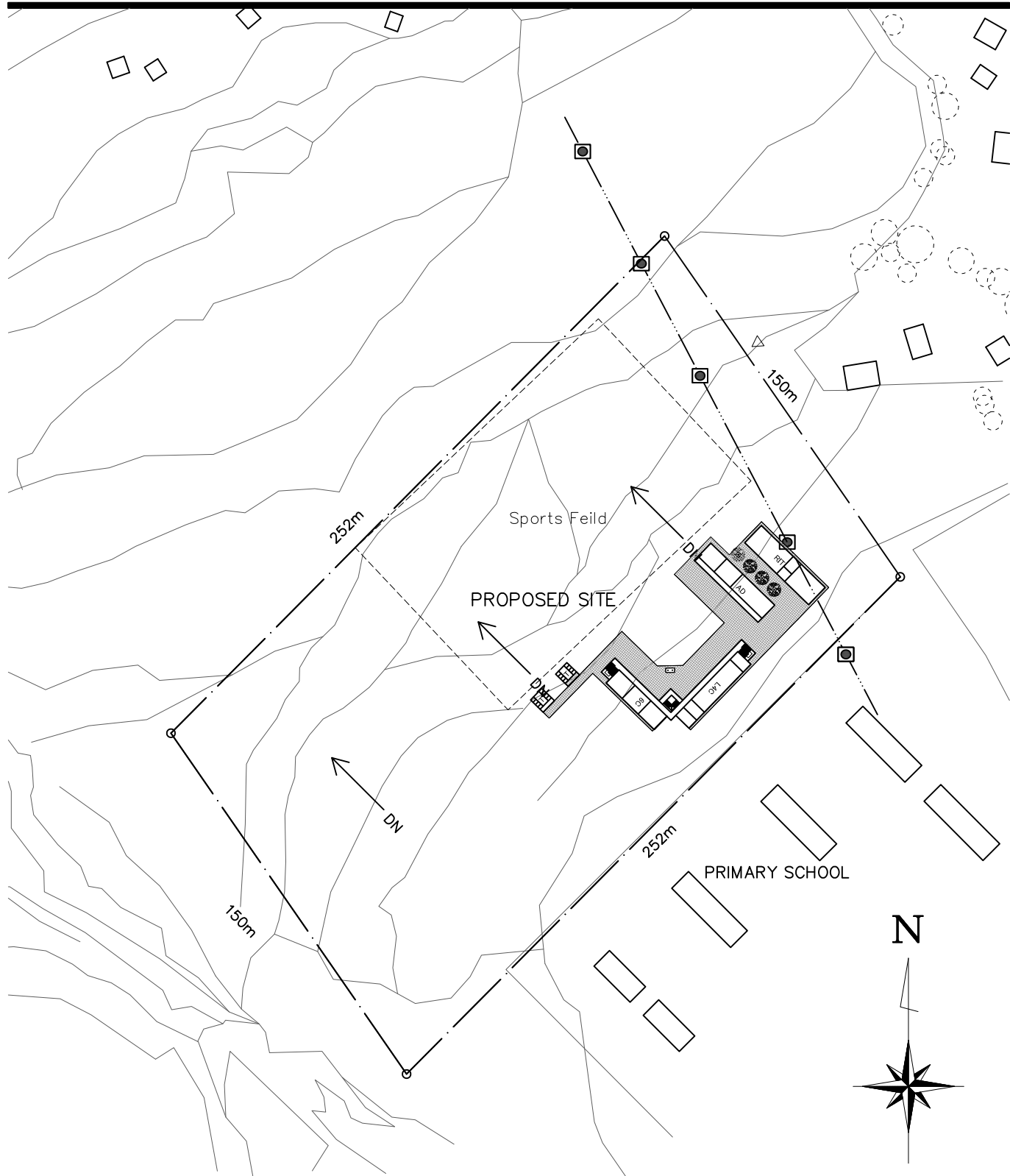
-  Pump
-  Well
-  Electric pole



PROPOSED SITE PLAN
SCALE 1:2,000M




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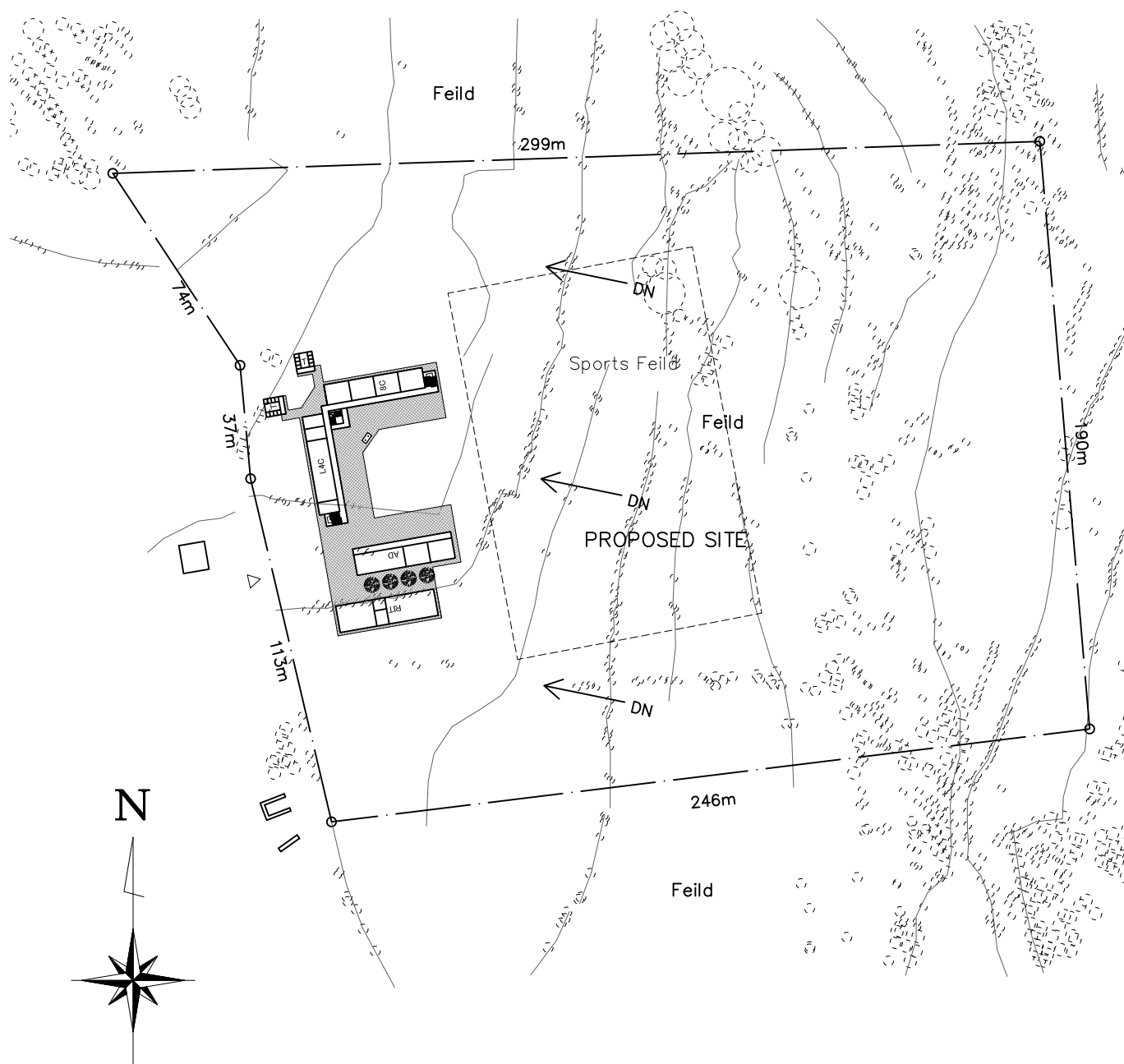
-  Pump
-  Well
-  Electric pole



PROPOSED SITE PLAN
SCALE 1:2,000M




Legend

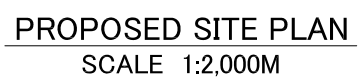
-  Pump
-  Well
-  Electric pole






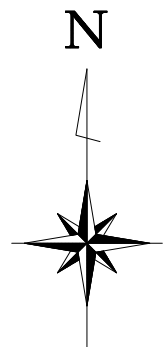
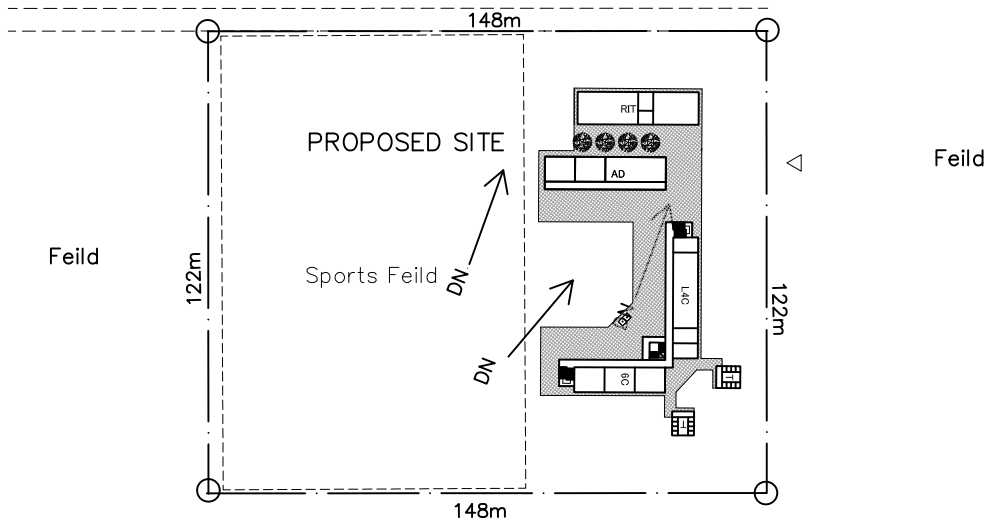
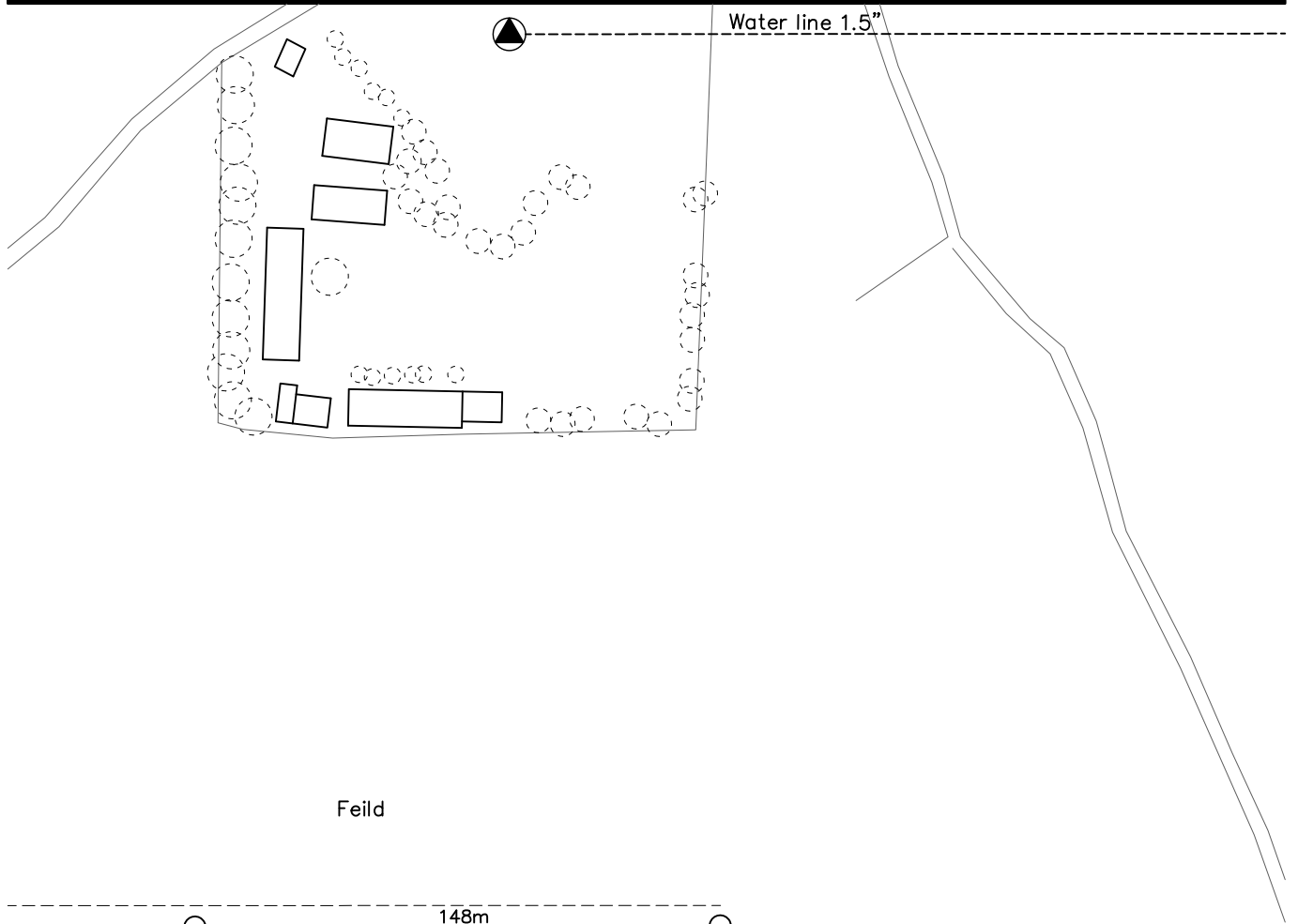
PROPOSED SITE PLAN
SCALE 1:2,000M

Legend

-  Pump
-  Well
-  Electric pole






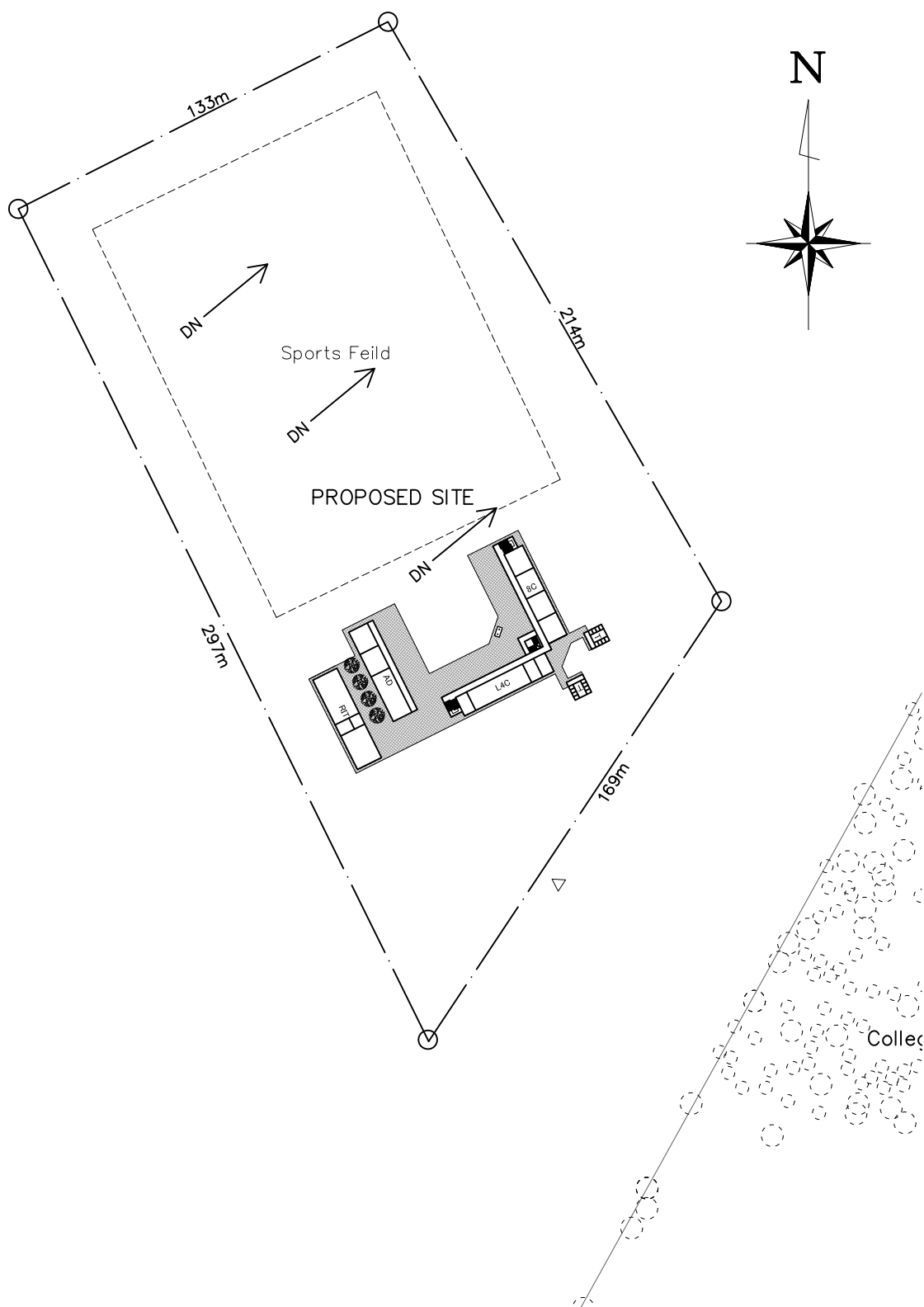
 Pump
 Well
 Electric pole






PROPOSED SITE PLAN
SCALE 1:2,000M

Legend

-  Pump
-  Well
-  Electric pole



PROPOSED SITE PLAN
SCALE 1:2,000M

- Legend
-  Pump
 -  Well
 -  Electric pole

**APPENDIX 7. RESULT OF SITE SURVEY AND
EXISTING SCHOOL INFORMATION**

1 Endamariam Qorar

1	General information of the site	ID	1	Requested levels to be covered	G9-12	Latitude/longitude	N 13° 35'07.98" E 39° 07'19.70"
		Site, Woreda, Zone	Endamariam Qorar, Degua temben, South Eastern Zone			Area	8.5ha
2	Access	Distance & time from Mekelle	63 km	1 hr.	Distance & time from WEO	12km	15min
		Distance & time from the main road	1km	3min	Spur road	unpaved	
		Access road to the site	Available (Flat from the spur road to the site)				
3	Site condition	Level difference	Almost none (flat)		Obstructions, Potential problems	Dried river (flows in the rainy season), trees	
		Land development	Necessary		Soil condition	Silt, sand, black cotton soil	
4	Existing Infrastructure	Water	Ground water (Hand pump) / Available in the site		Electricity	Available / 11 m from the site	
5	No. of schools in the catchment	Primary school	21 schools		Secondary school	1 school (the requested school - currently teaching G9 level in a temporary classroom building adjacent to the site)	
6	Remarks	<ul style="list-style-type: none">• The site is close to the main road. The condition of the spur road is good. No problem in access.• A part of the site is black cotton soil and there is a dried river in the north western part of the site. The river is likely to flow in the rainy season.• A temporary classroom building was constructed in which classes are taught. The classrooms are overcrowded.					



Site location



Site plan



Direction of the northwest from the south corner of the site





Direction of the north west from the north eastern corner of the site



A dried river originating from the north of the site



A community well on the northern boundary of the site

School Name	Endamariam Qorar Lower Secondary School			ID 1 (Now operating in temporary classroom buildings)	
			ID 1 (Endamariam Qorar Lower Secondary School) started its operation in 2015/16 using a temporary classroom building constructed by the community.		
			Temporary classroom building		
Grade Levels	G9-G10		School shift	Double	
No. of students	Grade	G9	G10	G11	G12
	Male	317			
	Female	304			
	Total	621			
No. of sections	(Science/Tech)	10			
	(Social science)				
No. of teachers	18	BA/BS17, TTC1			
No. of staff	3	Director1, Guard2			
Existing facilities	Temporary classroom building(5)				
【School situation】					
As the school was newly opened this year (2015/16), only G9 level is taught and the director is the only administration staff. Guards are hired using the fund collected from the community. No block grant has been allocated from the government yet.					
【Information on existing facilities】					
There are 5 temporary classrooms which were constructed with an assistance from the community.					



Temporary classroom



Temporary classroom



Inside of a classroom



Inside of a classroom



General view of the temporary classroom



Houses in the neighborhood



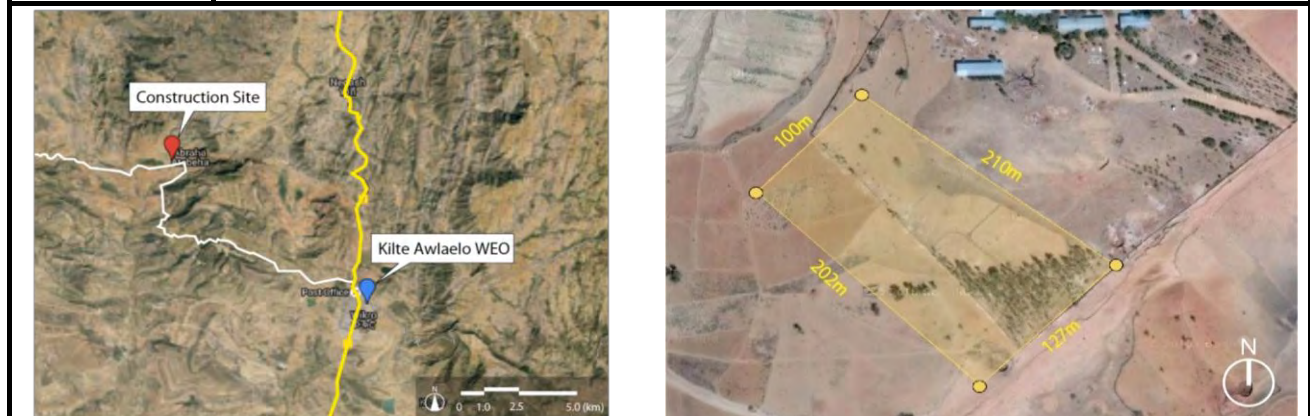
A Community well nearby the school compound



Road towards the village

2 Abraha Weatsbaha

1	General information of the site	ID	2	Requested levels to be covered	G9-12	Latitude/longitude	N 13° 51'63.21" E 39° 31'44.41"
		Site, Woreda, Zone	Abraha Weatsbaha, Kilte Awlaelo, Eastern Zone			Area	2.3ha
2	Access	Distance & time from Mekelle	64 km	1hr.15min	Distance & time from WEO	14km	30min
		Distance & time from the main road	12km	25min	Spur road	unpaved (Partly in a bad condition)	
		Access road to the site	None (Need to repair 80m & construction is necessary 200m)				
3	Site condition	Level difference	Gently sloped		Obstructions, Potential problems	Stone wall, stone building (not in use), trees, holes	
		Land development	Necessary		Soil condition	Silt, sand	
4	Existing Infrastructure	Water	Not available		Electricity	Available/84m from the site	
5	No. of schools in the catchment	Primary school	8 schools		Secondary school	None	
6	Remarks	<ul style="list-style-type: none">• It is a 25 minute-travel on an unpaved road from the main road. A part of the spur road is in a bad condition, and construction of an access road is necessary.• The site overlaps with a primary school's site. Stone fence of the primary school exists in the center of the site.• There are obstructions such as broken stone building, a hole for a reservoir and many trees.					



Site location	Site plan
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Direction of south east from the west corner of the site	Site has a stone wall of the adjacent primary school
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Collapsed stone building on the south west boundary line	Rainwater reservoir in the south corner of the site
--	---

3 Aragre

1	General information of the site	ID	3	Requested levels to be covered	G9-12	Latitude/longitude	N 13° 30'28.08" E 39° 40'58.95"
		Site, Woreda, Zone	Aragre, Enderta, South Eastern Zone			Area	3.6ha
2	Access	Distance & time from Mekelle	23 km	1hr.	Distance & time from WEO	12km	40min
		Distance & time from the main road	9km	30min	Spur road	unpaved	
		Access road to the site	Available (Need to repair 250 m)				
3	Site condition	Level difference	Sloped		Obstructions, Potential problems	Slate layer 90cm below the surface	
		Land development	Necessary (incl. removal of stones)		Soil condition	Clay, silt, slate layer	
4	Existing Infrastructure	Water	City water (elevated tank)/3km from the site		Electricity	Available in the site	
5	No. of schools in the catchment	Primary school	11 schools		Secondary school	1 (the requested school - currently teaching G9-10 using classrooms of the adjacent primary school)	
6	Remarks	<ul style="list-style-type: none">• A part of the access road is narrow and requires repair.• There are a number of stones on the surface and a slate layer below the surface.• The requested school is temporarily operating using classrooms of the adjacent primary school.					



Site location



Site plan



North east direction from the south corner of the site




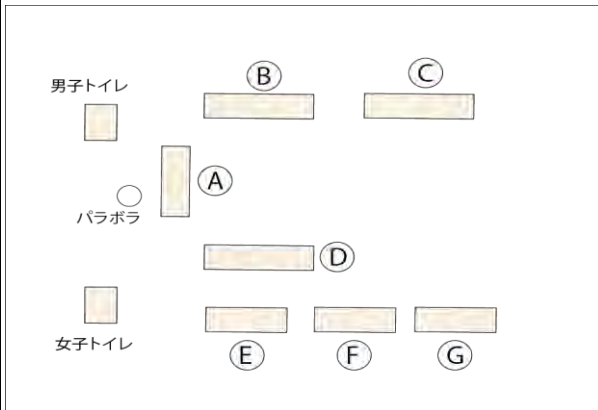
An old quarry in the south west of the site



Slate rock is exposed about 90 cm under the surface



Earth retaining stones in the north east of the site

School Name		Aragure Lower Secondary School		ID 3 (Now operating by using facilities of a primary school)	
			ID 3 (Aragure Lower Secondary School) was opened in 2014/15 by renting facilities of an adjacent primary school.		
			<p>A:Administrati Director's room(1), Deputy on bldg. director's room(1), Staff room</p> <p>B:Classroom bldg. Classroom(4)</p> <p>C:Classroom bldg. Classroom(4)</p> <p>D:Classroom bldg. Classroom(4)</p> <p>E:Library bldg. Library room(1)</p> <p>F:Science lab. Laboratory (Physics1)</p> <p>G:Science lab. lab. (Biology/Chemistry1)</p>		
Grade Levels		G9-G10		School shift	Morning time only
No. of students	Grade	G9	G10	G11	G12
	Male	63	63		
	Female	54	74		
	Total	117	137		
No. of sections	(Science/Tech)	3	3		
	(Social science)				
No. of teachers		13			
No. of staff		5	Director1, Admin & financel, Store keeper1, Guard2		
Existing facilities		6 classrooms are rented in the morning time only. The primary school's facilities are:Classroom(12), Laboratory (Physics 1, Biology/Chemistry1), Library room(1), Director's room(1), Deputy director's room(1), Staff room (1), Store (1), Toilet (Male 8 booths)			
【School situation】					
Satellite receiving devices have been installed, but as electricity has not been connected to the site, they are not used. The surrounding communities are poor and cannot financially assist the school.					
【Information on existing facilities】					
6 out of 12 primary school classrooms are used in the morning time only. The primary school operates under the double shift schooling in the morning and afternoon and furthermore, it rents 6 rooms from an agricultural training center.					



A Classroom building



Science laboratory building



Inside of a classroom building



Inside of a classroom building



Inside of a library room



Inside of a library room



Toilet building for female



Inside of the director's room

4 Maimegelta

1	General information of the site	ID	4	Requested levels to be covered	G9-10	Latitude/longitude	N 14° 05'48.85" E 39° 34'03.99"
		Site, Woreda, Zone	Maimegeltar, Saesie Tsaeda Enba, Eastern Zone			Area	5.3ha
2	Access	Distance & time from Mekelle	85 km	1hr.20min	Distance & time from WEO	7km	10min
		Distance & time from the main road	By the main road		Spur road	-	
		Access road to the site	Available/60m (Needs repair)				
3	Site condition	Level difference	Sloped		Obstructions, Potential problems	Stone building (not in use)	
		Land development	Necessary (incl. removal of stones)		Soil condition	Silt, sand ※Also, there is bedrock of sandstone	
4	Existing Infrastructure	Water	City water/71m from the site		Electricity	Available/71m from the site	
5	No. of schools in the catchment	Primary school	9 schools		Secondary school	None	
6	Remarks	<ul style="list-style-type: none">• Though the site is by the main road, its access road needs repair.• There is bedrock of sandstone in the site, a part of which is a quarry.• There stands a stone building not in use.					



Site location



Site plan



Direction of south from the north eastern corner of the site



Direction of the south from the north western corner of the site



Miners work in the north central part of the site



Access road needs repair

5 Zengee

1	General information of the site	ID	5	Requested levels to be covered	G9-10	Latitude/longitude	N 14° 01'00.79" E 39° 00'34.65"
		Site, Woreda, Zone	Zengeer, Weree Leke, Central Zone			Area	1.8ha
2	Access	Distance & time from Mekelle	163 km	3hr.	Distance & time from WEO	8km	20min
		Distance & time from the main road	8km	15min	Spur road	unpaved	
		Access road to the site	Available/1.2km (In a bad condition. Needs repair)				
3	Site condition	Level difference	Sloped		Obstructions, Potential problems	None	
		Land development	Necessary (incl. removal of stones)		Soil condition	Silt, sand ※there is bedrock	
4	Existing Infrastructure	Water	Groundwater (hand pump)/60m from the site		Electricity	Available/12m from the site	
5	No. of schools in the catchment	Primary school	15 schools		Secondary school	None	
6	Remarks	<ul style="list-style-type: none">• The access road to the site is in a bad condition and needs repair.• There are bedrock and some obstructions such as electric poles and a retaining stone wall.					



Site location



Site plan



South western direction from the north corner of the site



Rock exposed to the surface



Electric poles cutting across the site from east to west



The access road from Felafuli is in a bad condition

6 Siheta

1	General information of the site	ID	6	Requested levels to be covered	G9-10	Latitude/longitude	N 14° 10'12.31" E 39° 28'04.98"
		Site, Woreda, Zone	Sihetar, Ganta feshum, Eastern Zone			Area	3.8ha
2	Access	Distance & time from Mekelle	135 km	2hr.40min	Distance & time from WEO	20km	50min
		Distance & time from the main road	20km	50min	Spur road	unpaved (in a bad condition/ river crossings are required.)	
		Access road to the site	Available ※Needs to level the surface				
3	Site condition	Level difference	Sloped		Obstructions, Potential problems	Trees	
		Land development	Necessary		Soil condition	Silt, sand	
4	Existing Infrastructure	Water	Ground water (electric pump) /275m from the site		Electricity	Available in the site	
5	No. of schools in the catchment area	Primary school	12 schools (8 schools : Ganta feshum ,2schools: /Hawzen woreda, 2 2/Saesi tsaedaemba)		Secondary school	None	
6	Remarks	<ul style="list-style-type: none">• There are 2 access roads to the site, both of which require river crossing. Thus, the access is difficult in the rainy season.• There stands a house by the site.					



Site location

Site plan



South east direction from the north corner of the site

South west direction from the east corner of the site



River crossing is necessary to access to the site

River crossing is necessary to access to the site

7 Korem

1	General information of the site	ID	7	Requested levels to be covered	G9-12	Latitude/longitude	N 12° 30'01.21" E 39° 30'46.81"
		Site, Woreda, Zone	Korem, Korem, Southern Zone			Area	1.9ha
2	Access	Distance & time from Mekelle	173 km	3hr.10min	Distance & time from WEO	1.3km	5min
		Distance & time from the main road	0.93km	3min	Spur road	Unpaved (in a bad condition ✖needs repair)	
		Access road to the site	None/Construction is necessary (550m)				
3	Site condition	Level difference	Partially gently sloped		Obstructions, Potential problems	A large part of the site is used as a farm land	
		Land development	Necessary		Soil condition	black cotton soil	
4	Existing Infrastructure	Water	City water/450m from the site		Electricity	Available/450m from the site	
5	No. of schools in the catchment	Primary school	8 schools		Secondary school	1 school: G9-10, 1 school:G11-12	
6	Remarks	<ul style="list-style-type: none">• Almost all soil is black cotton soil in the site.• River crossing is necessary to access to the site. Constructing a new access road on the black cotton soil will be a heavy burden for the Ethiopian side.• A large part of the site is used as a farm land.• The city has a master plan. (urban planning)					



Site location	Site plan
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Direction of north from the south east corner of the site	Direction of east from the north west corner of the site
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Construction of an access road is necessary	Crossing water is necessary to access to the site
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School Name	Biruh Tesfa Preparatory School		Preparatory school in the catchment of School ID 7		
			<p>A preparatory school in the catchment of School ID 7. This is the only preparatory school in Korem Woreda and situated by the main road (National Road 2) and in the center of the city. The school is about 2km away from the requested school site. Beside the school exists Korem Lower Secondary School. It is assumed that about 50% of students of this school will be transferred to the requested school upon construction completion.</p>		
			<p>L:Classroom bldg. (Temporary Laboratory (Chemistry) (1), Store (1)</p> <p>M:General bldg. Administration room(1), Teachers' room (1), Library room(1), Classroom(8), Laboratory (Physics) (1), Laboratory (Biology) (1), ICT room(1), Broadcasting room(1), Pedagogical room(1), Study room(1), Toilet</p>		
Grade Levels	G11-G12		School shift	Double	
No. of students	Grade	G9	G10	G11	G12
	Male			221	182
	Female			124	136
	Total			345	318
No. of sections	(Science/Tech)			5	5
	(Social science)			2	2
No. of teachers	30	MA/MS6, BA/BS 21, TTC 3			
No. of staff	10	Director1, Deputy director1, Admin & financel, Librarian1, Record officer 1, Secretary1, Store keeper1, Guard2, Janitor1			
Existing facilities	Classroom(8), Laboratory (Physics1, Chemistry1, Biology1), Library room(1), Study room(1), ICT room(2), Administration room(1), Teachers' room(1), Broadcasting room(1), Store (1), Toilet				
【School situation】					
Graduates of surrounding 6 secondary schools join this school. All admission applicants were accepted this year(2015/16). Registration fee is Birr 80/year/student. The school generates income by selling trees and renting facilities in the compound.					
【Information on existing facilities】					
The classroom building is 2-storied.					



General view



Classroom building



Inside of a classroom



Inside of a classroom



Inside of the library room





ICT room



Inside of a laboratory



Administration room

School Name	Korem Lower Secondary School			Secondary school in the catchment of School ID 7	
				A secondary school in the catchment of School ID 7. This is the only secondary school in Korem Woreda and situated by the main road (National Road 2) and in the center of the city. The school is about 2km away from the requested school site. Beside the school stands Biruh Tesfa Preparatory School. It is assumed that about 60% of students of this school will be transferred to the requested school upon construction completion.	
				<p>A:Administration Director's room(1),Staff room bldg. (1),Record room(1),Broadcasting room(1)</p> <p>B:Classroom bldg. Classroom(5)</p> <p>C:Science lab bldg. Laboratory (Chemistry) (1),Store (1)</p> <p>D:ICT/laboratory bldg. ICT room(1),Satellite receiving room(1),Laboratory (Biology) (1)</p> <p>E:Classroom bldg.* Classroom(4)</p> <p>F:Library bldg. Library room</p> <p>G:Classroom bldg.* Classroom(5)</p> <p>H:Classroom bldg.* Classroom(2),Store (2)</p> <p>I:Classroom bldg. Classroom(5)</p> <p>J:Classroom bldg. Classroom(5)</p> <p>K:Classroom bldg. Classroom(6)</p> <p>L:Classroom bldg.* Classroom(1),Pedagogical room</p> <p>*Building E, G, H and L are temporary buildings.</p>	
Grade Levels	G9-G10		School shift	Double	
No. of students	Grade	G9	G10	G11	G12
	Male	532	704		
	Female	492	764		
	Total	1, 024	1, 468		
No. of sections	(Science/Tech)	20	28		
	(Social science)				
No. of teachers	101	BA/BS 96, TTC 5			
No. of staff	17	Director1, Deputy director3, Admin & financel, Librarian1, Record officer 1, Secretary1, Lab staff3, Store keeper1, Guard4, Janitor1			
Existing facilities	Classroom(21), Classroom <temporary building>(9), Laboratory (Chemistry1, Biology), ICT room(1), Satellite receiving room(1), Library room(1), Director's room(1), Staff room (1), Record room(1), Broadcasting room(1), Pedagogical room<temporary building>(1), Store (2), Store <temporary building>(4), Toilet				
【School situation】					
About 1000 admission applicants were rejected this year (2015/16), as PSR exceeds 50. About 90% students rent a room for housing in the city. The school generates income by selling trees and renting facilities in the compound.					
【Information on existing facilities】					
Due to a lack of classrooms, the school rents 5 classrooms from an adjacent primary school. Many of classroom buildings are one-storied.					



Temporary classroom building



Inside of a temporary classroom building



Classroom building



Toilet building



Library building



Inside of a library room



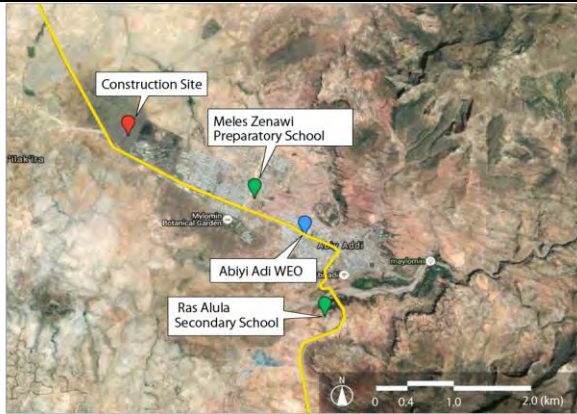
Inside of a ICT room



Inside of the director's room

8 Abiyi Adi

1	General information of the site	ID	8	Requested levels to be covered	G9-12	Latitude/longitude	N 13° 38'29.21" E 38° 58'35.24"
		Site, Woreda, Zone	Abiyi Adi, Abiyi Adi, Central Zone			Area	3.6ha
2	Access	Distance & time from Mekelle	93 km	1hr.40min	Distance & time from WEO	3km	5min
		Distance & time from the main road	By the main road		Spur road	—	
		Access road to the site	None/Construction is necessary (500m)				
3	Site condition	Level difference	Partially steep		Obstructions, Potential problems	Monument	
		Land development	Necessary		Soil condition	Clay, Silt ※a lot of stones	
4	Existing Infrastructure	Water	City water/240m from the site		Electricity	Available/334m from the site	
5	No. of schools in the catchment	Primary school	10 (2 schools/Abi-adi, 8 schools/Kola temben)		Secondary school	1: G-9-10, 1:G11-12	
6	Remarks	<ul style="list-style-type: none">• Construction of an access road is necessary, though the site is located by the main road.• A teacher training college campus is adjacent to the site.• There is a monument in the site, which may become an obstruction. Besides, there are a lot of stones which need to be removed.• The city has a master plan (for urban planning).					



Site location



Site plan



Direction of the north west from the south corner of the site



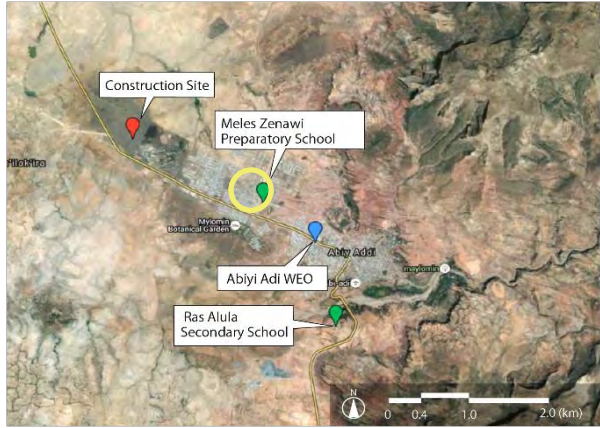

Direction of the north east from the west corner of the site



Direction of the south west from the north corner of the site



Silt with stones

School Name	Melas Zenawi Preparatory School			Preparatory school in the catchment of School ID 8	
				A preparatory school in the catchment of School ID 8. This is the only preparatory school in Abi Ady Woreda and situated off the main road and about 2km away from the requested school site. It is assumed that about 40% of students of this school will be transferred to the requested school upon construction completion.	
				A:Administrati Teachers' room(1),Store on bldg. (2),Toilet/shower(1),Director's room(1),Secretary's room(1),Administration and finance room(1),Deputy director's room(1),Broadcasting room(1),Record room(1),Counseling room(1)	
				B:Library bldg. Library room	
				C:Classroom Classroom(16), Laboratory(3), ICT bldg. room for students(2), ICT room for teachers (1),Students and staff council room(1),Store (3),Toilet	
Grade Levels	G11-G12			School shift	Double
No. of students	Grade	G9	G10	G11	G12
	Male			383	504
	Female			204	278
	Total			587	782
No. of sections	(Science/Tech)			7	10
	(Social science)			3	4
No. of teachers	49	MA/MS 4, BA/BS 42, TTC 3			
No. of staff	15	Director1, Deputy director2, Admin & financel, Librarian1, Record officer 1, Secretary1, Store keeper1, Guard3, Janitor4			
Existing facilities	Classroom(16), Laboratory (Physics1, Chemistry1, Biology1), Student ICT room(2), ICT room for teachers(1), Library room(1), Director's room(1), Deputy director's room(1), Teachers' room(1), Secretary's room(1), Record room(1), Administration and finance room(1), Broadcasting room(1), Counseling room(1), Students and staff council room(1), Store (5), Toilet/shower				
【School situation】					
About 300 admission applications were rejected this year (2015/16), as PSR exceeds 50. About 30% students rent a room for housing in the city. Registration fee is Birr 200/year/student.					
【Information on existing facilities】					
The classroom building is 3-storied, the administration building and the library building are 2-storied. The first floor of the Library building was not used.					



Administration building



Administration and finance room



Library building



Inside of the library room



Classroom building





Inside of a classroom



Laboratory



Toilet building

School Name	Ras Alula Baneg Lower Secondary School			Secondary school in the catchment of School ID 8	
				<p>A secondary school in the catchment of School ID 8. This is the only secondary school in Abi Ady Woreda, situated in the outskirts of the city and by the main road. The school is about 4km away from the requested school site. It is assumed that about 60% of students of this school will be transferred to the requested school upon construction completion.</p>	
				<p>A:Store Store B:Library bldg. Library room(1),Tutorial room(1),unused room(1) C:English bldg. Special room for English language learning(1) D:Classroom bldg. Classroom(4) E:Administrati on/ICT bldg. ICT room(1),Director's room(1),Pedagogical room(1),Broadcasting room(1),Facilitators' room(1) F:Classroom bldg. Classroom(4) G:Classroom bldg. Classroom(4) H:Classroom bldg. Classroom(4) I:Administration /Science lab Deputy director's room(1), Laboratory(1), Administration and finance room(1),Store (1) J:Classroom bldg. Classroom(4) K:Administrati on bldg. Teachers room(1), Student council's room(1) L:Classroom bldg. Classroom(4) M:Cafe Cafe</p>	
Grade Levels	G9-G10			School shift	Double
No. of students	Grade	G9	G10	G11	G12
	Male	527	439		
	Female	516	417		
	Total	1,043	856		
No. of sections	(Science/Tech)	16	16		
	(Social science)				
No. of teachers	53	BA/BS 50, TTC 3			
No. of staff	17	Director1, Deputy director2, Admin & finance1, Librarian1, Record officer 1, Secretary1, Store keeper1, Guard4, Janitor5			
Existing facilities	Classroom(24), Laboratory(1), ICT room(1), Library room(1), Director's room(1), Deputy director's room(1), Teachers' room(1), Record room(1), Administration and finance room(1), Broadcasting room(1), Pedagogical room(1), Tutorial room(1), Student council's room(1), Special room for English language learning(1), Facilitator's room(1), Cafe(1), Store (3), Toilet				
【School situation】					
About 400 admission applicants were rejected this year (2015/16), as PSR exceeds 50. About 50% students rent a room for housing in the city. No plasma program is shown due to some troubles with the satellite receiving system. The school generates income by selling trees and renting plots in the compound to farmers.					
【Information on existing facilities】					
Many of the existing buildings are one-storied. 8 classrooms in Building C and L are not used during the hot season.					



Classroom building



Inside of a classroom



Inside of a ICT room



Inside of a laboratory



Inside of a library room



Inside of a library room



Teachers' room



Toilet building

9 Adigrat

1	General information of the site	ID	9	Requested levels to be covered	G9-12	Latitude/longitude	N 14° 16'44.64" E 39° 26'57.88"
		Site, Woreda, Zone	Adigrat, Adigrat, Eastern Zone			Area	1.6ha
2	Access	Distance & time from Mekelle	115 km 1hr.50min		Distance & time from WEO	300m	1min
		Distance & time from the main road	By the main road		Spur road	—	
		Access road to the site	Available/75m (Access is good)				
3	Site condition	Level difference	Partially gently sloped		Obstructions, Potential problems	Stone monument, trees	
		Land development	Necessary		Soil condition	Silt, sand	
4	Existing Infrastructure	Water	City water/adjacent to the site		Electricity	Available/10m from the site	
5	No. of schools in the catchment	Primary school	19 schools (5 schools/Adigrat, 5 schools/Gantafshum, 9 schools/Gulomekada)		Secondary school	3 schools: G9-10, 1school :G9-12, 1 school:G11-12	
6	Remarks	<ul style="list-style-type: none">• The site is by the main road and the access road is available. Thus, no problem in accessibility.• There stand houses by the site.• There is a stone monument in the site, which may become an obstruction.					



Site location

Site plan





Direction of the west from the north east corner of the site

Direction of the south from the north west of the site



Houses by the site

No problem in access to the site

School Name		Tsin Seta Secondary School (Private)		Secondary and preparatory school in the catchment of School ID 9	
				A private secondary and preparatory school built by the Catholic church. This school is in Adigrat and situated in the catchment of School ID 9. About 2km away from the requested school site. It is assumed that about 20% of students of this school will be transferred to the requested school upon construction completion.	
				A:Classroom/Ad ministration bldg. Classroom(27), Laboratory (3), ICT room(1), Director's room(1),Deputy director's room(1),Teachers' room(1), Administration and finance room(1),Record room(1) ,Secretary's room(1),Store (1),Student council room(1), Toilet Hall B:Hall Hall C:Library Library room(1),Store (1), Study room(1) D:Cafe Cafe E:Multi-purpose bldg. Technical drawing room(1), Culture center(1), Pedagogical room(1)	
Grade Levels		G9-G12		School shift	
No. of students	Grade	G9	G10	G11	G12
	Male	187	207	187	174
	Female	208	219	228	192
	Total	395	426	415	366
No. of sections	(Science/Tech)	7	7	6	5
	(Social science)			1	1
No. of teachers	40 MA/MS 1, BA/BS 37, TTC 2				
No. of staff	20	Director1,Deputy director 2,Admin & financel,Librarian2,Record officer 1,Secretary1,Lab staff1,Cashier 1,Store keeper1,Guard4,Janitor5			
Existing facilities	Classroom(27), Laboratory (Physics1,Chemistry1,Biology1), Library room(1), ICT room(1),Director's room(1),Deputy director's room(1),Teachers' room(1), Administration and finance room(1),Record room(1),Secretary's room(1),Student council's room(1),Toilet for teachers (2),Cafe(1),Pedagogical room(1),Technical drawing room(1),Culture center(1),Library room(1), Study room(1),Store (2), Toilet				
【School situation】					
Only students who mark a high score at PSLCE may be admitted. This is a private school and no subsidies or other form of governmental assistants are provided. To run the school, the school management collects 250 Birr/month/student and students pays the fee for 10 months a year(no school fee is collected during vacation months). This is the only school which operates under the single-					
【Information on existing facilities】					
Administration rooms, classrooms and science laboratories are laid out together in a U-shaped 3-storied building (a part of the building is 2-storied), which surrounds the courtyard. Besides, there are a library building, a hall, a cafe, etc. The school buildings feature relatively high-grade building materials such as stone for exterior walls, wooden ceiling, grille, etc.					



Building of classrooms, administration rooms and science labs



Inside of a classroom



Teachers' room



Laboratory sink



Library building





Inside of a library room



Hall



Inside of the Hall

School Name	Agazi Preparatory School		Preparatory school in the catchment of School ID 9		
			<p>A preparatory school in the catchment of School ID 9. This school is in Adigrat and situated about 2km away from the requested school site. Beside the school exists Agazi lower secondary school. It is assumed that about 15% of students of this school will be transferred to the requested school upon construction completion.</p>		
			<p>E:Classroom bldg. Classroom(3) F:Science lab bldg. Laboratory(2) G:Classroom bldg. Classroom(5) H:lab • ICT Laboratory(1), ICT room(2) I:Classroom bldg. Classroom(4), Laboratory(1) J:Administrati Administration and finance room(1),Store (1) on bldg. K:Multi- Student council's room (1), Counseling room(1) purpose L:Administrati Director's room(1), Staff room (1), Record room(1), Toilet on bldg. M:Library bldg. Library room(1) N:Student club bldg. Sport club room(1) O:Hall Hall P:Classroom bldg. Classroom(3), ICT room(1)</p>		
Grade Levels	G11-G12		School shift	Double	
No. of students	Grade	G9	G10	G11	G12
	Male			204	219
	Female			244	305
	Total			448	524
No. of sections	(Science/Tech)			6	8
	(Social science)			3	4
No. of teachers	49	MA/MS 6, BA/BS 8, TTC 35			
No. of staff	15	Director1, Deputy director2, Admin & financel, Librarian1, Record officer 1, Secretary1, Store keeper1, Guard3, Messenger1, Janitor3			
Existing facilities	Classroom(15), Laboratory (Chemistry2, Physics1, Biology1), Library room(1), ICT room(3), Director's room(1), Staff room (1), Administration and finance room(1), Record room(1), Toilet for teachers(2), Student council's room(1), Counseling room(1), Sport club room(1), Hall(1), Store (2)				
【School situation】					
About 50 admission applicants were rejected due to the limited capacity this year (2015/16). Most students rent a room for housing in the city. Registration fee is 170 Birr/year/student.					
【Information on existing facilities】					
A part of classroom buildings, library room and sport field are shared with the lower secondary school. Many buildings are one-storied.					



Classroom building



Inside of a classroom



ICT room



Library building



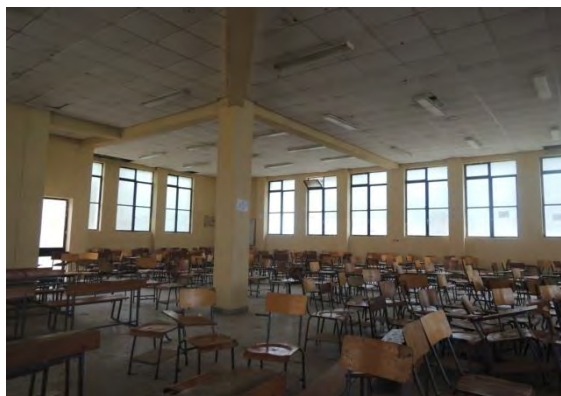
Inside of a library room



Inside of a library room



Hall



Inside of the Hall

School Name	Agazi Lower Secondary School	Secondary school in the catchment of School ID 9
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A secondary school in the catchment of School ID 9. This school is in Adigrat and situated about 2km away from the requested school site. Beside the school stands Agazi preparatory school. It is assumed that about 15% of students of this school will be transferred to the requested school upon construction completion.



A:Administrati Director's room(1), Deputy director's room(1), Secretary's room (1), Staff room (1), Administration and finance room(1), ICT room(1)

B:Tutorial bldg. Tutorial room(1), Store (1)

C:Classroom bldg. Classroom(8)

D:Classroom bldg. Classroom(5)

E:Administration bldg. Record room(1), Store (1)

F:Science lab bldg. Laboratory (1)

Grade Levels	G9-G10		School shift	Double	
No. of students	Grade	G9	G10	G11	G12
	Male	301	332		
	Female	304	368		
	Total	605	700		
No. of sections	(Science/Tech)	11	13		
	(Social science)				
No. of teachers	45	BA/BS 44, TTC 1			
No. of staff	14	Director1, Deputy director2, Admin & finance1, Librarian1, Record officer 1, Secretary1, Store keeper1, Guard3, Janitor3			
Existing facilities	Classroom(13), Laboratory(1), Director's room(1), Deputy director's room(1), Staff room (1), Administration and finance room(1), Record room(1), Secretary's room(1), Tutorial room(1), Store (2)				

【School situation】

About 200 admission applicants were rejected due to the limited capacity this year (2015/16). More than 300 students rent a room for housing in the city.

【Information on existing facilities】

A part of classroom buildings, library room and sport field are shared with the preparatory school. Building C (2-storied) was built by Grant Assistant for Grass-roots Human Security Projects in 2002.



Classroom building



Temporary classroom building



Classroom building by GGP



Inside of a classroom



Inside of a classroom





Inside of a classroom



Administration building



Fence parting the adjacent preparatory school

School Name		Yalen Berhan Lower Secondary School		Secondary school in the catchment of School ID 9	
			A secondary school in the catchment of School ID 9. This school is in Adigrat and situated about 5km away from the requested school site. It is assumed that about 25% of students of this school will be transferred to the requested school upon construction completion.		
			<div>A:Administrati on bldg. Director's room(1), Teachers' room(1), Administration and</div> <div>B:Cafe Cafe</div> <div>C:Tutorial bldg* Tutorial room(1)</div> <div>D:Classroom bldg Classroom(3), Laboratory(1)</div> <div>E:Classroom bldg Classroom(4)</div> <div>F:Classroom bldg Classroom(4)</div> <div>G:Classroom bldg Classroom(3)</div> <div>H:Plasma Satellite receiving room</div> <div>I:Multi- Pedagogical room(1), Sport club purpose bldg. room (1), Student council's room(1), Counseling room(1)</div> <div>J:Classroom bldg Classroom(3)</div> <div>K:Store Store (1)</div> <div>L:Library bldg. Library room(1)</div> <div>M:Tutorial bldg* Tutorial room(1)</div> <div>N:Store Store (1)</div> <div>O:Tutorial bldg* Tutorial room(1)</div> <div>P:ICT bldg. ICT room(2)</div> <div>* Temporary building</div>		
Grade Levels	G9-G10		School shift	Double	
No. of students	Grade	G9	G10	G11	G12
	Male	473	289		
	Female	570	400		
	Total	1,043	689		
No. of sections	(Science/Tech)	20	14		
	(Social science)				
No. of teachers	63	BA/BS 63			
No. of staff	14	Director1, Deputy director2, Admin & financel, Librarian1, Record officer 1, Secretary1, Store keeper1, Guard3, Janitor3			
Existing facilities	Classroom(17), Laboratory(1), Library room(1), ICT room(1), Director s room(1), Teachers' room(1), Administration and finance room(1), Toilet for teachers(1), Cafe(1), Tutorial room<temporary building>(3), Satellite receiving room(1), Pedagogical room(1), Sport club room (1), Student council's room(1), Counseling room(1), Store (3), Toilet				
【School situation】					
All admission applicants were accepted this year(2015/16). About 300 students rent a room for housing in the city. The school generates income by selling trees and renting plots in the compound.					
【Information on existing facilities】					
Many buildings are one-storied. And there are several temporary and pre-fabricated rooms.					



Classroom building



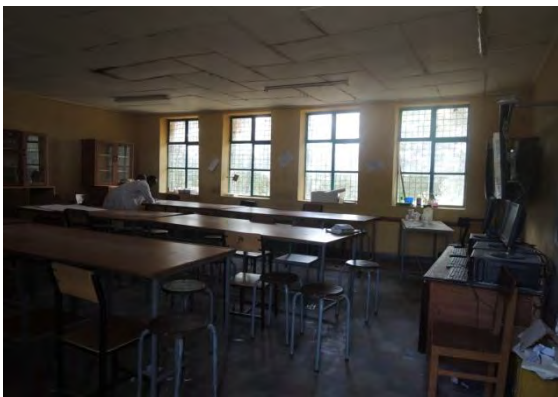
Inside of a classroom



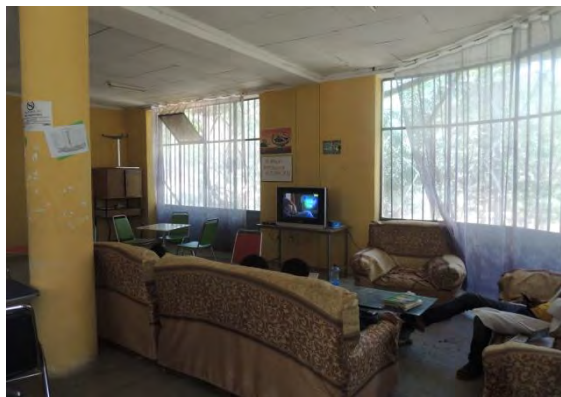
Prefabricated tutorial room building



Inside of a tutorial room



Inside of a laboratory





Cafe



Satellite receiving dish



Large sport field

School Name	Fnote Birha Lower Secondary School		Secondary school in the catchment of School ID 9		
			A secondary school in the catchment of School ID 9. This school is in Adigrat and situated about 1km away from the requested school site, which is the nearest to the site among all existing secondary and preparatory schools. It is assumed that about 40% of students of this school will be transferred to the requested school upon construction completion.		
			A:Administrati on bldg. Administrators' room(1), Director's room(1),Deputy director's room(1), Broadcasting room(1), Store (1),Toilet		
			B:Library bldg. Library room(1),Store (1)		
			C:Classroom bldg.Classroom(12)		
			D:ICT bldg. ICT room(1),Tutorial room(4),Store (1),Store for plasma (1)		
			E:Classroom bldg.Classroom(15), Laboratory(2), Teachers' room (1)		
			F:Cafe Cafe		
Grade Levels	G9-G10		School shift	Double	
No. of students	Grade	G9	G10	G11	G12
	Male	590	620		
	Female	651	696		
	Total	1,241	1,316		
No. of sections	(Science/Tech)	25	25		
	(Social science)				
No. of teachers	96	BA/BS 96			
No. of staff	13	Director1, Deputy director2, Admin & financel, Librarian1, Record officer 1, Secretary1, Store keeper1, Guard3, Janitor2			
Existing facilities	Classroom(27), Laboratory (Physics1, Chemistry1), Library room(1), ICT room(1), Director's room(1), Deputy director's room(1), Teachers' room(1), Broadcasting room(1), Toilet for teachers(1), Tutorial room(4), Store for plasma (1), Store (3), Cafe(1), Toilet				
【School situation】					
All admission applicants were accepted this year(2015/16). No students rent a room for housing, though some students travel about 2 hours (one-way) for schooling.					
【Information on existing facilities】					
Building C is 3-storied and building E is 4-storied. Although the school is located in the center of the city, it has a large sport field.					



Classroom building



Inside of a classroom



ICT room



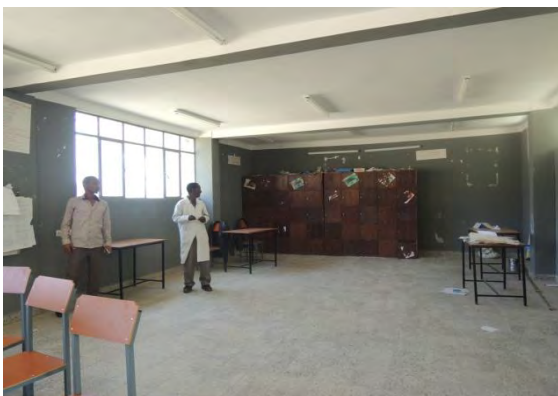
Administration building



Library building



Inside of a library room



Teachers' room



Inside of the Café

10 Senaele

1	General information of the site	ID	10	Requested levels to be covered	G9-10	Latitude/longitude	N 13° 04'22.52" E 39° 42'09.65"
		Site, Woreda, Zone	Senaele, Hintalwojerat, South Eastern Zone			Area	2.5ha
2	Access	Distance & time from Mekelle	80 km	1hr.45min	Distance & time from WEO	41km	1hr.10min
		Distance & time from the main road	37km	1hr.5min	Spur road	unpaved	
		Access road to the site					
3	Site condition	Level difference	Partially gently sloped.		Obstructions, Potential problems	None	
		Land development	Necessary		Soil condition	Silt, sand	
4	Existing Infrastructure	Water	Ground water (Hand pump) / 300m from the site		Electricity	Available/120m from the site	
5	No. of schools in the catchment	Primary school	8 schools		Secondary school	None	
6	Remarks	• Though the site is situated 1-hour travel distance from the main road, the spur road is good. However, construction of the access road is necessary.					



Site location



Site plan



Direction of north from the south west corner of the site



Direction of east from the north west corner of the site



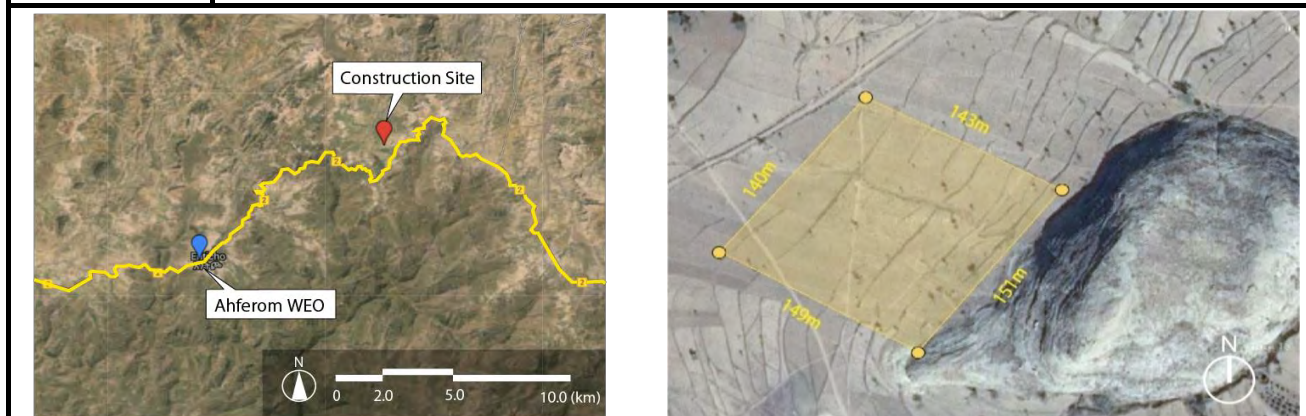
The access road to the site needs repair



1 hr. travel to the site from the main road via the spur road

11 Siero

1	General information of the site	ID	11	Requested levels to be covered	G9-10	Latitude/longitude	N 14° 19'45.70" E 39° 13'29.04"
		Site, Woreda, Zone	Siero, Ahferom, Central Zone			Area	2.2ha
2	Access	Distance & time from Mekelle	165 km	3hr.	Distance & time from WEO	15km	10min
		Distance & time from the main road	1.0km	6min	Spur road	unpaved (There are rocks and the condition is not good)	
		Access road to the site	None/Construction is necessary (15m)				
3	Site condition	Level difference	Flat		Obstructions, Potential problems	Trees	
		Land development	Unnecessary		Soil condition	sand	
4	Existing Infrastructure	Water	Groundwater (Hand pump)/ 100m from the site		Electricity	Available/210m from the site	
5	No. of schools in the catchment	Primary school	8		Secondary school	None	
6	Remarks	<ul style="list-style-type: none">• The site is not far from the main road, but the spur road is not in a good condition and needs repair. Additionally, construction of an access road is necessary.• The site is flat and no land development work is necessary.• A rocky hill exists adjacent to the site.					



Site location	Site plan
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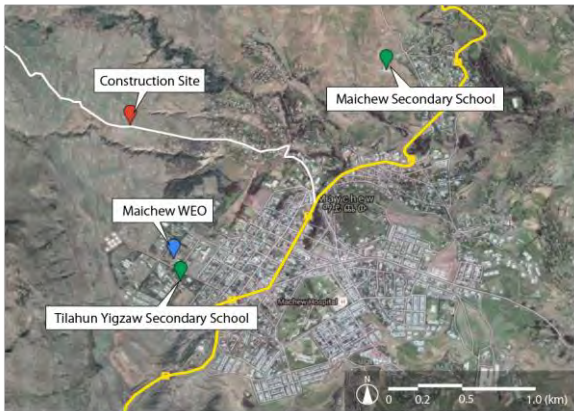
Direction of east from the north west of the site	Direction of north from the south east corner of the site
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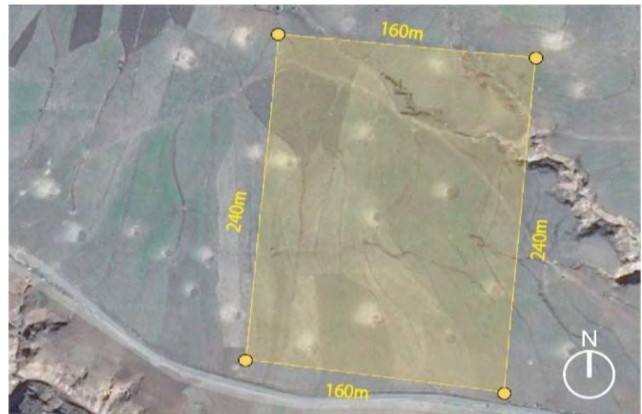
A well located 100m away from the site	Construction of an access road to the site is necessary
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12 Maichew

1	General information of the site	ID	12	Requested levels to be covered	G9-12	Latitude/longitude	N 12° 47'31.25" E 39° 31'44.09"
		Site, Woreda, Zone	Maichew, Maichew, Southern Zone			Area	4.1ha
2	Access	Distance & time from Mekelle	129 km	2hr.20min	Distance & time from WEO	3km	10min
		Distance & time from the main road	1.4km	5min	Spur road	unpaved (Partly under construction)	
		Access road to the site	None/Construction is necessary(15m).				
3	Site condition	Level difference	Partly sloped		Obstructions, Potential problems	A dried river (It flows in the rainy season)	
		Land development	Necessary		Soil condition	black cotton soil	
4	Existing Infrastructure	Water	Not available		Electricity	Not available	
5	No. of schools in the catchment	Primary school	17 schools (2/Maichew,15/Endamohoni)		Secondary school	2 schools: G-9-10	
6	Remarks	<ul style="list-style-type: none">• A part of the spur road is under construction. No problem in access after the construction completion.• There is a dried river, which may flow in the rainy season.• A large part of the site is black cotton soil and used as a farmland.• A part of the site is sloped and needs land development work.					



Site location



Site plan



Direction of the south from the north west corner of the site



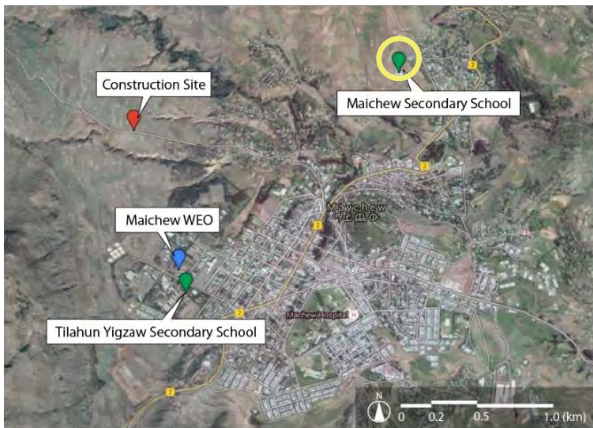

Direction of the south from the north east corner of the site



Land is eroded in the north center of the site



A big valley formed in the north east of the site due to erosion

School Name	Maichew Lower Secondary School			Secondary school in the catchment of School ID 12	
				A secondary school in the catchment of School ID 12. This school is located on a hill in the outskirts of Maichew city and was newly opened in 2015/16. About 3 km away from the requested school site. It is assumed that about 50% of students of this school will be transferred to the requested school upon construction completion.	
				A:Classroom building Classroom(12), ICT room(1), Pedagogical room(1), Library room(1), Director's room(1), Staff room (1), Store (1), Toilet	
Grade Levels	G9-G10		School shift	Double	
No. of students	Grade	G9	G10	G11	G12
	Male	259	334		
	Female	285	261		
	Total	544	595		
No. of sections	(Science/Tech)	11	11		
	(Social science)				
No. of teachers	47	BA/BS 46, TTC 1			
No. of staff	14	Director1, Deputy director2, Admin & financel, Librarian1, Record officer 1, Secretary1, Councelor1, Store keeper1, Guard3, Janitor2			
Existing facilities	Classroom(12), ICT room(1), Pedagogical room(1), Library room(1), Director's room(1), Staff room (1), Store (1), Toilet				
【School situation】					
About 160 admission applicants were rejected due to the limited capacity this year (2015/16). About 500 students rent a room for housing in the city.					
【Information on existing facilities】					
3 Science laboratory buildings are now being constructed. If special classrooms such as ICT room, Pedagogical room are also built, the school management wishes to use all 20 classrooms in the existing classroom buildings as classrooms. There are 2 unused classrooms.					



Classroom building



Classroom



ICT room



Library room (originally built as a classroom)



Administration room (originally built as a classroom)



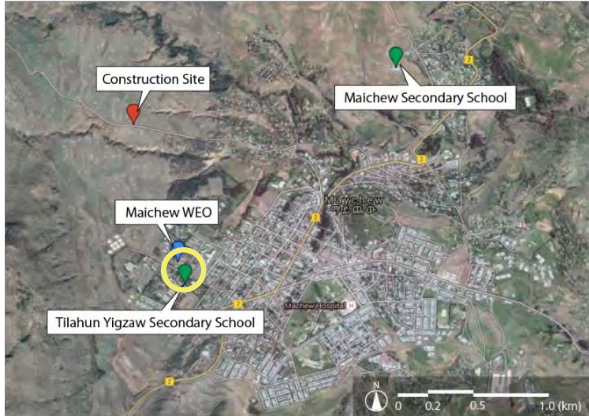

Staff room



2 Laboratories now being constructed



Sport field

School Name		Tilahun Yigzaw Lower Secondary School		Secondary school in the catchment area of school ID 12	
				A secondary school in the catchment of School ID 12. This school is located near the WEO office in Maichew city and about 3 km away from the requested school site. Beside the school exists a technical college. It is assumed that about 50% of students of this school will be transferred to the requested school upon construction completion.	
				<div>A:Administrati on bldg. Director's room(1),Staff room (1),Administration and finance room(1),Record room(1), ICT room for teachers(1)</div> <div>B:Store Store</div> <div>C:Pedagogical room Pedagogical room</div> <div>D:Classroom bldg. Classroom(4)</div> <div>E:Classroom bldg. Classroom(4)</div> <div>F:Classroom bldg. Classroom(4)</div> <div>G:Classroom bldg. Classroom(4)</div> <div>H:ICT bldg. ICT room(2),Plasma room (1), Classroom(1)</div> <div>I:Classroom bldg. Classroom(4)</div> <div>J:Tutorial bldg. Tutorial room(4)</div> <div>K:Tutorial bldg. Tutorial room(4)</div> <div>L:Store Store</div> <div>M:Culture center Culture center</div> <div>N:Science lab bldg. Laboratory(2), ICT room(1),Store (2)</div> <div>O:Library bldg. Library room(1)</div> <div>P:Store Store (1)</div> <div>Q:Hall Hall</div>	
Grade Levels		G9-G10		School shift	Double
No. of students	Grade	G9	G10	G11	G12
	Male	535	461		
	Female	514	524		
	Total	1, 049	985		
No. of sections	(Science/Tech)	22	20		
	(Social science)				
No. of teachers	76	BA/BS 75, TTC 1			
No. of staff	20	Director1,Deputy director 2,Admin & financel,Librarian1,Record officer 1,Secretary1, Store keeper 1,Guard3,Janitor9			
Existing facilities	Classroom(21),Laboratory (Physics1,Chemistry1),Library room(1), ICT room for students (3), ICT room for students (1),Director's room(1),Staff room (1),Administration and finance room(1),Record room(1),Tutorial room/temporary(8), Pedagogical room(1),Plasma center(1),Culture center(1), Store (5),Toilet				
【School situation】					
More than 100 admission applicants were rejected due to the limited capacity this year (2015/16). About 75% students rent a room for housing in the city. The school generates income by selling trees and renting school facilities in the compound.					
【Information on existing facilities】					
Many of the existing buildings are one-storied.					



Classroom building



Inside of a classroom



Tutorial room



Inside of a tutorial room



Science laboratory building



Inside of a laboratory



Hall



Inside of the Hall

13 Gomonge

1	General information of the site	ID	13	Requested levels to be covered	G9-10	Latitude/longitude	N 13° 23'10.00" E 38° 48'14.26"
		Site, Woreda, Zone	Gomonge, Tanqua Abergele, Central Zone			Area	3.2ha
2	Access	Distance & time from Mekelle	125 km	2hr.5min	Distance & time from WEO	45km	50min
		Distance & time from the main road	30km	25min	Spur road	unpaved	
		Access road to the site	None/Construction is necessary (350m)				
3	Site condition	Level difference	Partly sloped		Obstructions, Potential problems	Bedrock, trees	
		Land development	Necessary (incl. removal of stones)		Soil condition	Silt,sand,bedrock	
4	Existing Infrastructure	Water	Not available		Electricity	Available/350m from the site	
5	No. of schools in the catchment	Primary school	11 schools		Secondary school	None	
6	Remarks	<ul style="list-style-type: none">• The spur road is unpaved, but the condition is good. However, construction of an access road is necessary.• There are a number of trees and bedrock, both of which may become obstruction.• No water source nearby the site.					



Site location



Site plan



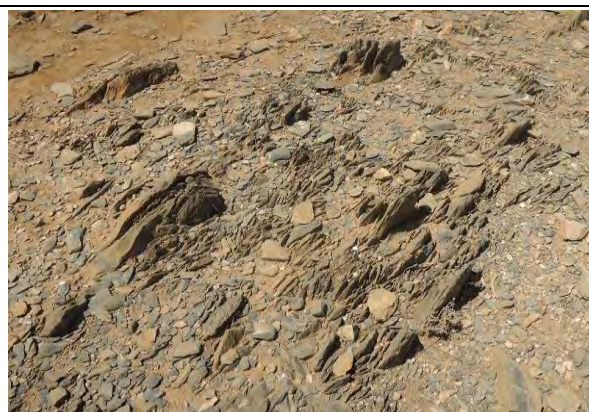
Direction of the north west from the east corner of the site



Direction of the south west from the north corner of the site



Direction of the north east from the west corner of the site



Bedrock exposed to the surface