NOTES:
1. Topographic survey was performed for the purpose of preparing a master plan. Special attention was given to the features surveyed to provide an overall idea of the terrain of the property to prepare the master plan.
2. All features located outside of the property boundary were located using low resolution un-rectified aerial images, and their location as shown on this survey is approximate in nature.
3. Contour interval is 0.3 feet.
4. Area of the surveyed parcel is approximately 29.96 hectares (74.02 acres).
5. Measurements are in feet.

HORIZONTAL CONTROL POINTS:

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<tr>
<th>POINT</th>
<th>NORTHING</th>
<th>EASTING</th>
<th>ELEVATION</th>
<th>DESCRIPTION</th>
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BASE OF DIRECTIONS: DIRECTIONS ARE MAGNETIC BASED UPON A COMPASS READING BETWEEN CONTROL POINTS.

SURVEY EQUIPMENT & DATE: SITE WAS SURVEYED SEPTEMBER 9 - 13, 2014. A TOPCON GPT-3005 TOTAL STATION WAS USED TO COLLECT SITE INFORMATION.

BUILDING KEY:
1. DAVY
2. SWIMMING POOL
3. GUEST HOUSE + KULLA 1
4. KITCHEN/DINING/LAUNDRY
5. BIG BOYS HOSTEL
6. NEW GIRLS HOSTEL
7. SMALL GIRLS HOSTEL
8. NURSERY
9. DIRECTOR'S RESIDENCE
10. SMALL BOYS HOSTEL
11. OLD KINDERGARTEN SCHOOL
12. CARPENTRY (TO BE DEMOLISHED)
13. RESIDENTIAL AREA
14. BIG BOYS HOSTEL
15. VEHICLE STORAGE (TO BE DEMOLISHED)
16. KULLA 2
17. WORKSHOP AREA
18. MAXTON STRONG SCHOOL (MSS) - PRIMARY SCHOOL BLOCK

EXISTING SITE SURVEY
SITE AREA: 74.02 ACRES
1:200
NOTES:

1. INSTALL NEW TWO LOOP SYSTEM WITH 1 BACK-UP WATER STORAGE TANK (ROOF LEVEL) AND 1 SCOUR VALVE PER LOOP.

2. WATER DISTRIBUTION PIPES SHOULD BE 50 mm (PVC CLASS E).

3. IT IS RECOMMENDED THAT THE SCOUR VALVES BE USED EVERY 2 MONTHS (OR WHEN ANY SEEDATION IS SUSPECTED) TO FLUSH THE WATER SYSTEM. THERE SHOULD BE AN OPEN DRAW AT THE SCOUR VALVE LOCATIONS TO LEAD THE INWASHOUT WATER TO A SUITABLE WATER COURSE.

4. 6 MONTHS AFTER THE PIPE SYSTEM IS INSTALLED, INSPECT THE PIPELINE AT SEVERAL DIFFERENT LOCATIONS TO SEE IF THERE IS SEEDATION OCCURRING IN THE PIPE SYSTEM.

SYSTEM FLUSHING PROCEDURE:

1. CLOSE ALL TAPS BEFORE FLUSHING THE WATER SYSTEM.

2. TURN ON THE PUMP TO BEGIN FLUSHING THE SYSTEM. RETAIN A MINIMUM OPERATING PRESSURE IN THE SYSTEM OF 20 PSI.

3. PARTIALLY OPEN THE SCOUR VALVE (TO ACHIEVE 50% FLOW) FOR 7 MINUTES.

4. FULLY OPEN THE SCOUR VALVE (TO ACHIEVE 100% FLOW) FOR 20 MINUTES.

5. PARTIALLY CLOSE THE SCOUR VALVE (TO ACHIEVE 50% FLOW) FOR 7 MINUTES.

6. FULLY CLOSE THE SCOUR VALVE TO COMPLETE THE SYSTEM FLUSH.
LEGEND

BIPU SYSTEM
PVC COLLECTION PIPE
SOAK PIT
BIPU SYSTEM (EXISTING)
SOAK PIT (EXISTING)

WASTEWATER DISTRIBUTION CONCEPT

1. FOR MORE INFORMATION ON THE INSTALLATION OF THE SEPTIC TANKS AND SOAK PITS, REFER TO THE REPORT.