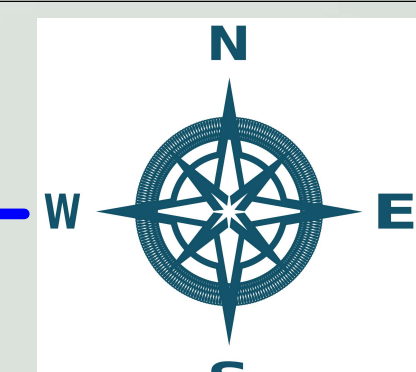


Remarks:



All Dimensions in metric units

▶ THE DRAINAGE SURFACE WATER IN SITE IS DERANGING VIA DOWN-PIPE AND ONTO THE BLUE NILE

▶ THE SURFACE DRAINING DOWN-PIPES USED ARE MADE FROM ZINC WITH A 2" DIM.

▶ THE SEWAGE SYSTEM PIPES ARE MADE FROM PVC WITH A 4" DIM.

▶ MAN-HOLE COVERS ARE MADE FROM IRON.

▶ SURFACE DRAINAGE SLOPE 1:100 AND ON TO THE BLUE NILE

○ Sewage well

□ Septic tank

□ Manhole symbol every 6m

○ Landscape down pipe

← pvc drain pipe 4" diameter

○ Building down pipe distributed every 15 m

— pvc manhole drainage pipe 4"

← Landscape down pipe

■ spaces which requires sanitation sets

▨ Manhole with pump

M.H. no.	Depth (m)	Width (m)	Height (m)	M.H. no.	Depth (m)	Width (m)	Height (m)
1."1."1."1."1"	0.45	0.45	0.45	4"	0.60	0.60	0
2."2."2."2."2"	0.50	0.50	0.60	5"	0.70	0.65	1.
3."3."3."3."3"	0.55	0.55	0.75	6"	0.75	0.70	1.
4."4."4."4."4"	0.60	0.60	0.90	7"	0.80	0.75	1.
5."5."5."5."5"	0.70	0.65	1.05	8"	0.80	0.80	1.
6."6."6."6."6"	0.75	0.70	1.20	9"	0.80	0.80	1.
7."7."7."7."7"	0.80	0.75	1.35	10"	0.80	0.80	1
8."8."8."8."8"	0.80	0.80	1.50	11"	0.80	0.80	1
9."9."9."9."9"	0.80	0.80	1.65	12"	0.80	0.80	2
10."10."10."10."10"	0.80	0.80	1.80	13"	0.80	0.90	2
11."11."11."11."11"	0.80	0.80	1.95	14"	0.80	0.90	2.
12."12."12."12."12"	0.80	0.80	2.10	15"	0.80	0.90	2.
13."13."13."13."13"	0.80	0.90	2.25	16"	0.80	0.90	2.
14."14."14."14."14"	0.80	0.90	2.40	17"	0.80	0.90	2.
15."15."15."15."15"	0.80	0.90	2.55	18"	0.80	0.90	2.
16"	0.80	0.90	2.55	1c.1b	0.45	0.45	0.
17"	0.80	0.90	2.65	2c.2b	0.50	0.50	0
18"	0.80	0.90	2.80	3b	0.55	0.55	0
1"	0.45	0.45	0.45	4b	0.60	0.60	C
2"	0.50	0.50	0.60	5b	0.70	0.65	1
3"	0.55	0.55	0.75	6b	0.75	0.70	1
				7b	0.80	0.75	1.
				8b	0.80	0.80	1

**SITE PLAN : DRAINAGE & SEWAGE SYSTEM**

Sudan University of Science & Technology  
College of Architecture & Planning  
5<sup>th</sup> Year

**PSYCHIATRIC TREATMENT CENTER**

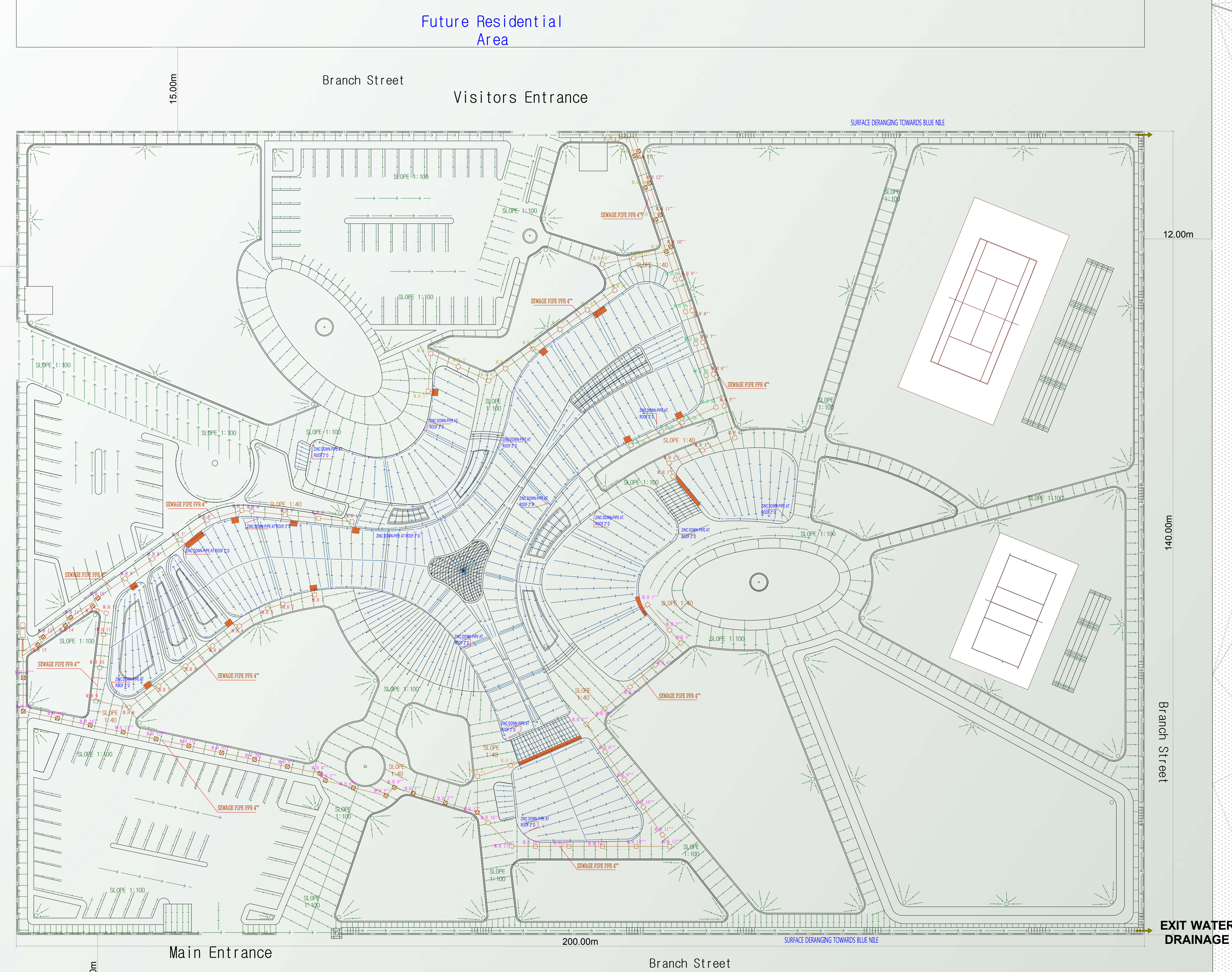
**Working Drawing**

Designed By : Ghada Ahmed Hashim

Supervision : Pr.Saoud Sadig Hassan

Scale : 1:400

Sheet No. 15



**BLUE NILE**

**SITE PLAN : Electric And Water Supply**  
**Scale : 1:400**