

**LEGENDS**

Stormwater drain pipework  
Pressurised Stormwater drain pipework  
Existing Stormwater drainage

Stormwater Manhole

Stormwater stacks (n - stack number ; Ø... - stack diameter)  
Pressurised stacks (n - stack number ; Ø... - stack diameter)  
Ventilation stacks (n - stack number ; Ø... - stack diameter)

Flow Direction

Fg Floor Gully  
Overflow  
Free discharge  
Roof gutter (RG)  
Stormwater lifting station

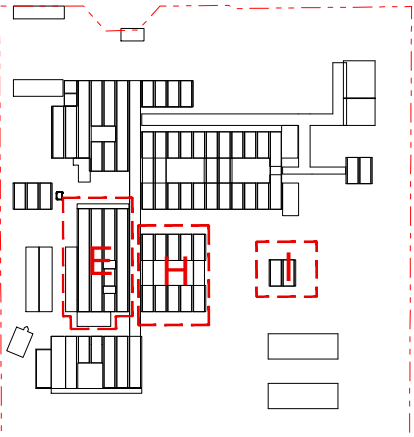
① Ø... ③ i=...% ②  
④

① - Diameter  
② - Slope  
③ - Flow-in direction of arrow  
④ - Material

Stormwater lifting station  
#MH n'... - Name and number  
CL=... - Cover Level of manhole  
IBL=... - Inside Base Level of manhole  
Ø... Ø... / ... - Dimensions in mm  
I.L.I=... - Invert Level of Inlet pipe  
I.L.O=... - Invert Level of Outlet pipe

**MATERIALS**

All gravity drain pipes will be carried out by PVC-U, in accordance with the standard NP EN 1329.  
All compression pipes will be carried out by High density polyethylene pipes (HDPE) PN10 PE80.  
Manhole covers will be made of cast iron. Inside the building covers shall be recessed, to receive the same finishing as the surrounding floor.  
Where trenches depth is such that the drains cover is less than 1.00m and subjected to traffic load, they shall be reinforced according with the proper detail.



REVISION	DATE	IN CHARGE
COMPANY TITLE		
In cooperation with:		
PROJECT NAME		
Rehabilitation of the Saudi Maternity Hospital Kassala Health Citadel Sudan		
TECHNICAL PROJECT Hydraulic STORM WATER DRAINAGE		
PROJECT STATUS DETAILED DESIGN		
DRAWING NAME Roof - Blocks E, H and I		
DATE 2020/03/06	LAYOUT ID PLT.009	
DRAWING SCALE 1/100		
HSD.01.PLT.009		