



health

Department:  
Health  
PROVINCE OF KWAZULU-NATAL

King Edward VIII Hospital

EzaseKhangela

NEWS

Storm Water Project

October 2017

## KEH STORMWATER SOLUTION

R+/-78m project to rescue the 81year old hospital from the verge of infrastructure collapse. The failing hospital drainage system has been causing flooding during heavy rains. The system could not hold the volume of water at one time and therefore flooded whole hospital wards, clinics and passages.

At the inception of the project 185 job opportunities were created, currently there are 148 people working on the project. These numbers are inclusive of staff employed by all contractors involved on the project as well as from EPWP. As this is a big project, 230m of 1.2m diameter pipes and 700m of 300mm to 450mm diameter pipes have been buried underground. A bigger sewer and storm water pipework that can accommodate extra load as a result of hospital growth has been installed.

A number of challenges had been the cause of flooding in the hospital. The water reticulation had no isolation valves, the team installed valves to allow the work in separate buildings without shutting off the water to the whole hospital. Domestic and fire hydrant water were joined together and that was rectified including fixing of lots of leaks due to corroded pipes. The ugly and dangerous cable bridges have been removed, electric cables and data cables have been diverted into underground ducts.

**T**he project has already proven to be a very big assistance to the hospital during recent storm. 1.2m in diameter pipes that are running parallel through the hospital main parking, collecting a large amount of water and reduces the peak flows to the 450mm pipes. The 450 pipes will receive the water and store it in the storm water holding tank situated next to maternity ward. The water will be stored there while the municipal line is battling with the road storm drainage, and only when that gets better that the holding tank will release water to enter the municipal line. Properly constructed drainage system will ensure that there is no water ponding, which has become mosquito breeding areas in the past. Parking will be greatly improved with over 140 new parking bays in the hospital and 100 bays in the Doctors' Quarters.



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# ACKNOWLEDGEMENTS



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