



- NOTES
1. ALL WORK TO COMPLY WITH SANS 10400-NATIONAL BUILDING REGULATION
  2. (a) EXTINGUISHERS TO BE INSTALLED IN ACCORDANCE WITH SANS 0105.  
(b) HOSEREELS TO BE INSTALLED IN ACCORDANCE WITH SANS 543.  
(c) HYDRANTS TO BE INSTALLED IN ACCORDANCE WITH SANS 1128 PART 1.
  3. PORTABLE FIRE EXTINGUISHERS TO BE HUNG ON PURPOSE MADE BOARDS AND LOCATED IN SECURE POSITIONS AS INDICATED ON PLAN AND TO COMPLY WITH TT37.
- FIRE NOTES
- SPECIFICATION HYDRANTS & HOSE REELS:
- PIPEWORK
1. All above ground piping up to and including 150 Ø shall be Medium Quality Black piping to SANS 62/1971.
  2. Piping in excess of 150 Ø shall be Medium Quality Black piping to SANS 719 with 6mm wall thickness.
  3. Below ground pipework shall be as above, however, bitumen coated or, uPVC piping to SANS 966.
- PIPE FITTINGS:
1. Screwed pipe fittings up to and including 150 Ø shall be malleable cast iron to SABS 509/1975 or BS 143/1952.
  2. Flanges up to and including 150 Ø shall be steel plate flanges to SANS 1123/1600/4 or BS 4505/16/4.
  3. Welded pipe fittings larger than 150 Ø to 300 Ø shall be steel butt-welded type to JIS BS 304-72.
  4. Welded flanges larger than 150 Ø to 300 Ø shall be steel plate flanges to SANS 1123/1600/3 or BS 4504/16/3.
- WELDING
1. Welding shall be to BS 2971 - Specification for Arch Welding of carbon steel pipework for carrying fluids without radiography and stress relieving.
- PIPE FIXINGS
1. Purpose made pipe brackets and hangers shall be used to support the weight of the pipe plus fluid.
  2. Hung piping shall be at the following intervals:  
Up to 32 Ø - 1800 mm  
32 Ø to 40 Ø - 2400 mm  
50 Ø to 80 Ø - 3000 mm  
100 Ø to 300 Ø - 4000 mm
- PAINTING
1. All black mild steel piping shall be thoroughly cleaned, degreased and painted with an undercoat, to the Supplier's recommendation (red oxide).
  2. All installed exposed piping shall be painted 2 coats of high quality signal red enamel paint, to the Supplier's recommendation.
- HYDRANTS
1. Shall comply to SANS 1128.
  2. Hydrants shall be of the 65 Ø female coupling type c/w handwheel.
  3. Hydrants provided 1 per 1000square meter
- HOSE REELS
1. Shall comply to SANS 543.
  2. All hose reels shall be 30 m of length c/w 7 Ø aluminium discharge nozzle, handwheel isolating supply valve, roller guide to assist hose reel deployment from reel and union coupling in 28 Ø feed pipe.
- General Notes
1. 72 cubic meters of water reserved for fire purposes
  2. Twin booster connection pressure guage up to 2500kpa
  3. Design site pressure to be 300kpa
  4. Sectional steel tank to be water tight and vermin proof
  5. Fire Fighting Equipment to operate at 30L/min @300kpa for Fire Hose Reels 1200L/min @ 300kpa for Fire Hydrants
  6. Fire Hose reels to cover a diameter of 30m and Fire Hydrants to be 1/1000sq.m

Signature by the Client department

Development Bank of Southern Africa  
Headway Hill 1258 Lever Road,  
Midrand South Africa  
P O Box 1234  
Halfway House 1685  
Tel: +27 11 313 3911  
Email: webmaster@dbsa.org



Revisions

Rev. No	Date	Description	Rev. by

CONSULTANT

Deedscon Consult (Pty) Ltd  
52 Panorama Road  
Rooihuskraal  
Centurion  
0157  
Tel: +27 12 655 0994  
Email: info@deedscon.co.za





PROVINCE OF KWAZULU NATAL  
DEPARTMENT  
OF  
EDUCATION  
HEAD: EDUCATION

PROJECT

DEPARTMENT OF EDUCATION:  
KING CETHSWAYO DISTRICT MUNICIPALITY  
PROPOSAL - UPGRADES & ADDITIONS  
AT NDABAYAKHE PRIMARY SCHOOL

DRAWING DESCRIPTION

THREE CLASS ROOM  
FIRE PROTECTION

PROJECT No.	DRAWING No.	REVISION
1905-04	ME.F002	0

SCALE	DATE	DESIGNED/DRAWN	CHECKED
1:100	Sep 2022	I.T	E.S

NDABAYAKHE PRIMARY SCHOOL