
Appendix 2:

Facility Illustrations



Environmental Management Group (Pty) Ltd

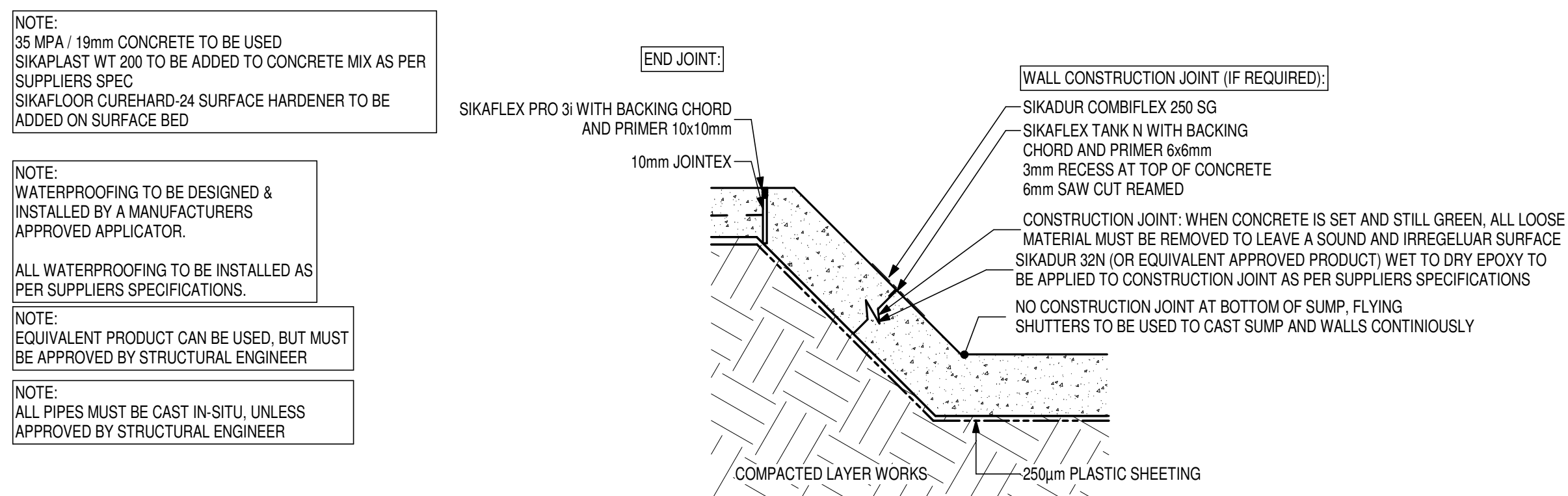
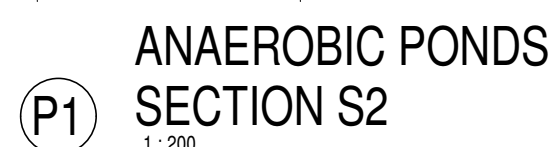
Specialists in Environmental Management Integrating Industry and Infrastructure with the Environment

CODES: DESIGN CODES: SANS 1010-1: The structural use of concrete. SANS 2001: Standardized specification for Civil Engineering Construction. SANS 1018: The General procedures and loadings to be adopted in design of buildings SANS 10162: The structural use of steel SANS 10400: The application of National Building Regulations CONSTRUCTION CODES AND NOTES The contractor shall adhere to the following codes during construction as applicable: SANS 2001 construction works: Part CC1: Concrete Works (Structural) Part CC2: Concrete Works (Minor Works) Part CC3: Installation of Glazing in Window And Door Frames Part CM1: Masonry Walling Part CM2: Strip Footings, Pad Footings and Slab-On-The-Ground Foundations for Masonry Walling Part CS1: Structural Steelwork Part CT1: Structural Timberwork (Flooring) Part CT2: Structural Timberwork (Roofing) Part EM1: Cement Plaster SANS 10155 accuracy in buildings (SANS 2001 CC1 Table 11) Grade II permissible deviation / tolerance shall apply U.N.O. One copy of each of these codes shall be kept on-site and shall be made available to the engineer on request. GENERAL SANS 10155 accuracy in buildings (SANS 2001 CC1 Table 11) Grade II permissible deviation / tolerance shall apply U.N.O. One copy of each of these codes shall be kept on-site and shall be made available to the engineer on request. All civil works to comply with S.A.N.S. 1200 accuracy level II U.N.O Do not scale any drawings, work to figured dimensions only These drawings must be read as part of the contract documents and all discrepancies must be discussed with the engineer without delay. Any discrepancies on the drawings are to be brought to the engineers' attention prior to implementation of any work. The engineer should be notified in good time if he is required on site. All setting-out dimensions and levels must be checked by the contractor prior to any work commencing on-site. Only concrete dimensions are shown on these drawings. Refer to the relevant architect's drawings for finishing details and masonry work. The contractor is to maintain a full set of the latest drawings on site. STRUCTURAL CONCRETE (SANS 10100 - 1:2000) CONCRETE SPECIFICATION Only CEM I cement to be used (SANS S0197-1) Maximum extender to be used is 30% for all concrete, except extenders for surface beds must be limited to 20% Only fly ash to be used as an extender. No GGBS allowed. Maximum water content for walls and slabs = 180 l/m³ Aggregate to be 10mm stone U.N.O Only potable water to be used Sand to be well graded, free of clay with a sand equivalent of more than 85% (AASHTO T 176) (SANS 1083) Aggregate to consist of rock types that will produce low shrinkage and are not Alkali Reactive Design mix to be submitted to BVI for approval before the concrete pour. Minimum concrete cubes curing strength after 28 days for (U.N.O.) Retaining walls 30 MPa Structural foundations 30 MPa Structural columns 30 MPa Suspended slabs, beams & parapets 30 MPa Non-structural foundations 20 MPa Blinding layers 15 MPa Surface beds (with max. 20% extender) 30 MPa Mass concrete (non-structural fill) 10 MPa Mass concrete (structural fill below floor) 25 MPa Bonded or bonded like slabs 30 MPa Shear walls and lift shafts 35 MPa Subsides 20 MPa Water retaining concrete (water tank) 35 MPa PLACEMENT AND POURING (SANS 2001 CC1 4.7.9 – 4.7.10) No concrete pouring allowed without obtaining the written consent of the consulting engineer. No concrete must be poured in rainy conditions or after 1800h without approval. Do not pour concrete after a delay of 60 minutes if mixing water has been added. (SANS 2001 CC1 4.7.10.3) Concrete must not be mixed or poured in temperatures under 2 degrees Celsius on a rising thermometer or under 5 degrees Celsius on a falling thermometer. Thereafter concrete must be kept at a minimum of 10 degrees Celsius and a maximum of 26 degrees Celsius for at least 72 hours. (SANS 2001 CC1 4.7.14) When concrete is poured against existing concrete, existing concrete must be wetted and coated with cement paste (SANS 2001 CC1 Table 7) Concrete shall not be allowed to fall freely through a height of more than 3 m. (SANS 2001 CC1 4.7.10.8) CURING (SANS 2001 CC1 4.7.13) All green concrete must be effectively covered and watered for a minimum period of 10 days (e.g. Hessian for walls and columns and 25mm sand for floor plus water). The use of a curing compound is also allowed. Curing method of concrete to be agreed with the engineer. PRESTRESSING: The support and laying of prestressed material must be in accordance with the supplier's requirements. FINISHES (SANS 2001 CC1 Table 7) Concrete surfaces to be power float finished (U.N.O.) to be confirmed with architects' drawings. All exposed concrete edges to have 25x25mm chamfer (U.N.O.). OFF-SHUTTER (Special off-form): Formwork quality shall be special, smooth and fair in accordance with SANS 2001 CC1 Table 1. Designated joints shall be in the position and in the details shown on the working drawings. Should the contractor wish to incorporate further construction joints or amend the position of those shown to suit his own requirements or technique, this may be allowed provided that all design considerations are met, that the prior approval of the engineer is obtained and that any extra costs are borne by the contractor. Special care shall be taken to ensure that forms are clean and free of all pieces of tying wire, nails and other debris at the time of concreting. The standard of finish shall be such that upon removal of the formwork, no further treatment, other than treatment of bolt holes if required, shall be found necessary to provide a straight, smooth and uniform finish of good quality and consistent colour and texture, free of all honeycombing etc. Any defect shall be made good by either removing and replacing the defective concrete or, in certain instances only, by patching. Removal of formwork as per SANS 2001 CC1 Table 2 REMEDIALS: No "Honey-combing" in concrete should be rectified without inspection and consent of the engineer. Do not cover with plaster or other finishes to hide the defect. All Honey Combing must be chipped open for visual inspection by engineer before repair remedial can be provided. Crack repairs to be confirmed by engineer before repairs commence. CONCRETE COVER ON MAIN REINFORCEMENT (U.N.O.) (To be confirmed with Durability class, see SANS 2001 CC1 Table 3) Slabs all round 30mm Beams all round 30mm Foundation bottom, no blinding 15mm Foundation sides and top 50mm Columns 30mm Ret. Walls - inside face 30mm Ret. Walls - outside face 40mm RC walls 30mm CONCRETE SLABS In slabs with main reinforcement in two directions, the steel spanning the shorter distance must be laid first (U.N.O.). Reinforcement in top of slabs must be supported by stools at 1m² (minimum). BACKPROPPING When suspended floor slabs are poured in a multi-storey building, the following guidelines apply with regard to the propping of the supporting floor slabs: If slabs are poured less than 10 days apart: Wet concrete and construction joint of the slab to be poured must be supported with 100% propping on at least 3 former slabs. If slabs are poured more than 10 days apart: 25% props under the first slab 25% props under the second slab 75% props under the third slab The position of the props on top and bottom of slab must correspond. Notwithstanding the above-mentioned, no shoring may be stripped without the consent of the consulting engineer. Stripping procedures should be agreed with consulting engineer. Props to remain in place for 21 days or as otherwise directed by the engineer. UPWARD CAMBER: Beams and slabs to be poured with an upward camber as follows: Cast-in-place beams & cantilever slabs Span > 150 Other beams & slabs Span > 500 Beam dimensions: Width x depth UP/DOWN STAND. The slab thickness is excluded in the beam depth (U.N.O.), i.e 230x510 DP RC UP-STAND BEAM Width x depth. The slab thickness is included in the beam depth (U.N.O.), i.e 230x510 DP RC BEAM COMPACTION For all material (cut to fill) compacted in layers of 150mm TO 95% MOD. AASHTO (U.N.O.). Final 150mm layers to be compacted to 98% MOD. AASHTO (U.N.O.). If topsoil is collapse sand then top soil to be removed to a depth of 300mm and replaced with an approved material. Soil to be compacted in 150mm LAYERS to a density of 98% MOD. AASHTO (U.N.O.). Refer to drawings to confirm if above is adapted for specific site conditions SURFACE BED All surface beds to be constructed on 250-micron polythene sheeting. Surface beds to be cast in panels not exceeding 10x10m with saw cut and isolation joints as indicated on drawings. A proper construction joint must be formed. Saw cut joints to be cut within 24 hours after pouring of concrete. Alternatively: Surface beds to be cast in a block pattern, of no more than 5x5m. Alternative casting to be approved by the consulting engineer. TYPICAL PANEL CAST SEQUENCE FOUNDATIONS: The final dimension for the foundations are reserved until the excavations are approved. The excavation for foundations must be kept dry and completed where necessary (U.N.O.). All concrete work to be founded on in-situ soil or fill as specified on the construction drawings. When excavating for drainage pits etc, the contractor must take care that the bottom of such excavation does not undermine adjacent footings. See figure below. REINFORCEMENT All bending dimensions for reinforcement are overall, unless shown otherwise on the schedules. Reinforcing steel to SANS S20-1880 as amended. When pouring concrete, reinforcement to be maintained in position and at specified depth by means of approved spacers to ensure correct concrete cover. Measures should be taken to protect reinforcement from rust. All rust must be removed. Excessively corroded rebar may be rejected by the consulting engineer. All rebar to be clean from silt or / rust / dirt or any contaminants. Where main reinforcement in beams is laid in two or more layers (in same direction) space bars must be provided at 1000mm centre-to-centre to support the upper layers. The engineer shall be informed 72 hours in advance when an inspection on the reinforcement fixing is required. All reinforcement is to be inspected by the responsible engineer prior to casting of any concrete. Bars to be bundled and tagged with bar no., dir. no. and member no. before delivery to site. SANAS certificate to be provided to confirm reinforcement compliance (SANS 2001 CC1 4.2.5.3) SERVICES No supply or waste pipes may enter the concrete construction without the consent of the consulting engineer. And no rebar may be cut to make space for ducts and cables (services) PERMISSIBLE DEVIATION ACCEPTANCE CRITERIA ON CONCRETE SLABS In general, tolerances for structural elements to comply with SANS 1200G (Concrete Structural) Clause 6 or SANS 2001 CC1 Table 11. Floor tolerances to fulfil two criteria, flatness and deviation from a prescribed level. FLATNESS: A) Any deviation from flatness of a plane surface will be measured as the maximum deviation of the surface from any straight line of length 3m joining two points on the surface, determined by means of a straight edge, the ends of which are supported on identical blocks of suitable thickness placed over each of the points. (See sketch 1 and 2). B) Any abrupt change in a continuous surface, including a local depression or peak in a floor or wall and any abrupt change caused by a joint in framework will be measured as specified in (A) above. (see sketch 3). The maximum deviation from flatness as measured in (A) and (B) above shall be 5mm. DEVIATION FROM A PRESCRIBED LEVEL (SEE SKETCH 4): The permissible deviation from a prescribed design level on the upper or lower surface unless otherwise specified is +5 /-15mm PLUS the expected elastic and long-term deflection calculated by the engineer (i.e. SPAN/300 (L25mm at midspan for a 7500mm or SPAN/300 for terminal deflections of cantilevers). Quality assurance investigation shall be carried out after removal of shoring, but before removal of props. Props to remain in place for 21 days or as otherwise directed by the engineer. There shall be no limitation as to the number of readings. No deviation from the specification shall be accepted i.e. remedial works will be necessary in non-compliant areas STRUCTURAL STEEL The quality of work and materials must comply with SANS 10162 "the structural use of steel", SANS 1200H "standardized specifications for civil engineering construction chapter 4 - structural steelwork" and SANS 2001 CS1. CONSTRUCTION / MANUFACTURING / ERECTION: Steel structures shall be erected in accordance with SANS 2001 CS1 Steel grade S355JR U.N.O. and the mark must be clearly visible The contractor must submit detailed workshop drawings to the engineer for review prior to manufacture Only sizes of structural members, connections and splices will be checked Final dimensions and the correct fitting of members shall remain the responsibility of the contractor. All dimensions are to be confirmed on site prior to manufacturing of elements. The position of holding down bolts is to be verified on site. All sliding plates must be supplied with graphite grease. Permissible deviations as per SANS 2001 CC1 Table 3 FASTERNS: The members to be class 8.8 bolts with class 8 lock nuts (U.N.O.). (SANS 1700-5-1) Only 2mm oversize bolt holes are permitted Minimum bolt size to be M12 (U.N.O.). WELDING: Welding must be of high quality with minimum defects No notches or cracks shall be accepted The full penetration groove welds shall have contoured fillet reinforcing to provide a smooth flow of stresses. All welds to be continuous and not intermittent welds shall be allowed Intersecting welds running in various directions at any point must be prevented by cutting selected plates so as to remain clear of the intersection Welding must comply with SANS 10044. If gusset plates are used, members must be welded around full circumference of contact area. If not specified, welds must be 6mm fillet welds with 4.2mm throat thickness. Welding machines must be of sufficient capacity to ensure full penetration - 150 amps is regarded the minimum. All welds to be E70 XX electrodes with min weld strength of 480 MPa (SANS 2001 CC1 Table2) Welders certificate must be qualified as per AWS/AWS D1.1:01 (M) (SANS 2001 CC1 5.2) MINIMUM WELD SIZES: THICKNESS OF THICKER PART (mm) MIN FILLET WELD UP TO 12mm 6mm OVER 12mm TO 20mm 8mm OVER 20mm TO 40mm 8mm The structural steel contractor must provide for the following in their tender price: Temporary bracing and struts, if necessary to improve ease of erection and positioning of any steel members. Testing of at least 5 welds if required by the engineer via X-Ray, Magnetic Particle Inspection or dye penetrant inspection. (SANS 2001 CC1 5.3.4) Workshop drawings (SANS 1200H 5.1.2 refers). CORROSION PROTECTION: All structural steel must be painted directly after manufacture, in accordance with contract specifications. Damage to paintwork must be touch-up after completion of structural steelwork. Corrosion protection to all external steel elements for environmental class C3 industrial for 5-year maintenance period in accordance with ISO 1584 part 1 U.N.O. TOC with engineer If manufactured structural steelwork has to be stored, measures should be taken to avoid rusting. No rusted steel may be erected. Bolt anchoring and grout: If grout is specified, use PRO-STRUCT S10MCO five star grout (U.N.O.) If an epoxy grout is specified, use PRO-STRUCT S10 epoxy grout (U.N.O.) If an epoxy is specified, use PRO-STRUCT 617 general epoxy adhesive (U.N.O.) If a chemical anchor is specified, use HULTI HW with grade 8.8 has rods (U.N.O.) Use PRO-STRUCT 617 general purpose epoxy adhesive for filling of dowel bars. Dowel bars: holes drilled for dowels to be 1/25 to 1.5 x dowel bar diameter (U.N.O.): Y10 DOWELS = ø14mm HOLE Y12 DOWELS = ø18mm HOLE Y16 DOWELS = ø24mm HOLE Y20 DOWELS = ø30mm HOLE Y25 DOWELS = ø38mm HOLE Y32 DOWELS = ø44mm HOLE WATER-RETAINING STRUCTURES AND SOIL-RETAINING CONCRETE WALLS DESIGN DETAILS The following design codes are applicable: Water retaining structures BS 8007 / SANS 10100-3 Reinforced concrete BS 8110 Loadings SANS 10160 The following loadings are used: Density of backfill material = 1800kg/m³ Internal angle of friction = 30° Loss of mechanical equipment to be supplied by mechanical contractor THE CONTRACTOR SHALL ADHERE TO THE FOLLOWING CODES DURING CONSTRUCTION AS APPLICABLE. SANS 2001 CONSTRUCTION WORKS: PART CC1: Concrete Works (Structural) PART CC2: Concrete Works (Minor Works) PART CM1: Masonry Walling PART CM2: Strip Footings, Pad Footings and Slab-On-The-Ground Foundations for Masonry Walling PART CS1: Structural Steelwork PART EM1: Cement Plaster SANS 10155 accuracy in buildings. GRADE I permissible deviation/tolerance shall apply unless otherwise noted. One copy of each of these codes shall be kept at site and shall be made available to the engineer on request. SPECIFICATION FOR MATERIALS Concrete and bedding to be class 20 MPa/10mm concrete U.N.O. Binding and mass concrete to be class 15MPa/19mm concrete. All other concrete to be class 35MPa/19mm U.N.O. No fines concrete-use class HF-10 (No fines concrete with 10mm nominal size aggregate) – the volume of aggregate for each 50kg of cement is 0.3m³ and the mix shall not contain more than 20 l of water per 50kg cement. (SANS 2001 CC1 4.7.8.4.2) course and fine aggregate for all concrete shall be of dolomitic origin as specified unless indicated differently and must be tested for Alkal Reactivity Reinforcement for concrete shall comply with SABS 820 Mix steel yield stress = 520MPa High tensile steel yield stress = 450MPa CONCRETE MIX DESIGN SPECIFICATION MAX W/C = 0.5 FOR CEM I-FLY ASH CEMENT MAX 30% FLY ASH CONCRETE - 35 MPa/19mm Admixtures must be noted CONCRETE TESTS With regards to records, the following tests are also required additionally: SANS 201:2008, Grading/Sieve Analysis Of Aggregate SANS S844:2014 Relative Density Of Aggregate SANS S845:2008 Bulk Density SANS S860:1 Slump Test SANS S863 Compressive Strength Of Hardened Concrete SANS 3001:0203 Determination Of The Moisture Content By Oven-Drying DURABILITY TESTS: Oxygen Permeability Chloride Conductivity Test Water Sorptivity Test Aggregate must comply with SANS 1083. Small and large aggregates tests: SANS S852: Organic Material Test SANS S843 Water Absorption Test, Water Absorption <3%, Most SA Aggregates Are <1% Large aggregate strength tests: SANS S841 Aggregate Crushing Value (ACV) Test, <30% Pass SANS S842 10 TACT Value Test, force required to displace 10% fines of the total sample, that will through 2.36mm sieve, >70 kN pass Aggregates must not be alkali-reactive and tested to confirm CONSTRUCTION Cover to reinforcement = 40mm U.S.O All visible corners shall be chamfered 25x25mm U.N.O. Binding under all reinforced concrete structures shall be 75mm thick class 15MPa/19mm concrete U.N.O. Formed concrete surface finished shall be as specified in SANS 2001 Concrete surface finishes shall be as specified in SANS 2001 Put bars for water retaining structures shall not be permitted Where gips pass through walls of water retaining structures they shall be cast into the wall simultaneously with the casting of the wall. Concrete shall not be allowed to fall freely through a height of more than 3m. BRICKWORK (SANS 10164-1) All load-bearing brickwork to be in accordance with SANS 10164 and installed as per SANS 10400-K. Loadbearing walls to be a minimum 220mm wide with a minimum compressive strength of the masonry units to be 14 MPa, with class II Mortar. 275mm DPM on the towed mortar between all RC slabs and masonry. Openings in load-bearing walls to be spanned by prestressed lintels supplied by contractor with min support of 300mm on load bearing wall. Max 2.4m span for present lintels with minimum course height of 425mm. All non-load-bearing brickwork to receive joints or softboard between slab soffits and top of walls. Plaster joint between slabs/corke & brickwork to be cut through the plaster to create a clear movement joint. Joints/softboard to be installed between RC corke & brickwork No brickwork to continue over structural expansion joints Seismic requirement: all brickwork shall be tied to concrete with galvanised hoop iron ties every 4th course Carvy Walls: To be filled with mass concrete below surface bed level and typ. 600mm below RC slabs/beams With min 3.15mm thick galvanised butterfly wall tie spaced at 420mm c/c and 900mm horizontally (2.5 ties / m²) and staggered with min. Overlap of 50mm on mortar Weepholes installed in the external cavity wall above DPC to prevent moisture build up/spaced at max. 1m c/c 2mm brickforce to be placed in brick walls every: Brick course in bond/altern walls. Brick course in internal walls for the first 3 brick courses, then Every 10th brick course. Third brick course for external brick courses. Brick course for the last 4 brick courses below roof level. Brick course for 5 courses below all windows & 5 courses above all Windows & doors - to extend 800mm on both sides of openings. Vertical Control / expansion joints to comply with SANS 10400-K: Max 7.5m c/c for walls (U.N.O.) As specified by SANS 10400-K:2011 ed 3 Table 19 Wall differenters / lateral support to comply with SANS 10400-K: Generally 5m c/c for 230mm walls (U.N.O) above 3.3m in height bc Generally 3m c/c for 110mm walls (U.N.O) above 3.3m in height bc Horizontal movement joint: To be every floor level, max 3.3m (sealing angle). Engineers to be consulted with regards to additional brickwork requirements. NOTES / LEGEND GENERAL THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL MATERIALS AND WORKMANSHIP CONFORM WITH THE DETAILS AND SPECIFICATIONS SHOWN ON THIS DRAWING, AND ALL RELEVANT SABS SPECIFICATIONS, IRRESPECTIVE OF WHETHER THE ENGINEER HAS INSPECTED THE WORKS ON SITE OR NOT. 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RELOCATION OF THE EXISTING WARRENTON WWTW AND RELATED BULK INFRASTRUCTURE

DRAWING TITLE

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