

NOTES

- THE CONTRACTOR SHALL ENSURE THAT WATERPROOFING MATERIALS ARE NOT DAMAGED DURING BACKFILLING OPERATIONS AND FIXING OF STEEL. REPLACING OF MATERIAL DUE TO DAMAGE FOR CONTRACTOR'S COST. ALL STRUCTURAL DRAWINGS TO BE READ IN JUNCTION WITH RELEVANT ARCHITECTURAL, MECHANICAL &
- ELECTRICAL ENGINEERS DRAWINGS AND THE SPECIFICATIONS IN THE BILL OF QUANTITIES. ANY ERRORS, OMISSIONS & DISCREPANCIES TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.
 WHERE CONFLICTING SPECIFICATIONS BETWEEN THE DRAWINGS & BILL OF QUANTITIES OCCUR, THE DRAWING SPECIFICATION WILL BE TAKE PREFERENCE OVER THE SPECIFICATION IN THE BILL OF QUANTITIES.
- ALL EXCAVATION MUST BE INSPECTED AND APPROVED BY THE ENGINEERS BEFORE PLACING OF ANY CONCRETE OUNDATION, BLINDING, WATERPROOFING OR GEOFABRIC MEMBRANE
- DEPTH REQUIRED BY THE ENGINEER, TO BE FILLED WITH MASS CONCRETE (10MPa/19mm) AT CONTRACTORS ALL EARTHWORKS SHALL BE IN ACCORDANCE WITH SABS 1200 D - 1982 INCLUDING THE LATEST REVISIONS.
- ALL BACKFILL TO SURFACE BEDS AND BEHIND RETAINING WALLS TO BE COMPACTED TO 98% MOD ASSHTO DENSITY.

 - THE MINIMUM CRUSHING STRENGTH OF ALL LOAD BEARING BRICKWORK SHALL BE 14 MPa.
 THE MINIMUM CRUSHING STRENGTH OF ALL LOAD BEARING BLOCK WORK SHALL BE 7 MPa.
 THE MINIMUM CRUSHING STRENGTH OF MORTAR SHALL BE AS FOR CLASS II MORTAR IN ACCORDANCE WITH TABLE
 - (ii) LOAD BEARING BLOCKWORK SHALL BE REINFORCED WITH APPROVED BRICKFORCE
- (iii) IN ADDITION, BRICK FORCE IS REQUIRED IN EVERY COURSE FOR THE FIRST COURSES ON TOP OF THE FOUNDATIONS & SLABS AS WELL AS OVER DOOR AND WINDOW OPENINGS
- ALL BRICKWORK OR BLOCKWORK SHOWN ON ENGINEERS DRAWINGS IS LOAD BEARING UNLESS OTHERWISE SEE ARCHITECT'S DRAWINGS FOR GENERAL LAYOUT OF BRICKWORK/BLOCKWORK. SETTING OUT OF ALL BRICKWORK
- TO BE DONE FROM ARCHITECTS DRAWINGS.

 ALL BRICK ANCHORS AND STRAPS SHALL BE HOT-DIP GALVANISED. ALL WALL TIES TO BE POSSI TIES.
- NON-LOAD BEARING BRICKWORK / BLOCKWORK MAY NOT BE BUILT CLOSER THAN 20mm FROM THE SOFFITS AND SIDES OF BEAMS AND SLABS UNLESS OTHERWISE SHOWN. REFER TO ARCHITECT'S DRAWINGS FOR POSITIONS OF EXPANSION JOINTS IN BRICKWORK /
- WALL TIES FOR CAVITY WALLS TO COMPLY WITH REQUIREMENTS OF SABS 0400 SUBJECT TO THE PROVISION THAT
- TIES OF THE SINGLE WIRE TYPE SHALL NOT BE USED.

 ALL BRICKWORK, BLOCKWORK, ANCHORS, WALL TIES AND STRAPS SHALL BE IN ACCORDANCE WITH SABS 0400 1990
- AND SABS 0164-1980 INCLUDING THE LATEST REVISIONS. ALL BRICKWORK SHALL BE FIXED TO CONCRETE & STEEL COLUMNS BY MEANS OF HOOP IRON EVERY FOURTH
- ALL BLOCKWORK SHALL BE FIXED TO CONCRETE & STEEL COLUMN BY MEANS OF HOOP IRON EVERY SECOND

- 30MPa/ 19mm 30MPa/ 19mm
- 25MPa/19mm 25MPa/ 19mm
- CURING OF CONCRETE SHALL BE CARRIED OUT STRICTLY IN ACCORDANCE WITH SABS 1200 G
 ALL CONCRETE WORK SHALL COMPLY WITH THE REQUIREMENTS OF SABS 1200G
 100mm KICKERS FOR COLUMNS ARE TO BE ALLOWED FOR, THEY SHALL BE CAST WITH THE SAME STRENGTH AS THE
- STRIPPING TIMES OF SHUTTERING AND PROPPING SHALL BE IN ACCORDANCE WITH SABS 1200 G
 ALL COLUMNS ARE PLACED SYMMETRICALLY ON GRID LINES UNLESS OTHERWISE SHOWN.
 CONCRETE TOLERANCE TO BE DEGREE OF ACCURACY NO. II AS SPECIFIED IN SABS 1200 G, UNLESS OTHERWISE
- **ROUGH SHUTTER**
- ROUGH SHUTTER SMOOTH OFF-SHUTTER SMOOTH SHUTTER - SOFFITS OF LEVEL 1 & 2
- A 20 x 20mm CHAMFER TO ALL EXPOSED CORNERS; ie CORNERS THAT WITH BE VISIBLE AT COMPLETION OF WORKS, NOT BUILT INTO BRICKWORK AND PLASTERED
- ALL CONCRETE DRAWINGS TO BE READ IN JUNCTION WITH THE RELEVANT ARCHITECTURAL AND STRUCTURAL DRAWINGS AND ANY DISCREPANCY TO BE BROUGHT TO THE ATTENTION OF THE ENGINNEER.
- PROVIDE 10mm JOINTEX OR SIMILAR APPROVED JOINT FILLER AROUND ALL CONCRETE COLUMNS AND AGAINST BRICK WALLS, AFTER CONCRETE HAS SET, JOINTEX TO BE RAKED OUT 10mm DEEP AND SEALED WITH AN APPROVED
- JOINT SEALANT. SEE RELEVANT DRAWINGS FOR DETAILS ISOLATION JOINTS. SAW-CUT JOINTS TO BE DONE AS SOON AS CONCRETE IS FIRM ENOUGH NOT DAMAGE THE EDGES. USUALLY
- BETWEEN 6 TO 16 HOURS

 SEE RELEVANT DRAWINGS FOR DETAILS OF SAW-CUT AND CONSTRUCTION JOINTS.
- METHOD STATEMENT FOR POURING OF SURFACE BED PANELS TO BE APPROVED BY THE ENGINEER. SURFACE BEDS ARE TO BE WOOD FLOAT FINISHED UNLESS OTHERWISE SPECIFIED.
- THE CONTRACTOR SHALL INSPECT AND APPROVE THE FIXED REINFORCEMENT BEFORE THE ENGINEER IS NOTIFIED. ALL REINFORCEMENT SHALL BE INSPECTED AND APPROVED BY THE ENGINEER BEFORE CASTING OF CONCRETE MAY COMMENCE.
- BENDING OF REINFORCEMENT SHALL BE FIXED TO COMPLY WITH THE TOLERANCES AS SPECIFIED IN SABS 1200 G AND/ OR THE PROJECT SPECIFICATION.

 NO HEAT TREATMENT OR CUTTING OF STEEL WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER SHALL BE ALLOWED.
- MINIMUM CONCRETE COVER TO REINFORCING TO BE ALLOWED FOR TO BE AS FOLLOWS IF NOT STATED OTHERWISE SPECIFIED.
- 50mm EARTH FACE 30mm INSIDE FACE
- 40mm BASEMENTS 40mm SOFFITS OF BASEMENT
- - REVISIONS

RECOMMENDED BY DATE

DATE

DESIGNED DRAWN

CHECKED Engineer

CLIENT APP. DATE APRIL 2019

SCALE

AS SHOWN

CLIENT

MSINGA LOCAL MUNICIPALITY



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CONTRACT

MAGOBELA GRAVEL RDAD

crossing 3 PORTAL CULVERT GENERAL ARRANGEMENTS SECTIONS

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REV No 00