

Surface Bed and Layerworks Raft foundation to be laid on NHBRC approved damp proof membrane and power floated.

Chromadek roof sheeting over sisalation on 38x38 battens on steel roof trusses to manufacturers specification. Roof certificate required from suppliers engineer.

Material below surface bed to be treated with an approved

ant poison and compacted using mechanical means.

Facias and bargeboards to be nuteck fibre cement. Blockwork to be reinforced with brickforce as per NHBRC

specifications. External M140 walls to be plastered and painted. Internal M90 walls to be flush jointed and bagged. All external openings to have block lintels over.

External solid hard wood door with 3 lever lockset primed Internal doors hollow core masonite with 2 lever lockset

primed and painted. All door frames to be cliscoe galvanised steel. (External - 1mm thick steel, Internal - 0.8mm thick steel)

 All frames to be Cliscoe galvanised steel window frames (1.2mm thick steel). Glazing to comply with part N of SANS 10400. Clear throughout except bathroom which is to have pacific obscure glazing.

Safety glass to windows to comply with NN3 of SANS 10400

all waste pipes and drains to be accessible along their entire Provide inspection eyes at all drains, bends and junctions at

max 25m along straight runs.

Rainwater Goods

Cleaning eyes to be provided at all bends and junctions of waste pipes. Waste to be fitted with 64mm reseal traps. Water connections to fittings - 15mm dia to whb, wc and showers 20mm dia to geysers. All vents pipes to discharge into external air.

 Ex cills to be plastered and painted to falls with waterproofing . Internal cills to be plastered and painted.

- 100mm seamless pvc gutters discharge to 75mm dai. pvc downpipes.

ND4

NO OF: TOTAL = 2

GLAZING FINISH

CLEAR 4mm THICK

FIXED PANEL TO BE

NC4

NO OF: TOTAL = 0

GLAZING FINISH

SIDE HUNG AND

SAFETY GLASS

CLEAR 4mm THICK

FIXED PANEL TO BE

WINDOW

GALVANISED STEEL

SIDE HUNG AND

SAFETY GLASS

WINDOW

GALVANISED STEEL

BUILDING NOTES:

REINFORCEMENT AND INSTALLATION TO BE INSPECTED BY THE ENGINEER - 48 HOUR'S NOTICE REQUIRED PRIOR. NO CONCRETE TO BE CAST WITHOUT WRITTEN APPROVAL & INSPECTION OF REBAR BY ENGINEER.

A MINIMUM OF 3 CONCRETE CUBES PER FOUNDATION ARE TO BE MANUFACTURED AND TESTED IN ACCORDANCE WITH STANDARD SPECIFICATIONS. AL 3 CUBES ARE TO BE CRUSHED AT 28 DAYS TO VERIFY CONCRETE COMPRESSIVE STRENGTH. SHOULD THE CONTRACTOR FAIL TO UNDERTAKE THE ABOVE, RETROSPECTIVE TESTING TO CONFIRM THE CONCRETE STRENGTH OF FOUNDATIONS MAY BE REQUIRED BY THE ENGINEER WHICH WILL BE AT THE CONTRACTOR'S EXPENSE.

POSITION OF ALL JOINTS TO BE AS SHOWN AND APPROVED BY THE ENGINEER.

CONCRETE STRENGTHS @ 28 DAYS: RAFT FOUNDATION & SLAB 25 MPa APRON SLAB 25 MPa INFILL CONCRETE 25 MPa

COVER TO STEEL REINFORCING: REINFORCEMENT IN LINTEL BLOCKS AND INFILL CORES TO HAVE MINIMUM COVER OF 30mm OTHER ELEMENTS AS INDICATED

. ALL SHARP EXPOSED EDGES TO BE CHAMFERED 25 x 25mm.

ALL CONCRETE ELEMENTS TO BE CURED FOR MINIMUM OF 7 DAYS.

BY APPROVED METHODS. FOUNDATIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE REQUIREMENTS OF SANS 2001-CM2 AND IN SUCH A MANNER THE BED

JOINT THICKNESS OF THE FIRST MASONRY COURSE ABOVE FOUNDATION IS NOT LESS THAN 5mm AND NOT GREATER THAN 40mm HORIZONTAL DAMP-PROOF COURSES SHALL BE LAID WITH MORTAR ABOVE & BELOW. DAMP-PROOF COURSES SHALL BE LAID TO THE FULL

THICKNESS OF THE WALL & LAPPED AT LEAST 150mm AT ALL JOINTS IN

THE RUNNING LENGTH AT THE ENDS, INTERSECTIONS & ANGLES. THE DPC SHALL OVERLAP THE FULL WIDTH OF THE WALL. ALL HORIZONTAL DPC SHALL PROTRUDE 5mm FROM EXTERNAL FACE OF WALL. 10. THE AVERAGE COMPRESSIVE STRENGTH OF HOLLOW AND SOLID

RESPECTIVELY. 11. THE MASS OF ROOF COVERINGS MUST NOT EXCEED 80kg/m².

12. MORTAR MUST BE MINIMUM CLASS II MORTAR.

MASONRY UNIT MUST NOT BE LESS THAN 3MPa AND 4MPa

13. LAPPING OF ROD REINFORCEMENT SHALL NOT BE PERMITTED. 14. THE LAP LENGTH OF BRICKFORCE SHALL NOT BE LESS THAN 300mm.

15. HOLES AND SLEEVES SHALL, AS FAR AS POSSIBLE BE PROVIDED DURING CONSTRUCTION TO ACCOMMODATE SERVICES.

16. CONDUITS AND PIPES SHALL, AS FAR AS POSSIBLE BE LOCATED WITHIN THE CORES OF THE HOLLOW MASONRY CONSTRUCTION.

7. CHASES IN WALLS OF HOLLOW UNIT CONSTRUCTION SHALL, AS FAR AS POSSIBLE BE AVOIDED. WHERE UNAVOIDABLE, SUCH CHASES SHALL EITHER BE NO DEEPER THAN 15mm OR THE CORE SHALL BE SOLIDLY FILLED WITH INFILL CONCRETE

18. ROOF ANCHORS SHALL BE INSTALLED IN THE MASONRY AS WORK PROCEEDS. SUCH ANCHORS SHALL BE LOCATED IN WALLS AT EVENLY SPACED CENTERS WHEREVER ROOF TRUSSES, RAFTER OR PURLIN BEAMS ARE LOCATED. ROOF ANCHORS SHALL BE OF SUFFICIENT LENGTH TO ADEQUATELY SECURE ROOF TRUSSES AND RAFTERS.

HOLLOW UNITS SHALL BE LAID WITH THE THICKER SHELL UPPERMOST AND SHALL BE SHELL BEDDED, HORIZONTALLY AND VERTICALLY AS PER SANS 2001-CM1.

20. INTERSECTING MASONRY SHALL BE BONDED BY MEANS OF A FULL MASONRY BOND OR SHALL BE TIED TO THE INTERSECTING WALLS BY MEANS OF GALVANISED HOOP IRON STRAPS AS PER THE DETAIL IN SANS 2001-CM1.

NE4

NO OF: TOTAL = 1

GALVANISED STEEL

GLAZING FINISH

CLEAR 4mm THICK

FIXED PANEL TO BE

SIDE HUNG AND

SAFETY GLASS

WINDOW

NC2

NO OF: TOTAL = 2

GLAZING FINISH

SIDE HUNG AND

SAFETY GLASS

CLEAR 4mm THICK

FIXED PANEL TO BE

NE1

NO OF: TOTAL = 1

GLAZING FINISH

CLEAR 4mm THICK

FIXED PANEL TO BE

SIDE HUNG AND

SAFETY GLASS

WINDOW

GALVANISED STEEL

WINDOW

GALVANISED STEEL

21. LINTELS SHALL BE SUITABLY SUPPORTED FOR A PERIOD OF NOT LESS THAN 7 DAYS AFTER COMPLETION.

THE CONTRACTOR IS RESPONSIBLE FOR CORRECT SETTING OUT OF BUILDINGS ON SITE WITH PARTICULAR REFERENCE TO BOUNDARIES AND

GENERAL NOTES:

BUILDING LINES. DO NOT SCALE, USE FIGURED DIMENSIONS ONLY.

ALL WORK TO BE CONSTRUCTED IN ACCORDANCE

RELEVANT SECTIONS OF SANS 1200, SANS 2100 AND

ALL DIMENSIONS AND LEVELS TO BE CHECKED ON

WITH THE PROJECT SPECIFICATIONS, THE

DISCREPANCIES TO BE REPORTED TO THE

ENGINEER BEFORE COMMENCEMENT OF WORK.

THE NATIONAL BUILDING REGULATIONS.

SITE PRIOR TO CONSTRUCTION. ANY

THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE RELEVANT ARCHITECTURAL, CIVIL, STRUCTURAL OR OTHER CONSTRUCTION RELATED DRAWINGS. WHERE DISCREPANCIES IN DETAILS ON DRAWINGS ARE ENCOUNTERED, THESE MUST BE BROUGHT TO THE ATTENTION OF THE ENGINEER

THE CONTRACTOR IS TO IDENTIFY AND EXPOSE, WHERE RELEVANT, ALL UNDERGROUND SERVICES

PRIOR TO COMMENCING THE AFFECTED WORK.

ON SITE. ALL LEVELS INDICATED ARE STRUCTURAL AND NOT

FINISHED LEVELS, UNLESS OTHERWISE NOTED. THE CONTRACTOR IS TO ALLOW A MINIMUM OF 7

WORKING DAYS FOR ANY FABRICATION APPROVAL, UNLESS OTHERWISE NOTED.

CONTRACTOR TO PROVIDE CONSTRUCTION METHODOLOGY FOR APPROVAL BY ENGINEER.

ALL WORK TO BE CARRIED OUT IN ACCORDANCE WITH THE ENVIRONMENTAL AND OCCUPATIONAL HEALTH AND SAFETY ACT, (LATEST REVISION) AND

THE CONSTRUCTION REGULATIONS.

THE MAIN CONTRACTOR IS TO ENSURE THAT A SUITABLY QUALIFIED PERSON, APPROVED BY THE SOUTH AFRICAN QUALIFICATION AUTHORITY SUPERVISES AND APPROVES ALL ASPECTS OF THE

REQUIREMENTS OF THE OCCUPATIONAL HEALTH AND SAFETY ACT, LATEST REVISION. ALL TEMPORARY WORKS TO BE DESIGNED. DETAILED, SUPERVISED AND CERTIFIED BY A

SUITABLY QUALIFIED PROFESSIONAL ENGINEER AS DEFINED IN THE OHS ACT. THE WORKS WILL BE INSPECTED FROM TIME TO

TIME BY THE CONSULTING ENGINEER TO ASCERTAIN THAT THE CONTRACTOR IS CARRYING OUT THE WORK IN GENERAL CONFORMITY WITH THE ENGINEERING DRAWINGS AND DOCUMENTS. SUCH INSPECTIONS ARE NOT CARRIED OUT FOR THE BENEFIT OF THE CONTRACTOR, AND DO NOT RELIEVE HIM OF THE RESPONSIBILITY FOR THE PROPER CONSTRUCTION OF THE WORKS IN ACCORDANCE WITH THE ENGINEERING DRAWINGS, DOCUMENTS & GOOD BUILDING PRACTICE.

DESIGN AND DETAILS WILL BE PERMITTED WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER. ANY DISCREPANCY FOUND WILL BE REMOVED AND RECONSTRUCTED AT THE CONTRACTORS EXPENSE **ABBREVIATIONS**

NO VARIATIONS WHATSOEVER TO THE ENGINEER'S

• TOC - TOP OF CONCRETE • THK - THICK IJ - ISOLATION JOINT

> MAKHAOTSE, NARASIMULU & ASSOCIATES (Pty) Ltd Consulting Civil Engineers and Project Managers Reg No. 2009/010089/07

> > P.O. Box 28580

Haymarket

Pietermaritzburg 3201 Pietermaritzburg 3200 Tel (033) 346 2835 e-mail: pmb@mna-sa.co.za

Fax (033) 346 2328 FOR CONSTRUCTION

SIGNED BY

PROF. REG. NO.

SIGNATURE

84 Cleland Road

A |20-05-'21 | FOR APPROVAL DG NM DESCRIPTION BY CHK

DRG. NO.



CLIENT NAME

CLIENT LOGO

NALA LOCAL MUNICIPALITY

PROJECT TITLE

REFURBISHMENT OF **KGOTSONG SPORTS FACILITY**

DRAWING TITLE

CARETAKER HOUSE PLAN LAYOUT 57.8m²

DATE RESPONSIBLE PERSON DESIGNED | D GOVENDER 19-05-2021 19-05-2021 CHECKED N MOODLEY 19-05-2021 DRAWN D GOVENDER 19-05-2021 SHEET SIZE A0 REVISION

CHECKED | N MOODLEY SCALES AS NOTED DRAWING NO. WP2419-MNA-FC-ST-002