<table>
<thead>
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<th>Anexo I: Projecto de construção da aldeia de reassentamento</th>
</tr>
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<td>Rev. 1</td>
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<td>Data da Rev: 27-Maio-16</td>
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6 RESIDÊNCIAS DO PESSOAL DO POSTO DE SAÚDE
A

Section A

NOTES

REFER TO STRUCTURAL GENERAL NOTES EA-MZ-CI0100-WOR-E04-00012-01

REFER TO REINFORCEMENT DRAWING EA-MZ-CI0100-WOR-E05-00065-01

REFER TO BENDING SCHEDULE EA-MZ-CI0100-WOR-E04-00012-01

REFER TO BENDING SCHEDULE EA-MZ-CI0100-WOR-E05-00065-01

SCALE 1: 50

REINFORCEMENT

SECTION A

SCALE 1: 10

SECTION B

SCALE 1: 10

ISSUED FOR CONSTRUCTION

WorleyParsons
P.O. Box 61232, MARSHALLTOWN, 2107
TEL: +27 (0)11 218 3000
FAX: +27 (0)11 218 3100

AMA 1
RESETTLEMENT VILLAGE
HEALTH CENTER:
CLINIC STAFF HOUSE
REINFORCEMENT LAYOUT

REVISED

DATE

SIGNATURE

ISSUED FOR

DESCRIPTION

DEC 2015

NOTE

DONE

BY

SIGNATURE

DATE

40

NR

30

400

10R10-

11R10-

6Y12-

01

-350

08

-200

6Y12-

6Y12-

6Y12-

5R10-

5R10-

6Y12-

7R10-

08

-200

01

-350

01

-350

-200

-350

-200

-350

-200

-200

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-300
STAFF HOUSES - CLINIC - INTERNAL DRAINAGE CONNECTIONS

<table>
<thead>
<tr>
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<th>QUANTITY</th>
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<tr>
<td>1</td>
<td>150mm ND PVC PIPE</td>
<td>m</td>
<td>3m</td>
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<tr>
<td>2</td>
<td>50mm ND PVC PIPE</td>
<td>m</td>
<td>3m</td>
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<tr>
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<td>50mm - SINGLE 90° PLAN JUNCTION</td>
<td>No.</td>
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<td>50mm - SINGLE 45° PLAN BEND</td>
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<td>5</td>
<td>110mm ND PVC PIPE</td>
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<td>110 - 90° PLAN BEND</td>
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<tr>
<td>7</td>
<td>110 - 45° PLAN REDUCING JUNCTION</td>
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<tr>
<td>8</td>
<td>50 - 90° 5° PLAN BEND</td>
<td>No.</td>
<td>2</td>
</tr>
<tr>
<td>9</td>
<td>110 ND PVC PIPE</td>
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<td>3m</td>
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COMMUNITY FACILITIES - COMMUNITY CENTRE WATER SUPPLY

<table>
<thead>
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<th>DESCRIPTION</th>
<th>UNIT</th>
<th>QUANTITY</th>
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<tr>
<td>1</td>
<td>15mm ND COPPER PIPE</td>
<td>m</td>
<td>7m</td>
</tr>
<tr>
<td>2</td>
<td>20mm/15mm HDPE / COPPER ADAPTOR</td>
<td>m</td>
<td>20m</td>
</tr>
<tr>
<td>3</td>
<td>90° ELBOW - COPPER</td>
<td>m</td>
<td>4</td>
</tr>
<tr>
<td>4</td>
<td>STRAIGHT COUPLER, COPPER TO MALE CONNECTION</td>
<td>m</td>
<td>1</td>
</tr>
<tr>
<td>5</td>
<td>WALL PLATE ELBOW TAP CONNECTOR, COPPER TO FEMALE CONNECTION</td>
<td>m</td>
<td>3</td>
</tr>
<tr>
<td>6</td>
<td>20mm/15mm HDPE / COPPER ADAPTOR</td>
<td>m</td>
<td>20m</td>
</tr>
<tr>
<td>7</td>
<td>STRAIGHT COUPLER, COPPER TO MALE CONNECTION</td>
<td>m</td>
<td>1</td>
</tr>
<tr>
<td>8</td>
<td>WALL PLATE ELBOW TAP CONNECTOR, COPPER TO FEMALE CONNECTION</td>
<td>m</td>
<td>3</td>
</tr>
</tbody>
</table>

NOTE: INTERNAL PIPE TO BE INSTALLED FLUSH AGAINST WALL
The following process must be followed when constructing the foundations, as per the geotechnical report (see general notes drawing for more information):

a) Excavate down to a minimum depth of 1.25m.

b) Compact the base of the excavation to 93% MDD (maximum dry density) using heavy plate-type compactors. All soft clay rich materials encountered at the base of the excavation are to be removed and replaced with cohesionless material or originally excavated out, less the clay rich component, and compacted to 95% MDD.

c) Backfill excavation with a minimum of 500mm of the material originally excavated, less the clay rich component. This material should be placed in layers not exceeding 150mm loose thickness and compacted to 95% MDD to form a bearing pad to construct the concrete foundations on.

d) The bearing pad should extend to at least 50% of the width of the concrete foundation on either side.

e) Concrete foundations may then be constructed on the backfill.
1. SOAK AWAYS

1.1. CONSTRUCTION OF SOAK AWAYS:

1.1.1. Use perforated drainage pipes with the outlets at the bottom of the soakaway trenches. The pipe diameter must not be less than 200 mm double wall perforated drainage pipe (See 1.1.3). Use pierced or flexicoil type for drainage. For drinking water or kitchen purposes, the use of rigid plastic pipes is not allowed. For water disposal, domestic use or kitchen purposes, the use of flexible plastic pipes is not allowed. Drainage pipes must comply with the dimensions and tolerances given in the Standards.

1.1.2. The area of the soakaway is calculated after carrying out a minimum of three percolation tests in the proposed drain field area. Use a formula to determine the area of the soakaway. The soakaway should be made of concrete, either in a trench or in a tank. The soakaway should be made of concrete, either in a trench or in a tank. The soakaway should be made of concrete, either in a trench or in a tank. Use hard-stone or similar approved geotextile membrane.

1.1.3. The soakaway shaft shall:

a) Be so constructed that the soakaway shaft is drained correctly to the soakaway trenches. The soakaway shaft should be at least 200 mm double wall perforated drainage pipe (See 1.1.3). Use pierced or flexicoil type for drainage. For drinking water or kitchen purposes, the use of rigid plastic pipes is not allowed. Drainage pipes must comply with the dimensions and tolerances given in the Standards.

b) Be so designed that the soakaway shaft is drained correctly to the soakaway trenches. The soakaway shaft should be at least 200 mm double wall perforated drainage pipe (See 1.1.3). Use pierced or flexicoil type for drainage. For drinking water or kitchen purposes, the use of rigid plastic pipes is not allowed. Drainage pipes must comply with the dimensions and tolerances given in the Standards.

c) Be so designed that the soakaway shaft is drained correctly to the soakaway trenches. The soakaway shaft should be at least 200 mm double wall perforated drainage pipe (See 1.1.3). Use pierced or flexicoil type for drainage. For drinking water or kitchen purposes, the use of rigid plastic pipes is not allowed. Drainage pipes must comply with the dimensions and tolerances given in the Standards.

d) Be so designed that the soakaway shaft is drained correctly to the soakaway trenches. The soakaway shaft should be at least 200 mm double wall perforated drainage pipe (See 1.1.3). Use pierced or flexicoil type for drainage. For drinking water or kitchen purposes, the use of rigid plastic pipes is not allowed. Drainage pipes must comply with the dimensions and tolerances given in the Standards.

2. STRUCTURAL

2.1. All Septic tank excavation events must be completed to 200 mm double wall perforated drainage pipe (See 1.1.3). Use pierced or flexicoil type for drainage. For drinking water or kitchen purposes, the use of rigid plastic pipes is not allowed. Drainage pipes must comply with the dimensions and tolerances given in the Standards.

2.2. All floor and cover slabs to be reinforced with mesh (See 1.1.5). The slab used must comply with the minimum requirements of EN 13046 (2003). All reinforced concrete floor slabs and cover slabs must comply with the minimum requirements of EN 13046 (2003).

2.3. Concrete strength requirement at 28 days: 30/19 MPa.

2.4. All 200mm block work to be filled with concrete (30 MPa/19mm). Use permeable material for backfilling. Use permeable material for backfilling.

2.5. All floor and cover slabs to be reinforced with mesh (See 1.1.5). The slab used must comply with the minimum requirements of EN 13046 (2003). All reinforced concrete floor slabs and cover slabs must comply with the minimum requirements of EN 13046 (2003).

2.6. CONCRETE STRENGTH REQUIREMENT AT 28 DAYS: 30/19 MPa.

2.7. All septic tank excavation inverts to be compacted to 93% MOD (EN 13046). Use permeable material for backfilling. Use permeable material for backfilling.

2.8. ALL 200mm BLOCK WORK TO BE FILLED WITH CONCRETE (30 MPa/19mm).

3. DETAILS OF SEPTIC TANK INSTALLATION

3.1. All septic tank excavation inverts to be compacted to 93% MOD (EN 13046). Use permeable material for backfilling. Use permeable material for backfilling.
7 CENTRO COMUNITÁRIO
SECTION A

SCALE 1:100

750mm THICK SURFACE BED
LAYERS COMPACTED TO MINIMUM 93% MDD

STAIRS IN BACKGROUND

750x600mm DEEP
LAYERS COMPAKTED TO MINIMUM 93% MDD
LAYER 100mm OF IN-SITU MATERIAL
TO BE RIPPED AND RC COMPACTED

SECTION B

SCALE 1:100

750mm LAYERS COMPACTED TO MINIMUM 93% MDD

STAIRS IN BACKGROUND

750x250mm STRIP FOOTING

EXCAVATION INVERTS

LEVELLED STAIRS TO BE COMPACTED TO MINIMUM 93% MDD
LAYER 750mm of 150mm G6 MATERIAL
TO BE RIPPED AND RC COMPACTED

NOTES

- Excavation inverts to be compacted to minimum 93% MDD
- Levelled stairs to be compacted to minimum 93% MDD
- Layer 750mm of 150mm G6 material to be ripped and re-compacted

DATE: DEC 2015

ISSUED FOR CONSTRUCTION

COMMUNITY CENTER: AMPHITHEATER LAYOUT

AMA 1
RESETTLEMENT VILLAGE

SCALE FOR REDUCED PLAN

REVISIONS

A

B

C

D

ISSUED FOR DETAIL DESIGN

TS

ISSUED FOR INTERNAL REVIEW

A

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LEGENDA / LEGEND

01 SALA COMUNITÁRIA
COMMUNITY CENTRE HALL

02 BLOCO ADMINISTRATIVO
ADMINISTRATION

03 SALA DE AULAS
CLASSROOM

04 ANFITEATRO
AMPHITHEATER

05 LATRINAS
PUBLIC TOILETS
ACABAMENTOS / Finishing

SALA DE AULAS
classroom
AREA 68.8m²

PAREDES / Walls:
Pv2 - Pavimentos os pisos de concreto do assoalho e teto liso até 1.50m de altura e teto liso acima aberto à cabeça
Concreto liso até 1.50m de altura e teto liso acima aberto à cabeça

REVESTIMENTOS / Coverings:
Tv1 - Teto de estuque em placas NUTEC
Tv3 - Teto de estuque em placas NUTEC

PINTURA / Painting:
- Para especificações da pintura consultar documento em anexo.

PAREDES / Walls:
Pv2 - Pisos com tinta esmalte de cor até 1.50m de altura (lateral) e tinta laca até o teto

FINTURA / Finishes:
- Para especificações da pintura consultar documento em anexo.
Para pormenor da cobertura consultar desenhos do especialista
For roof details refer to manufacturer’s drawings

1. Laje de pavimento em betão
Concrete slab

2. acabamento do pavimento em cimento queimado
Concrete floor to have float finish

3. Rodapé em betonilha lisa, pintada a tinta esmalte com h=100mm
Painted concrete skirting

4. Alvenaria em blocos vazados com espessura de 200mm
Walls in hollow block 200mm wide

5. Parede com reboço liso, pintada a tinta plástica
Wall with plain plaster and PVA painted

6. Viga de coronamento em betão armado
Concrete ring beam

7. Blocos ventiladores com rede mosquiteira sintética
Vent blocks with mosquito net

8. Cobertura em chapas metálicas esmaltadas com perfil IBR
Enamelled metalic roof sheeting with IBR profile on graded SA pine battens

9. Cumeeira em chapa esmaltada
Enameled sheet ridge cap

10. Tecto falso em placas de gesso cartonado pintado a tinta plástica
Ceiling in Gypsum board PVA painted under wooden structure

11. Tecto falso NUTEC em fibra de cimento
Fiber cement NUTEC soffit board

12. Lintel em betão armado
Concrete lintel

13. Pilar em madeira tratada
Treated timber column

14. Base do pilar em betão, pintado a tinta plástica
Concrete column base, painted with washable PVA paint

15. Laje de pavimento da varanda
Concrete verandah slab

Legenda
Key

1. Laje de pavimento em betão
Concrete slab

2. Acabamento do pavimento em cimento queimado
Concrete floor to have float finish

3. Rodapé em betonilha lisa, pintada a tinta esmalte com h=100mm
Painted concrete skirting

4. Alvenaria em blocos vazados com espessura de 200mm
Walls in hollow block 200mm wide

5. Parede com reboço liso, pintada a tinta plástica
Wall with plain plaster and PVA painted

6. Viga de coronamento em betão armado
Concrete ring beam

7. Blocos ventiladores com rede mosquiteira sintética
Vent blocks with mosquito net

8. Cobertura em chapas metálicas esmaltadas com perfil IBR
Enamelled metalic roof sheeting with IBR profile on graded SA pine battens

9. Cumeeira em chapa esmaltada
Enameled sheet ridge cap

10. Tecto falso em placas de gesso cartonado pintado a tinta plástica
Ceiling in Gypsum board PVA painted under wooden structure

11. Tecto falso NUTEC em fibra de cimento
Fiber cement NUTEC soffit board

12. Lintel em betão armado
Concrete lintel

13. Pilar em madeira tratada
Treated timber column

14. Base do pilar em betão, pintado a tinta plástica
Concrete column base, painted with washable PVA paint

15. Laje de pavimento da varanda
Concrete verandah slab

Pormenor/detalhe
Desenho/drawing
EA-MZ-C0100-WOR-ED5-00049-01

Piso interno deve estar
300mm do piso terreo
F.F.L. must be min.
300mm above n.g.l.

Nivel da Viga / Beam Level

Nivel da Cobertura / Ridge Level
Cobertura em Chapas metálicas esmaltadas com perfil IBR
Metal roof enameled sheeting with IBR profile
Para pormenor da cobertura consultar desenhos do especialista. For roof details refer to manufacturer’s drawings.

Piso interno deve estar 300mm do piso terreo.
300mm above n.g.l.

Legenda

1. Laje de pavimento em betão
Concrete slab

2. Acabamento do pavimento em cimento queimado
Concrete floor to have power float finish

3. Parede com reboco liso, pintada a tinta plástica
Wall with plain plaster and PVA painted

4. Viga de coroamento em betão armado
Concrete ring beam

5. Bloco ventiladores com rede mosquiteira sintetica
Vent blocks with mosquito net

6. Cobertura em chapas metálicas esmaltadas com perfil IBR com isolamento Sisolation 405
Enamelled metalic roof sheeting with IBR profile on graded SA pine battens with sisalation 405 roof underlay fixed to prefabricated roof trusses

7. Cumeeira em chapas esmaltada
Enamelled sheet ridge cap

8. Tecto falso NUTEC em fibra de cimento
Fiber cement NUTEC soffit board

9. Tecto falso NUTEC em fibra de cimento
Fiber cement NUTEC soffit board

10. Lintel em betão armado
Concrete lintel

11. Pilar em madeira tratada
Treated timber column

12. Base do pilar em betão, pitado a tinta plástica
Concrete column base, painted with washable PVA paint

13. Laje de pavimento da varanda
Concrete verandah slab

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All dimensions must be verified on site before the works commence. Refer any discrepancies to the Engineer.

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Metal roof enameled sheeting with IBR profile

Cobertura em Chapas metálicas esmaltadas com perfil IBR

Drawing Number: C00290-00-AR-DLP-0141-001

Architectural: EA-MZ-CI0100-WOR-E04-00901-01
EA-MZ-CI0100-WOR-E04-00500-01
EA-MZ-CI0100-WOR-E04-00605-01
EA-MZ-CI0100-WOR-E04-01111-01
EA-MZ-CI0100-WOR-E04-00612-01
EA-MZ-CI0100-WOR-E04-00505-01

Structural: EA-MZ-CI0100-WOR-E05-00044-01
EA-MZ-CI0100-WOR-E05-00005-01
EA-MZ-CI0100-WOR-E05-00006-01
EA-MZ-CI0100-WOR-E05-00007-01
EA-MZ-CI0100-WOR-E05-00008-01

Electrical: EA-MZ-CI0000-WOR-E02-00630-01
EA-MZ-CI0100-WOR-E02-00640-01

Water: EA-MZ-CI0100-WOR-E05-00516-01
EA-MZ-CI0100-WOR-E05-00517-01
EA-MZ-CI0100-WOR-E05-00518-01

WRF"
Para pormenor da cobertura consultar desenhos do especialista. For roof details refer to manufacturer’s drawings.

Nível da Cobertura

Desenho/drawing

EA-MZ-CI0100-WOR-ED0-00049-01

Piso interno deve estar 300mm do piso terreo. F.F.L. must be min. 300mm above n.g.l.

Legenda

1. Laje de pavimento em betão
Concrete slab
2. Acabamento do pavimento em cimento queimado
Concrete floor to have power float finish
3. Parede com reboco liso, pintada a tinta plástica
Wall with plain plaster and PVA painted
4. Viga de cimento em betão armado
Concrete lintel
5. Bloco ventiladores com rede mosquiteira sintética
Vent blocks with mosquito net
6. Cobertura em chapas metálicas esmaltadas com perfil IBR
Enamelled metalic roof sheeting with IBR profile on graded SA pine battens
7. Cumeeira em chapa esmaltada
Enamelled sheet ridge cap
8. Tecto falso NUTEC em fibra de cimento
Fiber cement NUTEC soffit board
9. Tecto falso NUTEC em fibra de cimento
Fiber cement NUTEC soffit board
10. Lintel em betão armado
Concrete lintel
11. Pilar em madeira tratada
Treated timber column
12. Base do pilar em betão, pintado a tinta plástica
Concrete column base, painted with washable PVA paint
13. Laje de pavimento da varanda
Concrete verandah slab
ALL DIMENSIONS AND LEVELS ARE TO BE CHECKED/VERIFIED ON SITE AND ANY DISCREPANCIES ARE TO BE REPORTED TO THE ARCHITECT

72'$6',0(16®(6(1Ë9(,6'(9(06(59(5,),&$'261$2%5$(48$/48(5',6&5(3Æ1&,$'(9(5È6(5&2081,&$'$$2$548,7(&72

Code:

Frame:

Finish:

Ironmongery:

Glazing:

Glazing Notes:

Code:  D9

Position:  Administration Reception

Localização:  Recepção

Admin:  

Qty:  

D2

WOOD FRAME TO MANUFACTURERS SPECS

SEM SOLID TIMBER DOOR

DOORS TO BE TYPE ZKID - from SWARTLAND OR SIMILAR

3 COATS CLEAR VARNISH

102 x 75 x 3mm PVD DOUBLE BALL BEARING BUTT HINGE X 3 PER DOOR

LOCK (2 LEAVER) WITH HANDLES POLISHED CHROME FINISH SIMILAR TO YALE GOWER HANDLE

3mm LAMINATED CLEAR GLASS

WOOD FRAME TO MANUFACTURERS SPECS

SOLID WOOD DOOR WITH GLASS PANES

DOOR TO BE from SWARTLAND OR SIMILAR

1 COAT PRIMER 1 COAT UNDERCOAT AND 2 COATS PLASCON ENAMEL DOORS : TRIMS COLOUR "LIGHT BROWN" OR EQUAL :

APPROVED

IRONMONGERY TO MANUFACTURERS SPECS

THIS DRAWINGS IS TO BE READ IN CONJUNCTION WITH:

ARCHITECTURAL

EA-MZ-C0100-WOR-E04-00612-01

PROJECT

AMA 1

RESETTLEMENT VILLAGE

NOTES:

1. ALL DOORS WILL BE OF UMBILA OR OF EQUIVALENT WOOD QUALITY APPROVED BY CLIENT

2. ALL OF THE CASEMENT WINDOWS WILL ALSO TAKE ONE MORE CASEMENT LEAF INSIDE IN MOSQUITO NET

3. ALL OPENINGS SIZE TO BE CONFIRMED ON SITE BEFORE MANUFACTURING

4. SHOP DRAWINGS TO BE APPROVED BY ARCHITECT BEFORE MANUFACTURING

5. REFER TO WINDOW & DOOR SCHEDULE KEY PLAN

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ESTE DESENHO É PARA SER LIDO EM CONJUNTO COM:

Nombre de la obra: Janelas & Portas

Nombre de la obra: Mapa de vãos: Janelas & Portas

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WorleyParsons RSA (Pty) Ltd.

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P.O. Box 61232, MARSHALLTOWN, 2107

TEL: +27 (0)11 218 3000

FAX: +27(0)11 218 3100

www.worleyparsons.com

WorleyParsons RSA (Pty) Ltd.
NOTES:

1. ALL DOORS WILL BE OF UMBILA OR OF EQUIVALENT WOOD QUALITY - APPROVED BY CLIENT

2. ALL OF THE CASEMENT WINDOWS WILL ALSO TAKE ONE MORE CASEMENT LEAF INSIDE IN MOSQUITO NET APPROVED BY ARCHITECT BEFORE MANUFACTURING

3. ALL OPENINGS SIZE TO BE CONFIRMED ON SITE BEFORE MANUFACTURING

4. SHOP DRAWINGS TO BE APPROVED BY ARCHITECT BEFORE MANUFACTURING

5. REFER TO WINDOW & DOOR SCHEDULE KEY PLAN

---

**Table: Windows and Doors Schedule**

<table>
<thead>
<tr>
<th>Code</th>
<th>Position</th>
<th>Admin. Block</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>W3</td>
<td>WC &amp; STORE</td>
<td>WC &amp; STORE</td>
<td>2</td>
</tr>
<tr>
<td>W4</td>
<td>WC &amp; STORE</td>
<td>WC &amp; STORE</td>
<td>2</td>
</tr>
</tbody>
</table>

**Frame:**

- **W3:** WOOD FRAME TO MANUFACTURERS SPECS
  - SOLID TIMBER WINDOW, 2 GLASS PANELS ON OUTSIDE & 2 MOSQUITO SCREEN PANELS ON THE INSIDE
  - WINDOW TO BE FROM SWARTLAND OR SIMILAR

- **W4:** WOOD FRAME TO MANUFACTURERS SPECS
  - SOLID TIMBER TOP HUNG WINDOW, 2 GLASS PANELS ON OUTSIDE & 2 MOSQUITO SCREEN PANELS ON THE INSIDE
  - WINDOW TO BE FROM SWARTLAND OR SIMILAR

**Finish:**

- **W3:**
  - 1 COAT PRIMER 1 COAT UNDERCOAT AND 2 COATS PLASCON ENAMEL DOORS: TRIMS COLOUR "LIGHT BROWN" OR EQUAL - APPROVED
  - GLAZING:
    - 3mm CLEAR GLASS

- **W4:**
  - 1 COAT PRIMER 1 COAT UNDERCOAT AND 2 COATS PLASCON ENAMEL DOORS: TRIMS COLOUR "LIGHT BROWN" OR EQUAL - APPROVED
  - GLAZING:
    - 3mm CLEAR GLASS

---

**Diagram: Windows and Doors Schedule**

- **Exterior:**
  - 1000 STRUCTURAL OPENING
- **Interior:**
  - SUPERFICIE DO PAVIMENTO Finish Floor Level
  - PARTE INFERIOR DO LINTEL Underside of lintel
  - Underside of lintel

---

---

---

---
NOTES:
1. ALL DOORS WILL BE OF UMBILA OR OF EQUIVALENT WOOD QUALITY & APPROVED BY CLIENT
2. ALL OF THE CASEMENT WINDOWS WILL ALSO TAKE ONE MORE CASEMENT LEAF INSIDE IN MOSQUITO NET
3. ALL OPENINGS SIZE TO BE CONFIRMED ON SITE BEFORE MANUFACTURING
4. SHOP DRAWINGS TO BE APPROVED BY ARCHITECT BEFORE MANUFACTURING
5. REFER TO WINDOW & DOOR SCHEDULE KEY PLAN
NOTES:

1. ALL DOORS WILL BE OF UMBILA OR OF EQUIVALENT WOOD QUALITY - APPROVED BY CLIENT

2. ALL OF THE CASEMENT WINDOWS WILL ALSO TAKE ONE MORE CASEMENT LEAF INSIDE IN MOSQUITO NET

3. ALL OPENINGS SIZE TO BE CONFIRMED ON SITE BEFORE MANUFACTURING

4. SHOP DRAWINGS TO BE APPROVED BY ARCHITECT BEFORE MANUFACTURING

5. REFER TO WINDOW : DOOR SCHEDULE KEY PLAN

Code:  
Frame:  
Aro:  
Wood Frame to manufacturers specs

Finish:  
Acabamentos:  
3 coats clear varnish

Ironmongery  
Lock (2 lever) with handles polished chrome finish similar to Yale Gower handle

Glazing:  
Vidros:  
3mm clear glass

Code:  
Frame:  
Aro:  
Wood Frame to manufacturers specs

Finish:  
Acabamentos:  
1 coat primer 1 coat undercoat and 2 coats plascon enamel doors & trims colour "light brown" or equal - approved

Ironmongery  
Glass panels with casement fastener handle & wedge - sliding stay open out all in satin chrome finish

Glazing:  
Vidros:  
3mm clear glass

Code:  
Frame:  
Aro:  
Wood Frame to manufacturers specs

Finish:  
Acabamentos:  
1 coat primer 1 coat undercoat and 2 coats plascon enamel doors & trims colour "light brown" or equal - approved

Ironmongery  
Glass panels with casement fastener handle & wedge - sliding stay open out all in satin chrome finish

Glazing:  
Vidros:  
3mm clear glass
SALA DE AULAS / Classroom
WINDOWS - DOOR SCHEDULE

NOTES:
1. ALL DOORS WILL BE OF UMBILA OR OF EQUIVALENT WOOD QUALITY APPROVED BY CLIENT
2. ALL OF THE CASEMENT WINDOWS WILL ALSO TAKE ONE MORE CASEMENT LEAF INSIDE IN MOSQUITO NET
3. ALL OPENINGS SIZE TO BE CONFIRMED ON SITE BEFORE MANUFACTURING
4. SHOP DRAWINGS TO BE APPROVED BY ARCHITECT BEFORE MANUFACTURING
5. REFER TO WINDOW / DOOR SCHEDULE KEY PLAN

Glazing Notes:
3mm CLEAR GLASS
**PLAN - COMMUNITY CENTRE TOILETS**

**DETAIL 1**

- **15mm COPPER PIPE**
- **20mm HDPE PIPE**
- **50mm ND PVC PIPE**

**COMMUNITY FACILITIES - ADMIN. CENTRE INTERNAL DRAINAGE CONNECTIONS**

<table>
<thead>
<tr>
<th>No.</th>
<th>DESCRIPTION</th>
<th>UNIT</th>
<th>QUANTITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1m x 1m 50mm - 90° VENT HORN BEND</td>
<td>m</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>1m x 1m 50mm - 90° VENT HORN BEND</td>
<td>m</td>
<td>1</td>
</tr>
<tr>
<td>3</td>
<td>1m x 1m 110mm - 90° BI-PRESSURE BEND</td>
<td>m</td>
<td>1</td>
</tr>
<tr>
<td>4</td>
<td>1m x 1m 110mm - 90° BI-PRESSURE BEND</td>
<td>m</td>
<td>1</td>
</tr>
</tbody>
</table>

**COMMUNITY FACILITIES - ADMIN. CENTRE WATER SUPPLY**

<table>
<thead>
<tr>
<th>No.</th>
<th>DESCRIPTION</th>
<th>UNIT</th>
<th>QUANTITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1m x 1m 15mm HEDS / COPPER ADAPTOR</td>
<td>m</td>
<td>4</td>
</tr>
<tr>
<td>2</td>
<td>1m x 1m 15mm COPPER ADAPTOR</td>
<td>m</td>
<td>8</td>
</tr>
<tr>
<td>3</td>
<td>TOILETS: STRAIGHT COUPLER, COPPER TO MALE CONN.</td>
<td>No.</td>
<td>2</td>
</tr>
<tr>
<td>4</td>
<td>KITCHEN SINK/ HAND WASH BASIN / SHOWER:</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>WALL PLATE ELBOW TAP CONNECTOR (Copper to Female)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>ISOLATING VALVE</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**TYPICAL WATER SUPPLY DETAIL AT BUILDINGS**

- **CONCRETE HOLLOW BLOCK WALL**
- **ISOLATING VALVE**
- **20mm HDPE PIPE**
- **15mm COPPER PIPE**

**LEGEND**

- 15mm ND PVC PIPE
- 15mm COPPER PIPE
- 20mm HDPE PIPE
- 40mm HDPE PIPE
- 110mm ND PVC PIPE
- 50mm ND PVC PIPE
Total Area for sidewalk pavement: approx. 860 m²
All dimensions must be verified on site before the works commence. Refer any including designs and/or documents prepared in terms of this appointment only subject to payment for the design having been received. Use for any purpose, whether or not the design and/or documents have been paid for the project covered by the appointment. The client may use the designs WorleyParsons RSA retains the copyright in all intellectual property, EA-MZ-CI0100-WOR-E05-00517-01 REFER TO ARCHITECTS DRAWING REFER TO STRUCTURAL GENERAL NOTES

COMMUNITY CENTER

AS SHOWN
ORIGINAL DWG SIZE A1

PAGE DIMENSIONS: 2384.0 x 1684.0

SCALE FOR REDUCED PLAN

DRAWING DESCRIPTION

ISSUED FOR DETAIL DESIGN

DATE

BUILDER

REVISIONS

NAME

TEL: +27 (0)11 218 3000

FAX: +27(0)11 218 3100

P.O. Box 61232, MARSHALLTOWN, 2107

VILLAGE

ADMINISTRATION

03/12/15

07/09/15

17/11/15

07/09/15

29/09/15

Copyright reserved
1. ENVIRO LOO SUITABLE FOR INDUSTRIAL USE CAPACITY PER ENVIRO LOO, 20 TO 40 USERS PER DAY.

2. ENVIRO LOO TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURER’S SPECIFICATIONS.

NOTE:
FOUNDATIONS AS PER STRUCTURAL ENGINEER’S DRAWING NO. WA-MZ-CI0100-WOR-E05-00016-01

REFERENCES
ANADARKO DRAWING NO. DRAWING DESCRIPTION
EA-MZ-CI0100-WOR-E05-00595-01 COMMUNITY FACILITIES: COMMUNITY CENTRE: DETAILS OF TOILET FACILITIES
EA-MZ-CI0100-WOR-E05-00595-03 COMMUNITY FACILITIES: COMMUNITY CENTRE: DETAILS OF SEPTIC TANK INSTALLATION
EA-MZ-CI0100-WOR-E05-00111-01 TOILETS: INTERNAL RETICULATIONS

TYPICAL FLOOR PLAN: ENVIRO LOO (SCHEMATIC)
1. **SOAK AWAY**
   1.1 **CONSTRUCTION OF SOAK AWAY**:
      1.1.1 Use perforated drainage pipes, with the slits/couplings at the bottom, laid in trenches of a uniform gradient not steeper than 1:20. Perforated flexible-type pipes are not allowed.
      1.1.2 The length of a single trench should be not exceed 30m.
      1.1.3 Use a 110mm ND stop end access coupler for 110mm ND solid wall drainage pipes.
      1.1.4 Perforated drainage pipes may only be laid in trenches that are filled with clean gravel or similar geotextile membrane.
      1.1.5 The recess of the manhole trench must comply with SANS 1882:2003 or similar analyzed.
      1.1.6 **SOAK AWAY TRENCHES** FLOODED TO A LEVEL ABOVE THE TRENCH AND COVERED WITH A LAYER OF GEOTEXTILE MEMBRANE TO PREVENT ENTRY OF FIBERS.
      1.1.7 The Recover of the manhole trench should be filled with a mixture containing gravel or similar geotextile membrane.
      1.1.8 **SOAK AWAY TRENCHES SHOULD BE THROWN HERE WITH AREAS OF UNCONSOLIDATED GEOTEXTILE MEMBRANE** TO INCREASE THE PLOWED TRENCHES.

2. **STRUCTURAL**
   2.1 All Septic tank excavation invert must be compacted to not exceed 30m ND HDG (Grading).
   2.2 All floor and cover slabs to be reinforced with mesh Ref. 888, placed by B Van Schoor.
   2.3 Concrete strength requirement at 28 days: 30/19 MPa.
   2.4 All 200mm block work to be placed with concrete (DEPWH 4).

**REFERENCES**

**NOTES**
8 ELECTRICIDADE
1. Earth ring conductor must be installed a minimum of 1.5m from the nearest wall and buried at a minimum depth of 500mm.

2. Lightning protection systems shall consist of 4x25mm² SWA cable + 16mm² BCEW conductor. Protection systems shall be bonded to steel pipes. Connections shall be made to earth electrode with 3M earth electrode with cadwelded connection driven into earth a minimum of 3m.

3. 250kVA 33kV/400V transformer mounted on 12m pole.

4. 2.5mm² conductors shall be used for all lighting circuits.

5. 4mm² conductors shall be used for all socket outlet circuits.

6. 6mm² conductors shall be used for all geyser and stove circuits.

7. All 3 core cables shall consist of 1 live phase conductor, 1 neutral conductor and a protected earth conductor.

1. Earth ring conductor must be installed a minimum of 1.5m from the nearest wall and buried at a minimum depth of 500mm.

2. Lightning protection systems shall consist of 4x25mm² SWA cable + 16mm² BCEW conductor. Protection systems shall be bonded to steel pipes. Connections shall be made to earth electrode with 3M earth electrode with cadwelded connection driven into earth a minimum of 3m.

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4. 2.5mm² conductors shall be used for all lighting circuits.

5. 4mm² conductors shall be used for all socket outlet circuits.

6. 6mm² conductors shall be used for all geyser and stove circuits.

7. All 3 core cables shall consist of 1 live phase conductor, 1 neutral conductor and a protected earth conductor.
Earthing Legend:
- Earth Ring Conductor
- Down Conductor
- Single Phase Switch
- Single Phase Circuit Breaker
- Single Phase Disconnectors
- Three Phase Switch
- Three Phase Circuit Breaker
- Three Phase Disconnectors
- 16mm² 4 Core SWA + 10mm² BCEW Cable
- RCCB Protection
- Road Protection

Notes:
- Earthing conductor must be earthed at a minimum of 1.5m from the nearest wall and buried at a minimum depth of 500mm.
- Down conductors fitted to structures will be done as follows:
  - Screwed to earth tab.
  - Welded on metal structures for the purpose of earthing.
  - Cadwelded to provide a permanent fixing method.
- Power cables shall be buried directly at a minimum of 600mm below grade.

See drawing C00290-00-EL-DES-0001-001 for earthing typical drawings.

Scale for Reduced Plan:
1:200

Schematic - Reservoir Site Kiosk

Earthing Layout - Reservoir

Power Layout - Reservoir
Earthing Layout - Well Fence

1. BARE COPPER EARTH WIRE INSTALLED 1.5M FROM FENCE AND 0.6M BELOW FINISHED GROUND LEVEL.
2. LIGHTNING PROTECTION SYSTEMS SHALL BE DESIGNED AND INSTALLED BY A CERTIFIED LIGHTNING PROTECTION COMPANY AND LIGHTNING PROTECTION SYSTEM COMPONENTS SHALL BE CERTIFIED FOR USE IN LIGHTNING PROTECTION SYSTEMS.
3. A MINIMUM OF TWO 70mm² BONDING CONDUCTOR CONNECTIONS SHALL BE MADE TO ADJACENT AREA STRUCTURE EARTHING LOOPS.
4. SEE DRAWING C00290-00-EL-DES-0001 FOR EARTHING TYPICAL DRAWINGS.
2. WHERE POWER CABLES ARE BURIED BELOW A ROAD CROSSING OR PATHWAY, 2x 110mm^2 3 CORE SWA CONDUCTORS/SLEEVES SHALL BE INSTALLED.

3. WHERE SPECIFIED ON THE DRAWING, LIGHT SWITCH

1 X 26W COMPACT FLUORESCENT WALL/CEILING MOUNTED DECORATIVE LUMINAIRE (EQUAL OR BETTER THAN RADIANT WT6E).

2 X 36W OPEN FLUORESCENT LUMINAIRE WITH ECG. (EQUAL OR BETTER THAN LASCON TYPE RI/T-236-ELB).

1 X 36W WEATHER PROOF TO IP 55 FLUORESCENT LUMINAIRE WITH TRI-PHOSPHOR LAMPS AND ECG (EQUAL OR BETTER THAN RADIANT TYPE JL25).

A 4M GALVANIZED STEEL POLE.

10mm^2 3 CORE SWA CONDUCTOR, 1 NEUTRAL CONDUCTOR AND A PROTECTED EARTH CONDUCTOR CONDUCTING FROM THE SERVICE BLOCK TO THE KIOSK-CLN SPACE INCLUDING DESK AND BENCH LIGHT.

RESIDENTIAL AREA - CLINIC - L2.2

PUBLIC PARKING 29 BAYS

KIOSK-CLN

VILLAGE

AMA1 RESETTLEMENT VILLAGE

Resettlement Village Clinic Site Power and Lighting Layout

Site Lighting & Power Layout - Clinic

1 : 200

Schematic - Clinic Site Kiosk

1 : 20
Power Layout - Admin Block 1

1:50

Lighting Layout - Admin Block 1

1:50

Schematic - Admin Block 1

1:20

Notes:

1. All socket outlets to be mounted at 300mm above FFL.
2. ONE LEVER LIGHT SWITCH
3. THREE LEVER LIGHT SWITCH
4. TWO LEVER LIGHT SWITCH
5. 2-WAY LIGHT SWITCH
6. RCBO PROTECTION
7. 20A 30mA SWITCH
8. 30mA SWITCH
9. 5kA 230V IP21 60A SP FN Busbar
10. 20A 30mA SWITCH
11. 30mA SWITCH
12. 10A 30mA SWITCH
13. 5A PC BY-PASS

Conductor Legend:

0 230V Single Phase Cables within 150mm of floor.

Conductor Legend:

1. 2.5mm² Conductors shall be used for all lighting circuits.
2. 6mm² Conductors shall be used for all socket outlet circuits.
3. Armoured Conductors shall be used for all General and Store Circuits.
4. All 3 Core Cables shall consist of 1 Live Phase Conductor, a Neutral Conductor and a Protective Earth conductor. The Neutral conductor shall be external and copper earth wire stripping to the cable at 1m intervals.
5. All 3 Core Cables shall consist of 1 Live Phase Conductor, a Neutral Conductor and a Protective Earth Conductor. The Neutral conductor shall be external and copper earth wire stripping to the cable at 1m intervals.

Distribution Legend:

1. Single Phase Switch
2. Single Phase Switch/Disconnector (Off Load Isolator)
3. Single Phase Circuit Breaker
4. Single Phase Circuit Breaker (Off Isolation)
5. Three Phase Switch
6. Three Phase Switch/Disconnector (Off Load Isolator)
7. Three Phase Circuit Breaker
8. Three Phase Circuit Breaker (Off Isolation)
9. RCD Protection

Conductor Legend:

1. 2.5mm² Conductors shall be used for all lighting circuits.
2. 6mm² Conductors shall be used for all socket outlet circuits.
3. Armoured Conductors shall be used for all General and Store Circuits.
4. All 3 Core Cables shall consist of 1 Live Phase Conductor, a Neutral Conductor and a Protective Earth conductor. The Neutral conductor shall be external and copper earth wire stripping to the cable at 1m intervals.
5. All 3 Core Cables shall consist of 1 Live Phase Conductor, a Neutral Conductor and a Protective Earth Conductor. The Neutral conductor shall be external and copper earth wire stripping to the cable at 1m intervals.

Distribution Legend:

1. Single Phase Switch
2. Single Phase Switch/Disconnector (Off Load Isolator)
3. Single Phase Circuit Breaker
4. Single Phase Circuit Breaker (Off Isolation)
5. Three Phase Switch
6. Three Phase Switch/Disconnector (Off Load Isolator)
7. Three Phase Circuit Breaker
8. Three Phase Circuit Breaker (Off Isolation)
9. RCD Protection

Conductor Legend:

0 230V Single Phase Cables within 150mm of floor.

Conductor Legend:

1. 2.5mm² Conductors shall be used for all lighting circuits.
2. 6mm² Conductors shall be used for all socket outlet circuits.
3. Armoured Conductors shall be used for all General and Store Circuits.
4. All 3 Core Cables shall consist of 1 Live Phase Conductor, a Neutral Conductor and a Protective Earth conductor. The Neutral conductor shall be external and copper earth wire stripping to the cable at 1m intervals.
5. All 3 Core Cables shall consist of 1 Live Phase Conductor, a Neutral Conductor and a Protective Earth Conductor. The Neutral conductor shall be external and copper earth wire stripping to the cable at 1m intervals.
1. All socket outlets to be mounted at 1.2 m from the nearest wall and 1.5 m from the nearest wall and 1.5 m from the nearest wall and

2. 2-way light switches

3. Switching and conduit work shall be certified for use in lightning protection systems.

4. All 4 core cables shall consist of 3 live phase conductors and 1 neutral conductor with an external bare copper earth wire strapped to the cable at 1m intervals.

5. 3 core cables shall consist of 1 live phase conductor, 1 neutral conductor and a protected earth conductor.

6. 4 core cables shall be used for all lighting circuits.

7. 3 core cables shall be used for all lighting circuits.

8. 2 core cables shall be used for all lighting circuits.

9. 1 core cables shall be used for all lighting circuits.

10. 0 core cables shall be used for all lighting circuits.

11. All 3 core cables shall consist of 1 live phase conductor, 1 neutral conductor and a protected earth conductor.

12. All 4 core cables shall consist of 3 live phase conductors and a neutral conductor with an external bare copper earth wire strapped to the cable at 1m intervals.

13. All 4 core cables shall consist of 3 live phase conductors and a neutral conductor with an external bare copper earth wire strapped to the cable at 1m intervals.
**Lighting Layout - Church**

1. **Double Socket Outlet**
   - Single Fluorescent Floodlight, with ESL Cool White Lamps. The luminaires will be suitable for wall, pole, or ceiling mounting. The light fittings will be equal or better than approved Radiant type FS76MS.

2. **Single Socket Outlet**
   - 2 x 26W compact fluorescent flood light, with ESL cool white lamps & ECG. Suitable for wall &/or pole mounting complete with 4M pole where required.
   - The pole and base shall be equal or better than PS76MS.

3. **Double Socket Outlet**
   - 2 x 26W compact fluorescent flood light, with ESL cool white lamps & ECG. Suitable for wall &/or pole mounting complete with 4M pole where required.
   - The pole and base shall be equal or better than PS76MS.

4. **Single Socket Outlet**
   - 1 x 18W compact fluorescent ceiling mounted luminaries with cool white lamps & ECG.

5. **Light Switch**
   - One lever light switch.
   - Two lever light switch.
   - Three lever light switch.

6. **Distribution Board**
   - Double pole isolator.
   - RCBO protection.

---

**Schematic - Church**

**Lighting Legend**
- Single Socket Outlet
- Double Socket Outlet
- VOP Data Point
- TV Point
- Voice Data Point
- Voice & Data Point
- Power Pole with 2 x Double Socket Outlet
- Bulkhead Luminaire with cast aluminium body, cool white lamp & ECG (equal or better than Radiant type WT6E).
- 2 x 36W open fluorescent luminaires with ECG. (equal or better than Radiant type JL25)
- 2 x 36W weather proof to IP 55 fluorescent luminaires with triphosphor lamps and ECG.
- 1 x 18W compact fluorescent ceiling mounted luminaries with cool white lamps & ECG (equal or better than Radiant type JL25).
- Triple phase switchbreaker for isolation.
- Single phase switchbreaker for isolation.
- Three phase switch.
- Three phase switchbreaker.
- Single phase switch.
- Single phase switchbreaker.

---

**Notes**
- All socket outlets to be mounted at 300mm above f.f.l.
- One lever light switch.
- Two lever light switch.
- Three lever light switch.
- Distribution board.
- Double pole isolator.
- RCBO protection.

---

**Construction**
- All 2 core cables shall consist of 1 live phase conductor, a neutral conductor and a protected earth conductor.
- All 3 core cables shall consist of 1 live phase conductor, 1 neutral conductor and a protected earth conductor.
- All 4 core cables shall consist of 3 live phase conductors and 1 neutral conductor with an external wire covering earth cabling every 1m intervals to the cable at 14 intervals.
- 2.5mm² conductors shall be used for all lighting circuits.
- 4mm² conductors shall be used for all socket outlet circuits.
- 6mm² conductors shall be used for all geysers and stove circuits.
- 10mm² conductors shall be used for all lights and air conditioning circuits.

---

**Distribution Board Location**

**Schematic - Church**

**Project**
- Resettlement Village
- Church Small Power and Lighting

**Issued for Construction**
- 04/12/15 TM SB Issued for Construction
- 02/10/15 TM SB Issued for Squad Check
- 09/10/15 TM CB Issued for Client Review
NOTES

10mm COMPACT FLUORESCENT BULBS MOUNTED IN 300MM DEEP TRIPOD WALL MOUNTED DECORATIVE LUMINAIRES WITH CLEAR GLASS LENSES, COOL WHITE LAMPS & ECG EQUAL OR BETTER THAN RADIANT TYPE BB74

WALL MOUNTED DECORATIVE BULBED LUMINAIRES WITH CLEAR GLASS LENSES, COOL WHITE LAMPS & ECG EQUAL OR BETTER THAN RADIANT TYPE BB74

1. ALL SOCKET OUTLETS TO BE MOUNTED AT 300MM ABOVE FFL.

1 X 36W  WEATHER PROOF TO IP 55 FLUORESCENT LUMINAIRE WITH 50mm SLEEVE TRIPHOSPHOR LAMPS AND ECG

SIMPLE SOCKET OUTLET

10A 40 20 50 03 0
50mm ON ORIGINAL DRAWING

WHITE LAMPS. THE LUMINAIRES WILL BE SUITABLE FOR WALL &/OR POLEMOUNTING COMPLETE WITH 4M POLE WHERE REQUIRED. (THE POLE AND A DOUBLE SOCKET OUTLET THE LIGHT FITTING WILL BE EQUAL OR BETTER APPROVED THAN PS76MS"POLE" AND LS122 "LIGHT" FROM RADIANT)

1. 2.5mm² 3 CORE CABLES AND 4 CONDUCTORS OF 1.5mm² FOR ALL LIGHTING CIRCUITS

2. 4mm² 3 CORE CABLES AND 4 CONDUCTORS OF 1.5mm² FOR ALL SOCKET OUTLET CIRCUITS

3. 60A SPI PHASE CONDUCTORS SHALL BE USED FOR ALL Geyser, and Store CIRCUITS

4. ALL 3 CORE CABLES SHALL CONSIST OF 1 LIVE PHASE CONDUCTORS, TRIPHOSPHOR CONDUCTOR AND A PROTECTED EARTH CONDUCTOR

5. ALL 3 CORE CABLES SHALL CONSIST OF 1 LIVE PHASE CONDUCTORS AND 1 NEUTRAL CONDUCTOR WITH 1 CORE GROUNDED TO THE CABLE AT THE END

SBC-00190-00-EL-DAL-0009 Site Electrical Reticulation – LV

C00290-00-EL-DES-0001-001 Typical Drawings Sheet 1

C00290-00-EL-DES-0001-002 Typical Drawings Sheet 2

C00290-00-EL-DAL-0047 Lighting Layout – Clinic Mothers Housing

Lighting Layout – Clinic Mothers Housing

Earthing Layout – Clinic Mothers Housing

Earthing Layout – Clinic Mothers Housing

Power Layout – Clinic Mothers Housing

Power Layout – Clinic Mothers Housing
1. ALL SOCKET OUTLETS TO BE MOUNTED AT 300mm ABOVE FFL.

2. 2 X 26W COMPACT FLUORESCENT RECESSED DOWN LIGHT, WITH ECG, HORIZONTALLY MOUNTED COOL WHITE LAMPS & 3M 3CORE 1MM² CABLE & 6A PLUGTOP. THE FITTING WILL BE EQUAL OR BETTER THAN RADIANT TYPE BB74.

3. LIGHTNING PROTECTION SYSTEM COMPONENTS SHALL BE CERTIFIED FOR USE IN LIGHTNING PROTECTION SYSTEMS EQUAL OR BETTER THAN RADIANT TYPE WT6E.

4. LIGHTNING PROTECTION SYSTEMS SHALL BE DESIGNED AND INSTALLED BY A CERTIFIED ELECTRICIAN.

5. A MINIMUM OF TWO 70mm² BONDING CONDUCTOR CONNECTIONS SHALL BE MADE TO 50mm SLEEVE.
SMALL POWER LEGEND

10 40 20 5003 0

LIGHTING LEGEND

50mm ON ORIGINAL DRAWING

WHITE LAMPS. THE LUMINAIRES WILL BE SUITABLE FOR WALL & POLEMOUNTING COMPLETE WITH 4M POLE WHERE REQUIRED. (THE POLE AND

NOTES

THE LIGHT FITTING WILL BE EQUAL OR BETTER APPROVED THAN PS76MS DOUBLE SOCKET OUTLET

1. ALL SOCKET OUTLETS TO BE MOUNTED AT

VARANDA

300mm ABOVE FFL.

2 X 26W COMPACT FLUORESCENT RECESSED DOWN LIGHT, WITH ECG, HORIZONTALLY MOUNTED COOL WHITE LAMPS & 3M 3CORE 1MM² CABTYRE AND6A PLUGTOP. THE FITTING WILL BE EQUAL OR BETTER THAN RADIANT TYPE BB74 LIGHT SWITCH2-WAY LIGHT SWITCH

1 X 26W COMPACT FLUORESCENT WALL/CEILING MOUNTED DECORATIVE (EQUAL OR BETTER THAN RADIANT TYPE WT6E)

1 2W DOUBLE POLE ISOLATOR

1 X 36W OPEN FLUORESCENT LUMINAIRE WITH ECG. (EQUAL OR BETTER THAN LASCON TYPE RI/T-136-ELB)

6U IT CABINET FOR VOIP

TRIPHOSPHOR LAMPS AND ECG

50mm SLEEVE

25mm CONDUIT

QUARTO

DB-PSH

Kitchen

Bedroom

Bedroom

Sala

Sala

1 2WAY LIGHT SWITCH

THREE LEVER LIGHT SWITCH

SINGLE PHASE SWITCH

SINGLE PHASE DISCONNECTOR ( OFF LOAD ISOLATOR)

SINGLE PHASE SWITCH DISCONNECTOR

SINGLE PHASE CIRCUIT BREAKER

SINGLE PHASE CIRCUIT BREAKER FOR ISOLATION

THREE PHASE SWITCH

THREE PHASE DISCONNECTOR ( OFF LOAD ISOLATOR)

THREE PHASE SWITCH DISCONNECTOR

THREE PHASE CIRCUIT BREAKER

THREE PHASE CIRCUIT BREAKER FOR ISOLATION

RCBO PROTECTION

1. 3 Phase Conductors shall be used for all Lighting Circuits
2. 2. 3 Core Conductor shall be used for all Switch Outlet Circuits
3. 3. Single Conductors shall be used for all Geyser and Stove Circuits
4. 4. All 3 Core Cables shall consist of 1 x 2.5 Phase Conductor, 1 Neutral Conductor and a Earthing conductor with an Earthing Wire Stranded Copper Wire 1mm². Airing knobs to be used for the Earthing Circuit

Power Layout - Police Staff Housing

1 : 50

Schematic - Police Staff Housing

1 : 20

Lighting Layout - Police Housing

1 : 50

Drawing Description

ORIGINAL DWG SIZE A1

DRAWING NUMBER REV NO

C00290-00-EL-DAL-0049

Issue for Construction

AMA1 RESETTLEMENT VILLAGE

Resettlement Village Police Staff Housing Small Power and Lighting

PROJECT: AMA1 RESETTLEMENT VILLAGE

Resettlement Village Police Staff Housing Small Power and Lighting

NOTE: ALL SOCKET OUTLETS TO BE MOUNTED AT 700MM ABOVE FFL.

DRAWING DESCRIPTION

1 : 20

DRAWING NUMBER

REVISIONS

DONE

CHECKED

DATE

1 : 50

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Lighting Layout - School Staff Housing

1:100

2. Power Layout - School Staff Housing

1:100

3. Schematic - School Staff Housing

1:20

Lighting Legends:

1. SINGLE SOCKET OUTLET
2. DOUBLE SOCKET OUTLET
3. VFD DATA POINT
4. PV PANEL
5. FUSE BOX
6. LIGHT SWITCH
7. 2WAY LIGHT SWITCH
8. DISTRIBUTION BOARD
9. DOUBLE POLE ISOLATOR
10. SLIDE SWITCH
11. RECESS CONDUIT

Lighting Requirements:

1. SINGLE SOCKET OUTLET
2. DOUBLE SOCKET OUTLET

Lighting Requirements:

1. 10kA 230V IP21 5kA 230V IP21
2. 10kA 230V IP21 5kA 230V IP21
3. 10kA 230V IP21 5kA 230V IP21

Conductor Legend:

1. 2.5mm² CONDUCTORS SHALL BE USED FOR ALL LIGHTING CIRCUITS
2. 4mm² CONDUCTORS SHALL BE USED FOR ALL SOCKET OUTLET CIRCUITS
3. 6mm² CONDUCTORS SHALL BE USED FOR ALL GEYSER AND STOVE CIRCUITS
4. ALL 3 CORE CABLES SHALL CONSIST OF 1 LIVE PHASE CONDUCTOR, 1 NEUTRAL CONDUCTOR AND A PROTECTED EARTH CONDUCTOR
5. ALL 4 CORE CABLES SHALL CONSIST OF 3 LIVE PHASE CONDUCTORS AND A NEUTRAL CONDUCTOR

Power Layout - School Staff Housing

1:100

Schematic - School Staff Housing

1:20
Lighting Legend

<table>
<thead>
<tr>
<th>Lighting Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 x 60W FLOOD</td>
<td>2 x 60W FLOOD LIGHT, WITH ECG, COOL WHITE LAMPS, THE LUMINAIRES WILL BE MOUNTED ON A GALVANIZED STEEL POLE AND THE LIGHT FITTINGS WILL BE EQUAL OR BETTER THAN Radiant Type BB74 and 6A PLUGTOP. THE FITTINGS WILL BE EQUAL OR BETTER THAN RAYFLEX TYPE &quot;LIGHT PLUG TOP&quot;.</td>
</tr>
<tr>
<td>3 x 26W COMPACT FLUORESCENT FLOOD LIGHT</td>
<td>3 X 26W COMPACT FLUORESCENT FLOOD LIGHT, WITH ECG, WHITE LAMPS AND 3M SLEEVE. THE LUMINAIRES WILL BE MOUNTED ON A GALVANIZED STEEL POLE.</td>
</tr>
<tr>
<td>2 x 26W COMPACT FLUORESCENT RECESSED DOWN LIGHT</td>
<td>2 X 26W COMPACT FLUORESCENT RECESSED DOWN LIGHT, WITH ECG, Horizontally Mounted Cool White Lamps &amp; ECG (EQUAL OR BETTER THAN Radiant Type LS896 WITH A 70W MH LAMP MOUNTED ON A 4M GALVANIZED STEEL POLE).</td>
</tr>
<tr>
<td>1 x 36W OPEN FLUORESCENT LUMINAIRE WITH ECG</td>
<td>1 X 36W OPEN FLUORESCENT LUMINAIRE WITH ECG. (EQUAL OR BETTER THAN Radiant Type RI/T-136-ELB).</td>
</tr>
<tr>
<td>1 x 36W OPEN FLUORESCENT LUMINAIRE</td>
<td>1 X 36W OPEN FLUORESCENT LUMINAIRE WITH ECG. (EQUAL OR BETTER THAN Radiant Type RI/T-236-ELB).</td>
</tr>
</tbody>
</table>

Notes

1. All socket outlets to be mounted at 300mm above FFL.
2. Earth ring conductor must be installed horizontally mounted cool white lamps & 3M core 1mm² cable and power pole with 2 x double 6A plugtop. The fitting will be equal or better than Radiant Type BB74 and buried at a minimum depth of 500mm.
3. Lightning protection system components shall be designed and installed by a certified Lightning Protection Company.
4. A minimum of two 70mm² bonding conductor shall be used to connect all metal parts of the building to the earth grid.

Earthing Legend

<table>
<thead>
<tr>
<th>Earthing Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TYPE W6</td>
<td>TYPE W6</td>
</tr>
</tbody>
</table>
Earthing Layout - Police Station

1. Earthing Ring conductor must be installed a minimum of 1.5m from the nearest wall and buried at a minimum depth of 500mm.

2. Lightning protection system components shall be certified for use in lightning protection systems.

3. Lightning protection systems shall be designed and installed by a certified lightning protection company.

4. A minimum of two 70mm² bonding conductor connections shall be made to adjacent area structure earthing loops.

Note: See drawing C00290-00-EL-DAL-0009, stand number 244 for overview.
1. Earthing ring conductor must be installed a minimum of 1.5m from the nearest wall and buried at a minimum depth of 500mm.

2. Lightning protection system components shall be certified for use in lightning protection systems.

3. Lightning protection systems shall be designed and installed by a certified lightning protection company.

4. A minimum of two 70mm² bonding conductor connections shall be made to adjacent area structure earthing loops.

Note: See drawing C00290-00-EL-DAL-0009, stand number 244 for overview.

Earthing Layout - Police Station Cells

1: 50
LIGHTING LEGEND

- SMALL TRUNKING, WHITE WITH 3 CORE CABLES (NOT MOUNTED) 25mm CONDUIT
- LARGE TRUNKING, WHITE WITH 3 CORE CABLES (MOUNTED) 16mm2 3 CORE FED FROM DB PS
- LARGE TRUNKING, WHITE WITH 4 CORE CABLES (MOUNTED) 32mm2 4 CORE FED FROM DB PS
- MEDIUM TRUNKING, WHITE WITH 3 CORE CABLES (NOT MOUNTED) 16mm2 3 CORE FED FROM DB PS
- MEDIUM TRUNKING, WHITE WITH 4 CORE CABLES (NOT MOUNTED) 25mm 4 CORE FED FROM DB PS
- SMALL TRUNKING, WHITE WITH 4 CORE CABLES (NOT MOUNTED) 25mm CONDUIT
- LIFTS, 1 X 36W OPEN FLUORESCENT LUMINAIRE WITH ECG. (EQUAL OR BETTER THAN LASCON TYPE RI/T-136-ELB)
- TV, 1 X 26W COMPACT FLUORESCENT WALL/CEILING MOUNTED DECORATIVE (EQUAL OR BETTER THAN RADIANT TYPE WT6E)
- LIGHT SWITCH
- TWO WAY LIGHT SWITCH
- THREE WAY LIGHT SWITCH
- DISTRIBUTION BOARD LOCATION
- DOUBLE POLE ISOLATOR
- DISTRIBUTION BOARD ISSUE LOCATION
- 2 CORE ISOLATOR
- 3 CORE ISOLATOR
- 4 CORE ISOLATOR
- 6 CORE ISOLATOR
- 100mm SLEEVE
- 90mm SLEEVE
- 50mm SLEEVE
- 30mm SLEEVE

CONDUCTOR LEGEND

- 1.25mm² CONDUCTORS SHALL BE USED FOR ALL LIGHTING CIRCUITS
- 1.5mm² CONDUCTORS SHALL BE USED FOR ALL SOCKET OUTLET CIRCUITS
- 2.5mm² CONDUCTORS SHALL BE USED FOR ALL SOCKET AND STOVE CIRCUITS
- ALL 3 CORE CABLES SHALL CONSIST OF 1 LIVE PHASE CONDUCTOR, 1 NEUTRAL CONDUCTOR AND A PROTECTED EARTH CONDUCTOR
- ALL 4 CORE CABLES SHALL CONSIST OF 1 LIVE PHASE CONDUCTOR AND A NEUTRAL CONDUCTOR WITH AN EXTERNAL 2MM COPPER EARTH WIRE STRAPPED TO THE CABLE AT 4M INTERVALS
- ALL 5 CORE CABLES SHALL CONSIST OF 1 LIVE PHASE CONDUCTOR AND A NEUTRAL CONDUCTOR WITH AN EXTERNAL 3MM COPPER EARTH WIRE STRAPPED TO THE CABLE AT 4M INTERVALS

NOTES

- DRAWING NUMBER
- ISSUE NUMBER
- DRAWN BY
- CHECKED
- DESIGNED BY
- PROJECT MANAGER
- LOCAL PR ENG:
- CLIENT:
- NAME SIGNATURE DATE
- 1. 2.5mm² CONDUCTORS SHALL BE USED FOR ALL LIGHTING CIRCUITS
- 2. 4mm² CONDUCTORS SHALL BE USED FOR ALL SOCKET AND STOVE CIRCUITS
- 3. 6mm² CONDUCTORS SHALL BE USED FOR ALL 2 WAY LIGHT SWITCHES
- 4. ALL 3 CORE CABLES SHALL CONSIST OF 1 LIVE PHASE CONDUCTOR, 1 NEUTRAL CONDUCTOR AND A PROTECTED EARTH CONDUCTOR
- 5. ALL 4 CORE CABLES SHALL CONSIST OF 1 LIVE PHASE CONDUCTOR AND A NEUTRAL CONDUCTOR WITH AN EXTERNAL 2MM COPPER EARTH WIRE STRAPPED TO THE CABLE AT 4M INTERVALS
- 6. ALL 5 CORE CABLES SHALL CONSIST OF 1 LIVE PHASE CONDUCTOR AND A NEUTRAL CONDUCTOR WITH AN EXTERNAL 3MM COPPER EARTH WIRE STRAPPED TO THE CABLE AT 4M INTERVALS

LIGHTING INSTALLATION

- 2 X 36W OPEN FLUORESCENT LUMINAIRE WITH ECG. (EQUAL OR BETTER THAN RADIANT TYPE BB74)
- 2 X 36W WEATHER PROOF TO IP 55 FLUORESCENT LUMINAIRE WITH TRIPHOSPHOR LAMPS AND ECG
- 1X18W COMPACT FLUORESCENT CEILING MOUNTED LUMINARIES WITH COOL WHITE LAMPS & ECG (EQUAL OR BETTER THAN RADIANT TYPE JL25)
- 1X36W OPEN FLUORESCENT LUMINAIRE WITH ECG. (EQUAL OR BETTER THAN RADIANT TYPE LS896 WITH A 70W MH LAMP MOUNTED ON A 4M GALVANIZED STEEL POLE)
- 2 X 26W COMPACT FLUORESCENT RECESSED DOWN LIGHT, WITH ECG, PC TRIPHOSPHOR LAMPS AND ECG, MOUNTED IN A MEDICAL SUITE OF THE POLICE STATION. THE FITTING WILL BE EQUAL OR BETTER THAN RADIANT TYPE PS76MS, "POLE" AND LS122 "LIGHT" FROM RADIANT
- 2 X 26W COMPACT FLUORESCENT MOUNTED ON DEEDS LIGHT (PHOTOCELL)
- THE LIGHT FITTING WILL BE EQUAL OR BETTER APPROVED THAN PS76MS
- THE LIGHT FITTING WILL BE EQUAL OR BETTER THAN RADIANT TYPE BB74
- THE LIGHT FITTING WILL BE EQUAL OR BETTER THAN RADIANT TYPE LS896
- THE LIGHT FITTING WILL BE EQUAL OR BETTER THAN RADIANT TYPE PS76MS
- THE LIGHT FITTING WILL BE EQUAL OR BETTER THAN RADIANT TYPE LS122

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Resettlement Village Police Station Lighting

AMA1 RESETTLEMENT VILLAGE

Anadarko Mogwase Area Ltd.

Resettlement Village Police Station Lighting
SINGLE PHASE SWITCH DISCONNECTOR (OFF LOAD ISOLATOR)

SINGLE PHASE CIRCUIT BREAKER FOR ISOLATION

THREE PHASE CIRCUIT BREAKER FOR ISOLATION

REVISIONS

1. 20A SINGLE PHASE DISCONNECTOR (OFF LOAD ISOLATOR)

2. 10A SINGLE PHASE CIRCUIT BREAKER FOR ISOLATION

3. THREE PHASE CIRCUIT BREAKER FOR ISOLATION

4. THREE PHASE CIRCUIT BREAKER

5. THREE PHASE CIRCUIT BREAKER FOR ISOLATION

6. THREE PHASE CIRCUIT BREAKER DISCONNECTOR

7. THREE PHASE CIRCUIT BREAKER FOR ISOLATION

8. THREE PHASE CIRCUIT BREAKER DISCONNECTOR

9. THREE PHASE CIRCUIT BREAKER

10. THREE PHASE CIRCUIT BREAKER FOR ISOLATION

CONDUCTOR LEGEND

1. 1.0mm² CONDUCTORS SHALL BE USED FOR ALL LIGHTING CIRCUITS

2. 2.5mm² CONDUCTORS SHALL BE USED FOR ALL SOCKET OUTLET CIRCUITS

3. 4mm² CONDUCTORS SHALL BE USED FOR ALL GEYSER AND STOVE CIRCUITS

4. 6mm² CONDUCTORS SHALL BE USED FOR ALL GEYSER AND STOVE CIRCUITS

5. ALL 3 CORE CABLES SHALL CONSIST OF 1 LIVE PHASE CONDUCTOR, 1 NEUTRAL CONDUCTOR, AND 1 GROUND CONDUCTOR. A 4 CORE CABLE SHALL CONSIST OF 1 LIVE PHASE CONDUCTOR, 1 NEUTRAL CONDUCTOR, 1 GROUND CONDUCTOR, AND 1 GROUND CONDUCTOR. EXTERNAL BARE COPPER EARTH WIRE STRAPPING TO THE CABLE AT 1500MM INTERVAL.

notes

ISSUED FOR CONSTRUCTION

WorleyParsons RSA (Pty) Ltd.

NAME SIGNATURE DATE

S Bedasie

31/07/15

P3

PR ENG:

L Padayachee

02/10/15

L2

ENG:

20050166

ENG:

P3

LOCAL PR

DB-AB1

DRAWN BY:

N Brandsen

02/10/15

SP1

DESIGNER:

N Brandsen

02/10/15

SP2

CHECKED:

S Bedasie

31/07/15

P3

PR ENG:

C Brandsen

20/10/15

R ENG:

C Brandsen

20/10/15

CONTACTOR

DATA CABINET

1. 2.5mm² CONDUCTORS SHALL BE USED FOR ALL LIGHTING CIRCUITS

2. 4mm² CONDUCTORS SHALL BE USED FOR ALL SOCKET OUTLET CIRCUITS

3. 6mm² CONDUCTORS SHALL BE USED FOR ALL GEYSER AND STOVE CIRCUITS

4. 6mm² CONDUCTORS SHALL BE USED FOR ALL GEYSER AND STOVE CIRCUITS

5. ALL 4 CORE CABLES SHALL CONSIST OF 3 LIVE PHASE CONDUCTORS, 1 NEUTRAL CONDUCTOR, AND 1 GROUND CONDUCTOR. A 5 CORE CABLE SHALL CONSIST OF 3 LIVE PHASE CONDUCTORS, 1 NEUTRAL CONDUCTOR, 1 GROUND CONDUCTOR, AND 1 GROUND CONDUCTOR. EXTERNAL BARE COPPER EARTH WIRE STRAPPING TO THE CABLE AT 1500MM INTERVALL.
Earthing Layout - Admin Block 1

1: 50

1. Earth ring conductor must be installed a minimum of 1.5m from the nearest wall and buried at a minimum depth of 500mm.

2. Lightning protection system components shall be certified for use in lightning protection systems.

3. Lightning protection systems shall be designed and installed by a certified lightning protection company.

4. A minimum of two 70mm² bonding conductor connections shall be made to adjacent area structure earthing loops.

Note: See drawing C00290-00-EL-DAL-0009, stand number 243 for overview.
1. Earth Ring Conductor must be installed a minimum of 1.5m from the nearest wall and buried at a minimum depth of 500mm.

2. Lightning Protection System components shall be certified for use in lightning protection systems.

3. Lightning Protection Systems shall be designed and installed by a certified Lightning Protection Company.

4. A minimum of two 70mm² bonding conductor connections shall be made to adjacent area structure earthing loops.

NOTE: See Drawing C00290-00-EL-DAL-0009, Stand Number 243 for overview.
1. ALL SOCKET OUTLETS TO BE MOUNTED AT 300mm ABOVE FFL
2. SINGLE SOCKET OUTLET
3. 2 X 26W COMPACT FLUORESCENT RECESSED DOWN LIGHT, WITH ECG, HORIZONTALLY MOUNTED COOL WHITE LAMPS & 3M 3CORE 1MM² CABTYRE AND 6A PLUGTOP. THE FITTING WILL BE EQUAL OR BETTER THAN RADIANT TYPE BB74
4. 1 X 36W OPEN FLUORESCENT LUMINAIRE WITH ECG. (EQUAL OR BETTER THAN LASCON TYPE RI/T-136-ELB)
5. 1 X 36W WEATHER PROOF TO IP 55 FLUORESCENT LUMINAIRE WITH TRIPHOSPHOR LAMPS AND ECG
6. 1X18W COMPACT FLUORESCENT CEILING MOUNTED LUMINARIES WITH COOL WHITE LAMPS & ECG (EQUAL OR BETTER THAN RADIANT TYPE JL25)
7. EQUAL OR BETTER THAN RADIANT TYPE LS896 WITH A 70W MH LAMP MOUNTED ON A 4M GALVANIZED STEEL POLE.
8. ONE LEVER LIGHT SWITCH
9. TWO LEVER LIGHT SWITCH
10. THREE LEVER LIGHT SWITCH
11. 2-WAY LIGHT SWITCH
12. DISTRIBUTION BOARD LOCATION
13. SINGLE PHASE DISCONNECTOR
14. SINGLE PHASE SWITCH DISCONNECTOR
15. SINGLE PHASE CIRCUIT BREAKER
16. SINGLE PHASE CIRCUIT BREAKER FOR ISOLATION
17. THREE PHASE SWITCH DISCONNECTOR
18. THREE PHASE CIRCUIT BREAKER
19. THREE PHASE CIRCUIT BREAKER FOR ISOLATION
20. RCBO PROTECTION

PHOTOCELL

CIRCUIT LEGEND

SINGLE PHASE SWITCH
SINGLE PHASE DISCONNECTOR
SINGLE PHASE CIRCUIT BREAKER
SINGLE PHASE CIRCUIT BREAKER FOR ISOLATION
THREE PHASE SWITCH
THREE PHASE DISCONNECTOR
THREE PHASE CIRCUIT BREAKER
THREE PHASE CIRCUIT BREAKER FOR ISOLATION
RCBO PROTECTION

CONDUCTOR LEGEND

1. ALL 3 CORE CABLES SHALL CONSIST OF 1 LIVE PHASE CONDUCTOR, 1 NEUTRAL CONDUCTOR AND A PROTECTED GROUND CONDUCTOR
2. ALL 4 CORE CABLES SHALL CONSIST OF 1 LIVE PHASE CONDUCTORS AND A NEUTRAL CONDUCTOR WITH ANY GROUNDED CIRCUIT CONDUCTOR BEING STRIPPED TO THE CABLE AT 6 INCHES
3. 2 WIRE CONDUCTORS SHALL BE USED FOR ALL LIGHTING CIRCUITS
4. 3 WIRE CONDUCTORS SHALL BE USED FOR ALL SOCKET OUTLET CIRCUITS
5. 4 WIRE CONDUCTORS SHALL BE USED FOR ALL FIXTURE AND STOVE CIRCUITS
6. 5 WIRE CONDUCTORS SHALL BE USED FOR ALL EXHAUST AND STOVE CIRCUITS
7. 6 WIRE CONDUCTORS SHALL BE USED FOR ALL EXHAUST AND STOVE CIRCUITS
8. ALL CONDUCTORS SHALL CONSIST OF 1 LIVE PHASE CONDUCTOR, 1 NEUTRAL CONDUCTOR AND A PROTECTED GROUND CONDUCTOR

NOTES

1. ALL SOCKET OUTLETS TO BE MOUNTED AT 300mm ABOVE FFL
2. SINGLE SOCKET OUTLET
3. 2 X 26W COMPACT FLUORESCENT RECESSED DOWN LIGHT, WITH ECG, HORIZONTALLY MOUNTED COOL WHITE LAMPS & 3M 3CORE 1MM² CABTYRE AND 6A PLUGTOP. THE FITTING WILL BE EQUAL OR BETTER THAN RADIANT TYPE BB74
4. 1 X 36W OPEN FLUORESCENT LUMINAIRE WITH ECG. (EQUAL OR BETTER THAN LASCON TYPE RI/T-136-ELB)
5. 1 X 36W WEATHER PROOF TO IP 55 FLUORESCENT LUMINAIRE WITH TRIPHOSPHOR LAMPS AND ECG
6. 1X18W COMPACT FLUORESCENT CEILING MOUNTED LUMINARIES WITH COOL WHITE LAMPS & ECG (EQUAL OR BETTER THAN RADIANT TYPE JL25)
7. EQUAL OR BETTER THAN RADIANT TYPE LS896 WITH A 70W MH LAMP MOUNTED ON A 4M GALVANIZED STEEL POLE.
8. ONE LEVER LIGHT SWITCH
9. TWO LEVER LIGHT SWITCH
10. THREE LEVER LIGHT SWITCH
11. 2-WAY LIGHT SWITCH

ISSUED FOR CONSTRUCTION

Resettlement Village Admin Block 2 Small Power and Lighting

AMA1 RESETTLEMENT VILLAGE
Resettlement Village Admin Block 2 Small Power and Lighting

CONDUCTOR LEGEND

SINGLE PHASE SWITCH
SINGLE PHASE DISCONNECTOR
SINGLE PHASE CIRCUIT BREAKER
SINGLE PHASE CIRCUIT BREAKER FOR ISOLATION
THREE PHASE SWITCH
THREE PHASE DISCONNECTOR
THREE PHASE CIRCUIT BREAKER
THREE PHASE CIRCUIT BREAKER FOR ISOLATION
RCBO PROTECTION

CONDUCTOR LEGEND

1. ALL 3 CORE CABLES SHALL CONSIST OF 1 LIVE PHASE CONDUCTOR, 1 NEUTRAL CONDUCTOR AND A PROTECTED GROUND CONDUCTOR
2. ALL 4 CORE CABLES SHALL CONSIST OF 1 LIVE PHASE CONDUCTORS AND A NEUTRAL CONDUCTOR WITH ANY GROUNDED CIRCUIT CONDUCTOR BEING STRIPPED TO THE CABLE AT 6 INCHES
3. 2 WIRE CONDUCTORS SHALL BE USED FOR ALL LIGHTING CIRCUITS
4. 3 WIRE CONDUCTORS SHALL BE USED FOR ALL SOCKET OUTLET CIRCUITS
5. 4 WIRE CONDUCTORS SHALL BE USED FOR ALL FIXTURE AND STOVE CIRCUITS
6. 5 WIRE CONDUCTORS SHALL BE USED FOR ALL EXHAUST AND STOVE CIRCUITS
7. 6 WIRE CONDUCTORS SHALL BE USED FOR ALL EXHAUST AND STOVE CIRCUITS
8. ALL CONDUCTORS SHALL CONSIST OF 1 LIVE PHASE CONDUCTOR, 1 NEUTRAL CONDUCTOR AND A PROTECTED GROUND CONDUCTOR

ISO 15686-2:2013

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WorleyParsons RSA
10kA 230V IP21

10kA

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SA
Earthing Layout - Community Centre

1. Earth ring conductor must be installed a minimum of 1.5m from the nearest wall and buried at a minimum depth of 500mm.

2. Lightning protection system components shall be certified for use in lightning protection systems.

3. Lightning protection systems shall be designed and installed by a certified lightning protection company.

4. A minimum of two 70mm² bonding conductor connections shall be made to adjacent area structure earthing loops.

NOTE: See drawing C00290-00-EL-DAL-0009, STAND NUMBER 218 FOR OVERVIEW.
1. POWER CABLES SHALL BE BURIED DIRECTLY AT A MINIMUM OF 600mm BELOW GRADE.

2. WHERE SPECIFIED ON THE DRAWING, CONDUITS/SLEEVES SHALL BE INSTALLED.

3. WHERE SPECIFIED ON THE DRAWING, CONDUITS/SLEEVES SHALL BE INSTALLED.

4. ALL CORE CABLES SHALL CONSIST OF 1 LIVE PHASE CONDUCTOR, 1 NEUTRAL CONDUCTOR AND A PROTECTED EARTH CONDUCTOR.

5. ALL CORE CABLES SHALL BE COATED WITH 1500mm OF WEATHERPROOF MATERIAL.

6. SOCKET OUTLET TO BE MOUNTED IN A WEATHERPROOF BOX 1500mm ABOVE AFFL.

7. THREE PHASE CIRCUIT BREAKER FOR ISOLATION.

8. THREE PHASE CIRCUIT BREAKER FOR ISOLATION.

9. THREE PHASE SWITCH DISCONNECTOR.

10. THREE PHASE SWITCH DISCONNECTOR.

11. THREE PHASE SWITCH DISCONNECTOR.

REVISIONS

A 28/09/15 TM SB Issued for Peer Review

B 28/09/15 TM SB Issued for Detailed Design

C 02/10/15 TM SB Issued for Squad Check

D 09/10/15 TM CB Issued for Client Review

E 06/11/15 TM SB Issued for Client Approval

F 04/12/15 TM SB Issued for Construction
NOTES

1. All dimensions must be verified on site before the works commence. Refer any discrepancies to the Engineer.

2. Power EA-MZ-CI0100-WOR-E02-00530-01

3. Lighting Layout - Community Centre

4. 2 x 36W OPEN FLUORESCENT LUMINAIRE WITH ECG. (EQUAL OR BETTER THAN LASCON TYPE RI/T-236-ELB)

5. 2 X 36W OPEN FLUORESCENT LUMINAIRE WITH ECG. (EQUAL OR BETTER THAN LASCON TYPE RI/T-136-ELB)

6. 2 X 26W COMPACT FLUORESCENT RECESSED DOWN LIGHT, WITH ECG, HORIZONTALLY MOUNTED COOL, WHITE LAMPS & ECG. (EQUAL OR BETTER THAN RADIANT TYPE BB74 POWER POLE WITH 2 X DOUBLE SOCKET OUTLET.

7. 2 X 26W COMPACT FLUORESCENT FLOOD LIGHT, WITH ECG, WHITE LAMPS. THE LUMINAIRES WILL BE SUITABLE FOR WALL &/OR POLEMOUNTING COMPLETE WITH 4M POLE WHERE REQUIRED. (THE POLE AND A DOUBLE SOCKET OUTLET)

8. 1 X 36W OPEN FLUORESCENT LUMINAIRE WITH ECG. (EQUAL OR BETTER THAN RADIANT TYPE WT6E)

9. 1 X 36W  WEATHER PROOF TO IP 55 FLUORESCENT LUMINAIRE WITH TRIPHOSPHOR LAMPS AND ECG

10. 1 X 36W  WEATHER PROOF TO IP 55 FLUORESCENT LUMINAIRE WITH TRIPHOSPHOR LAMPS AND ECG

11. 1X26W COMPACT FLUORESCENT WALL/CEILING MOUNTED DECORATIVE BULKHEAD LUMINAIRE WITH CAST ALUMINIUM BODY, COOL WHITE LAMP & ECG (EQUAL OR BETTER THAN RADIANT TYPE DB-CC2)

12. 1 X 36W OPEN FLUORESCENT LUMINAIRE WITH ECG. (EQUAL OR BETTER THAN RADIANT TYPE JL25)

13. 1 X 36W OPEN FLUORESCENT LUMINAIRE WITH ECG. (EQUAL OR BETTER THAN RADIANT TYPE LS896 WITH A 70W MH LAMP MOUNTED ON A 4M GALVANIZED STEEL POLE.

14. 2-WAY LIGHT SWITCH

15. ONE LEVER LIGHT SWITCH

16. TWO LEVER LIGHT SWITCH

17. THREE LEVER LIGHT SWITCH

18. PHOtocell TO BE MOUNTED ON NORTH FACING SIDE OF BUILDING

19. 50mm SLEEVE 25mm CONDUIT

20. 10 40 20 5003 0 SCALE FOR REDUCED PLAN

21. LIGHTING LEGEND

22. SMALL POWER LEGEND

23. DB-CC1

24. DB-CC2

25. DB-CC3

26. DRAWINGS ISSUED

27. WorleyParsons RSA retains the copyright in all intellectual property, including designs and/or documents prepared in terms of this appointment for the project covered by the appointment. The reproduction or use of the design and/or documents have been paid for constitutes an infringement of copyright, and all rights are reserved.
1. Earth ring conductor must be installed a minimum of 1.5m from the nearest wall and buried at a minimum depth of 500mm.

2. Lightning protection system components shall be certified for use in lightning protection systems.

3. Lightning protection systems shall be designed and installed by a certified lightning protection company.

4. A minimum of two 70mm² bonding conductor connections shall be made to adjacent area structure earth rings.

See drawing C00290-00-EL-DES-0001-001 for earthing typical drawings.
1. Earth ring conductor must be installed a minimum of 1.5m from the nearest wall and buried at a minimum depth of 500mm.
2. Lightning protection system components shall be certified for use in lightning protection systems.
3. Lightning protection systems shall be designed and installed by a certified lightning protection company.
4. A minimum of two 70mm² bonding conductor connections shall be made to adjacent area structure earthing loops.

See drawing C00290-00-EL-DES-0001-001 for earthing typical drawings.

Notes:
- Earth electrode with cadwelded connection driven into earth a minimum of 3m.
- Down conductor.
- 70mm² bare copper earth wire.

See drawing C00290-00-EL-DAL-0009, stand number 247 for overview.
2. WHERE POWER CABLES ARE BURIED BELOW FOR LIGHTING INSTALLATION DETAILS REFER TO DRAWING C00290-00-EL-DES-0001-002.

3. WHERE SPECIFIED ON THE DRAWING, CONDUITS/SLEEVES SHALL BE INSTALLED.

4. ALL 3 CORE CABLES SHALL CONSIST OF 1 LIVE PHASE, 1 NEUTRAL CONDUCTOR AND A PROTECTED EARTH CONDUCTOR.

5. ALL 4 CORE CABLES SHALL CONSIST OF 3 LIVE PHASE CONDUCTORS AND 1 NEUTRAL CONDUCTOR WITH AN EXTERNAL BARE COPPER EARTH WIRE STRAPPED TO THE CABLE AT 1m INTERVALS.

CONDUCTOR LEGEND

1. 2.5mm² CONDUCTORS SHALL BE USED FOR ALL LIGHTING INSTALLATION.

2. 4mm² CONDUCTORS SHALL BE USED FOR ALL SOCKET OUTLET CIRCUITS.

3. 6mm² CONDUCTORS SHALL BE USED FOR ALL GEYSER AND STOVE CIRCUITS.

4. ALL 3 CORE CABLES SHALL CONSIST OF 1 LIVE PHASE, 1 NEUTRAL CONDUCTOR AND A PROTECTED EARTH CONDUCTOR.

SCHOOL - SMALL POWER LEGEND

- SINGLE PHASE DISCONNECTER (OFF LOAD ISOLATOR)
- SINGLE PHASE SWITCH DISCONNECTER
- SINGLE PHASE CIRCUIT BREAKER
- SINGLE PHASE CIRCUIT BREAKER FOR ISOLATION
- THREE PHASE SWITCH
- THREE PHASE DISCONNECTER (OFF LOAD ISOLATOR)
- THREE PHASE CIRCUIT BREAKER
- THREE PHASE CIRCUIT BREAKER FOR ISOLATION

SCHOOL - LARGE CLASSROOM B

- VOIP DATA POINT
- TV POINT
- SINGLE SOCKET OUTLET
- DOUBLE SOCKET OUTLET
- TWO LEVER LIGHT SWITCH
- THREE LEVER LIGHT SWITCH
- 2-WAY LIGHT SWITCH
- DISTRIBUTION BOARD LOCATION
- Schematic - School Site Kiosk
- Schematic - School Site Kiosk

Site Lighting & Power Layout - School

DRAWN BY: C Brandsen
CHECKED: L Padayachee 02/10/15
ISSUED FOR CONSTRUCTION

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ANADARKO DRAWING NUMBER

REFERENCE DRAWING

SCALE FOR REDUCED PLAN

10 40 20 50 3 0

NOTE
50mm ON ORIGINAL DRAWING
SEE DRAWING C00290-00-EL-DAL-0009, STAND NUMBER 247 FOR OVERVIEW

NOTES

1. 2.5mm² conductors shall be used for all lighting circuits.

2. 4mm² conductors shall be used for all socket outlet circuits.

3. 6mm² conductors shall be used for all geysers and stove circuits.

4. All 3 core cables shall consist of 1 live phase, 1 neutral conductor and a protected earth conductor.

5. All 4 core cables shall consist of 3 live phase conductors and 1 neutral conductor with an external bare copper earth wire strapped to the cable at 1m intervals.

CONDUCTOR LEGEND

1. 2.5mm² conductors shall be used for all lighting installation.

2. 4mm² conductors shall be used for all socket outlet circuits.

3. 6mm² conductors shall be used for all geysers and stove circuits.

4. All 3 core cables shall consist of 1 live phase, 1 neutral conductor and a protected earth conductor.

5. All 4 core cables shall consist of 3 live phase conductors and 1 neutral conductor with an external bare copper earth wire strapped to the cable at 1m intervals.

SCHOOL - SMALL POWER LEGEND

- Single phase disconnecter (off load isolator)
- Single phase switch disconnecter
- Single phase circuit breaker
- Single phase circuit breaker for isolation
- Three phase switch
- Three phase disconnecter (off load isolator)
- Three phase circuit breaker
- Three phase circuit breaker for isolation

SCHOOL - LARGE CLASSROOM B

- VOIP data point
- TV point
- Single socket outlet
- Double socket outlet
- Two lever light switch
- Three lever light switch
- 2-way light switch
- Distribution board location
- Schematic - school site kiosk
- Schematic - school site kiosk

Site lighting & power layout - school

Drawn by: C Brandsen
Checked: L Padayachee 02/10/15
Issued for construction

WorleyParsons RSA retains the copyright in all intellectual property, failures, discrepancies to the Engineer.
1. Lighting Layout - School Classroom Large

2. Lighting Layout - School Classroom Small

3. Lighting Layout - School Admin
1. 2.5mm² conductors shall be used for all lighting circuits.
2. 4mm² conductors shall be used for all socket outlet circuits.
3. 6mm² conductors shall be used for all geyser and stove circuits.
4. All 4 core cables shall consist of 3 live phase conductors and 1 neutral conductor with an external bare copper earth wire strapped to the cable at 1m intervals.
5. All 4 core cables shall consist of 3 live phase conductors and 1 neutral conductor with an external bare copper earth wire strapped to the cable at 1m intervals.
7. Single phase disconnector (on load isolator).
10. Three phase switch.
11. Three phase disconnector (off load isolator).
12. Three phase circuit breaker.
13. Three phase circuit breaker for isolation.
14. RCD protection.
1. Earth ring conductor must be installed a minimum of 1.5m from the nearest wall and buried at a minimum depth of 500mm.

2. Lightning protection system components shall be certified for use in lightning protection systems.

3. Lightning protection systems shall be designed and installed by a certified lightning protection company.

4. A minimum of two 70mm² bonding conductor connections shall be made to adjacent area structure earthing loops.

5. See drawing C00290-00-EL-DES-0001 for earthing typical drawings.

NOTE: See drawing C00290-00-EL-DAL-0009, stand number 245/7 for overview.
1. SINGLE PHASE DISCONNECTOR (OFF LOAD ISOLATOR)
2. SINGLE PHASE DISCONNECTOR
3. THREE PHASE SWITCH
4. THREE PHASE DISCONNECTOR
5. THREE PHASE DISCONNECTOR (OFF LOAD ISOLATOR)

NOTES:
- Single phase switch
- Single phase disconnecter (off load isolator)
- A road crossing or pathway, 2x 110mm
- See drawing
- Where specified on the drawing, for details conduits/sleeves shall be installed
- Three phase switch
- Three phase disconnecter
- Three phase switch disconnecter
- Three phase disconnecter (off load isolator)
- Three phase circuit breaker
- Three phase circuit breaker for isolation

CONDUCTOR LEGEND:
- 35mm² 4-core SW
- 25mm² 4-core SW
- 16mm² 3-core SW

ISSUED FOR:
- Construction

CONDUCTORS:
- 35mm² 4-core SWA
- 25mm² 4-core SWA
- 16mm² 3-core SW

DISCREPANCIES TO THE ENGINEER.

For lighting installation (overview)

- EA-MZ-CI0000-WOR-E02-00007-01
- C00290-00-EL-DES-0001-002
- C00290-00-EL-DAL-0035
- Market Small Power and Lighting
- EA-MZ-CI0100-WOR-E02-00730-01
- C00290-00-EL-DAL-0063
- Public Toilets Lighting layout
- EA-MZ-CI0100-WOR-E02-00108-01
- C00290-00-EL-DES-0001-002
- Typical Drawings Sheet 2

CONDUCTORS AND 1 neutral conductor with an external bare copper earth wire strapped to the cable at 1m intervals.

Public parking internal layouts
- 22 bays

Site lighting & power layout - market site

Lighting & Power Layout - Market Office

Full loads cable shall consist of live phase and neutral conductor with an external bare copper earth wire strapped to the cable at 1m intervals.

DC-MO

For all lighting circuits

- 2.1 35mm² 4-core SW
- 4mm² conductors shall be used for all socket outlet circuits
- 6mm² conductors shall be used for all geyser and stove circuits
- All 3 core cables shall consist of 1 live phase, 1 neutral conductor with an external bare copper earth wire strapped to the cable at 1m intervals

REFERENCES DRAWING
1 : 20

REFERENCES DRAWING
50mm ON ORIGINAL DRAWING
1. 2.5mm² conductors shall be used for all lighting circuits.

2. 4mm² conductors shall be used for all socket outlet circuits.

3. 6mm² conductors shall be used for all geyser and stove circuits.

4. All 3-core cables shall consist of 1 live phase conductor, 1 neutral conductor and a protected earth conductor.

5. All 4-core cables shall consist of 1 live phase conductors and 1 neutral conductor with an additional bare copper earth strap tied to the labels at 75 intervals.
9 MERCADO
LEGENDA / LEGEND
01 BLOCO PARA VENDAS
02 BLOCO MULTIFUINONAL - ADMINISTRAÇÃO DO MERCADO
03 MULTIPURPOSE BUILDING - ADMINISTRATION
04 PARQUINHAS PÚBLICAS
05 ESTACIONAMENTO PARA CLIENTES
06 CARGAS E DESCARGAS
07 ÁREA PARA ENSAIO
08 ÁREA PARA FUTURO EXPANSÃO
09 AÇO" ou semelhante, cor "AZTECH Anti-Dazzle Welded Sliding gate to specialist
Fence to be "Anti-Dazzle Welded Mesh Panel Fencing" com 2,1m de altura de acordo com as especificações do fabricante ou semelhante
Portão metálico de acordo com as especificações do especialista
WATER
01 02
01 EF
03 06
04 07
05 08
09 SP
## Community Facilities - Administration Centre Internal Drainage Connections

### Plan - Market Toilets

#### 1:50

- **Description**
  - **No.**
  - **110mm ND PVC Pipe**
  - **50mm ND PVC Pipe**
  - **20mm ND HDPE Pipe**

#### Details

- **Plan - Market Toilets**
  - **1:50**

- **Legend**
  - **50mm ND PVC Pipe**
  - **15mm COPPER Pipe**
  - **110mm ND PVC Pipe**
  - **20mm ND HDPE Pipe**
  - **40mm ND HDPE Pipe**

### Community Facilities - Community Centre Water Supply

#### Admin. Building

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Unit</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>201</td>
<td>20mm/15mm HDPE / COPPER ADAPTOR</td>
<td>m</td>
<td></td>
</tr>
<tr>
<td>202</td>
<td>60° ELBOW - COPPER</td>
<td></td>
<td></td>
</tr>
<tr>
<td>203</td>
<td>TOILETS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>204</td>
<td>STRAIGHT COUPLER, COPPER TO MALE CONNECTION</td>
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<td></td>
</tr>
<tr>
<td>205</td>
<td>KITCHEN SINK/ HAND WASH BASIN / SHOWER</td>
<td></td>
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</tr>
<tr>
<td>206</td>
<td>WALL PLATE ELBOW TAP CONNECTOR, COPPER TO FEMALE</td>
<td></td>
<td></td>
</tr>
<tr>
<td>207</td>
<td>NOTE: INTERNAL PIPE TO BE INSTALLED FLUSH AGAINST</td>
<td></td>
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</tr>
</tbody>
</table>

### Notes

- CONCRETE HOLLOW BLOCK WALL
- ISOLATING VALVE

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**TYPICAL WATER SUPPLY DETAIL AT BUILDINGS**

- **No.**
- **Description**
- **Unit**
- **Quantity**

- **ADM BUILDING**

- **KITCHEN SINK/ HAND WASH BASIN / SHOWER**
- **WALL PLATE ELBOW TAP CONNECTOR, COPPER TO FEMALE**

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All dimensions must be verified on site before the works commence. Refer any discrepancies to the Engineer.
ESTE DESENHO É PARA SER LIDO EM CONJUNTO COM:

THIS DRAWINGS IS TO BE READ IN CONJUNCTION WITH:

ARCHITECTURAL
EA-MZ-CIO100-WOR-E04-00700-01
EA-MZ-CIO100-WOR-E04-00705-01
EA-MZ-CIO100-WOR-E04-00921-01
EA-MZ-CIO100-WOR-E02-01400-01

WATER
EA-MZ-CIO100-WOR-E05-00795-01
EA-MZ-CIO100-WOR-E05-00795-02
EA-MZ-CIO100-WOR-E05-00795-03
EA-MZ-CIO100-WOR-E05-00112-01

ELECTRICAL
EA-MZ-CIO100-WOR-E02-00730-01
EA-MZ-CIO100-WOR-E02-00731-01
EA-MZ-CIO100-WOR-E02-00732-01

ISSSUED FOR CONSTRUCTION

Total Áreas for sidewalk pavement: approx. 3640 m²