Annex B

Structural General Notes

1. All levels are relative to survey Points and Grids

2. Gravel fill to be laid in layers not exceeding 150mm, 97% MDD

3. Crushed Stone Base to be compacted to 30mpa, plain concrete 20mpa, blinding concrete 15mpa, all reinforced concrete on ground to have with C15 75mm concrete blinding.

5. Minimum cover to reinforcement in foundations to be 75mm, cover to columns = 40mm, beams and slabs = 25mm.

6. Allowable bearing pressure = FOR RAILING AT 100mm c/c 225kPa VERTICAL SPACING

7. Structural steel to be grade TIMBER COPING SCREWED ON 6mm THICK

8. Reinforcement steel to be of minimum yield strength of GALVANIZED MS PLATE WELDED TO T SECTION

10. Before any member alteration or substitution, consult the engineer

11. Angles to the Back Anchor Cables range from 43° to 56°

12. Back stay Tension ranges from 650kN to 700kN AT 550mm c/c

Deck Top - Typical Terrace

Deck Top - Typical Terrace Frames - Transition

Deck Top - Typical Terrace Details

National Forest Authority
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P.O. Box 1057
Kampala, Uganda

Funding agency

Drawn: MSP
Chkd: EA & KSJ

Scale 1:25
Aquila Gallery Ltd

Typical Saddle Top for all Pylons

Dimensions are in millimeters unless stated otherwise and shall be checked on site prior to works commencing. The drawing is to be read in conjunction with all other relevant drawings, bills of quantities and specifications. Any discrepancies shall be reported to the Architect.

1. All levels are relative to survey Points and Grids
2. Gravel fill to be laid in layers not exceeding 150mm, compacted to 97% MDD
3. Crushed Stone Base to be compacted to 30% CBR
5. Minimum cover to reinforcement in foundations to be 75mm, cover to columns = 40mm, beams and slabs = 25mm.
6. Allowable bearing pressure = 225kPa
7. Structural timber to be sawn eucalyptus pressure impregnated with preservative and seasoned to 14% moisture content
8. Structural steel to be grade S275
9. Reinforcement steel to be of minimum yield strength of 500MPa
10. Before any member alteration or substitution, consult the engineer

Structural Deck Top

M12 BOLTS AT 800mm CENTRES

200mm MIN SAG GAP

Typical Deck Section - Hook Detail

12mm DIA IWRC CABLE

1 : 10 S118 S117

Deck Top - Pylons - Connection 3

Pylon Connection Section 4

150x100x15mm PLATE WELDED TO TOP SADDLE PLATE

Structural Deck Top

1 : 25 S118 S103

Span 01-Section 01 - Camber Connection

1 : 10 S118 S103

Span 01-Section 01 - Walkway to Terrace Connection

Typical Cabble Saddle at Top Pylon Leg

Typical Saddle Top for all Pylons

Typical Saddle Section

Aquila Gallery Ltd

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Structural General Notes

1. All levels are relative to survey points and grids.

2. Gravel fill to be laid in layers not exceeding 150mm, compacted to 97% MDD.

3. Crushed Stone Base to be compacted to 30% CBR.

4. Minimum concrete grade for reinforced concrete to be 30MPa, plain concrete 20MPa, blinding concrete 15MPa. All reinforced concrete on ground to have 75mm with C15 concrete blinding.

5. Minimum cover to reinforcement in foundations to be 75mm, cover to columns = 40mm, beams and slabs = 25mm.

6. Allowable bearing pressure = 225kPa.

7. Structural timber to be sawn eucalyptus pressure impregnated with preservative and seasoned to 14% moisture content.

8. Structural steel to be grade S275.

9. Reinforcement steel to be of minimum yield strength of 500MPa.

10. Before any member alteration or substitution, consult the engineer.

11. Angles to the Back Anchor Cables range from 43° to 48°, not to exceed 56°, designed to prevent slacking.

12. Back stay Tension ranges from 650kN to 700kN.


### Structural General Notes
1. All levels are relative to survey Points and Grids.
2. Gravel fill to be laid in layers not exceeding 150mm, compacted to 97%.
3. Min. concrete grade for reinforced concrete to be 30mpa, plain concrete 20mpa, blinding concrete 15mpa. 
   - All reinforced concrete on ground to have 75mm concrete blinding.
5. Structural timber to be sawn eucalyptus pressure treated.
6. Reinforcement steel to be of minimum yield strength of 500MPa.

### Dimensions

<table>
<thead>
<tr>
<th>Description</th>
<th>X</th>
<th>Y</th>
<th>Z</th>
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</thead>
<tbody>
<tr>
<td>Pylon Top 01</td>
<td>+461.83 m</td>
<td>+461.83 m</td>
<td>+461.83 m</td>
</tr>
<tr>
<td>Pylon Top 02</td>
<td>+458.83 m</td>
<td>+458.83 m</td>
<td>+458.83 m</td>
</tr>
<tr>
<td>Pylon Mid Level 01</td>
<td>+455.83 m</td>
<td>+455.83 m</td>
<td>+455.83 m</td>
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<td>Pylon Mid Level 02</td>
<td>+452.83 m</td>
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<td>+452.83 m</td>
</tr>
<tr>
<td>Pylon Mid Level 03</td>
<td>+449.83 m</td>
<td>+449.83 m</td>
<td>+449.83 m</td>
</tr>
<tr>
<td>Pylon Base</td>
<td>+446.83 m</td>
<td>+446.83 m</td>
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</tr>
</tbody>
</table>

### Details

- **Base of Pylon**: +1442.83 m
- **Pylon Mid Level 01**: +1455.83 m
- **Pylon Mid Level 02**: +1458.83 m
- **Pylon P1C**: +1461.83 m

### Notes

- **Client**: Aquila Gallery Ltd P.O. Box 1057 Kampala, Uganda
- **Funding agency**: USAID PO Box 7856 Kampala, Uganda
- **Lead consultant Architect**: Arch. Felix Holland | ARB no: 206 | Pract. cert.: 3166
- **Drawing title Issue type**: PYLON DETAILS_1

### Specifications

- **Base of Pylons**: 1:100
- **Scale**: As indicated
- **Drawing no. Discipline Project**: S210 Struc
- **Designer: MSP Drawn: MSP Chkd: EA & KSJ**
Pylon P1F

Pylon P2D

Pylon P2E

Pylon P2F

PYLON DETAILS

PYLON DETAILS_3

Structural Deck Top

Base of Pylon

Top of Pylon

Structural Deck Top

Base of Pylon

Pylon Mid Level

Pylon Top

Pylon Mid Level

Pylon Top

Structural Deck Top

Base of Pylon

Pylon Mid Level

Pylon Top

Pylon Mid Level

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Structural Deck Top

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Base of Pylon

Pylon Mid Level

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Pylon Mid Level

Pylon Top

Structural Deck Top

Base of Pylon