LAYOUT OF PURLINS

TREATED TIMBER PURLINS 70 X 70
BALAU OF CLASS 070 BOLTED TO NEW R.C. BEAM
USING M10 ELECTROPLATED RAIL BOLTS AT 300mm c/c

TREATED TIMBER PURLINS 70 X 70
BALAU OF CLASS 070 BOLTED TO NEW R.C. BEAM
USING M10 ELECTROPLATED RAIL BOLTS AT 300mm c/c

LAYOUT OF PURLINS

CONSERVATION & RESTORATION OF TOUR HOLLANDAIS
AT VIEUX GRAND PORT

LEAD ENGINEER: S.P. ANADACHER

Drg. No. NHF/TH/ST05
LAYOUT OF RAFTERS

6 nos. 150 x 100 TREATED TIMBER BAMAU OF CLASS 070

CONSERVATION & RESTORATION OF TOUR HOLLANDAIS
AT VIEUX GRAND PORT
List Of Architectural and Structural Drawings

1. NHF/TH/01 10. NHF/TH/ST01
2. NHF/TH/02 11. NHF/TH/ST02
3. NHF/TH/03 12. NHF/TH/ST03
4. NHF/TH/04 13. NHF/TH/ST04
5. NHF/TH/05 14. NHF/TH/ST05
6. NHF/TH/06 15. NHF/TH/ST06
7. NHF/TH/07 16. NHF/TH/ST07
8. NHF/TH/08 17. NHF/TH/ST08
9. NHF/TH/09 18. NHF/TH/ST09

List Of Electrical Drawings

19. NHF/TH/EL/19
20. NHF/TH/EL/20

LOCATION PLAN

Project
RESTORATION OF TOUR HOLLANDAIS
AT VIEUX GRAND PORT

Title
LOCATION PLANS

Lead Architect / Project Coordinator
R. Ramjit

S.T.D. Officer
D. Poonoo

Scale
1:75

Date
Mar 2019

Date Printed

DWG. No.
NHF/TH/01

Rev.

Lead Engineer
S. Ansahchee

Electrical Engineer
S. Boodoo

Quantity Surveyor
K. Pedarath
PART SITE PLAN
CONSERVATION & RESTORATION OF TOUR HOLLANDAIS
AT VIEUX GRAND PORT

SECTION Y-Y
R.C DETAILS OF RAMP

NOTES:
ALL POST TREATED PINE TO BE FIXED ON CONCRETE
MASS OF GRADE 30/20 OF SIZE
0.4m x 0.4m x 0.5m deep. ALL HORIZONTAL TREATED
PINES TO BE FIXED WITH POST TREATED PINS
WITH GALVANISED WOOD BOLT OF GRADE 4.8.
## SCHEDULE OF IRONWORKS

<table>
<thead>
<tr>
<th>DOOR</th>
<th>SIZE</th>
<th>FRAME</th>
<th>LEAF</th>
<th>Fire Resistance</th>
<th>BOLTS</th>
<th>HINGES</th>
<th>LOCKS and LATCHES</th>
<th>HANDLE</th>
<th>DOOR FRAME FINISH</th>
<th>MISCELLANEOUS</th>
</tr>
</thead>
<tbody>
<tr>
<td>D1</td>
<td>830 x 2150</td>
<td>Timber</td>
<td>1</td>
<td>1 hr</td>
<td>1 Pair of heavy duty brass both hinges to BS 7932 class 5 - fire resistance to BS 476 part 22</td>
<td>1 Pair of heavy duty brass both hinges to BS 7932 class 5 - fire resistance to BS 476 part 22</td>
<td>Apply one coat of oil based polyurethane and allow to dry for 24hrs. Then apply a second coat of oil based polyurethane and allow to dry another 24hrs. Then apply a lacquer sealer coat.</td>
<td>1. For automatic door closer - see notes. 2. For glass specification - see notes.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>D2</td>
<td>560 x 2150</td>
<td>Timber</td>
<td>2</td>
<td>1 hr</td>
<td>1 Pair of heavy duty stop hinge (as per framing) and paint</td>
<td>1 Pair of heavy duty stop hinge (as per framing) and paint</td>
<td>Apply one coat of oil based polyurethane and allow to dry for 24hrs. Then apply a second coat of oil based polyurethane and allow to dry another 24hrs. Then apply a lacquer sealer coat.</td>
<td>Kick &amp; Push plate silver anodized 3.5mm thick 200mm wide on both sides BS 2911.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## NOTES ON OPENINGS:

1. All timber for openings to be clear timber.
2. All timber to be kiln dry matured. (Certificate to be submitted for approval).
3. Moisture content of wood/timber not to exceed 12%. (Certificate to be submitted for approval).
4. All fixtures of doors and windows structure to be vandal proof.
5. All openings, flooring and wooden members to be polished & treated with anti - termite products (10 years Warranty certificate to be submitted).
6. Handlès & Locks to be three (3) points locks.
7. Glazing to doors & windows to be 6.0mm except otherwise stated.
8. Pedestrian gate to be hot dipped galvanised and to be painted with one coat of undercoat (primer) followed by 2 coats of gloss enamelled paint (colour to Architect's Approval).

## MEZZANINE FLOOR PLAN

[Diagram of the Mezzanine Floor Plan]

## ROOF PLAN

[Diagram of the Roof Plan]

## PLAN SHOWING OPENINGS

[Diagram showing openings]

---

**Project:** RESTORATION OF TOUR HOLLANDAIS AT VIEUX GRAND PORT

**Title:** SCHEDULE OF FINISHES & OTHER DETAILS

**Lead Architect / Project Coordinator:** R. Ramji

**S.T.O. Officer:** D. Poonsie

**Scale:** 1:75

**Date:** Mar. 2019

**Date Printed:**

**Quantity Surveyor:** K. Padarath

**National Heritage Board:** NHF/TH/05

**Rev.**
SECTION 2 - 2 (RAMP DETAILS)

SECTION 1 - 1

Plastic coated New welded mesh fencing panels

existing stairs to La Tour to be made good to Engineer satisfaction and to be concrete bush hammered finish to Arch's approval

混凝土衬板, 锤击成形至建筑师认可

所有坡道应混凝土衬板, 锤击成形至建筑师认可

PROJECT
RESTORATION OF TOUR HOLLANDAIS AT VIEUX GRAND PORT

Lead Architect / Project Coordinator: R. Ramjit
Lead Engineer: S. Aundhachee
Electrical Engineer: S. Boofoo
Quantity Surveyor: K. Padaruth

S.T.D Officer: D. Poontle
Scale: 1:50
Date: Mar 2019
DWG. No.: NHF/TH/07

Rev.
Note:

1. All trees marked WD are trees to be felled down. Trees on the left hand side and cart away rear of the tower to be trimmed.

2. All ramp walls to be rendered and painted to Architect approval.

3. Spray systemic herbicide on all organic components and small plants growing between the stone joints and remove with care after complete drying and decaying.

4. VIEUX GRAND PORT ROAD (B28)
LAYOUT OF STAIRCASE

DETAILS OF STEPS

VIEW A

DETAILS OF STAIRCASE AT GROUND FLOOR

SECTION B-B (REFER TO DRG NO. NHP/TH/ST01)
DETAILS OF STAIRCASE AT GROUND FLOOR

NOTE: ALL WELD TO BE 8mm CONTINUOUS PILLET WELD

VIEW B

FIXING DETAILS OF STAIRCASE AT MEZZANINE FLOOR

CONSERVATION & RESTORATION OF TOUR HOLLANDAIS
AT VIEUX GRAND PORT

STAIRCASE DETAILS

LEAD ENGINEER
S.P. ANADAKERE

T.D.O

Scale
1:75

Date

Date Printed

Drg. No. NHP/TH/ST07
LAYOUT OF RAFTERS AT MEZZANINE LEVEL

SECTION X-X

MAIN RAFTERS

TREATED TIMBER RAFTERS 200 X 100
BALAU OF CLASS D70

2 Nos. TREATED TIMBER RAFTERS 200 X 100
BALAU OF CLASS D70 BOLTED WITH GALVANIZED W16
BOLTS OF GRADE 4.6 @ 0.45m C/C STAGGERED

150 X 35mm THICK BALAU TIMBER PLANK OF CLASS D70
TO BE SCREWED / NUTTED TO RAFTERS STRUCTURE
TO BOTH ENDS & ARCHITECT'S APPROVAL TONGUE AND GROOVE

TREATED TIMBER PURLINS 100 X 100
BALAU OF CLASS D70

LAYOUT OF PURLINS

TREATED TIMBER PURLINS 100 X 50
BALAU OF CLASS D70 TO BE NUTTED AT ENDS OF
PURLINS WITH MATERIAL ON TOP AS PER ARCHITECT

CONSERVATION & RESTORATION OF TOUR HOLLANDAIS
AT VIEUX GRAND PORT

DRG. No. NHF/TH/ST02
SECTION A-A
DETAILS OF STONE PAVING AND
INTERNAL GROUND FLOOR OF TOWER

CONSERVATION & RESTORATION OF TOUR HOLLANDAIS
AT VIEUX GRAND PORT

LEAD ENGINEER: S.P. ANADACHII
T.D.O:
Scale: 1:75
Date:
Date Printed:
Comp No.

DRG. No.: NHF/TH/ST01

 exists concrete floor to be removed carefully
100mm compacted crusher run to
engineer's approval
25mm compacted rock sand
one layer of polythene
sheeting 0.3mm thick
mesh a12

150 (existing paving to be removed carefully)
25mm compacted rock sand
one layer of polythene
sheeting 0.3mm thick
mesh a12

300mm compacted crusher run 0/20
to engineer's approval + selected fill
compacted in layers & where required

50mm crushed stone with
top surface flat
150

M.L.L.=40mm

PLAN VIEW
I. STEPPING TO BE CLOSELY FOLLOWED BY THE CONTRACTOR WHILE IMPLEMENTING WORKS FOR REPOINTING WORKS PRIOR TO THE IMPLEMENTATION OF THE ROOF SLAB BUT NOT LIMITED TO:-

- Erecting scaffolding with necessary bracings, platforms inside and outside the wall; and also providing dust shield around the wall;
- Removal carefully of the vegetation on the internal and external surface of the wall;
- Cleaning of all internal and external joints by water blasting method or other approved means that will not have a negative impact on the environment;
- Removal carefully of all loose mortar/concrete from the joints with hand chisels and mash hammers;
- Removal carefully of all concrete from opening frames where required and as instructed by the engineer on site with approved hand held equipment;
- Opening of all joints to at least 35mm inside the wall with hand chisels and mash hammers;
- Rinsing all the joints with a jet of water to remove dust and all loose particles;
- Fixing of new reinforcement and cast of the elements as per details;
- Wetting the joints, but with no standing water, prior to filling of the joints with mortar in three layers while allowing first layer to harden prior to the application of the next one;
- Curing of the joints and new concrete elements after one day of repointing by spraying water on them to ensure the surfaces remain wet during the first 7 days.

NOTES:

a) Grade of concrete to be 35/20 i.e 35 N/mm² on cube strength, except where shown.

b) Mortar type measured by volume [modern mortar pigment will be necessary to match original colour as instructed on site].

CEMENT | HYDRATED LIME | SAND
-------|---------------|-------
1      | 1             | 5 TO 6

ii. STEPPING TO BE CLOSELY FOLLOWED BY THE CONTRACTOR WHILE IMPLEMENTING WORKS FOR THE ROOF SLAB BUT NOT LIMITED TO:-

- Removal carefully of the damage top part about over the full width of the wall from top by cutting with a hand held cutting equipment; to engineer's approval
- Preparation of the reinforced concrete gutter beam with galvanised anchored bolts, gargoyles and overflows as shown in the drawings;
- Bolting of treated timber balau rafters on reinforced concrete gutter beam;
- Fixing of treated timber balau purlins on treated timber rafters with galvanised screws as indicated in drawings;
- Fixing of zinc alum corrugated sheeting 0.7mm thick on treated timber purlins with galvanised screws, rubber tape, galvanised stitching screws etc as per manufacturer's manual;
- Plastic supports to roof sheeting must be provided at every crest of the sheets at
- Removing carefully of existing ground floor slab with hand held breaker without causing damage to other parts;
- Removal of soft spot and backfilling with crusher run/0/20 to level and compacted to engineer's approval;
- Placing of one layer of polythene sheeting of 0.23mm thick;
- Placing of mesh A 142 and casting of 100mm concrete as new floor as per details; and
- Laying of 20mm thick screed reinforced with a galvanised chicken wire.

CONSERVATION & RESTORATION OF TOUR HOLLANDAIS AT VIEUX GRAND PORT
**GENERAL**
1. All structural drawings are to be read in conjunction with all ARCHITECT’S DRAWINGS and specifications and with such other written instructions as may be issued during the course of contract.
2. All discrepancies shall be referred to the Engineer for decision before proceeding with the works.
3. All dimensions of work as shown on drawings shall be checked by the contractor before commencing construction. The drawings shall not be scaled.
4. Workmanship and materials are to be in accordance with the relevant Mauritian Standards or British Standards and local statutory authorities regulations.
5. The contractor shall ensure that the structure is in a stable condition and ensuring no part shall be overstressed under construction activities.
6. All dimensions are in millimetres unless stated otherwise and all levels are expressed in millimetres.
7. The contractor shall take all necessary precautions so as not to jeopardise the bases of existing buildings and any work underpinning works are required. (Engineer’s approval shall be sought.)

**STRUCTURAL CONCRETE**
1. All workmanship and materials shall be in accordance with BS 8110 – The Structural Use of Concrete.
2. Minimum cover (mm) to all reinforcement unless otherwise shown shall be as follows:

<table>
<thead>
<tr>
<th>Element</th>
<th>Cover (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>(a) Foundation against earth face</td>
<td>75</td>
</tr>
<tr>
<td>(b) Foundation against blinding</td>
<td>50</td>
</tr>
<tr>
<td>(c) Wall below ground or against water face</td>
<td>40</td>
</tr>
<tr>
<td>(d) Column &gt; 200mm</td>
<td>35</td>
</tr>
<tr>
<td>&lt; 200mm</td>
<td>25</td>
</tr>
<tr>
<td>(e) Ground beams</td>
<td>35</td>
</tr>
<tr>
<td>(f) Beams</td>
<td>30</td>
</tr>
<tr>
<td>(g) Slab on fill</td>
<td>30</td>
</tr>
<tr>
<td>(h) Suspended slabs</td>
<td>25</td>
</tr>
<tr>
<td>(i) Wall</td>
<td>30</td>
</tr>
</tbody>
</table>

3. Size of concrete elements do not include thickness of applied finishes.
4. Beam depths are written first and include slab thickness.
5. No holes or embedment of pipes other than those shown on the structural drawings shall be made in concrete members without prior written approval of the Engineer.
6. Construction joints shall be properly constructed as specified and made only where shown or specifically approved by the Engineer.
7. Reinforcement is represented diagrammatically and not necessarily shown in true projection.
8. Welding of reinforcement shall not be permitted without the approval of the Engineer.
9. All reinforcement shall be securely supported in its correct position during concreting by approved bar chairs or spacers.
10. Reinforcement shall be checked by the Engineer and a written approval of the Engineer shall be obtained before concreting.
11. Reinforcement symbols:
   - All reinforcement to comply with MS 10 Mauritian standard for steel bars for the reinforcement of concrete.
   - Y = Hot rolled deformed bar – grade 425 (i.e. minimum yield strength 425 N/mm²)
   - R = Structural grade mild steel plain round bar – grade 250 N/mm²
   - The number following bar symbol is the nominal bar diameter in millimetres.

12. Concrete grades shall be as follows unless otherwise shown on drawings:

<table>
<thead>
<tr>
<th>Element</th>
<th>Grade of Concrete</th>
<th>Fck (N/mm²)</th>
</tr>
</thead>
<tbody>
<tr>
<td>All structural concrete</td>
<td>35/20</td>
<td>35</td>
</tr>
</tbody>
</table>

**FOUNDATION**
1. All materials and workmanship shall be in accordance with BS 8034 Code of Practice for Foundations where not inconsistent with the specification.
2. Pad/Combined and Strip footing shall be founded at depth below ground level shown on the drawings or as instructed to site by Engineer. Engineer’s written approval shall be obtained before concreting any foundation.

**CONCRETE BLOCKWORK**
1. All workmanship and materials shall be in accordance with BS 5629 – Code of practice for use of masonry.
2. Concrete block shall be manufactured on accordance with BS 6073 – Precast concrete masonry units. They shall be cellular blocks of grade A 3.5 N/mm².
3. The mortar for laying blocks shall consist of 1 part Portland cement : 3 to 4 parts of sand and an approved plasteriser unless otherwise specified.
4. Back reinforcement to masonry shall be as shown on the drawings.
5. Reinforced concrete shall to the blockwork where required shall be of 25/10 with reinforcement as specified.
6. All concrete blocks to be laid first before concreting of columns or beams unless otherwise instructed by the Engineer.

**STEEL**
1. All dimensions are in millimetres.
2. All steel members are of grade 43 and should be galvanised to 85 microns.
3. All bolts, nuts and washers are of grade 8.8 unless otherwise specified and should be galvanised to 85 microns.
4. All weld to be twin continuous fillet unless otherwise specified.
5. All bolts, nuts, washers and screws are to be stainless and of grade 316 unless otherwise specified.

**TIMBER**
1. All timber sections to be of minimum Grade D70 and conform to the requirements of BS5268.
2. All bolts should be of Grade 4.6 and Nuts Grade 4 as per BS 4320. Washers 50mm Φ and 4mm thick and galvanised to 85 microns except where indicated. Steel Work should be as per specified in notes for structural steel above.
3. All timber should be treated and finishes should be as per Architect’s requirements.
VIEUX GRAND PORT ROAD (B28)

Towards Malpebourg