Project Name
Enlargement of the medical waste treatment facility at Johor Al deek

Design By:

RAI CONSULT

May 2022
ARCHITECTURAL DRAWINGS
# Architectural Drawings List

<table>
<thead>
<tr>
<th>Drawing #</th>
<th>Drawing Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>A01</td>
<td>Architectural Drawings List</td>
</tr>
<tr>
<td>A02</td>
<td>Shed Plan</td>
</tr>
<tr>
<td>A03</td>
<td>Ground Plan</td>
</tr>
<tr>
<td>A04</td>
<td>Shed Furnishing Plan</td>
</tr>
<tr>
<td>A05</td>
<td>Shed Top View</td>
</tr>
<tr>
<td>A06</td>
<td>Southern &amp; Western Elevations</td>
</tr>
<tr>
<td>A07</td>
<td>Northern &amp; Eastern Elevations</td>
</tr>
<tr>
<td>A08</td>
<td>Gate &amp; Windows Details 1-4</td>
</tr>
<tr>
<td>A09</td>
<td>Gate &amp; Windows Details 2-4</td>
</tr>
</tbody>
</table>

**Scale:** 1:100

**Date:** April, 2022

**Designed by:** Rai Consult

**Drawn by:** Rai Consult

**Checked by:** Rai Consult
Ground Plan

Street

INCINERATOR_1

INCINERATOR_2

FUEL TANKS STAND

Main Entrance

Existing wall block 40x20x20 cm: 2.4 m height

Scale: 1:100

April, 2022

CLIENT:
OWNER:
CONSULTANT:

RAI CONSULT

Date: April, 2022
Scale: 1:100
Designed by: Rai Consult
Drawn by: Rai Consult
Checked by: Rai Consult
Drawing name: A03
Steel Sliding Gate 1 Details
STRUCTURAL DRAWINGS
## Structural Drawings List

<table>
<thead>
<tr>
<th>Drawing #</th>
<th>Drawing Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>S01</td>
<td>Structural Drawings List</td>
</tr>
<tr>
<td>S02</td>
<td>Notes</td>
</tr>
<tr>
<td>S03</td>
<td>COLUMNS AXIS</td>
</tr>
<tr>
<td>S04</td>
<td>DETAILS OF FOUNDATION AND C.B</td>
</tr>
<tr>
<td>S05</td>
<td>DETAILS OF STEEL ROOF</td>
</tr>
<tr>
<td>S06</td>
<td>TRUSS DETAILS</td>
</tr>
<tr>
<td>S07</td>
<td>Piles DETAILS</td>
</tr>
<tr>
<td>S08</td>
<td>Piles Cage DETAILS</td>
</tr>
</tbody>
</table>
GENERAL NOTES

- All measurements are in meters unless otherwise stated.
- 1. Ensure all electrical systems are installed and tested.
- 2. Ensure all plumbing systems are installed and tested.
- 3. Ensure all mechanical systems are installed and tested.
- 4. Ensure all structural systems are installed and tested.
- 5. Ensure all HVAC systems are installed and tested.
- 6. Ensure all fire protection systems are installed and tested.
- 7. Ensure all lighting systems are installed and tested.
- 8. Ensure all communication systems are installed and tested.
- 9. Ensure all security systems are installed and tested.
- 10. Ensure all furniture and fixtures are installed and tested.

S02
DETAILS OF FOUNDATION AND G.B

DETAILS OF F2

DETAILS OF GB (SEC. 1-1)

DETAILS OF MAIN COLUMNS

DETAILS OF SECONDARY COLUMNS

Existing ground beam

Stub on Grade t=15cm
#8/20cm EW TAB

4.00

S04
General notes and specifications

1. All dimensions & levels are in meter unless otherwise noted.
2. Steel used A992 with Fy=50 Ksi & Fu=50 Ksi.
3. All fillet welds to be 8mm thickness unless otherwise noted.
4. Tensile strength of the electrode metal is 700XX (50 ksi).
5. Covering corrugated sheets are of thickness 0.5mm.
6. All purlins must riveted with sandwich panels.
7. Contractor have to make shopdrawings for all elements.
8. All frame members are connected together with 8mm fillet welding.
9. All bolts A307 bolts, Fy=48 and Fnv=24 for shear, 45 ksi in tension (ASTM).
10. All corrugated sheet connections and overlap should be sites enough to work as a water proof.
11. All steel standard sections should satisfy AISC specifications for standard hot rolled section.

DETAIL OF FUEL TANKS STAND

DETAIL OF FOOTING F

DETAILS OF STEEL ROOF
TRUSS DETAILS

1:100

Sec. Truss Structure

At Long sides

CLIENT:

OWNER:

CONSULTANT:

RAI CONSULT

Project Name:

April, 2022

Drawn by: Rai Consult

Checked by: Rai Consult

Designed by: Rai Consult

Data: April, 2022

Scale: 1:100

Drawing number: S06
Piles Cage DETAILS

2 mm Galvanized Steel Wire Mesh (8x8x12mm)

Coloured Steel Plate 80/100/5mm

New Door
Existing Wall

Coloured Steel Flange 80/80/3mm
## ELECTRICAL Drawings List

<table>
<thead>
<tr>
<th>Drawing #</th>
<th>Drawing Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>E01</td>
<td>ELECTRICAL Drawings List</td>
</tr>
<tr>
<td>E02</td>
<td>Lighting Network Plan</td>
</tr>
<tr>
<td>E03</td>
<td>Power Network Plan</td>
</tr>
<tr>
<td>E04</td>
<td>Power Network Plan</td>
</tr>
<tr>
<td>E05</td>
<td>Sub-MOB</td>
</tr>
<tr>
<td>E06</td>
<td>CCTV Network</td>
</tr>
<tr>
<td>E07</td>
<td>Cable Tray</td>
</tr>
</tbody>
</table>

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Main Entrance

TWO Gang One Way, 220 V Ac, 10 A, Waterproof IP65

WP. Single Socket, 220 V Ac, 16 A, H=60cm, waterproof cover

LED lighting waterproof 120cm, 32W, 220V, IP44 or above

Lighting Network Plan

Main Entrance

Fuel Tank
Power Network Plan

- LED lighting waterproof 120cm, 32W, 220V
- TWO Gang One Way, 220 V Ac, 10 A
- WP. Single Socket, 220 V Ac, 16 A, H=60cm

Main Entrance
Fuel Tank

Scale: 1:100

Data: April, 2022

Designed by: Rai Consult
Drawn by: Rai Consult
Checked by: Rai Consult

Drawing number: E03
Power Network Plan

2-inch PE double wall corrugated underground cable protection pipe

Main Entrance

Fuel Tank
Sub-MDB

MDB LAYOUT

SCALE:

April, 2022

Data:

Designed by: Rai Consult

Drawing by: Rai Consult

Checked by: Rai Consult

Drawing number:

E05

CLIENT:

OWNER:

CONSULTANT:

RAI CONSULT

Project Name:

Sub-MDB
Fuel Tank

Analog Camera

BNC Cables with power cable for CCTV Cameras

Analog Camera

BNC Cables with power cable for CCTV Cameras

CCTV Network

E06

April, 2022

Designed by: Rai Consult
Checked by: Rai Consult

Drawing number: E06
MECHANICAL DRAWINGS
<table>
<thead>
<tr>
<th>Drawing #</th>
<th>Drawing Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>M01</td>
<td>Mechanical Drawings List</td>
</tr>
<tr>
<td>M02</td>
<td>Sewage Plan</td>
</tr>
<tr>
<td>M03</td>
<td>Fire Fighting Plan</td>
</tr>
<tr>
<td>M04</td>
<td>Fire Fighting Plan</td>
</tr>
<tr>
<td>M05</td>
<td>DETAILS</td>
</tr>
</tbody>
</table>
Street

Main Entrance

Fuel Tank

Fire Fighting Plan

Ceiling Mounted Automatic Powder Fire Extinguisher

Wall Mounted Manual Gas and Powder Fire Extinguisher
TYPICAL MANHOLE SECTION
NOT TO SCALE

TYPICAL PLANS M.H. BENCHMARK
NOT TO SCALE

FLOOR CLEANOUT DETAIL
(NOT TO SCALE)

PIPE SLEEVE DETAILS

FLOOR DRAIN DETAIL

DETAILS
SUPPLIES DRAWINGS
Trolley Design

Dimensions:
- 30x30x1 mm Rectangular Galvanized Steel Pipe
- 2 mm Galvanized Steel Grill
- 4" Swivel Wheel
- 300 mm x 500 mm x 1200 mm

Materials:
- Galvanized Steel

Client, Owner, and Consultant information is also present but not directly translatable.