SAHAMATI NEPAL
GAINDAKOT-5, NAWALPARASI, NEPAL

Market Centre Development
DESIGN DRAWINGS

APRIL, 2021

BONAFIDE ENGINEERING CONSULTANCY PVT. LTD.
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MASTERPLAN
ARCHITECTURAL DRAWINGS
BLOCK A
GROUND FLOOR PLAN
Area - 1242.00 SQ.FT

HOMESTYLE DEVELOPMENT

Project: Market Centre Development

Design by: Ar. Suvekshya Acharya
Drawn by: Ar. Suvekshya Acharya
Checked by: Er. Amit Jung Subedi

Scale: 1:96
Date: April, 2021

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DOORS AND WINDOWS SCHEDULE

BLOCK-A

<table>
<thead>
<tr>
<th>NO.</th>
<th>SYMBOL</th>
<th>DESCRIPTION</th>
<th>L x H</th>
<th>TOTAL NOs.</th>
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<tr>
<td>1</td>
<td>D1</td>
<td>Door 1</td>
<td>3'-0&quot; x 7'-0&quot;</td>
<td>4</td>
</tr>
<tr>
<td>2</td>
<td>D2</td>
<td>Door 2</td>
<td>3'-0&quot; x 7'-0&quot;</td>
<td>1</td>
</tr>
<tr>
<td>3</td>
<td>W1</td>
<td>Window 1</td>
<td>4'-0&quot; x 4'-0&quot;</td>
<td>2</td>
</tr>
<tr>
<td>4</td>
<td>V1</td>
<td>VENTILATION</td>
<td>2'-0&quot; x 1'-0&quot;</td>
<td>2</td>
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<tr>
<td>5</td>
<td>S1</td>
<td>SHUTTER 1</td>
<td>11'-0&quot; x 8'-2&quot;</td>
<td>2</td>
</tr>
<tr>
<td>6</td>
<td>S2</td>
<td>SHUTTER 2</td>
<td>11'-4&quot; x 5'-0&quot;</td>
<td>4</td>
</tr>
</tbody>
</table>
BLOCK B
SECTION AT A-A

- 500mm Gauge Polythene Sheet
- 150mm Sand Filling
- 75mm Thick PCC (1:2:4)
- 1 Layer Flat Brick Soling
- 38mm Screeding with Cement Punning
- 75mm Thick PCC
- 1 Layer Flat Brick Soling

-1'-0" Proposed Ground Level
0 Plinth Level
+7'-0" Lintel Level
+10'-6" First Floor Level
+22'-1" Top Floor Level

Compacted Filled Soil
Compacted Earth

-2'-6" Ground Level
+13'-0" Parapet Level

CGI roofing

11'-6" +19'-6" Lintel Level

Scale: 1:96

DOORS AND WINDOWS SCHEDULE

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<tr>
<td>1.</td>
<td>D1</td>
<td>Door 1</td>
<td>2'-6&quot; x 7'-0&quot;</td>
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<tr>
<td>2.</td>
<td>D2</td>
<td>Door 2</td>
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<tr>
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<td>W1</td>
<td>Window 1</td>
<td>4'-0&quot; x 4'-0&quot;</td>
<td>2</td>
</tr>
<tr>
<td>4.</td>
<td>V1</td>
<td>Ventilation</td>
<td>2'-0&quot; x 1'-0&quot;</td>
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<tr>
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<td>SHUTTER 2</td>
<td>11'-4&quot; x 8'-2&quot;</td>
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</tbody>
</table>

Project: Market Centre Development

Design by: Ar. Suvekshya Acharya

Drawn by: Ar. Suvekshya Acharya

Checked by: Er. Amit Jung Subedi

Sheet Title: Section Block B

Date: April, 2021
STRUCTURAL DRAWINGS
FOOTING CHART (Table No.:1)

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Type</th>
<th>Footing Size</th>
<th>Length</th>
<th>Breadth</th>
<th>D</th>
<th>Provided Astx</th>
<th>Provided Asty</th>
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</thead>
<tbody>
<tr>
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<td>F1</td>
<td>4'-6&quot;</td>
<td>14&quot;</td>
<td>4'-6&quot;</td>
<td></td>
<td>12mmØ@6&quot;c/c</td>
<td>12mmØ@6&quot;c/c</td>
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<tr>
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<td>F2</td>
<td>5'-0&quot;</td>
<td>15&quot;</td>
<td>5'-0&quot;</td>
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<td>12mmØ@6&quot;c/c</td>
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<tr>
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<td>F3</td>
<td>6'-0&quot;</td>
<td>16&quot;</td>
<td>6'-0&quot;</td>
<td></td>
<td>12mmØ@6&quot;c/c</td>
<td>12mmØ@6&quot;c/c</td>
</tr>
</tbody>
</table>

NOTES:
1. SEE BEAM SCHEDULE FOR STIRRUP TYPE AND SPACING.
2. ZONE A LENGTH SHALL BE TWICE THE BEAM HEIGHT, h.
3. THE FIRST STIRRUP IN ZONE A SHALL BE LOCATED 2" MAXIMUM FROM THE FACE OF THE SUPPORT.
4. LAP SPLICES SHALL NOT BE LOCATED WITHIN THE BEAM/COLUMN JOINT, NOR WITHIN A DISTANCE OF 2H.
5. LAP SPLICES SHALL BE ENCLOSED BY HOOP STIRRUPS AT A MAXIMUM SPACING OF D/4 OR 4", WHICHEVER IS SMALLER.

General Notes For Column:
1. LATERAL TIES AT LAPPED SECTION SHALL NOT BE SPACED MORE THAN 6 INCHES.
2. HOOK OF LATERAL TIES SHALL NOT BE LESS THAN TEN TIMES DIA OF LATERAL TIES.
3. NOT MORE THAN HALF OF THE COLUMN BARS SHALL BE LAPPED AT THE SECTION.
4. BNM Ø STIRRUPS @ 4" C/C UPTO 2'H AT JOINTS, 6" C/C IN THE MIDDLE
5. AT LEAST TWO RING OF MANITOR STEEL IS REQUIRED IN THE JOINT OF BEAM AND COLUMN, STRICTLY FOR BETTER DUCTILITY, AS PER DESIGN.
6. HOOKS IN LATERAL TIES SHALL BE BENT AT 135°
7. LAPPING OF LONGITUDINAL REINFORCEMENT IN COLUMN SHALL BE DONE AT THE MID HEIGHT IN EACH STORY.
8. CONCRETE GRADE M20 & STEEL GRADE FE500 FOR ALL STRUCTURE
9. ONLY WRITTEN DIMENSIONS TO BE FOLLOWED, DRAWINGS NOT TO BE MEASURED AS PER GIVEN SCALE.
10. ANY DISCREPANCY OR OMISION IN THIS DRAWING - IF FOUND SHALL BE REPORTED IMMEDIATELY TO SITE ENGINEER.
**COLUMN CHART**

<table>
<thead>
<tr>
<th>ColumnType</th>
<th>SCAL: 1&quot;=2'-0&quot;</th>
<th>FF SCALE: 1&quot;=2'-0&quot;</th>
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<tbody>
<tr>
<td>C1 12X12</td>
<td>a=16Ø and b=120</td>
<td>a=16Ø and b=120</td>
</tr>
<tr>
<td>C2 12X12</td>
<td>a=16Ø and b=120</td>
<td></td>
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</tbody>
</table>

**Shrink**

4L 8Ø @ 4" & 6" c/c
GROUND FLOOR BEAM LAYOUT PLAN
FB: 9"X14"
SB: 9"X12"
SCALE: 1"=8'0"

PLINTH BEAM LAYOUT PLAN
PB: 9"X12"
SCALE: 1"=8'0"
SLAB REINFORCEMENT PLAN

a & c = top bar 8Ø & 10Ø@6"c/c respectively
b = bot. bar 8Ø@6"c/c

SCALE: 1"=8'0"

STAIRCOVER PLAN

SCALE: 1"=8'0"

CGI Roof
26 Gauge

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Email: sahamatico@gmail.com

Project: Market Centre Development
Design by: Er. Sanjeev Thakuri
Building: Market Centre
Sheet Title: Structural Dwg.
Block - A
Dwg. No. S4

Drawn by: Er. Sanjeev Thakuri
Checked by: Er. Bikki Shyama
Scale: As shown
Date: April, 2021
Typical Bent-up Detail For Slab Bars

L-SECTION DETAILS ALONG X-DIR (GRID 1 & 2)
SCALE: 1"=4'0"

L-SECTION DETAILS ALONG Y-DIR (GRID A,B,C,D,E,F,G&H)
SCALE: 1"=2'0"
Re Bar Lap Detail in Beam

Sectional Plan of Beam
Column joint Detail

Connection Detail Between Main & Secondary Beam
GENERAL NOTES

1. USE M20 GRADE CONCRETE FOR ALL CONCRETE MEMBERS
2. USE Fe500 GRADE STEEL (fy=500N/mm²)

CLEAR COVER TO BARS
a. FOR CONCRETE MEMBERS IN CONTACT WITH SOIL = 50mm
b. FOR MAIN BARS IN BEAMS = 25mm
c. FOR LONGITUDINAL (VERTICAL) BARS IN COLUMN = 40mm
d. FOR OUTER BARS IN SLAB = 20mm

4. BARS IN COLUMNS SHALL BE SPLICED ONLY AT MID HEIGHT OF COLUMN.

5. BARS SPLICING IN BEAM SHALL BE AVOIDED IN THE SPAN WHERE INTERMEDIATE BEAM IS CONNECTED AND SHALL BE ONLY AS SHOWN ON DWG.

6. DEVELOPMENT / LAP LENGTH (Ld.) FOR BARS = 60 DIA OF BAR

7. CLEAR VERTICAL DISTANCE BETWEEN TWO ROWS (LAYS) OF BARS = 25mm.

8. PROVIDE SHEAR REINFORCEMENT AT 4" C/C AT LAP LOCATIONS.

9. DIMENSIONS NOT TO BE MEASURED DIRECTLY FROM THE DRAWING.

10. ANY DISCREPANCY OR OMISSION IN THE DRAWING IS FOUND SHALL BE REPORTED IMMEDIATELY TO THE DESIGNER/SITE ENGINEER.
ELECTRICAL DRAWINGS
BLOCK A
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<th>Symbol</th>
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<td>1</td>
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<td>LED Tube Light 22W, 1200mm</td>
</tr>
<tr>
<td>2</td>
<td></td>
<td>6W LED SMD Downlight, Surface</td>
</tr>
<tr>
<td>3</td>
<td></td>
<td>48&quot; Ceiling Fan, 3 Blade Type</td>
</tr>
<tr>
<td>4</td>
<td></td>
<td>2 Gang Modular Switch</td>
</tr>
<tr>
<td>5</td>
<td></td>
<td>3 Gang Modular Switch</td>
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<tr>
<td>6</td>
<td></td>
<td>4 Gang Modular Switch</td>
</tr>
<tr>
<td>7</td>
<td></td>
<td>8 Gang Modular Switch</td>
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<tr>
<td>8</td>
<td></td>
<td>1 Gang 2 Way Modular Switch</td>
</tr>
<tr>
<td>9</td>
<td></td>
<td>Fan Regulator</td>
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<tr>
<td>10</td>
<td></td>
<td>Final Distribution Board</td>
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<tr>
<td>11</td>
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<td>Main Distribution Board</td>
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</table>

**LIGHT POINTS LAYOUT**

**GROUND FLOOR PLAN**

**BLOCK - B**

**Design by:** Er. Kushal Poudel  
**Drawn by:** Er. Sharon Maharjan  
**Checked by:** Er. Amit Jung Subedi
<table>
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<tr>
<th>S.No.</th>
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<td>LED Tube Light 22W, 1200mm</td>
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<tr>
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<td>1 Gang 2 Way Modular Switch</td>
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<td>Fan Regulator</td>
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<td>Final Distribution Board</td>
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<tr>
<td></td>
<td>11</td>
<td>Main Distribution Board</td>
</tr>
</tbody>
</table>

**Light Points Layout**

**Roof Plan**

**Block - B**

**Design by:** Er. Kushal Poudel

**Drawn by:** Er. Sharon Maharjan

**Checked by:** Er. Amit Jung Subedi

**Project:** Market Centre Development

**Building:** Market Centre

**Sheet Title:** ELECTRICAL DWG BLOCK-B

**Dwg. No.:** E2

**Scale:** 1:96

**Date:** April, 2021
SANITARY DRAWINGS
BLOCK A
BLOCK B
SOIL & WASTE WATER PIPELINE LAYOUT PLAN
GROUND FLOOR PLAN (BLOCK-B)

LEGENDS

- SOIL WASTE PIPE
- WASTE WATER PIPE
- COLD WATER PIPE
- PAN
- WASH BASIN
- SINGLE TAP
- FLOOR TRAP

Project: Market Centre Development
Design by: Er. Bishal Neupane
Drawn by: Er. Sharon Maharjan
Checked by: Er. Amit Jung Subedi

Building: Market Centre
Sheet Title: SANITARY DWG
Dwg. No.: S1
Scale: 1:96
Date: April, 2021
DRAINAGE
SOAK PIT
AND
SEPTIC TANK
2'-8"
4" Thick RCC Slab  
(Removable)

38mm thick Screeding with
Cement Punning
Sand Filling
3" PCC
Flat Brick Soling

DRAINAGE SECTION

1'-6"
4'-0"

1'-7"
2'-4"

3" PCC

Flat Brick Soling

SLOPE : 1%

Proposed Ground Level

Existing Ground Level

9"

DRAINAGE PLAN

5'-6"

RC Slab  
(Removable)

Proposed Ground Level

Existing Ground Level

9"

4'-0"

SLOPE : 1%

38mm thick Screeding with
Cement Punning
Sand Filling
3" PCC
Flat Brick Soling

DRAINAGE SECTION AT MANHOLE

Project:
Market Centre Development

Design by: Ar. Suvekshya Acharya

Drawing by: Ar. Suvekshya Acharya

Checked by: Er. Amit Jung Subedi

Building: Market Centre

Sheet Title: DRAINAGE PLAN & SECTION

Scale: 1:24

Date: April, 2021
PLAN OF SEPTIC TANK
SECTION AT A-A

- WATER LEVEL
- BENCHING
- REMOVABLE COVER
- 4" TH. VENT PIPE
- BRICK MASONARY IN CEMENT MORTAR
- 4" TH. RCC SLAB
- OUTLET PIPE
- 4" TH. RCC (1:2:4)
- ONE LAYER BRICK SOLING
- IRON FOOT STEP
- 3MM TH. PUNNING
- 20MM TH. PLASTER
- SLOPE 1:40
- 4" TH. RCC (1:2:4)
- ONE LAYER BRICK SOLING
- SLOPE 1:40
- BAFFLE WALL
- SCALE: 1:24

Project: Market Centre Development
Design by: Ar. Suvekshya Acharya
Drawn by: Ar. Suvekshya Acharya
Checked by: Er. Amit Jung Subedi
Building: Market Centre
Sheet Title: SEPTIC TANK
Scale: 1:24
Date: April, 2021