

# SAHAMATI NEPAL

GAINDAKOT-5, NAWALPARASI, NEPAL

## **Market Centre Development DESIGN DRAWINGS**

APRIL, 2021

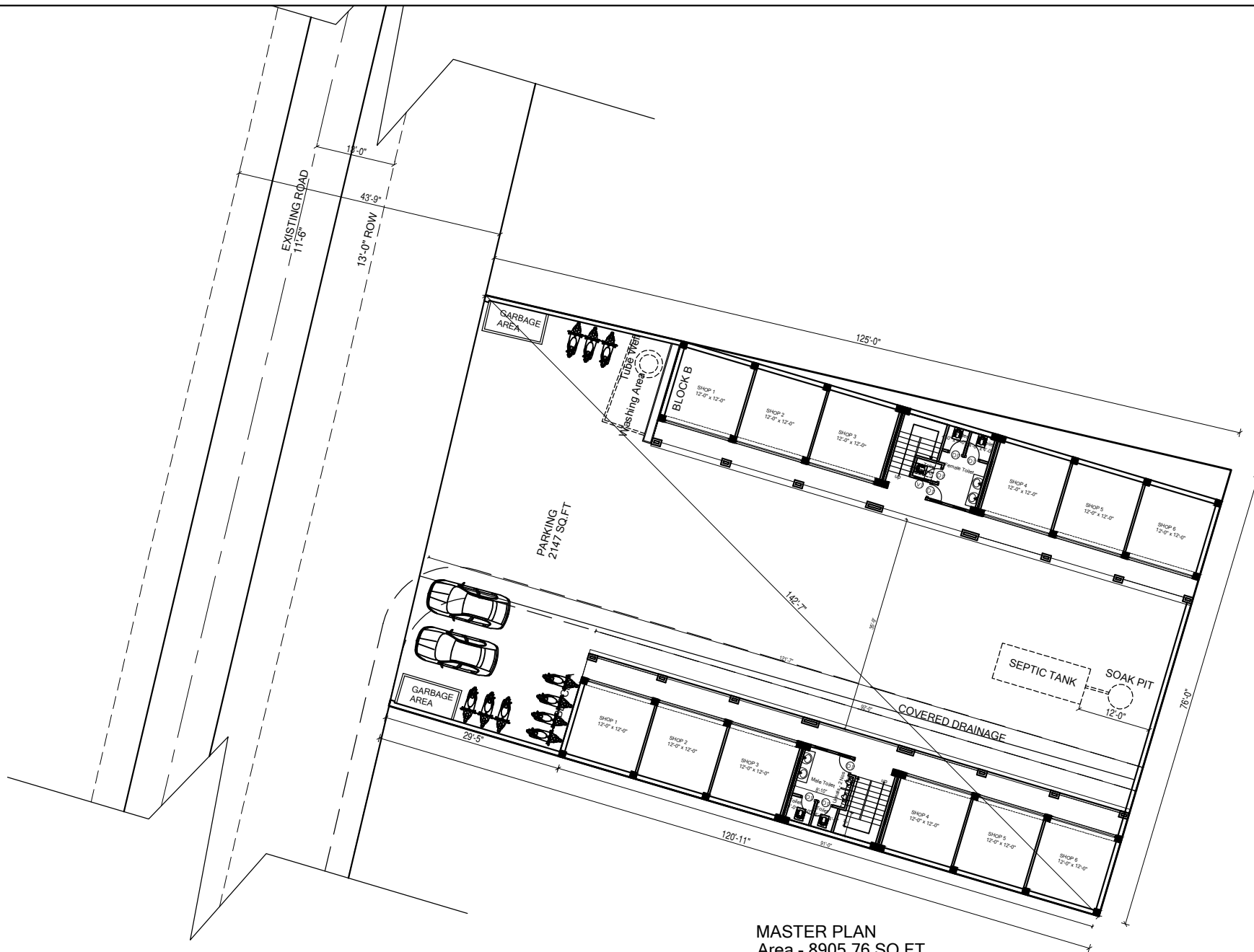
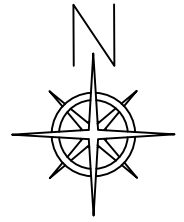
**BONAFIDE ENGINEERING CONSULTANCY PVT. LTD.**

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Tel: +977-01-5403222, 9851182816

Email: [bonafideengineering@gmail.com](mailto:bonafideengineering@gmail.com)

# MASTERPLAN



**MASTER PLAN**  
Area - 8905.76 SQ.FT

**SAHAMATI NEPAL**  
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Project:  
**Market Centre Development**

Design by: Ar. Suvekshya Acharya

Drawn by: Ar. Suvekshya Acharya

Checked by: Er. Amit Jung Subedi

Building:  
Market Centre

Scale: 1:192

Sheet Title:  
Master Plan

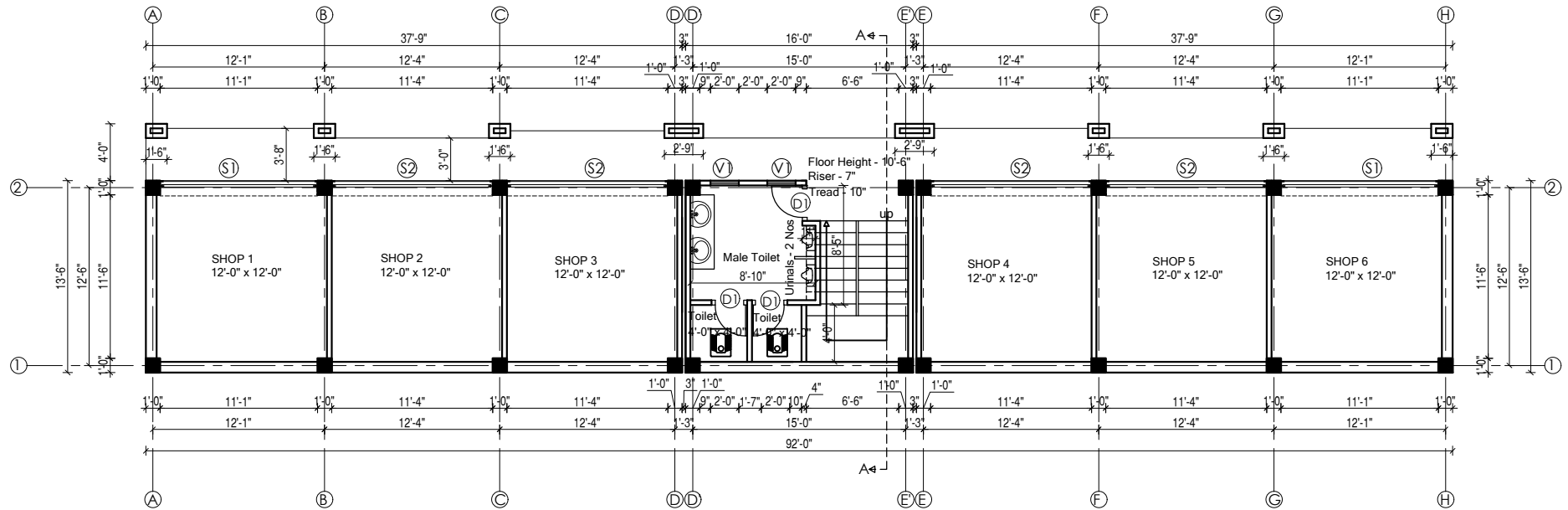
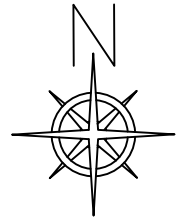
Date: April, 2021

Dwg. No.

**M1**

# ARCHITECTURAL DRAWINGS

**BLOCK A**



BLOCK - A  
GROUND FLOOR PLAN  
Area - 1242.00 SQ.FT

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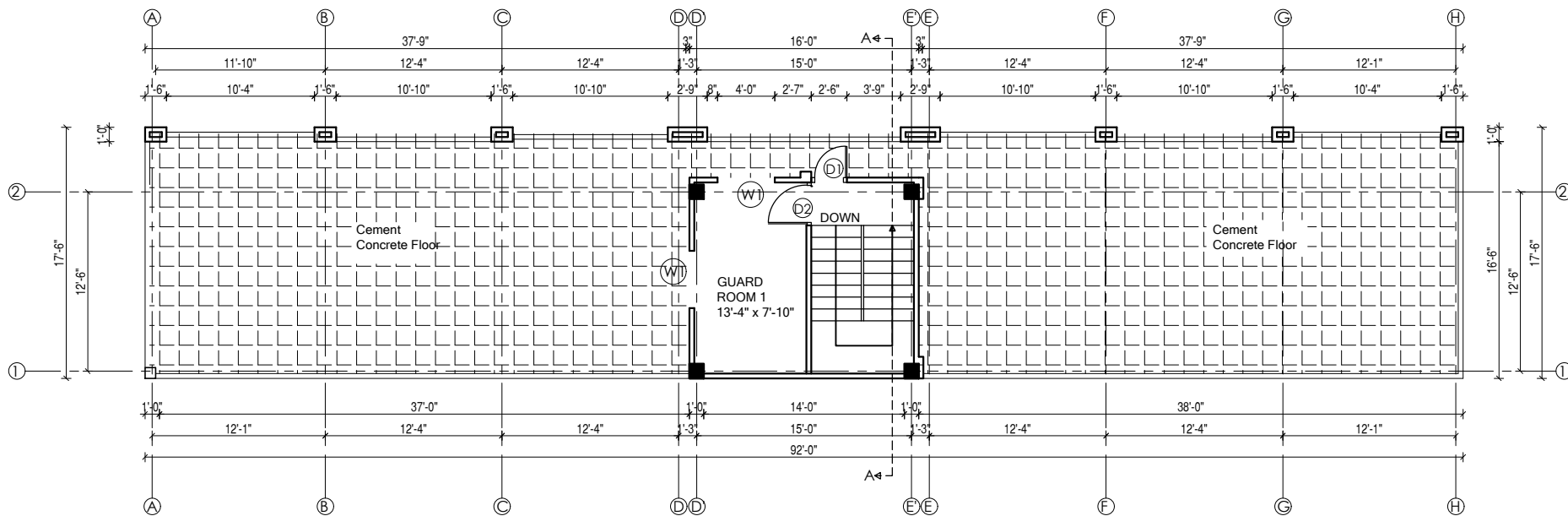
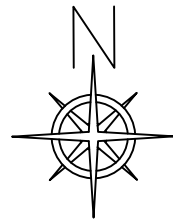
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Sheet Title:  
Floor Plan  
Block - A

Date: April, 2021

Dwg. No.

**A1**



**BLOCK - A**  
**ROOF PLAN (FUTURE EXTENSION)**  
 Area - 224.00 SQ.FT

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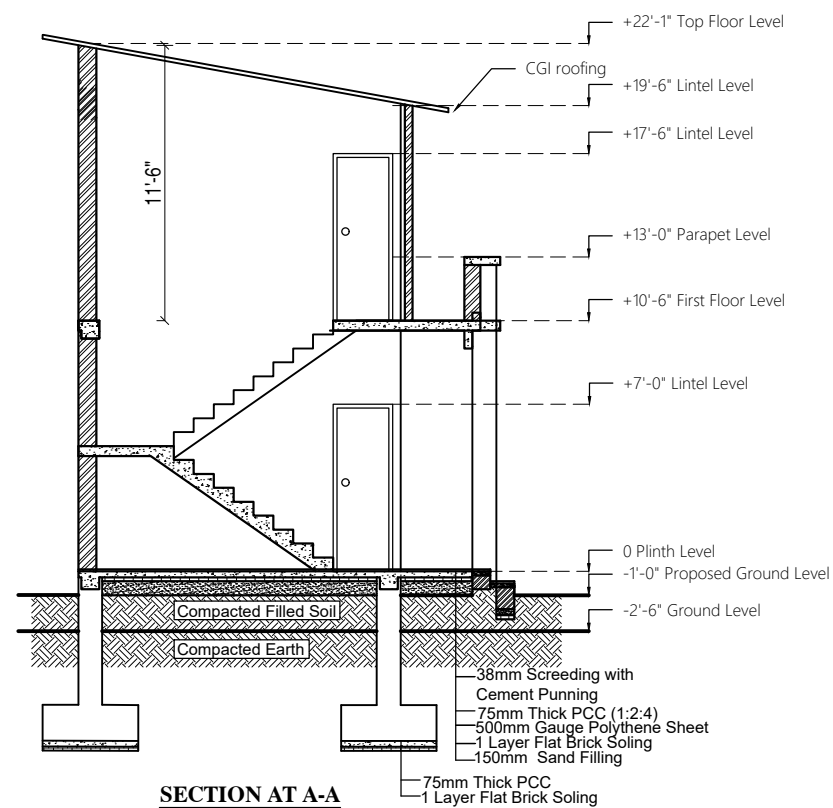
Design by: Ar. Suvekshya Acharya  
 Drawn by: Ar. Suvekshya Acharya  
 Checked by: Er. Amit Jung Subedi

Building:  
 Market Centre  
 Scale: 1:96

Sheet Title:  
 Floor Plan  
 Block A  
 Date: April, 2021

Dwg. No.

**A2**



**DOORS AND WINDOWS SCHEDULE**  
**BLOCK-A**

NO.	SYMBOL	DESCRIPTION	L x H	TOTAL NOS.
1.	D1	Door 1	2'-6" x 7'-0"	4
2.	D2	Door 2	3'-0" x 7'-0"	1
3.	W1	Window 1	4'-0" x 4'-6"	2
4.	V1	VENTILATION 1	2'-0" x 1'-6"	2
5.	S1	SHUTTER 1	11'-1" x 8'-2"	2
6.	S2	SHUTTER 2	11'-4" x 8'-2"	4

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**Market Centre Development**

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Checked by: Er. Amit Jung Subedi

Building:  
Market Centre  
Scale: 1:96

Sheet Title:  
Section Block A  
Date: April, 2021

Dwg. No.

A3





FRONT ELEVATION

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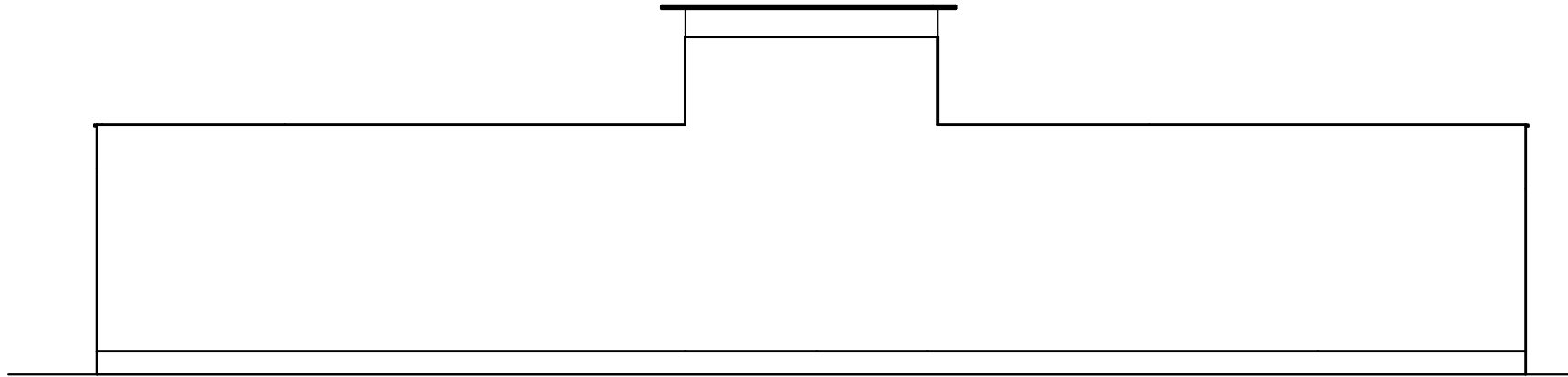
Design by: Ar. Suvekshya Acharya  
 Drawn by: Ar. Suvekshya Acharya  
 Checked by: Er. Amit Jung Subedi

Building:  
 Market Centre  
 Scale: 1:96

Sheet Title:  
 Elevation  
 Block A  
 Date: April, 2021

Dwg. No.

A4



## BACK ELEVATION

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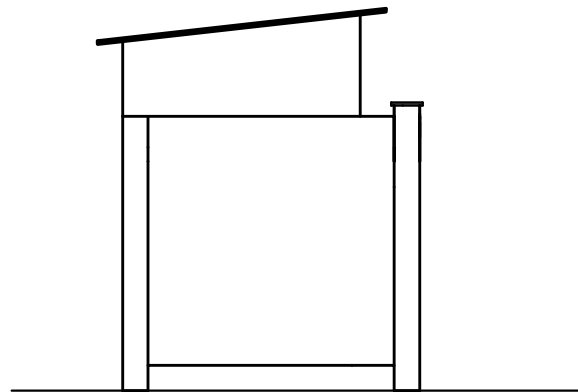
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Sheet Title:  
Elevation  
Block A

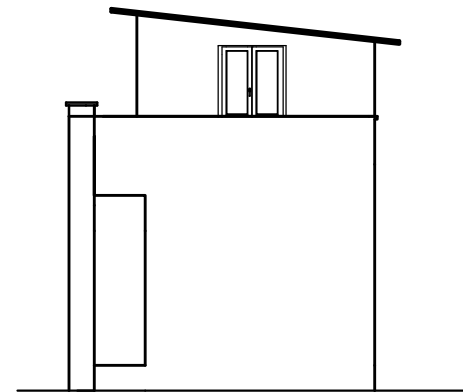
Date: April, 2021

Dwg. No.

**A5**



LEFT ELEVATION



RIGHT ELEVATION

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Building:  
Market Centre

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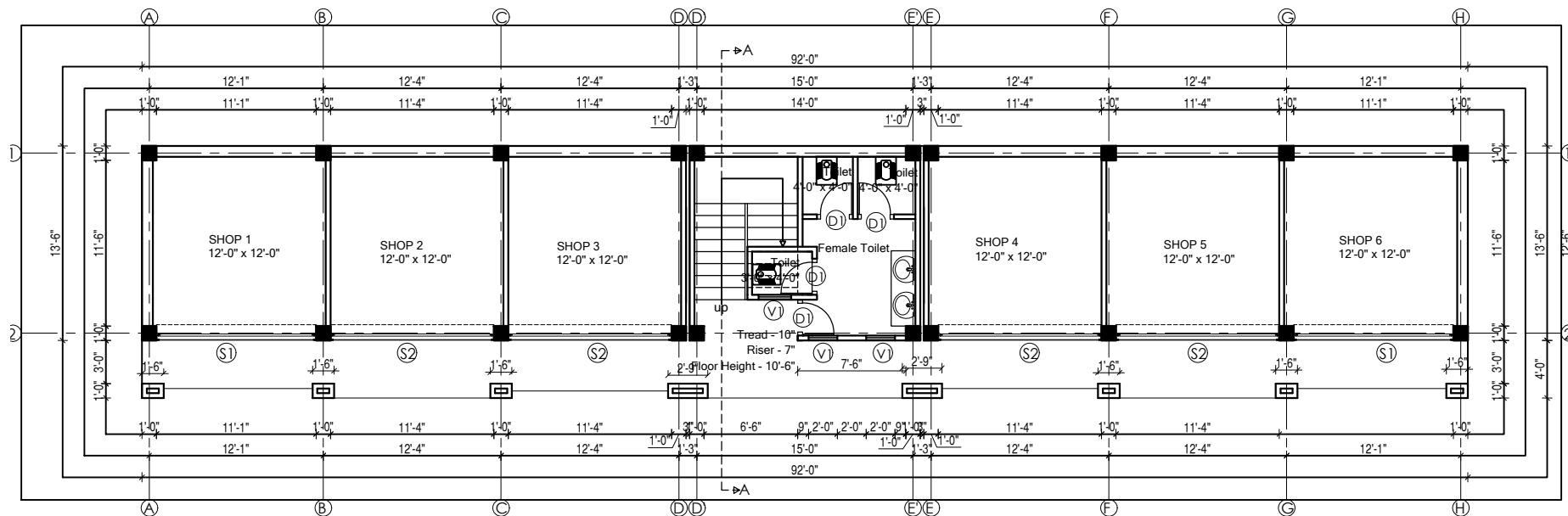
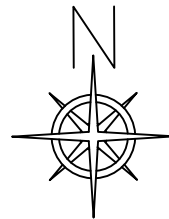
Sheet Title:  
Elevation  
Block A

Date: April, 2021

Dwg. No.

**A6**

**BLOCK B**



**BLOCK - B**  
**GROUND FLOOR PLAN**  
 Area - 1242.00 SQ.FT

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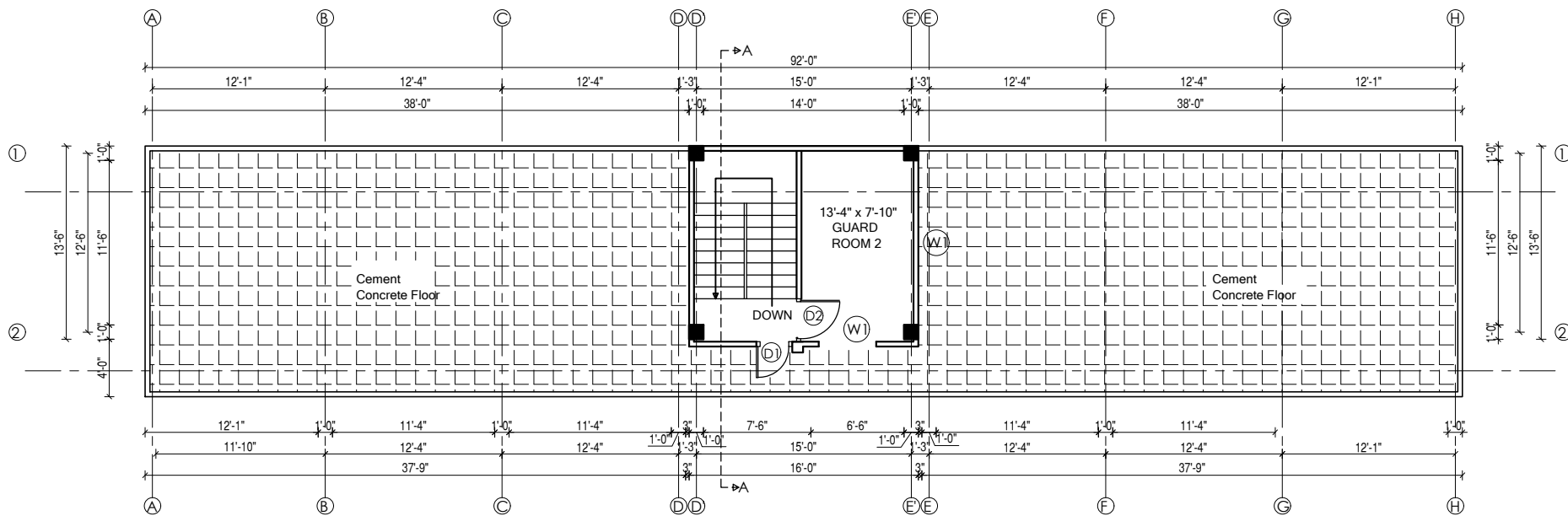
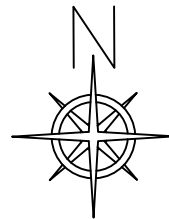
Project:  
**Market Centre Development**

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

Building:  
 Market Centre  
 Scale: 1:96

Sheet Title:  
 Floor Plan  
 Block - B  
 Date: April, 2021

Dwg. No.  
**A1**



**BLOCK - B**  
**ROOF PLAN (FUTURE EXTENSION)**  
 Area - 224.00 SQ.FT

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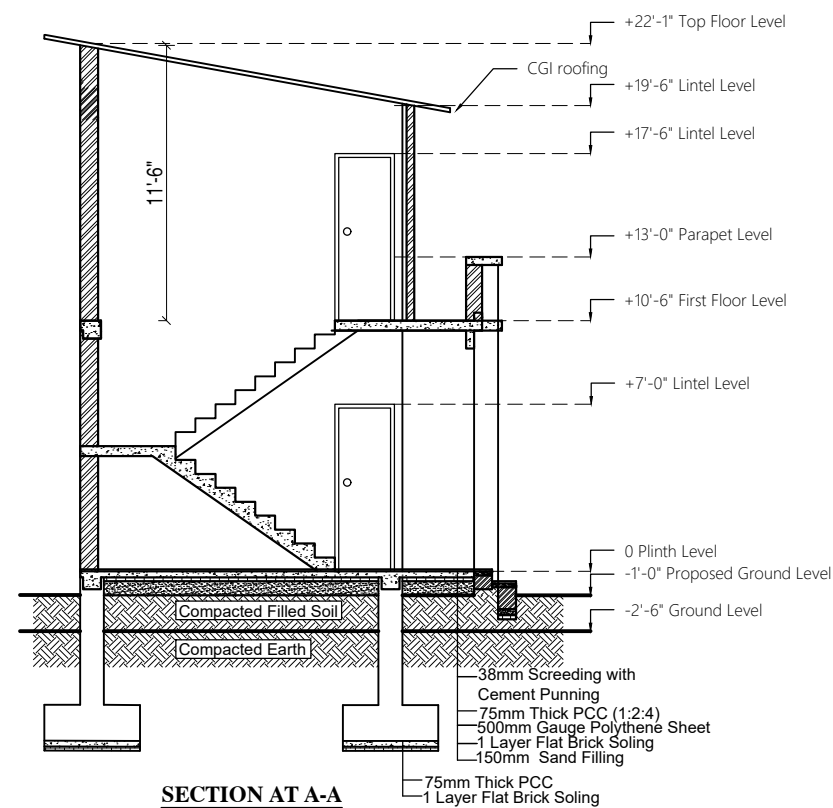
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Building:  
 Market Centre  
 Scale: 1:96

Sheet Title:  
 Floor Plan  
 Block B  
 Date: April, 2021

Dwg. No.  
**A2**



**DOORS AND WINDOWS SCHEDULE**  
**BLOCK-B**

NO.	SYMBOL	DESCRIPTION	L x H	TOTAL NOS.
1.	D1	Door 1	2'-6" x 7'-0"	5
2.	D2	Door 2	3'-0" x 7'-0"	1
3.	W1	Window 1	4'-0" x 4'-6"	2
4.	V1	VENTILATION 1	2'-0" x 1'-6"	3
5.	S1	SHUTTER 1	11'-1" x 8'-2"	2
6.	S2	SHUTTER 2	11'-4" x 8'-2"	4

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Building:  
Market Centre  
Scale: 1:96

Sheet Title:  
Section  
Block B  
Date: April, 2021

Dwg. No.

A3



FRONT ELEVATION

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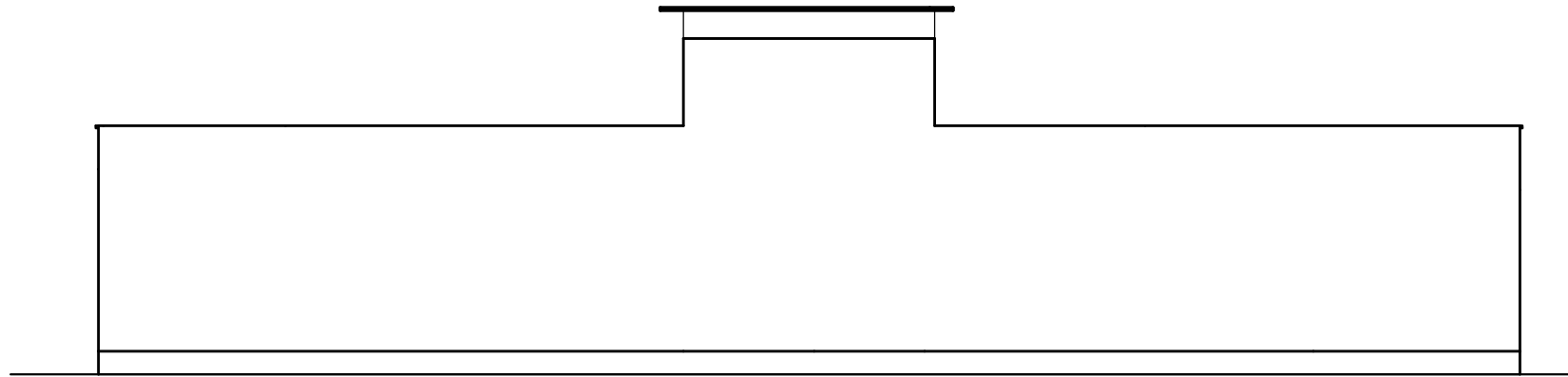
Building:  
 Market Centre  
 Scale: 1:96

Sheet Title:  
 Floor Plan  
 Block B  
 Date: April, 2021

Dwg. No.

A4





## BACK ELEVATION

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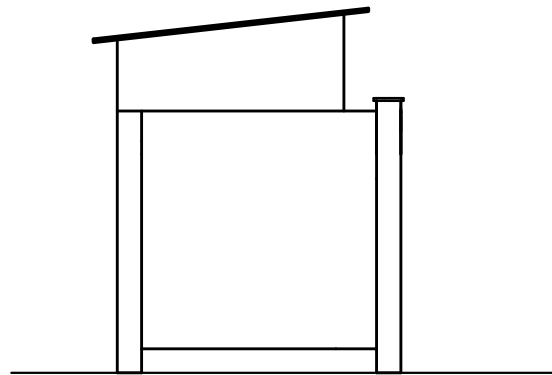
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Floor Plan  
Block B

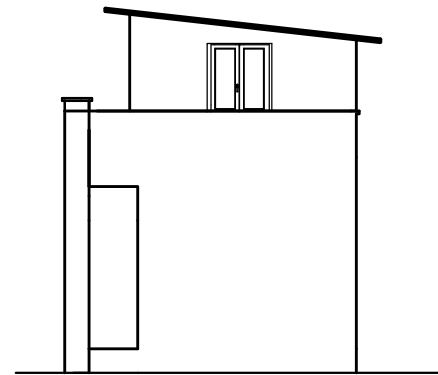
Date: April, 2021

Dwg. No.

A5



LEFT ELEVATION



RIGHT ELEVATION

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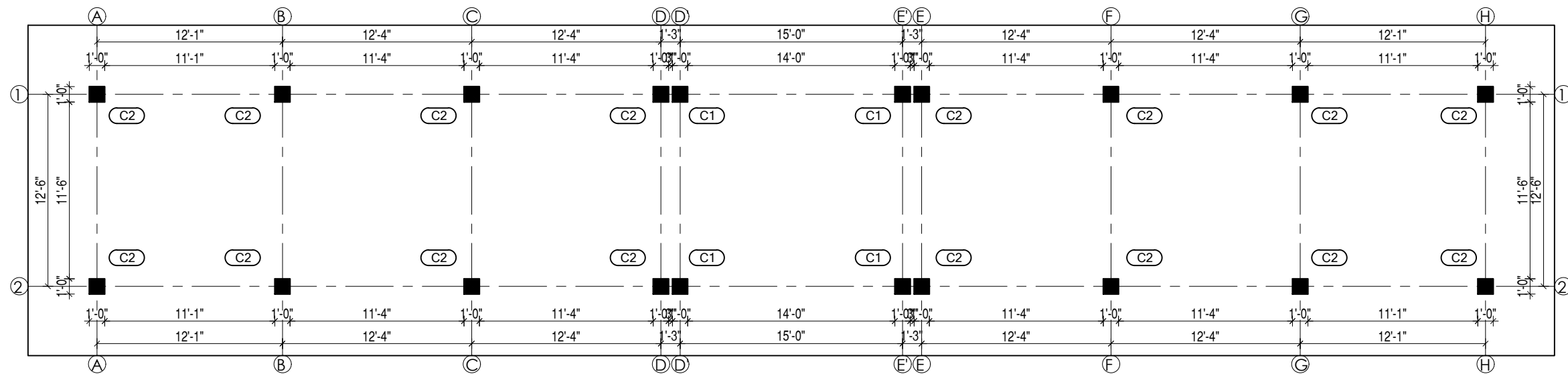
Building:  
Market Centre  
Scale: 1:96

Sheet Title:  
Floor Plan  
Block B  
Date: April, 2021

Dwg. No.

A6

# STRUCTURAL DRAWINGS

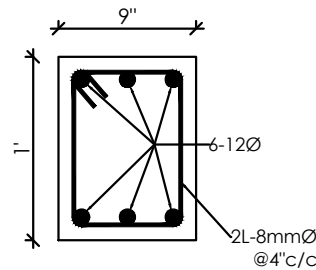


COLUMN LAYOUT PLAN  
SCALE: 1"=8'0"

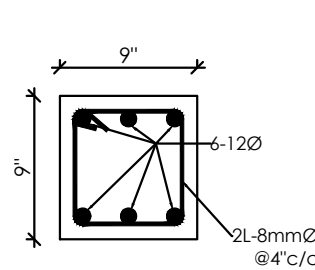
DIA. OF BAR	DEVELOPMENT LENGTH (ld)
8mmØ	1'-6"
10mmØ	1'-11"
12mmØ	2'-3"
16mmØ	3'-0"
20mmØ	3'-9"
25mmØ	4'-9"

FOOTING CHART (Table No.:1)

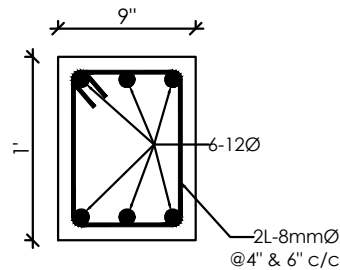
S. No.	Type	Footing Size		Footing Depth	Provided Astx	Provided Asty
		Length	Breadth	D		
1.	F1	4'-6"	4'-6"	14"	12mmØ@6"c/c	12mmØ@6"c/c
2.	F2	5'-0"	5'-0"	14"	12mmØ@6"c/c	12mmØ@6"c/c
3.	F3	6'-6"	5'-0"	16"	12mmØ@6"c/c	12mmØ@6"c/c



PLINTH BEAM SECTION  
SCALE: 1"=1'0"



FOUNDATION BEAM SECTION  
SCALE: 1"=1'0"



SECONDARY BEAM SECTION  
SCALE: 1"=1'0"

**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. 8MM Ø STIRRUPS @ 4" C/C UPTO Z+H AT JOINTS, 6" C/C IN THE MIDDLE
5. AT LEAST TWO RING OF 8MM TOR 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 COLUMNS 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 OMISSION IN THIS DRAWING IF FOUND SHALL BE REPORTED IMMEDIATELY TO SITE ENGINEER.

CLEAR COVER
FOOTING 50MM
COLUMN 40MM
BEAM 20MM
SLAB 15MM

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Project:  
**Market Centre Development**

Design by: Er. Sanjeev Thakuri  
Drawn by: Er. Sanjeev Thakuri  
Checked by: Er. Bikki Shyama

Building:  
Market Centre  
Scale: As shown

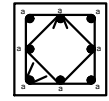
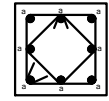
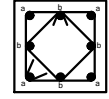
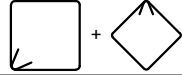
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Block - A  
Date: April, 2021

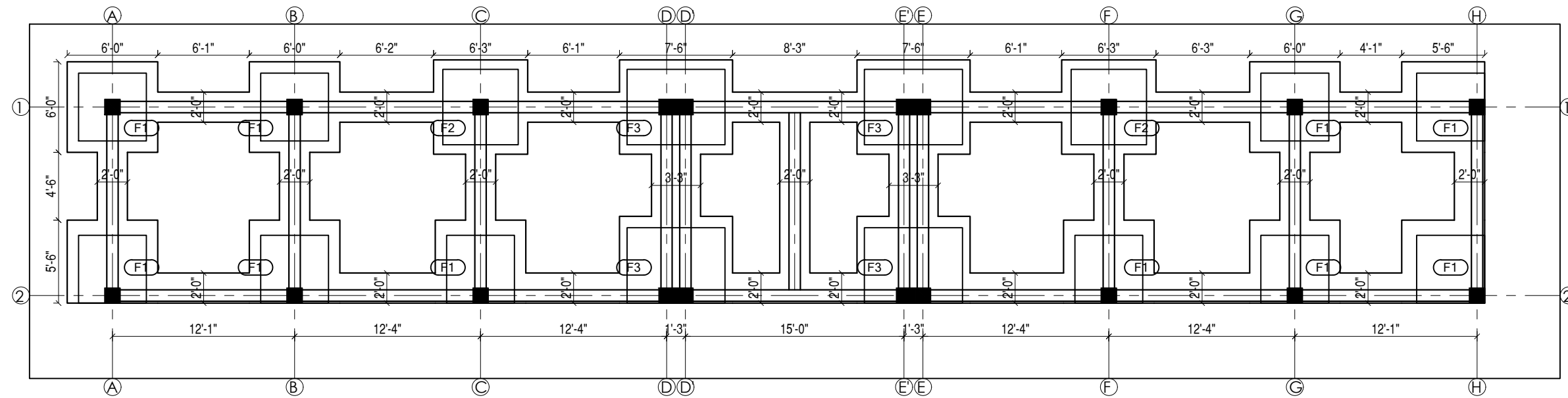
Dwg. No.

**S1**

### COLUMN CHART

fck: M20 fy: Fe500

COLUMN	GF	FF
TYPE SIZE	SCALE: 1"=2'-0"	SCALE: 1"=2'-0"
C1 12X12	 a=16Ø and b=12Ø	 a=16Ø and b=12Ø
C2 12X12	 a=16Ø and b=12Ø	
Stirrup	 4L 8Ø@4" & 6" c/c	



TRENCH LAYOUT PLAN  
SCALE: 1"=8'0"

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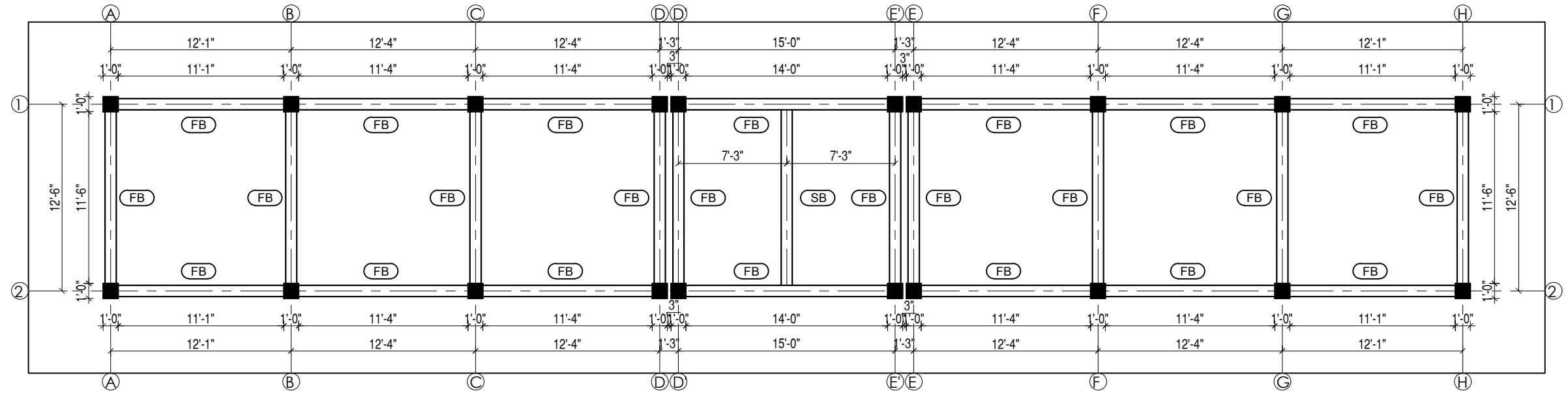
Design by: Er. Sanjeev Thakuri  
Drawn by: Er. Sanjeev Thakuri  
Checked by: Er. Bikki Shyama

Building:  
Market Centre  
Scale: As shown

Sheet Title:  
Structural Dwg.  
Block - A  
Date: April, 2021

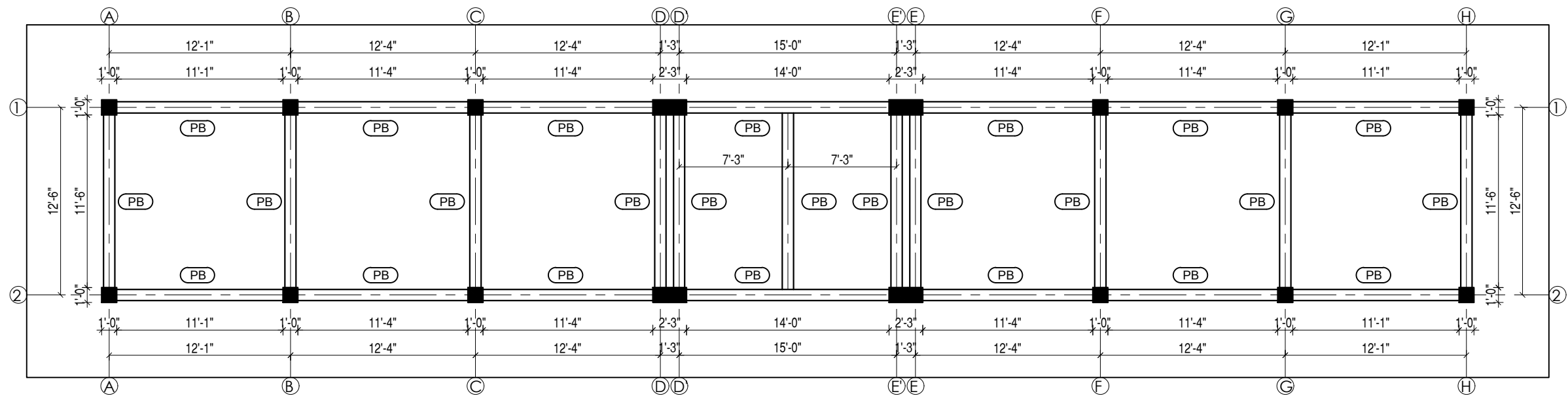
Dwg. No.

**S2**



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"

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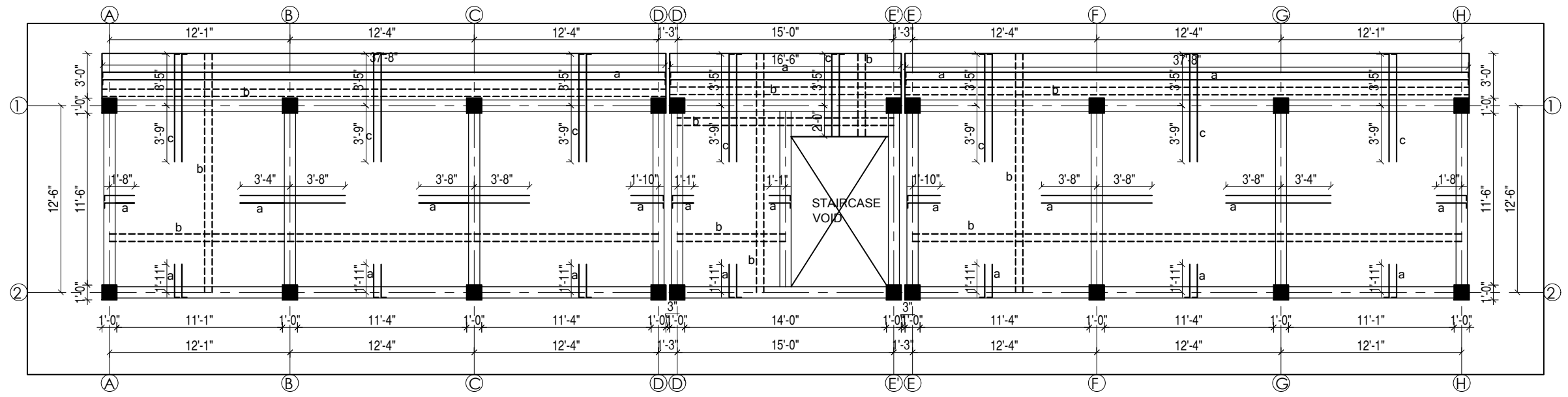
Design by: Er. Sanjeev Thakuri  
 Drawn by: Er. Sanjeev Thakuri  
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Building:  
 Market Centre  
 Scale: As shown

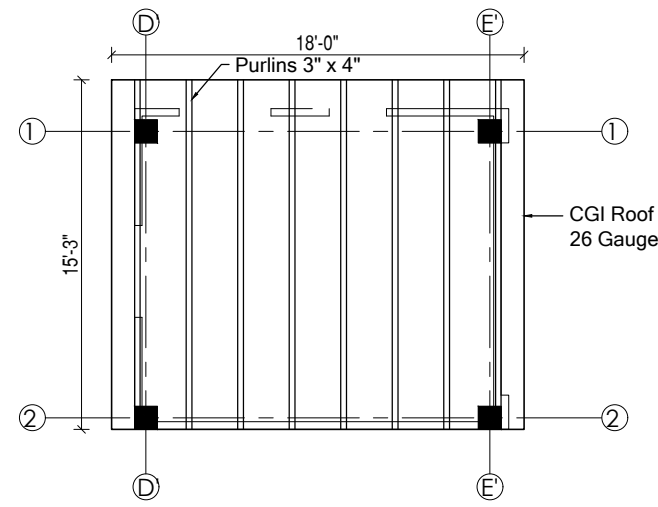
Sheet Title:  
 Structural Dwg.  
 Block - A  
 Date: April, 2021

Dwg. No.

**S3**



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"

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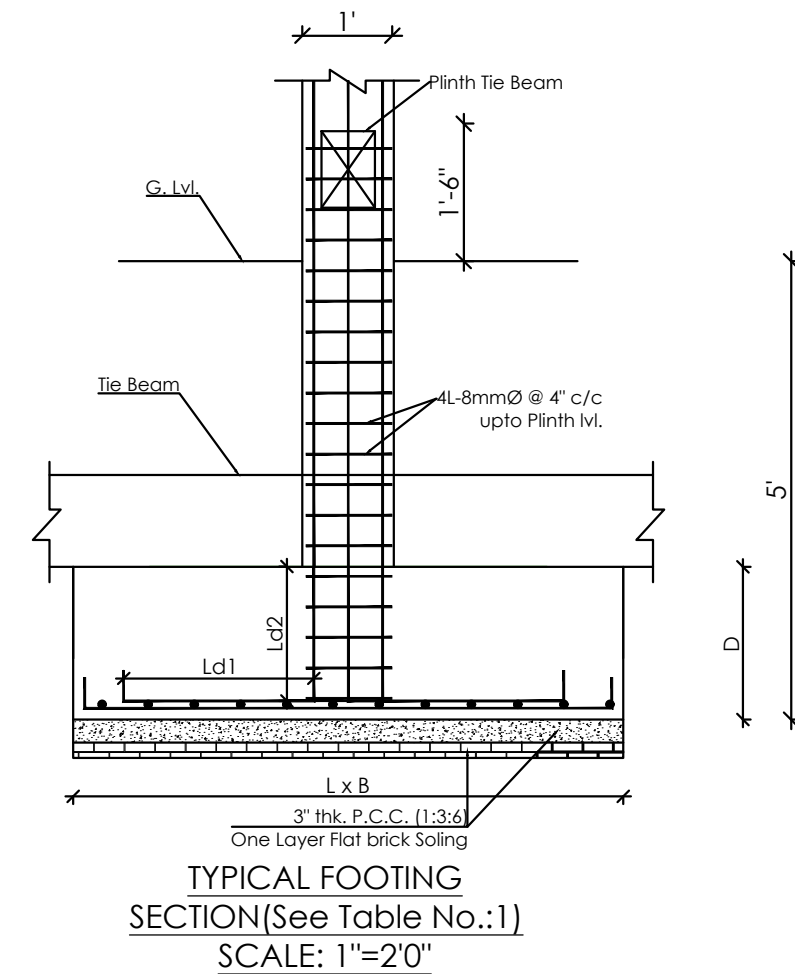
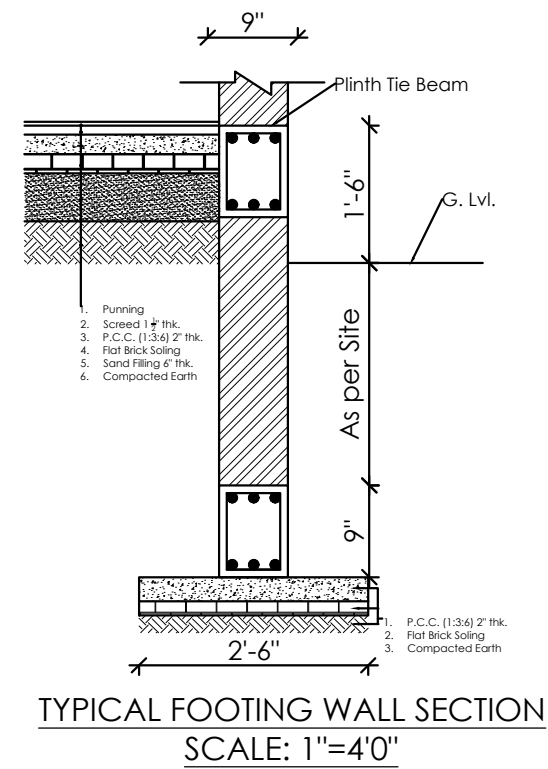
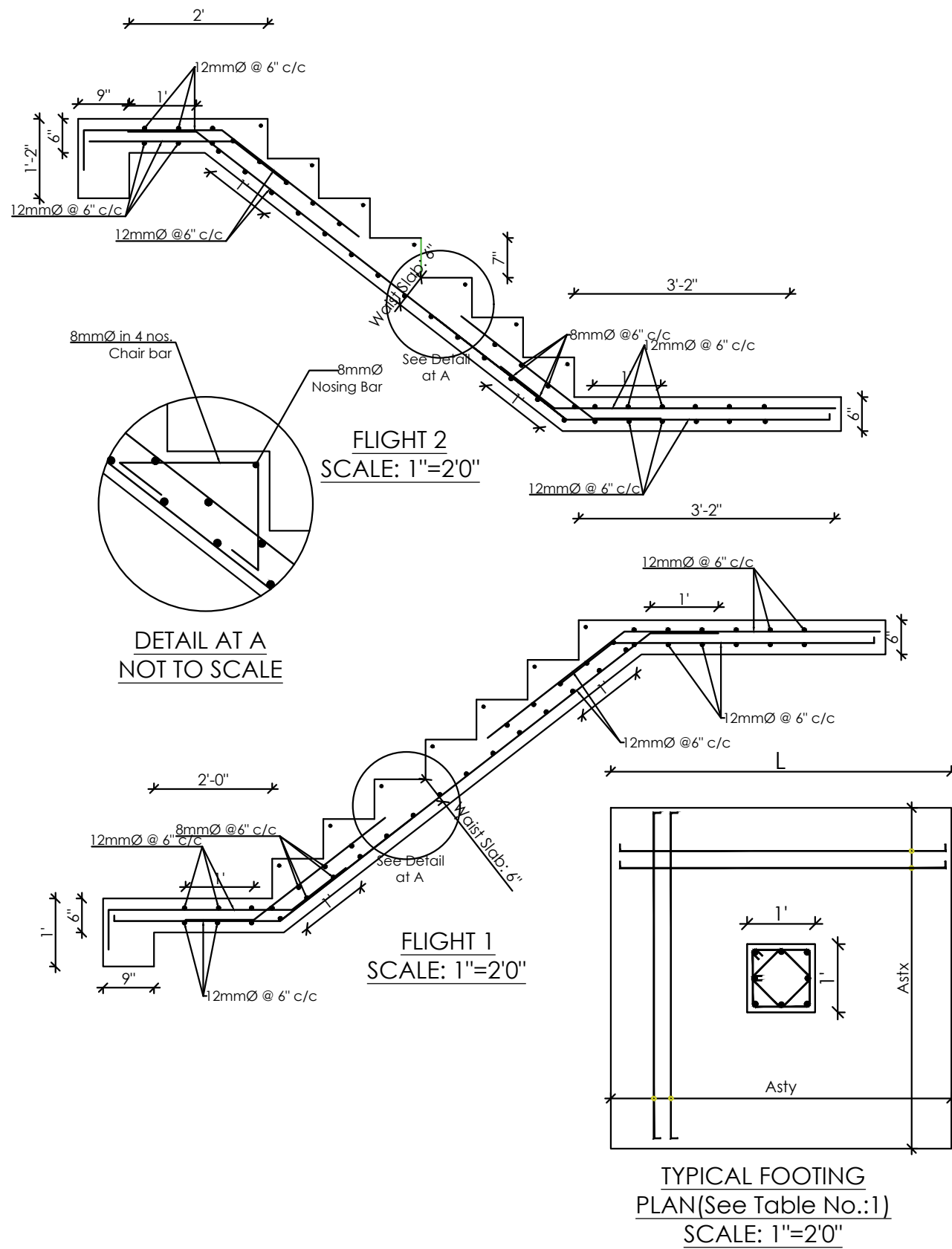
Design by: Er. Sanjeev Thakuri  
 Drawn by: Er. Sanjeev Thakuri  
 Checked by: Er. Bikki Shyama

Building:  
 Market Centre  
 Scale: As shown

Sheet Title:  
 Structural Dwg.  
 Block - A  
 Date: April, 2021

Dwg. No.

**S4**



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Project:  
**Market Centre Development**

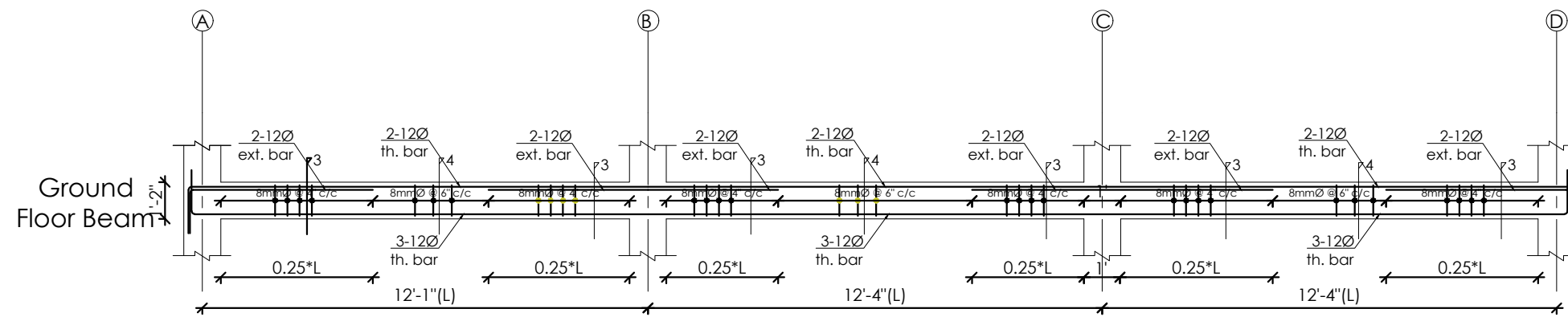
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 Drawn by: Er. Sanjeev Thakuri  
 Checked by: Er. Bikki Shyama

Building:  
 Market Centre  
 Scale: As shown

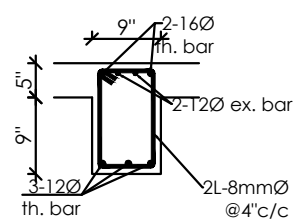
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Dwg. No.  
**S5**

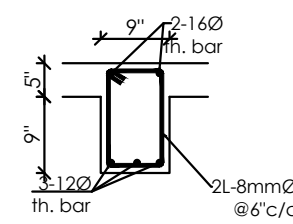




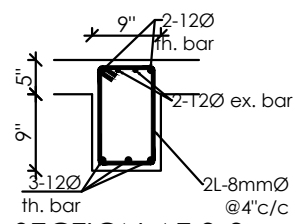
L-SECTION DETAILS ALONG X-DIR (GRID 1 & 2)  
SCALE: 1"=4'0"



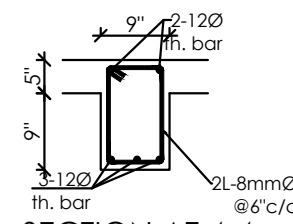
SECTION AT 1-1  
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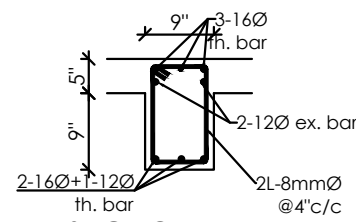
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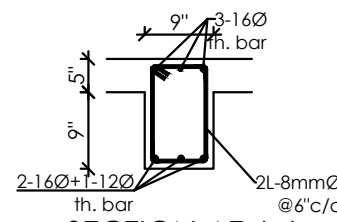
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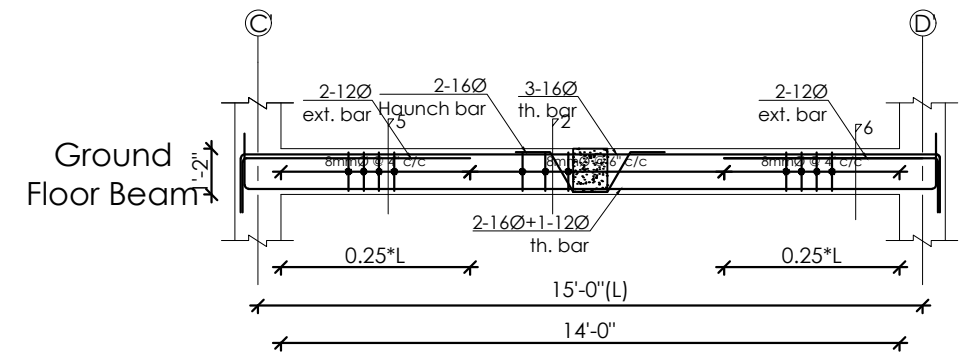
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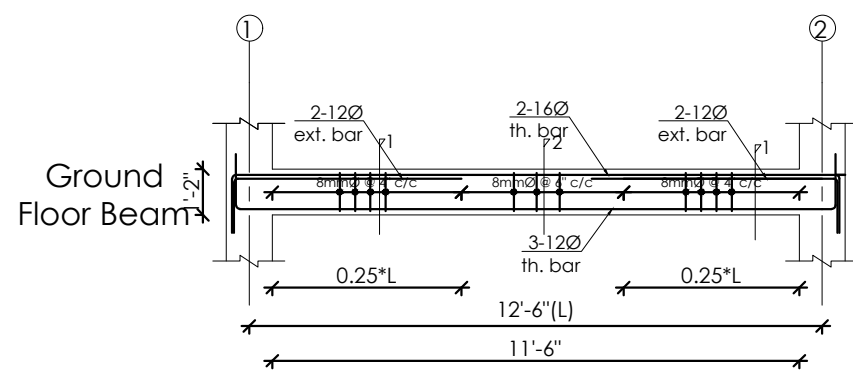
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SECTION AT 6-6  
SCALE: 1"=2'0"



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



L-SECTION DETAILS ALONG Y-DIR (GRID D' & E')  
SCALE: 1"=4'0"

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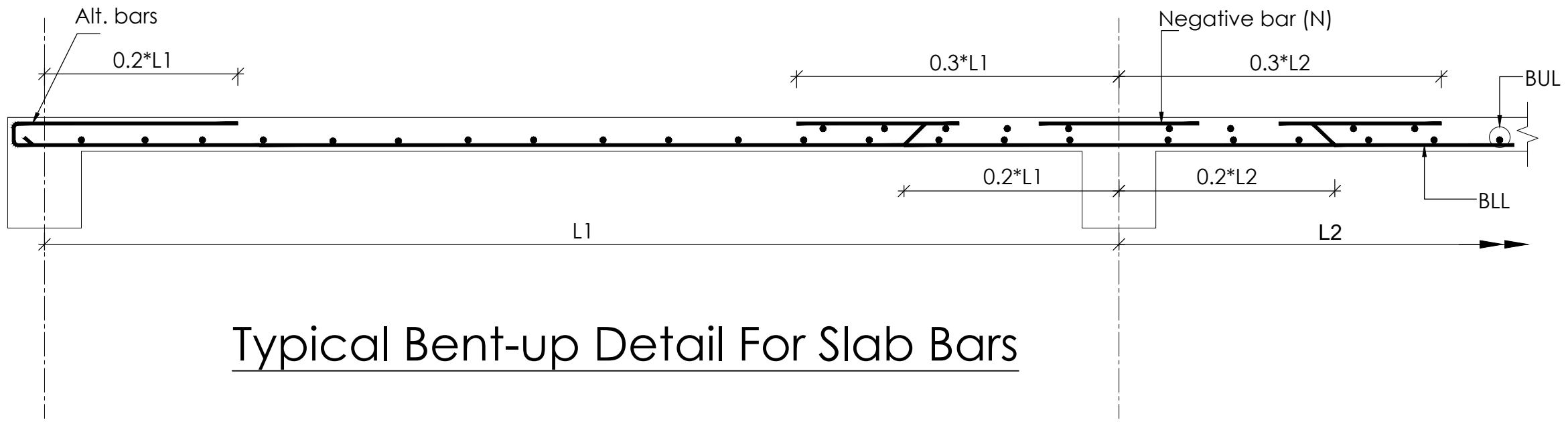
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Drawn by: Er. Sanjeev Thakuri  
Checked by: Er. Bikki Shyama

Building:  
Market Centre  
Scale: As shown

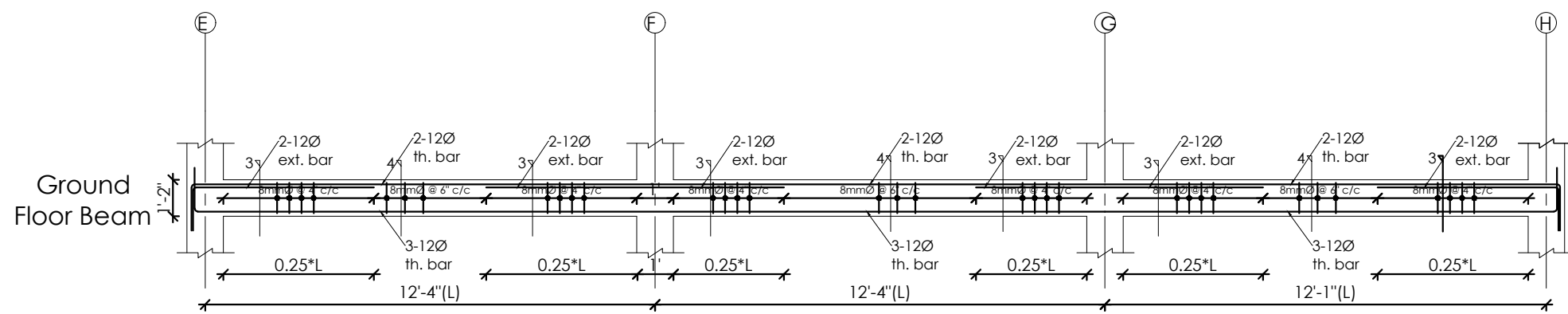
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Beam Details  
Date: April, 2021

Dwg. No.

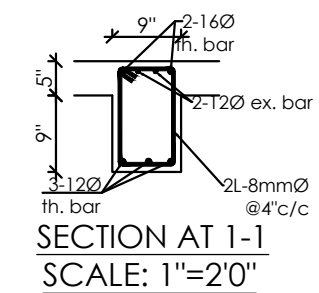
S6



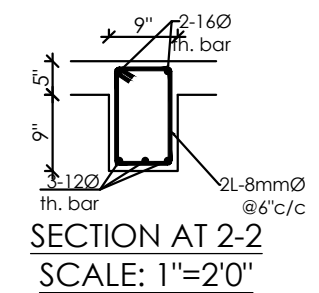
# Typical Bent-up Detail For Slab Bars



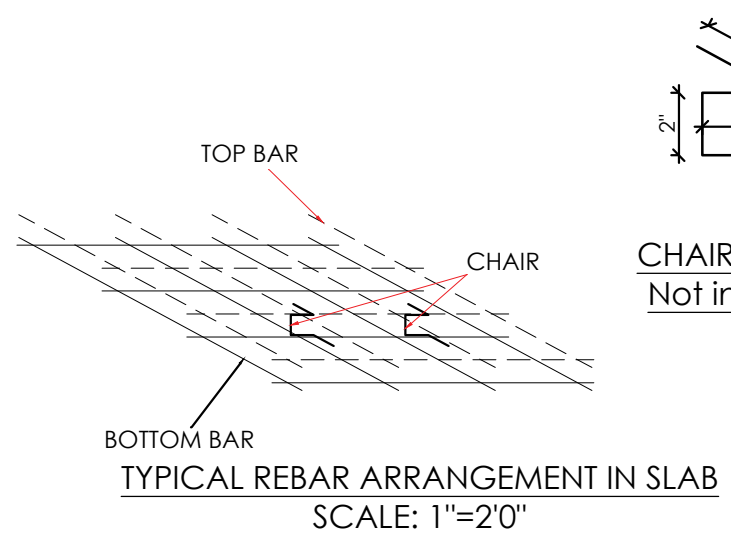
L-SECTION DETAILS ALONG X-DIR (GRID 1 & 2)  
SCALE: 1"=4'0"



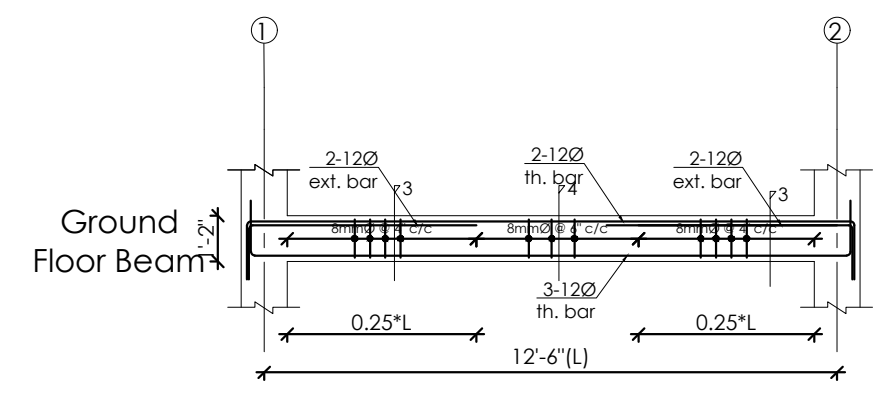
SECTION AT 1-1  
SCALE: 1"=2'0"



SECTION AT 2-2  
SCALE: 1"=2'0"



CHAIR DETAIL  
Not in Scale



L-SECTION DETAILS ALONG Y-DIR (GRID A,B,C,D,E,F,G&H)  
SCALE: 1"=4'0"

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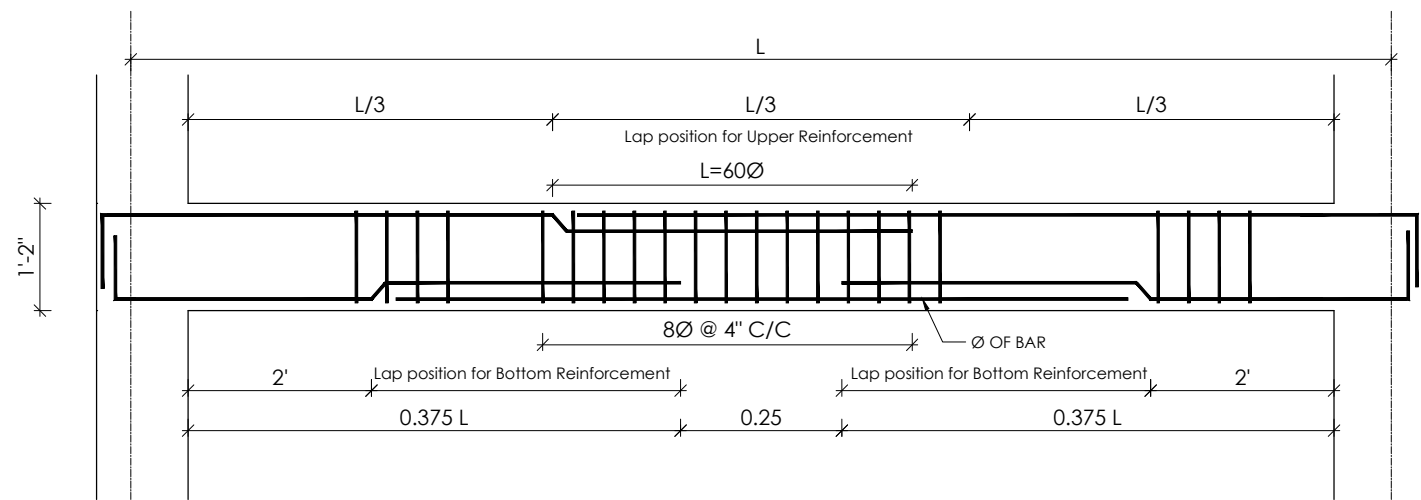
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Checked by: Er. Bikki Shyama

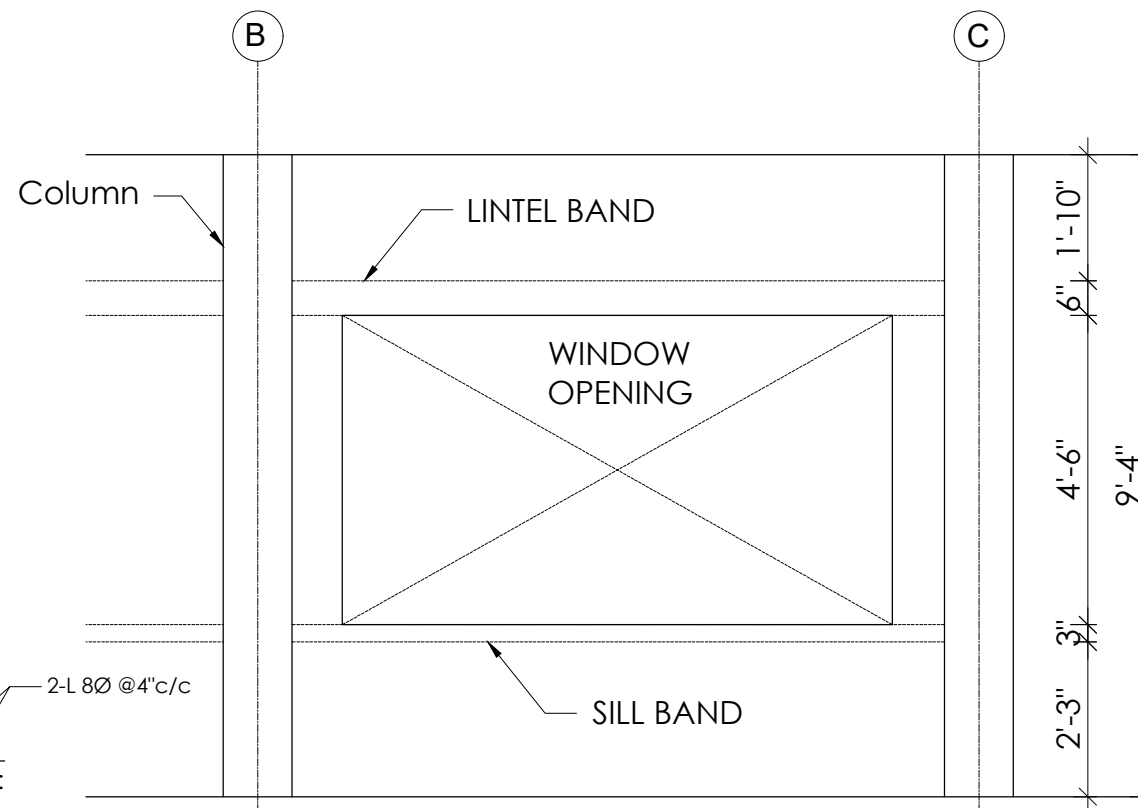
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Sheet Title:  
Beam and Slab  
Details  
Date: April, 2021

Dwg. No.  
**S7**

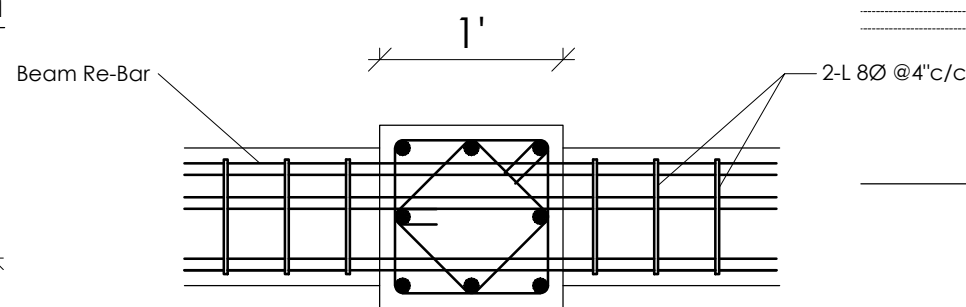


**Re Bar Lap Detail in Beam**

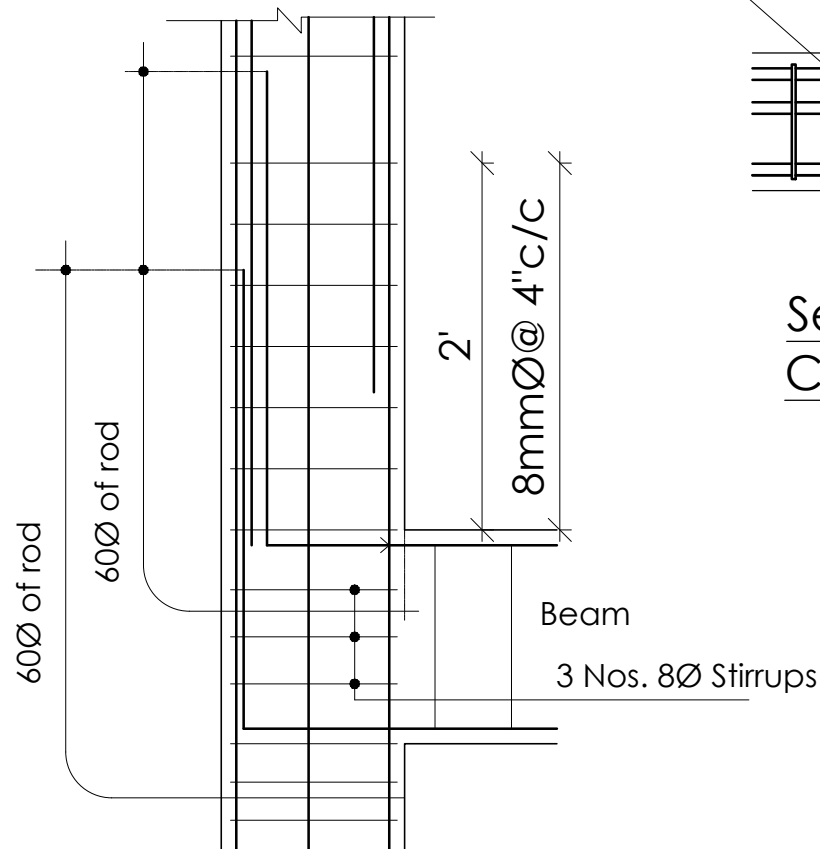


**WALL ELEVATION**

SCALE: 1"=4'-0"

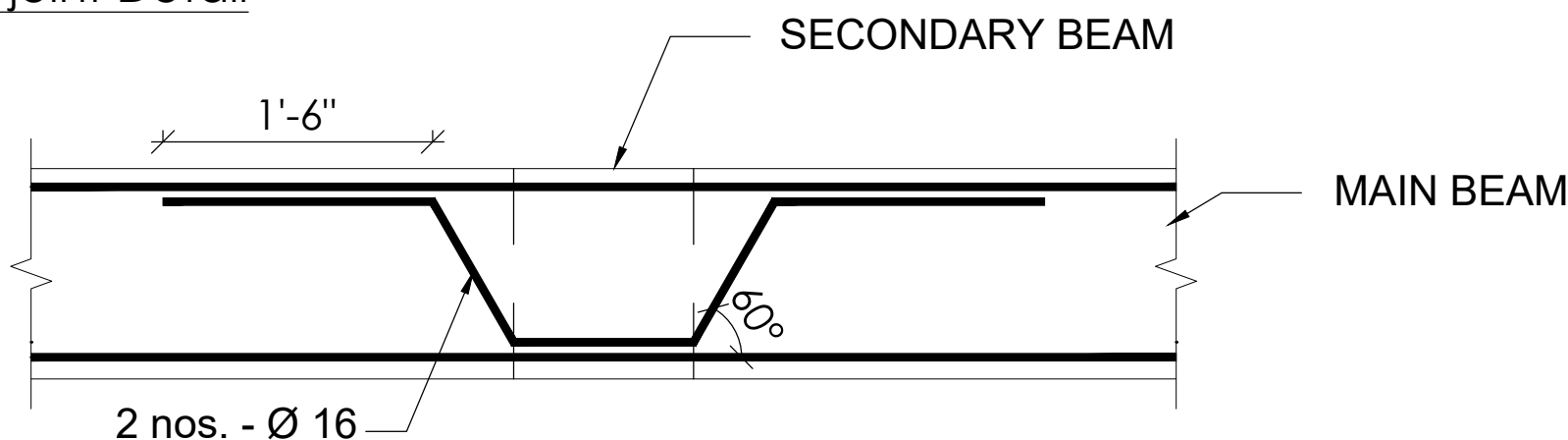


**Sectional Plan of Beam Column joint Detail**



**COLUMN BEAM JOINT DETAIL**

SCALE: 1"=2'-0"



**Connection Detail Between Main & Secondary Beam**

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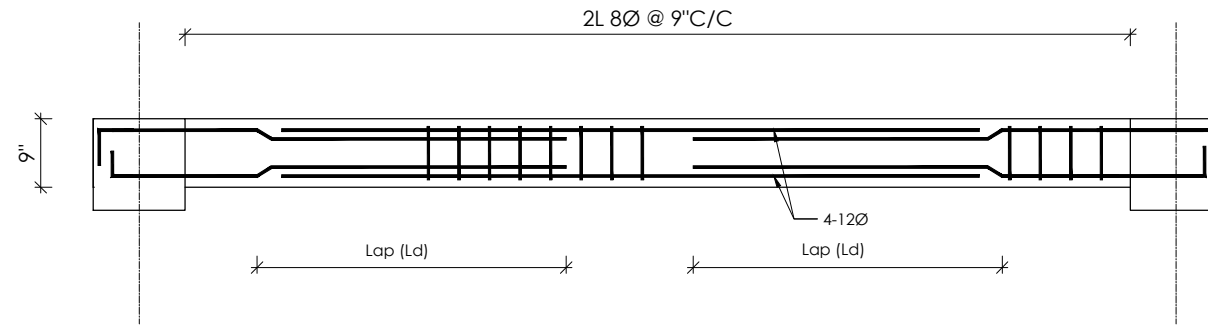
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General Details  
Date: April, 2021

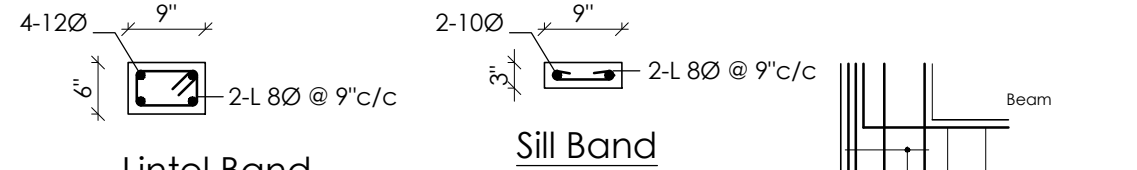
Dwg. No.  
**S8**

# GENERAL NOTES

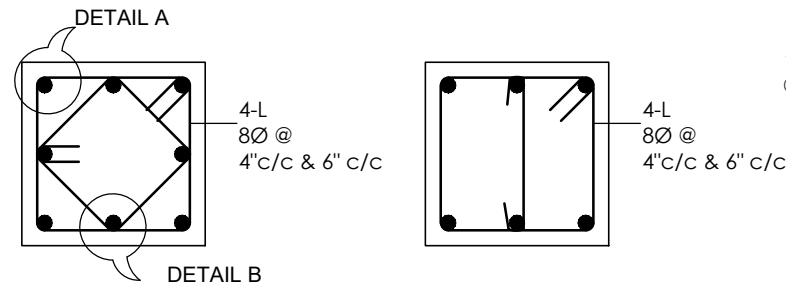
- USE M20 GRADE CONCRETE FOR ALL CONCRETE MEMBERS
- USE Fe500 GRADE STEEL ( $f_y=500N/mm^2$ )
  - CLEAR COVER TO BARS
    - FOR CONCRETE MEMBERS IN CONTACT WITH SOIL = 50mm
    - FOR LONGITUDINAL (VERTICAL) BARS IN COLUMN = 40mm
    - FOR MAIN BARS IN BEAMS = 25mm
    - FOR OUTER BARS IN SLAB = 20mm
- BARS IN COLUMNS SHALL BE SPLICED ONLY AT MID HEIGHT OF COLUMN.
- BARS SPLICING IN BEAM SHALL BE AVOIDED IN THE SPAN WHERE INTERMEDIATE BEAM IS CONNECTED AND SHALL BE ONLY AS SHOWN ON DWG.
- DEVELOPMENT / LAP LENGTH (Ld.) FOR BARS. 60 DIA OF BAR
- CLEAR VERTICAL DISTANCE BETWEEN TWO ROWS (LAYERS) OF BARS=25mm.
- PROVIDE SHEAR REINFORCEMENT AT 4" C/C AT LAP LOCATIONS.
- DIMENSIONS NOT TO BE MEASURED DIRECTLY FROM THE DRAWING.
- ANY DISCREPANCY OR OMISSION IN THE DRAWING IS FOUND SHALL BE REPORTED IMMEDIATELY TO THE DESIGNER/ SITE ENGINEER



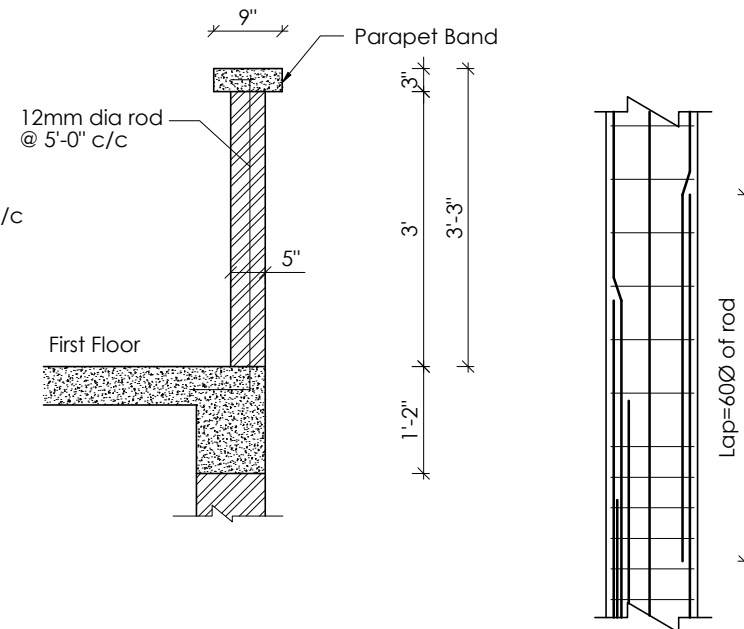
Longitudinal Section Plan (Lintel & Sill)



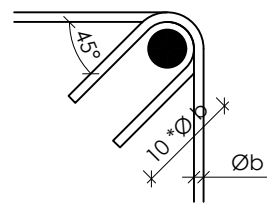
Lintel Band  
Sill Band  
**LINTEL & SILL BAND DETAIL**  
SCALE: 1"=2'-0"



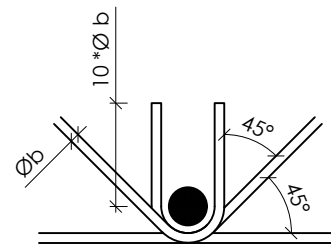
Typical X Section for Column



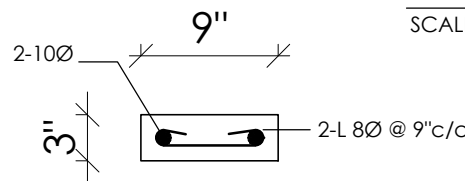
Typical Parapet Section  
SCALE: 1"=2'-0"  
DETAIL A  
SCALE: 1"=2'-0"



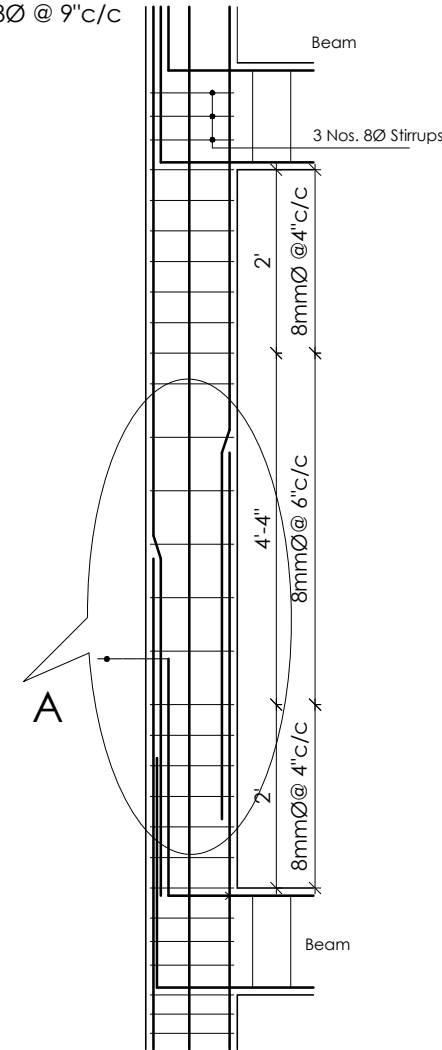
DETAIL A  
HOOK DETAIL



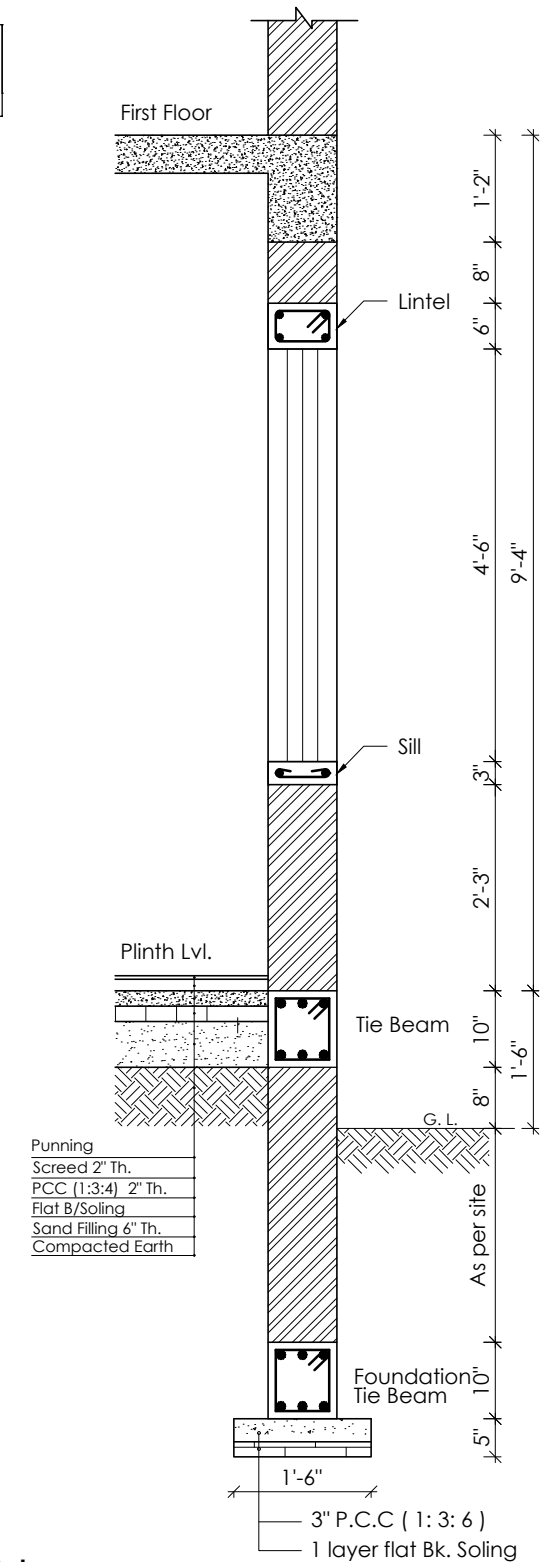
DETAIL B



Cross Section of Parapet Band



COLUMN L-SECTION LAP DETAIL  
SCALE: 1"=2'-0"



Typical Wall Section  
SCALE: 1"=2'-0"

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**Market Centre Development**

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Drawn by: Er. Sanjeev Thakuri  
Checked by: Er. Bikki Shyama

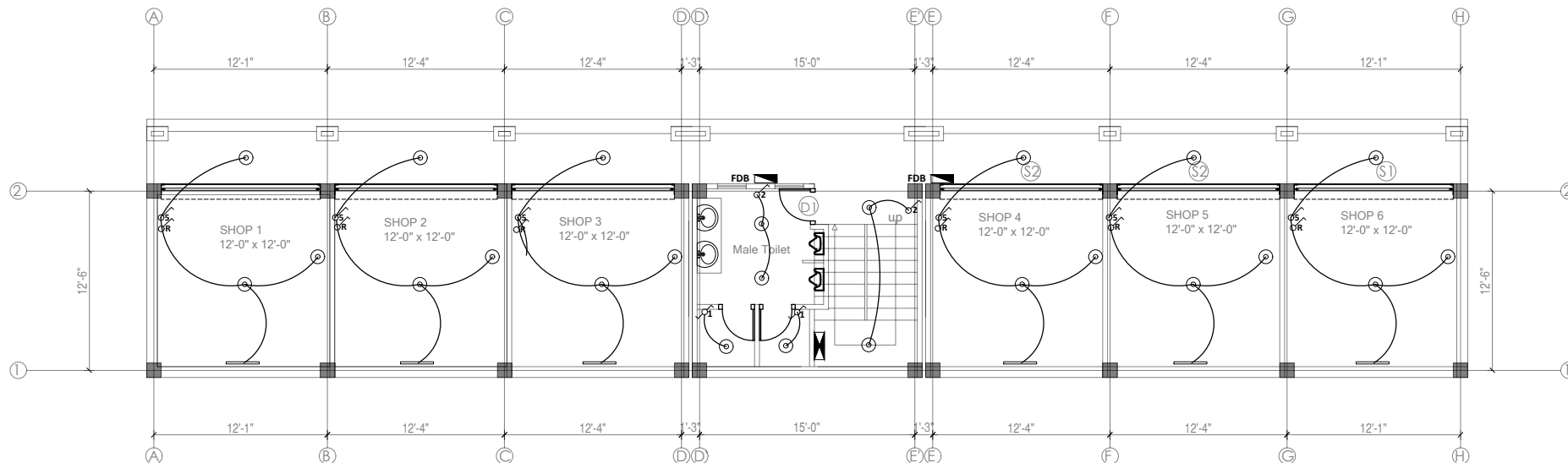
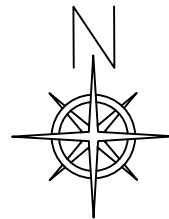
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Market Centre  
Scale: As shown

Sheet Title:  
General Details  
Date: April, 2021

Dwg. No.  
**S9**

# ELECTRICAL DRAWINGS

**BLOCK A**



LIGHT POINTS LAYOUT  
GROUND FLOOR PLAN  
BLOCK - A

S.No.	Symbol	Description	
1)		LED Tube Light 22W, 1200mm	2300
2)		6W LED SMD Downlight, Surface	Ceiling
3)		48" Ceiling Fan, 3 Blade Type	Ceiling
4)		2 Gang Modular Switch	1260
5)		3 Gang Modular Switch	1260
6)		4 Gang Modular Switch	1260
7)		8 Gang Modular Switch	1260
8)		1 Gang 2 Way Modular Switch	1260
		Fan Regulator	1260
		Final Distribution Board	
		Main Distribution Board	

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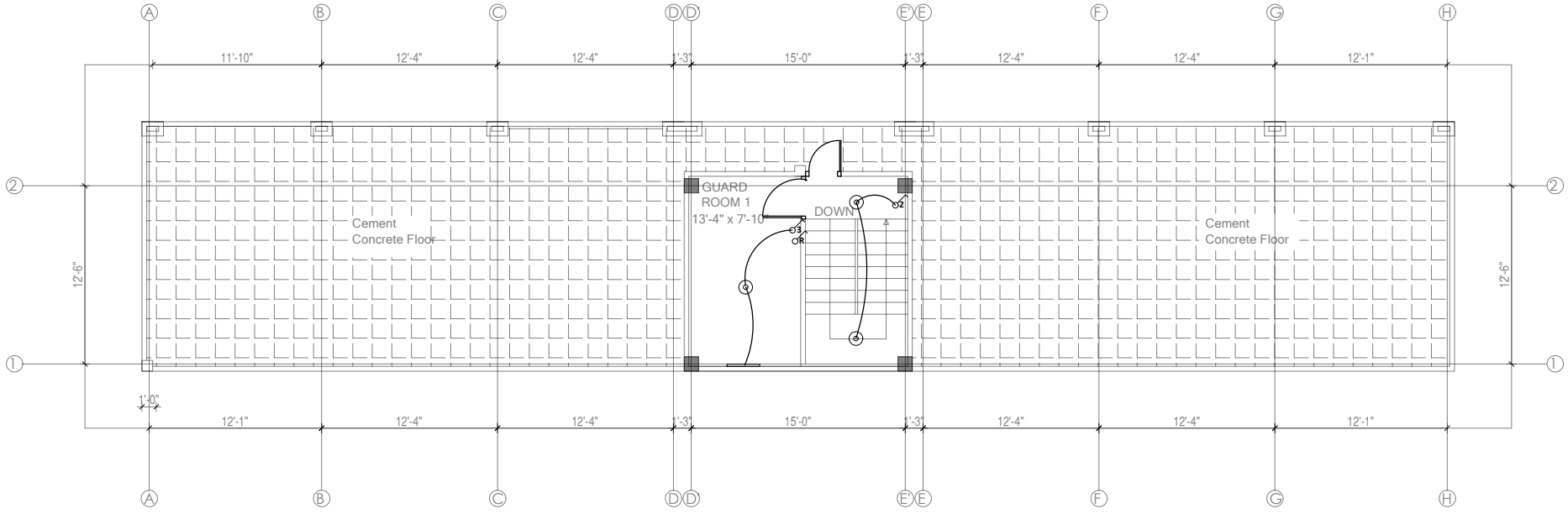
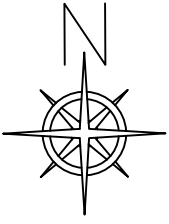
Design by: Er. Kushal Poudel  
Drawn by: Er. Sharon Maharjan  
Checked by: Er. Amit Jung Subedi

Building:  
Market Centre  
Scale: 1:96

Sheet Title:  
ELECTICAL DWG  
BLOCK-A  
Date: April, 2021

Dwg. No.

**E1**



**LIGHT POINTS LAYOUT  
ROOF PLAN  
BLOCK - A**

S.No.	Symbol	Description	
1)		LED Tube Light 22W, 1200mm	2300
2)		6W LED SMD Downlight, Surface	Ceiling
3)		48" Ceiling Fan, 3 Blade Type	Ceiling
4)		2 Gang Modular Switch	1260
5)		3 Gang Modular Switch	1260
6)		4 Gang Modular Switch	1260
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8)		1 Gang 2 Way Modular Switch	1260
		Fan Regulator	1260
		Final Distribution Board	
		Main Distribution Board	

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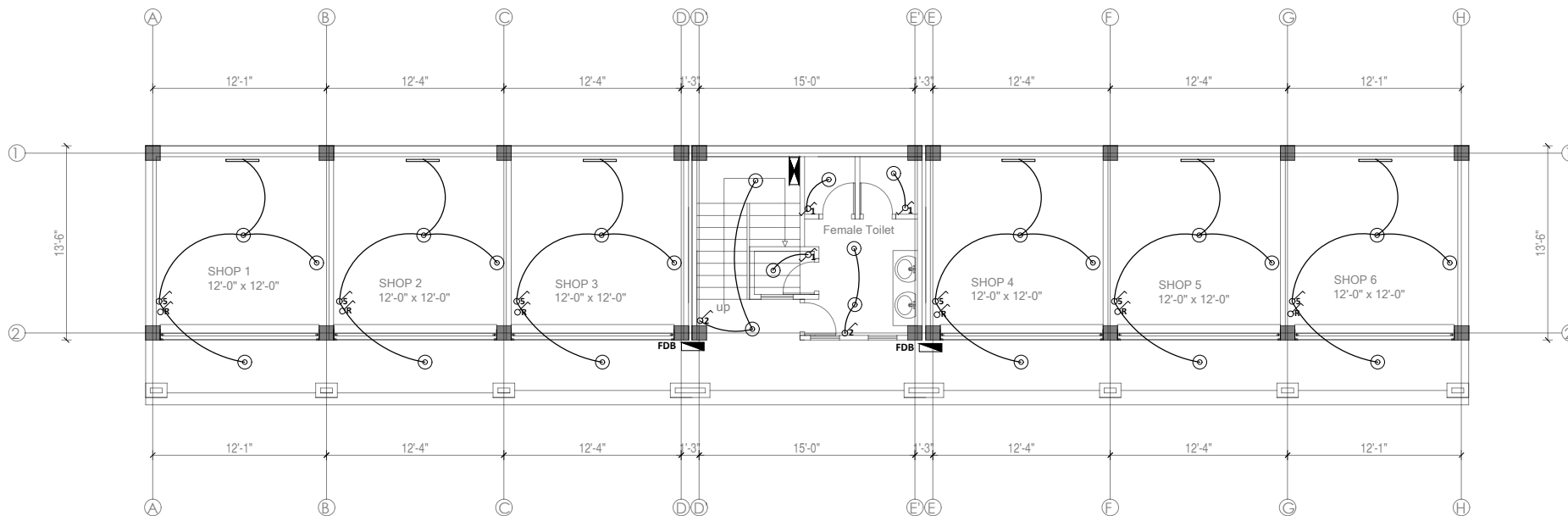
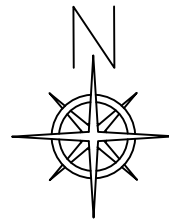
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Sheet Title:  
ELECTICAL DWG  
BLOCK-A  
Date: April, 2021

Dwg. No.  
**E2**



**BLOCK B**



LIGHT POINTS LAYOUT  
GROUND FLOOR PLAN  
BLOCK - B

S.No.	Symbol	Description	
1)		LED Tube Light 22W, 1200mm	2300
2)		6W LED SMD Downlight, Surface	Ceiling
3)		48" Ceiling Fan, 3 Blade Type	Ceiling
4)		2 Gang Modular Switch	1260
5)		3 Gang Modular Switch	1260
6)		4 Gang Modular Switch	1260
7)		8 Gang Modular Switch	1260
8)		1 Gang 2 Way Modular Switch	1260
		Fan Regulator	1260
		Final Distribution Board	
		Main Distribution Board	

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Project:  
**Market Centre Development**

Design by: Er. Kushal Poudel

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Checked by: Er. Amit Jung Subedi

Building:  
Market Centre

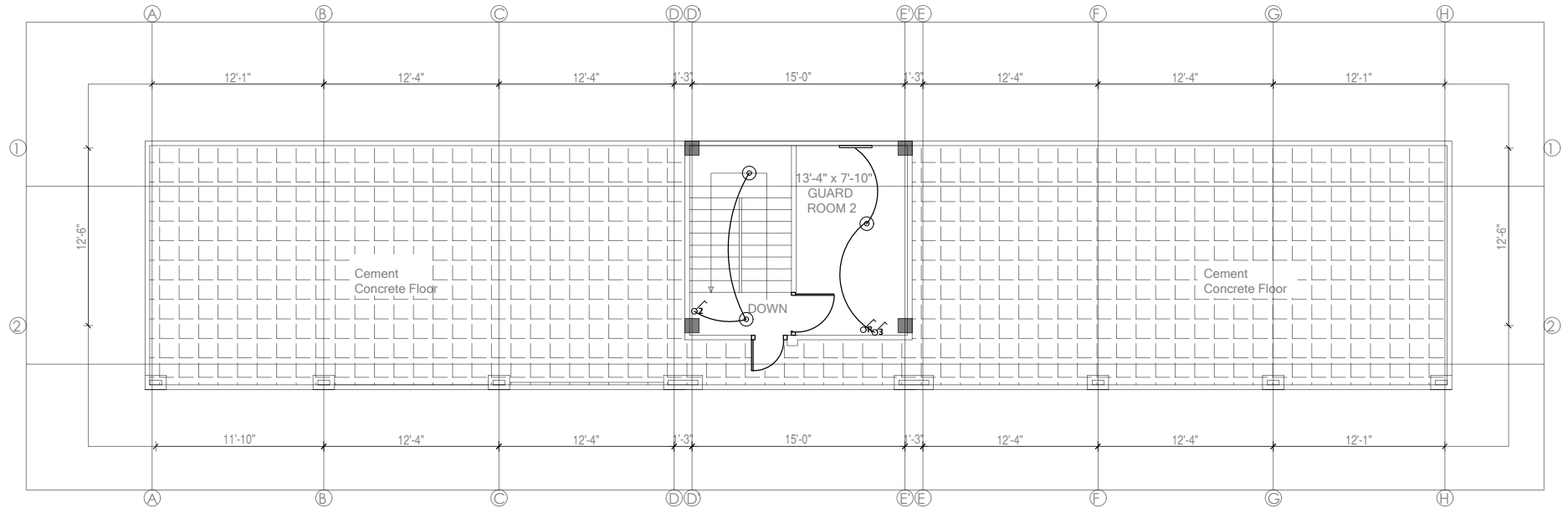
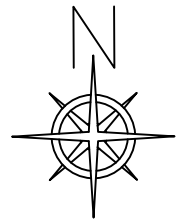
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Sheet Title:  
ELECTICAL DWG  
BLOCK-B

Date: April, 2021

Dwg. No.

**E1**



**LIGHT POINTS LAYOUT  
ROOF PLAN  
BLOCK - B**

S.No.	Symbol	Description	
1)		LED Tube Light 22W, 1200mm	2300
2)		6W LED SMD Downlight, Surface	Ceiling
3)		48" Ceiling Fan, 3 Blade Type	Ceiling
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Project:  
**Market Centre Development**

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Drawn by: Er. Sharon Maharjan  
Checked by: Er. Amit Jung Subedi

Building:  
Market Centre  
Scale: 1:96

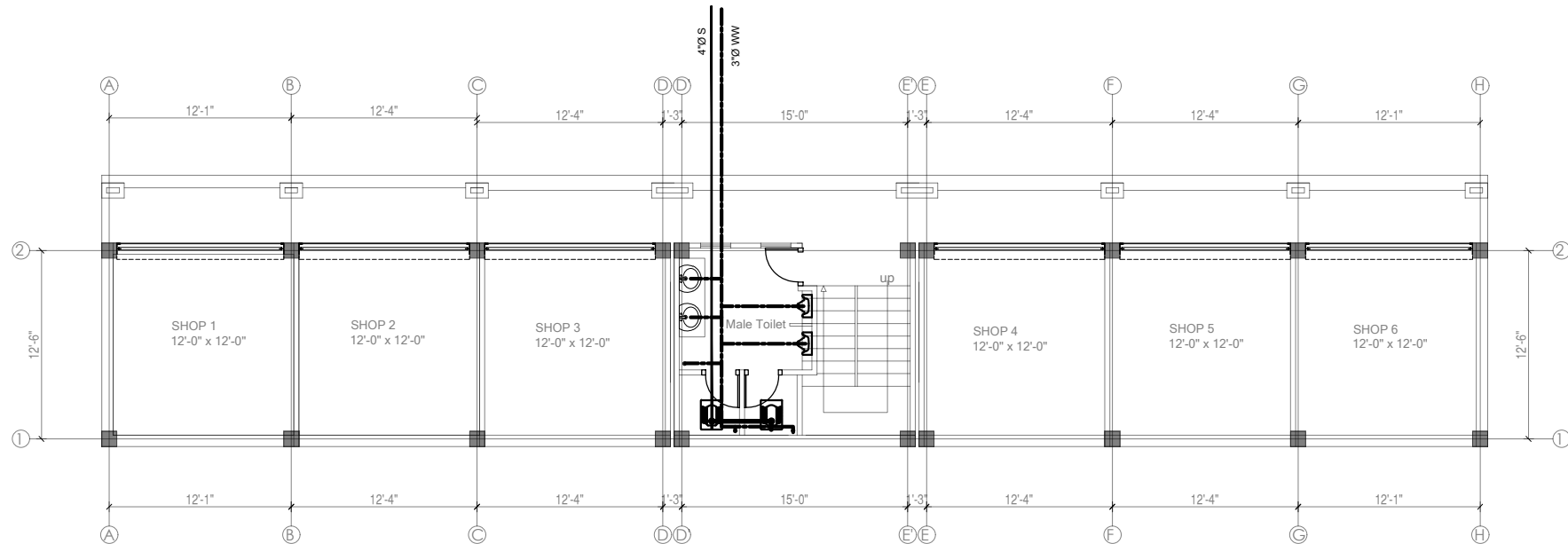
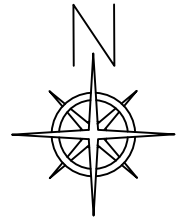
Sheet Title:  
ELECTICAL DWG  
BLOCK-B  
Date: April, 2021

Dwg. No.

**E2**

# SANITARY DRAWINGS

**BLOCK A**



**SOIL & WASTE WATER PIPELINE LAYOUT PLAN**

GROUND FLOOR PLAN (BLOCK-A)

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

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Project:  
**Market Centre Development**

Design by: Er. Bishal Neupane

Drawn by: Er. Sharon Maharjan

Checked by: Er. Amit Jung Subedi

Building:  
 Market Centre

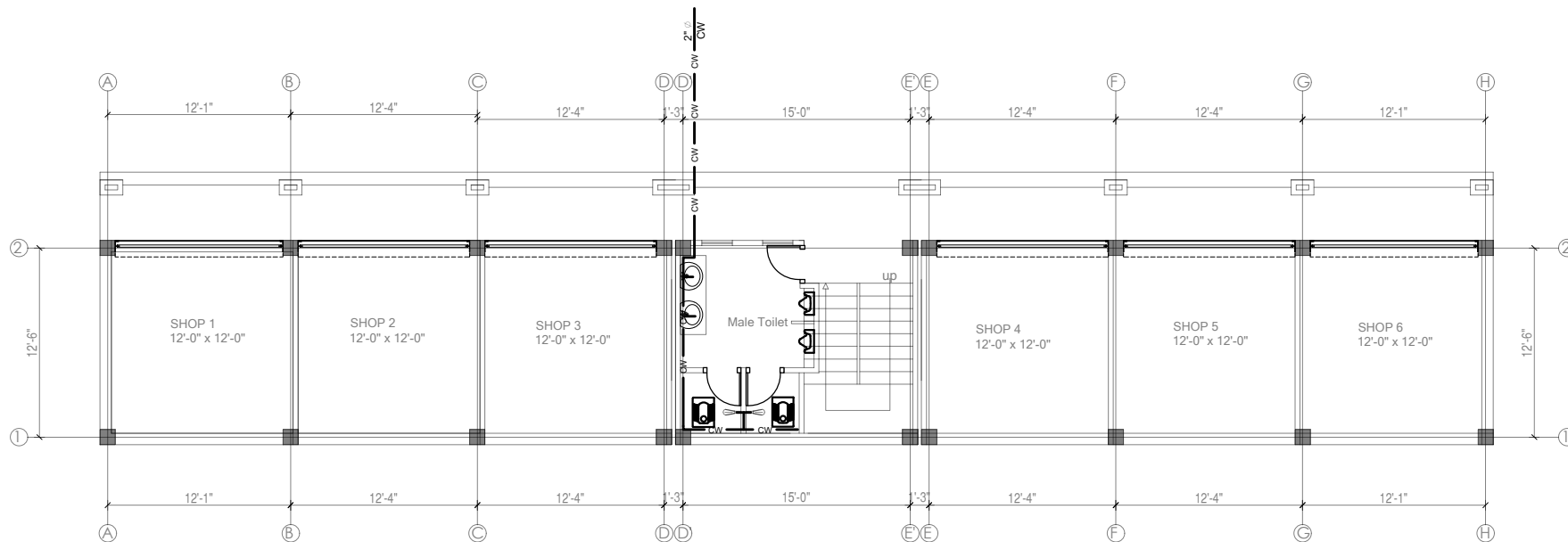
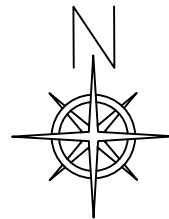
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Sheet Title:  
 SANITARY DWG  
 BLOCK-A

Date: April, 2021

Dwg. No.

**S1**



**WATER SUPPLY PIPELINE LAYOUT PLAN**

GROUND FLOOR PLAN (BLOCK-A)

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

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Project:  
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Design by: Er. Bishal Neupane

Drawn by: Er. Sharon Maharjan

Checked by: Er. Amit Jung Subedi

Building:  
 Market Centre

Scale: 1:96

Sheet Title:  
 WATER SUPPLY  
 BLOCK-A

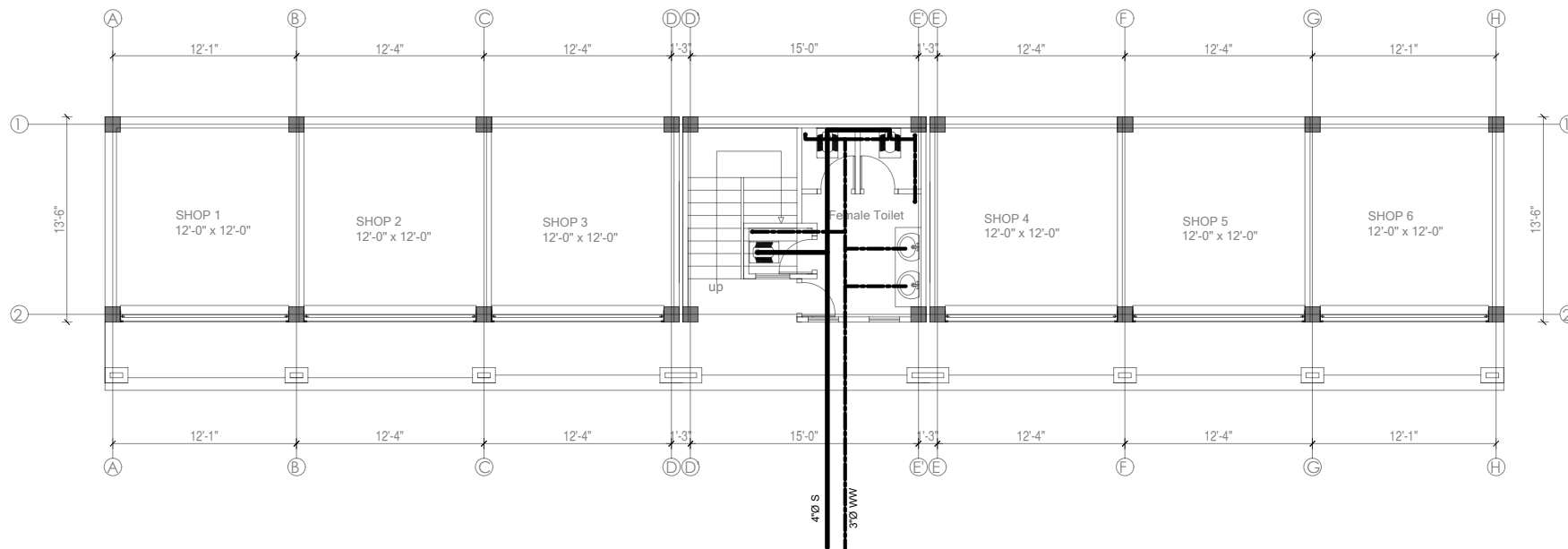
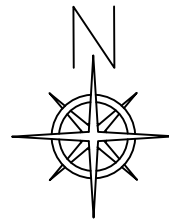
Date: April, 2021

Dwg. No.

**S2**

**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

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Building:  
 Market Centre

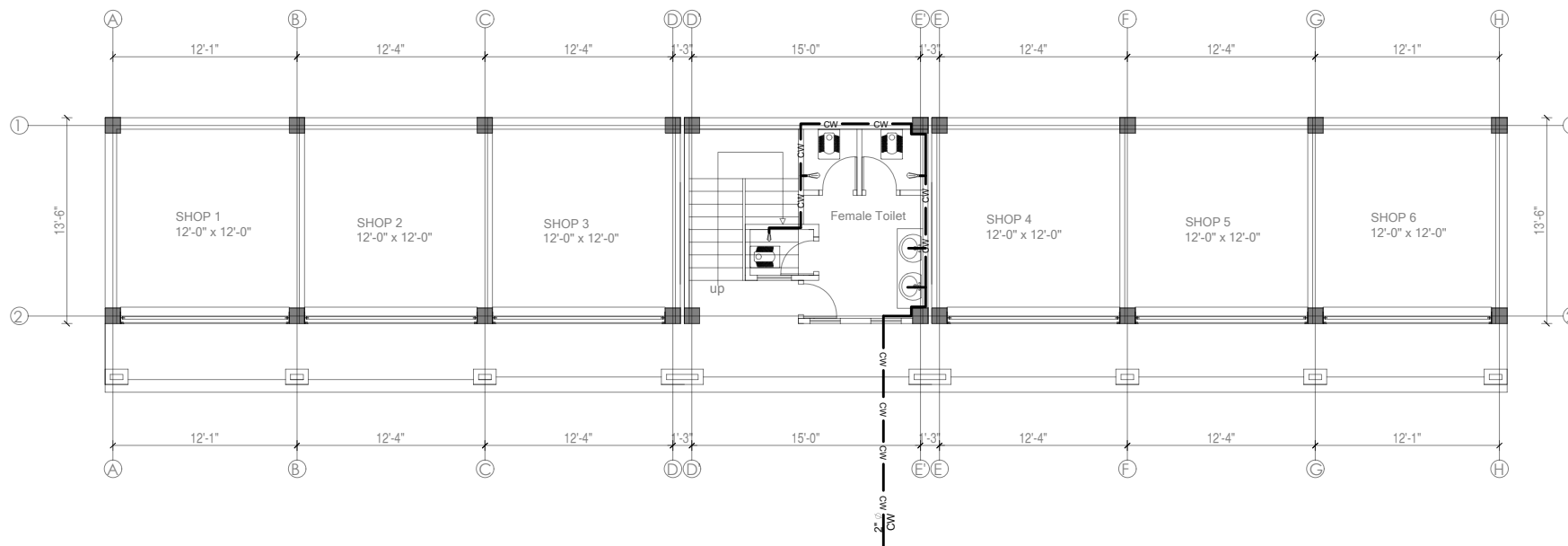
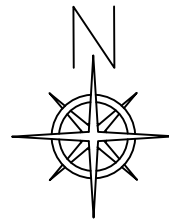
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Sheet Title:  
 SANITARY DWG  
 BLOCK-B

Date: April, 2021

Dwg. No.

**S1**



**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

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Building:  
Market Centre

Scale: 1:96

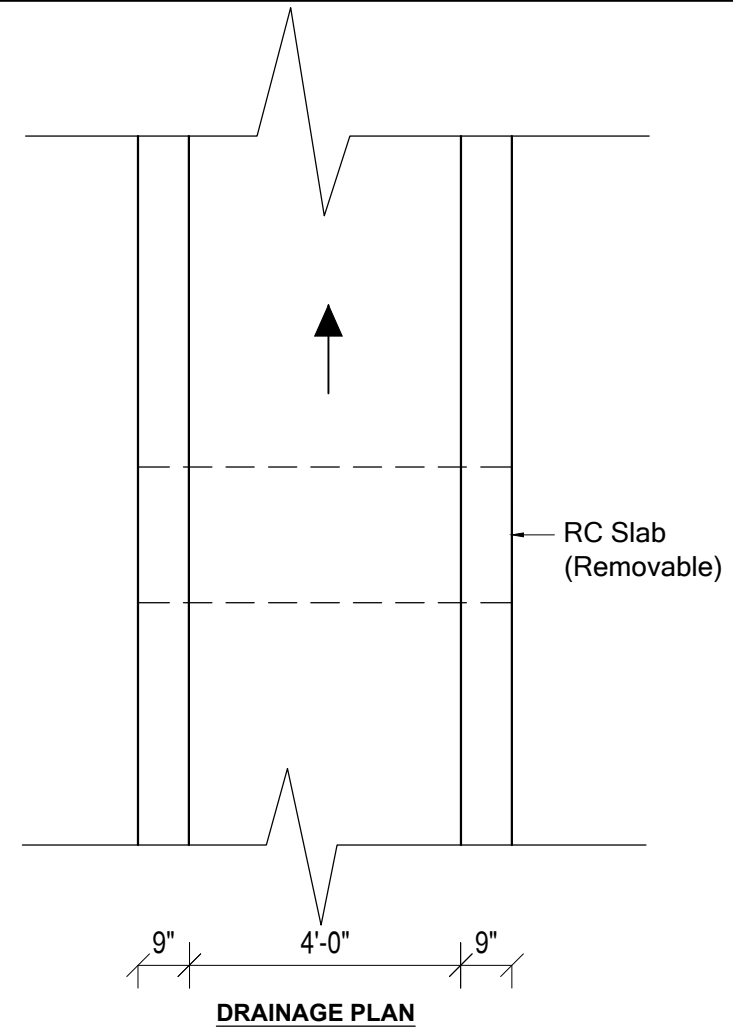
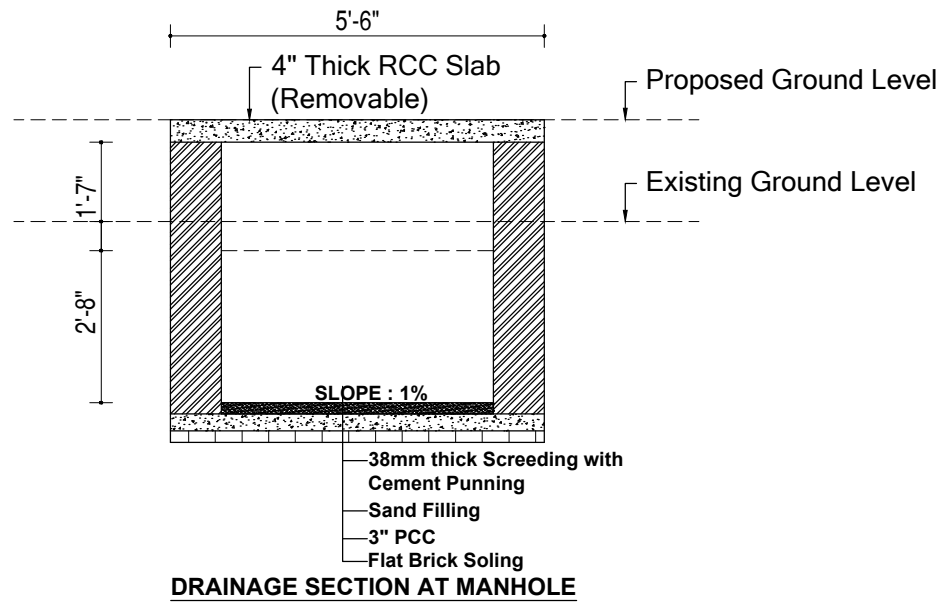
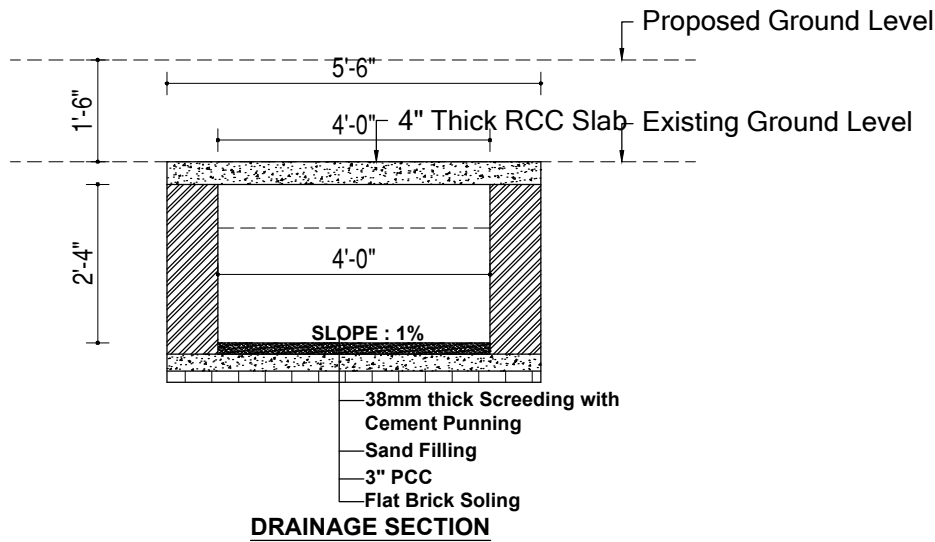
Sheet Title:  
WATER SUPPLY  
BLOCK-B

Date: April, 2021

Dwg. No.

**S3**

**DRAINAGE  
SOAK PIT  
AND  
SEPTIC TANK**



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Project:  
**Market Centre Development**

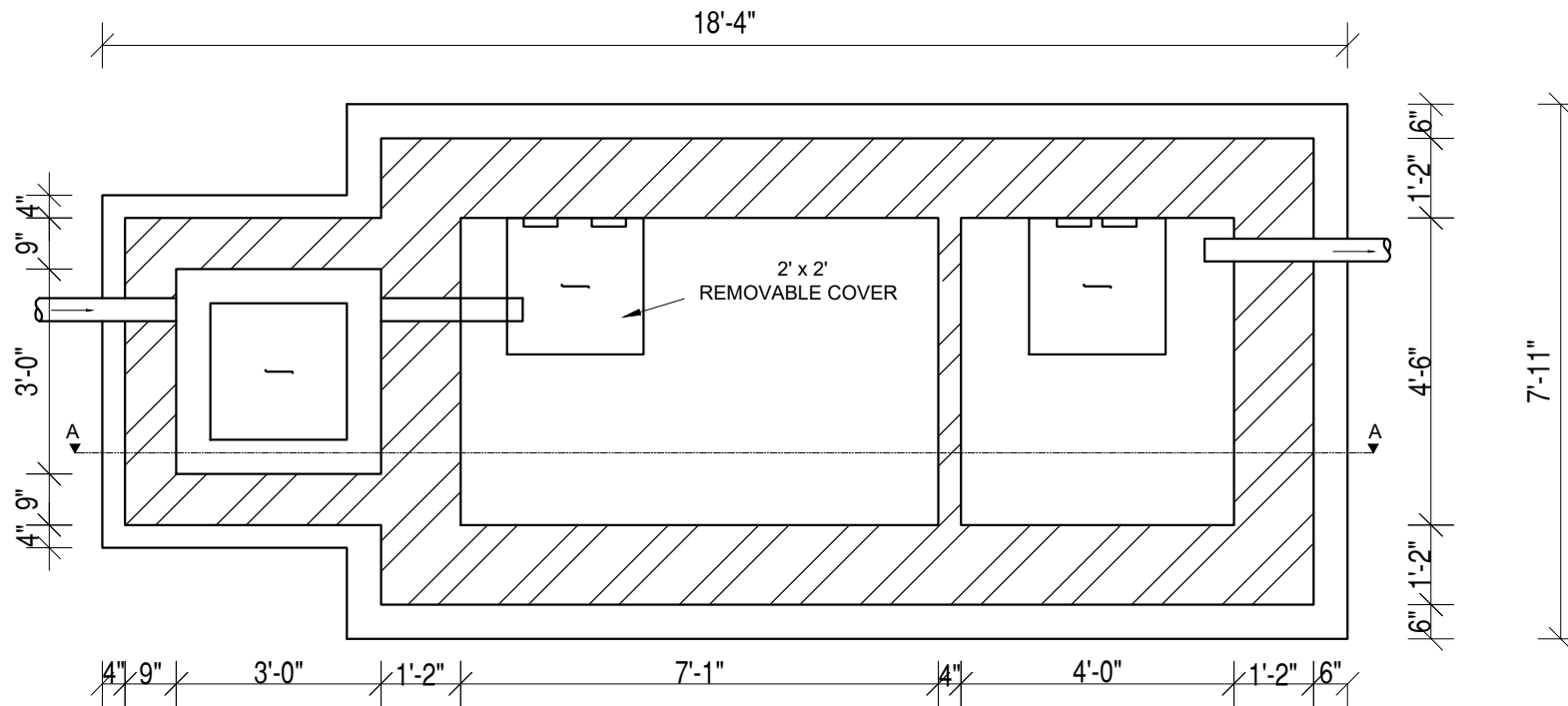
Design by: Ar. Suvekshya Acharya  
Drawn by: Ar. Suvekshya Acharya  
Checked by: Er. Amit Jung Subedi

Building:  
Market Centre  
Scale: 1:24

Sheet Title:  
DRAINAGE PLAN  
& SECTION  
Date: April, 2021

Dwg. No.

**S1**



PLAN OF SEPTIC TANK

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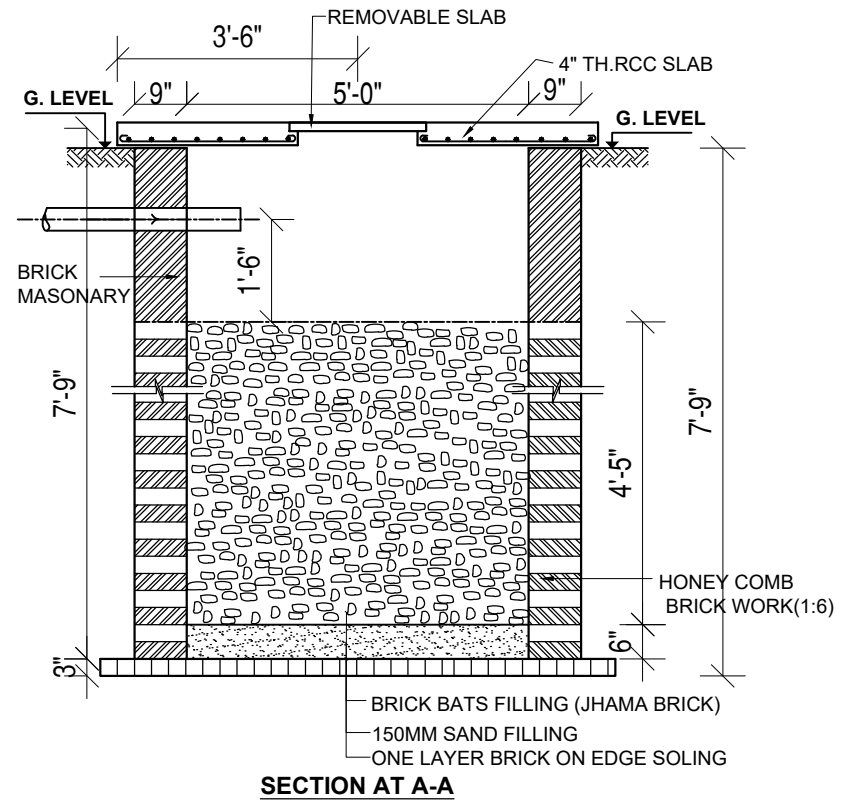
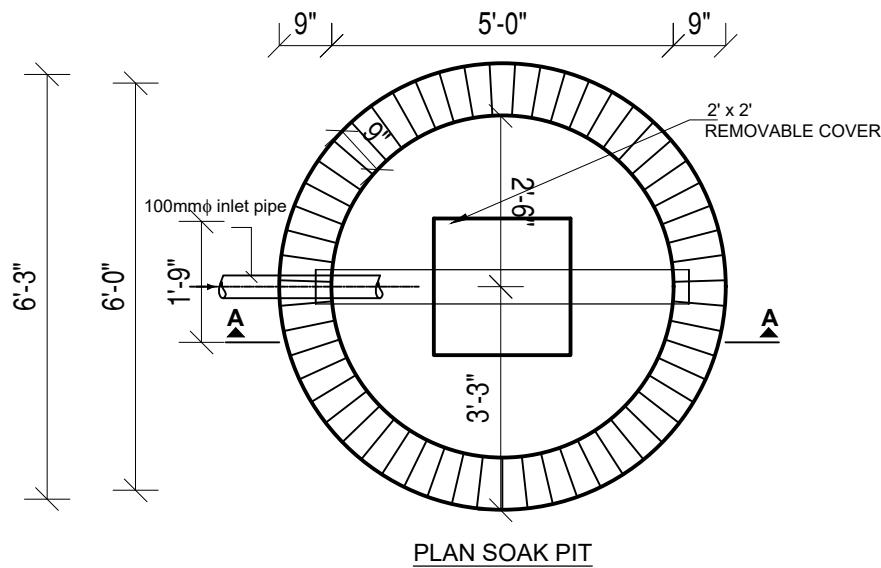
Project:  
**Market Centre Development**

Design by: Ar. Suvekshya Acharya  
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Building:  
 Market Centre  
 Scale: 1:24

Sheet Title:  
 SEPTIC TANK  
 PLAN  
 Date: April, 2021

Dwg. No.  
**S2**



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Project:  
**Market Centre Development**

Design by: Ar. Suvekshya Acharya

Building:  
Market Centre

Sheet Title:  
SOAK PIT  
PLAN AND SECTION

Dwg. No.

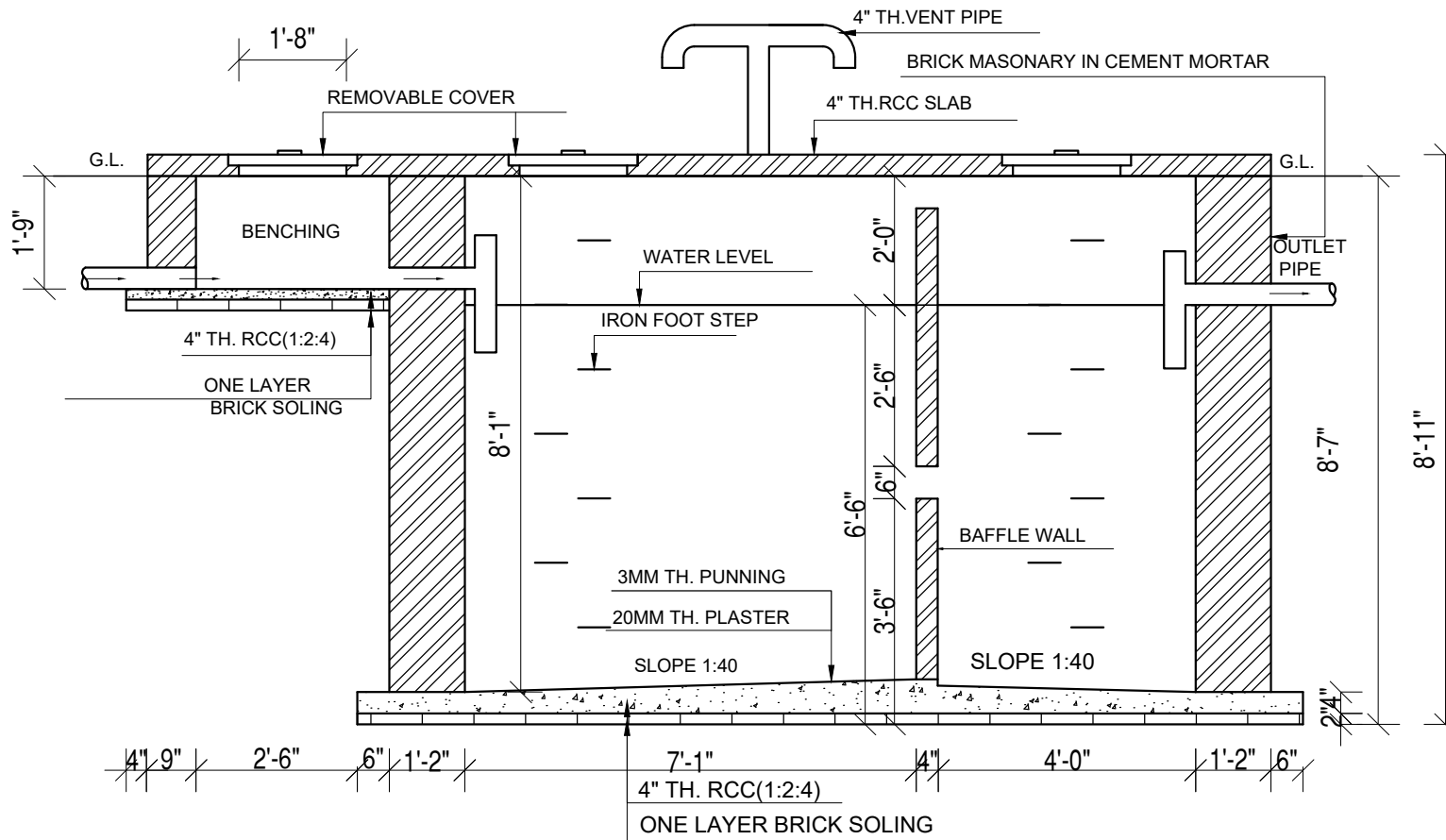
Drawn by: Ar. Suvekshya Acharya

Checked by: Er. Amit Jung Subedi

Scale: 1:24

Date: April, 2021

S3



SECTION AT A-A

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Project:  
**Market Centre Development**

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

Building:  
Market Centre  
Scale: 1:24

Sheet Title:  
SEPTIC TANK  
Date: April, 2021

Dwg. No.  
**S4**