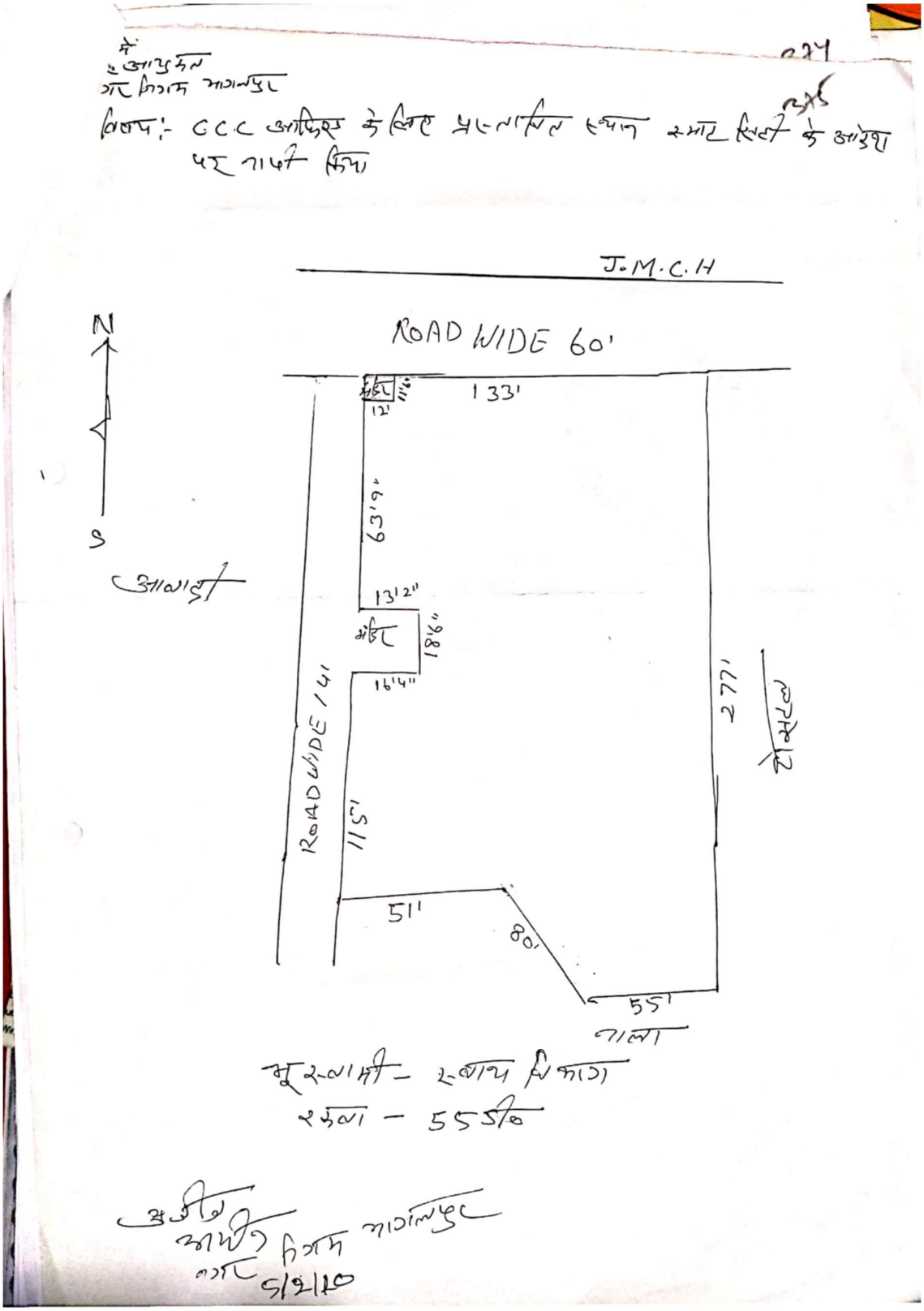
ANNEXURE I: **Site Map of the Proposed Site** as made available by BSCL



Site Area =3003.03 sqm
Ground Coverage = 775.87 sqm = 25.84 %
Total BUA =Ground floor + First Floor =776.44 sqm + 713.18 sqm = 1489.62 sqm

Allowed FAR= 2.5, Achieved FAR = BUA/Site Area= (1489.62/3003.03)=0.49

Parking Calculation
= 30% of BUA = 30% X 1489.62 = 446.88 sqm of ECS
Car parking space = $\frac{2}{3}$ X 446.88 = 297.92 sqm
No of Cars = Car parking Space/1 car parking space = 297.92/12.5 sqm= 23.83 cars= 24 cars
Bike parking space = $\frac{1}{3}$ X 446.88 =148.96 sqm
No of Bikes = Bike parking space / 1 bike parking space = 148.96/2 sqm = 74.48 Bikes = 75 bikes

NOTES

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4. Grade of concrete shall be **M-20** & shall be confirming to IS: 456 - 2000.
5. Reinforcement steel shall be High Strength Deformed TMT bars as per IS: 1786 - 1985 and having a minimum yield strength of **500** N/mm2 and having elongation more than14.5%.
6. Clear cover to main reinforcement shall be 50 mm for footing,40 mm for column, 25 mm for Beam and 20 mm for slab. Side cover of footing shall be 75 mm.
7. Not more than 50% of bars shall be lapped at any section.
8. Lap length shall be equal to Ld = 57 times smaller Dia of bars and shall be avoided in following cases - Top bars - near support, Bottom bars - near mid span.
9. Wherever necessary chairs shall be provided to support the top reinforcement in position.
10. All concrete shall be machine mixed and machine vibrated.
11. Sufficient concrete cube test and steel yield strength test is to be performed for different batches & report shall be submitted to proper authority.
12. Bearing Capacity of the soil is **6 T/m² at 7m** below Ground level as per soil test report.
13. Foundation has been designed for **(G +2).** structure only.
14. Ld means 57 times of dia of bars.
15. Structure is designed for earthquake zone **III**
16. For any ambiguity,discripancy, deficient provision (if any felt necessary) etc must be brought to the notice of consultant/design office for clarification and work must be carried out after obtaining approval from competent authority.

Schedule of Area

Plot Area = 3003.03 sqm	
Ground floor area =	776.44 sqm
First floor area =	735.50 sqm
Total BUA = Total floor area=	1,511.94 sqm

Opening or Door/Window SCHEDULE

S.NO.	TYPE	NAME	SIZE	TOTAL NOs.	REMARKS
1.	D	Door	3,200x2,500	1	Double Shutter wooden door
2.	D1	Door	0,900x2,100	40	Single Shutter wooden door
3.	D2	Door	1,200x2,100	4	Double Shutter wooden door
4.	D3	Door	0,750x2,100	56	Single Shutter pvc door
5.	D4	Door	1,200x2,100	1	Double Shutter wooden door
6.	D5	Door	1,000x2,100	2	Sliding wooden door
7.	D6	Door	1,000x2,100	4	Single Shutter wooden door
8.	W	Window	2,000x1,700	20	Aluminium glazed sliding
9.	W1	Window	1,900x1,700	1	Aluminium glazed sliding
10.	W2	Window	3,100x2,300	2	Aluminium glazed sliding
11.	W3	Window	1,000x1,700	1	Aluminium glazed sliding
12.	W4	Window	1,200x1,700	6	Aluminium glazed sliding
13.	W5	Window	1,800x1,200	55	Aluminium glazed sliding
14.	W6	Window	0,900x1,200	3	Aluminium glazed sliding
15.	W7	Window	1,200x1,700	2	Aluminium glazed sliding
16.	W8	Window	1,800x1,700	1	Aluminium glazed sliding
17.	V	Ventilator	0,600x0,600	44	Aluminium glazed louered
18.	G1	Fixed Glass	0,600x1,700	10	Aluminium glazed
19.	G2	Glass panel	3,200x2,500	1	Toughened glass
20.	G3	Fixed Glass	1,200x1,700	1	Aluminium glazed

Sheet Title -
Architectural Drawings

Proposed Night Shelter at, Bhagalpur

Drawing No- 00. Site Plan

Sheet no - 00

Project - Night Shelter Model

Client -

Consultant -
MaRS Planning and Engineering Services PVT. Ltd.

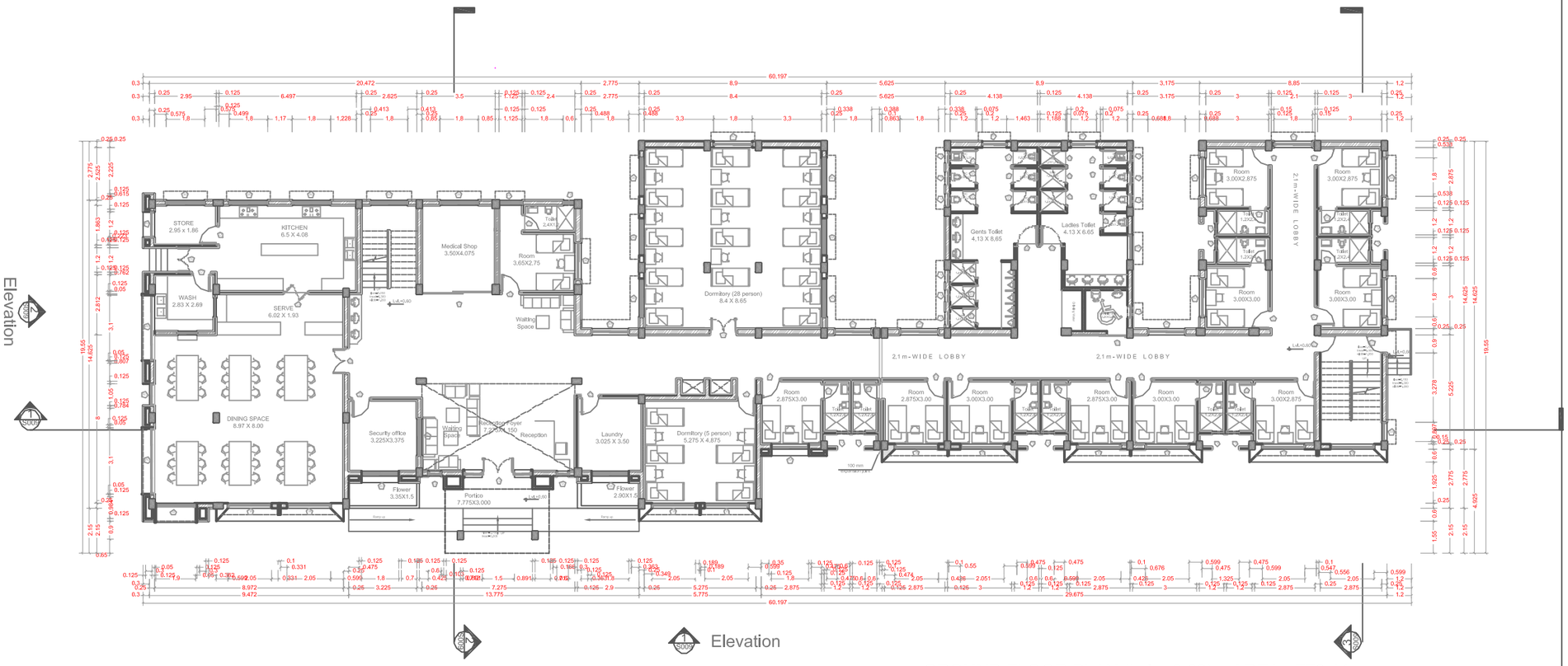
Date : 25-04-2020

Scale : NTS

North

Drawn By - Swati Priya

Checked By - Gautam K. Modi



GROUND FLOOR PLAN (Lvl.+ 0.60) AREA =776.44 sqm

NOTES

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15. Structure is designed for earthquake zone **III**
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Schedule of Area

Plot Area = 3003.03 sqm

Ground floor area =	776.44 sqm
First floor area =	735.50 sqm
Total BUA = Total floor area=	1,511.94 sqm

Opening or Door/Window SCHEDULE

S.NO.	TYPE	NAME	SIZE	TOTAL NOs.	REMARKS
1.	D	Door	3.200x2.500	1	Double Shutter wooden door
2.	D1	Door	0.900x2.100	40	Single Shutter wooden door
3.	D2	Door	1.200x2.100	4	Double Shutter wooden door
4.	D3	Door	0.750x2.100	56	Single Shutter pvc door
5.	D4	Door	1.200x2.100	1	Double Shutter wooden door
6.	D5	Door	1.000x2.100	2	Sliding wooden door
7.	D6	Door	1.000x2.100	4	Single Shutter wooden door
8.	W	Window	2.000x1.700	20	Aluminium glazed sliding
9.	W1	Window	1.900x1.700	1	Aluminium glazed sliding
10.	W2	Window	3.100x2.300	2	Aluminium glazed sliding
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13.	W5	Window	1.800x1.200	55	Aluminium glazed sliding
14.	W6	Window	0.900x1.200	3	Aluminium glazed sliding
15.	W7	Window	1.200x1.700	2	Aluminium glazed sliding
16.	W8	Window	1.800x1.700	1	Aluminium glazed sliding
17.	V.	Ventilator	0.600x0.600	44	Aluminium glazed louvered
18.	G1	Fixed Glass	0.600x1.700	10	Aluminium glazed
19.	G2	Glass panel	3.200x2.500	1	Toughened glass
20.	G3	Fixed Glass	1.200x1.700	1	Aluminium glazed

Sheet Title -
Architectural Drawings

Proposed Night Shelter at, Bhagalpur

Drawing No- 01. Ground floor Plan

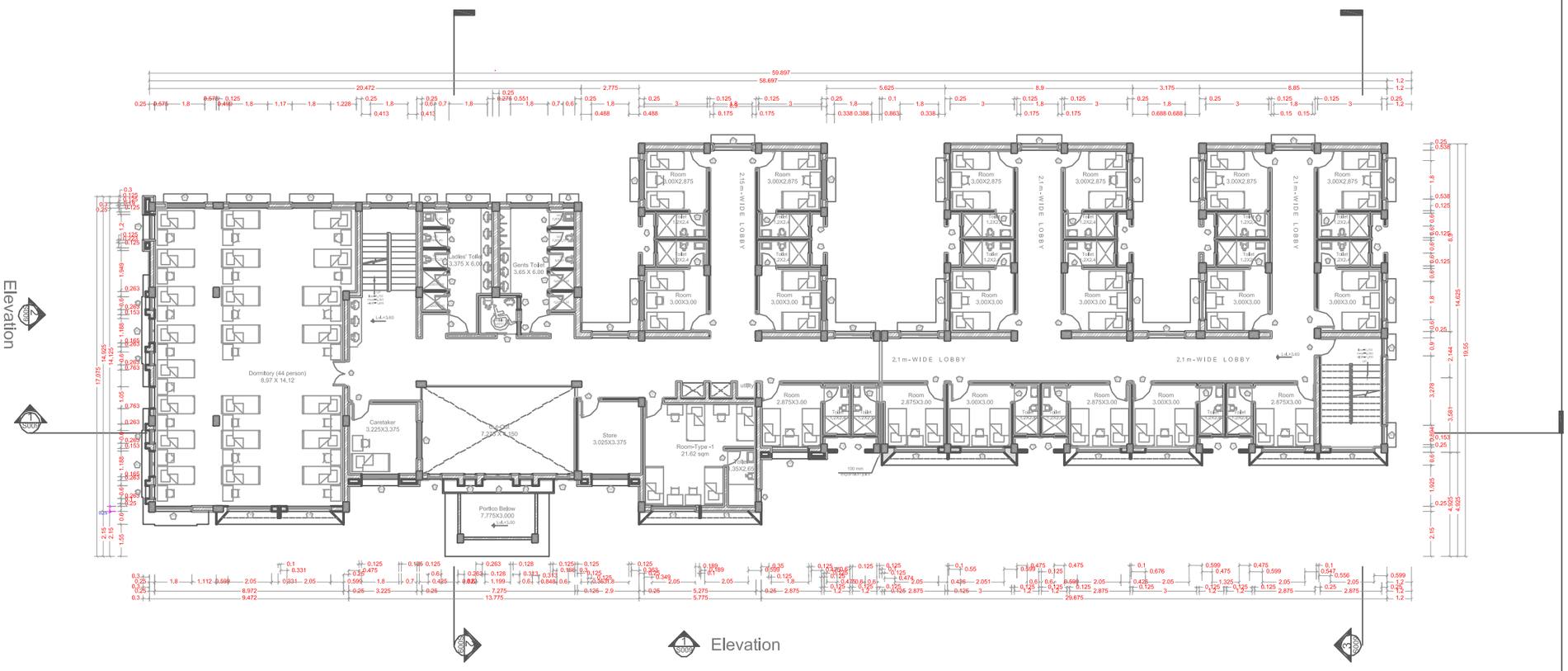
Sheet no - 01

Project - Night Shelter Model

Client -

Consultant -
MaRS Planning and Engineering Services PVT. Ltd.

Date :	North	Drawn By -
25-04-2020	N	Swati Priya
Scale :		Checked By -
NTS		Gautam K. Modi



FIRST FLOOR PLAN (Lvl.+ 3.60) AREA =735.50 sqm

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11. Sufficient concrete cube test and steel yield strength test is to be performed for different batches & report shall be submitted to proper authority.
12. Bearing Capacity of the soil is **6 T/m² at 7m** below Ground level as per soil test report.
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15. Structure is designed for earthquake zone **III**
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Schedule of Area

Plot Area = 3003.03 sqm

Ground floor area =	776.44 sqm
First floor area =	735.50 sqm
Total BUA = Total floor area=	1,511.94 sqm

Opening or Door/Window SCHEDULE

S.NO.	TYPE	NAME	SIZE	TOTAL NOs.	REMARKS
1.	D	Door	3.200x2.500	1	Double Shutter wooden door
2.	D1	Door	0.900x2.100	40	Single Shutter wooden door
3.	D2	Door	1.200x2.100	4	Double Shutter wooden door
4.	D3	Door	0.750x2.100	56	Single Shutter pvc door
5.	D4	Door	1.200x2.100	1	Double Shutter wooden door
6.	D5	Door	1.000x2.100	2	Sliding wooden door
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20.	G3	Fixed Glass	1.200x1.700	1	Aluminium glazed

Sheet Title -
Architectural Drawings

Proposed Night Shelter at, Bhagalpur

Drawing No- 02. First floor Plan

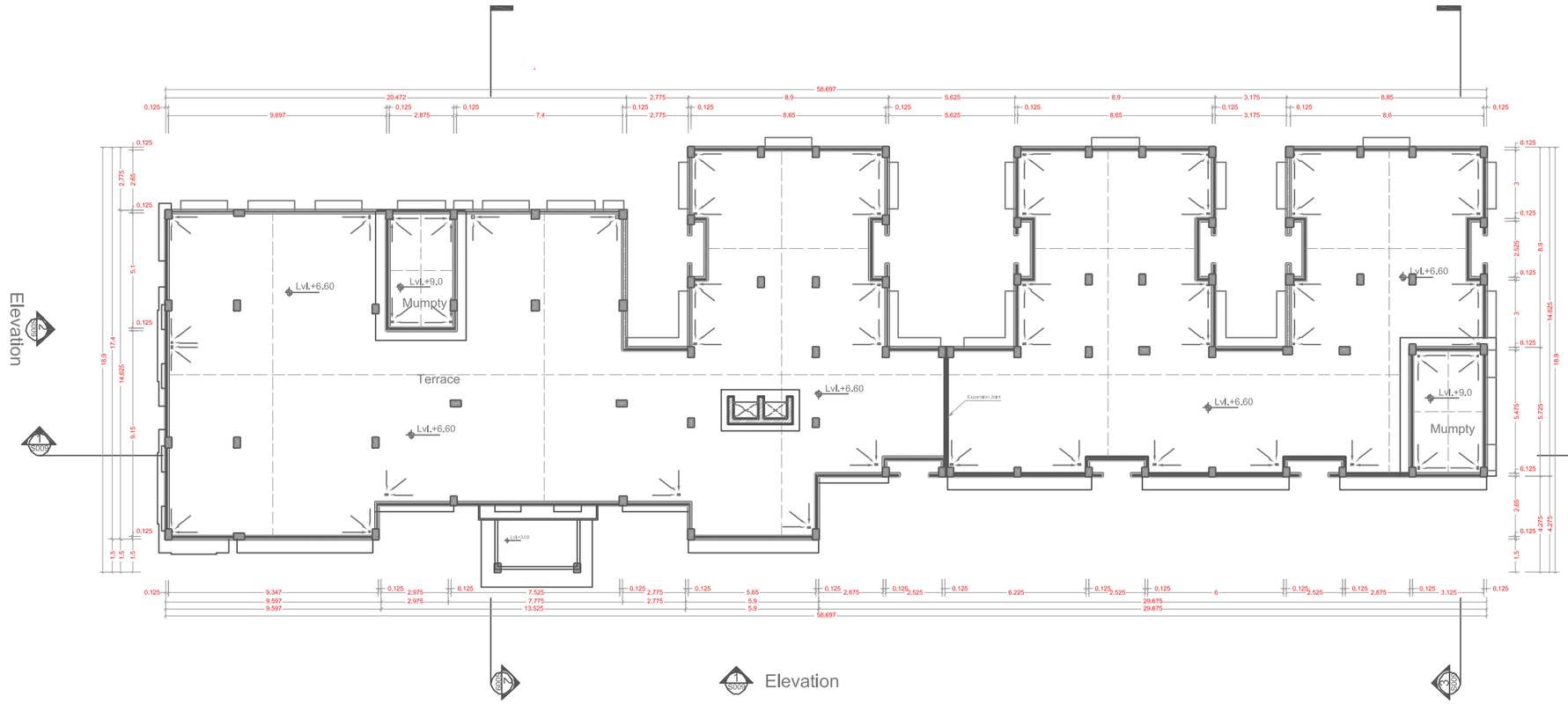
Sheet no - 02

Project - Night Shelter Model

Client -

Consultant -
MaRS Planning and Engineering Services PVT. Ltd.

Date :	North	Drawn By -
25-04-2020	N	Swati Priya
Scale :		Checked By -
NTS		Gautam K. Modi



TERRACE FLOOR PLAN (Lvl.+ 6.60) AREA =743.75 sqm

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Schedule of Area

Plot Area = 3003.03 sqm

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Sheet Title -
Architectural Drawings

Proposed Night Shelter at, Bhagalpur

Drawing No- 03. Roof Plan

Sheet no - 03

Project - Night Shelter Model

Client -

Consultant -
MaRS Planning and Engineering Services PVT. Ltd.

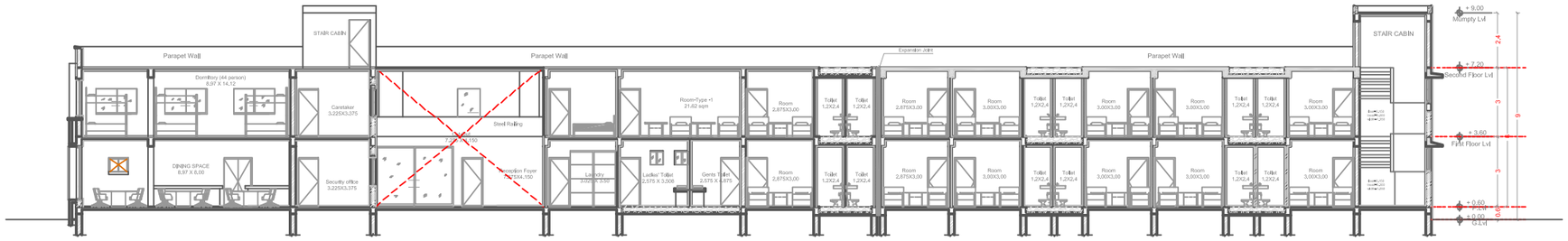
Date : 25-04-2020

Scale : NTS

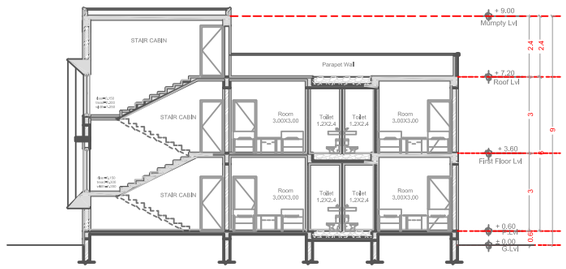
North

Drawn By - Swati Priya

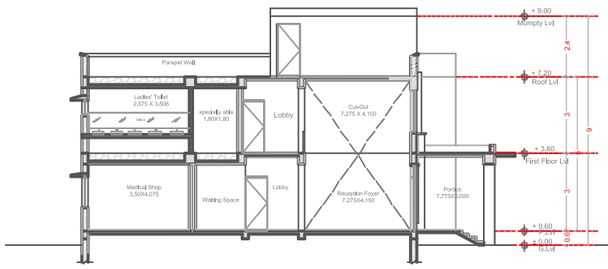
Checked By - Gautam K. Modi



SECTION S004

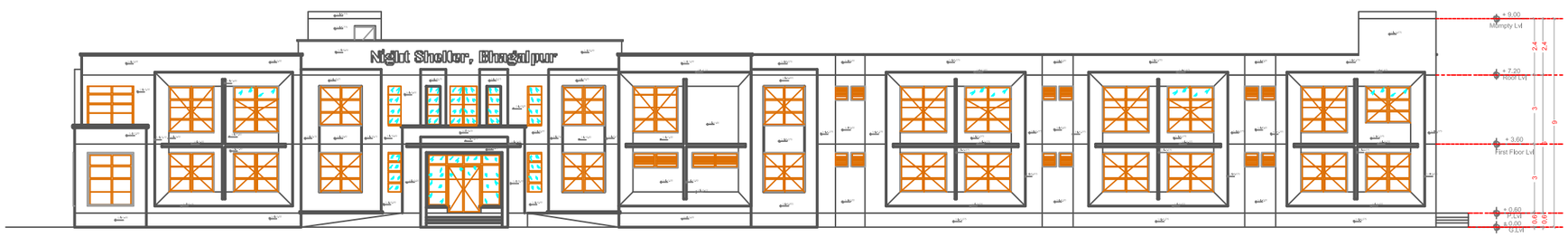


SECTION S004



SECTION S004

ELEVATION



ELEVATION

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Schedule of Area

Plot Area = 3003.03 sqm

Ground floor area = 776,44 sqm

First floor area = 735.50 sqm

Total BUA = Total floor area= 1,511.94 sqm

Opening or Door/Window SCHEDULE

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14.	W6	Window	0,900x1,200	3	Aluminium glazed sliding
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20.	G3	Fixed Glass	1,200x1,700	1	Aluminium glazed

Sheet Title -

Architectural Drawings

Proposed Night Shelter at, Bhagalpur

Drawing No- 04. Elevation & Section

Sheet no - 04

Project - Night Shelter Model

Client -

Consultant -
MaRS Planning and Engineering Services PVT. Ltd.

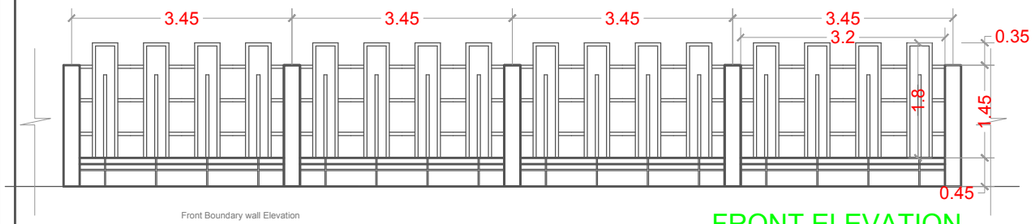
Date : 25-04-2020

Scale : NTS

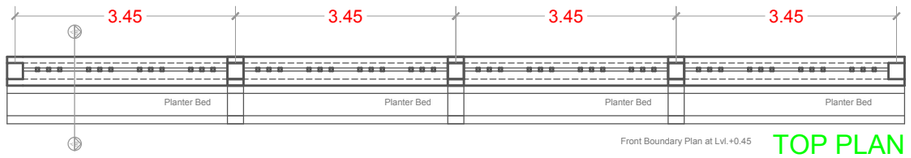
North

Drawn By - Swati Priya

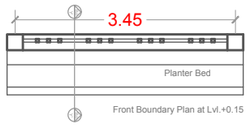
Checked By - Gautam K. Modi

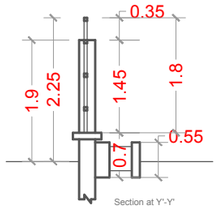


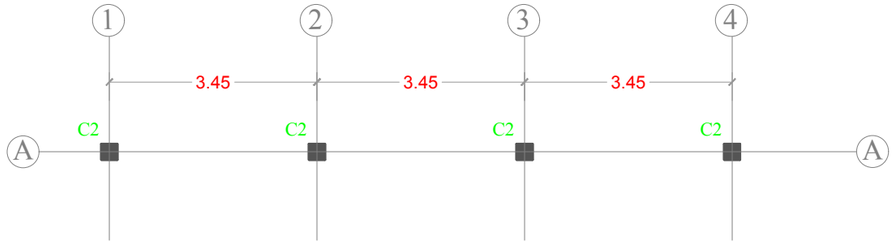
FRONT ELEVATION



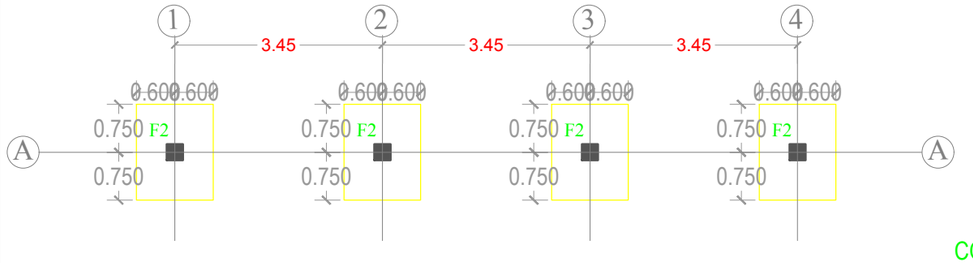
TOP PLAN



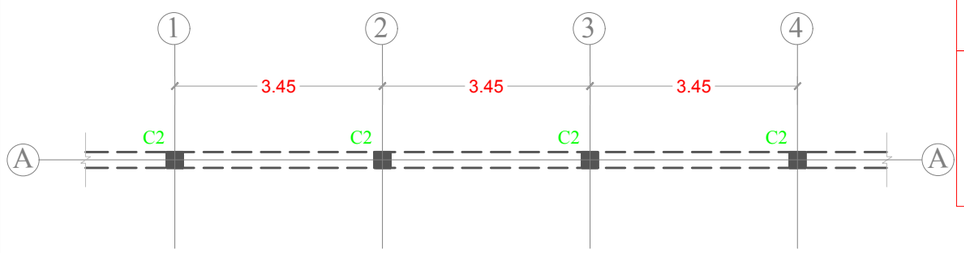




COLUMN LAYOUT PLAN



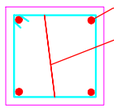
FOUNDATION LAYOUT PLAN

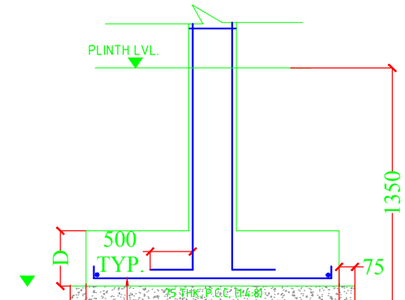


TIE BEAM LAYOUT PLAN

Foundation Type		Type	F2
Foundation Length	(A)	length	1500
Foundation Width	(B)	width	1200
Ped. Length	(b)		
Ped. Depth	(pd)		
Reinforcement for pedestal - 2		dia	
		No.	
Foundation slab depth	(D)		250
Reinforcement along shorter		dia (p)	12
		No. (q)	11
Reinforcement along longer direction		dia (r)	12
		No. (s)	8

COLUMN SCHEDULE
FOR TIES REFER TYPICAL COLUMN ELEVATION

COL.TYPE	
C2	 4-12# TIES 6mm Stirrups @ 0.15M c-c



SECTION 1-1

NOTES

1. Read this drawing along with architectural & structural drawings.
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4. Grade of concrete shall be **M-20** & shall be confirming to IS: 456 - 2000.
5. Reinforcement steel shall be High Strength Deformed TMT bars as per IS: 1786 - 1985 and having a minimum yield strength of **500** N/mm2 and having elongation more than14.5%.
6. Clear cover to main reinforcement shall be 50 mm for footing,40 mm for column, 25 mm for Beam and 20 mm for slab. Side cover of footing shall be 75 mm.
7. Not more than 50% of bars shall be lapped at any section.
8. Lap length shall be equal to Ld = 57 times smaller Dia of bars and shall be avoided in following cases - Top bars - near support, Bottom bars - near mid span.
9. Wherever necessary chairs shall be provided to support the top reinforcement in position.
10. All concrete shall be machine mixed and machine vibrated.
11. Sufficient concrete cube test and steel yield strength test is to be performed for different batches & report shall be submitted to proper authority.
12. Bearing Capacity of the soil is **---T/m² at----m** below Ground level as per soil test report.
13. Foundation has been designed for **(G +2).** structure only.
14. Ld means 57 times of dia of bars.
15. Structure is designed for earthquake zone **III**
16. For any ambiguity,discripancy, deficient provision (if any felt necessary) etc must be brought to the notice of consultant/design office for clarification and work must be carried out after obtaining approval from competent authority.

Schedule of Area

Plot Area = 3003.03 sqm
Ground floor area = 776.44 sqm
First floor area = 735.50 sqm
Total BUA = Total floor area= 1,511.94 sqm

Opening or Door/Window SCHEDULE

S.NO.	TYPE	NAME	SIZE	TOTAL NOs.	REMARKS
1.	D	Door	3.200x2.500	1	Double Shutter wooden door
2.	D1	Door	0.900x2.100	40	Single Shutter wooden door
3.	D2	Door	1.200x2.100	4	Double Shutter wooden door
4.	D3	Door	0.750x2.100	56	Single Shutter pvc door
5.	D4	Door	1.200x2.100	1	Double Shutter wooden door
6.	D5	Door	1.000x2.100	2	Sliding wooden door
7.	D6	Door	1.000x2.100	4	Single Shutter wooden door
8.	W	Window	2.000x1.700	20	Aluminium glazed sliding
9.	W1	Window	1.900x1.700	1	Aluminium glazed sliding
10.	W2	Window	3.100x2.300	2	Aluminium glazed sliding
11.	W3	Window	1.000x1.700	1	Aluminium glazed sliding
12.	W4	Window	1.200x1.700	6	Aluminium glazed sliding
13.	W5	Window	1.800x1.200	55	Aluminium glazed sliding
14.	W6	Window	0.900x1.200	3	Aluminium glazed sliding
15.	W7	Window	1.200x1.700	2	Aluminium glazed sliding
16.	W8	Window	1.800x1.700	1	Aluminium glazed sliding
17.	V	Ventilator	0.600x0.600	44	Aluminium glazed louvered
18.	G1	Fixed Glass	0.600x1.700	10	Aluminium glazed
19.	G2	Glass panel	3.200x2.500	1	Toughened glass
20.	G3	Fixed Glass	1.200x1.700	1	Aluminium glazed

Sheet Title -
Architectural Drawings

Proposed Night Shelter at, Bhagalpur

Drawing No- Boundary wall

Sheet no - 05

Project - Night Shelter Model

Client -

Consultant -
MaRS Planning and Engineering Services PVT. Ltd.

Date : 25-04-2020

Scale : NTS

North

Drawn By - Swati Priya

Checked By - Gautam K. Modi

Figure 16 Front view of the Proposed Night Shelter, Bhagalpur

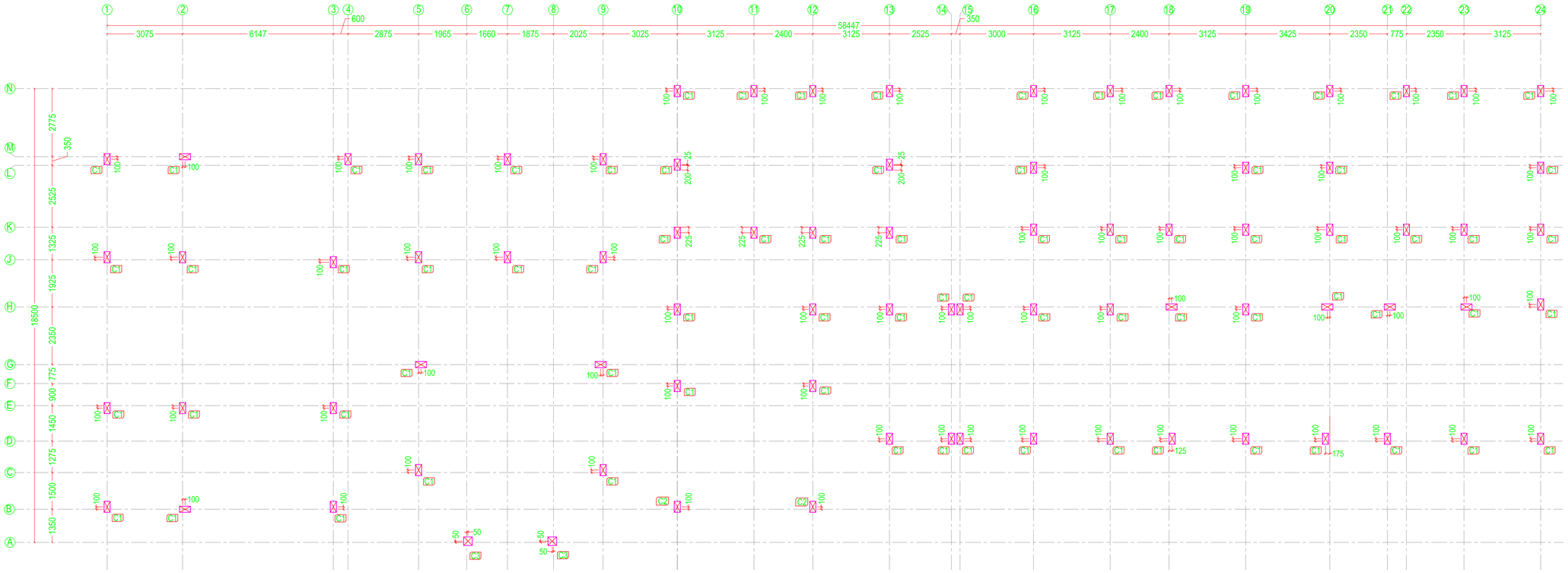
Figure 17 3D rendition of the Proposed Night Shelter, Bhagalpur

Figure 18 3D rendition of the Proposed Night Shelter, Bhagalpur

Figure 19 3D rendition Top view of the Proposed Night Shelter, Bhagalpur

Figure 20 3D rendition Front view of the Proposed Night Shelter, Bhagalpur

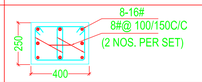
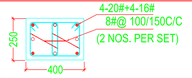
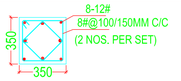
Figure 21 3D rendition Entrance Foyer view of the Proposed Night Shelter, Bhagalpur

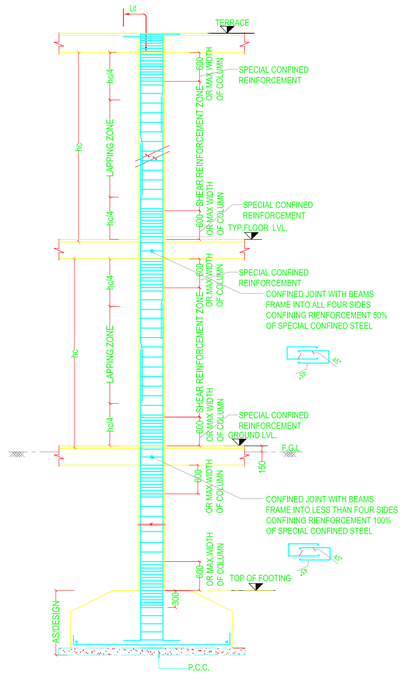


COLUMN LAYOUT PLAN

COLUMN DETAILS

FOR COLUMN TIES REFER TYPICAL
COLUMNE LEVATION DUCTILE DETAIL

COL. TYPE	COLUMN REINFORCEMENT
C1	
C2	
C3	



TYPICAL COLUMN ELEVATION
DUCTILE DETAIL

NOTES

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6. Clear cover to main reinforcement shall be 50 mm for footing,40 mm for column, 25 mm for Beam and 20 mm for slab. Side cover of footing shall be 75 mm.
7. Not more than 50% of bars shall be lapped at any section.
8. Lap length shall be equal to Ld = 57 times smaller Dia of bars and shall be avoided in following cases - Top bars - near support, Bottom bars - near mid span.
9. Wherever necessary chairs shall be provided to support the top reinforcement in position.
10. All concrete shall be machine mixed and machine vibrated.
11. Sufficient concrete cube test and steel yield strength test is to be performed for different batches & report shall be submitted to proper authority.
12. Bearing Capacity of the soil is **6T/m² at----m** below Ground level as per soil test report.
13. Foundation has been designed for **(G +2).** structure only.
14. Ld means 57 times of dia of bars.
15. Structure is designed for earthquake zone **IV**
16. For any ambiguity,discripancy, deficient provision (if any felt necessary) etc must be brought to the notice of consultant/design office for clarification and work must be carried out after obtaining approval from competent authority.

PROPOSED NIGHT SHELTER

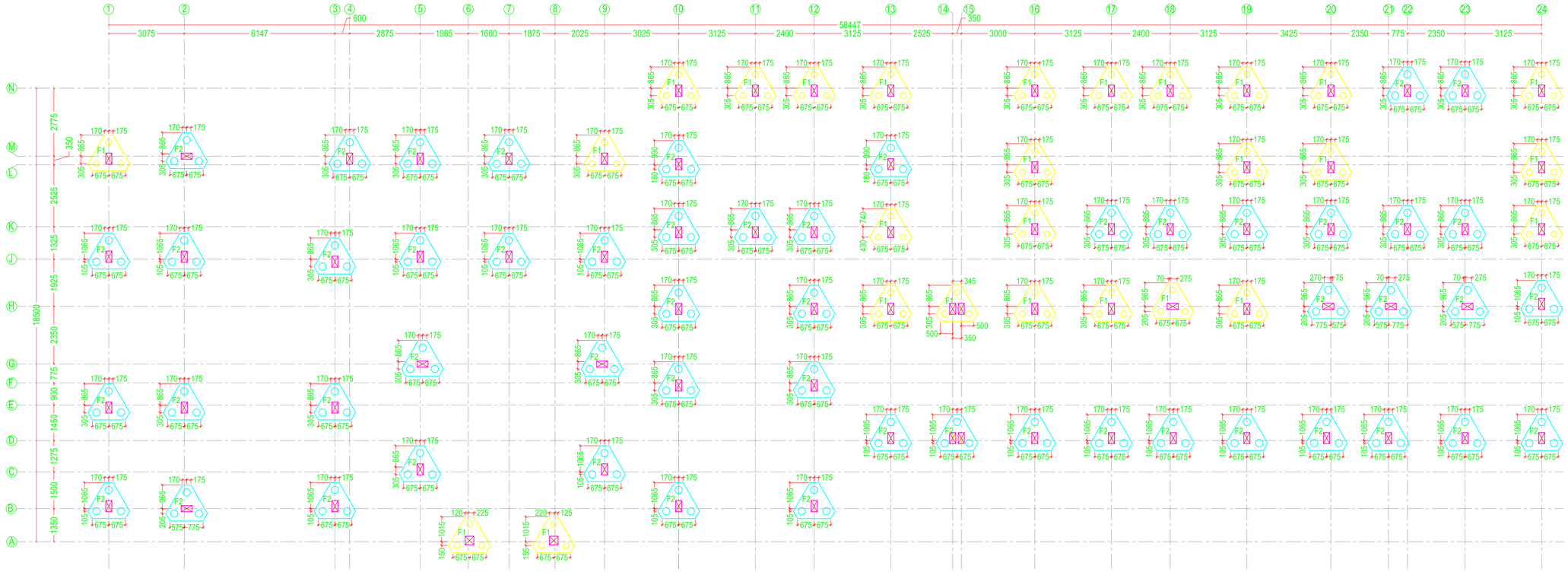
DRAWING TITLE
COLUMN LAYOUT& REINF.DETAIL

S-01	DRN.		SCALE: N.T.S
	DLT.		DATE: 07/ 05/ 2020
	APPD.	XIRAN CHHETRI	

Consultant -
MARS Planning and Engineering Services PVT Ltd

STRUCTURAL ENGINEER :
Er. Kiran Chhetri
BE Civil , M.TECH Structure Design
ph.no
7209956890

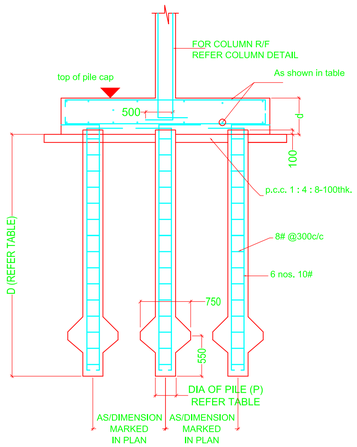
DRAWN BY:
NASIM



PILE FOUNDATION LAYOUT PLAN

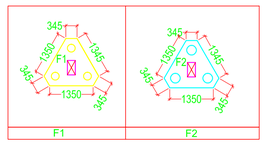
SCHEDULE OF PILE CAPS

PILE CAP MKD.	DIA OF PILE (DIA P)	DEPTH OF PILE(D)	NO. OF PILES	DEPTH OF PILE CAP(d)	PILE CAP BOTTOM REINF. DETAILS		PILE CAP TOP REINF. DETAILS	
					ALONG LONGER DIRECTION	ALONG SHORTER DIRECTION	ALONG LONGER DIRECTION	ALONG SHORTER DIRECTION
F1	250	7M	3	750	12 # 125 C/C	12 # 125 C/C	12 # 150 C/C	12 # 150 C/C
F2	300	7M	3	750	12 # 125 C/C	12 # 125 C/C	12 # 150 C/C	12 # 150 C/C

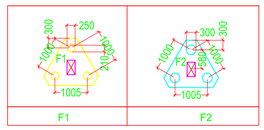


TYP DETAILS OF PILE

PILE DIA DIMENSION



PILE CAP DIMENSIONS



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PROPOSED NIGHT SHELTER

DRAWING TITLE

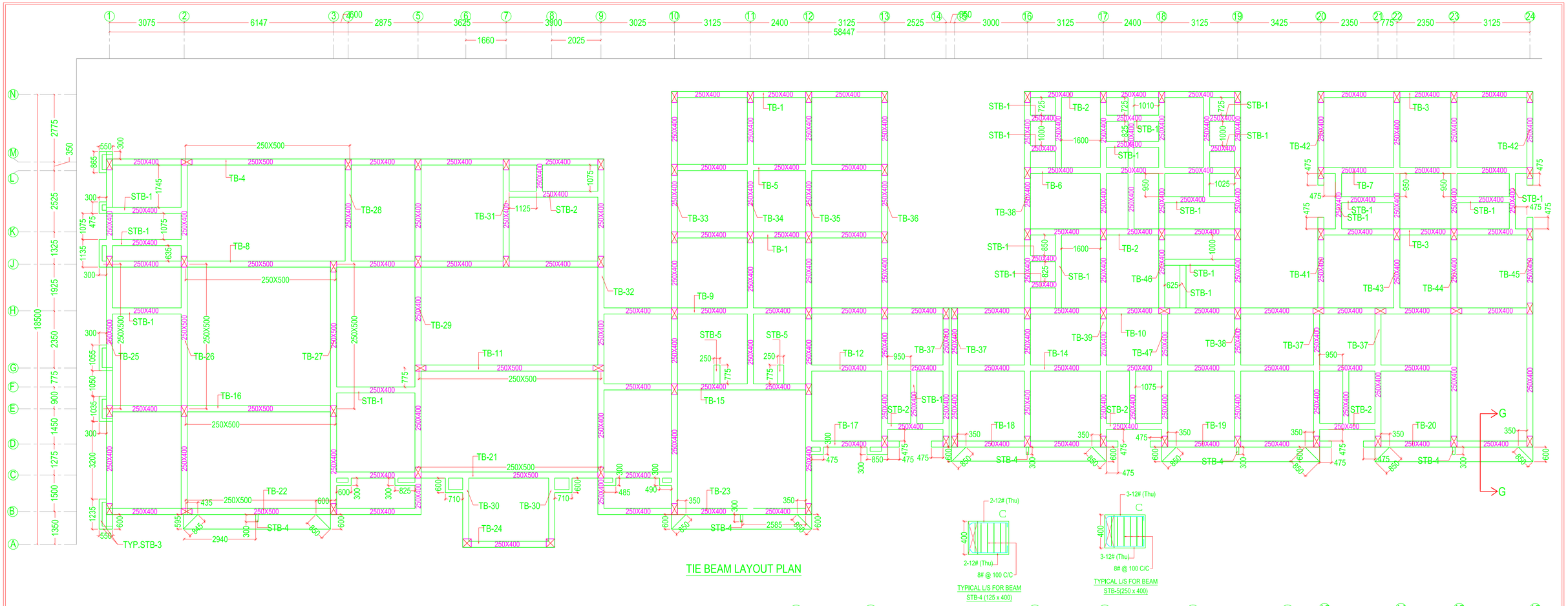
PILE FOUNDATION LAYOUT& REINF.DETAIL

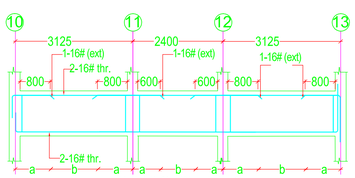
S-02	DRN.		SCALE N.T.S
	DLT.		
	APPD.	KIRAN CHHETRI	DATE 07/ 05/ 2020

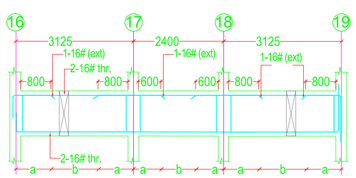
Consultant -
MARS Planning and Engineering Services PVT Ltd

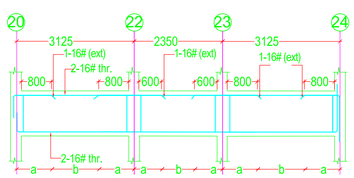
STRUCTURAL ENGINEER :
Er. Kiran Chhetri
BE Civil , M.TECH Structure Design
ph.no
7209956890

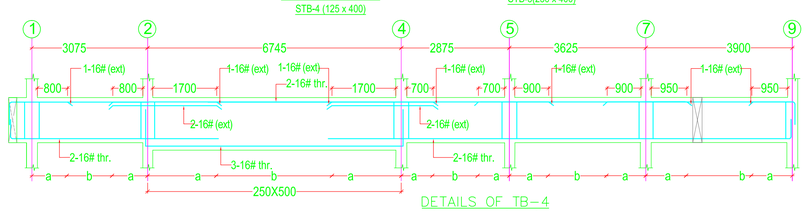
DRAWN BY:
NASIM

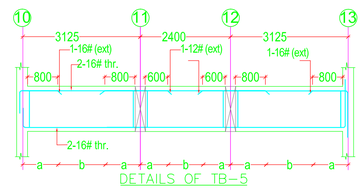


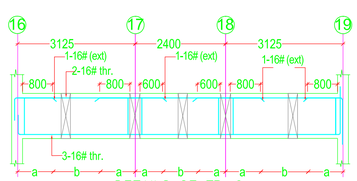


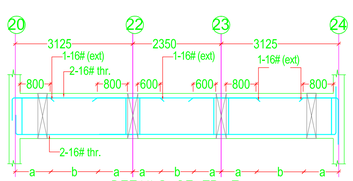


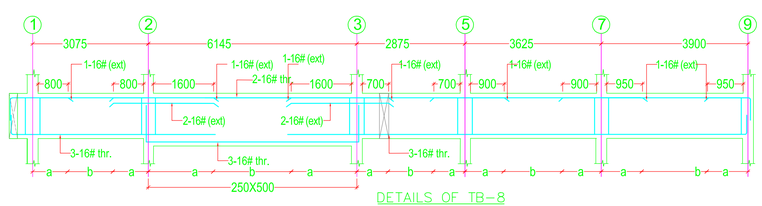


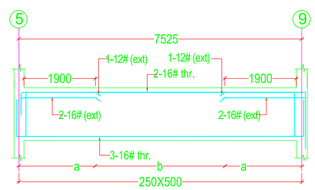


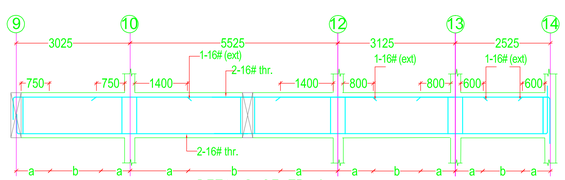


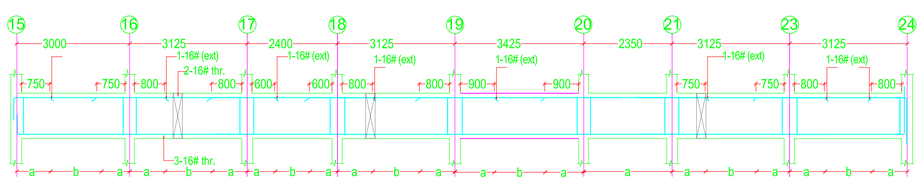


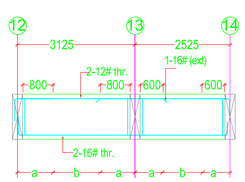


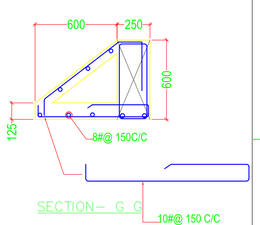












PROPOSED NIGHT SHELTER

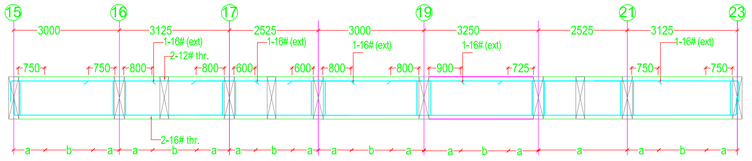
DRAWING TITLE
TIE BEAM LAYOUT REINF.DETAIL

S-03	DRN.		SCALE N.T.S
	DLT.		
	APPD.	KIRAN CHHETRI	DATE 07/ 05/ 2020

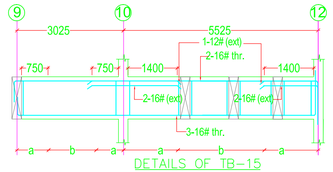
Consultant -
MARS Planning and Engineering Services PVT Ltd

STRUCTURAL ENGINEER :
Er. Kiran Chhetri
BE Civil , M.TECH Structure Design
ph.no
7209956890

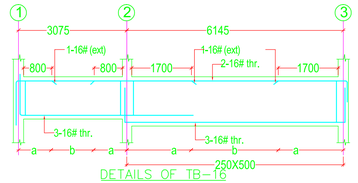
DRAWN BY:
NASIM



DETAILS OF TB-14
(250x400)



DETAILS OF TB-15
(250x400)



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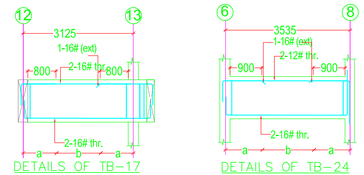
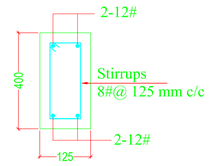
(250x400/500)

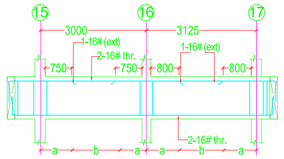


DETAILS OF TB-17
(250x400)

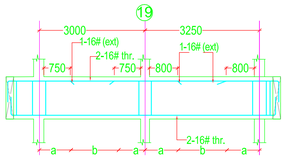
DETAILS OF TB-24
(250x400)



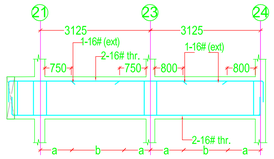
TYPICAL
DETAILS OF STB-1



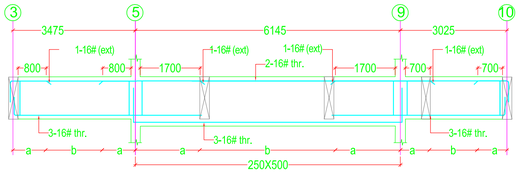
DET8AILS OF TB-18
(250x400)



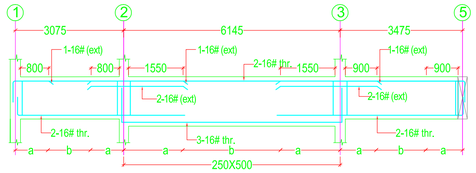
DETAILS OF TB-19
(250x400)



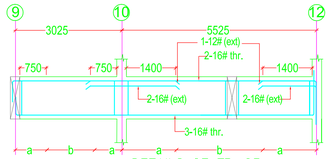
DET8AILS OF TB-20
(250x400)



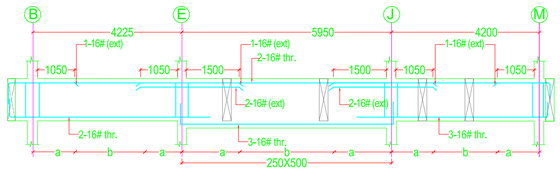
DETAILS OF TB-21
(250x400/500)



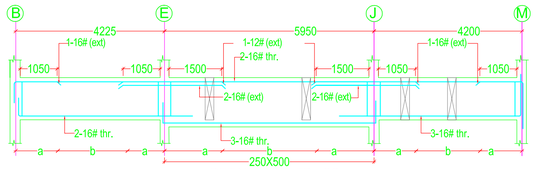
DETAILS OF TB-22
(250x400/500)



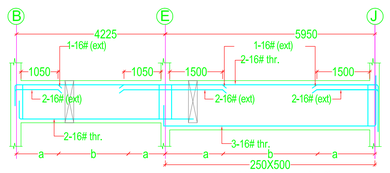
DETAILS OF TB-23
(250x400)



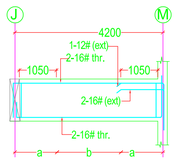
DETAILS OF TB-25
(250x400/500)



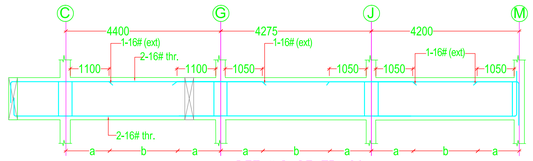
DETAILS OF TB-26
(250x400/500)



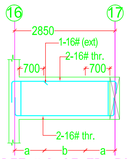
DETAILS OF TB-27
(250x400/500)



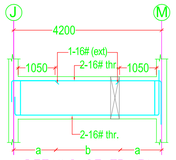
DETAILS OF TB-28
(250x400)



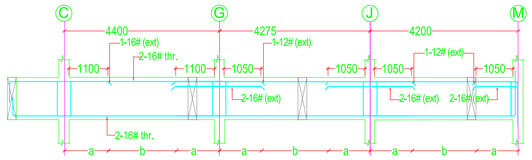
DETAILS OF TB-29
(250x400)



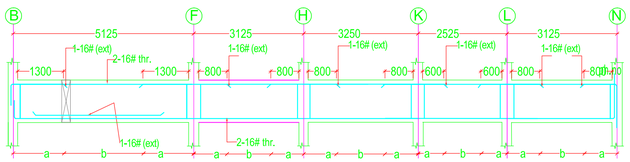
DETAILS OF TB-30
(250x400)



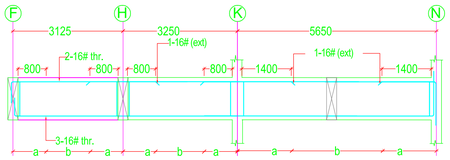
DETAILS OF TB-31
(250x400)



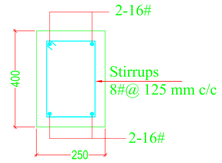
DETAILS OF TB-32
(250x400)



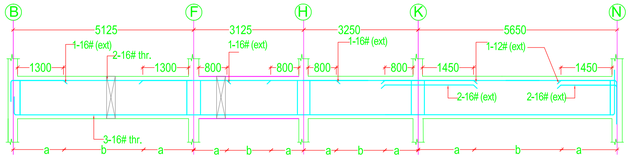
DETAILS OF TB-33
(250x400)



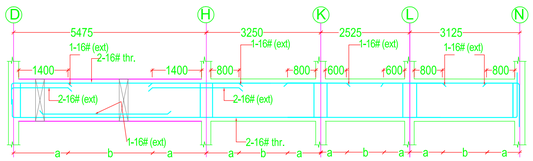
DETAILS OF TB-34
(250x400)



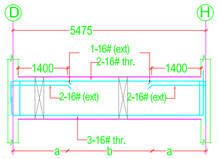
DETAILS OF STB-2



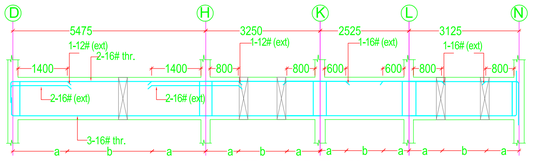
DETAILS OF TB-35
(250x400)



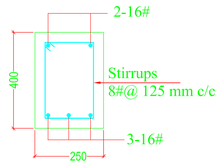
DETAILS OF TB-36
(250x400)



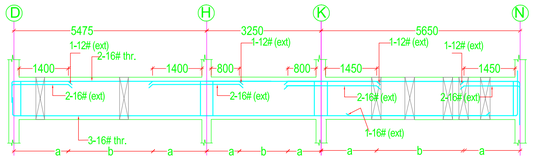
DETAILS OF TB-37
(250x400)



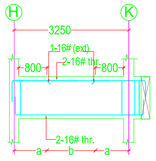
DETAILS OF TB-38
(250x400)



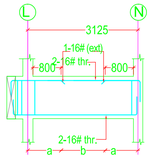
DETAILS OF STB-2



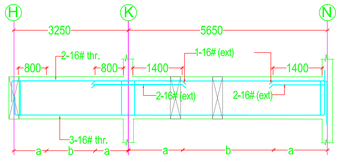
DETAILS OF TB-39
(250x400)



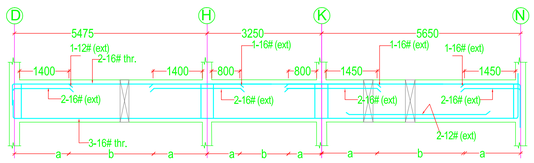
DETAILS OF TB-41
(250x400)



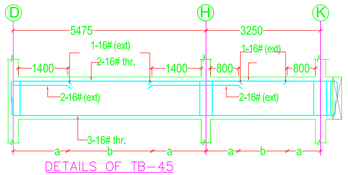
DETAILS OF TB-42
(250x400)



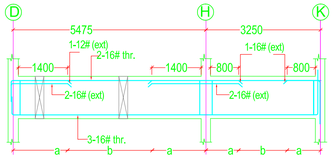
DETAILS OF TB-43
(250x400)



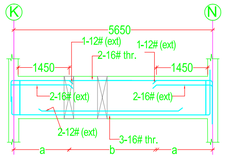
DETAILS OF TB-44
(250x400)



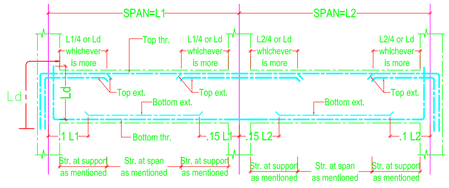
DETAILS OF TB-45
(250x400)



DETAILS OF TB-46
(250x400)



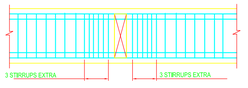
DETAILS OF TB47
(250x400)



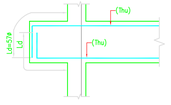
TYPICAL SECTION OF BEAM
(SHOWING CURTAILMENT OF BARS)

STIRRUPS DETAIL

a - 10# - 2- LEGGED STIRRUPS @ 100 MM C/C
b - 10# - 2- LEGGED STIRRUPS @ 150 MM C/C



TYP.DETAIL SHOWING PRIMARY AND SECONDARY BEAM JUNCTION WITH BOTH SIDE RING @ 100 C/C MIN. 3 NOS.EITHER SIDE



TYPICAL LAPPING DETAIL AT CANTILEVER END

PROPOSED NIGHT SHELTER

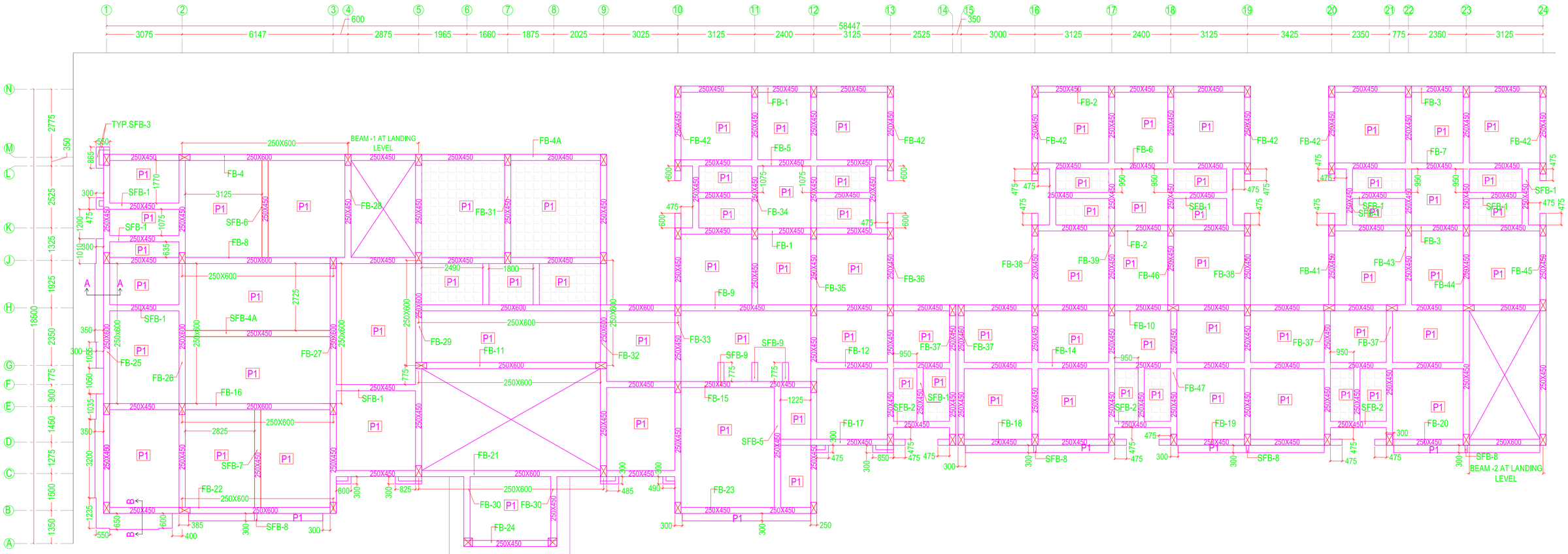
DRAWING TITLE
TIE BEAM REINF. DETAIL

S-04	DRN.		SCALE N.T.S
	DLT.		DATE
	APPD.	KIRAN CHHETRI	07/ 05/ 2020

Consultant -
MARS Planning and Engineering Services PVT Ltd

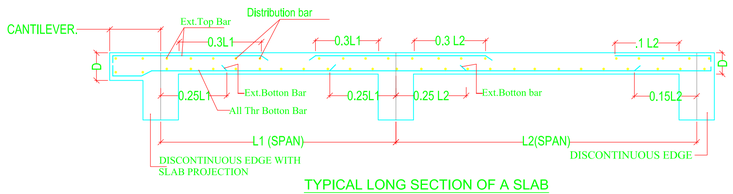
STRUCTURAL ENGINEER :
Er. Kiran Chhetri
BE Civil , M.TECH Structure Design
7209956890

DRAWN BY:
NASIM

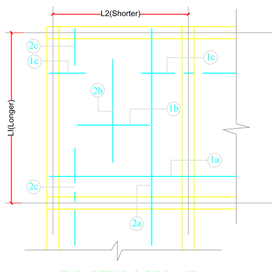


1ST FLOOR BEAM & SLAB LAYOUT PLAN

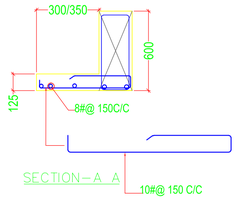
DOWN SLAB



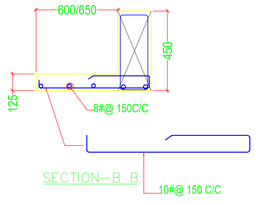
TYPICAL LONG SECTION OF A SLAB



TYP. DETAILS OF PANEL



SECTION–A A



SECTION–B B

PANEL DETAILS

PANEL	THICK. IN MM	REINFORCEMENT DETAILS ALONG SHORTER DIRECTION									REINFORCEMENT DETAILS ALONG LONGER DIRECTION								
		ALTHROUGH BOTTOM R/F ALONG SHORTER DIRECTION			EXTRA BOTTOM R/F ALONG SHORTER DIRECTION			TOP R/F ALONG SHORTER DIRECTION			ALTHROUGH BOTTOM R/F ALONG LONGER DIRECTION			EXTRA BOTTOM R/F ALONG LONGER DIRECTION			TOP R/F ALONG LONGER DIRECTION		
		MARK	DIA#	SPACING C/C	MARK	DIA#	SPACING C/C	MARK	DIA#	SPACING C/C	MARK	DIA#	SPACING C/C	MARK	DIA#	SPACING C/C	MARK	DIA#	SPACING C/C
P1	125	1a	10 #	250 C/C	1b	10 #	250 C/C	1c	10 #	125 C/C	2a	10 #	300 C/C	2b	10 #	300 C/C	2c	10 #	150 C/C

NOTE: DISTRIBUTION BAR 8mm @200 C/C SHALL BE PROVIDED WHEREVER NEEDED.

PROPOSED NIGHT SHELTER

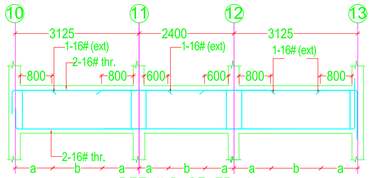
DRAWING TITLE
1ST FLOOR BEAM LAYOUT PLAN

S-05	DRN.		SCALE N.T.S
	DLT.		DATE 07/ 05/ 2020
	APPD.	KIRAN CHHETRI	

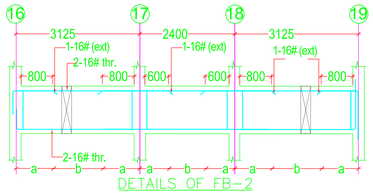
Consultant -
MARS Planning and Engineering Services PVT Ltd

STRUCTURAL ENGINEER :-
Er. Kiran Chhetri
BE Civil , M.TECH Structure Design
ph.no.
7209956890

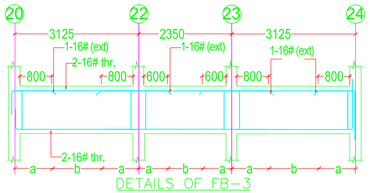
DRAWN BY:
NASIM



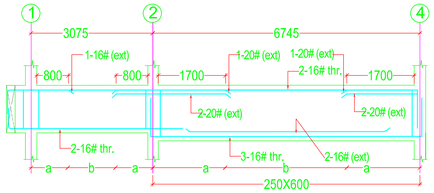
DETAILS OF FB-1
(250x450)



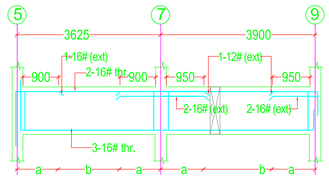
DETAILS OF FB-2
(250x450)



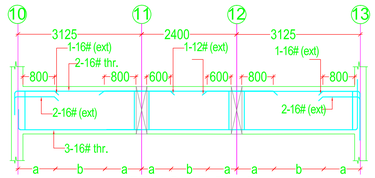
DETAILS OF FB-3
(250x450)



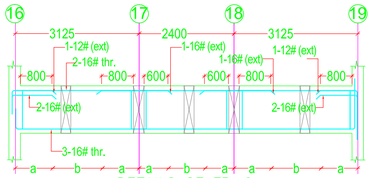
DETAILS OF FB-4
(250x450/600)



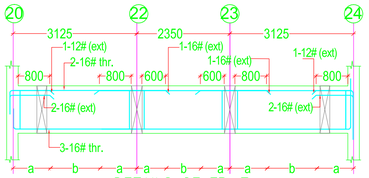
DETAILS OF FB-4A
(250x450/600)



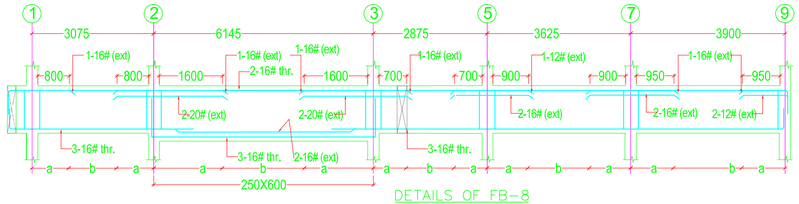
DETAILS OF FB-5
(250x450)



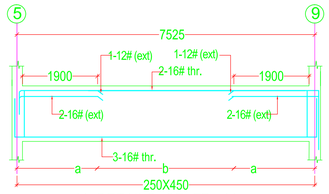
DETAILS OF FB-6
(250x450)



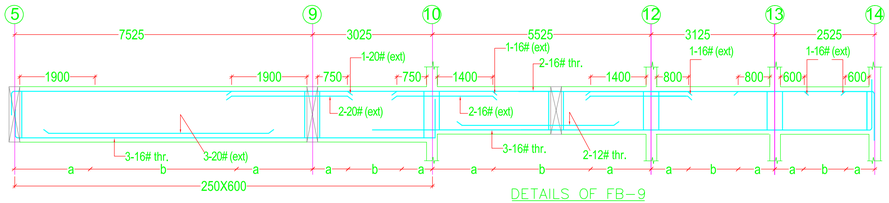
DETAILS OF FB-7
(250x450)



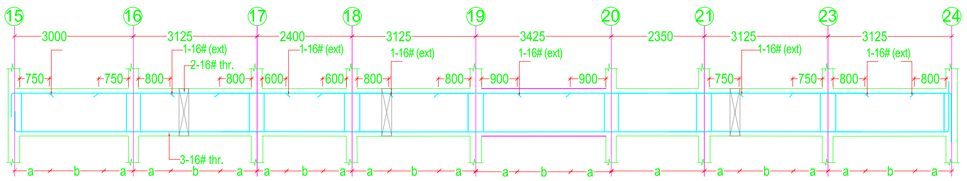
DETAILS OF FB-8
(250x450/600)



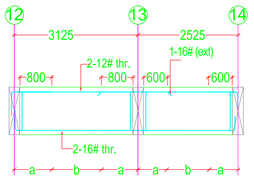
M DETAILS OF FB-11
(250x450)



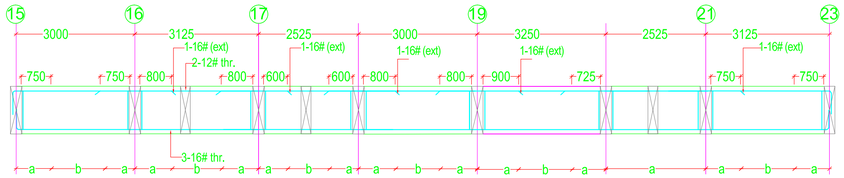
DETAILS OF FB-9
(250x450/600)



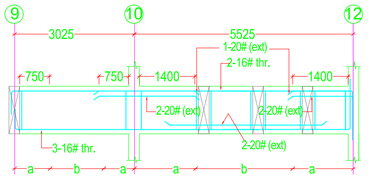
DETAILS OF FB-10
(250x450)



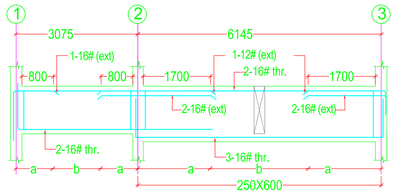
DETAILS OF FB-12
(250x450)



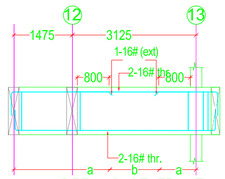
DETAILS OF FB-14
(250x450)



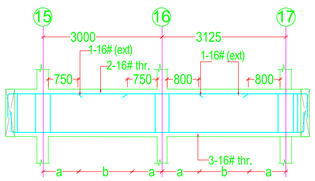
DETAILS OF FB-15
(250x450)



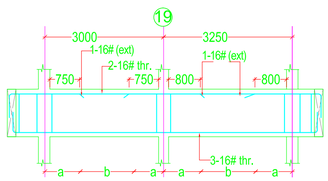
DETAILS OF FB-16
(250x450/600)



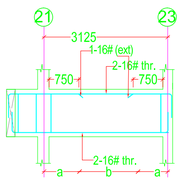
DETAILS OF FB-17
(250x450)



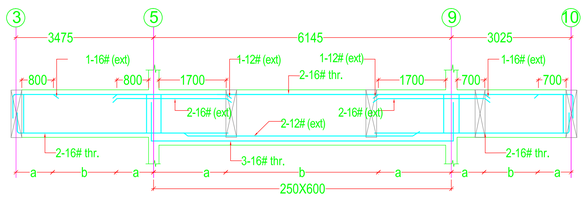
DET8AILS OF FB-18
(250x450)



DETAILS OF FB-19
(250x450)



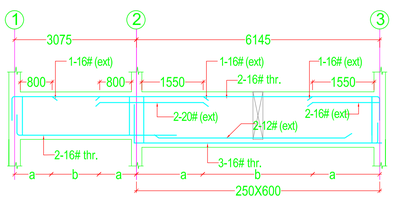
DET8AILS OF FB-20
(250x450)



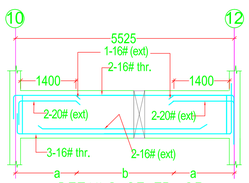
DETAILS OF FB-21
(250x450/600)

STIRRUPS DETAIL

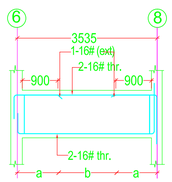
a - 10# - 2- LEGGED STIRRUPS @ 100 MM C/C
b - 10# - 2- LEGGED STIRRUPS @ 150 MM C/C



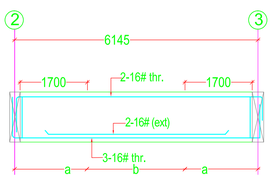
DETAILS OF FB-22
(250x450/600)



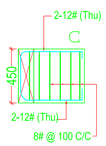
DETAILS OF FB-23
(250x450)



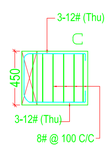
DETAILS OF FB-24
(250x450)



DETAILS OF SFB-4A
(250x450)



TYPICAL L/S FOR BEAM
SFB-8 (125 x 450)



TYPICAL L/S FOR BEAM
SFB-9(250 x 450)

PROPOSED NIGHT SHELTER

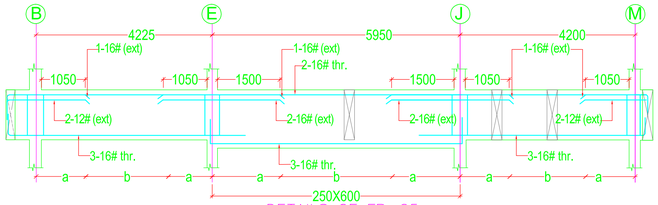
DRAWING TITLE
1ST FLOOR BEAM LAYOUT PLAN

S-06	DRN.		SCALE N.T.S
	DLT.		DATE 07/ 05/ 2020
	APPD.	XIRAN CHHETRI	

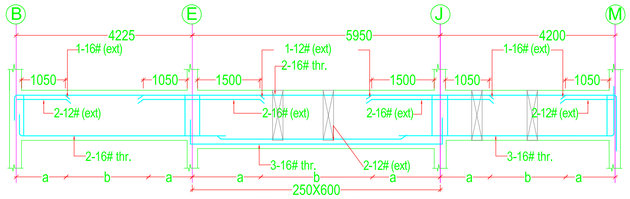
Consultant -
MARS Planning and Engineering Services PVT Ltd

STRUCTURAL ENGINEER :
Er. Kiran Chhetri
BE Civil , M.TECH Structure Design
ph.no
7209956890

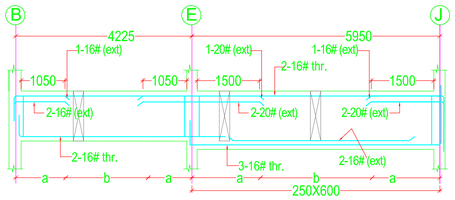
DRAWN BY:
NASIM



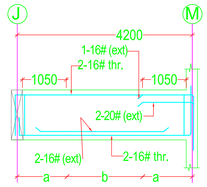
DETAILS OF FB-25
(250x450/600)



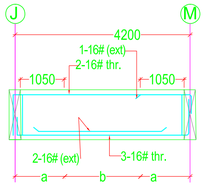
DETAILS OF FB-26
(250x450/600)



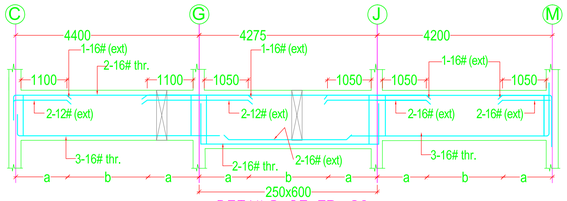
DETAILS OF FB-27
(250x450/600)



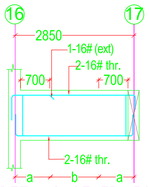
DETAILS OF FB-28
(250x450)



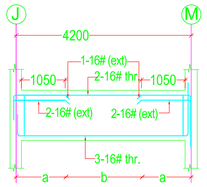
DETAILS OF SFB-6
(250x450)



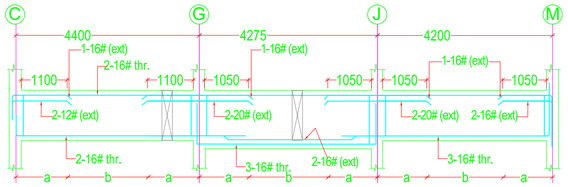
DETAILS OF FB-29
(250x450/600)



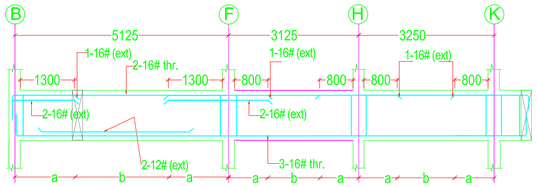
DETAILS OF FB-30
(250x450)



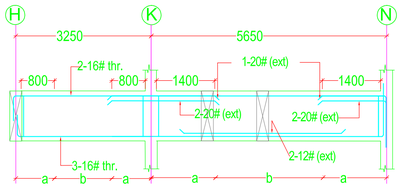
DETAILS OF FB-31
(250x450)



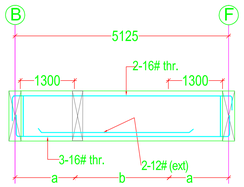
DETAILS OF FB-32
(250x450/600)



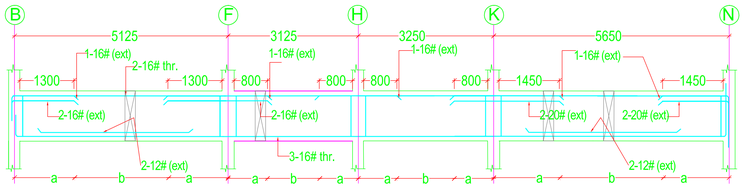
DETAILS OF FB-33
(250x450)



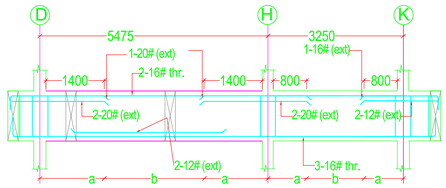
DETAILS OF FB-34
(250x450)



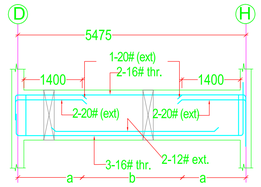
DETAILS OF SFB-5
(250x450)



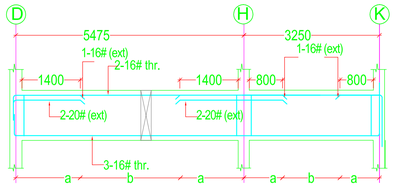
DETAILS OF FB-35
(250x450)



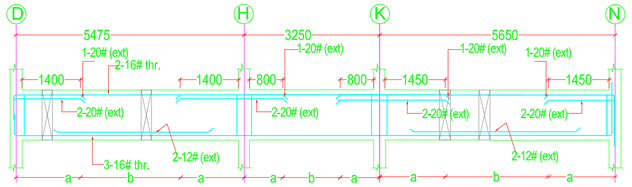
DETAILS OF FB-36
(250x450)



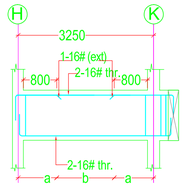
DETAILS OF FB-37
(250x450)



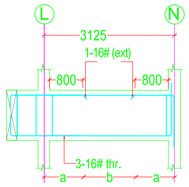
DETAILS OF FB-38
(250x450)



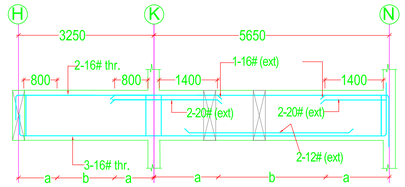
DETAILS OF FB-39
(250x450)



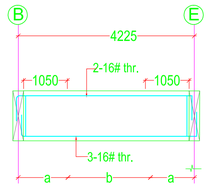
DETAILS OF FB-41
(250x450)



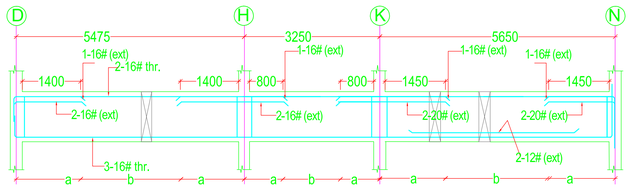
DETAILS OF FB-42
(250x450)



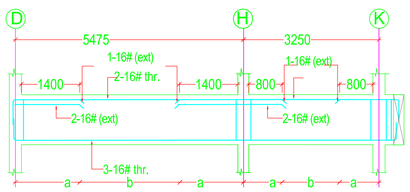
DETAILS OF FB-43
(250x450)



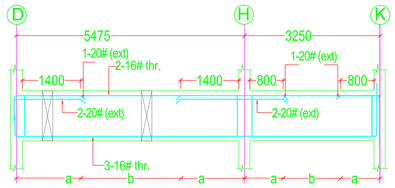
DETAILS OF SFB-7
(250x450)



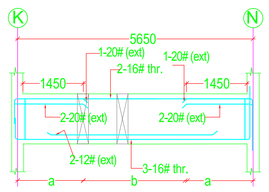
DETAILS OF FB-44
(250x450)



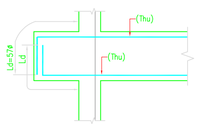
DETAILS OF FB-45
(250x450)



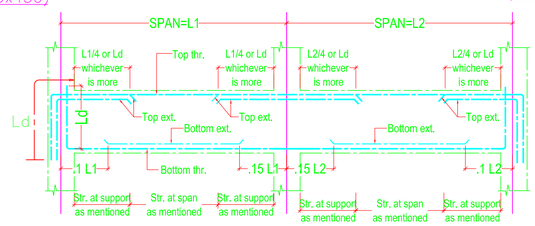
DETAILS OF TB-46
(250x400)



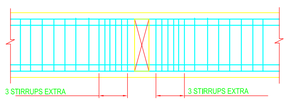
DETAILS OF TB47
(250x400)



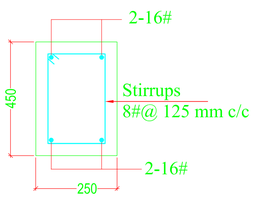
TYPICAL LAPPING DETAIL AT CANTILEVER END



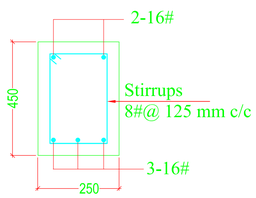
TYPICAL SECTION OF BEAM
(SHOWING CURTAILMENT OF BARS)



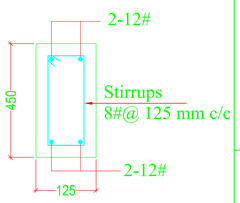
TYP.DETAIL SHOWING PRIMARY AND SECONDARY BEAM JUNCTION WITH BOTH SIDE RING @ 100 C/C MIN. 3 NOS.EITHER SIDE



DETAILS OF SFB-2



DETAILS OF SFB-2



TYPICAL
DETAILS OF SFB-1

PROPOSED NIGHT SHELTER

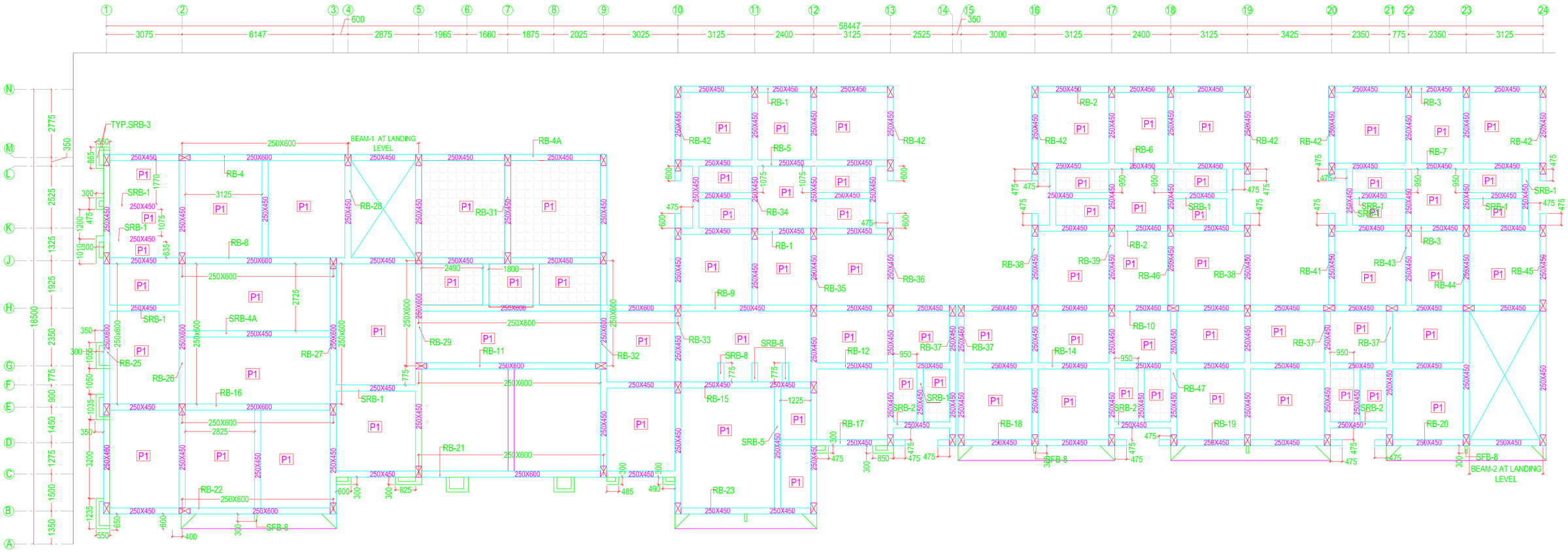
DRAWING TITLE
1ST FLOOR BEAM LAYOUT PLAN

S-07	DRN.		SCALE N.T.S
	DLT.		DATE 07/ 05/ 2020
	APPD.	KIRAN CHHETRI	

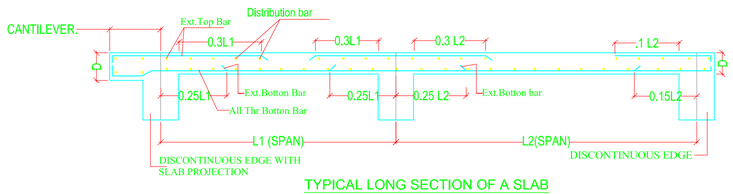
Consultant -
MARS Planning and Engineering Services PVT Ltd

STRUCTURAL ENGINEER :
Er. Kiran Chhetri
BE Civil , M.TECH Structure Design
ph.no
7209956890

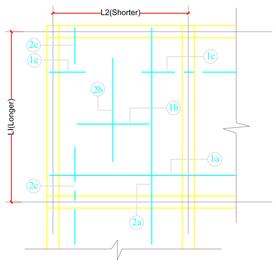
DRAWN BY:
NASIM



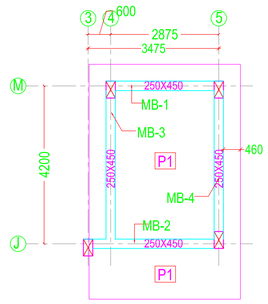
1ST FLOOR BEAM & SLAB LAYOUT PLAN



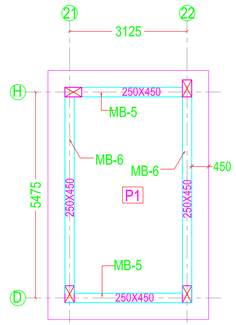
TYPICAL LONG SECTION OF A SLAB



TYP. DETAILS OF PANEL



MUMTY -1 BEAM & SLAB LAYOUT PLAN



MUMTY -2 BEAM & SLAB LAYOUT PLAN

DOWN SLAB

PANEL DETAILS

PANEL	THICK. IN MM	REINFORCEMENT DETAILS ALONG SHORTER DIRECTION									REINFORCEMENT DETAILS ALONG LONGER DIRECTION								
		ALTHROUGH BOTTOM R/F ALONG SHORTER DIRECTION			EXTRA BOTTOM R/F ALONG SHORTER DIRECTION			TOP R/F ALONG SHORTER DIRECTION			ALTHROUGH BOTTOM R/F ALONG LONGER DIRECTION			EXTRA BOTTOM R/F ALONG LONGER DIRECTION			TOP R/F ALONG LONGER DIRECTION		
		MARK	DIA#	SPACING C/C	MARK	DIA#	SPACING C/C	MARK	DIA#	SPACING C/C	MARK	DIA#	SPACING C/C	MARK	DIA#	SPACING C/C	MARK	DIA#	SPACING C/C
P1	125	1a	10 #	250 C/C	1b	10 #	250 C/C	1c	10 #	125 C/C	2a	10 #	300 C/C	2b	10 #	300 C/C	2c	10 #	150 C/C

NOTE: DISTRIBUTION BAR 8mm @200 C/C SHALL BE PROVIDED WHEREVER NEEDED.

PROPOSED NIGHT SHELTER

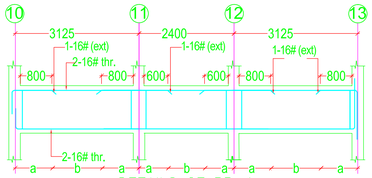
DRAWING TITLE
TERRACE FLOOR BEAM LAYOUT PLAN

S-08	DRN.		SCALE N.T.S
	DLT.		DATE 07/ 05/ 2020
	APPD.	KIRAN CHHETRI	

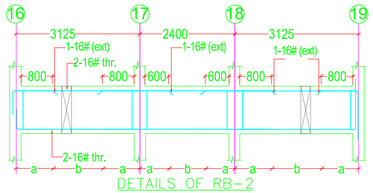
Consultant -
MARS Planning and Engineering Services PVT Ltd

STRUCTURAL ENGINEER :
Er. Kiran Chhetri
BE Civil , M.TECH Structure Design
ph.no
7209956890

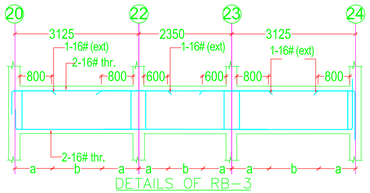
DRAWN BY:
NASIM



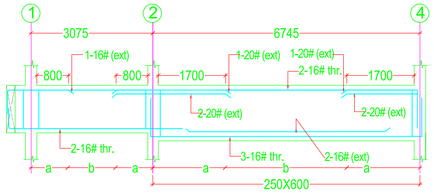
DETAILS OF RB-1
(250x450)



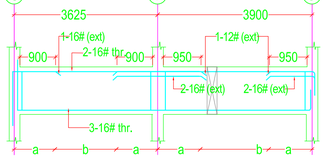
DETAILS OF RB-2
(250x450)



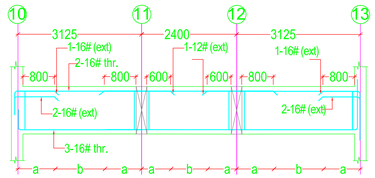
DETAILS OF RB-3
(250x450)



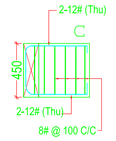
DETAILS OF RB-4
(250x450/600)



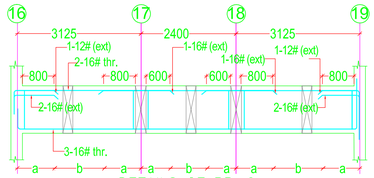
DETAILS OF RB-4A
(250x450/600)



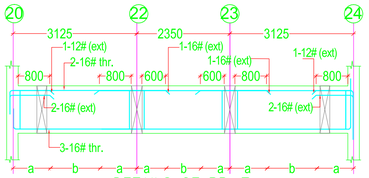
DETAILS OF RB-5
(250x450)



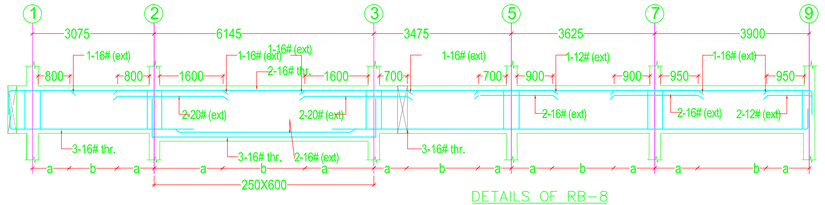
TYPICAL L/S FOR BEAM
SRB-8 (125 x 450)



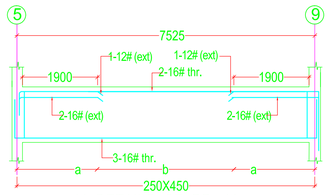
DETAILS OF RB-6
(250x450)



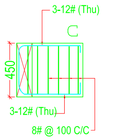
DETAILS OF RB-7
(250x450)



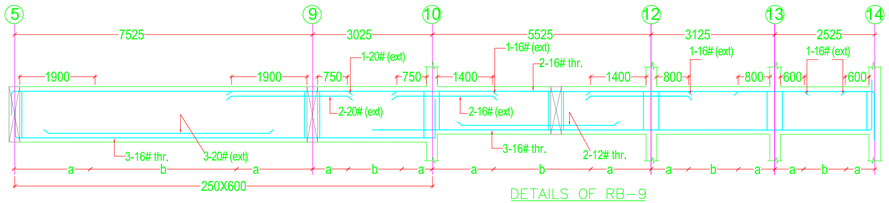
DETAILS OF RB-8
(250x450/600)



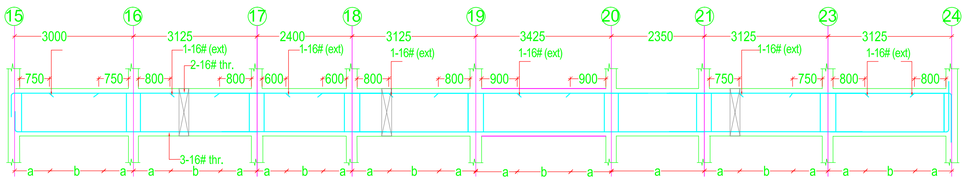
M DETAILS OF RB-11
(250x450)



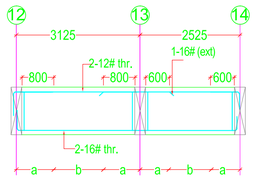
TYPICAL L/S FOR BEAM
SRB-9(250 x 450)



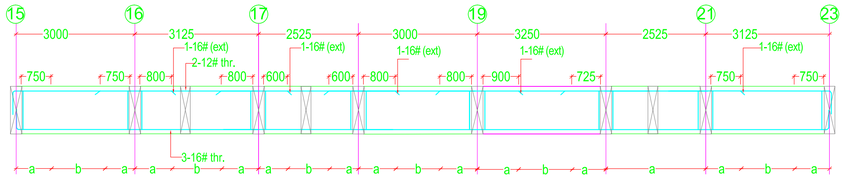
DETAILS OF RB-9
(250x450/600)



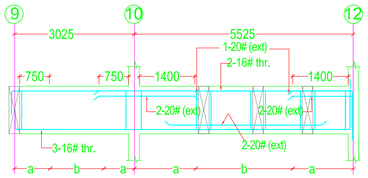
DETAILS OF RB-10
(250x450)



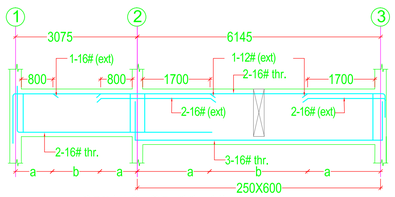
DETAILS OF RB-12
(250x450)



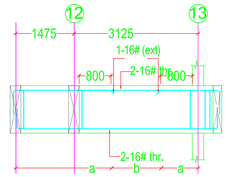
DETAILS OF RB-14
(250x450)



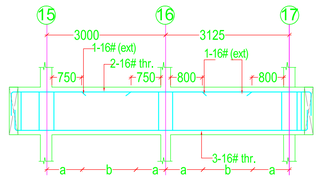
DETAILS OF RB-15
(250x450)



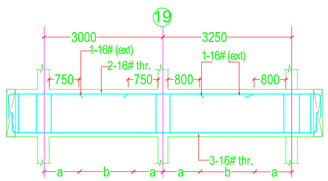
DETAILS OF RB-16
(250x450/600)



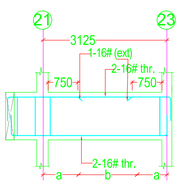
DETAILS OF RB-17
(250x450)



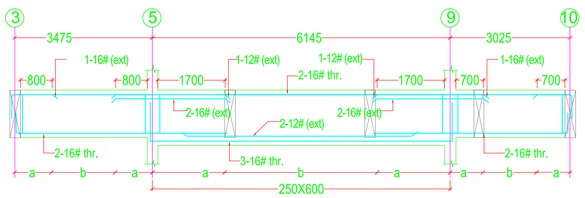
DETAILS OF RB-18
(250x450)



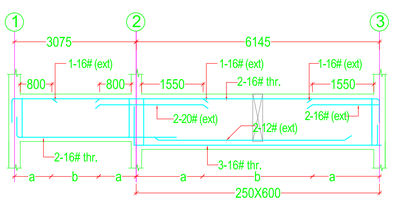
DETAILS OF RB-19
(250x450)



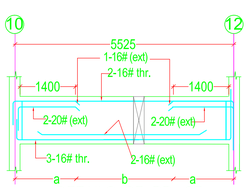
DETAILS OF RB-20
(250x450)



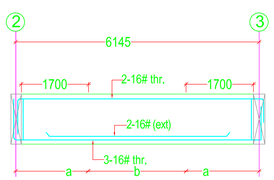
DETAILS OF RB-21
(250x450/600)



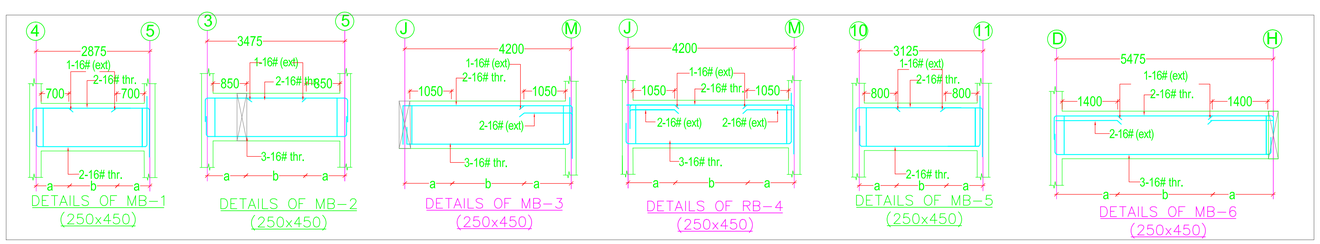
DETAILS OF RB-22
(250x450/600)



DETAILS OF RB-23
(250x450)



DETAILS OF SRB-4A
(250x450)



DETAILS OF MB-1
(250x450)

DETAILS OF MB-2
(250x450)

DETAILS OF MB-3
(250x450)

DETAILS OF RB-4
(250x450)

DETAILS OF MB-5
(250x450)

DETAILS OF MB-6
(250x450)

STIRRUPS DETAIL

a - 10# - 2- LEGGED STIRRUPS @ 100 MM C/C
b - 10# - 2- LEGGED STIRRUPS @ 150 MM C/C

PROPOSED NIGHT SHELTER

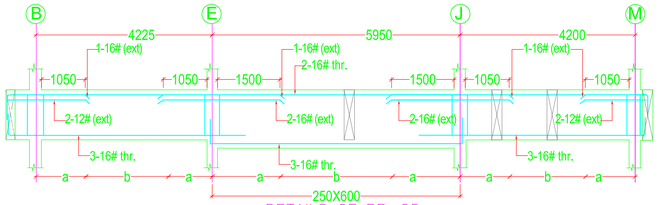
DRAWING TITLE
TERRACE FLOOR BEAM LAYOUT PLAN

S-09	DRN.		SCALE N.T.S
	DLT.		DATE 07/ 05/ 2020
	APPD.	KIRAN CHHETRI	

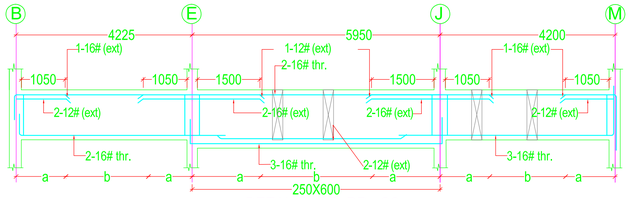
Consultant -
MARS Planning and Engineering Services PVT Ltd

STRUCTURAL ENGINEER :
Er. Kiran Chhetri
BE Civil , M.TECH Structure Design
ph.no
7209956890

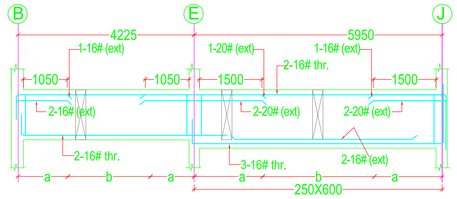
DRAWN BY:
NASIM



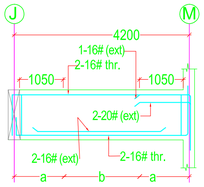
DETAILS OF RB-25
(250x450/600)



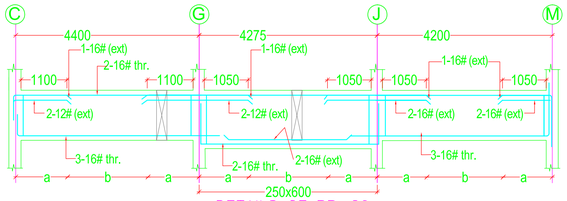
DETAILS OF RB-26
(250x450/600)



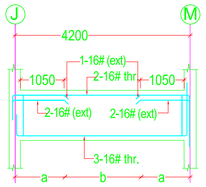
DETAILS OF RB-27
(250x450/600)



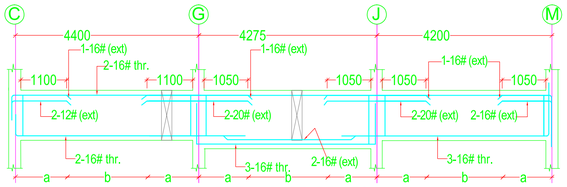
DETAILS OF RB-28
(250x450)



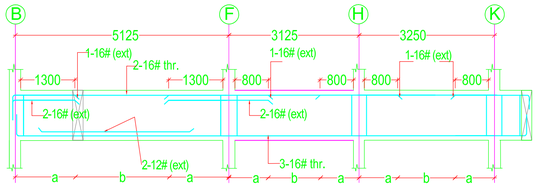
DETAILS OF RB-29
(250x450/600)



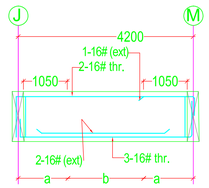
DETAILS OF RB-31
(250x450)



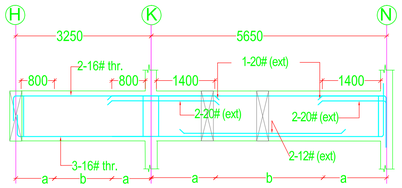
DETAILS OF RB-32
(250x450/600)



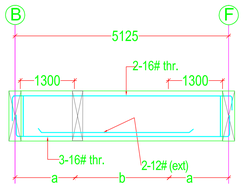
DETAILS OF RB-33
(250x450)



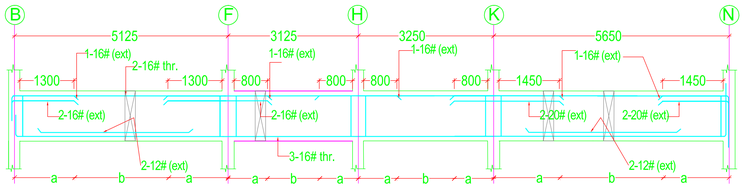
DETAILS OF SRB-6
(250x450)



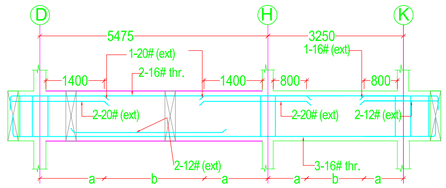
DETAILS OF RB-34
(250x450)



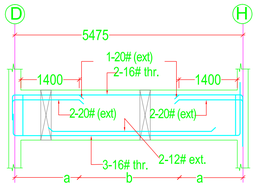
DETAILS OF SRB-5
(250x450)



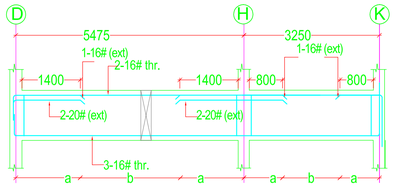
DETAILS OF RB-35
(250x450)



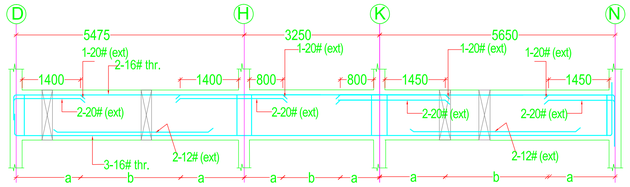
DETAILS OF RB-36
(250x450)



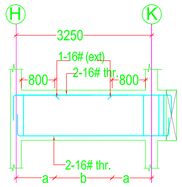
DETAILS OF RB-37
(250x450)



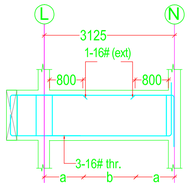
DETAILS OF RB-38
(250x450)



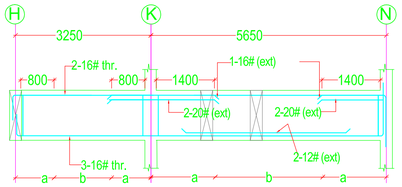
DETAILS OF RB-39
(250x450)



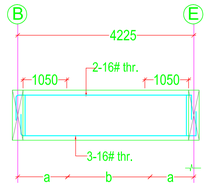
DETAILS OF RB-41
(250x450)



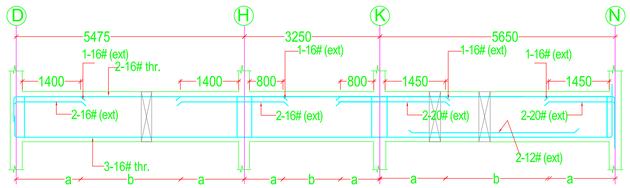
DETAILS OF RB-42
(250x450)



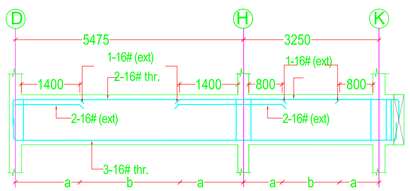
DETAILS OF RB-43
(250x450)



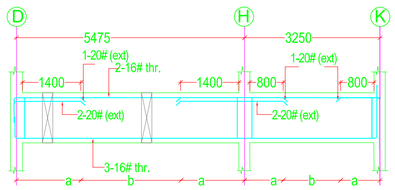
DETAILS OF SRB-7
(250x450)



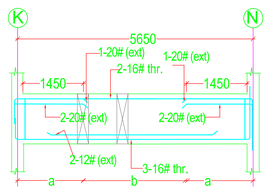
DETAILS OF RB-44
(250x450)



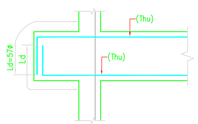
DETAILS OF RB-45
(250x450)



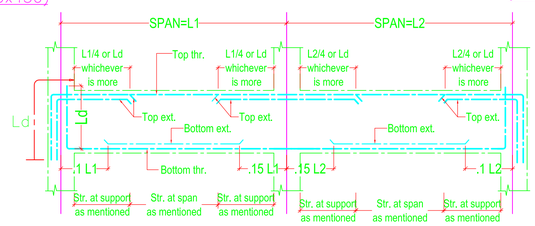
DETAILS OF TB-46
(250x400)



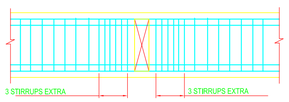
DETAILS OF TB47
(250x400)



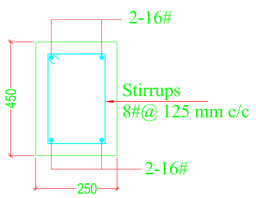
TYPICAL LAPPING DETAIL AT CANTILEVER END



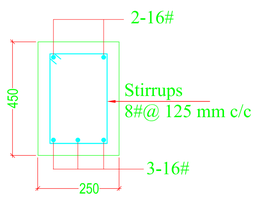
TYPICAL SECTION OF BEAM
(SHOWING CURTAILMENT OF BARS)



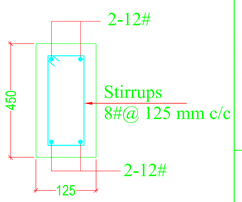
TYP.DETAIL SHOWING PRIMARY AND SECONDARY BEAM JUNCTION WITH BOTH SIDE RING @ 100 C/C MIN. 3 NOS.EITHER SIDE



DETAILS OF SRB-2



DETAILS OF SRB-2



TYPICAL
DETAILS OF SRB-1

PROPOSED NIGHT SHELTER

DRAWING TITLE
TERRACE FLOOR BEAM LAYOUT PLAN

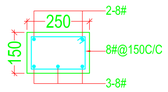
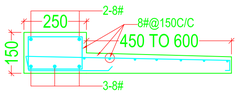
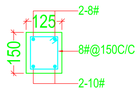
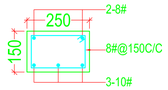
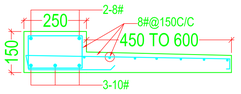
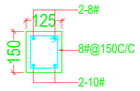
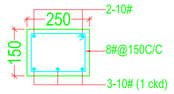
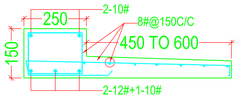
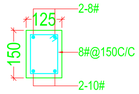
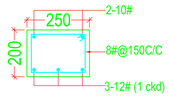
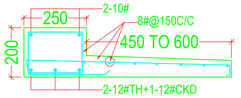
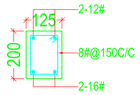
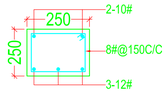
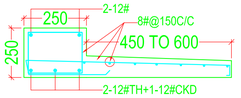
S-10	DRN.		SCALE N.T.S
	DLT.		DATE 07/ 05/ 2020
	APPD.	KIRAN CHHETRI	

Consultant -
MARS Planning and Engineering Services PVT Ltd

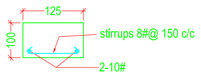
STRUCTURAL ENGINEER :
Er. Kiran Chhetri
BE Civil , M.TECH Structure Design
ph.no
7209956890

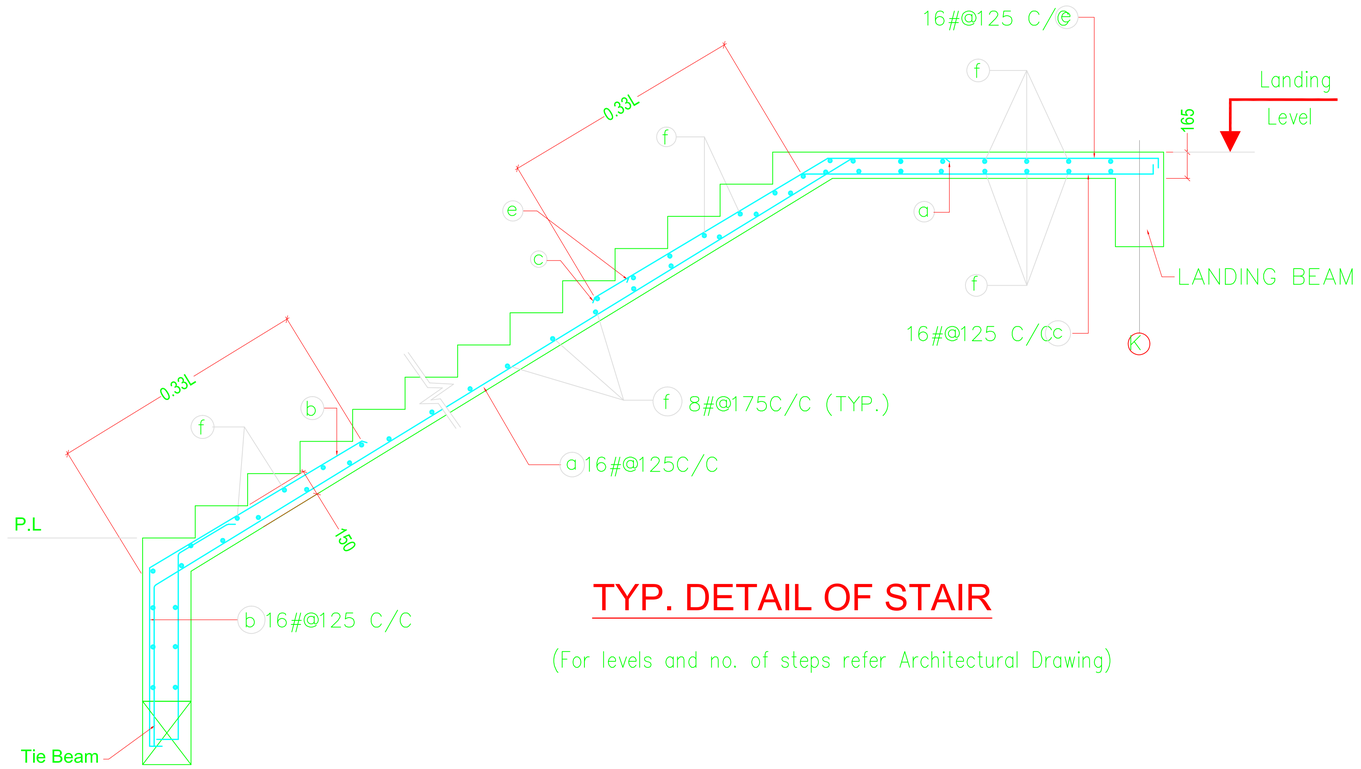
DRAWN BY:
NASIM

TYPICAL DETAILS OF LINTEL.

UP TO A OPENING OF	OVER 10" THICK WALL. CROSS SECTION. WITHOUT CHAJJA.	OVER 10" THICK WALL. CROSS SECTION. WITH CHAJJA UP TO 600 MM.	OVER 5" THICK WALL. CROSS SECTION. WITHOUT CHAJJA.
.9 m			
1.2 m			
1.5 m			
2.1 m			
2.4 m			----------

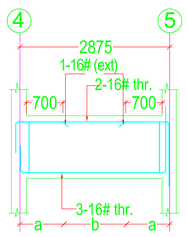
DETAIL OF LINTEL BAND

SL. No	125 THICK WALL
1	

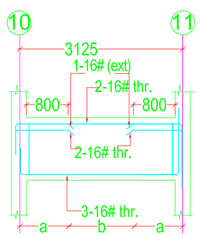


TYP. DETAIL OF STAIR

(For levels and no. of steps refer Architectural Drawing)



DETAILS OF LANDING BEAM–1 (250x450)



DETAILS OF LANDING BEAM–2 (250x600)

PROPOSED NIGHT SHELTER

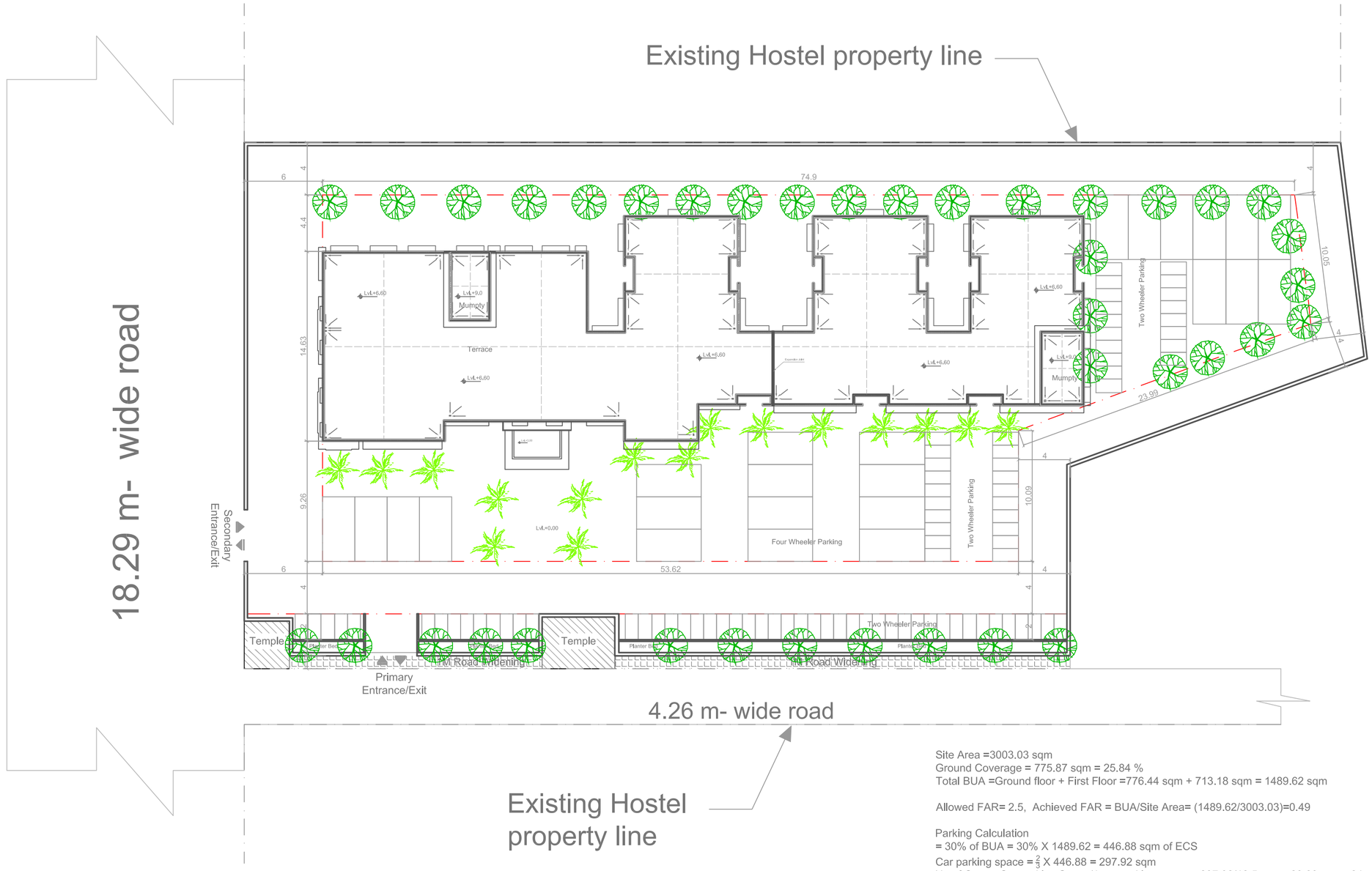
DRAWING TITLE:
LINTEL & STAIR DETAIL

S-11	DRN.		SCALE N.T.S
	DLT.		DATE 07/ 05/ 2020
	APPD.	KIRAN CHHETRI	

Consultant -
MARS Planning and Engineering Services PVT Ltd

STRUCTURAL ENGINEER :
Er. Kiran Chhetri
BE Civil , M.TECH Structure Design
ph.no
7209956890

DRAWN BY:
NASIM



Site Area =3003.03 sqm
Ground Coverage = 775.87 sqm = 25.84 %
Total BUA =Ground floor + First Floor =776.44 sqm + 713.18 sqm = 1489.62 sqm

Allowed FAR= 2.5, Achieved FAR = BUA/Site Area= (1489.62/3003.03)=0.49

Parking Calculation
= 30% of BUA = 30% X 1489.62 = 446.88 sqm of ECS
Car parking space = $\frac{2}{3}$ X 446.88 = 297.92 sqm
No of Cars = Car parking Space/1 car parking space = 297.92/12.5 sqm= 23.83 cars= 24 cars
Bike parking space = $\frac{1}{3}$ X 446.88 =148.96 sqm
No of Bikes = Bike parking space / 1 bike parking space = 148.96/2 sqm = 74.48 Bikes = 75 bikes

NOTES

1. Read this drawing along with architectural & structural drawings.
2. Do not scale, follow written dimensions only. All dimension are in mm unless otherwise noted.
3. All dimensions & levels shall be checked & co-related with relevant architectural & structural drawing & in case of any ambiguity the matter shall be brought to the notice of the consultant before starting the work.
4. Grade of concrete shall be **M-20** & shall be confirming to IS: 456 - 2000.
5. Reinforcement steel shall be High Strength Deformed TMT bars as per IS: 1786 - 1985 and having a minimum yield strength of **500** N/mm2 and having elongation more than14.5%.
6. Clear cover to main reinforcement shall be 50 mm for footing,40 mm for column, 25 mm for Beam and 20 mm for slab. Side cover of footing shall be 75 mm.
7. Not more than 50% of bars shall be lapped at any section.
8. Lap length shall be equal to Ld = 57 times smaller Dia of bars and shall be avoided in following cases - Top bars - near support, Bottom bars - near mid span.
9. Wherever necessary chairs shall be provided to support the top reinforcement in position.
10. All concrete shall be machine mixed and machine vibrated.
11. Sufficient concrete cube test and steel yield strength test is to be performed for different batches & report shall be submitted to proper authority.
12. Bearing Capacity of the soil is **6T/m² at 7m** below Ground level as per soil test report.
13. Foundation has been designed for **(G +2).** structure only.
14. Ld means 57 times of dia of bars.
15. Structure is designed for earthquake zone **III**
16. For any ambiguity,discripancy, deficient provision (if any felt necessary) etc must be brought to the notice of consultant/design office for clarification and work must be carried out after obtaining approval from competent authority.

Schedule of Area -

Plot Area	=	3003.03 sqm
Ground floor area	=	776.44 sqm
First floor area	=	735.50 sqm
Total BUA	=	1,511.94 sqm

Opening or Door/Window SCHEDULE

S.NO.	TYPE	NAME	SIZE	TOTAL NOs.	REMARKS
1.	D	Door	3,200x2,500	1	Double Shutter wooden door
2.	D1	Door	0,900x2,100	40	Single Shutter wooden door
3.	D2	Door	1,200x2,100	4	Double Shutter wooden door
4.	D3	Door	0,750x2,100	56	Single Shutter pvc door
5.	D4	Door	1,200x2,100	1	Double Shutter wooden door
6.	D5	Door	1,000x2,100	2	Sliding wooden door
7.	D6	Door	1,000x2,100	4	Single Shutter wooden door
8.	W	Window	2,000x1,700	20	Aluminium glazed sliding
9.	W1	Window	1,900x1,700	1	Aluminium glazed sliding
10.	W2	Window	3,100x2,300	2	Aluminium glazed sliding
11.	W3	Window	1,000x1,700	1	Aluminium glazed sliding
12.	W4	Window	1,200x1,700	6	Aluminium glazed sliding
13.	W5	Window	1,800x1,200	55	Aluminium glazed sliding
14.	W6	Window	0,900x1,200	3	Aluminium glazed sliding
15.	W7	Window	1,200x1,700	2	Aluminium glazed sliding
16.	W8	Window	1,800x1,700	1	Aluminium glazed sliding
17.	V	Ventilator	0,600x0,600	44	Aluminium glazed louvered
18.	G1	Fixed Glass	0,600x1,700	10	Aluminium glazed
19.	G2	Glass panel	3,200x2,500	1	Toughened glass
20.	G3	Fixed Glass	1,200x1,700	1	Aluminium glazed

Sheet Title -
Goods For Construction

Proposed Night Shelter at, Bhagalpur

Drawing No- 11. Site Plan

Sheet no - 11

Project - Night Shelter Model

Client -

Consultant -
MaRS Planning and Engineering Services PVT. Ltd.

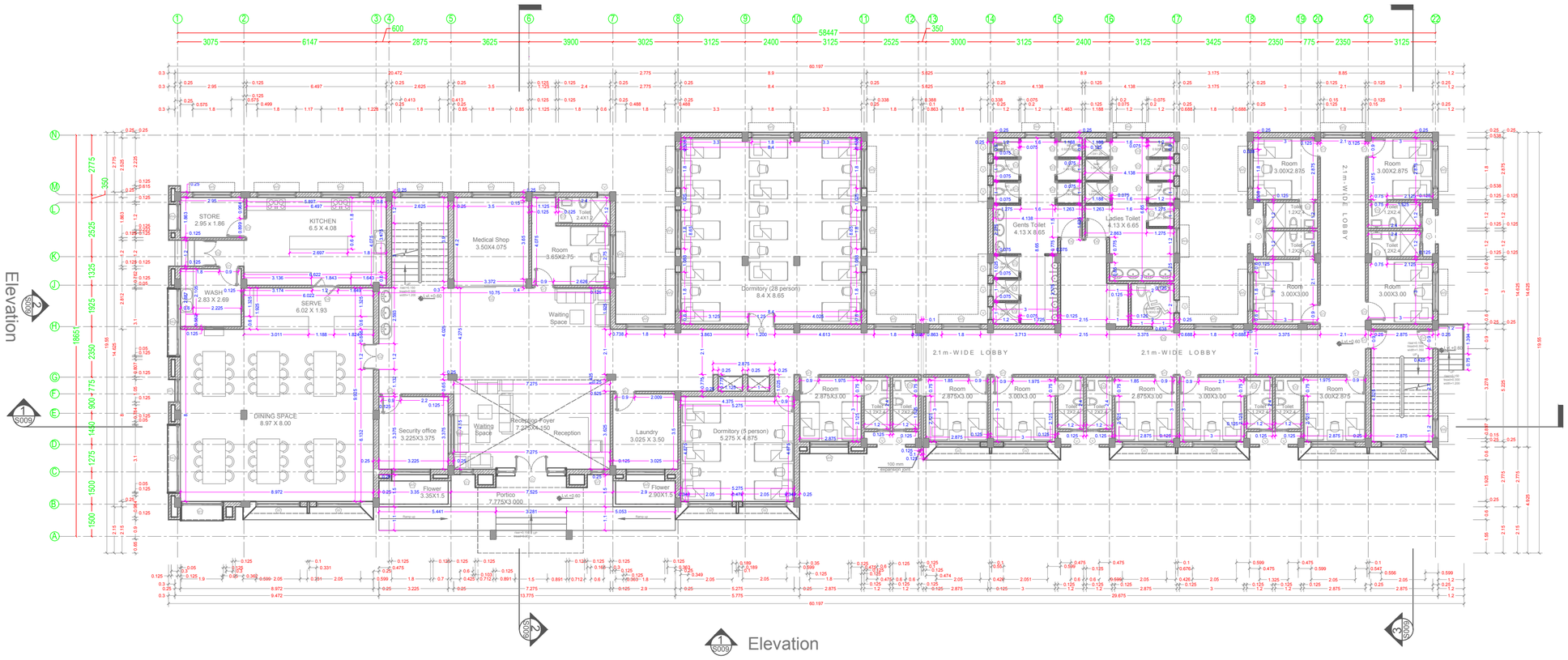
Date : 25-04-2020

Scale : NTS

North

Drawn By - Swati Priya

Checked By - Gautam K. Modi



GROUND FLOOR PLAN (Lvl.+ 0.60) AREA =776.44 sqm

NOTES

1. Read this drawing along with architectural & structural drawings.
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5.	D4	Door	1.200x2.100	1	Double Shutter wooden door
6.	D5	Door	1.000x2.100	2	Sliding wooden door
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13.	W5	Window	1.800x1.200	55	Aluminium glazed sliding
14.	W6	Window	0.900x1.200	3	Aluminium glazed sliding
15.	W7	Window	1.200x1.700	2	Aluminium glazed sliding
16.	W8	Window	1.800x1.700	1	Aluminium glazed sliding
17.	V	Ventilator	0.600x0.600	44	Aluminium glazed louvered
18.	G1	Fixed Glass	0.600x1.700	10	Aluminium glazed
19.	G2	Glass panel	3.200x2.500	1	Toughened glass
20.	G3	Fixed Glass	1.200x1.700	1	Aluminium glazed

Sheet Title -
Goods for Construction

Proposed Night Shelter at, Bhagalpur

Drawing No- 12. Ground floor Plan

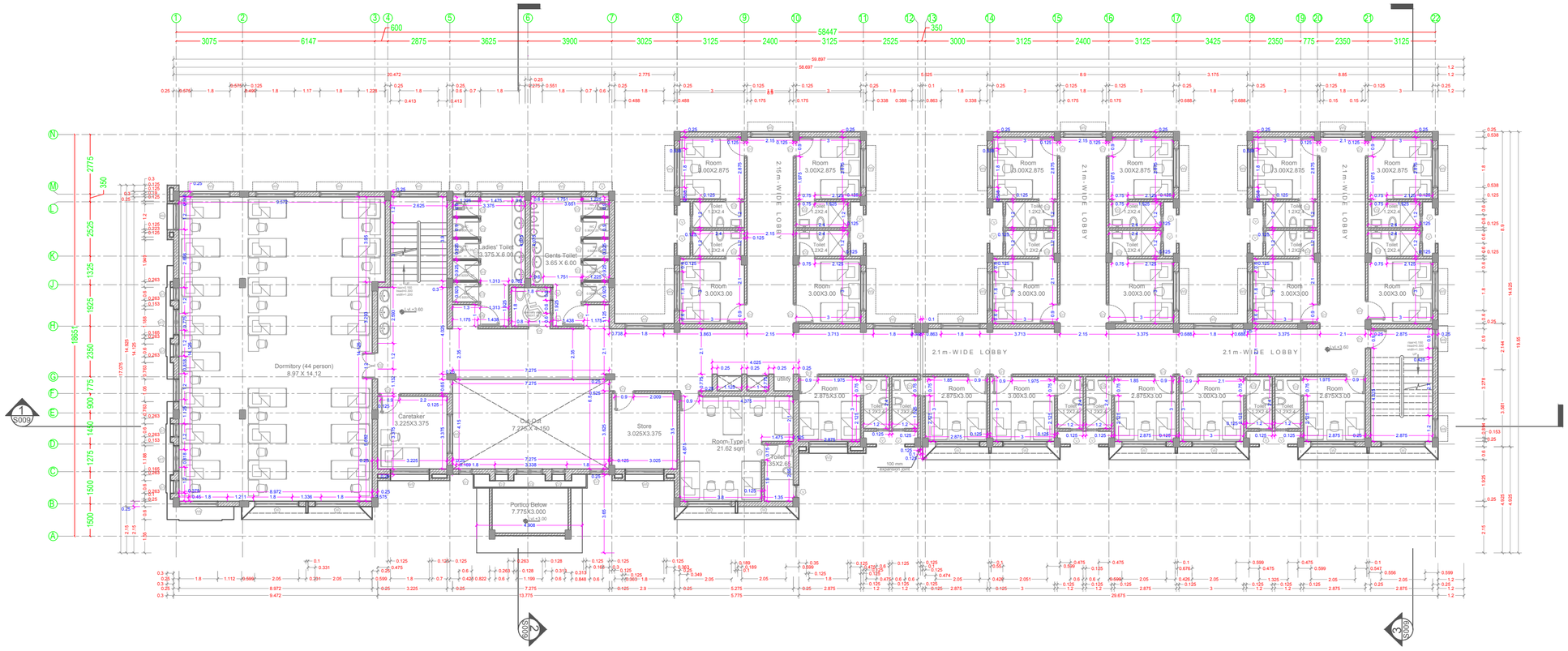
Sheet no - 12

Project - Night Shelter Model

Client -

Consultant -
MaRS Planning and Engineering Services PVT. Ltd.

Date :	North	Drawn By -
25-04-2020	N	Swati Priya
Scale :		Checked By -
NTS		Gautam K. Modi



FIRST FLOOR PLAN (Lvl.+ 3.60) AREA =735.50 sqm

NOTES

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5. Reinforcement steel shall be High Strength Deformed TMT bars as per IS: 1786 - 1985 and having a minimum yield strength of **500** N/mm2 and having elongation more than14.5%.
6. Clear cover to main reinforcement shall be 50 mm for footing,40 mm for column, 25 mm for Beam and 20 mm for slab. Side cover of footing shall be 75 mm.
7. Not more than 50% of bars shall be lapped at any section.
8. Lap length shall be equal to Ld = 57 times smaller Dia of bars and shall be avoided in following cases - Top bars - near support, Bottom bars - near mid span.
9. Wherever necessary chairs shall be provided to support the top reinforcement in position.
10. All concrete shall be machine mixed and machine vibrated.
11. Sufficient concrete cube test and steel yield strength test is to be performed for different batches & report shall be submitted to proper authority.
12. Bearing Capacity of the soil is **---T/m² at----m** below Ground level as per soil test report.
13. Foundation has been designed for **(G +2).** structure only.
14. Ld means 57 times of dia of bars.
15. Structure is designed for earthquake zone **III**
16. For any ambiguity,discripancy, deficient provision (if any felt necessary) etc must be brought to the notice of consultant/design office for clarification and work must be carried out after obtaining approval from competent authority.

Schedule of Area -

Plot Area	=	3003.03 sqm
Ground floor area	=	776.44 sqm
First floor area	=	735.50 sqm
Total BUA	=	1,511.94 sqm

Opening or Door/Window SCHEDULE

S.NO.	TYPE	NAME	SIZE	TOTAL NOs.	REMARKS
1.	D	Door	3.200x2.500	1	Double Shutter wooden door
2.	D1	Door	0.900x2.100	40	Single Shutter wooden door
3.	D2	Door	1.200x2.100	4	Double Shutter wooden door
4.	D3	Door	0.750x2.100	56	Single Shutter pvc door
5.	D4	Door	1.200x2.100	1	Double Shutter wooden door
6.	D5	Door	1.000x2.100	2	Sliding wooden door
7.	D6	Door	1.000x2.100	4	Single Shutter wooden door
8.	W	Window	2.000x1.700	20	Aluminium glazed sliding
9.	W1	Window	1.900x1.700	1	Aluminium glazed sliding
10.	W2	Window	3.100x2.300	2	Aluminium glazed sliding
11.	W3	Window	1.000x1.700	1	Aluminium glazed sliding
12.	W4	Window	1.200x1.700	6	Aluminium glazed sliding
13.	W5	Window	1.800x1.200	55	Aluminium glazed sliding
14.	W6	Window	0.900x1.200	3	Aluminium glazed sliding
15.	W7	Window	1.200x1.700	2	Aluminium glazed sliding
16.	W8	Window	1.800x1.700	1	Aluminium glazed sliding
17.	V	Ventilator	0.600x0.600	44	Aluminium glazed louvered
18.	G1	Fixed Glass	0.600x1.700	10	Aluminium glazed
19.	G2	Glass panel	3.200x2.500	1	Toughened glass
20.	G3	Fixed Glass	1.200x1.700	1	Aluminium glazed

Sheet Title -
Goods for Construction

Proposed Night Shelter at, Bhagalpur

Drawing No-
13. First floor Plan

Sheet no -
13

Project -
Night Shelter Model

Client -

Consultant -
MaRS Planning and Engineering Services PVT. Ltd.

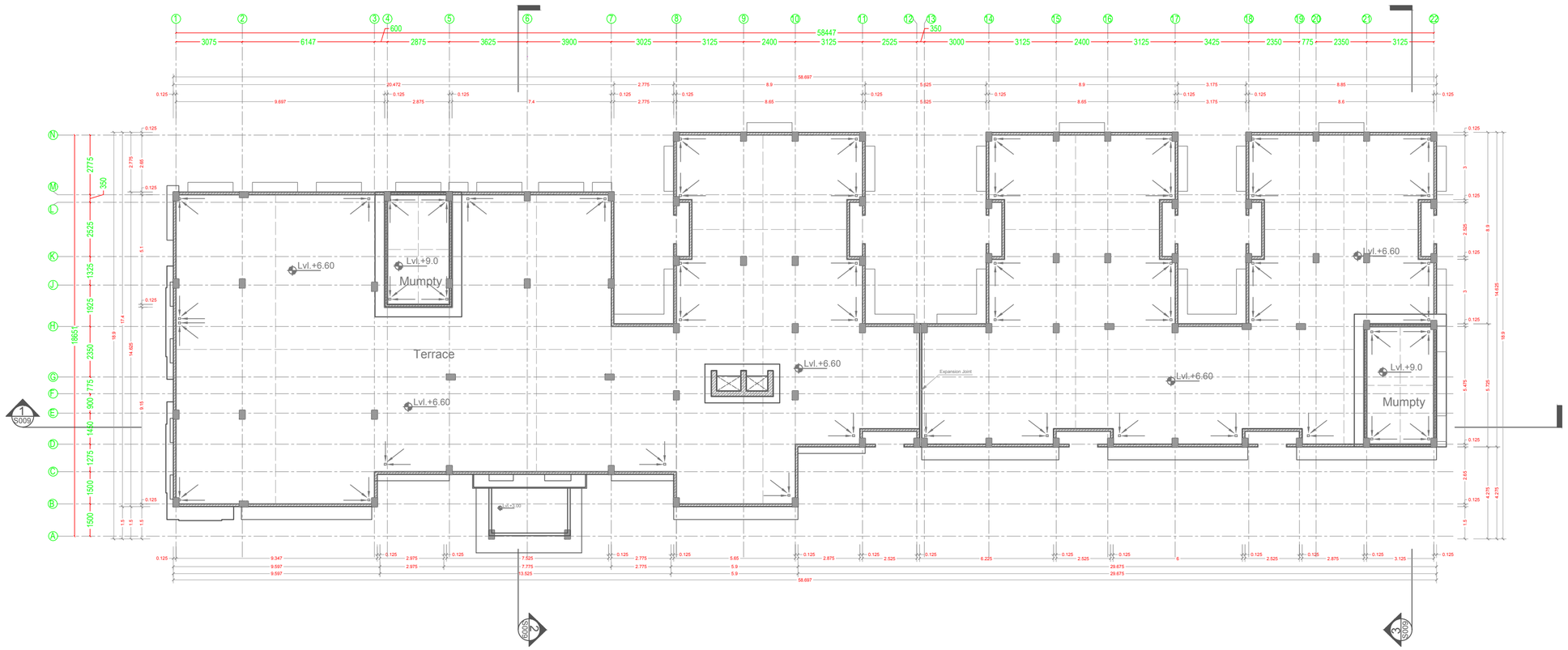
Date :
25-04-2020

Scale :
NTS

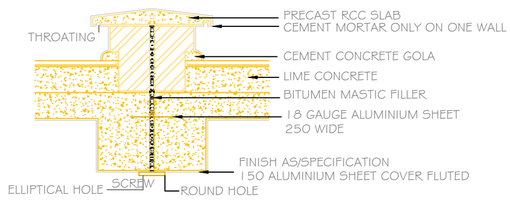
North

Drawn By -
Swati Priya

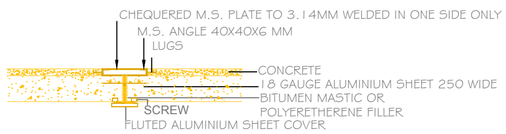
Checked By -
Gautam K. Modi



TERRACE FLOOR PLAN (Lvl.+ 6.60) AREA =743.75 sqm



EXPANSION JOINT ON ROOF TOP



EXPANSION IN FLOORING

EXPANSION IN WALL PLAN

EXPANSION IN WALL ELEVATION

DETAIL FOR EXPANSION JOINTS

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4.	D3	Door	0.750x2.100	56	Single Shutter pvc door
5.	D4	Door	1.200x2.100	1	Double Shutter wooden door
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7.	D6	Door	1.000x2.100	4	Single Shutter wooden door
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18.	G1	Fixed Glass	0.600x1.700	10	Aluminium glazed
19.	G2	Glass panel	3.200x2.500	1	Toughened glass
20.	G3	Fixed Glass	1.200x1.700	1	Aluminium glazed

Sheet Title -
Goods for Construction

Proposed Night Shelter at, Bhagalpur

Drawing No- 14. Roof Plan

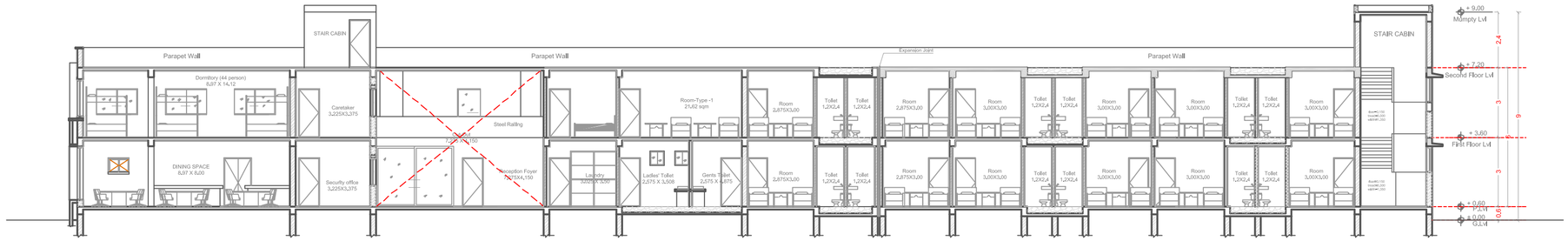
Sheet no - 14

Project - Night Shelter Model

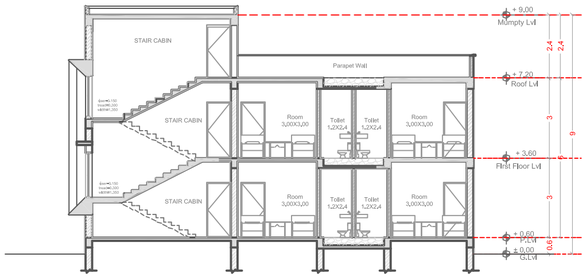
Client -

Consultant -
MaRS Planning and Engineering Services PVT. Ltd.

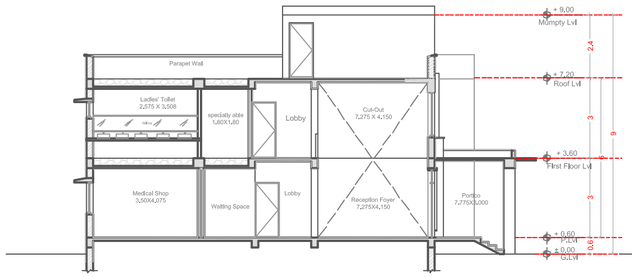
Date :	North	Drawn By -
25-04-2020	N	Swati Priya
Scale :		Checked By -
NTS		Gautam K. Modi



SECTION S004

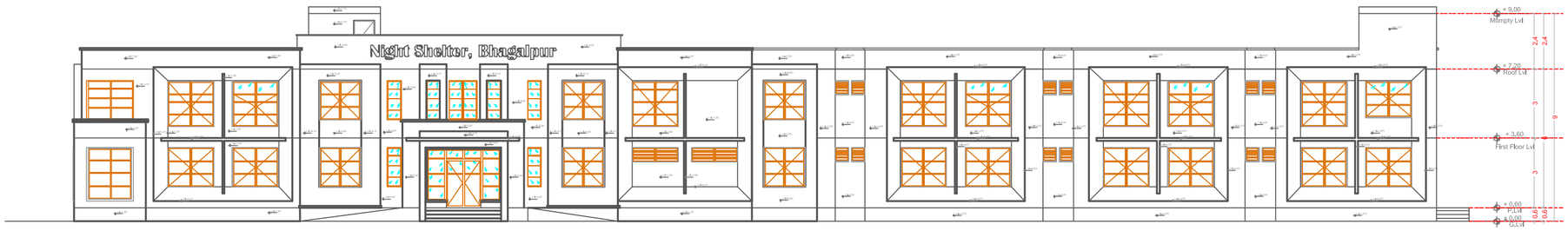


SECTION S004



SECTION S004

ELEVATION



ELEVATION

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19.	G2	Glass panel	3,200x2,500	1	Toughened glass
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Sheet Title -
Goods for Construction

Proposed Night Shelter at, Bhagalpur

Drawing No-
15. Elevation & Section

Sheet no -
15

Project -
Night Shelter Model

Client -

Consultant -
MaRS Planning and Engineering Services PVT. Ltd.

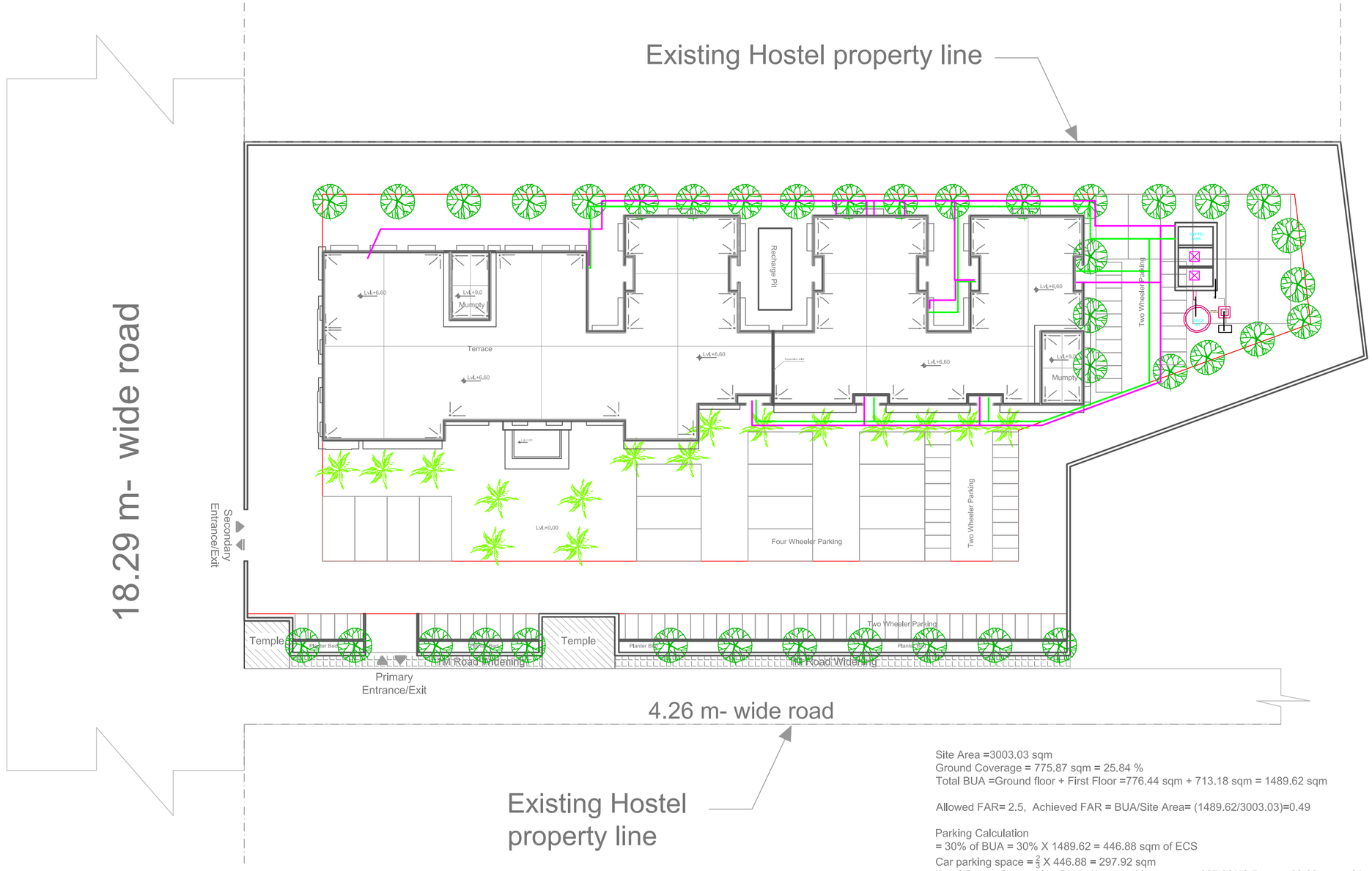
Date :
25-04-2020

Scale :
NTS

North
N

Drawn By -
Swati Priya

Checked By -
Gautam K. Modi



Site Area =3003.03 sqm
Ground Coverage = 775.87 sqm = 25.84 %
Total BUA =Ground floor + First Floor =776.44 sqm + 713.18 sqm = 1489.62 sqm

Allowed FAR= 2.5, Achieved FAR = BUA/Site Area= (1489.62/3003.03)=0.49

Parking Calculation
= 30% of BUA = 30% X 1489.62 = 446.88 sqm of ECS
Car parking space = $\frac{2}{3}$ X 446.88 = 297.92 sqm
No of Cars = Car parking Space/1 car parking space = 297.92/12.5 sqm= 23.83 cars= 24 cars
Bike parking space = $\frac{1}{3}$ X 446.88 =148.96 sqm
No of Bikes = Bike parking space / 1 bike parking space = 148.96/2 sqm = 74.48 Bikes = 75 bikes

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Schedule of Area

Plot Area = 3003.03 sqm
Ground floor area = 776.44 sqm
First floor area = 735.50 sqm
Total BUA = Total floor area= 1,511.94 sqm

Opening or Door/Window SCHEDULE

S.NO.	TYPE	NAME	SIZE	TOTAL NOs.	REMARKS
1.	D	Door	3,200x2,500	1	Double Shutter wooden door
2.	D1	Door	0,900x2,100	40	Single Shutter wooden door
3.	D2	Door	1,200x2,100	4	Double Shutter wooden door
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5.	D4	Door	1,200x2,100	1	Double Shutter wooden door
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8.	W	Window	2,000x1,700	20	Aluminium glazed sliding
9.	W1	Window	1,900x1,700	1	Aluminium glazed sliding
10.	W2	Window	3,100x2,300	2	Aluminium glazed sliding
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18.	G1	Fixed Glass	0,600x1,700	10	Aluminium glazed
19.	G2	Glass panel	3,200x2,500	1	Toughened glass
20.	G3	Fixed Glass	1,200x1,700	1	Aluminium glazed

Sheet Title -
Plumbing Drawings

Proposed Night Shelter at, Bhagalpur

Drawing No- 16. Site Plan

Sheet no - 16

Project - Night Shelter Model

Client -

Consultant -
MaRS Planning and Engineering Services PVT. Ltd.

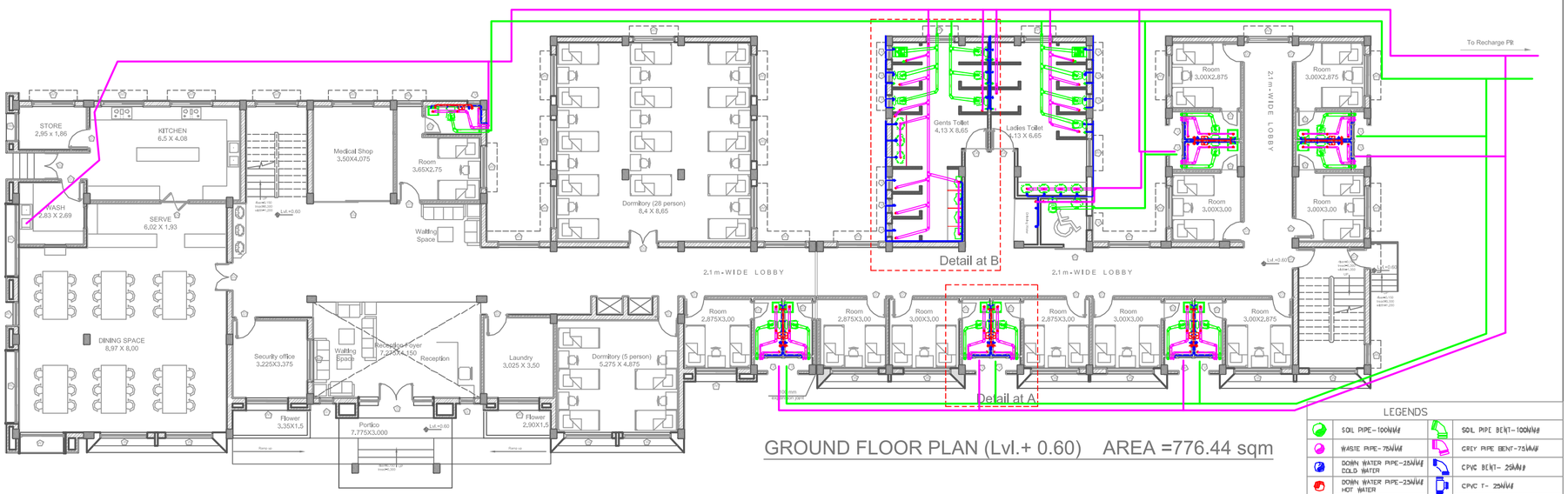
Date : 06-05-2020

Scale : NTS

North

Drawn By - Vikrant Kumar

Checked By - Gautam K. Modi



GROUND FLOOR PLAN (Lvl.+ 0.60) AREA =776.44 sqm

LEGENDS

	SOIL PIPE-100MM		SOIL PIPE BENT-100MM
	WASTE PIPE-75MM		GREY PIPE BENT-75MM
	DOWN WATER PIPE-25MM COLD WATER		CPVC BENT- 25MM
	DOWN WATER PIPE-25MM HOT WATER		CPVC T- 25MM
	FLOOR TRAP 75MM		UPVC T- 25MM
	COLD WATER TAP 20MM		UPVC BENT- 25MM
	HOT WATER TAP 20MM		P-TRAP-75MM WASTE
	HEALTH FAUCET TAP 20MM		P-TRAP -100MM SOIL
	GEYSER 15L-300X600 MM		WATER FLOW/SLOPE DIRECTION
	WESTERN COMMODE		WASH BASN-WALL HUNG
	CPVC PIPE-25MM		WASTE PIPE-75MM
	UPVC PIPE-25MM		SOIL PIPE-100MM

FIRST FLOOR PLAN (Lvl.+ 3.60) AREA =735.50 sqm

LEGENDS

	SOIL PIPE-100MM		SOIL PIPE BENT-100MM
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	HEALTH FAUCET TAP 20MM		P-TRAP -100MM SOIL
	GEYSER 15L-300X600 MM		WATER FLOW/SLOPE DIRECTION
	WESTERN COMMODE		WASH BASN-WALL HUNG
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	UPVC PIPE-25MM		SOIL PIPE-100MM

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16.	W8	Window	1,800x1,700	1	Aluminium glazed sliding
17.	V	Ventilator	0,600x0,600	44	Aluminium glazed louvered
18.	G1	Fixed Glass	0,600x1,700	10	Aluminium glazed
19.	G2	Glass panel	3,200x2,500	1	Toughened glass
20.	G3	Fixed Glass	1,200x1,700	1	Aluminium glazed

Sheet Title -
Plumbing Drawings

Proposed Night Shelter at, Bhagalpur

Drawing No-
17. floor Plans

Sheet no -
17

Project -
Night Shelter Model

Client -

Consultant -
MaRS Planning and Engineering Services PVT. Ltd.

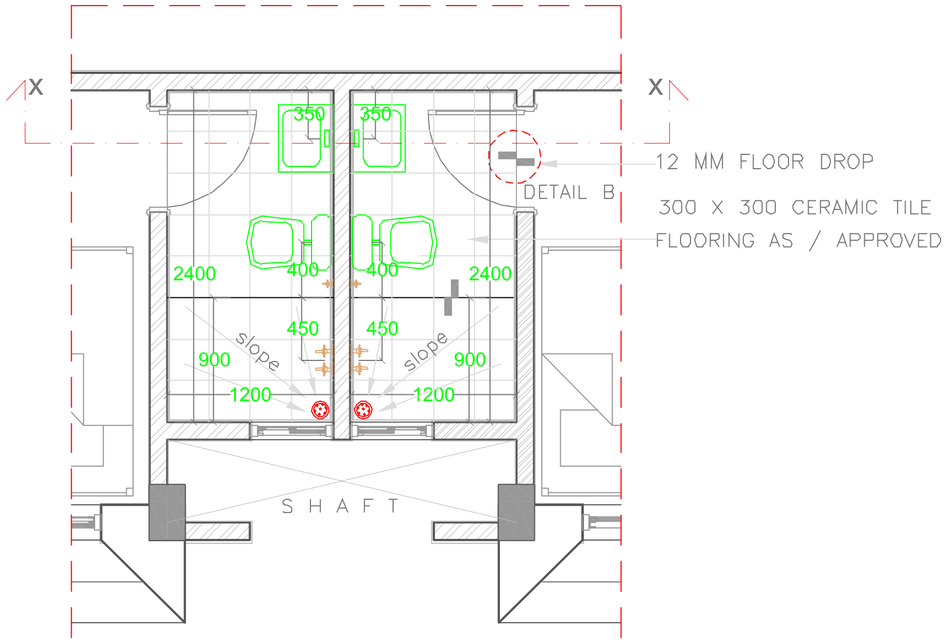
Date :
06-05-2020

Scale :
NTS

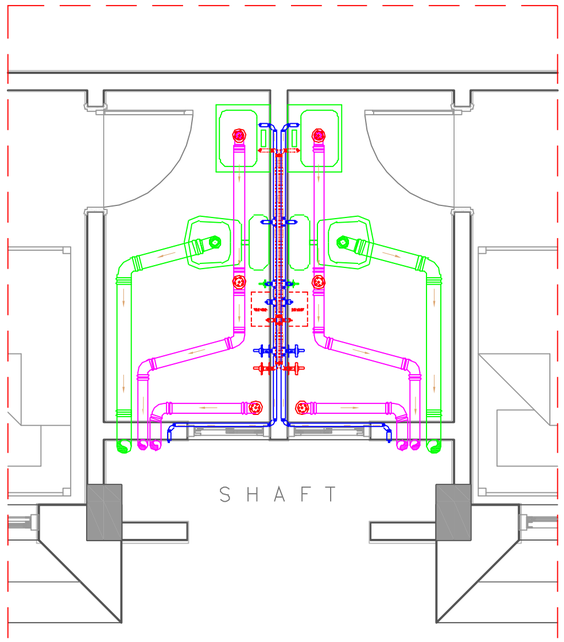
North
N

Drawn By -
Vikrant Kumar

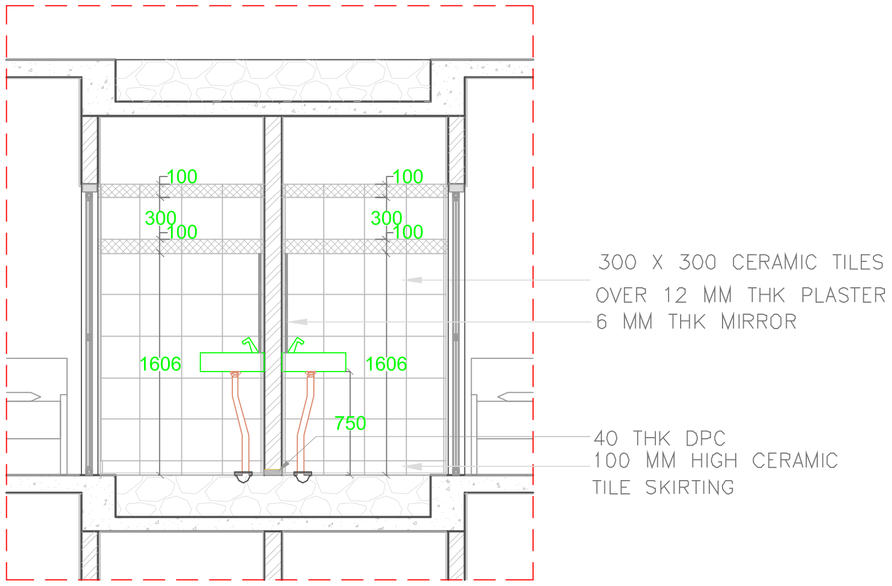
Checked By -
Gautam K. Modi



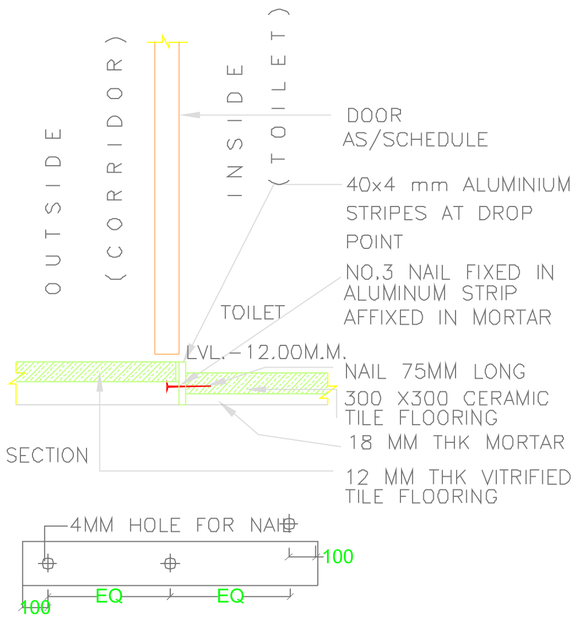
Detail at A



Plumbing Layout



Section at XX / Typical
Toilet Wall Tile detail



DETAIL B SHOWING FLOOR DROP

LEGENDS

	SOIL PIPE-100MM#		SOIL PIPE BENT-100MM#
	WASTE PIPE-75MM#		GREY PIPE BENT-75MM#
	DOWN WATER PIPE-25MM# COLD WATER		CPVC BENT- 25MM#
	DOWN WATER PIPE-25MM# HOT WATER		CPVC T- 25MM#
	FLOOR TRAP 75MM#		UPVC T- 25MM#
	COLD WATER TAP 20MM#		UPVC BENT- 25MM#
	HOT WATER TAP 20MM#		P-TRAP-75MM# WASTE
	HEALTH FAUCET TAP 20MM#		P-TRAP -100MM# SOIL
	GEYSER 15L-300X600 MM		WATER FLOW/SLOPE DIRECTION
	WESTERN COMMODE		WASH BASIN-WALL HUNG
	CPVC PIPE-25MM#		WASTE PIPE-75MM#
	UPVC PIPE-25MM#		SOIL PIPE-100MM#

NOTES

1. Read this drawing along with architectural & structural drawings.
2. Do not scale, follow written dimensions only. All dimension are in mm unless otherwise noted.
3. All dimensions & levels shall be checked & co-related with relevant architectural & structural drawing & in case of any ambiguity the matter shall be brought to the notice of the consultant before starting the work.
4. Grade of concrete shall be **M-20** & shall be confirming to IS: 456 - 2000.
5. Reinforcement steel shall be High Strength Deformed TMT bars as per IS: 1786 - 1985 and having a minimum yield strength of **500** N/mm2 and having elongation more than14.5%.
6. Clear cover to main reinforcement shall be 50 mm for footing,40 mm for column, 25 mm for Beam and 20 mm for slab. Side cover of footing shall be 75 mm.
7. Not more than 50% of bars shall be lapped at any section.
8. Lap length shall be equal to Ld = 57 times smaller Dia of bars and shall be avoided in following cases - Top bars - near support, Bottom bars - near mid span.
9. Wherever necessary chairs shall be provided to support the top reinforcement in position.
10. All concrete shall be machine mixed and machine vibrated.
11. Sufficient concrete cube test and steel yield strength test is to be performed for different batches & report shall be submitted to proper authority.
12. Bearing Capacity of the soil is **6 T/m² at 7m** below Ground level as per soil test report.
13. Foundation has been designed for **(G +2).** structure only.
14. Ld means 57 times of dia of bars.
15. Structure is designed for earthquake zone **III**
16. For any ambiguity,discripancy, deficient provision (if any felt necessary) etc must be brought to the notice of consultant/design office for clarification and work must be carried out after obtaining approval from competent authority.

Schedule of Area

Plot Area = 3003.03 sqm
Ground floor area = 776.44 sqm
First floor area = 735.50 sqm
Total BUA = Total floor area= 1,511.94 sqm

Opening or Door/Window SCHEDULE

S.NO.	TYPE	NAME	SIZE	TOTAL NOs.	REMARKS
1.	D	Door	3,200x2,500	1	Double Shutter wooden door
2.	D1	Door	0,900x2,100	40	Single Shutter wooden door
3.	D2	Door	1,200x2,100	4	Double Shutter wooden door
4.	D3	Door	0,750x2,100	56	Single Shutter pvc door
5.	D4	Door	1,200x2,100	1	Double Shutter wooden door
6.	D5	Door	1,000x2,100	2	Sliding wooden door
7.	D6	Door	1,000x2,100	4	Single Shutter wooden door
8.	W	Window	2,000x1,700	20	Aluminium glazed sliding
9.	W1	Window	1,900x1,700	1	Aluminium glazed sliding
10.	W2	Window	3,100x2,300	2	Aluminium glazed sliding
11.	W3	Window	1,000x1,700	1	Aluminium glazed sliding
12.	W4	Window	1,200x1,700	6	Aluminium glazed sliding
13.	W5	Window	1,800x1,200	55	Aluminium glazed sliding
14.	W6	Window	0,900x1,200	3	Aluminium glazed sliding
15.	W7	Window	1,200x1,700	2	Aluminium glazed sliding
16.	W8	Window	1,800x1,700	1	Aluminium glazed sliding
17.	V	Ventilator	0,600x0,600	44	Aluminium glazed louvered
18.	G1	Fixed Glass	0,600x1,700	10	Aluminium glazed
19.	G2	Glass panel	3,200x2,500	1	Toughened glass
20.	G3	Fixed Glass	1,200x1,700	1	Aluminium glazed

Sheet Title -
Plumbing Drawings

Proposed Night Shelter at, Bhagalpur

Drawing No- 18. Details

Sheet no - 18

Project - Night Shelter Model

Client -

Consultant -
MaRS Planning and Engineering Services PVT. Ltd.

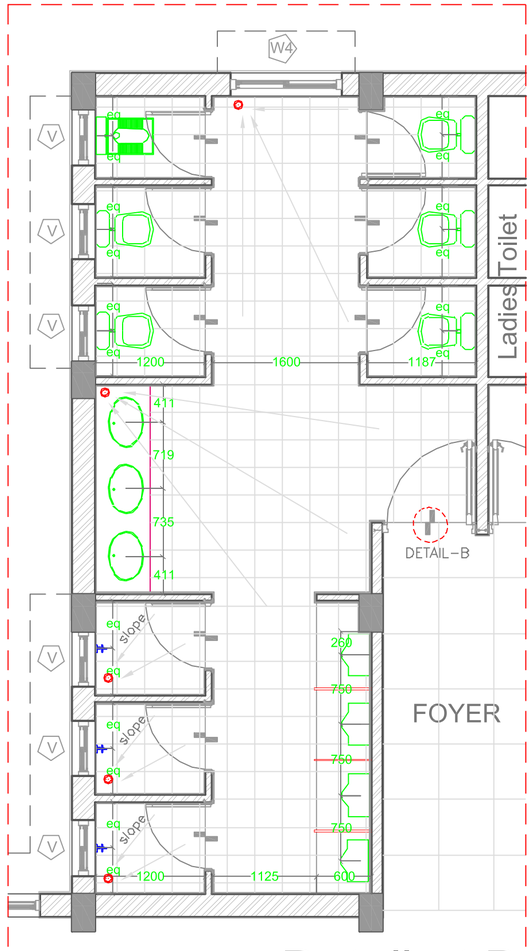
Date : 06-05-2020

Scale : NTS

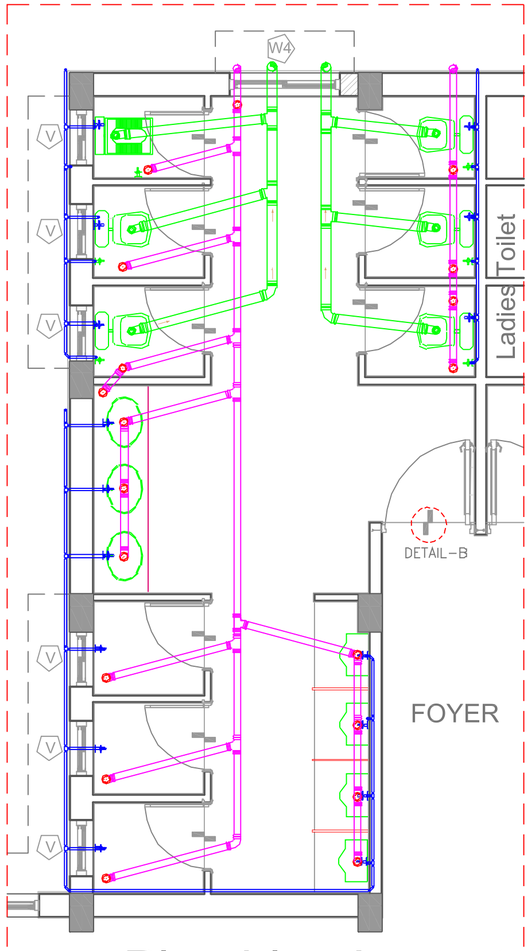
North

Drawn By - Vikrant Kumar

Checked By - Gautam K. Modi



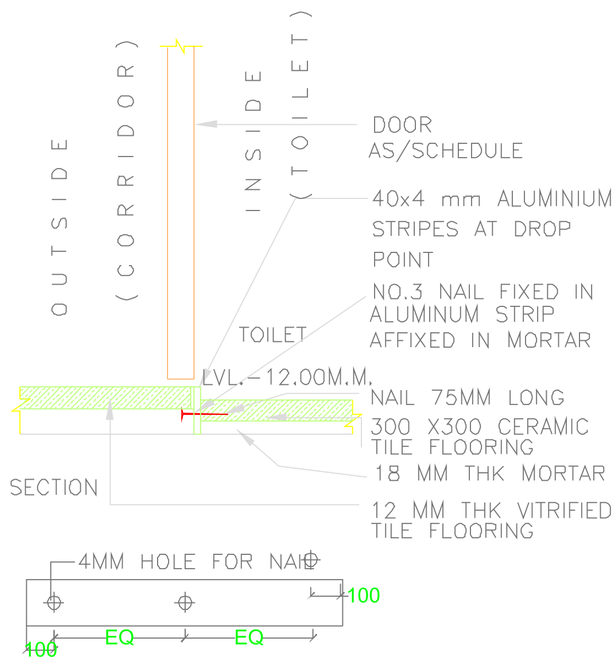
Detail at B



Plumbing Layout

LEGENDS

	SOIL PIPE-100MM#		SOIL PIPE BENT-100MM#
	WASTE PIPE-75MM#		GREY PIPE BENT-75MM#
	DOWN WATER PIPE-25MM# COLD WATER		CPVC BENT- 25MM#
	DOWN WATER PIPE-25MM# HOT WATER		CPVC T- 25MM#
	FLOOR TRAP 75MM#		UPVC T- 25MM#
	COLD WATER TAP 20MM#		UPVC BENT- 25MM#
	HOT WATER TAP 20MM#		P-TRAP-75MM# WASTE
	HEALTH FAUCET TAP 20MM#		P-TRAP -100MM# SOIL
	GEYSER 15L-300X600 MM		WATER FLOW/SLOPE DIRECTION
	WESTERN COMMODE		WASH BASIN-WALL HUNG
	CPVC PIPE-25MM#		WASTE PIPE-75MM#
	UPVC PIPE-25MM#		SOIL PIPE-100MM#



DETAIL B SHOWING FLOOR DROP

NOTES

1. Read this drawing along with architectural & structural drawings.
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4. Grade of concrete shall be **M-20** & shall be confirming to IS: 456 - 2000.
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14. Ld means 57 times of dia of bars.
15. Structure is designed for earthquake zone **III**
16. For any ambiguity,discripancy, deficient provision (if any felt necessary) etc must be brought to the notice of consultant/design office for clarification and work must be carried out after obtaining approval from competent authority.

Schedule of Area

Plot Area = 3003.03 sqm
Ground floor area = 776.44 sqm
First floor area = 735.50 sqm
Total BUA = Total floor area= 1,511.94 sqm

Opening or Door/Window SCHEDULE

S.NO.	TYPE	NAME	SIZE	TOTAL NOs.	REMARKS
1.	D	Door	3,200x2,500	1	Double Shutter wooden door
2.	D1	Door	0,900x2,100	40	Single Shutter wooden door
3.	D2	Door	1,200x2,100	4	Double Shutter wooden door
4.	D3	Door	0,750x2,100	56	Single Shutter pvc door
5.	D4	Door	1,200x2,100	1	Double Shutter wooden door
6.	D5	Door	1,000x2,100	2	Sliding wooden door
7.	D6	Door	1,000x2,100	4	Single Shutter wooden door
8.	W	Window	2,000x1,700	20	Aluminium glazed sliding
9.	W1	Window	1,900x1,700	1	Aluminium glazed sliding
10.	W2	Window	3,100x2,300	2	Aluminium glazed sliding
11.	W3	Window	1,000x1,700	1	Aluminium glazed sliding
12.	W4	Window	1,200x1,700	6	Aluminium glazed sliding
13.	W5	Window	1,800x1,200	55	Aluminium glazed sliding
14.	W6	Window	0,900x1,200	3	Aluminium glazed sliding
15.	W7	Window	1,200x1,700	2	Aluminium glazed sliding
16.	W8	Window	1,800x1,700	1	Aluminium glazed sliding
17.	V	Ventilator	0,600x0,600	44	Aluminium glazed louvered
18.	G1	Fixed Glass	0,600x1,700	10	Aluminium glazed
19.	G2	Glass panel	3,200x2,500	1	Toughened glass
20.	G3	Fixed Glass	1,200x1,700	1	Aluminium glazed

Sheet Title -
Plumbing Drawings

Proposed Night Shelter at, Bhagalpur

Drawing No- 19. Details

Sheet no - 19

Project - Night Shelter Model

Client -

Consultant -
MaRS Planning and Engineering Services PVT. Ltd.

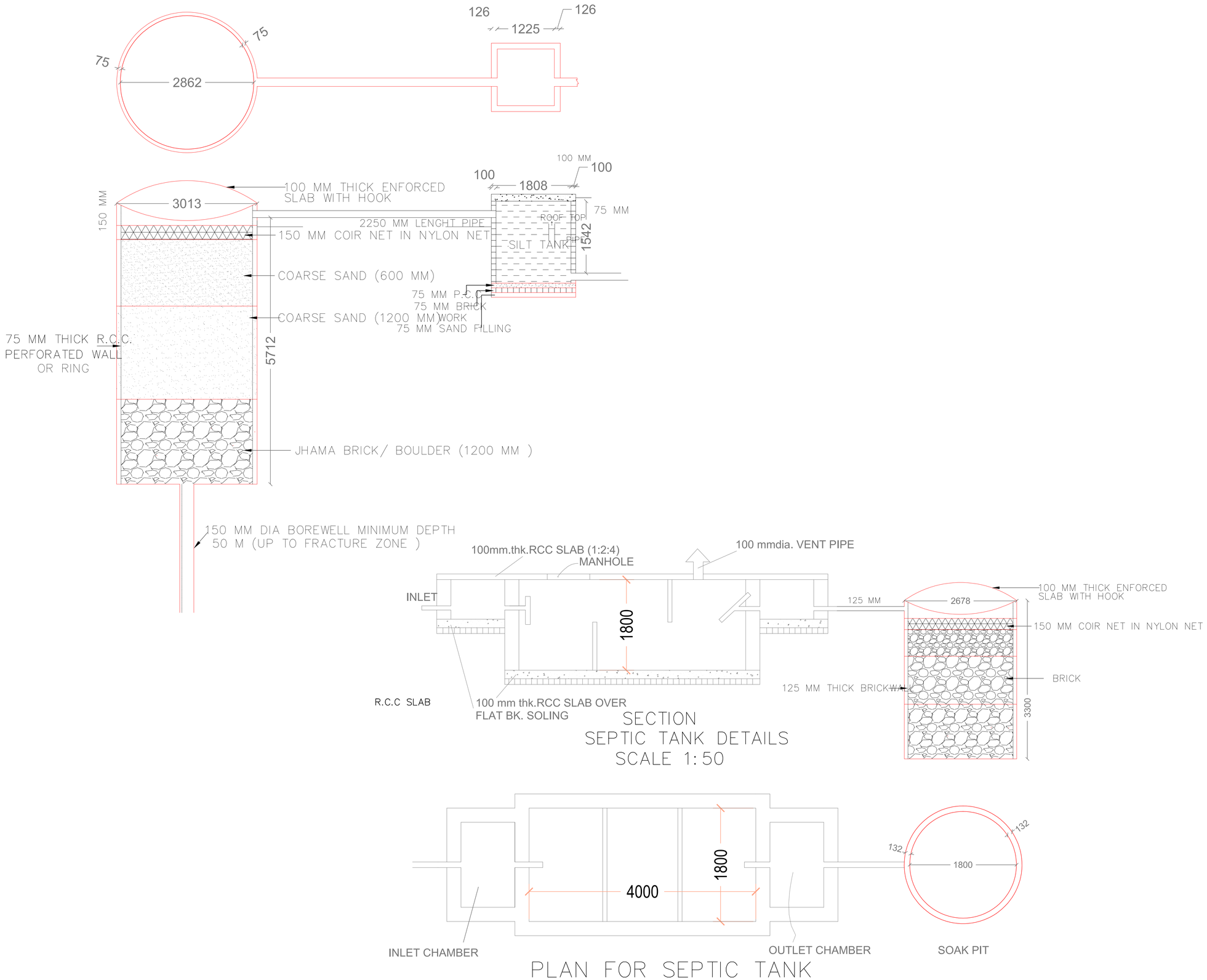
Date : 06-05-2020

Scale : NTS

North

Drawn By - Vikrant Kumar

Checked By - Gautam K. Modi



Schedule of Area

Plot Area = 3003.03 sqm

Ground floor area = 776.44 sqm

First floor area = 735.50 sqm

Total BUA = Total floor area= 1,511.94 sqm

Sheet Title - Plumbing Drawings

Proposed Night Shelter at, Bhagalpur

Drawing No- 20. Septik Tank & Soak Pit

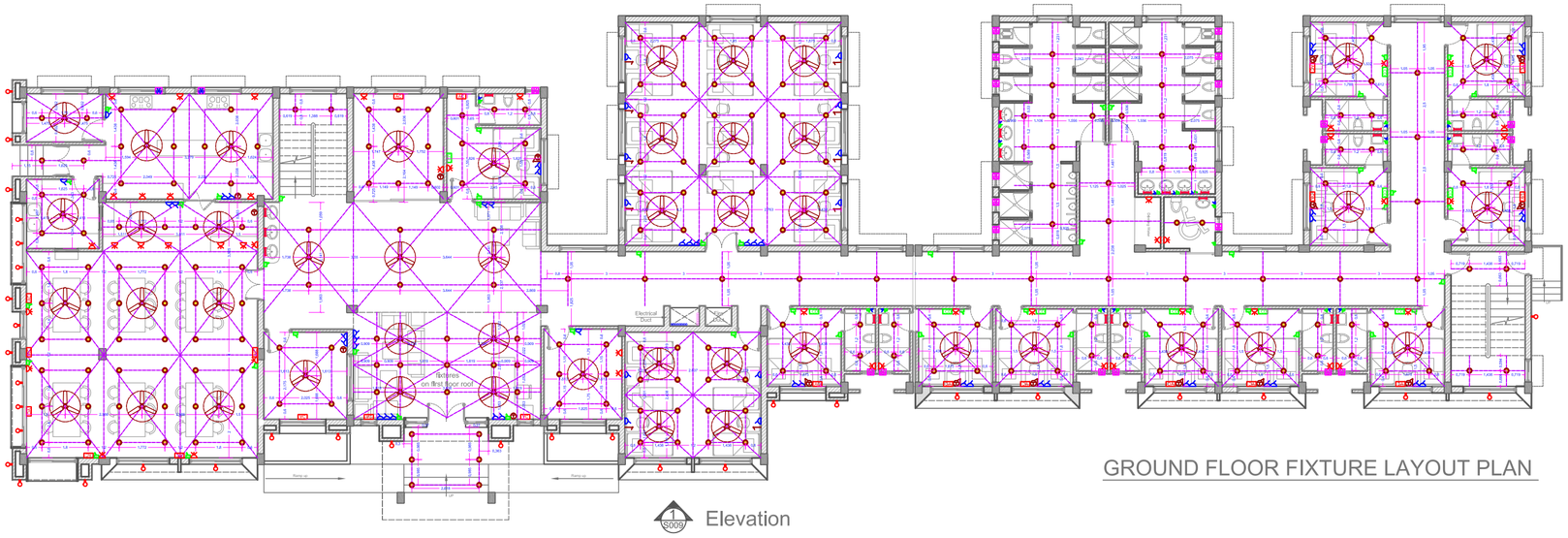
Sheet no - 20

Project - Night Shelter Model

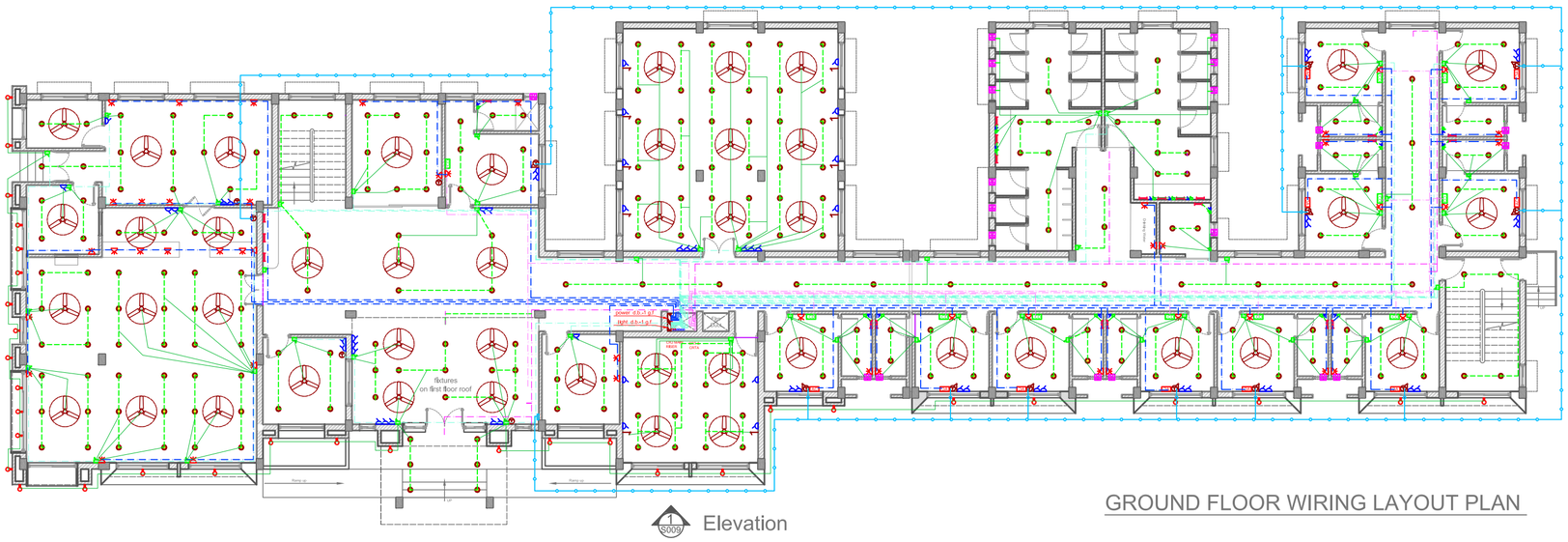
Client -

Consultant - MaRS Planning and Engineering Services PVT. Ltd.

Date :	North	Drawn By -
06-05-2020	N	Vikrant Kumar
Scale :		Checked By -
NTS		Gautam K. Modi



GROUND FLOOR FIXTURE LAYOUT PLAN



GROUND FLOOR WIRING LAYOUT PLAN

LIGHT & POWER D.B. DETAIL GROUND FLOOR.

Distribution board details(Light&Power D.B's)-1 G.F.(P&L)							
8+24 way T.P.N Double Door Distribution board							
ITEMS	TYPE	GROUP	AMP	NO.	LOAD	SIZE OF WIRE FOR CIRCUIT	COLOUR
T.P.N M.C.B	10ka	C	40A	2	Main 415V	4x6sq.mm 1x6sq.mm	Red+Yellow+Blue+ Black+Green
S.P M.C.B	10ka	C	6A	18	Light point	2x2.5sq.mm +1x2.5sq.mm	Red+Black+Green
M.C.C M.C.B	10ka	C	16A	6	Light Power point	2x4sq.mm +1x4sq.mm	Red+Black+Green

LIGHT & POWER D.B.DETAIL GROUND FLOOR.

Distribution board details(Light&Power D.B's)-2 G.F.(P&L)							
8+24 way T.P.N Double Door Distribution board							
ITEMS	TYPE	GROUP	AMP	NO.	LOAD	SIZE OF WIRE FOR CIRCUIT	COLOUR
T.P.N M.C.B	10ka	C	40A	2	Main 415V	4x6sq.mm 1x6sq.mm	Red+Yellow+Blue+ Black+Green
S.P M.C.B	10ka	C	6A	18	Light point	2x2.5sq.mm +1x2.5sq.mm	Red+Black+Green
M.C.C M.C.B	10ka	C	16A	2	Light Power point	2x4sq.mm +1x4sq.mm	Red+Black+Green

NOTE-

1. Diameterof conduits for point wiring by 20mmdia,switch board by 25mmdia, power point circuit by 25mmdia and submain - by 2x25mm.dia pcv pipe.
2. CRT-conduit rise for telephone,
3. CRTA-conduit rise for .T.V antenna.
4. CRJ conduit rise & junction for main.
5. Use architectural drg for detail dimension.
6. Position of power & light pointsshould becompared with the position of gyser & basin respectively from P.H.E drg.
7. Total light,fan other point's drop laying by 0.75mm.sq.copper condutor PVC insulated wire,colour-white/Brown/pink/any other colour, but note use four colour-Red,Blue,Yellow, Black and Green.

LEGEND

SYMBOL	DESCRIPTION	HEIGHT
	CEILING FAN-60WATTS	ON CEILING
	BOLLARD LIGHTS	ON ground
	MIRROR LIGHT - 1'	7'-0"
	NIGHT BULB-10 WATTS (CROCUS)	8'6"
	L.E.D-10 WATTS (ORBIT)	ON wall
	5 AMPS TV & SOCKET	4'2" HT
	CEILING LIGHT-12 WATTS (PEARL ROUND)	ON CEILING
	FLASH JUNCTION BOX	ON wall
	SWITCH BOARD	ON wall
	BED SWITCH	4'6" HT
	TWO WAY SWITCH	2'6" HT
	5 AMPS SWITCH SOCKET	1'6" HT
	15 AMPS SWITCH SOCKET	1'6" HT
	25 AMPS SWITCH SOCKET	
	CALL BELL BUZZER	1'6" HT
	CALL BELL PUSH	4'6" HT
	OUT LET FOR TELEPHONE	1'6" HT
	OUT LET FOR TV	1'6" HT
	EXHAUST FAN	6'-0"
	LIGHT DB.	6'6" HT
	METERING PANEL	LV+1'6" HT

ROUTE OF TV TELEPHONE WIRING (19MM)
ROUTE OF POINT WIRING (25MM)
ROUTE OF POINT WIRING (19MM)
ROUTE OF CIRCUIT WIRING (19MM)
ROUTE OF SUB MAIN WIRING (40MM)
Telephone wiring 19mm
ROUTE OF POWER POINT WRING.(25MM)
CCTV - wiring

Sheet Title –
Electrical Drawings

Proposed Night Shelter at, Bhagalpur

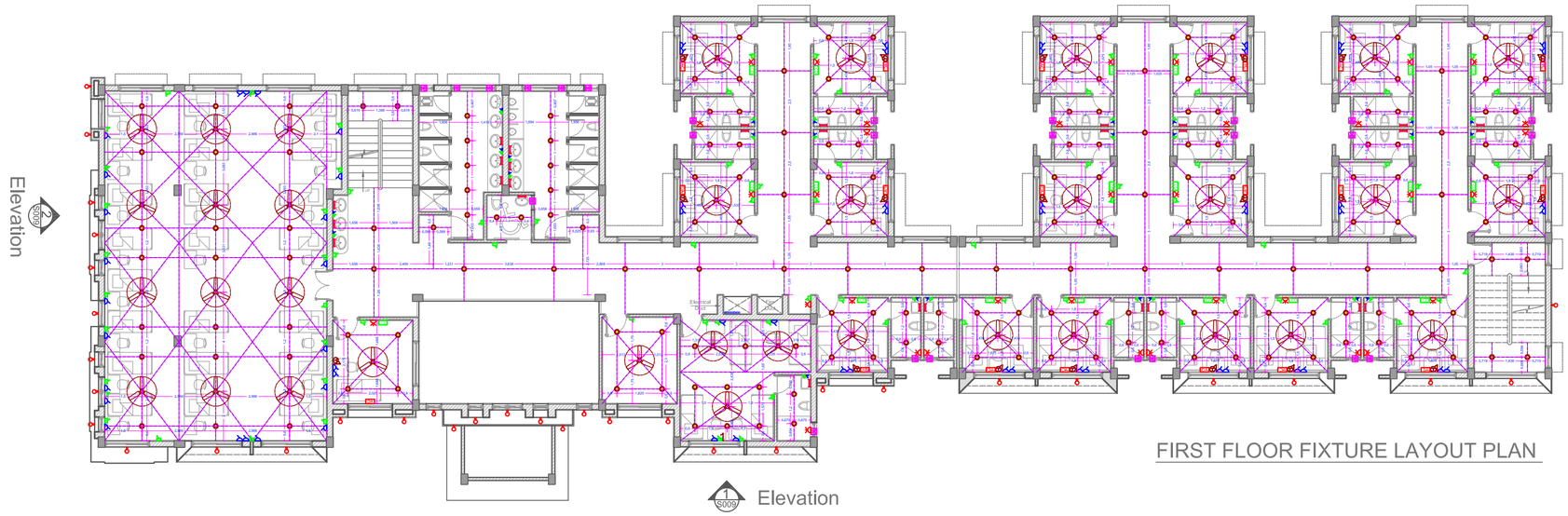
Drawing No–
Sheet no –
20. Ground floor Plan 20

Project – Night Shelter Model

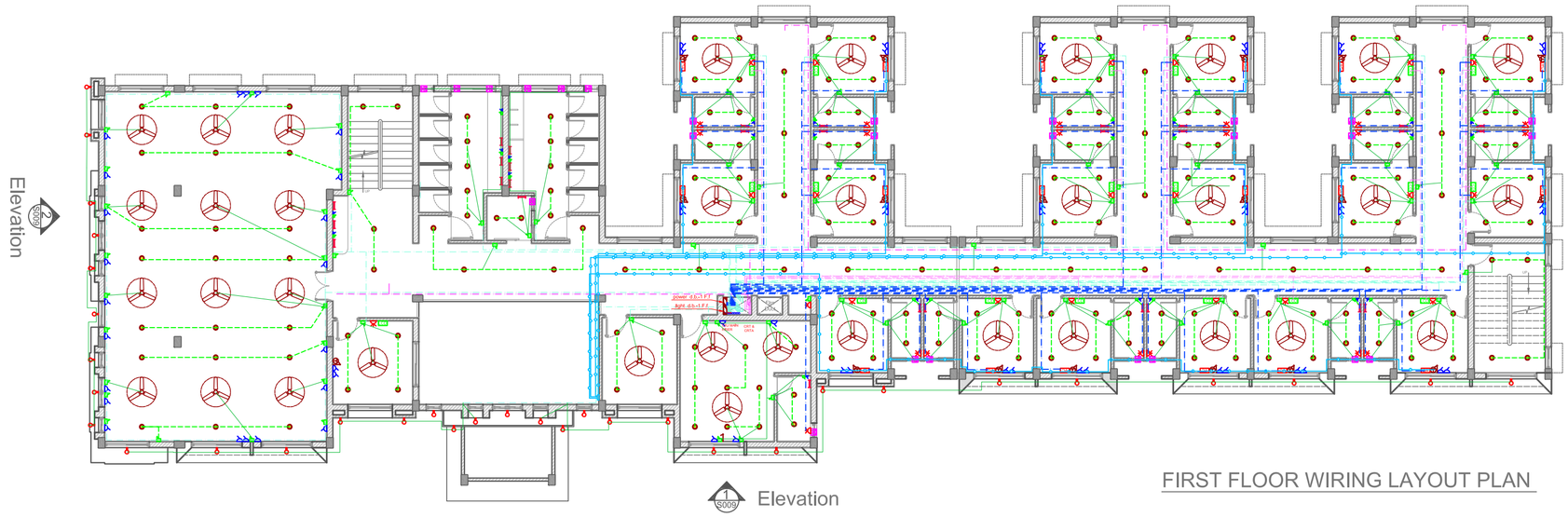
Client –

Consultant –
MARS Planning and Engineering Services PVT. Ltd.

Date :- 04-05-2020
Drawn By – Santosh K. Paswan
Checked By – Gautam K. Modi
Scale :- NTS
North



FIRST FLOOR FIXTURE LAYOUT PLAN



FIRST FLOOR WIRING LAYOUT PLAN

NOTE-

1. Diameterof conduits for point wiring by 20mmdia,switch board by 25mmdia, power point circuit by 25mmdia and submain - by 2x25mm.dia pcv pipe.
2. CRT-conduit rise for telephone,
3. CRTA-conduit rise for .T.V antenna.
4. CRJ conduit rise & junction for main.
5. Use architectural drg for detail dimension.
6. Position of power & light pointsshould becompared with the position of gyser & basin respectively from P.H.E drg.
7. Total light,fan other point's drop laying by 0.75mm.sq.copper condutor PVC insulated wire,colour-white/Brown/pink/any other colour, but note use four colour-Red,Blue,Yellow, Black and Green.

LEGEND

SYMBOL	DESCRIPTION	HEIGHT
	CEILING FAN-60WATTS	ON CEILING
	BOLLARD LIGHTS	ON ground
	MIRROR LIGHT - 1'	7'-0"
	NIGHT BULB-10 WATTS (CROCUS)	8'6"
	L.E.D-10 WATTS (ORBIT)	ON wall
	5 AMPS TV & SOCKET	4'2" HT
	CEILING LIGHT-12 WATTS (PEARL ROUND)	ON CEILING
	FLASH JUNCTION BOX	ON wall
	SWITCH BOARD	ON wall
	BED SWITCH	4'6" HT
	TWO WAY SWITCH	2'6" HT
	5 AMPS SWITCH SOCKET	1'6" HT
	15 AMPS SWITCH SOCKET	1'6" HT
	25 AMPS SWITCH SOCKET	
	CALL BELL BUZZER	1'6" HT
	CALL BELL PUSH	4'6" HT
	OUT LET FOR TELEPHONE	1'6" HT
TV	OUT LET FOR TV	1'6" HT
	EXHAUST FAN	6'-0"
	LIGHT DB.	6'6" HT
	METERING PANEL	LV+1'6" HT

ROUTE OF TV TELEPHONE WIRING (19MM)
ROUTE OF POINT WIRING (25MM)
ROUTE OF POINT WIRING (19MM)
ROUTE OF CIRCUIT WIRING (19MM)
ROUTE OF SUB MAIN WIRING (40MM)
Telephone wiring 19mm
ROUTE OF POWER POINT WRING.(25MM)
CCTV - wiring

LIGHT & POWER D.B. DETAIL GROUND FLOOR.

Distribution board details(Light&Power D.B's)-1 G.F.(P&L)

8+24 way T.P.N Double Door Distribution board

ITEMS	TYPE	GROUP	AMP	NO.	LOAD	SIZE OF WIRE FOR CIRCUIT	COLOUR
T.P.N M.C.B	10ka	C	40A	2	Main 415V	4x6sq.mm 1x6sq.mm	Red+Yellow+Blue+ Black+Green
S.P M.C.B	10ka	C	6A	18	Light point	2x2.5sq.mm +1x2.5sq.mm	Red+Black+Green
M.C.C M.C.B	10ka	C	16A	6	Light Power point	2x4sq.mm +1x4sq.mm	Red+Black+Green

LIGHT & POWER D.B.DETAIL GROUND FLOOR.

Distribution board details(Light&Power D.B's)-2 G.F.(P&L)

8+24 way T.P.N Double Door Distribution board

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S.P M.C.B	10ka	C	6A	18	Light point	2x2.5sq.mm +1x2.5sq.mm	Red+Black+Green
M.C.C M.C.B	10ka	C	16A	2	Light Power point	2x4sq.mm +1x4sq.mm	Red+Black+Green

Sheet Title –
Electrical Drawings

Proposed Night Shelter at, Bhagalpur

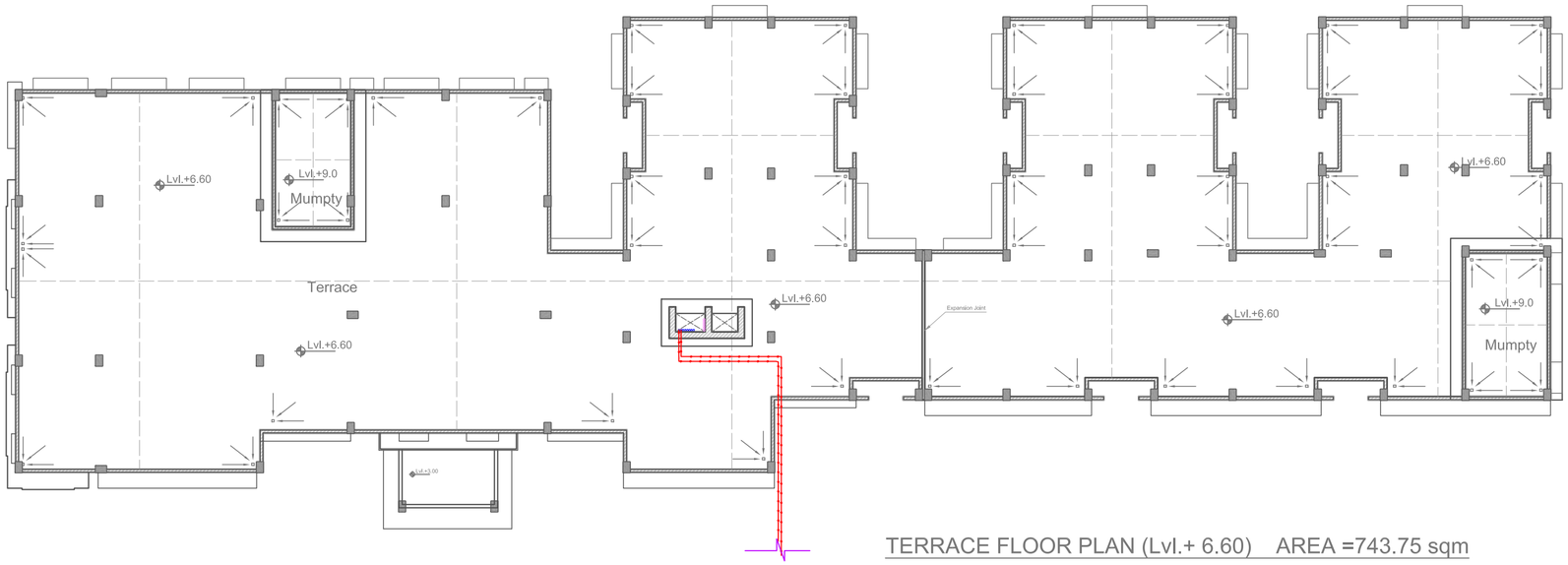
Drawing No–
Sheet no – 21. First floor Plan | 21

Project – Night Shelter Model

Client –

Consultant –
MARS Planning and Engineering Services PVT. Ltd.

Date - 04-05-2020
Drawn By – Santosh K. Paswan
Checked By – Gautam K. Modi
Scale – NTS
North



TERRACE FLOOR PLAN (Lvl.+ 6.60) AREA =743.75 sqm

NOTE-

1. Diameterof conduits for point wiring by 20mmdia,switch board by 25mmdia, power point circuit by 25mmdia and submain - by 2x25mm.dia pcv pipe.
2. CRT-conduit rise for telephone,
3. CRTA-conduit rise for .T.V antenna.
4. CRJ conduit rise & junction for main.
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LEGEND

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	BOLLARD LIGHTS	ON ground
	MIRROR LIGHT - 1'	7'-0"
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	L.E.D-10 WATTS (ORBIT)	ON wall
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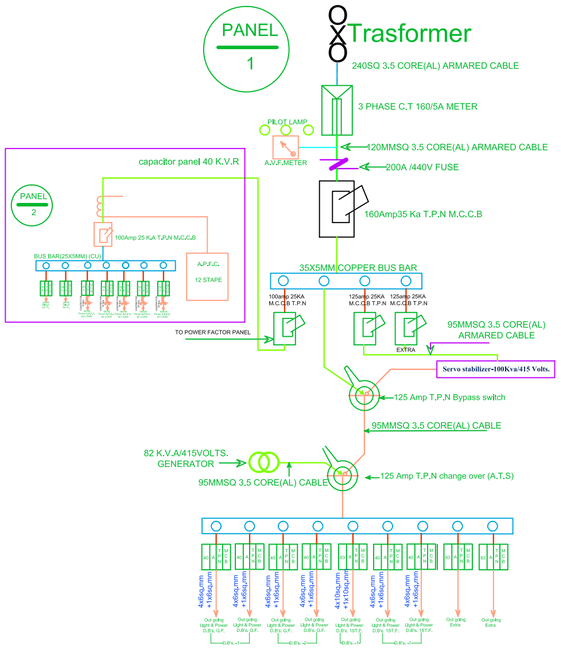
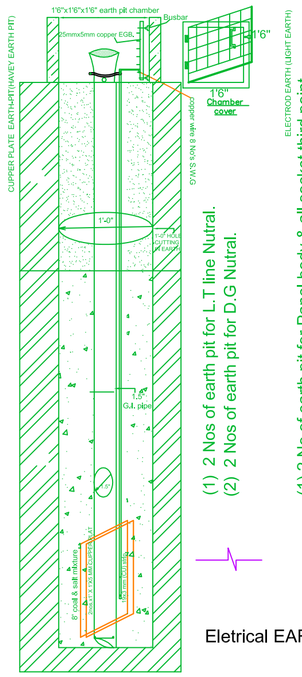
	CEILING LIGHT-12 WATTS (PEARL ROUND)	ON CEILING
	FLASH JUNCTION BOX	ON wall
	SWITCH BOARD	ON wall
	BED SWITCH	4'6" HT
	TWO WAY SWITCH	2'6" HT
	5 AMPS SWITCH SOCKET	1'6" HT
	15 AMPS SWITCH SOCKET	1'6" HT
	25 AMPS SWITCH SOCKET	
	CALL BELL BUZZER	1'6" HT
	CALL BELL PUSH	4'6" HT
	OUT LET FOR TELEPHONE	1'6" HT
	OUT LET FOR TV	1'6" HT
	EXHAUST FAN	6'-0"
	LIGHT DB.	6'6" HT
	METERING PANEL	LV+1'6" HT
	ROUTE OF TV TELEPHONE WIRING (19MM)	
	ROUTE OF POINT WIRING (25MM)	
	ROUTE OF POINT WIRING (19MM)	
	ROUTE OF CIRCUIT WIRING (19MM)	
	ROUTE OF SUB MAIN WIRING (40MM)	
	Telephone wiring 19mm	
	ROUTE OF POWER POINT WRING.(25MM)	
	CCTV - wiring	

L.T.PANEL-(SINGAL LINE DIGRAM)

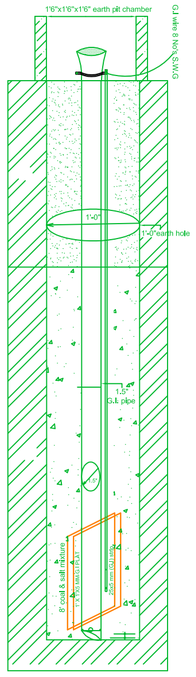




(1) 2 Nos of earth pit for L.T line Nutral.
(2) 2 Nos of earth pit for D.G Nutral.

(1) 2 No of earth pit for Panel body & all socket third point.
(2) 2 No of earth pit for Genretor body.

Eletrical EARTH-PIT



LEGEND

SYMBOL	DESCRIPTION	HEIGHT	quantity	unit
	CEILING FAN-60WATTS	ON CEILING	81	nos
	BOLLARD LIGHTS	ON Ground	18	nos
	Mirror Light - 1'	7'-0"	53	nos
	NIGHT BULB-10 WATTS (CROCUS)	8'6"	-	nos
	L.E.D-10 WATTS (ORBIT)	ON wall	-	nos
	5 AMPS TV & SOCKET	4'2" HT	30	nos
	CEILING LIGHT-12 WATTS (PEARL ROUND)	ON CEILING	454	nos
	FLASH JUNCTION BOX	ON wall	75	nos
	SWITCH BOARD	ON wall	172	nos
	BED SWITCH	4'6" HT	-	nos
	TWO WAY SWITCH	2'6" HT	42	nos
	5 AMPS SWITCH SOCKET	1'6" HT	166	nos
	15 AMPS SWITCH SOCKET	1'6" HT	84	nos
	25 AMPS SWITCH SOCKET		-	nos
	CALL BELL BUZZER	1'6" HT	-	nos
	CALL BELL PUSH	4'6" HT	-	nos
	OUT LET FOR TELEPHONE	1'6" HT	71	nos
	OUT LET FOR TV	1'6" HT	30	nos
	EXHAUST FAN	6'-0"	48	nos
	LIGHT DB.	6'6" HT	4	nos
	METERING PANEL	LV+1'6" HT	1	nos
	ROUTE OF TV TELEPHONE WIRING (19MM)		550	Metre
	ROUTE OF POINT WIRING (25MM)		1050	Metre
	ROUTE OF POINT WIRING (19MM)		1800	Metre
	ROUTE OF CIRCUIT WIRING (19MM)		1450	Metre
	ROUTE OF SUB MAIN WIRING (40MM)		100	Metre
	Telephone wiring 19mm		350	Metre
	ROUTE OF POWER POINT WRING.(25MM)		750	Metre
	CCTV - wiring		320	Metre

Sheet Title –
Electrical Drawings

Proposed Night Shelter at, Bhagalpur

Drawing No–
Sheet no –
22. details

22

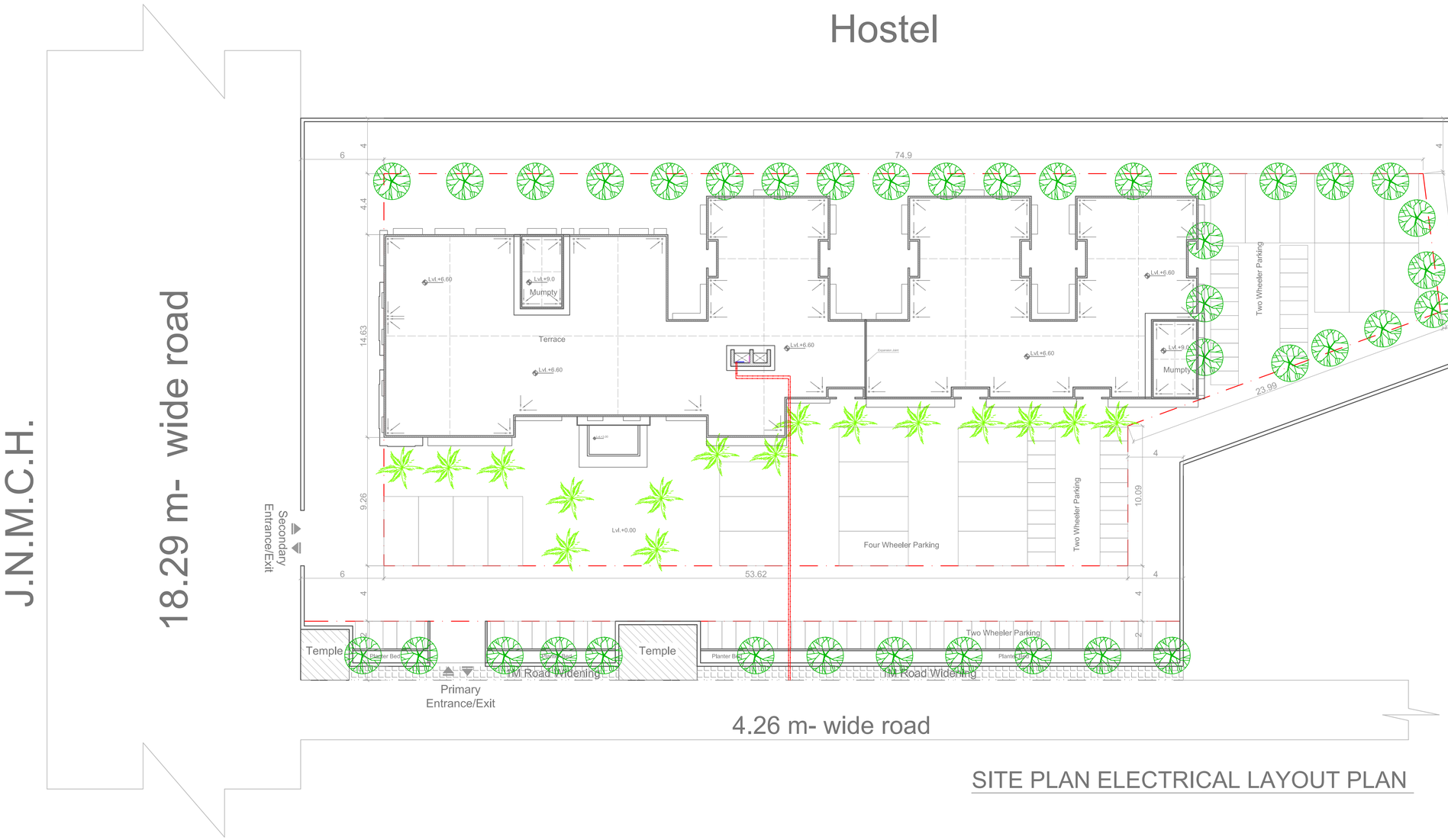
Project – Night Shelter Model

Client –

Consultant –
MARS Planning and Engineering Services PVT. Ltd.

Date :- 04-05-2020
Drawn By – Santosh K. Paswan
Scale :- N.T.S.
Checked By – Gautam K. Modi

North



SITE PLAN ELECTRICAL LAYOUT PLAN

NOTE-

1. Diameterof conduits for point wiring by 20mmdia,switch board by 25mmdia, power point circuit by 25mmdia and submain - by 2x25mm,dia pcv pipe.
2. CRT-conduit rise for telephone,
3. CRTA-conduit rise for .T.V antenna.
4. CRJ conduit rise & junction for main.
5. Use architectural drg for detail dimension.
6. Position of power & light pointsshould becompared with the position of gyser & basin respectively from P.H.E drg.
7. Total light,fan other point's drop laying by 0.75mm.sq.copper condutor PVC insulated wire,colour-white/Brown/pink/any other colour, but note use four colour-Red,Blue,Yellow, Black and Green.

LEGEND

SYMBOL	DESCRIPTION	HEIGHT
	CEILING FAN-60WATTS	ON CEILING
	BOLLARD LIGHTS	ON ground
	MIRROR LIGHT - 1'	7'-0"
	NIGHT BULB-10 WATTS (CROCUS)	8'6"
	L.E.D-10 WATTS (ORBIT)	ON wall
	5 AMPS TV & SOCKET	4'2" HT
	CEILING LIGHT-12 WATTS (PEARL ROUND)	ON CEILING
	FLASH JUNCTION BOX	ON wall
	SWITCH BOARD	ON wall
	BED SWITCH	4'6" HT
	TWO WAY SWITCH	2'6" HT
	5 AMPS SWITCH SOCKET	1'6" HT
	15 AMPS SWITCH SOCKET	1'6" HT
	25 AMPS SWITCH SOCKET	
	CALL BELL BUZZER	1'6" HT
	CALL BELL PUSH	4'6" HT
	OUT LET FOR TELEPHONE	1'6" HT
TV	OUT LET FOR TV	1'6" HT
	EXHAUST FAN	6'-0"
	LIGHT DB.	6'6" HT
	METERING PANEL	LV+1'6" HT

ROUTE OF TV TELEPHONE WIRING (19MM)
ROUTE OF POINT WIRING (25MM)
ROUTE OF POINT WIRING (19MM)
ROUTE OF CIRCUIT WIRING (19MM)
ROUTE OF SUB MAIN WIRING (40MM)
Telephone wiring 19mm
ROUTE OF POWER POINT WRING,(25MM)
CCTV - wiring

Sheet Title – Electrical Drawings

Proposed Night Shelter at, Bhagalpur

Drawing No– 23.0 Site Plan

Sheet No 23

Project – Night Shelter Model

Client –

Consultant –
MaRS Planning and Engineering Services PVT. Ltd.

Date :- 04-05-2020

Drawn By – Santosh K. Paswan

Scale :- NTS

Checked By – Gautam K. Modi

North