



TRM CONSTRUCTION

Green Nest Homes

Er. T.MURUGANANDHAM .BE

DATE: 11.11.2019

To

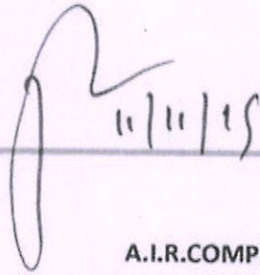
The Principal,
Sri Bharathi Engineering College for Women,
Kaikkurichi,
Pudukkottai – 622 303.

Dear Sir/Madam,

With reference to your Brochure dated 05.11.2019, We would like to get the quotation for the Design of a Residential Building with a plinth area of 4650 sq.ft for duplex home with two floors as per the attached building plan. The design should include complete and accurate reinforcement detailing of all sections with drawings for each floor separately based on our requirements. Any other input or specific requirements or documents needed from our end may be provided for the completion of the design.

Thanking you

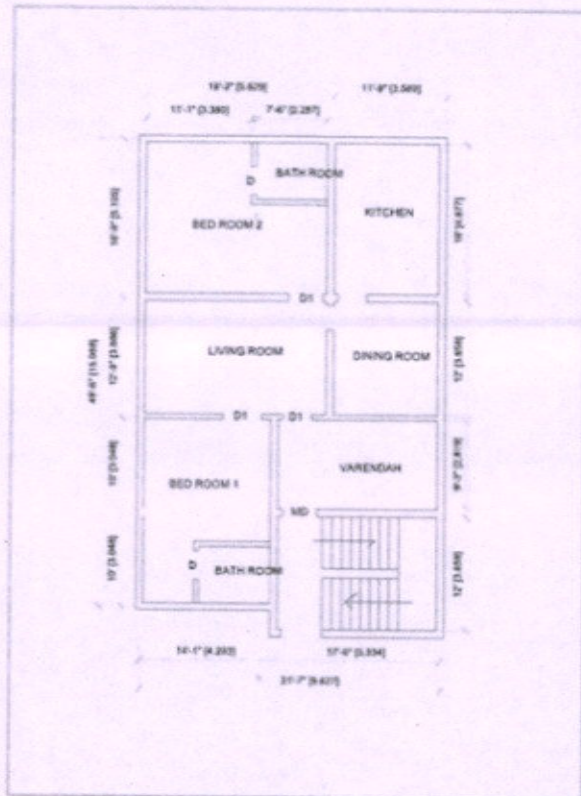
Forwarded to
HOD/CEI


11/11/19

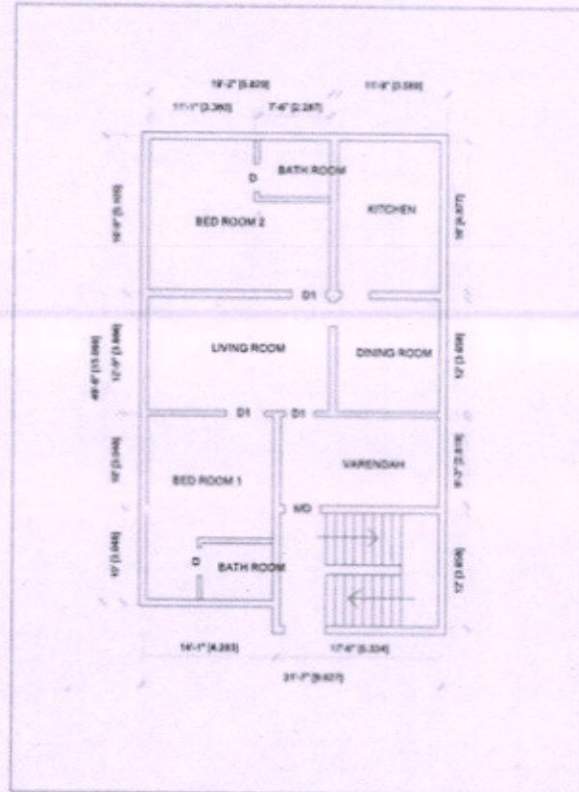

T. MURUGANANDHAM, D.C.E.,
REGISTERED ENGINEER (G-III)
 T.R.M. CONSTRUCTIONS
A.I.R. Complex, Melavaladi, Trichy-621 218
Cell: +91 99521 56613

A.I.R.COMPLEX, J.S GARDEN MELAVALADI POST,
LALGUDI MAIN ROAD, TIRUCHIRAPPALLI DISTRICT -621218.

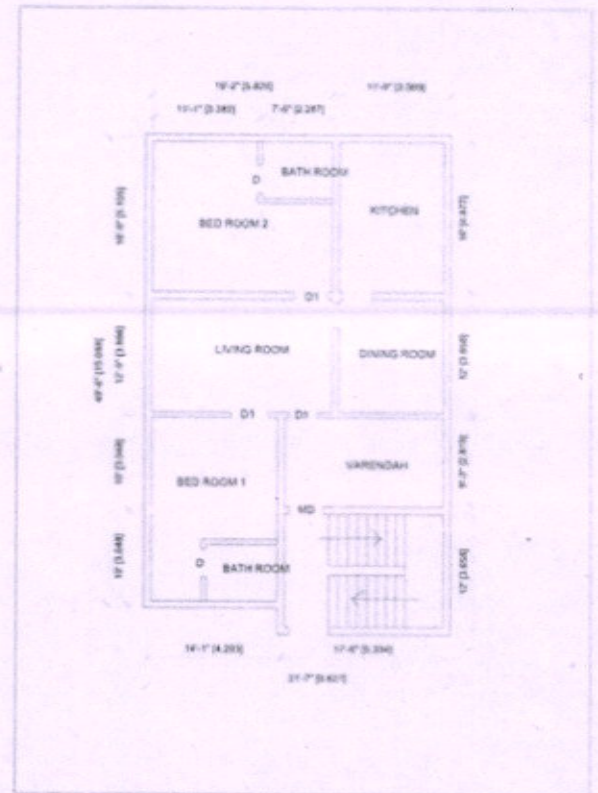

Dr. S. THILAGAVATHI M.E., Ph.D.,
PRINCIPAL
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
Kaikkurichi - 622 303, Pudukkottai Dt.



GROUND FLOOR PLAN



FIRST FLOOR PLAN



SECOND FLOOR PLAN

[Handwritten Signature]
Dr. S. THILAGAVATHI M.E., Ph.D.,
PRINCIPAL

SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
Kaikkurchi - 622 303, Pudukkottai Dt.

[Handwritten Signature]
T. MURUGANANDHAM, D.C.E.,
REGISTERED ENGINEER (G-II)
T.R.M. CONSTRUCTIONS
A.I.R. Complex, Melavaladi, Trichy-621 218
Cell: +91 99521 56613



SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai)

Pudukkottai - Aranthangi Road,
Kaikkurichi, Pudukkottai - 622 303.

Date : 18.11.19.....

To

TRM Construction

A.I.R Complex

Lalkudi Main Road

Trichy-621218

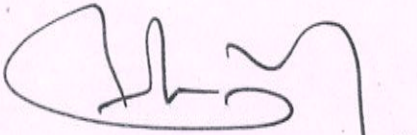
Respected Sir,

Sub: Submission of quotation for consultancy work "Design of Residential Building" – Reg.

Greetings from Sri Bharathi Engineering College for Women !!!

On behalf of our Organization, I would like to extend our appreciation to you for showing interest in our organization regarding consultancy project work. In continuation with your reference letter dated 11.11.2019, we would like to quote the charges for the consultancy work 'Design of a residential building' as Rs.37, 200/- (Rs.8 per sq.ft). We assure to furnish all the details within the stipulated time and as per your requirements.

Thanking you



PRINCIPAL
18/11/19

PRINCIPAL
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
KAIKKURICHI - 622 303.
PUDUKKOTTAI DISTRICT



Dr. S. THILAGAVATHI M.E., Ph.D.,
PRINCIPAL
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
Kaikkurichi - 622 303, Pudukkottai Dt.



TRM CONSTRUCTION

Green Nest Homes

Er. T.MURUGANANDHAM .BE

DATE:21.11.2019

To

The Principal,
Sri Bharathi Engineering College for Women,
Kaikkurichi,
Pudukkottai – 622 303.

Dear Sir/Madam,

With reference to your project work quotation letter dated 18.11.2019, We would like to approve Rs.37,200/- as an endowment towards successful submission of our requirements mentioned in the letter dated 11.11.2019 and the work may be completed within 30 days from the date of this letter. Please contact us if you have any clarifications about the sanctioned endowment work.

100/100

Thanking you

Necessary action may
Please be taken to
Complete the work within
30 days

Engineer
T. MURUGANANDHAM, D.C.E.,
REGISTERED ENGINEER (G-III)
T.R.M. CONSTRUCTIONS
A.I.R. Complex, Melavaladi, Trichy-621 218
Cell: +91 99521 56613

21/11/19
A.I.R.COMPLEX, J.S GARDEN MELAVALADI POST,
LALGUDI MAIN ROAD, TIRUCHIRAPPALLI DISTRICT -621218.

Dr. S.THILAGAVATHI M.E., Ph.D.,
PRINCIPAL
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
Kaikkurchi - 622 303, Pudukkottai Dt.



SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai

Kaikkurichi, Pudukkottai - 622 303.

DEPARTMENT OF CIVIL ENGINEERING

CONSULTANCY PROJECT WORK

REPORT

DESIGN OF RESIDENTIAL BUILDING

SUBMITTED

TO

TRM Construction,

A.I.R Complex,

Lalkudi Main Road,

Trichy-621218

REPORT DATE : 19.12.2019


Dr. S. THILAGAVATHI M.E., Ph.D.,
PRINCIPAL
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
Kaikkurichi - 622 303, Pudukkottai Dt.

CONSULTANCY PROJECT REPORT

As per your requirement, we designed a plan (G+2) which was given by you using STAAD PRO with reinforcement details. We hereby attached a hard copy of it for your reference. Kindly come and collect the original soft copy in person from our institution. In case of any alterations, we will redesign as per your need.

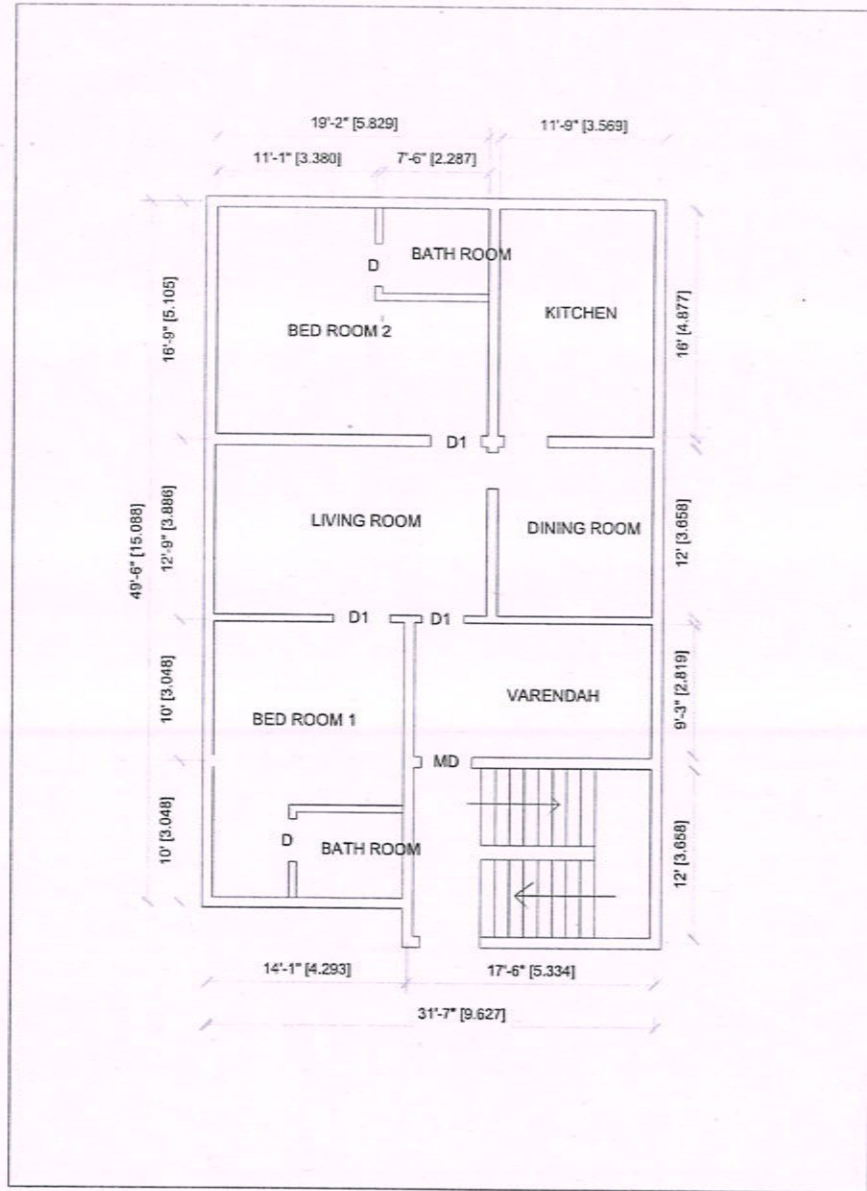
S. Venu
19/12/19
TEST CONDUCTED

R. Jay
19/12/19
HOD / CIVIL
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
KAIKKURICHI,
PUDUKKOTTAI - 622 303

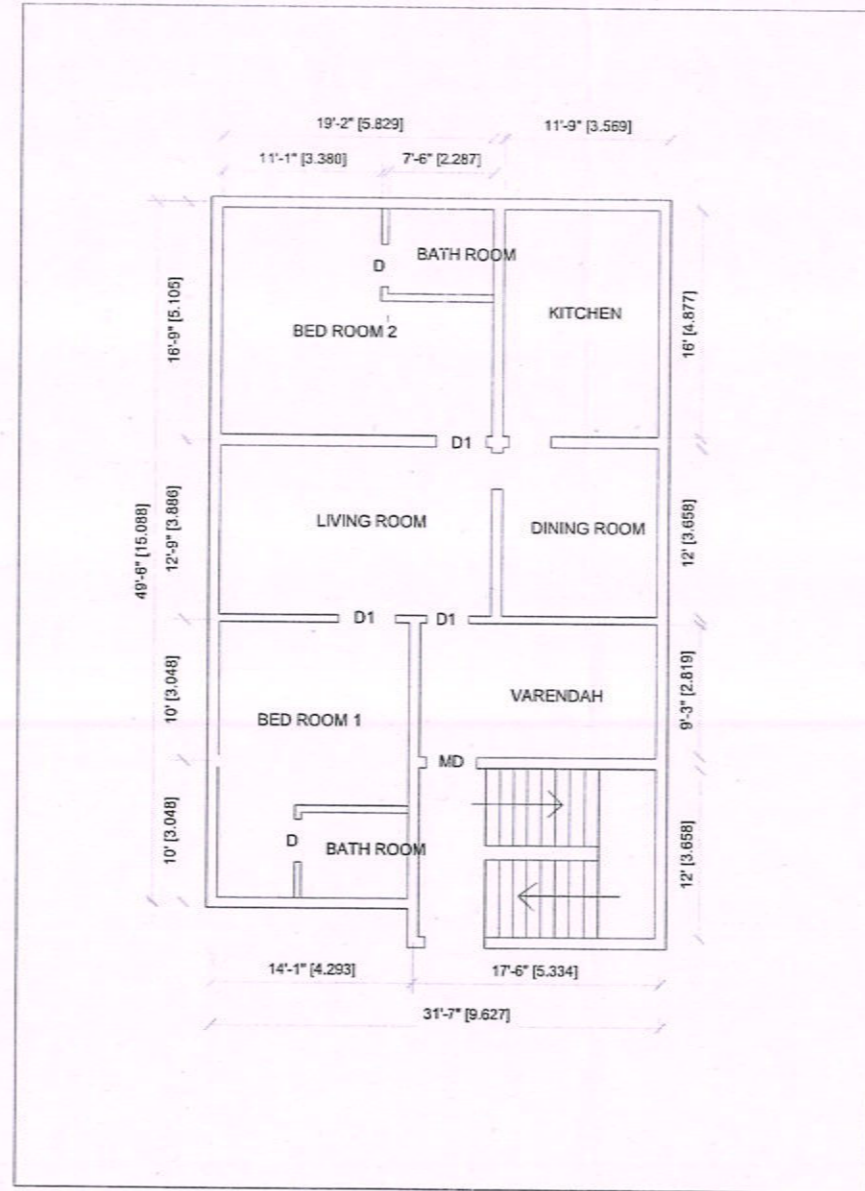
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19/12/19
PRINCIPAL
PRINCIPAL
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
KAIKKURICHI - 622 303.
PUDUKKOTTAI DISTRICT

Received by
T. Jayanthi
19/12/19

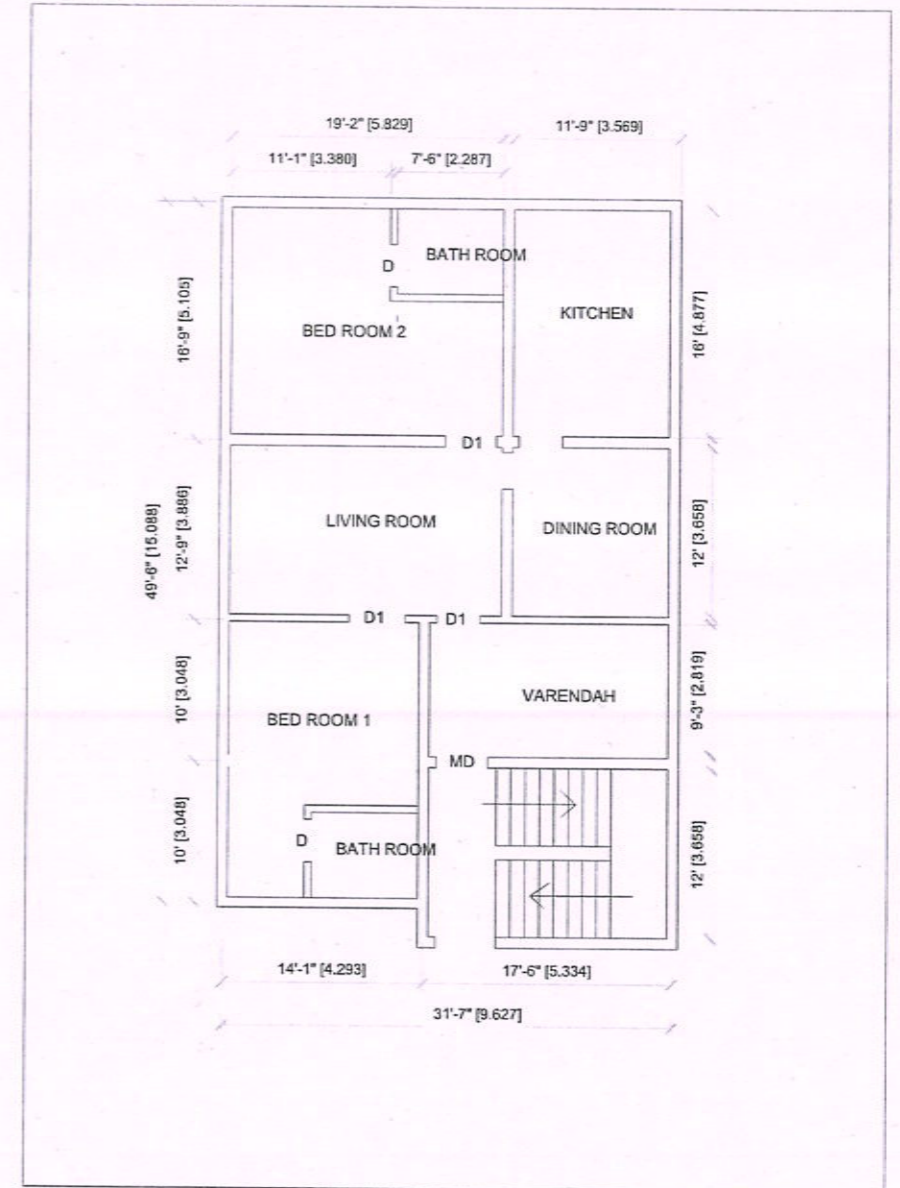
[Signature]
Dr. S. THILAGAVATHI M.E., Ph.D.,
PRINCIPAL
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
Kaikkurchi - 622 303, Pudukkottai Dt.



GROUND FLOOR PLAN



FIRST FLOOR PLAN

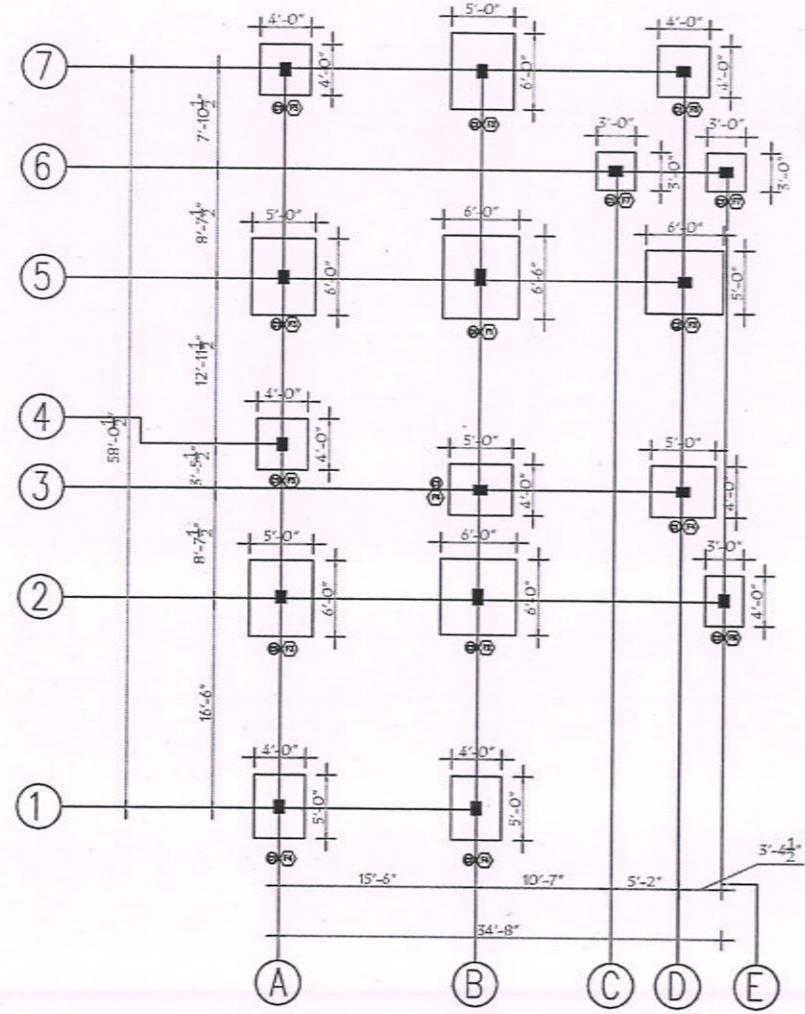


SECOND FLOOR PLAN

[Signature]
Dr. S. THILAGAVATHI M.E., Ph.D.,
 PRINCIPAL
 SRI BHARATHI ENGINEERING
 COLLEGE FOR WOMEN
 Kaikkurchi - 622 303, Pudukkottai Dt.

Received by
[Signature]

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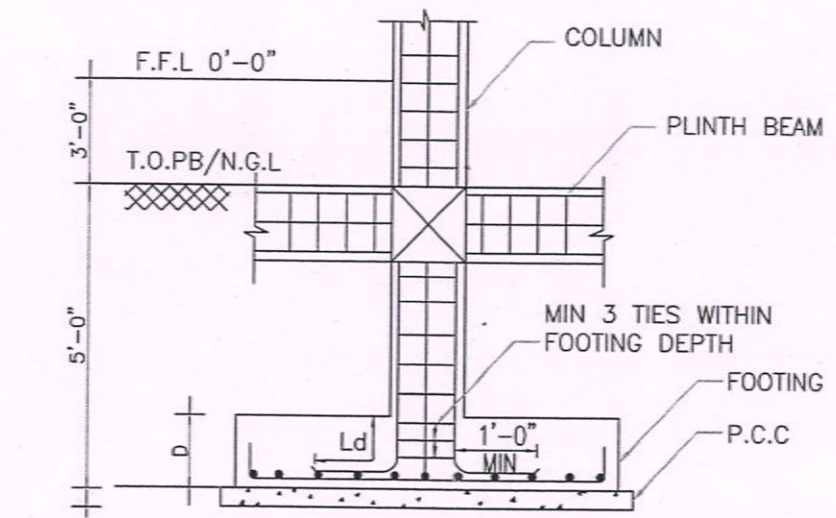


FOOTING LAYOUT

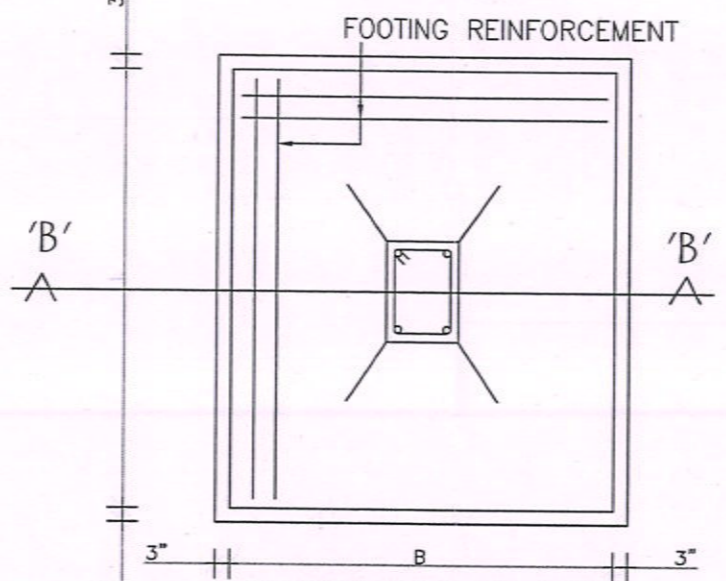
(ALL GRID LINES GIVEN ARE CENTER LINE OF BRICK WALL)

SCHEDULE OF FOOTINGS

TYPE	FOOTING SIZE			FOOTING REINFORCEMENT
	L	B	D	
F1	6'-0"	6'-6"	1'-6"	BOTHWAYS - #16 @ 6"C/C
F2	6'-0"	6'-0"	1'-6"	BOTHWAYS - #12 @ 6"C/C
F3	6'-0"	5'-0"	1'-6"	BOTHWAYS - #12 @ 6"C/C
F4	5'-0"	4'-0"	1'-6"	BOTHWAYS - #12 @ 6"C/C
F5	4'-0"	4'-0"	1'-0"	BOTHWAYS - #12 @ 6"C/C
F6	4'-0"	3'-0"	1'-0"	BOTHWAYS - #12 @ 6"C/C
F7	3'-0"	3'-0"	1'-0"	BOTHWAYS - #12 @ 6"C/C



SECTION B-B



FOOTING PLAN (TYP)

SCHEDULE OF COLUMNS

S.NO	COLUMN TYPE	SIZE	CROSS SECTION	LONGITUDINAL RFT	LATERAL TIES
1.	C1	9"X12"		4 - #16	#8@7"c/c [1Tie]
2.	C2	9"X12"		4 - #16 4 - #12	#8@7"c/c [1Tie]
3.	C3	9"X15"		4 - #20 4 - #16	#8@7"c/c [1Tie]
4.	C4	9"X15"		8 - #20	#8@7"c/c [1Tie]
5.	C5	9"X12"		6 - #16	#8@7"c/c [1Tie]

ISSUED FOR CONSTRUCTION

CLEAR COVER
 FOOTING = 2"
 COLUMN = 1.5"

MINIMUM DEPTH OF EXCAVATION
 5 FEET BELOW THE
 NATURAL GROUND LEVEL

**ALL DIMENSIONS ARE IN
 FEET AND INCHES**

GRADE OF CONCRETE - M20

GRADE OF STEEL- Fe 500

Received by

CLIENT : TRM CONSTRUCTIONS

DESIGNER : SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN
 KAIKURUCHI
 PUDUKKOTTAI

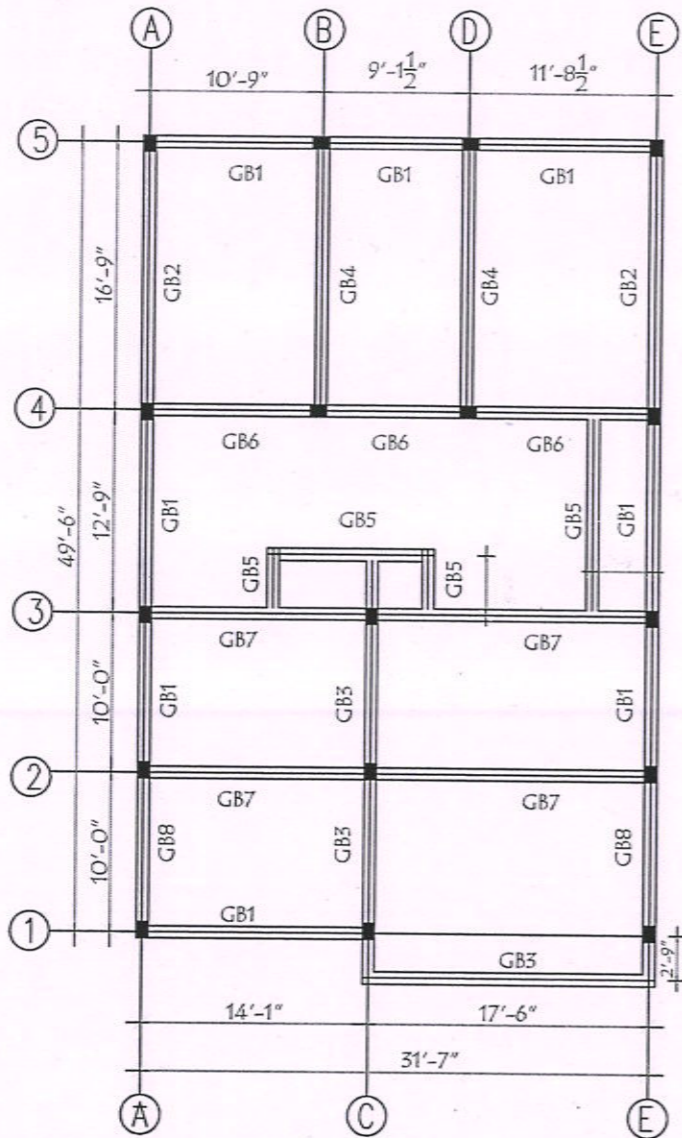
PROJECT : PROPOSED G+2 RESIDENTIAL BUILDING

TITLE : R.C DETAIL OF COLUMNS & FOOTINGS

SCALE : NTS SHEET REV 1 OF 1 00

Dr. S. THILAGAVATHI M.E., Ph.D.,
 PRINCIPAL
 SRI BHARATHI ENGINEERING
 COLLEGE FOR WOMEN

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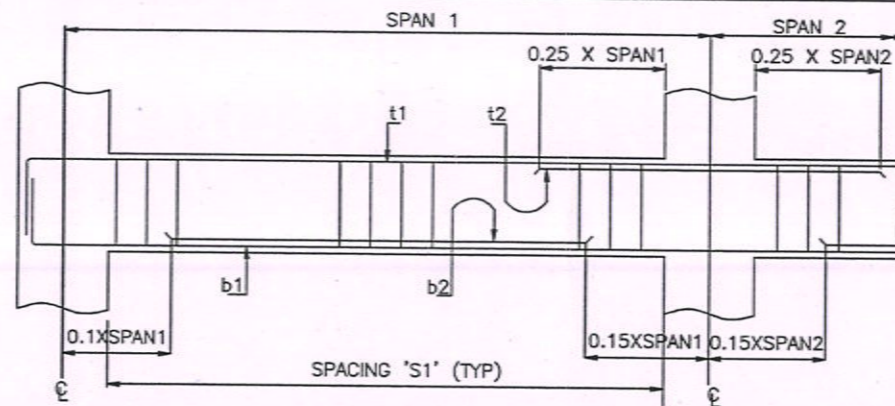
GROUND FLOOR ROOF BEAM LAYOUT
 (ALL GRID LINES GIVEN ARE CENTER LINE OF BRICK WALL)

ALL DIMENSIONS ARE IN FEET AND INCHES

CLEAR COVER = BEAM - 1"

GRADE OF CONCRETE - M20

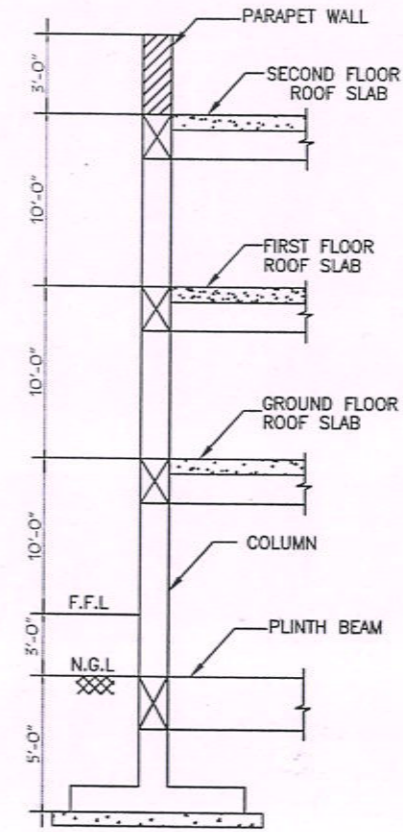
GRADE OF STEEL- Fe 500



TYP LONGITUDINAL SECTION SHOWING BEAM REINFORCEMENT DETAILS

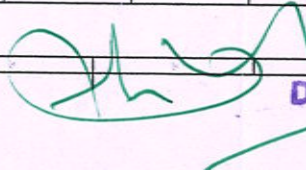
BEAM REINFORCEMENT SCHEDULE

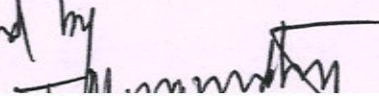
BEAM MARKED	BEAM SIZE		ELEVATION LVL (T.O.C)	BOTTOM RFT (b1)	BOTTOM RFT (b2) EXTRA	TOP RFT (t1)	TOP RFT (t2) EXTRA	STIRRUPS 2 LEGGED	
	WIDTH (W)	DEPTH (D)						LEG-DIA	SPACING S1
GB1	12"	12"	EL.(+)10'-0"	2 - # 12	2 - # 12	2 - # 12	-	# 8	7"
GB2	12"	12"	EL.(+)10'-0"	2 - # 12	2 - # 12	2 - # 12	2 - # 12	# 8	7"
GB3	12"	12"	EL.(+)10'-0"	2 - # 16	-	2 - # 16	-	# 8	7"
GB4	12"	12"	EL.(+)10'-0"	2 - # 16	2 - # 16	2 - # 16	-	# 8	7"
GB5	12"	12"	EL.(+)10'-0"	2 - # 12	-	2 - # 12	-	# 8	7"
GB6	12"	12"	EL.(+)10'-0"	2 - # 12	-	2 - # 12	2 - # 12	# 8	7"
GB7	12"	12"	EL.(+)10'-0"	2 - # 16	2 - # 16	2 - # 16	2 - # 16	# 8	7"
GB8	12"	12"	EL.(+)10'-0"	2 - # 12	-	2 - # 12	2 - # 12	# 8	7"



TYP SECTIONAL ELEVATION FOR COLUMN

REV	DATE	DESCRIPTION	DRAWN	CHECKED	APPROVED
CLIENT :		TRM CONSTRUCTIONS			
CONSULTANT :		SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN KAIKURUCHI PUDUKKOTTAI			
PROJECT :		PROPOSED G + 2 RESIDENTIAL BUILDING			
TITLE :		R.C DETAIL OF GROUND FLOOR ROOF BEAM			
SCALE : NTS					SHEET REV 1 OF 1 00


DR. S. THILAGAVATHI M.E., Ph.D.,
 PRINCIPAL
 SRI BHARATHI ENGINEERING
 COLLEGE FOR WOMEN

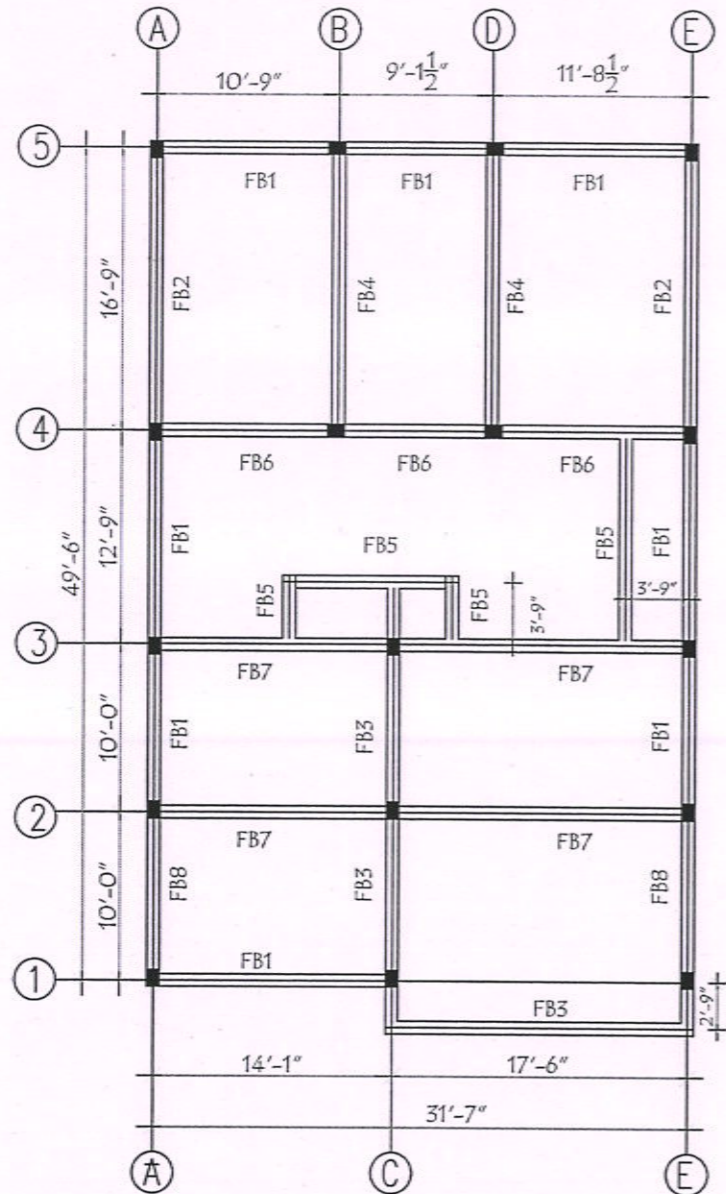
Received by


ALL DIMENSIONS ARE IN FEET AND INCHES

CLEAR COVER = BEAM - 1"

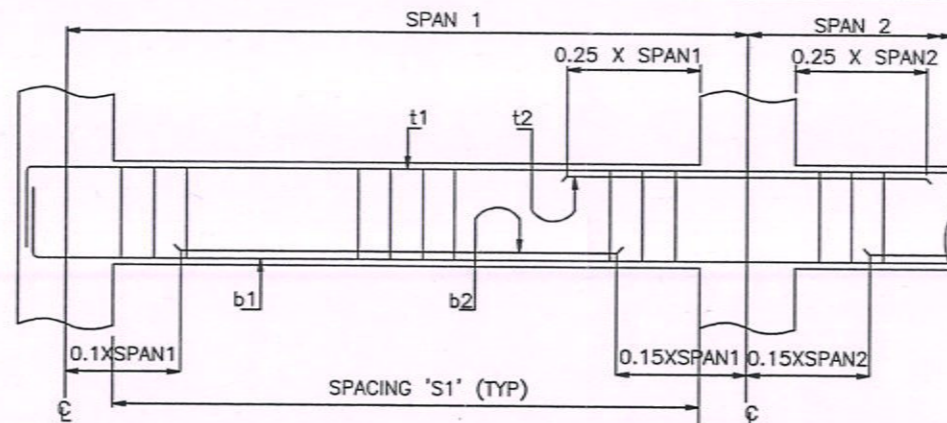
GRADE OF CONCRETE - M20

GRADE OF STEEL - Fe 500



FIRST FLOOR ROOF BEAM LAYOUT

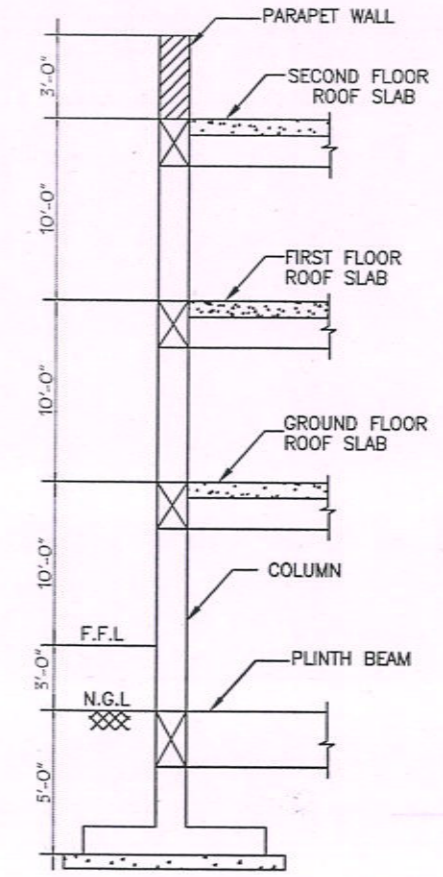
(ALL GRID LINES GIVEN ARE CENTER LINE OF BRICK WALL)



TYP LONGITUDINAL SECTION SHOWING BEAM REINFORCEMENT DETAILS

BEAM REINFORCEMENT SCHEDULE

BEAM MARKED	BEAM SIZE		ELEVATION LVL (T.O.C)	BOTTOM RFT (b1)	BOTTOM RFT (b2) EXTRA	TOP RFT (t1)	TOP RFT (t2) EXTRA	STIRRUPS 2 LEGGED	
	WIDTH (W)	DEPTH (D)						LEG-DIA	SPACING S1
FB1	9"	12"	E.L.(+)20'-0"	2 - # 12	1 - # 12	1 - # 12	-	# 8	7"
FB2	9"	12"	E.L.(+)20'-0"	2 - # 12	1 - # 12	1 - # 12	-	# 8	7"
FB3	9"	12"	E.L.(+)20'-0"	2 - # 16	-	1 - # 16	-	# 8	7"
FB4	9"	12"	E.L.(+)20'-0"	2 - # 16	1 - # 16	1 - # 16	-	# 8	7"
FB5	9"	12"	E.L.(+)20'-0"	2 - # 12	-	1 - # 12	-	# 8	7"
FB6	9"	12"	E.L.(+)20'-0"	2 - # 12	-	1 - # 12	-	# 8	7"
FB7	9"	12"	E.L.(+)20'-0"	2 - # 16	1 - # 16	1 - # 16	-	# 8	7"
FB8	9"	12"	E.L.(+)20'-0"	2 - # 12	-	1 - # 12	-	# 8	7"



TYP SECTIONAL ELEVATION FOR COLUMN

CLIENT : TRM CONSTRUCTIONS

CONSULTANT : SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN
KAIKURUCHI
PUDUKKOTTAI

PROJECT : PROPOSED G + 2 RESIDENTIAL BUILDING

TITLE : R.C DETAIL OF FIRST FLOOR ROOF BEAM

SCALE : NTS

SHEET REV
1 OF 1 00

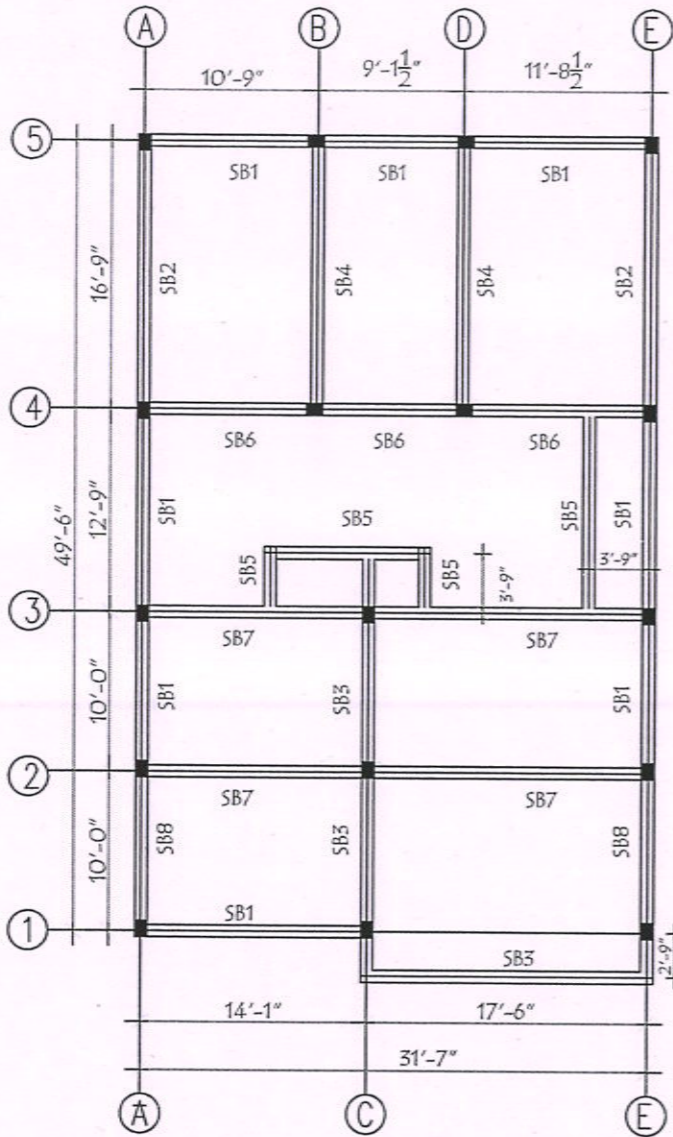
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Dr. S.THILAGAVATHI M.E., Ph.D.,
PRINCIPAL

SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
Kaikkurchi - 622 303, Pudukkottai Dt.

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SECOND FLOOR ROOF BEAM LAYOUT

(ALL GRID LINES GIVEN ARE CENTER LINE OF BRICK WALL)

Dr. S. THILAGAVATHI M.E., Ph.D.
 PRINCIPAL

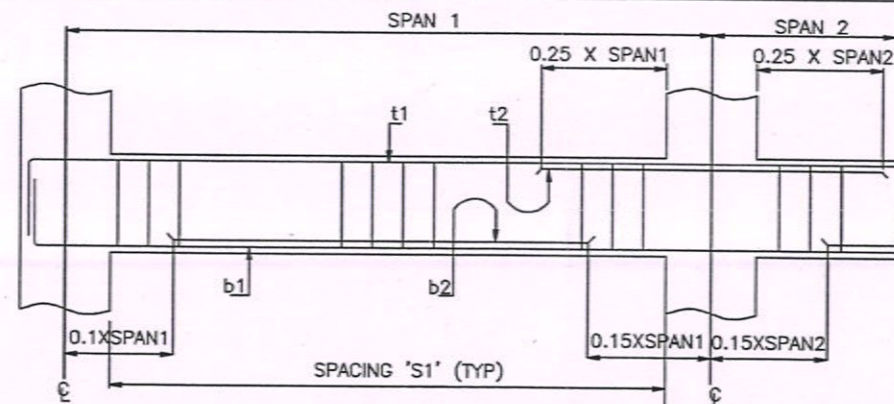
SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN
 Kaikkurchi - 622 303, Pudukkottai Dt.

ALL DIMENSIONS ARE IN FEET AND INCHES

CLEAR COVER = BEAM - 1"

GRADE OF CONCRETE - M20

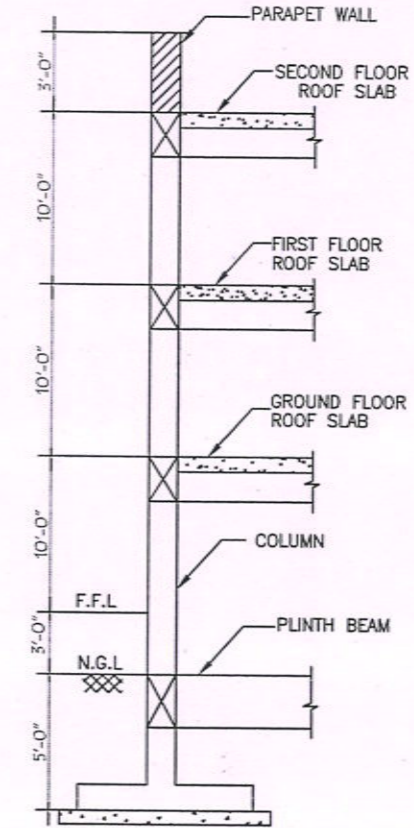
GRADE OF STEEL - Fe 500



TYP LONGITUDINAL SECTION SHOWING BEAM REINFORCEMENT DETAILS

BEAM REINFORCEMENT SCHEDULE

BEAM MARKED	BEAM SIZE		ELEVATION LVL (T.O.C)	BOTTOM RFT (b1)	BOTTOM RFT (b2) EXTRA	TOP RFT (t1)	TOP RFT (t2) EXTRA	STIRRUPS 2 LEGGED	
	WIDTH (W)	DEPTH (D)						LEG-DIA	SPACING S1
SB1	9"	12"	E.L.(+)'30'-0"	2 - # 12	1 - # 12	1 - # 12	-	# 8	7"
SB2	9"	12"	E.L.(+)'30'-0"	2 - # 12	1 - # 12	1 - # 12	-	# 8	7"
SB3	9"	12"	E.L.(+)'30'-0"	2 - # 16	-	1 - # 16	-	# 8	7"
SB4	9"	12"	E.L.(+)'30'-0"	2 - # 16	1 - # 16	1 - # 16	-	# 8	7"
SB5	9"	12"	E.L.(+)'30'-0"	2 - # 12	-	1 - # 12	-	# 8	7"
SB6	9"	12"	E.L.(+)'30'-0"	2 - # 12	-	1 - # 12	-	# 8	7"
SB7	9"	12"	E.L.(+)'30'-0"	2 - # 16	1 - # 16	1 - # 16	-	# 8	7"
SB8	9"	12"	E.L.(+)'30'-0"	2 - # 12	-	1 - # 12	-	# 8	7"



TYP SECTIONAL ELEVATION FOR COLUMN

CLIENT : TRM CONSTRUCTIONS

CONSULTANT : SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN
KAIKURUCHI
PUDUKKOTTAI

PROJECT : PROPOSED G + 2 RESIDENTIAL BUILDING

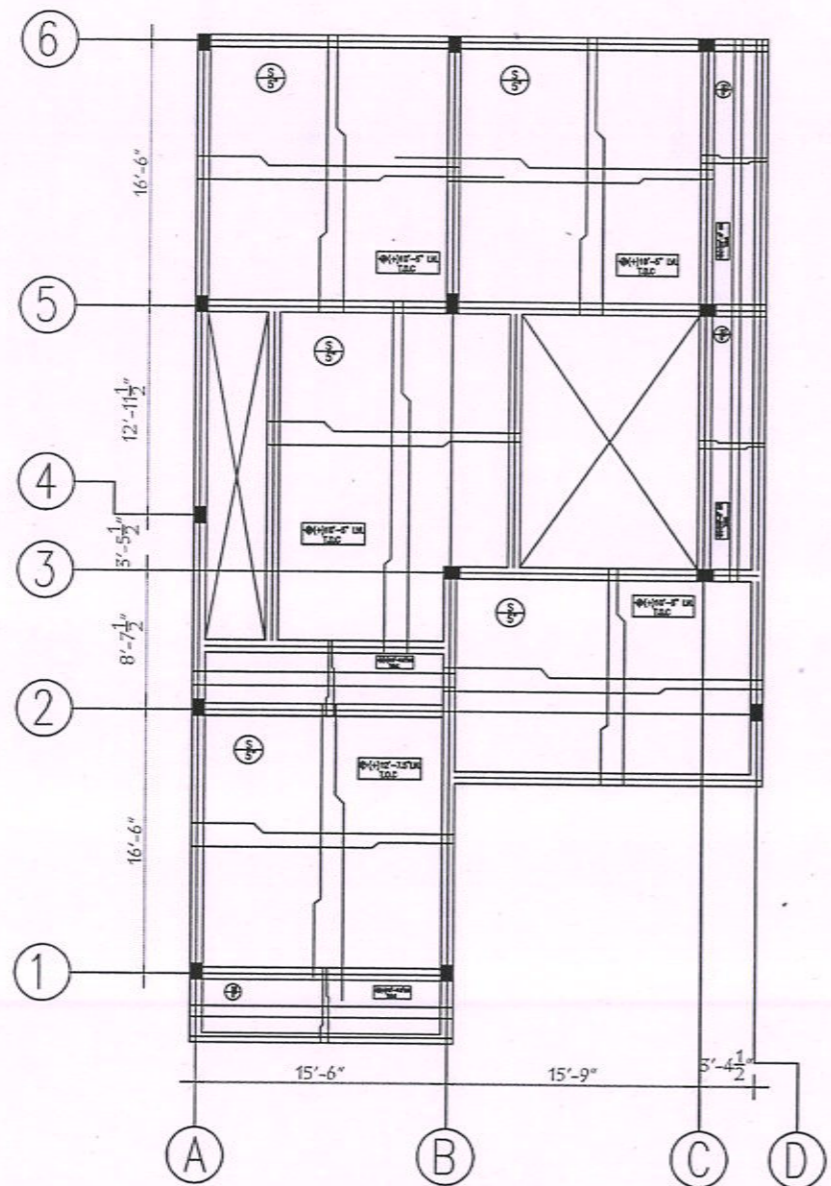
TITLE : R.C DETAIL OF SECOND FLOOR ROOF BEAM

SCALE : NTS

SHEET REV
1 OF 1 00

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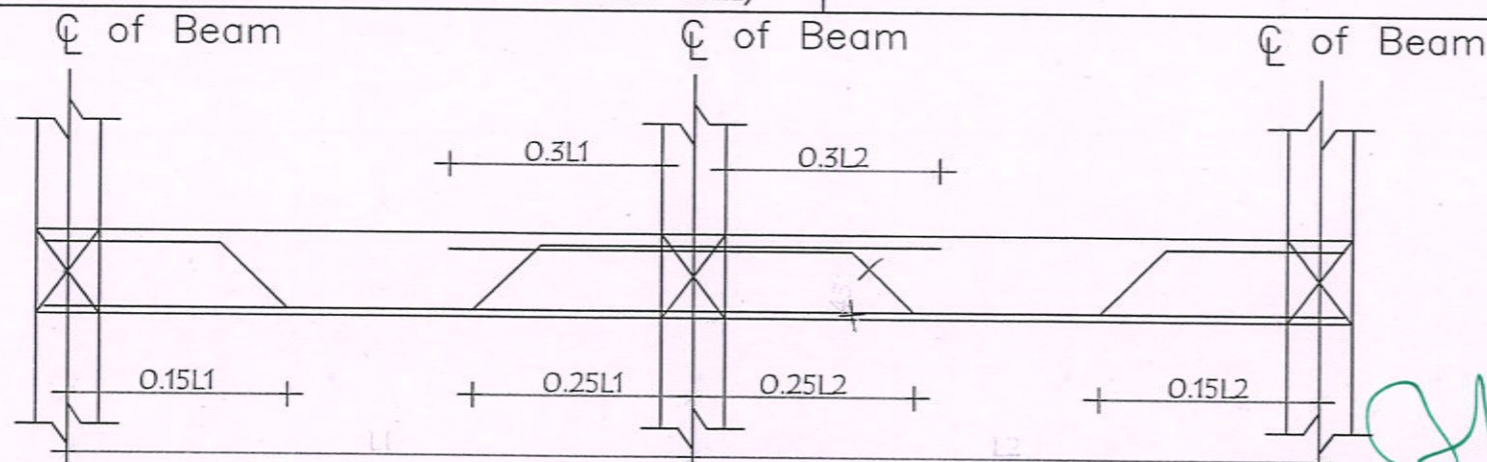


SLAB LAYOUT

(ALL GRID LINES GIVEN ARE CENTER LINE OF BRICK WALL)

SCHEDULE OF SLAB

NAME	SLAB TYPE	REINFORCEMENT
(S)	TWOWAY SLAB	# 10 @ 7" C\C - BOTH WAYS
(S1)	ONEWAY SLAB	# 10 @ 7" C\C - BOTH WAYS



SLAB CRANK DETAIL (TYP)

ISSUED FOR CONSTRUCTION

ALL LEVELS ARE FOLLOWED FROM F.F.L

ALL DIMENSIONS ARE IN FEET AND INCHES

CLEAR COVER = SLAB - 3/4"

GRADE OF CONCRETE - M20

GRADE OF STEEL- Fe 500

CLIENT : TRM CONSTRUCTIONS
 CONSULTANT : SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN
 KAIKURUCHI
 PUDUKKOTTAI

PROJECT : PROPOSED G + 2 RESIDENTIAL BUILDING

TITLE : R.C DETAIL OF ROOF SLAB FOR GF

Dr. S. THILAGAVATHI M.E., Ph.D.
 PRINCIPAL

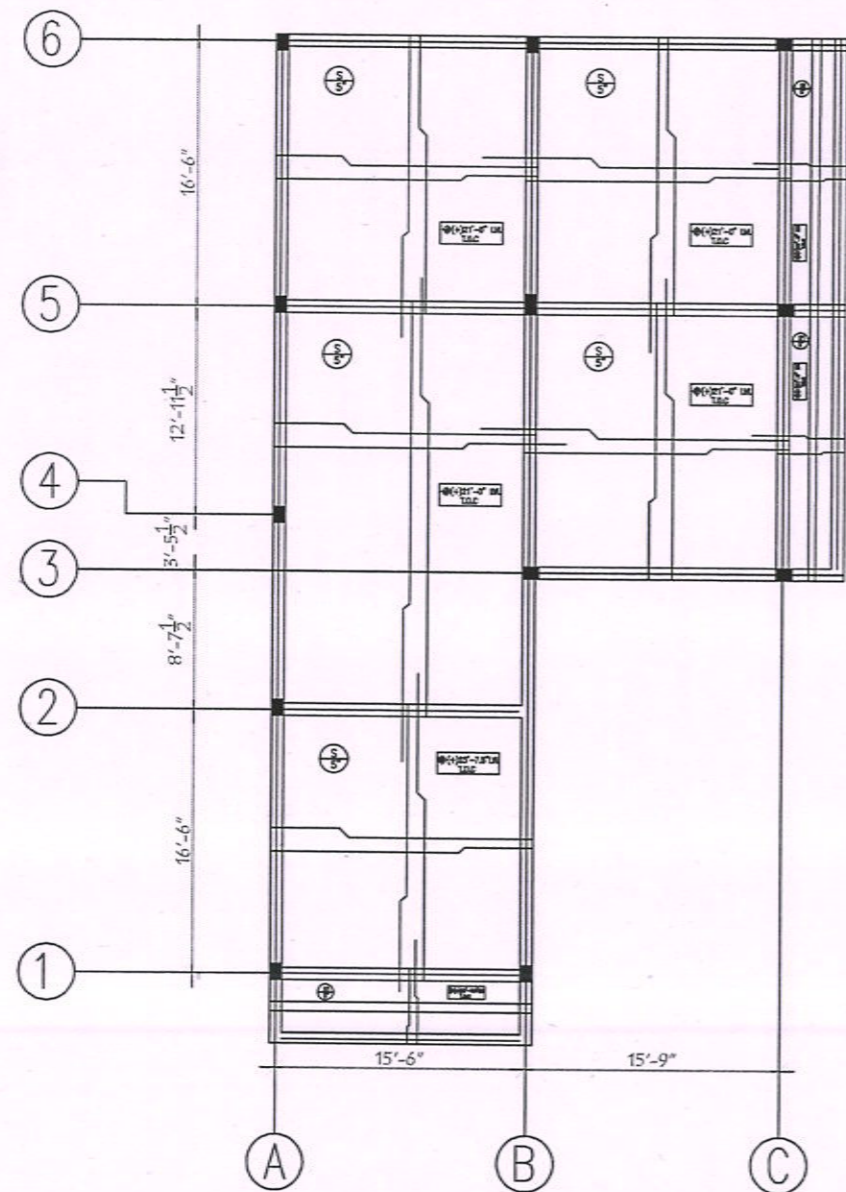
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 Kaikkurchi - 622 303, Pudukkottai Dt.

SCALE : NTS

SHEET REV
 1 OF 1 00

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[Signature]

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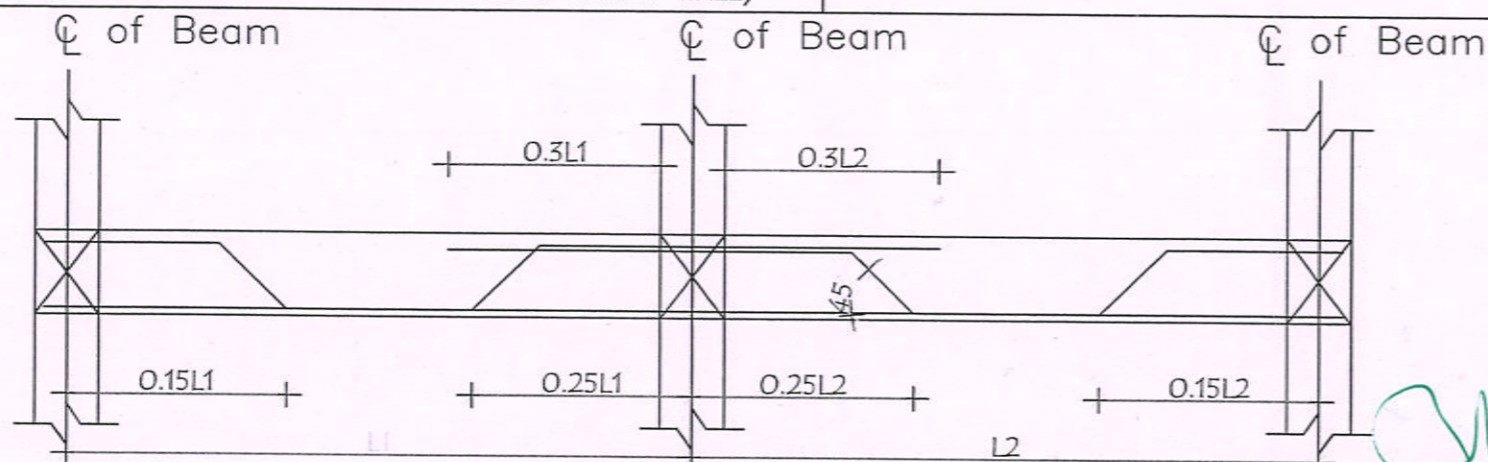


SLAB LAYOUT

(ALL GRID LINES GIVEN ARE CENTER LINE OF BRICK WALL)

SCHEDULE OF SLAB

NAME	SLAB TYPE	REINFORCEMENT
S	TWOWAY SLAB	# 10 @ 7" C\C - BOTH WAYS
S1	ONEWAY SLAB	# 10 @ 7" C\C - BOTH WAYS



SLAB CRANK DETAIL (TYP)

ISSUED FOR CONSTRUCTION

ALL LEVELS ARE FOLLOWED FROM F.F.L

ALL DIMENSIONS ARE IN FEET AND INCHES

CLEAR COVER = SLAB - 3/4"

GRADE OF CONCRETE - M20

GRADE OF STEEL- Fe 500

CLIENT : TRM CONSTRUCTIONS
 CONSULTANT : SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN
 KAIKURUCHI
 PUDUKKOTTAI

PROJECT : PROPOSED G + 2 RESIDENTIAL BUILDING

TITLE : R.C DETAIL OF ROOF SLAB FOR FF& SF

SCALE : NTS

SHEET REV
1 OF 1 00

Dr. S. THILAGAVATHI M.E., Ph.D.
 PRINCIPAL
 SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN
 Kaikkurchi - 622 303, Pudukkottai Dt.

Received by



SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai)

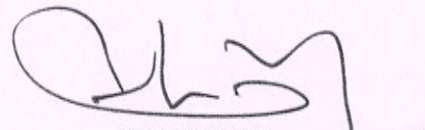
Pudukkottai - Aranthangi Road,
Kaikkurichi, Pudukkottai - 622 303.

Date : 23.12.19.....

UTILISATION CERTIFICATE

Certified that an amount of **Rs. 37,200/- (thirty seven thousand two hundred only)** sanctioned during the year **2019** in favor of civil engineering received from **TRM Construction** has been utilized for the project consultancy work titled **"Design of Residential Building"**. The purpose for which it was sanctioned has been duly fulfilled and delivered as per the conditions of the grant.


23/12/19
PROJECT INVESTIGATOR


PRINCIPAL
23/12/19

PRINCIPAL
SRI BHARATHI ENGINEERING
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