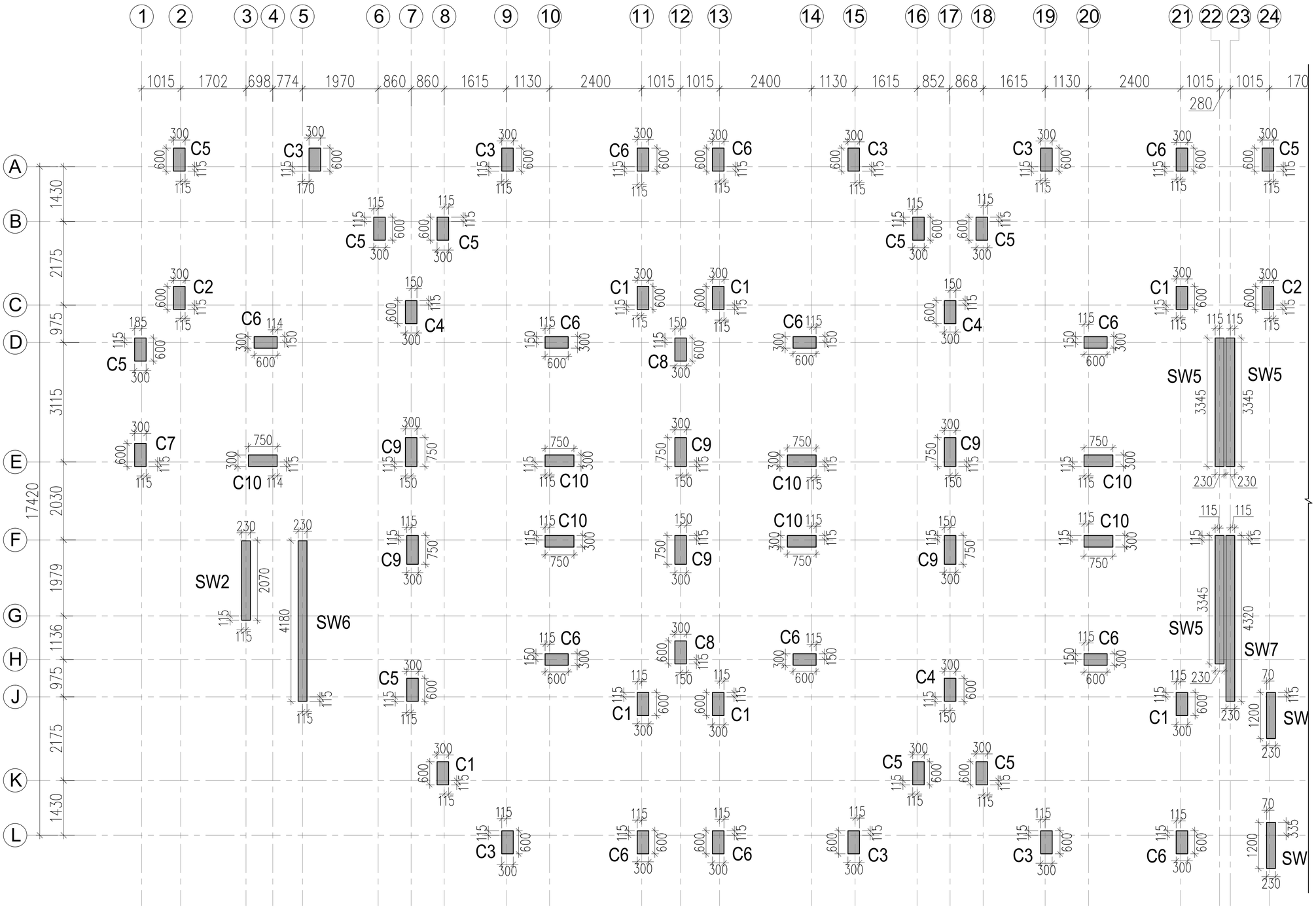


COLUMN/SHEAR WALL LAYOUT PLAN (BLOCK-E)

GENERAL NOTES: –

1. READ THIS DRAWING IN CONJUNCTION WITH RELEVANT ARCHITECTURAL DRAWINGS. ANY DISCREPANCY IF FOUND SHALL BE BROUGHT TO THE NOTICE OF CONSULTANT.
2. ALL DIMENSIONS & LEVELS ARE IN MILIMETERS.
3. DO NOT SCALE ANY DIMENSION.
4. CONFIRM LOCATION OF WALLS WITH RELEVANT ARCH. DRGS.
5. THE REINFORCEMENT SHALL BE HYSD. FE–550(SD) BARS HAVING YIELD STRENGTH NOT LESS THAN 550 N/mm² & CONFORMING TO I.S. 1786 – 2008.
6. GRADE OF CONCRETE SHALL BE AS FOLLOWS: –
   (a) FOUNDATION : M–30
   (b) COLUMN/S.W. : M–30
   (c) BEAM : M–30
   (d) SLAB : M–30
   (e) R.C.C WALL : M–30
7. THE CLEAR COVER TO THE REINFORCEMENT SHALL BE AS FOLLOWS: –
   (a) FOUNDATION : 75 MM (BOTTOM) & 50 MM (TOP)
   (b) COLUMN : 40 MM
   (c) BEAM : 25 MM
   (d) SLAB : 20 MM
   (e) R.C.C WALL : 30 MM

   NOMINAL COVER IS THE DEPTH OF CONCRETE COVER TO ALL STEEL REINFORCEMENT INCLUDING LINKS/ TIES/ STIRRUPS.
8. NOT MORE THAN 50% OF THE BARS SHALL BE LAPPED AT ANY SECTION. LAPS CLOSE TO THE MID SPAN IN BOTTOM BARS & CLOSE TO SUPPORTS IN TOP BARS SHALL BE AVOIDED.
9. ---------- INDICATES BOTTOM BARS
   ———— INDICATES TOP BARS
   OPENING IN STRUCTURAL ELEMENT
   P.C.C WORK
   BRICK WORK
10. ALL R.C.C. TO BE MACHINE MIXED, VIBRATED AND CURED THOROUGHLY AS PER I.S 456–LATEST.
11. ALL FOOTING ARE CENTRALY PLACED WITH RESPECTED TO THE CENTER LINE OF COLUMN.
12. REINFORCEMENT SHALL BE PROVIDED IN TWO LAYERS WHEREVER FOUND NECESSARY WITH SPACER BAR TO BE PROVIDED BETWEEN TWO LAYERS OF REINFORCEMENTS AS PER IS: 456. SPACER BARS @ 1.0m
13. ALL DIMENSIONS MUST BE CHECKED WITH ARCHITECT'S DRGS.& IN CASE OF ANY DISCRIPANCY ARCHITECTS DRGS. SHALL PREVAIL.
14. ALL CONSTRUCTION JOINTS SHALL BE APROVED BY CONSULTANT ON THE BASIS OF SCHEME PREPARED BY CONTRACTOR.
15. TOP AND BOTTON EXTRA BARS IN BEAMS TO EXTEND BEYOND THE FACE OF SUPPORT AS SHOWN IN DRG UNLESS OTHERWISE SHOWN.
16. THE FIRST STIRRUPS IN BEAMS SHALL BE AT A DISTANCE OF 50MM FROM THE JOINT FACE THE SPECIAL CONFINING REINFORCEMENT SHALL BE PROVIDED THROUGH THE JOINT AT THE GIVEN SPACING IN COLUMNS.
17. All ANGLES ARE RIGHT ANGLES UNLESS OTHERWISE SPECIFIED.
18. PROVIDE DIST STEEL OVER EXTRA TOP BARS IS: 8ϕ@200 c/c (8") ——o——
19. ALL LOOSE POCKETS OF SOIL BELOW FOUNDATION SHALL BE FILLED WITH P.C.C.1:4:8.

REV.NO.	DATE	REVISION
R0	15–02–2025	FOR SUBMISSION

OWNER/DEVELOPER:

APNA GHAR BUILDWELL PVT. LTD.
290, NAYA–BASS, ALWAR RAJASTHAN
Alwar Office: C/O PHOOL BAGH SERVICE STATION
NEAR CIRCUIT HOUSE, ALWAR Tel. 0144–3241400

PROJECT:

REVISED BUILDING PLAN AT KHASRA NO : –205,206,207, 208,209,210/679,216,217,218,215/693,215/699 AT VILLAGE TAPUKARA, TEH.–TIJARA, TIJARA ROAD, DISTT.–ALWAR (RAJ.)

DRAWING TITLE: COLUMN/SHEAR WALL LAYOUT PLAN (BLOCK–E)

DWG NO. ST–01

DRAWN BY: –	M.S	SCALE: –	N.T.S
DESIGN BY: –	S.A	DATE: –	15–02–2025
CHECK BY: –	R.K	PROJECT NO: –	4743

ARCHITECTS:

CREATIVE STUDIO
AR. MANSINGH MEENA
317, THIRD FLOOR, KRISH SQUARE, OPP. MODERN PUBLIC SCHOOL, BHAGAT SINGH COLONY, BHIWADI, ALWAR (RAJ.)
Web.–www.csbhiwadi.com, Email id–info@csbhiwadi.com
MOB: – 09460478315, PH: – 01493–491200

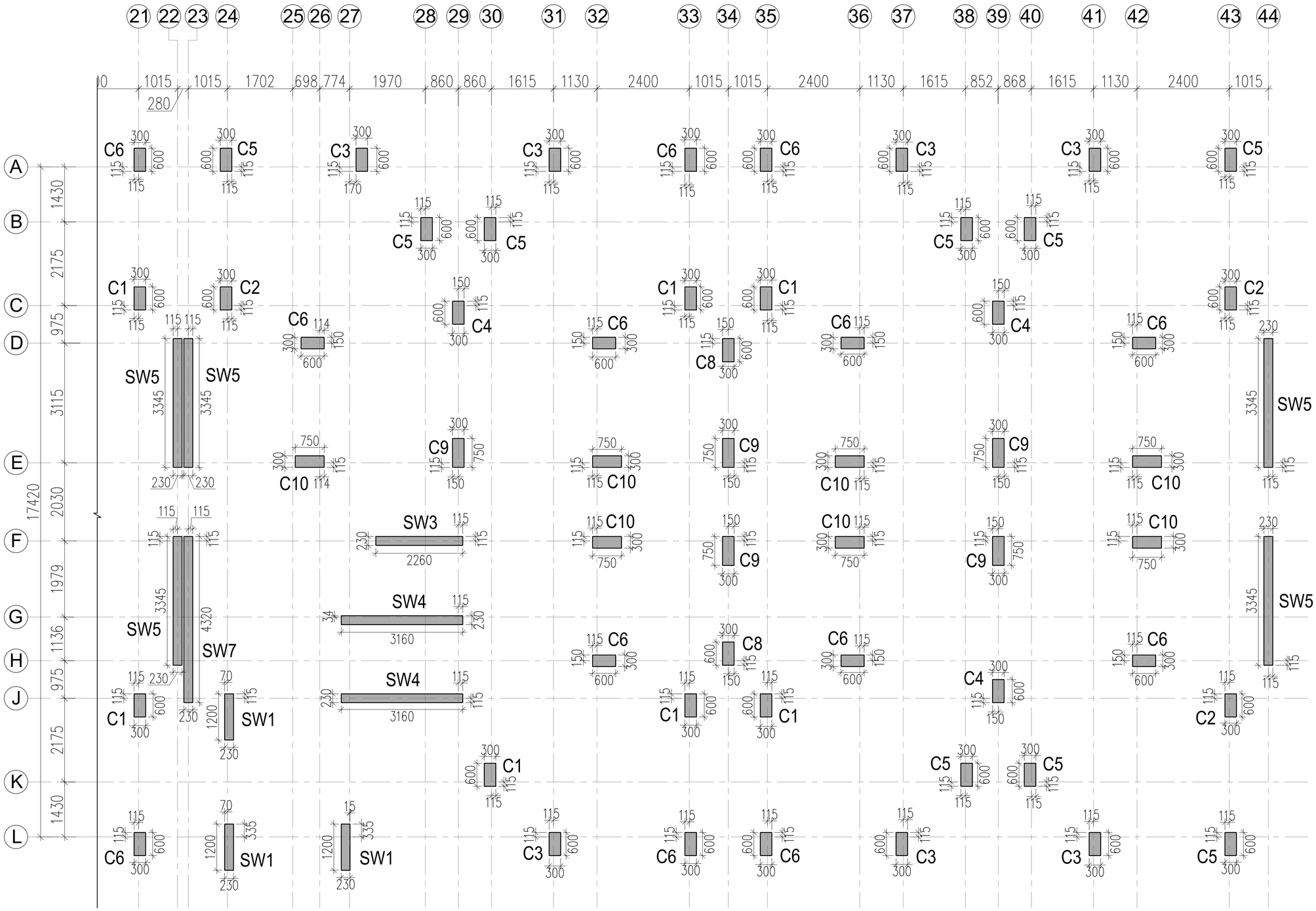
STRUCTURAL CONSULTANT:

RELIABLE CONSULTING ENGINEERS
87, SECTOR –30, GURGAON–122001, HARYANA
Email–rce8730@gmail.com

Rakesh 17.2.2025
Rakesh Kumar
B.E. (Civil), M.S. (Structures)
Chartered Engineer
FIE-1293156, FIV-17032
Reliable Consulting Engineers
87, Sector-30, Gurugram (HR.)

DRAWING RELEASED FOR:

☐ APPROVAL ■ SUBMISSION
☐ ADVANCE COPY ☐ CONSTRUCTION



COLUMN/SHEAR WALL LAYOUT PLAN (BLOCK-E)

Rakesh Kumar 17.2.2025
B.E. (Civil), M.S. (Structures)
Chartered Engineer
FIE-1293156, FIV-17032
Reliable Consulting Engineers
87, Sector-30, Gurugram (HR.)

GENERAL NOTES:-

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   (e) R.C.C WALL : M-30
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17. All ANGLES ARE RIGHT ANGLES UNLESS OTHERWISE SPECIFIED.
18. PROVIDE DIST STEEL OVER EXTRA TOP BARS IS: 8ϕ@200 c/c (8") ——o——
19. ALL LOOSE POCKETS OF SOIL BELOW FOUNDATION SHALL BE FILLED WITH P.C.C.1:4:8.

REV.NO.	DATE	REVISION
R0	15-02-2025	FOR SUBMISSION

OWNER/DEVELOPER:

APNA GHAR BUILDWELL PVT. LTD.
290, NAYA-BASS, ALWAR RAJASTHAN
Alwar Office: C/O PHOOL BAGH SERVICE STATION
NEAR CIRCUIT HOUSE, ALWAR Tel. 0144-3241400

PROJECT:

REVISED BUILDING PLAN AT KHASRA NO :-205,206,207, 208,209,210/679,216,217,218,215/693,215/699 AT VILLAGE TAPUKARA, TEH.-TIJARA, TIJARA ROAD, DISTT.-ALWAR (RAJ.)

DRAWING TITLE: COLUMN/SHEAR WALL LAYOUT PLAN (BLOCK-E)

DWG NO. ST-02

DRAWN BY:-	M.S	SCALE:-	N.T.S
DESIGN BY:-	S.A	DATE:-	15-02-2025
CHECK BY:-	R.K	PROJECT NO:-	4743

ARCHITECTS:

CREATIVE STUDIO
AR. MANSINGH MEENA
317, THIRD FLOOR, KRISH SQUARE, OPP. MODERN PUBLIC SCHOOL, BHAGAT SINGH COLONY, BHIWADI, ALWAR (RAJ.)
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STRUCTURAL CONSULTANT:

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Email-rce8730@gmail.com

DRAWING RELEASED FOR:

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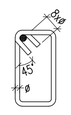
☐ ADVANCE COPY ☐ CONSTRUCTION

COLUMN SCHEDULE

MARK LEVEL												
TERMINATION TO 9TH FLOOR LVL.	COL. SIZE	TIES	300x600	G1	300x600	G1	300x600	G1	300x600	G1	300x600	G1	300x600	G1
	VERTICAL REINF.		A= 6–12ø B= 4–12ø C= 4–12ø		A= 6–12ø B= 4–12ø C= 4–12ø		A= 6–12ø B= 4–12ø C= 4–12ø		A= 6–16ø B= 4–12ø C= 4–12ø		A= 6–16ø B= 4–16ø C= 4–12ø		A= 6–16ø B= 4–16ø C= 4–16ø	
	CONCRETE GRADE		M–30		M–30		M–30		M–30		M–30		M–30	
	REFER SECTION		1		1		1		1		1		1	
9TH FLOOR LVL. TO 7TH FLOOR LVL.	COL. SIZE	TIES	300x600	G1	300x600	G1	300x600	G1	300x600	G1	300x600	G1	300x600	G1
	VERTICAL REINF.		A= 6–12ø B= 4–12ø C= 4–12ø		A= 6–12ø B= 4–12ø C= 4–12ø		A= 6–16ø B= 4–12ø C= 4–12ø		A= 6–16ø B= 4–16ø C= 4–12ø		A= 6–16ø B= 4–16ø C= 4–16ø		A= 6–20ø B= 4–16ø C= 4–16ø	
	CONCRETE GRADE		M–30		M–30		M–30		M–30		M–30		M–30	
	REFER SECTION		1		1		1		1		1		1	
7TH FLOOR LVL. TO 5TH FLOOR LVL.	COL. SIZE	TIES	300x600	G1	300x600	G1	300x600	G1	300x600	G1	300x600	G1	300x600	G1
	VERTICAL REINF.		A= 6–12ø B= 4–12ø C= 4–12ø		A= 6–16ø B= 4–12ø C= 4–12ø		A= 6–16ø B= 4–16ø C= 4–12ø		A= 6–16ø B= 4–16ø C= 4–16ø		A= 6–20ø B= 4–16ø C= 4–16ø		A= 6–20ø B= 4–20ø C= 4–16ø	
	CONCRETE GRADE		M–30		M–30		M–30		M–30		M–30		M–30	
	REFER SECTION		1		1		1		1		1		1	
5TH FLOOR LVL. TO 3RD FLOOR LVL.	COL. SIZE	TIES	300x600	G1	300x600	G1	300x600	G1	300x600	G1	300x600	G1	300x600	G1
	VERTICAL REINF.		A= 6–16ø B= 4–12ø C= 4–12ø		A= 6–16ø B= 4–16ø C= 4–12ø		A= 6–16ø B= 4–16ø C= 4–16ø		A= 6–20ø B= 4–16ø C= 4–16ø		A= 6–20ø B= 4–20ø C= 4–16ø		A= 6–20ø B= 4–20ø C= 4–20ø	
	CONCRETE GRADE		M–30		M–30		M–30		M–30		M–30		M–30	
	REFER SECTION		1		1		1		1		1		1	
3RD FLOOR LVL. TO 1ST FLOOR LVL.	COL. SIZE	TIES	300x600	G1	300x600	G1	300x600	G1	300x600	G1	300x600	G1	300x600	G1
	VERTICAL REINF.		A= 6–16ø B= 4–16ø C= 4–12ø		A= 6–16ø B= 4–16ø C= 4–16ø		A= 6–20ø B= 4–16ø C= 4–16ø		A= 6–20ø B= 4–20ø C= 4–16ø		A= 6–20ø B= 4–20ø C= 4–20ø		A= 6–25ø B= 4–20ø C= 4–20ø	
	CONCRETE GRADE		M–30		M–30		M–30		M–30		M–30		M–30	
	REFER SECTION		1		1		1		1		1		1	
1ST FLOOR LVL. TO FOUNDATION LVL.	COL. SIZE	TIES	300x600	G1	300x600	G1	300x600	G1	300x600	G1	300x600	G1	300x600	G1
	VERTICAL REINF.		A= 6–16ø B= 4–16ø C= 4–16ø		A= 6–20ø B= 4–16ø C= 4–16ø		A= 6–20ø B= 4–16ø C= 4–16ø		A= 6–20ø B= 4–20ø C= 4–20ø		A= 6–25ø B= 4–20ø C= 4–20ø		A= 6–25ø B= 4–25ø C= 4–20ø	
	CONCRETE GRADE		M–30		M–30		M–30		M–30		M–30		M–30	
	REFER SECTION		1		1		1		1		1		1	
REMARK	DESCRIPTION		C1		C2		C3		C4		C5		C6	

TIES GROUP SCHEDULE

G1	ZONE (A)	X	10ø@100c/c
		Y	8ø@100c/c
	ZONE (B)	X	10ø@200c/c
		Y	8ø@200c/c



TYPICAL CLOSED HOOK DETAIL

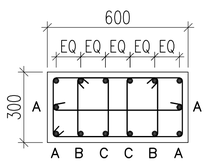
TYPICAL OPEN HOOK DETAIL

LAP LENGTH FOR Fe–550 & M–30 IN TENSION ZONE

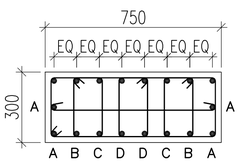
DIA OF BAR	LENGTH IN mm
25	1250
20	1000
16	800
12	600
10	500
8	400

LAP LENGTH FOR Fe–550 & M–30 IN COMPRESSION ZONE

DIA OF BAR	LENGTH IN mm
25	1000
20	800
16	640
12	480
10	400
8	320



(SEC: –1)



(SEC: –2)

Rakesh Kumar 17.2.2025
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Chartered Engineer
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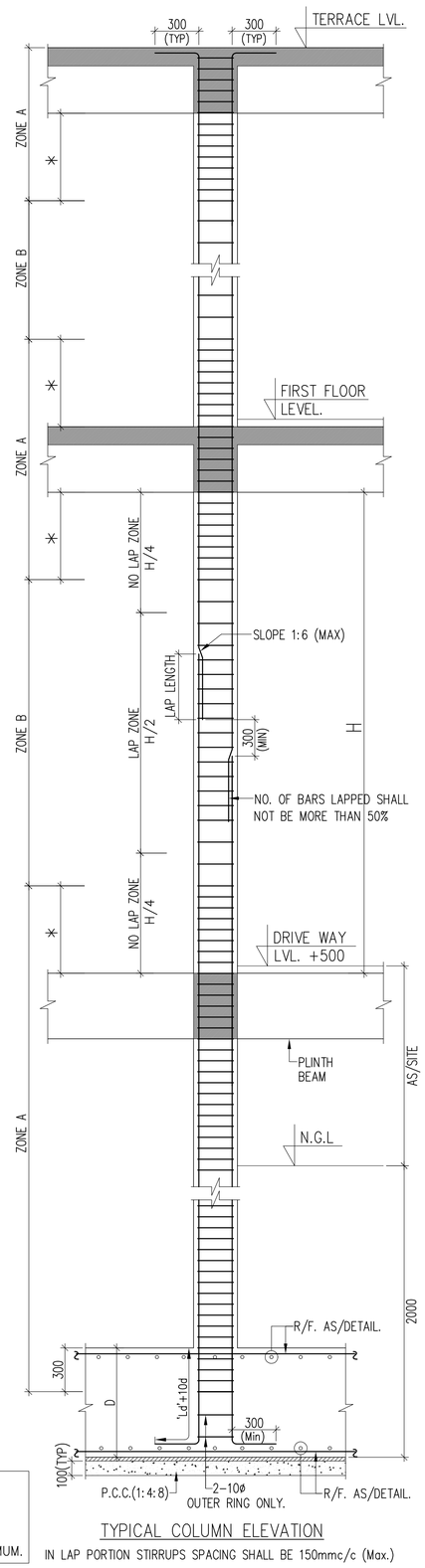

TYPICAL COLUMN ELEVATION

IN LAP PORTION STIRRUPS SPACING SHALL BE 150mmc/c (Max.)

* = H/6 OR LARGEST DIM. OF COLUMN, OR 450 MM, WHICHEVER IS MAXIMUM.

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   (d) SLAB : M–30
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REV.NO.	DATE	REVISION
R0	15–02–2025	FOR SUBMISSION

OWNER/DEVELOPER:

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290, NAYA–BASS, ALWAR RAJASTHAN
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DRAWING TITLE: COLUMN SCHEDULE & DETAILS (BLOCK–E)

DWG NO. ST–03

DRAWN BY: –	M.S	SCALE: –	N.T.S
DESIGN BY: –	S.A	DATE: –	15–02–2025
CHECK BY: –	R.K	PROJECT NO: –	4743

ARCHITECTS:

CREATIVE STUDIO
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STRUCTURAL CONSULTANT:

RELIABLE CONSULTING ENGINEERS
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Email–rce8730@gmail.com

DRAWING RELEASED FOR:

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☐ ADVANCE COPY ☐ CONSTRUCTION

COLUMN SCHEDULE

MARK LEVEL					
TERMINATION TO 9TH FLOOR LVL.	COL. SIZE (TIES G1)	300x600 G1	300x600 G1	300x750 G1	300x750 G1
	VERTICAL REINF.	A= 6–16ø B= 4–12ø C= 4–12ø	A= 6–20ø B= 4–16ø C= 4–16ø	A= 6–16ø B= 4–16ø C= 4–12ø D= 4–12ø	A= 6–16ø B= 4–16ø C= 4–12ø D= 4–12ø
	CONCRETE GRADE	M–30	M–30	M–30	M–30
	REFER SECTION	1	1	2	2
9TH FLOOR LVL. TO 7TH FLOOR LVL.	COL. SIZE (TIES G1)	300x600 G1	300x600 G1	300x750 G1	300x750 G1
	VERTICAL REINF.	A= 6–16ø B= 4–16ø C= 4–12ø	A= 6–20ø B= 4–20ø C= 4–16ø	A= 6–16ø B= 4–16ø C= 4–12ø D= 4–12ø	A= 6–16ø B= 4–16ø C= 4–12ø D= 4–12ø
	CONCRETE GRADE	M–30	M–30	M–30	M–30
	REFER SECTION	1	1	2	2
7TH FLOOR LVL. TO 5TH FLOOR LVL.	COL. SIZE (TIES G1)	300x600 G1	300x600 G1	300x750 G1	300x750 G1
	VERTICAL REINF.	A= 6–16ø B= 4–16ø C= 4–16ø	A= 6–20ø B= 4–20ø C= 4–20ø	A= 6–16ø B= 4–16ø C= 4–16ø D= 4–16ø	A= 6–16ø B= 4–16ø C= 4–16ø D= 4–16ø
	CONCRETE GRADE	M–30	M–30	M–30	M–30
	REFER SECTION	1	1	2	2
5TH FLOOR LVL. TO 3RD FLOOR LVL.	COL. SIZE (TIES G1)	300x600 G1	300x600 G1	300x750 G1	300x750 G1
	VERTICAL REINF.	A= 6–20ø B= 4–16ø C= 4–16ø	A= 6–25ø B= 4–20ø C= 4–20ø	A= 6–20ø B= 4–16ø C= 4–16ø D= 4–16ø	A= 6–20ø B= 4–16ø C= 4–16ø D= 4–16ø
	CONCRETE GRADE	M–30	M–30	M–30	M–30
	REFER SECTION	1	1	2	2
3RD FLOOR LVL. TO 1ST FLOOR LVL.	COL. SIZE (TIES G1)	300x600 G1	300x600 G1	300x750 G1	300x750 G1
	VERTICAL REINF.	A= 6–20ø B= 4–16ø C= 4–16ø	A= 6–25ø B= 4–20ø C= 4–20ø	A= 6–20ø B= 4–20ø C= 4–16ø D= 4–16ø	A= 6–20ø B= 4–20ø C= 4–20ø D= 4–16ø
	CONCRETE GRADE	M–30	M–30	M–30	M–30
	REFER SECTION	1	1	2	2
1ST FLOOR LVL. TO FOUNDATION LVL.	COL. SIZE (TIES G1)	300x600 G1	300x600 G1	300x750 G1	300x750 G1
	VERTICAL REINF.	A= 6–20ø B= 4–16ø C= 4–16ø	A= 6–25ø B= 4–20ø C= 4–20ø	A= 6–20ø B= 4–20ø C= 4–20ø D= 4–16ø	A= 6–25ø B= 4–20ø C= 4–20ø D= 4–20ø
	CONCRETE GRADE	M–30	M–30	M–30	M–30
	REFER SECTION	1	1	2	2
REMARK	DESCRIPTION	C7	C8	C9	C10

TIES GROUP SCHEDULE

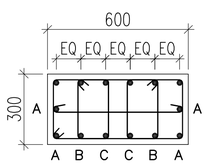
G1	ZONE (A)	X	10ø@100c/c
		Y	8ø@100c/c
	ZONE (B)	X	10ø@200c/c
		Y	8ø@200c/c

LAP LENGTH FOR Fe–550 & M–30 IN TENSION ZONE

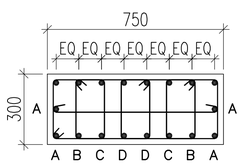
DIA OF BAR	LENGTH IN mm
25	1250
20	1000
16	800
12	600
10	500
8	400

LAP LENGTH FOR Fe–550 & M–30 IN COMPRESSION ZONE

DIA OF BAR	LENGTH IN mm
25	1000
20	800
16	640
12	480
10	400
8	320

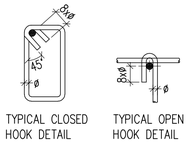


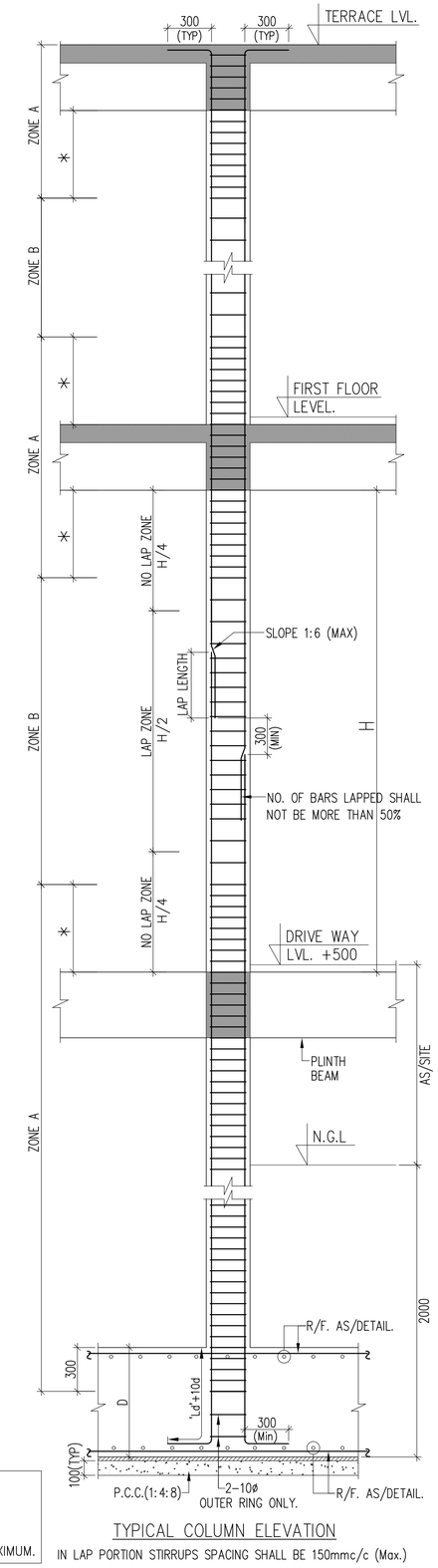
(SEC: –1)



(SEC: –2)

Rakesh Kumar 17.2.2025
B.E. (Civil), M.S. (Structures)
Chartered Engineer
FIE-1293156, FIV-17032
Reliable Consulting Engineers
87, Sector-30, Gurugram (HR.)





TYPICAL COLUMN ELEVATION
IN LAP PORTION STIRRUPS SPACING SHALL BE 150mmc/c (Max.)

* = H/6 OR LARGEST DIM. OF COLUMN, OR 450 MM, WHICHEVER IS MAXIMUM.

GENERAL NOTES: –

1. READ THIS DRAWING IN CONJUNCTION WITH RELEVANT ARCHITECTURAL DRAWINGS. ANY DISCREPANCY IF FOUND SHALL BE BROUGHT TO THE NOTICE OF CONSULTANT.
2. ALL DIMENSIONS & LEVELS ARE IN MILIMETERS.
3. DO NOT SCALE ANY DIMENSION.
4. CONFIRM LOCATION OF WALLS WITH RELEVANT ARCH. DRGS.
5. THE REINFORCEMENT SHALL BE HYSD. FE–550(SD) BARS HAVING YIELD STRENGTH NOT LESS THAN 550 N/mm² & CONFORMING TO I.S. 1786 – 2008.
6. GRADE OF CONCRETE SHALL BE AS FOLLOWS: –
   (a) FOUNDATION : M–30
   (b) COLUMN/S.W. : M–30
   (c) BEAM : M–30
   (d) SLAB : M–30
   (e) R.C.C WALL : M–30
7. THE CLEAR COVER TO THE REINFORCEMENT SHALL BE AS FOLLOWS: –
   (a) FOUNDATION : 75 MM (BOTTOM) & 50 MM (TOP)
   (b) COLUMN : 40 MM
   (c) BEAM : 25 MM
   (d) SLAB : 20 MM
   (e) R.C.C WALL : 30 MM

   NOMINAL COVER IS THE DEPTH OF CONCRETE COVER TO ALL STEEL REINFORCEMENT INCLUDING LINKS/ TIES/ STIRRUPS.
8. NOT MORE THAN 50% OF THE BARS SHALL BE LAPPED AT ANY SECTION. LAPS CLOSE TO THE MID SPAN IN BOTTOM BARS & CLOSE TO SUPPORTS IN TOP BARS SHALL BE AVOIDED.
9. ---------- INDICATES BOTTOM BARS
   ———— INDICATES TOP BARS
   OPENING IN STRUCTURAL ELEMENT
   P.C.C WORK
   BRICK WORK
10. ALL R.C.C. TO BE MACHINE MIXED, VIBRATED AND CURED THOROUGHLY AS PER I.S 456–LATEST.
11. ALL FOOTING ARE CENTRALY PLACED WITH RESPECTED TO THE CENTER LINE OF COLUMN.
12. REINFORCEMENT SHALL BE PROVIDED IN TWO LAYERS WHEREVER FOUND NECESSARY WITH SPACER BAR TO BE PROVIDED BETWEEN TWO LAYERS OF REINFORCEMENTS AS PER IS: 456. SPACER BARS @ 1.0m
13. ALL DIMENSIONS MUST BE CHECKED WITH ARCHITECT'S DRGS.& IN CASE OF ANY DISCRIPANCY ARCHITECTS DRGS. SHALL PREVAIL.
14. ALL CONSTRUCTION JOINTS SHALL BE APROVED BY CONSULTANT ON THE BASIS OF SCHEME PREPARED BY CONTRACTOR.
15. TOP AND BOTTON EXTRA BARS IN BEAMS TO EXTEND BEYOND THE FACE OF SUPPORT AS SHOWN IN DRG UNLESS OTHERWISE SHOWN.
16. THE FIRST STIRRUPS IN BEAMS SHALL BE AT A DISTANCE OF 50MM FROM THE JOINT FACE THE SPECIAL CONFINING REINFORCEMENT SHALL BE PROVIDED THROUGH THE JOINT AT THE GIVEN SPACING IN COLUMNS.
17. All ANGLES ARE RIGHT ANGLES UNLESS OTHERWISE SPECIFIED.
18. PROVIDE DIST STEEL OVER EXTRA TOP BARS IS: 8ø@200 c/c (8") ——o——
19. ALL LOOSE POCKETS OF SOIL BELOW FOUNDATION SHALL BE FILLED WITH P.C.C.1:4:8.

REV.NO.	DATE	REVISION
R0	15–02–2025	FOR SUBMISSION

OWNER/DEVELOPER:
APNA GHAR BUILDWELL PVT. LTD.
290, NAYA–BASS, ALWAR RAJASTHAN
Alwar Office: C/O PHOOL BAGH SERVICE STATION
NEAR CIRCUIT HOUSE, ALWAR Tel. 0144–3241400

PROJECT:
REVISED BUILDING PLAN AT KHASRA NO : –205,206,207, 208,209,210/679,216,217,218,215/693,215/699 AT VILLAGE TAPUKARA, TEH.–TIJARA, TIJARA ROAD, DISTT.–ALWAR (RAJ.)

DRAWING TITLE: COLUMN SCHEDULE & DETAILS (BLOCK–E)
DWG NO. ST–04

DRAWN BY: –	M.S	SCALE: –	N.T.S
DESIGN BY: –	S.A	DATE: –	15–02–2025
CHECK BY: –	R.K	PROJECT NO: –	4743

ARCHITECTS:
CREATIVE STUDIO
AR. MANSINGH MEENA
317, THIRD FLOOR, KRISH SQUARE, OPP. MODERN PUBLIC SCHOOL, BHAGAT SINGH COLONY, BHIWADI, ALWAR (RAJ.)
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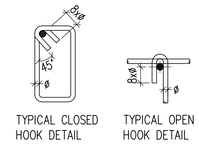
STRUCTURAL CONSULTANT:
RELIABLE CONSULTING ENGINEERS
87, SECTOR –30, GURGAON–122001, HARYANA
Email–rce8730@gmail.com

DRAWING RELEASED FOR:
☐ APPROVAL ■ SUBMISSION
☐ ADVANCE COPY ☐ CONSTRUCTION

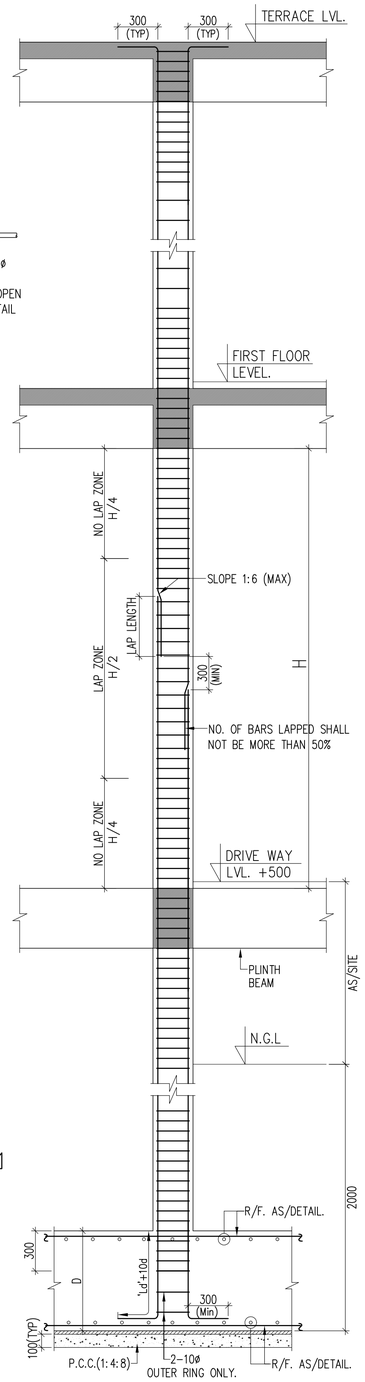
SHEAR WALL SCHEDULE

MARK LEVEL								
TERMINATION TO 9TH FLOOR LVL.	S.W. SIZE (TIES)	230x1200 G3	230x2070 G3	230x2260 G3	230x3160 G3	230x3345 G3	230x4180 G3	230x4320 G3
	VERTICAL REINF.	A= 8–12ø B= 4–12ø C= 4–10ø	A= 8–16ø B= 8–12ø C= 8–12ø D= 8–10ø	A= 8–12ø B= 8–12ø C= 4–12ø D= 8–10ø	A= 8–12ø B= 8–12ø C= 4–12ø D= 8–12ø E=10–10ø	A=20–12ø B=12–12ø C=12–12ø D= 2–10ø	A=20–12ø B=12–12ø C=12–12ø D= 8–12ø E= 2–12ø	A=12–16ø B=12–12ø C= 8–12ø D= 8–12ø E=12–12ø
	CONCRETE GRADE	M–30	M–30	M–30	M–30	M–30	M–30	M–30
	REFER SECTION	3	4A	5A	6A	7B	8B	9A
9TH FLOOR LVL. TO 7TH FLOOR LVL.	S.W. SIZE (TIES)	230x1200 G3	230x2070 G3	230x2260 G3	230x3160 G3	230x3345 G3	230x4180 G3	230x4320 G3
	VERTICAL REINF.	A= 8–12ø B= 4–12ø C= 4–10ø	A= 8–16ø B= 8–16ø C= 8–12ø D= 8–10ø	A= 8–12ø B= 8–12ø C= 4–12ø D= 8–10ø	A= 8–16ø B= 8–12ø C= 4–12ø D= 8–12ø E=10–10ø	A=20–16ø B=12–12ø C=12–12ø D= 2–10ø	A=20–16ø B=12–12ø C=12–12ø D= 8–12ø E= 2–12ø	A=12–16ø B=12–16ø C= 8–12ø D= 8–12ø E=12–12ø
	CONCRETE GRADE	M–30	M–30	M–30	M–30	M–30	M–30	M–30
	REFER SECTION	3	4A	5A	6A	7B	8B	9A
7TH FLOOR LVL. TO 5TH FLOOR LVL.	S.W. SIZE (TIES)	230x1200 G3	230x2070 G3	230x2260 G3	230x3160 G3	230x3345 G3	230x4180 G3	230x4320 G3
	VERTICAL REINF.	A= 8–12ø B= 4–12ø C= 4–10ø	A= 8–16ø B= 8–16ø C= 8–16ø D= 8–10ø	A= 8–16ø B= 8–12ø C= 4–12ø D= 8–10ø	A= 8–16ø B= 8–16ø C= 4–12ø D= 8–12ø E=10–10ø	A=20–16ø B=12–16ø C=12–12ø D= 2–10ø	A=20–16ø B=12–16ø C=12–12ø D= 8–12ø E= 2–12ø	A=12–20ø B=12–16ø C= 8–16ø D= 8–12ø E=12–12ø
	CONCRETE GRADE	M–30	M–30	M–30	M–30	M–30	M–30	M–30
	REFER SECTION	3	4A	5A	6A	7B	8B	9A
5TH FLOOR LVL. TO 3RD FLOOR LVL.	S.W. SIZE (TIES)	230x1200 G3	230x2070 G3	230x2260 G3	230x3160 G3	230x3345 G3	230x4180 G3	230x4320 G3
	VERTICAL REINF.	A= 8–12ø B= 4–12ø C= 4–10ø	A= 8–20ø B= 8–16ø C= 8–16ø D= 8–10ø	A= 8–16ø B= 8–16ø C= 4–12ø D= 8–10ø	A= 8–16ø B= 8–16ø C= 4–16ø D= 8–16ø E=10–10ø	A=20–20ø B=12–16ø C=12–12ø D= 2–10ø	A=20–20ø B=12–16ø C=12–12ø D= 8–12ø E= 2–12ø	A=12–20ø B=12–20ø C= 8–16ø D= 8–12ø E=12–12ø
	CONCRETE GRADE	M–30	M–30	M–30	M–30	M–30	M–30	M–30
	REFER SECTION	3	4A	5A	6A	7B	8B	9A
3RD FLOOR LVL. TO 1ST FLOOR LVL.	S.W. SIZE (TIES)	230x1200 G3	230x2070 G3	230x2260 G3	230x3160 G3	230x3345 G3	230x4180 G3	230x4320 G3
	VERTICAL REINF.	A= 8–16ø B= 4–12ø C= 4–10ø	A= 8–20ø B= 8–20ø C= 8–16ø D= 8–10ø	A= 8–16ø B= 8–16ø C= 8–16ø D= 8–10ø	A= 8–20ø B= 8–20ø C= 8–16ø D=12–16ø E=10–10ø	A=20–20ø B=20–20ø C=12–12ø D= 2–10ø	A=20–20ø B=20–20ø C=12–16ø D= 8–12ø E= 2–12ø	A=12–20ø B=12–20ø C=12–20ø D=16–20ø E=12–12ø
	CONCRETE GRADE	M–30	M–30	M–30	M–30	M–30	M–30	M–30
	REFER SECTION	3	4A	5	6	7A	8A	9
1ST FLOOR LVL. TO FOUNDATION LVL.	S.W. SIZE (TIES)	230x1200 G3	230x2070 G2	230x2260 G3	230x3160 G3	230x3345 G3	230x4180 G2	230x4320 G3
	VERTICAL REINF.	A= 8–16ø B= 4–16ø C= 4–10ø	A= 8–20ø B= 8–20ø C= 8–20ø D=18–16ø	A= 8–20ø B= 8–16ø C= 8–16ø D= 8–10ø	A= 8–20ø B= 8–20ø C= 8–20ø D=12–20ø E=10–12ø	A=20–20ø B=20–20ø C=20–20ø D= 2–10ø	A=20–20ø B=20–20ø C=20–20ø D=16–20ø E= 6–20ø	A=12–20ø B=12–20ø C=12–20ø D=16–20ø E=12–12ø
	CONCRETE GRADE	M–30	M–30	M–30	M–30	M–30	M–30	M–30
	REFER SECTION	3	4	5	6	7	8	9
REMARK	DESCRIPTION	SW1	SW2	SW3	SW4	SW5	SW6	SW7



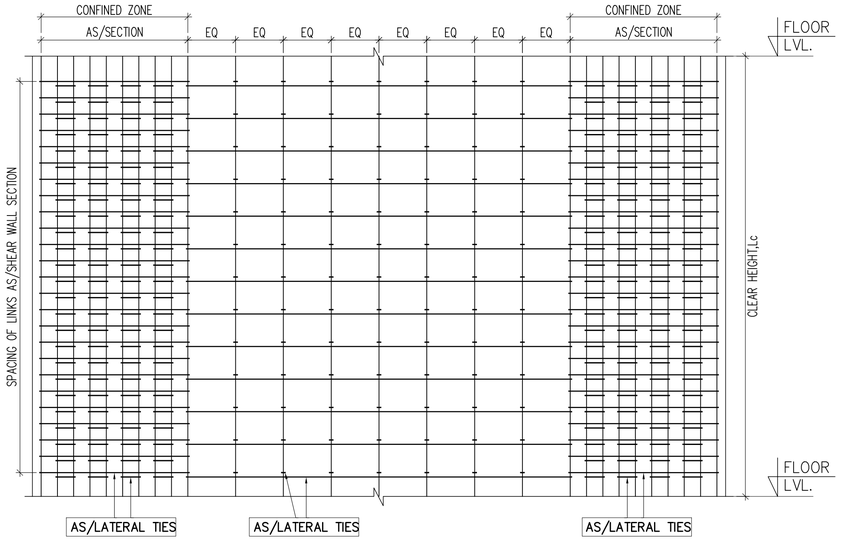
LAP LENGTH FOR Fe–550 & M–30 IN TENSION ZONE

DIA OF BAR	LENGTH IN mm
25	1250
20	1000
16	800
12	600
10	500
8	400



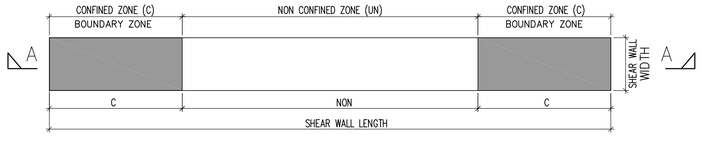
TYPICAL SHEAR WALL ELEVATION

IN LAP PORTION STIRRUPS SPACING SHALL BE 150mmc/c (Max.)



TYP. SECTION A–A

* STIRRUPS SHOULD BE STAGGERLY PLACED



TYPICAL SECTION OF BOUNDARY ZONE IN SHEAR WALL

TIES GROUP SCHEDULE

G2	X	10ø@100c/c
	Y	8ø@100c/c
G3	X	8ø@100c/c
	Y	8ø@100c/c
	Z	8ø@200c/c
	W	8ø@200c/c

LAP LENGTH FOR Fe–550 & M–30 IN COMPRESSION ZONE

DIA OF BAR	LENGTH IN mm
25	1000
20	800
16	640
12	480
10	400
8	320

Rakesh 17.2.2025

Rakesh Kumar
B.E. (Civil), M.S. (Structures)
Chartered Engineer
FIE-1293156, FIV-17032
Reliable Consulting Engineers
87, Sector-30, Gurugram (HR.)

GENERAL NOTES:–

1. READ THIS DRAWING IN CONJUNCTION WITH RELEVANT ARCHITECTURAL DRAWINGS. ANY DISCREPANCY IF FOUND SHALL BE BROUGHT TO THE NOTICE OF CONSULTANT.
2. ALL DIMENSIONS & LEVELS ARE IN MILIMETERS.
3. DO NOT SCALE ANY DIMENSION.
4. CONFIRM LOCATION OF WALLS WITH RELEVANT ARCH. DRGS.
5. THE REINFORCEMENT SHALL BE HYSD. FE–550(SD) BARS HAVING YIELD STRENGTH NOT LESS THAN 550 N/mm² & CONFORMING TO I.S. 1786 – 2008.
6. GRADE OF CONCRETE SHALL BE AS FOLLOWS:–
   (a) FOUNDATION : M–30
   (b) COLUMN/S.W. : M–30
   (c) BEAM : M–30
   (d) SLAB : M–30
   (e) R.C.C WALL : M–30
7. THE CLEAR COVER TO THE REINFORCEMENT SHALL BE AS FOLLOWS:–
   (a) FOUNDATION : 75 MM (BOTTOM) & 50 MM (TOP)
   (b) COLUMN : 40 MM
   (c) BEAM : 25 MM
   (d) SLAB : 20 MM
   (e) R.C.C WALL : 30 MM

   NOMINAL COVER IS THE DEPTH OF CONCRETE COVER TO ALL STEEL REINFORCEMENT INCLUDING LINKS/ TIES/ STIRRUPS.
8. NOT MORE THAN 50% OF THE BARS SHALL BE LAPPED AT ANY SECTION. LAPS CLOSE TO THE MID SPAN IN BOTTOM BARS & CLOSE TO SUPPORTS IN TOP BARS SHALL BE AVOIDED.
9. ---------- INDICATES BOTTOM BARS
   ———— INDICATES TOP BARS
   OPENING IN STRUCTURAL ELEMENT
   P.C.C WORK
   BRICK WORK
10. ALL R.C.C. TO BE MACHINE MIXED, VIBRATED AND CURED THOROUGHLY AS PER I.S 456–LATEST.
11. ALL FOOTING ARE CENTRALY PLACED WITH RESPECTED TO THE CENTER LINE OF COLUMN.
12. REINFORCEMENT SHALL BE PROVIDED IN TWO LAYERS WHEREVER FOUND NECESSARY WITH SPACER BAR TO BE PROVIDED BETWEEN TWO LAYERS OF REINFORCEMENTS AS PER IS: 456. SPACER BARS
13. ALL DIMENSIONS MUST BE CHECKED WITH ARCHITECT'S DRGS.& IN CASE OF ANY DISCRIPANCY ARCHITECTS DRGS. SHALL PREVAIL.
14. ALL CONSTRUCTION JOINTS SHALL BE APROVED BY CONSULTANT ON THE BASIS OF SCHEME PREPARED BY CONTRACTOR.
15. TOP AND BOTTON EXTRA BARS IN BEAMS TO EXTEND BEYOND THE FACE OF SUPPORT AS SHOWN IN DRG UNLESS OTHERWISE SHOWN.
16. THE FIRST STIRRUPS IN BEAMS SHALL BE AT A DISTANCE OF 50MM FROM THE JOINT FACE THE SPECIAL CONFINING REINFORCEMENT SHALL BE PROVIDED THROUGH THE JOINT AT THE GIVEN SPACING IN COLUMNS.
17. All ANGLES ARE RIGHT ANGLES UNLESS OTHERWISE SPECIFIED.
18. PROVIDE DIST STEEL OVER EXTRA TOP BARS IS: 8ø@200 c/c (8") ——o——
19. ALL LOOSE POCKETS OF SOIL BELOW FOUNDATION SHALL BE FILLED WITH P.C.C.1:4:8.

REV.NO.	DATE	REVISION
R0	15–02–2025	FOR SUBMISSION

OWNER/DEVELOPER:

APNA GHAR BUILDWELL PVT. LTD.
290, NAYA–BASS, ALWAR RAJASTHAN
Alwar Office: C/O PHOOL BAGH SERVICE STATION
NEAR CIRCUIT HOUSE, ALWAR Tel. 0144–3241400

PROJECT:

REVISED BUILDING PLAN AT KHASRA NO :–205,206,207, 208,209,210/679,216,217,218,215/693,215/699 AT VILLAGE TAPUKARA, TEH.–TIJARA, TIJARA ROAD, DISTT.–ALWAR (RAJ.)

DRAWING TITLE: SHEAR WALL SCHEDULE & DETAILS (BLOCK–E)

DWG NO. ST–05

DRAWN BY:–	M.S	SCALE:–	N.T.S
DESIGN BY:–	S.A	DATE:–	15–02–2025
CHECK BY:–	R.K	PROJECT NO:–	4743

ARCHITECTS:

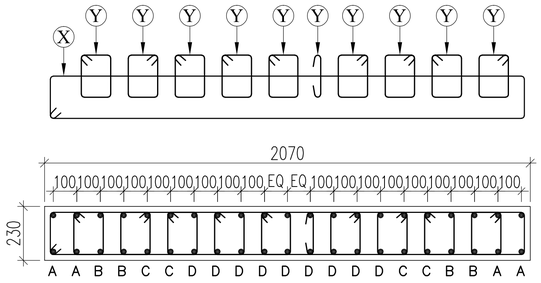
CREATIVE STUDIO
AR. MANSINGH MEENA
317, THIRD FLOOR, KRISH SQUARE, OPP. MODERN PUBLIC SCHOOL, BHAGAT SINGH COLONY, BHIWADI, ALWAR (RAJ.)
Web.–www.csbhiwadi.com, Email id–info@csbhiwadi.com
MOB:– 09460478315, PH:– 01493–491200

STRUCTURAL CONSULTANT:

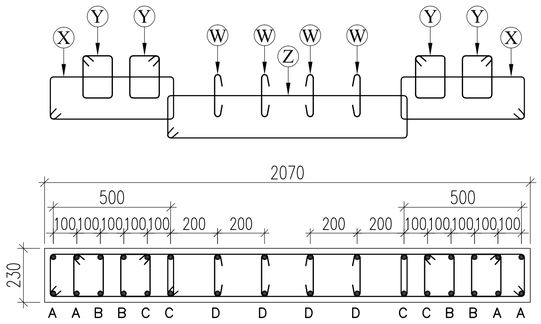
RELIABLE CONSULTING ENGINEERS
87, SECTOR –30, GURGAON–122001, HARYANA
Email–rce8730@gmail.com

DRAWING RELEASED FOR:

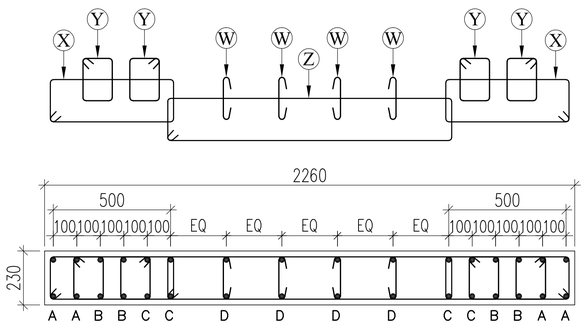
☐ APPROVAL ■ SUBMISSION
☐ ADVANCE COPY ☐ CONSTRUCTION



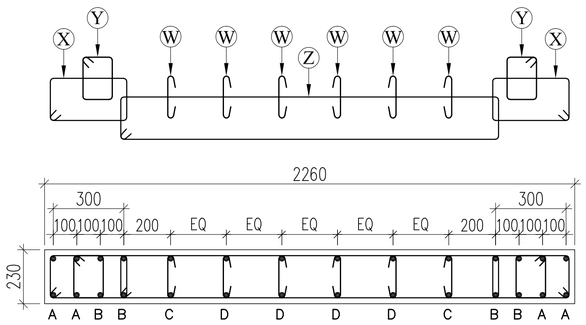
SW2 (SEC:-4)



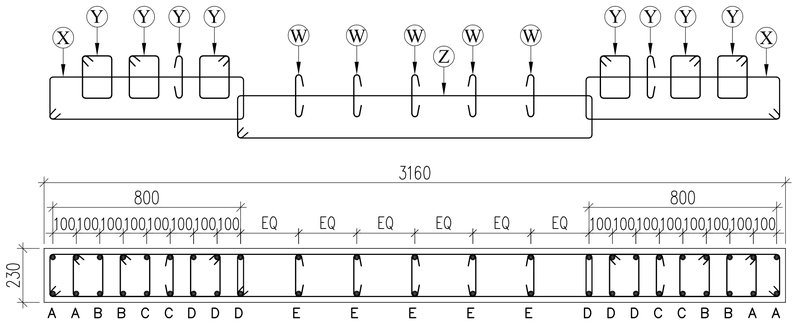
SW2 (SEC:-4A)



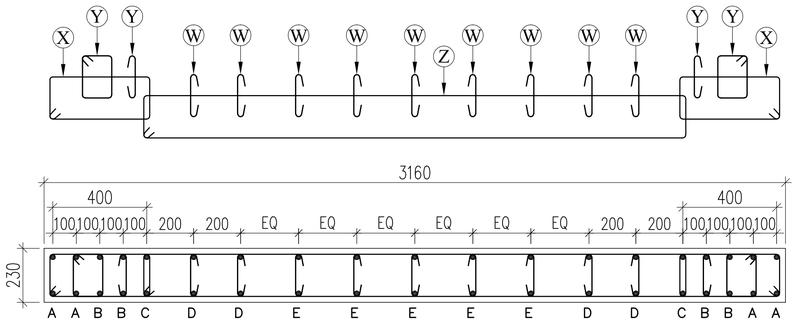
SW3 (SEC:-5)



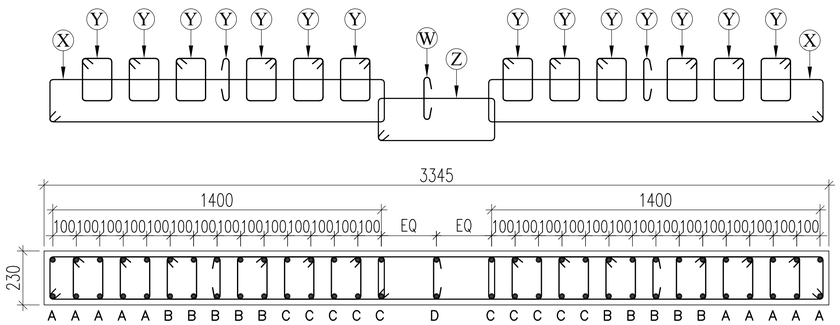
SW3 (SEC:-5A)



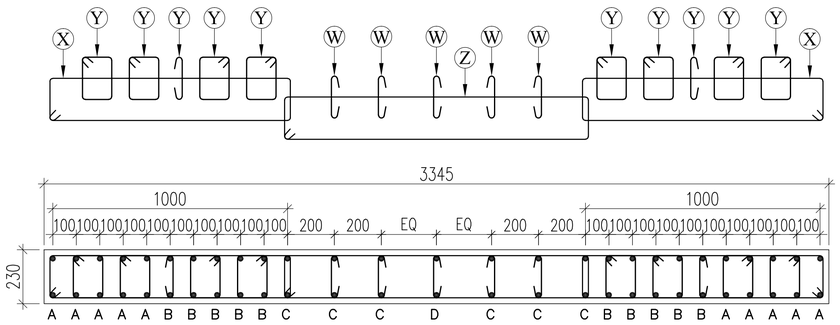
SW4 (SEC:-6)



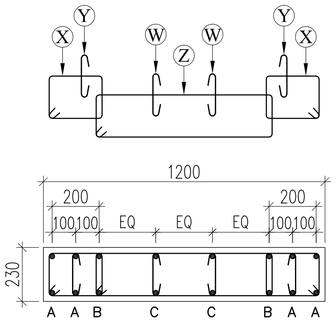
SW4 (SEC:-6A)



SW5 (SEC:-7)



SW5 (SEC:-7A)



SW1 (SEC:-3)

GENERAL NOTES:-

1. READ THIS DRAWING IN CONJUNCTION WITH RELEVANT ARCHITECTURAL DRAWINGS. ANY DISCREPANCY IF FOUND SHALL BE BROUGHT TO THE NOTICE OF CONSULTANT.
2. ALL DIMENSIONS & LEVELS ARE IN MILIMETERS.
3. DO NOT SCALE ANY DIMENSION.
4. CONFIRM LOCATION OF WALLS WITH RELEVANT ARCH. DRGS.
5. THE REINFORCEMENT SHALL BE HYSD. FE-550(SD) BARS HAVING YIELD STRENGTH NOT LESS THAN 550 N/mm² & CONFORMING TO I.S. 1786 - 2008.
6. GRADE OF CONCRETE SHALL BE AS FOLLOWS:-
   (a) FOUNDATION : M-30
   (b) COLUMN/S.W. : M-30
   (c) BEAM : M-30
   (d) SLAB : M-30
   (e) R.C.C WALL : M-30
7. THE CLEAR COVER TO THE REINFORCEMENT SHALL BE AS FOLLOWS:-
   (a) FOUNDATION : 75 MM (BOTTOM) & 50 MM (TOP)
   (b) COLUMN : 40 MM
   (c) BEAM : 25 MM
   (d) SLAB : 20 MM
   (e) R.C.C WALL : 30 MM

   NOMINAL COVER IS THE DEPTH OF CONCRETE COVER TO ALL STEEL REINFORCEMENT INCLUDING LINKS/ TIES/ STIRRUPS.
8. NOT MORE THAN 50% OF THE BARS SHALL BE LAPPED AT ANY SECTION. LAPS CLOSE TO THE MID SPAN IN BOTTOM BARS & CLOSE TO SUPPORTS IN TOP BARS SHALL BE AVOIDED.
9. --------- INDICATES BOTTOM BARS
   ——————— INDICATES TOP BARS
   OPENING IN STRUCTURAL ELEMENT
   P.C.C WORK
   BRICK WORK
10. ALL R.C.C. TO BE MACHINE MIXED, VIBRATED AND CURED THOROUGHLY AS PER I.S 456-LATEST.
11. ALL FOOTING ARE CENTRALY PLACED WITH RESPECTED TO THE CENTER LINE OF COLUMN.
12. REINFORCEMENT SHALL BE PROVIDED IN TWO LAYERS WHEREVER FOUND NECESSARY WITH SPACER BAR TO BE PROVIDED BETWEEN TWO LAYERS OF REINFORCEMENTS AS PER IS:456. SPACER BARS
13. ALL DIMENSIONS MUST BE CHECKED WITH ARCHITECT'S DRGS.& IN CASE OF ANY DISCRIPANCY ARCHITECTS DRGS. SHALL PREVAIL.
14. ALL CONSTRUCTION JOINTS SHALL BE APROVED BY CONSULTANT ON THE BASIS OF SCHEME PREPARED BY CONTRACTOR.
15. TOP AND BOTTON EXTRA BARS IN BEAMS TO EXTEND BEYOND THE FACE OF SUPPORT AS SHOWN IN DRG UNLESS OTHERWISE SHOWN.
16. THE FIRST STIRRUPS IN BEAMS SHALL BE AT A DISTANCE OF 50MM FROM THE JOINT FACE THE SPECIAL CONFINING REINFORCEMENT SHALL BE PROVIDED THROUGH THE JOINT AT THE GIVEN SPACING IN COLUMNS.
17. All ANGLES ARE RIGHT ANGLES UNLESS OTHERWISE SPECIFIED.
18. PROVIDE DIST STEEL OVER EXTRA TOP BARS IS: 8 @200 c/c (8")
19. ALL LOOSE POCKETS OF SOIL BELOW FOUNDATION SHALL BE FILLED WITH P.C.C.1:4:8.

Rakesh Kumar 17.2.2025
B.E. (Civil), M.S. (Structures)
Chartered Engineer
FIE-1293156, FIV-17032
Reliable Consulting Engineers
87, Sector-30, Gurugram (HR.)

REV.NO.	DATE	REVISION
R0	15-02-2025	FOR SUBMISSION

OWNER/DEVELOPER:

APNA GHAR BUILDWELL PVT. LTD.
290, NAYA-BASS, ALWAR RAJASTHAN
Alwar Office: C/O PHOOL BAGH SERVICE STATION
NEAR CIRCUIT HOUSE, ALWAR Tel. 0144-3241400

PROJECT:

REVISED BUILDING PLAN AT KHASRA NO :-205,206,207, 208,209,210/679,216,217,218,215/693,215/699 AT VILLAGE TAPUKARA, TEH.-TIJARA, TIJARA ROAD, DISTT.-ALWAR (RAJ.)

DRAWING TITLE: SHEAR WALL SECTION DETAILS (BLOCK-E)

DWG NO. ST-06

DRAWN BY:-	M.S	SCALE:-	N.T.S
DESIGN BY:-	S.A	DATE:-	15-02-2025
CHECK BY:-	R.K	PROJECT NO:-	4743

ARCHITECTS:

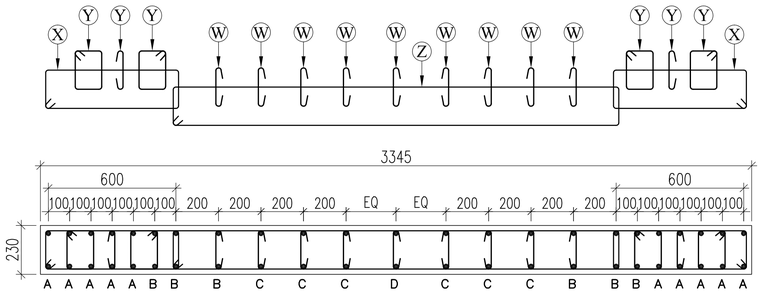
CREATIVE STUDIO
AR. MANSINGH MEENA
317, THIRD FLOOR, KRISH SQUARE, OPP. MODERN PUBLIC SCHOOL, BHAGAT SINGH COLONY, BHIWADI, ALWAR (RAJ.)
Web.-www.csbhiwadi.com, Email id-info@csbhiwadi.com
MOB:- 09460478315, PH:- 01493-491200

STRUCTURAL CONSULTANT:

RELIABLE CONSULTING ENGINEERS
87, SECTOR -30, GURGAON-122001, HARYANA
Email-rce8730@gmail.com

DRAWING RELEASED FOR:

☐ APPROVAL ■ SUBMISSION
☐ ADVANCE COPY ☐ CONSTRUCTION



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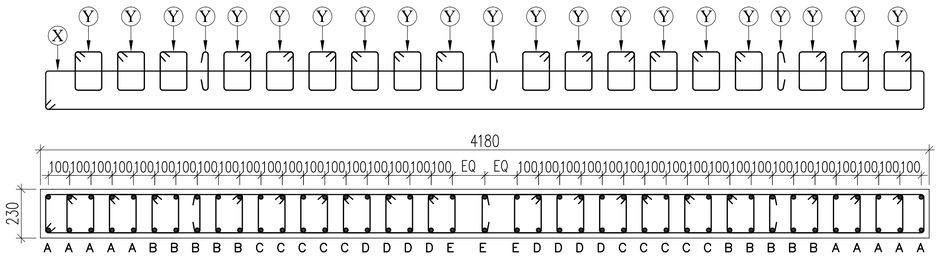

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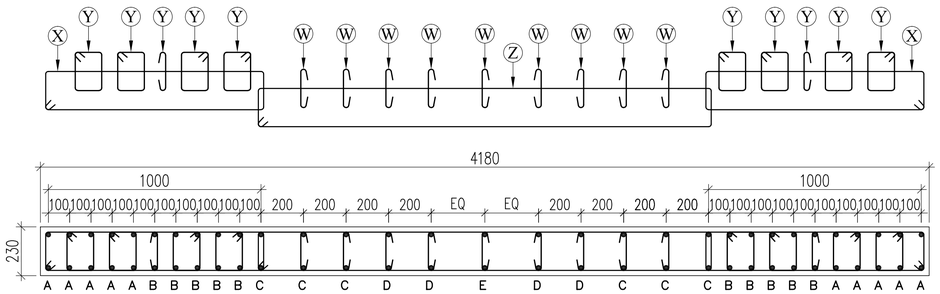

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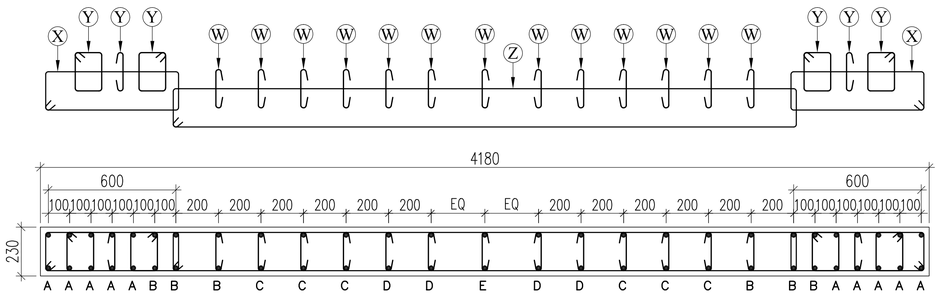

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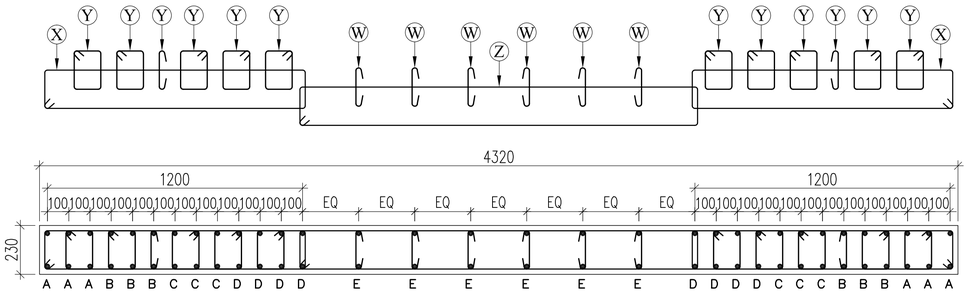

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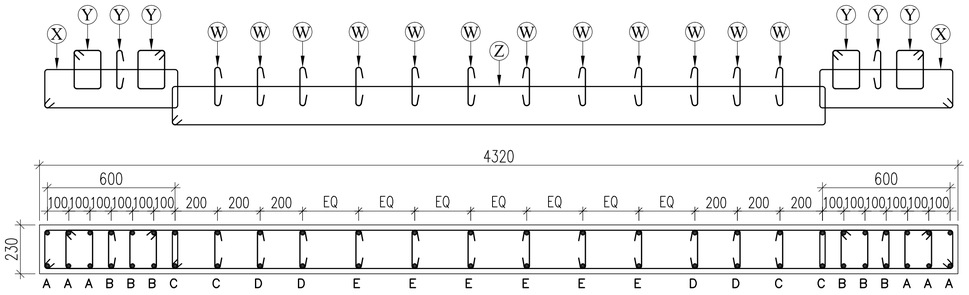

SW7 (SEC:-9A)

GENERAL NOTES:-

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3. DO NOT SCALE ANY DIMENSION.
4. CONFIRM LOCATION OF WALLS WITH RELEVANT ARCH. DRGS.
5. THE REINFORCEMENT SHALL BE HYSD. FE-550(SD) BARS HAVING YIELD STRENGTH NOT LESS THAN 550 N/mm² & CONFORMING TO I.S. 1786 - 2008.
6. GRADE OF CONCRETE SHALL BE AS FOLLOWS:-
   (a) FOUNDATION : M-30
   (b) COLUMN/S.W. : M-30
   (c) BEAM : M-30
   (d) SLAB : M-30
   (e) R.C.C WALL : M-30
7. THE CLEAR COVER TO THE REINFORCEMENT SHALL BE AS FOLLOWS:-
   (a) FOUNDATION : 75 MM (BOTTOM) & 50 MM (TOP)
   (b) COLUMN : 40 MM
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   (d) SLAB : 20 MM
   (e) R.C.C WALL : 30 MM

   NOMINAL COVER IS THE DEPTH OF CONCRETE COVER TO ALL STEEL REINFORCEMENT INCLUDING LINKS/ TIES/ STIRRUPS.
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9. --------- INDICATES BOTTOM BARS
   ——————— INDICATES TOP BARS
   OPENING IN STRUCTURAL ELEMENT
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12. REINFORCEMENT SHALL BE PROVIDED IN TWO LAYERS WHEREVER FOUND NECESSARY WITH SPACER BAR TO BE PROVIDED BETWEEN TWO LAYERS OF REINFORCEMENTS AS PER IS:456. SPACER BARS
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15. TOP AND BOTTON EXTRA BARS IN BEAMS TO EXTEND BEYOND THE FACE OF SUPPORT AS SHOWN IN DRG UNLESS OTHERWISE SHOWN.
16. THE FIRST STIRRUPS IN BEAMS SHALL BE AT A DISTANCE OF 50MM FROM THE JOINT FACE THE SPECIAL CONFINING REINFORCEMENT SHALL BE PROVIDED THROUGH THE JOINT AT THE GIVEN SPACING IN COLUMNS.
17. All ANGLES ARE RIGHT ANGLES UNLESS OTHERWISE SPECIFIED.
18. PROVIDE DIST STEEL OVER EXTRA TOP BARS IS: 8@200 c/c (8")
19. ALL LOOSE POCKETS OF SOIL BELOW FOUNDATION SHALL BE FILLED WITH P.C.C.1:4:8.

REV.NO.	DATE	REVISION
R0	15-02-2025	FOR SUBMISSION

OWNER/DEVELOPER:

APNA GHAR BUILDWELL PVT. LTD.
290, NAYA-BASS, ALWAR RAJASTHAN
Alwar Office: C/O PHOOL BAGH SERVICE STATION
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PROJECT:

REVISED BUILDING PLAN AT KHASRA NO :-205,206,207, 208,209,210/679,216,217,218,215/693,215/699 AT VILLAGE TAPUKARA, TEH.-TIJARA, TIJARA ROAD, DISTT.-ALWAR (RAJ.)

DRAWING TITLE: SHEAR WALL SECTION DETAILS (BLOCK-E)

DWG NO. ST-07

DRAWN BY:-	M.S	SCALE:-	N.T.S
DESIGN BY:-	S.A	DATE:-	15-02-2025
CHECK BY:-	R.K	PROJECT NO:-	4743

ARCHITECTS:

CREATIVE STUDIO
AR. MANSINGH MEENA
317, THIRD FLOOR, KRISH SQUARE, OPP. MODERN PUBLIC SCHOOL, BHAGAT SINGH COLONY, BHIWADI, ALWAR (RAJ.)
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STRUCTURAL CONSULTANT:

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Rakesh 17.2.2025
Rakesh Kumar
B.E. (Civil), M.S. (Structures)
Chartered Engineer
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87, Sector-30, Gurugram (HR.)

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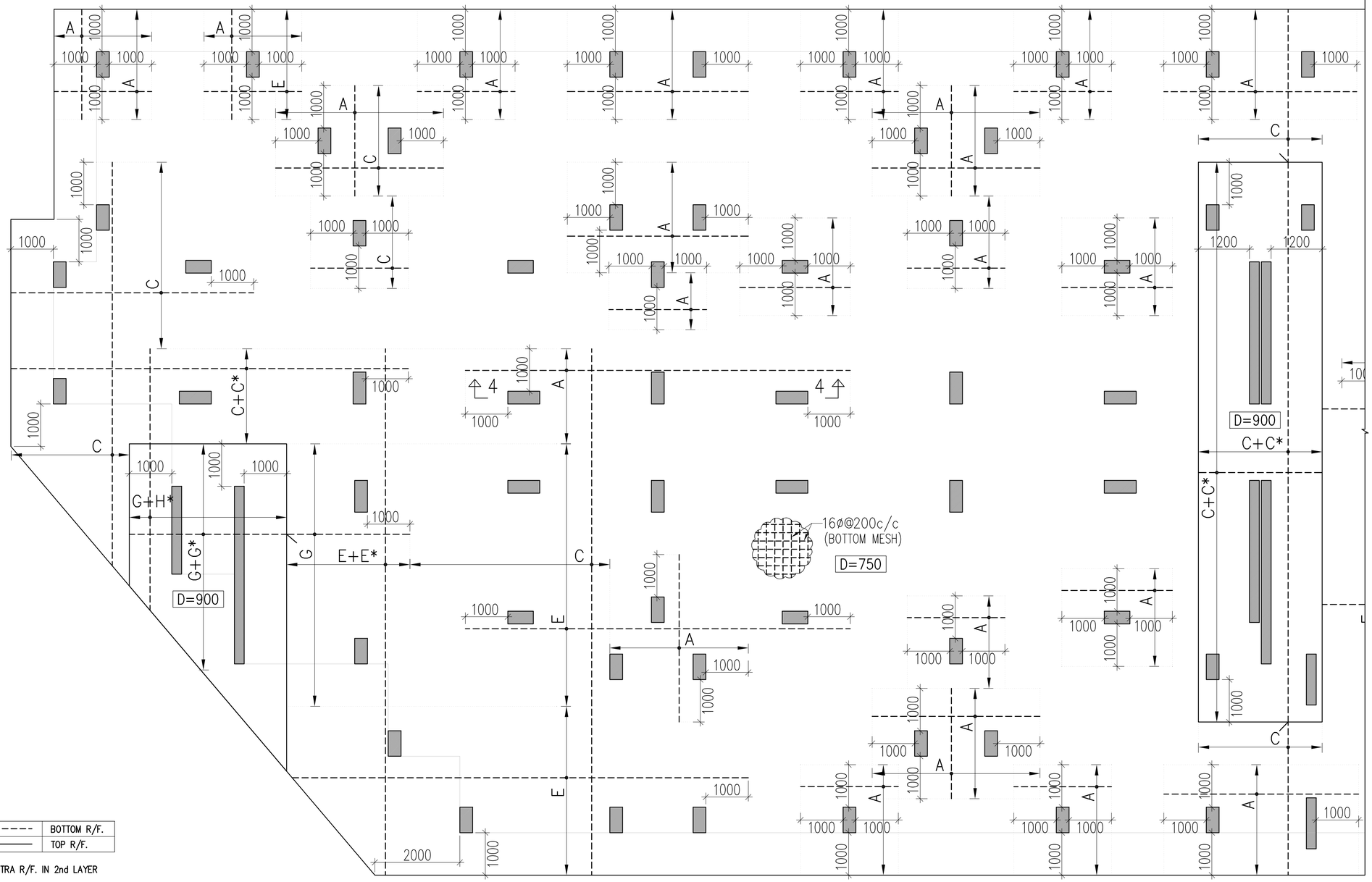
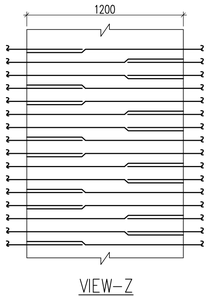
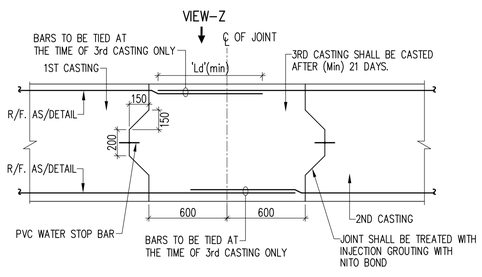


FOUNDATION PLAN (BLOCK-E)

SHOWING EXTRA BOTTOM REINFORCEMENT



VIEW-Z



TYPICAL COMPENSATORY STRIP DETAIL

SCHEDULE OF EXTRA R/F

A	12ø@200c/c
B	12ø@100c/c
C	16ø@200c/c
D	16ø@100c/c
E	20ø@200c/c
F	20ø@100c/c
G	25ø@200c/c
H	25ø@100c/c

LAP LENGTH FOR Fe-550 & M-30 IN COMPRESSION ZONE

DIA OF BAR	LENGTH IN mm
25	1000
20	800
16	640
12	480
10	400
8	320

LAP LENGTH FOR Fe-550 & M-30 IN TENSION ZONE

DIA OF BAR	LENGTH IN mm
25	1250
20	1000
16	800
12	600
10	500
8	400

Rakesh Kumar 17.2.2025
B.E. (Civil), M.S. (Structures)
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18. PROVIDE DIST STEEL OVER EXTRA TOP BARS IS: 8ø@200 c/c (8") ——o——
19. ALL LOOSE POCKETS OF SOIL BELOW FOUNDATION SHALL BE FILLED WITH P.C.C.1:4:8.

REV.NO.	DATE	REVISION
R0	15-02-2025	FOR SUBMISSION

OWNER/DEVELOPER:

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290, NAYA-BASS, ALWAR RAJASTHAN
Alwar Office: C/O PHOOL BAGH SERVICE STATION
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PROJECT:

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DRAWING TITLE: FOUNDATION PLAN (BOTTOM EXTRA REINF.) (BLOCK-E)

DWG NO. ST-08

DRAWN BY: -	M.S	SCALE: -	N.T.S
DESIGN BY: -	S.A	DATE: -	15-02-2025
CHECK BY: -	R.K	PROJECT NO: -	4743

ARCHITECTS:

CREATIVE STUDIO
AR. MANSINGH MEENA
317, THIRD FLOOR, KRISH SQUARE, OPP. MODERN PUBLIC SCHOOL, BHAGAT SINGH COLONY, BHIWADI, ALWAR (RAJ.)
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STRUCTURAL CONSULTANT:

RELIABLE CONSULTING ENGINEERS
87, SECTOR -30, GURGAON-122001, HARYANA
Email-rce8730@gmail.com

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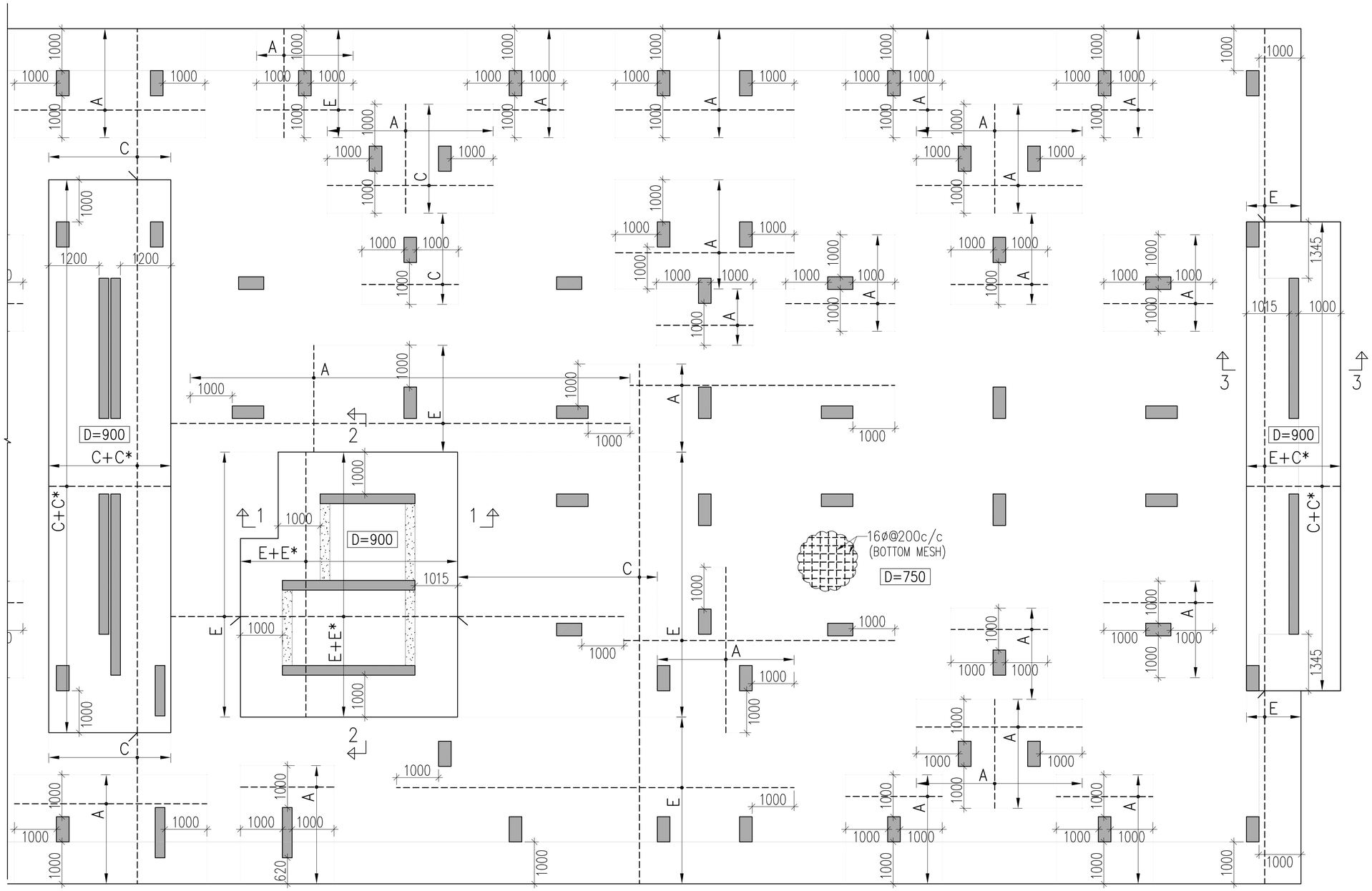

FOUNDATION PLAN (BLOCK-E)
SHOWING EXTRA BOTTOM REINFORCEMENT

SCHEDULE OF EXTRA R/F

A	12ø@200c/c
B	12ø@100c/c
C	16ø@200c/c
D	16ø@100c/c
E	20ø@200c/c
F	20ø@100c/c
G	25ø@200c/c
H	25ø@100c/c

--------	BOTTOM R/F.
————	TOP R/F.

∗ = EXTRA R/F. IN 2nd LAYER

LAP LENGTH FOR Fe-550 & M-30 IN COMPRESSION ZONE

DIA OF BAR	LENGTH IN mm
25	1000
20	800
16	640
12	480
10	400
8	320

LAP LENGTH FOR Fe-550 & M-30 IN TENSION ZONE

DIA OF BAR	LENGTH IN mm
25	1250
20	1000
16	800
12	600
10	500
8	400

Rakesh Kumar 17.2.2025
B.E. (Civil), M.S. (Structures)
Chartered Engineer
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REV.NO.	DATE	REVISION
R0	15-02-2025	FOR SUBMISSION

OWNER/DEVELOPER:
APNA GHAR BUILDWELL PVT. LTD.
290, NAYA-BASS, ALWAR RAJASTHAN
Alwar Office: C/O PHOOL BAGH SERVICE STATION
NEAR CIRCUIT HOUSE, ALWAR Tel. 0144-3241400

PROJECT:
REVISED BUILDING PLAN AT KHASRA NO :-205,206,207, 208,209,210/679,216,217,218,215/693,215/699 AT VILLAGE TAPUKARA, TEH.-TIJARA, TIJARA ROAD, DISTT.-ALWAR (RAJ.)

DRAWING TITLE: FOUNDATION PLAN (BOTTOM EXTRA REINF.) (BLOCK-E)
DWG NO. ST-09

DRAWN BY:-	M.S	SCALE:-	N.T.S
DESIGN BY:-	S.A	DATE:-	15-02-2025
CHECK BY:-	R.K	PROJECT NO:-	4743

ARCHITECTS:
CREATIVE STUDIO
AR. MANSINGH MEENA
317, THIRD FLOOR, KRISH SQUARE, OPP. MODERN PUBLIC SCHOOL, BHAGAT SINGH COLONY, BHIWADI, ALWAR (RAJ.)
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STRUCTURAL CONSULTANT:
RELIABLE CONSULTING ENGINEERS
87, SECTOR -30, GURGAON-122001, HARYANA
Email-rce8730@gmail.com

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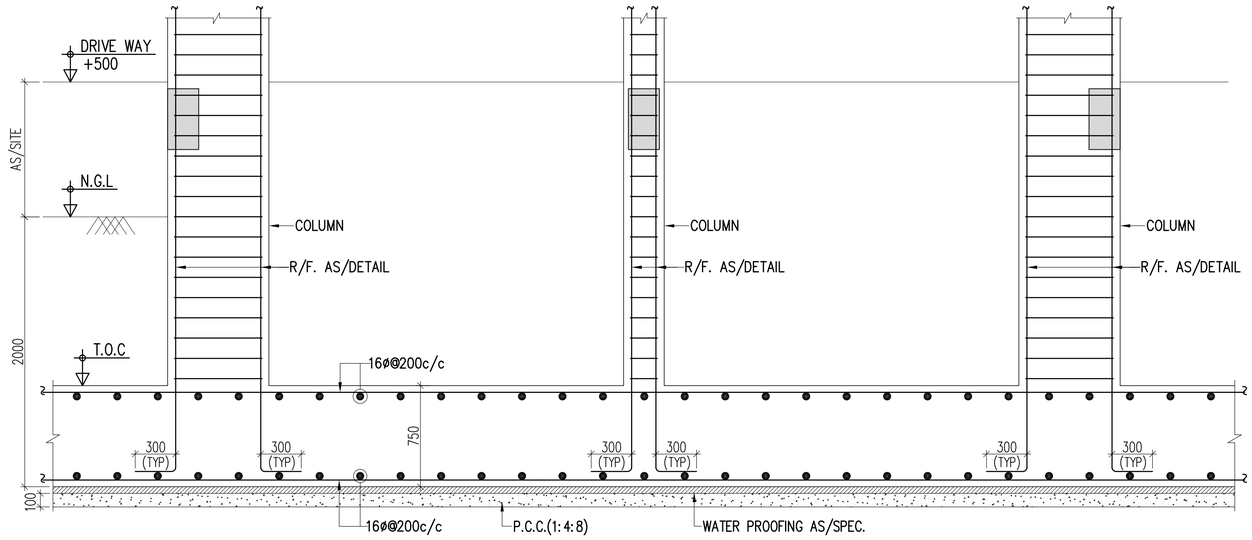
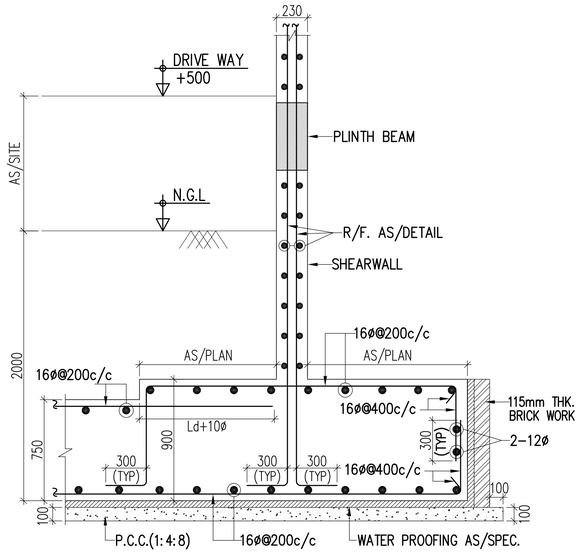
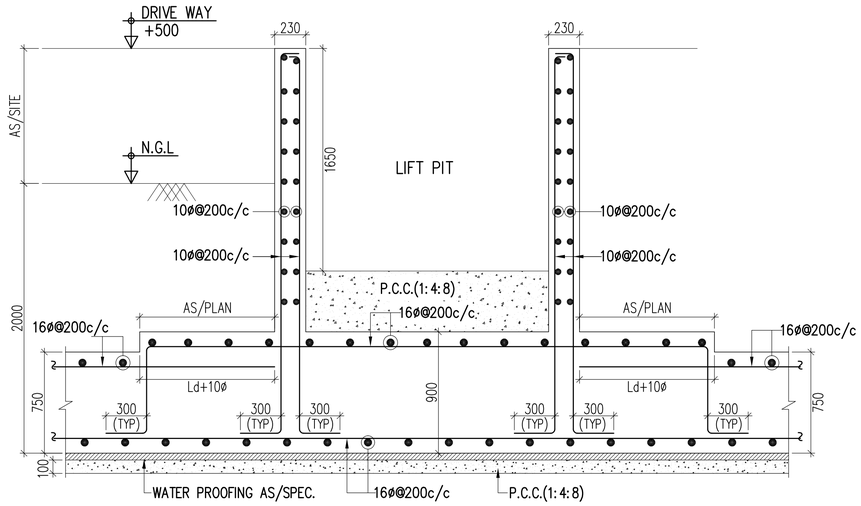


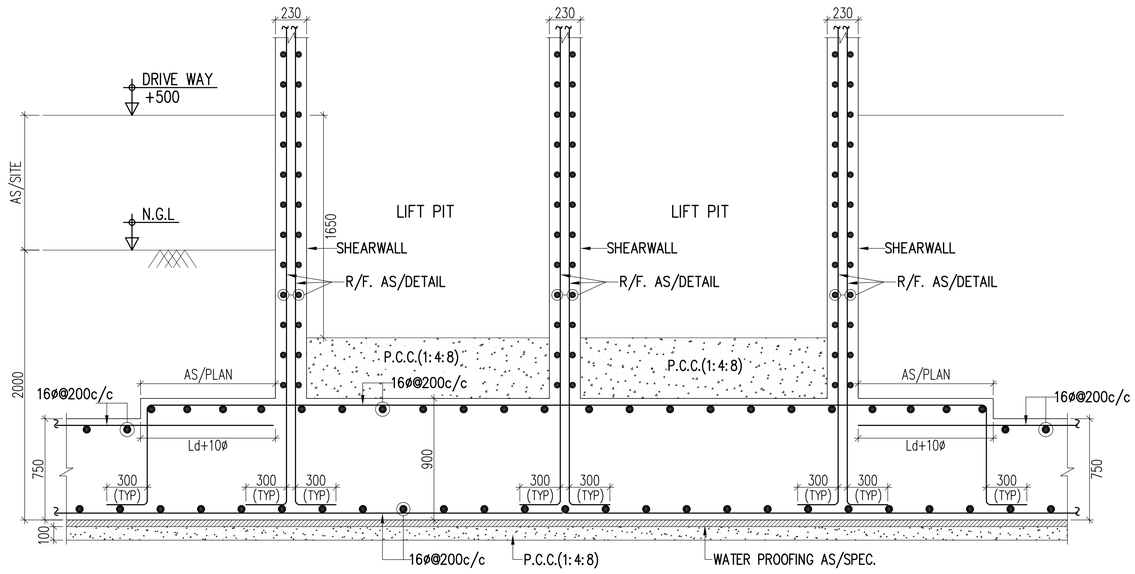
SECTION 4–4
(EXTRA REINFORCEMENT AS/PLAN)



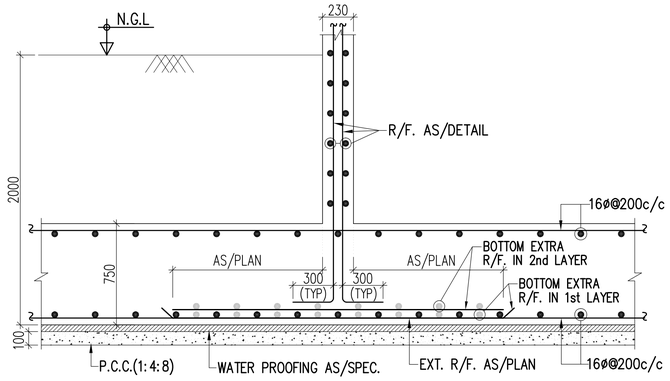
SECTION 3–3
(EXTRA REINFORCEMENT AS/PLAN)



SECTION 1–1
(EXTRA REINFORCEMENT AS/PLAN)



SECTION 2–2
(EXTRA REINFORCEMENT AS/PLAN)



TYPICAL REINF. DETAIL OF RAFT
SHOWING EXTRA BOTTOM REINFORCEMENT

LAP LENGTH FOR Fe–550 & M–30 IN COMPRESSION ZONE

DIA OF BAR	LENGTH IN mm
25	1000
20	800
16	640
12	480
10	400
8	320

LAP LENGTH FOR Fe–550 & M–30 IN TENSION ZONE

DIA OF BAR	LENGTH IN mm
25	1250
20	1000
16	800
12	600
10	500
8	400

Rakesh Kumar 17.2.2025
B.E. (Civil), M.S. (Structures)
Chartered Engineer
FIE-1293156, FIV-17032
Reliable Consulting Engineers
87, Sector-30, Gurugram (HR.)

GENERAL NOTES: –

1. READ THIS DRAWING IN CONJUNCTION WITH RELEVANT ARCHITECTURAL DRAWINGS. ANY DISCREPANCY IF FOUND SHALL BE BROUGHT TO THE NOTICE OF CONSULTANT.
2. ALL DIMENSIONS & LEVELS ARE IN MILIMETERS.
3. DO NOT SCALE ANY DIMENSION.
4. CONFIRM LOCATION OF WALLS WITH RELEVANT ARCH. DRGS.
5. THE REINFORCEMENT SHALL BE HYSD. FE–550(SD) BARS HAVING YIELD STRENGTH NOT LESS THAN 550 N/mm² & CONFORMING TO I.S. 1786 – 2008.
6. GRADE OF CONCRETE SHALL BE AS FOLLOWS: –
   (a) FOUNDATION : M–30
   (b) COLUMN/S.W. : M–30
   (c) BEAM : M–30
   (d) SLAB : M–30
   (e) R.C.C WALL : M–30
7. THE CLEAR COVER TO THE REINFORCEMENT SHALL BE AS FOLLOWS: –
   (a) FOUNDATION : 75 MM (BOTTOM) & 50 MM (TOP)
   (b) COLUMN : 40 MM
   (c) BEAM : 25 MM
   (d) SLAB : 20 MM
   (e) R.C.C WALL : 30 MM

   NOMINAL COVER IS THE DEPTH OF CONCRETE COVER TO ALL STEEL REINFORCEMENT INCLUDING LINKS/ TIES/ STIRRUPS.
8. NOT MORE THAN 50% OF THE BARS SHALL BE LAPPED AT ANY SECTION. LAPS CLOSE TO THE MID SPAN IN BOTTOM BARS & CLOSE TO SUPPORTS IN TOP BARS SHALL BE AVOIDED.
9. ---------- INDICATES BOTTOM BARS
   ——— INDICATES TOP BARS
   OPENING IN STRUCTURAL ELEMENT
   P.C.C WORK
   BRICK WORK
10. ALL R.C.C. TO BE MACHINE MIXED, VIBRATED AND CURED THOROUGHLY AS PER I.S 456–LATEST.
11. ALL FOOTING ARE CENTRALY PLACED WITH RESPECTED TO THE CENTER LINE OF COLUMN.
12. REINFORCEMENT SHALL BE PROVIDED IN TWO LAYERS WHEREVER FOUND NECESSARY WITH SPACER BAR TO BE PROVIDED BETWEEN TWO LAYERS OF REINFORCEMENTS AS PER IS: 456. SPACER BARS
13. ALL DIMENSIONS MUST BE CHECKED WITH ARCHITECT'S DRGS.& IN CASE OF ANY DISCRIPANCY ARCHITECTS DRGS. SHALL PREVAIL.
14. ALL CONSTRUCTION JOINTS SHALL BE APROVED BY CONSULTANT ON THE BASIS OF SCHEME PREPARED BY CONTRACTOR.
15. TOP AND BOTTON EXTRA BARS IN BEAMS TO EXTEND BEYOND THE FACE OF SUPPORT AS SHOWN IN DRG UNLESS OTHERWISE SHOWN.
16. THE FIRST STIRRUPS IN BEAMS SHALL BE AT A DISTANCE OF 50MM FROM THE JOINT FACE THE SPECIAL CONFINING REINFORCEMENT SHALL BE PROVIDED THROUGH THE JOINT AT THE GIVEN SPACING IN COLUMNS.
17. All ANGLES ARE RIGHT ANGLES UNLESS OTHERWISE SPECIFIED.
18. PROVIDE DIST STEEL OVER EXTRA TOP BARS IS: 8ø@200 c/c (8")
19. ALL LOOSE POCKETS OF SOIL BELOW FOUNDATION SHALL BE FILLED WITH P.C.C.1:4:8.

REV.NO.	DATE	REVISION
R0	15–02–2025	FOR SUBMISSION

OWNER/DEVELOPER:
APNA GHAR BUILDWELL PVT. LTD.
290, NAYA–BASS, ALWAR RAJASTHAN
Alwar Office: C/O PHOOL BAGH SERVICE STATION
NEAR CIRCUIT HOUSE, ALWAR Tel. 0144–3241400

PROJECT:
REVISED BUILDING PLAN AT KHASRA NO :–205,206,207, 208,209,210/679,216,217,218,215/693,215/699 AT VILLAGE TAPUKARA, TEH.–TIJARA, TIJARA ROAD, DISTT.–ALWAR (RAJ.)

DRAWING TITLE:
FOUNDATION SECTIONS & DETAILS. (BLOCK–E)

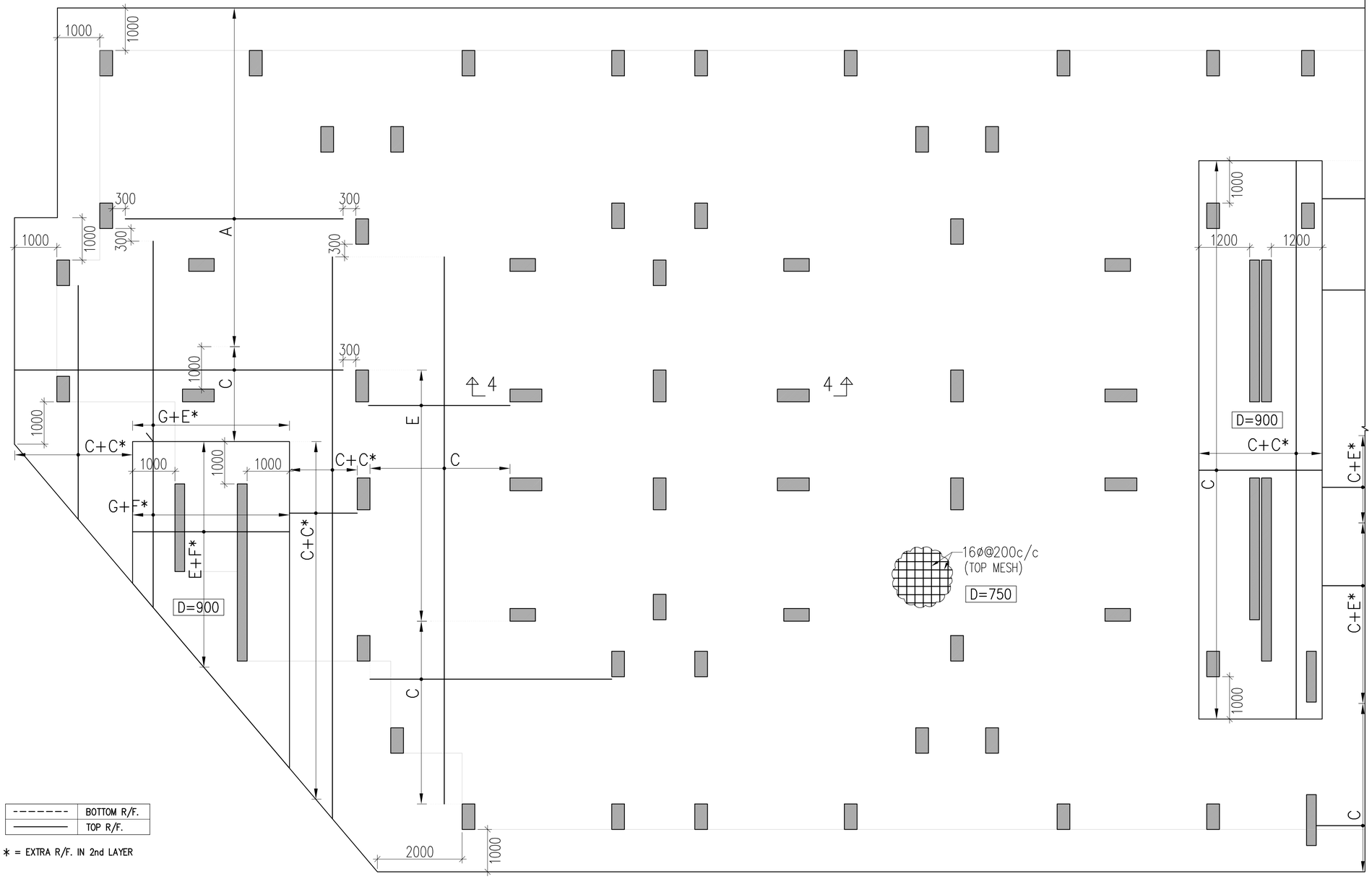
DWG NO. ST–10

DRAWN BY: –	M.S	SCALE: –	N.T.S
DESIGN BY: –	S.A	DATE: –	15–02–2025
CHECK BY: –	R.K	PROJECT NO: –	4743

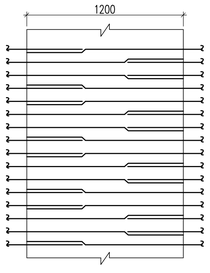
ARCHITECTS:
CREATIVE STUDIO
AR. MANSINGH MEENA
317, THIRD FLOOR, KRISH SQUARE, OPP. MODERN PUBLIC SCHOOL, BHAGAT SINGH COLONY, BHIWADI, ALWAR (RAJ.)
Web.–www.csbhiwadi.com, Email id–info@csbhiwadi.com
MOB: – 09460478315, PH: – 01493–491200

STRUCTURAL CONSULTANT:
RELIABLE CONSULTING ENGINEERS
87, SECTOR –30, GURGAON–122001, HARYANA
Email–rce8730@gmail.com

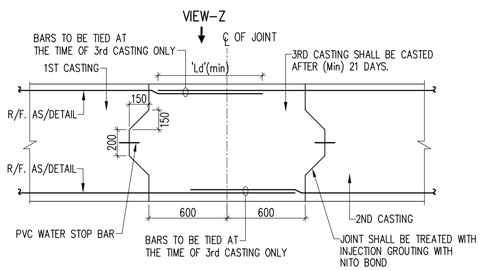
DRAWING RELEASED FOR:
☐ APPROVAL ■ SUBMISSION
☐ ADVANCE COPY ☐ CONSTRUCTION



FOUNDATION PLAN (BLOCK-E)
SHOWING EXTRA TOP REINFORCEMENT



VIEW-Z



TYPICAL COMPENSATORY STRIP DETAIL

SCHEDULE OF EXTRA R/F

A	12ø@200c/c
B	12ø@100c/c
C	16ø@200c/c
D	16ø@100c/c
E	20ø@200c/c
F	20ø@100c/c
G	25ø@200c/c
H	25ø@100c/c

LAP LENGTH FOR Fe-550 & M-30 IN COMPRESSION ZONE

DIA OF BAR	LENGTH IN mm
25	1000
20	800
16	640
12	480
10	400
8	320

LAP LENGTH FOR Fe-550 & M-30 IN TENSION ZONE

DIA OF BAR	LENGTH IN mm
25	1250
20	1000
16	800
12	600
10	500
8	400

Rakesh
Rakesh Kumar ~ 17.2-2025
B.E. (Civil), M.S. (Structures)
Chartered Engineer
FIE-1293156, FIV-17032
Reliable Consulting Engineers
87, Sector-30, Gurugram (HR.)

GENERAL NOTES: -

1. READ THIS DRAWING IN CONJUNCTION WITH RELEVANT ARCHITECTURAL DRAWINGS. ANY DISCREPANCY IF FOUND SHALL BE BROUGHT TO THE NOTICE OF CONSULTANT.
2. ALL DIMENSIONS & LEVELS ARE IN MILIMETERS.
3. DO NOT SCALE ANY DIMENSION.
4. CONFIRM LOCATION OF WALLS WITH RELEVANT ARCH. DRGS.
5. THE REINFORCEMENT SHALL BE HYSD. FE-550(SD) BARS HAVING YIELD STRENGTH NOT LESS THAN 550 N/mm² & CONFORMING TO I.S. 1786 - 2008.
6. GRADE OF CONCRETE SHALL BE AS FOLLOWS: -
   (a) FOUNDATION : M-30
   (b) COLUMN/S.W. : M-30
   (c) BEAM : M-30
   (d) SLAB : M-30
   (e) R.C.C WALL : M-30
7. THE CLEAR COVER TO THE REINFORCEMENT SHALL BE AS FOLLOWS: -
   (a) FOUNDATION : 75 MM (BOTTOM) & 50 MM (TOP)
   (b) COLUMN : 40 MM
   (c) BEAM : 25 MM
   (d) SLAB : 20 MM
   (e) R.C.C WALL : 30 MM

   NOMINAL COVER IS THE DEPTH OF CONCRETE COVER TO ALL STEEL REINFORCEMENT INCLUDING LINKS/ TIES/ STIRRUPS.
8. NOT MORE THAN 50% OF THE BARS SHALL BE LAPPED AT ANY SECTION. LAPS CLOSE TO THE MID SPAN IN BOTTOM BARS & CLOSE TO SUPPORTS IN TOP BARS SHALL BE AVOIDED.
9. ---------- INDICATES BOTTOM BARS
   ———— INDICATES TOP BARS
   OPENING IN STRUCTURAL ELEMENT
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   BRICK WORK
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15. TOP AND BOTTON EXTRA BARS IN BEAMS TO EXTEND BEYOND THE FACE OF SUPPORT AS SHOWN IN DRG UNLESS OTHERWISE SHOWN.
16. THE FIRST STIRRUPS IN BEAMS SHALL BE AT A DISTANCE OF 50MM FROM THE JOINT FACE THE SPECIAL CONFINING REINFORCEMENT SHALL BE PROVIDED THROUGH THE JOINT AT THE GIVEN SPACING IN COLUMNS.
17. All ANGLES ARE RIGHT ANGLES UNLESS OTHERWISE SPECIFIED.
18. PROVIDE DIST STEEL OVER EXTRA TOP BARS IS: 8ø@200 c/c (8")
19. ALL LOOSE POCKETS OF SOIL BELOW FOUNDATION SHALL BE FILLED WITH P.C.C.1:4:8.

REV.NO.	DATE	REVISION
R0	15-02-2025	FOR SUBMISSION

OWNER/DEVELOPER:
APNA GHAR BUILDWELL PVT. LTD.
290, NAYA-BASS, ALWAR RAJASTHAN
Alwar Office: C/O PHOOL BAGH SERVICE STATION
NEAR CIRCUIT HOUSE, ALWAR Tel. 0144-3241400

PROJECT:
REVISED BUILDING PLAN AT KHASRA NO :-205,206,207, 208,209,210/679,216,217,218,215/693,215/699 AT VILLAGE TAPUKARA, TEH.-TIJARA, TIJARA ROAD, DISTT.-ALWAR (RAJ.)

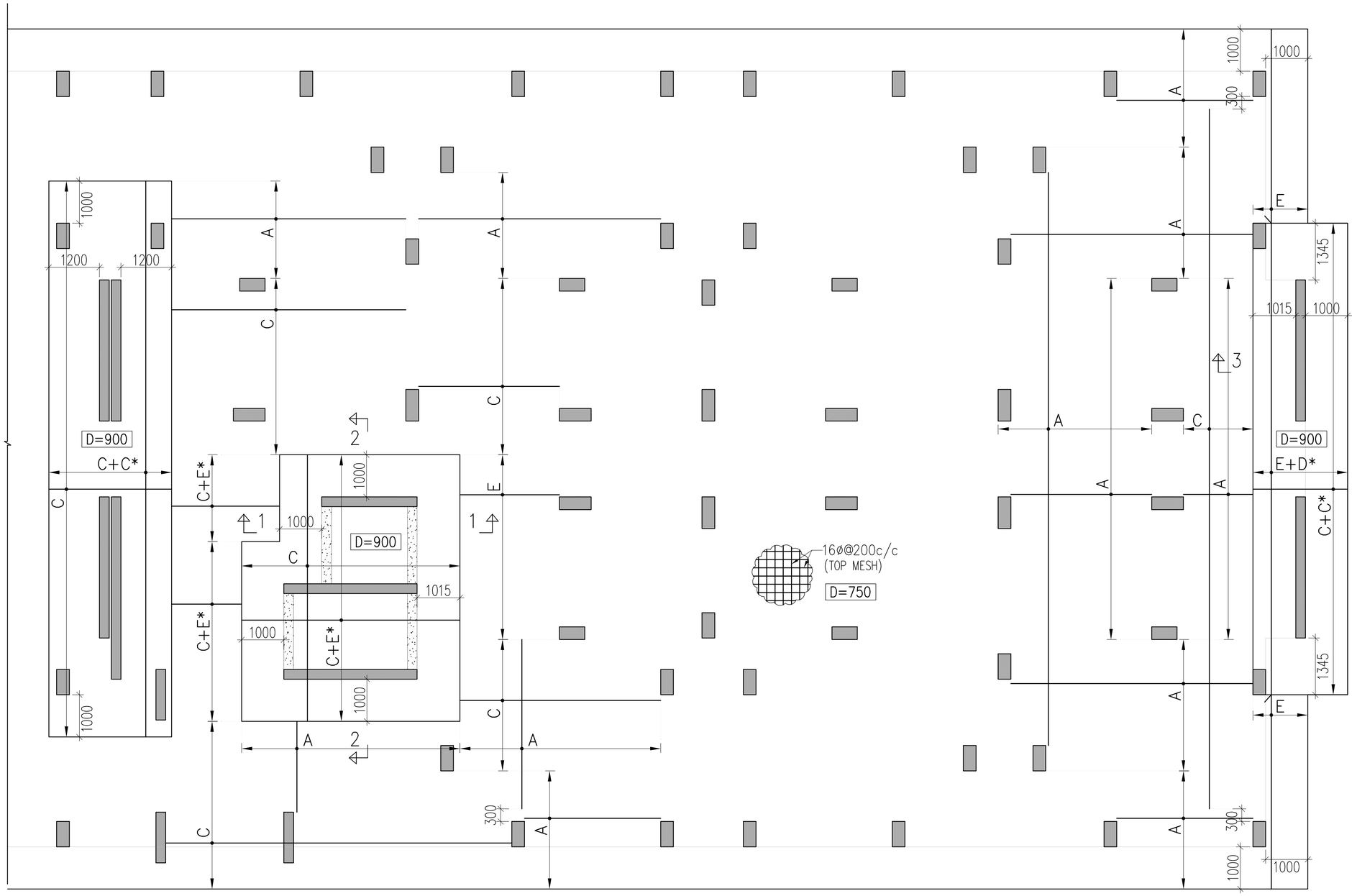
DRAWING TITLE: FOUNDATION PLAN (TOP EXTRA REINF.) (BLOCK-E)
DWG NO. ST-11

DRAWN BY: -	M.S	SCALE: -	N.T.S
DESIGN BY: -	S.A	DATE: -	15-02-2025
CHECK BY: -	R.K	PROJECT NO: -	4743

ARCHITECTS:
CREATIVE STUDIO
AR. MANSINGH MEENA
317, THIRD FLOOR, KRISH SQUARE, OPP. MODERN PUBLIC SCHOOL, BHAGAT SINGH COLONY, BHIWADI, ALWAR (RAJ.)
Web.-www.csbhiwadi.com, Email id-info@csbhiwadi.com
MOB: - 09460478315, PH: - 01493-491200

STRUCTURAL CONSULTANT:
RELIABLE CONSULTING ENGINEERS
87, SECTOR -30, GURGAON-122001, HARYANA
Email-rce8730@gmail.com

DRAWING RELEASED FOR:
☐ APPROVAL ■ SUBMISSION
☐ ADVANCE COPY ☐ CONSTRUCTION



FOUNDATION PLAN (BLOCK-E)
SHOWING EXTRA TOP REINFORCEMENT

--------	BOTTOM R/F.
————	TOP R/F.

∗ = EXTRA R/F. IN 2nd LAYER

SCHEDULE OF EXTRA R/F

A	12ø@200c/c
B	12ø@100c/c
C	16ø@200c/c
D	16ø@100c/c
E	20ø@200c/c
F	20ø@100c/c
G	25ø@200c/c
H	25ø@100c/c

LAP LENGTH FOR Fe-550 & M-30 IN COMPRESSION ZONE

DIA OF BAR	LENGTH IN mm
25	1000
20	800
16	640
12	480
10	400
8	320

LAP LENGTH FOR Fe-550 & M-30 IN TENSION ZONE

DIA OF BAR	LENGTH IN mm
25	1250
20	1000
16	800
12	600
10	500
8	400

Rakesh Kumar 17.2.2025
B.E. (Civil), M.S. (Structures)
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FIE-1293156, FIV-17032
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   (b) COLUMN/S.W. : M-30
   (c) BEAM : M-30
   (d) SLAB : M-30
   (e) R.C.C WALL : M-30
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   (c) BEAM : 25 MM
   (d) SLAB : 20 MM
   (e) R.C.C WALL : 30 MM

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9. ---------- INDICATES BOTTOM BARS
   ———— INDICATES TOP BARS
   OPENING IN STRUCTURAL ELEMENT
   P.C.C WORK
   BRICK WORK
10. ALL R.C.C. TO BE MACHINE MIXED, VIBRATED AND CURED THOROUGHLY AS PER I.S 456-LATEST.
11. ALL FOOTING ARE CENTRALY PLACED WITH RESPECTED TO THE CENTER LINE OF COLUMN.
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13. ALL DIMENSIONS MUST BE CHECKED WITH ARCHITECT'S DRGS.& IN CASE OF ANY DISCRIPANCY ARCHITECTS DRGS. SHALL PREVAIL.
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17. All ANGLES ARE RIGHT ANGLES UNLESS OTHERWISE SPECIFIED.
18. PROVIDE DIST STEEL OVER EXTRA TOP BARS IS: 8ø@200 c/c (8")
19. ALL LOOSE POCKETS OF SOIL BELOW FOUNDATION SHALL BE FILLED WITH P.C.C.1:4:8.

REV.NO.	DATE	REVISION
R0	15-02-2025	FOR SUBMISSION

OWNER/DEVELOPER:
APNA GHAR BUILDWELL PVT. LTD.
290, NAYA-BASS, ALWAR RAJASTHAN
Alwar Office: C/O PHOOL BAGH SERVICE STATION
NEAR CIRCUIT HOUSE, ALWAR Tel. 0144-3241400

PROJECT:
REVISED BUILDING PLAN AT KHASRA NO :-205,206,207, 208,209,210/679,216,217,218,215/693,215/699 AT VILLAGE TAPUKARA, TEH.-TIJARA, TIJARA ROAD, DISTT.-ALWAR (RAJ.)

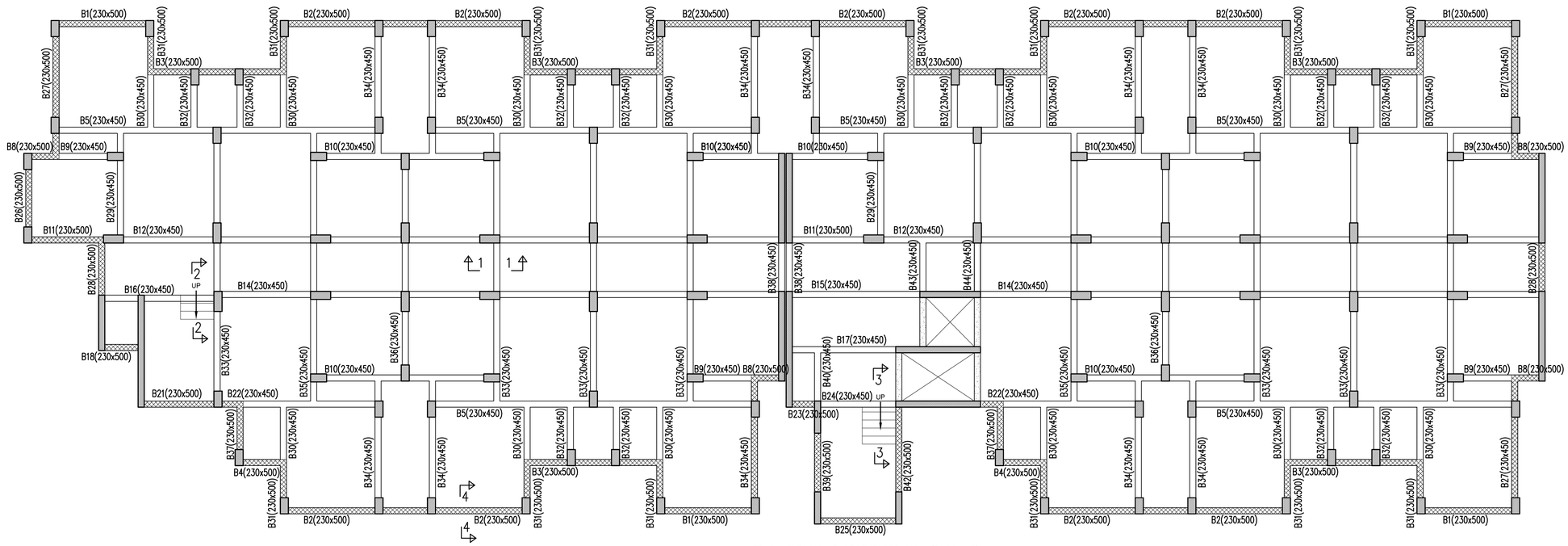
DRAWING TITLE: FOUNDATION PLAN (TOP EXTRA REINF.) (BLOCK-E)
DWG NO. ST-12

DRAWN BY: –	M.S	SCALE: –	N.T.S
DESIGN BY: –	S.A	DATE: –	15-02-2025
CHECK BY: –	R.K	PROJECT NO: –	4743

ARCHITECTS:
CREATIVE STUDIO
AR. MANSINGH MEENA
317, THIRD FLOOR, KRISH SQUARE, OPP. MODERN PUBLIC SCHOOL, BHAGAT SINGH COLONY, BHIWADI, ALWAR (RAJ.)
Web.-www.csbhiwadi.com, Email id-info@csbhiwadi.com
MOB: – 09460478315, PH: – 01493-491200

STRUCTURAL CONSULTANT:
RELIABLE CONSULTING ENGINEERS
87, SECTOR -30, GURGAON-122001, HARYANA
Email-rce8730@gmail.com

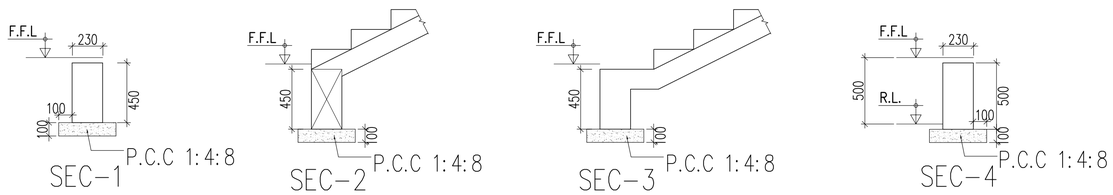
DRAWING RELEASED FOR:
☐ APPROVAL ■ SUBMISSION
☐ ADVANCE COPY ☐ CONSTRUCTION



FRAMING PLAN AT STILT FLOOR LVL. (BLOCK-E)

ALL EXTERNAL BEAMS ARE 230x500 THK. (U.N.O.)

ALL INTERNAL BEAMS ARE 230x450 THK. (U.N.O.)



GENERAL NOTES:-

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2. ALL DIMENSIONS & LEVELS ARE IN MILIMETERS.
3. DO NOT SCALE ANY DIMENSION.
4. CONFIRM LOCATION OF WALLS & OPENINGS WITH RELEVANT ARCH. DRGS.
5. THE REINFORCEMENT SHALL BE COLDTWISTED DEFORMED BARS (C.T.D) OR T.M.T. BARS HAVING YIELD.
   STRENGTH NOT LESS THAN 550(SD) N/mm^2 AND CONFORMING TO I.S. 1786 – 1979.
6. GRADE OF CONCRETE SHALL BE M30.
7. THE CLEAR COVER TO THE REINFORCEMENT SHALL BE AS FOLLOWS:-
   (a) FOOTING : 50 MM
   (b) COLUMN : 40 MM
   (c) BEAM : 25 MM
   (d) SLAB : 20 MM
   (e) SHEAR WALL : 30 MM
   (f) RETAINING WALL : 30 MM

   NOMINAL COVER IS THE DEPTH OF CONCRETE COVER TO ALL STEEL REINFORCEMENT INCLUDING LINKS/ TIES/ STIRRUPS.
8. NOT MORE THAN 50% OF THE BARS SHALL BE LAPPED AT ANY SECTION. LAPS CLOSE TO THE MID SPAN IN BOTTOM BARS & CLOSE TO SUPPORTS IN TOP BARS SHALL BE AVOIDED.
9. ---------- INDICATES BOTTOM BARS
   ——— INDICATES TOP BARS
   OPENING IN STRUCTURAL ELEMENT
   P.C.C WORK
   BRICK WORK
10. ALL R.C.C. TO BE MACHINE MIXED, VIBRATED AND CURED THOROUGHLY AS PER I.S 456-LATEST.
11. ALL FOOTING ARE CENTRALY PLACED WITH RESPECTED TO THE CENTER LINE OF COLUMN.
12. REINFORCEMENT SHALL BE PROVIDED IN TWO LAYERS WHEREVER FOUND NECESSARY WITH SPACER BAR TO BE PROVIDED BETWEEN TWO LAYERS OF REINFORCEMENTS AS PER IS: 456. SPACER BAR
13. ALL DIMENSIONS MUST BE CHECKED WITH ARCHITECT'S DRGS.& IN CASE OF ANY DISCRIPANCY ARCHITECTS DRGS. SHALL PREVAIL.
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17. All ANGLES ARE RIGHT ANGLES UNLESS OTHERWISE SPECIFIED.
18. PROVIDE DIST STEEL OVER EXTRA TOP BARS IS: 8@200 c/c (8")
19. ALL LOOSE POCKETS OF SOIL BELOW FOUNDATION SHALL BE FILLED WITH P.C.C.1: 4: 8.

R0	15-02-2025	FOR SUBMISSION
REV.NO.	DATE	REVISION

PROJECT:

PROPOSED GROUP HOUSING AT KHASRA NO :-
205,206,207,208,209,210/679,
216,217,218,215/693,215/699, AT
VILLAGE TAPUKARA, TEH.- TIJARA
TIJARA ROAD, DISTT.-ALWAR (RAJ.)

DRAWING TITLE:	DWG NO.
STILT FLOOR LVL. FRAMING PLAN (BLOCK-E)	ST-13

DRAWN BY:-	JAKHAR	SCALE:-	N.T.S
DESIGN BY:-	S.A	DATE:-	15-02-2025
CHECK BY:-	S.A	PROJECT NO:-	4743

ARCHITECTS:

NISARG TREHAN
ARCHITECTURE AND INTERIORS
SECTOR-38, GURGAON-122001, HARYANA

STRUCTURAL CONSULTANT:

RELIABLE CONSULTING ENGINEERS
87, SECTOR -30, GURGAON-122001, HARYANA
Email-rce8730@gmail.com

Rakesh Kumar 17.2.2025
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87, Sector-30, Gurugram (HR.)

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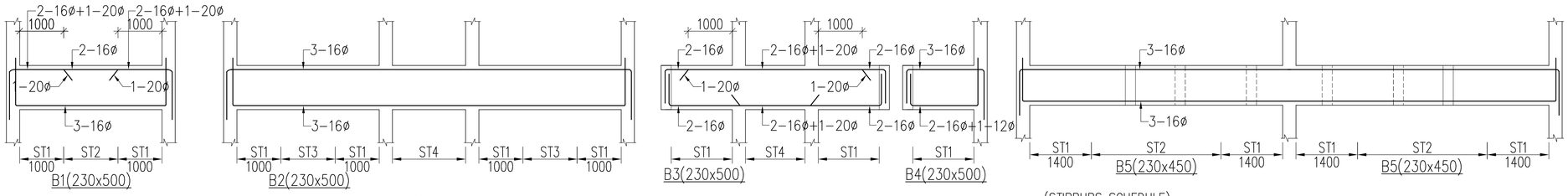
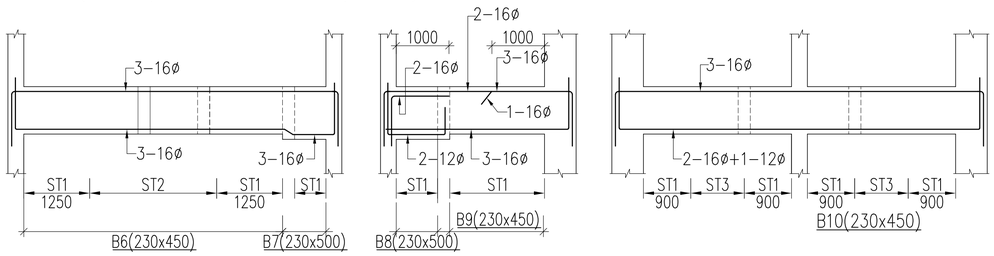
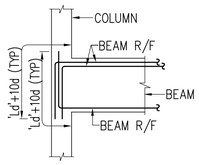






TYPICAL R/F DETAIL AT COLUMN BEAM JUNCTION

(STIRRUPS SCHEDULE)

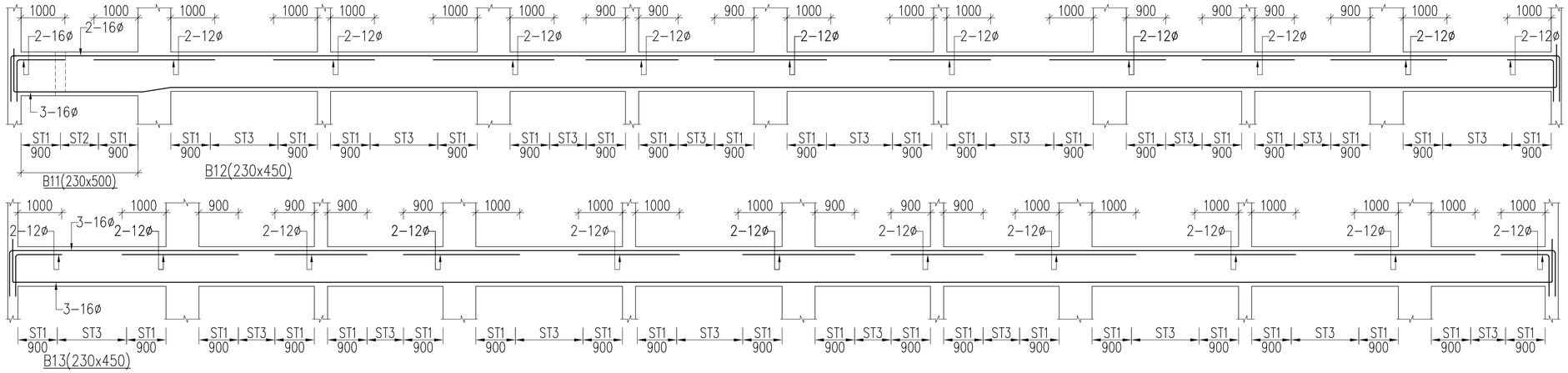
(MARK)	(DESCRIPTION)
ST1	8ø-(2L)@100c/c
ST2	8ø-(2L)@150c/c
ST3	8ø-(2L)@200c/c
ST4	10ø-(2L)@100c/c
ST5	10ø-(2L)@150c/c
ST6	10ø-(2L)@200c/c

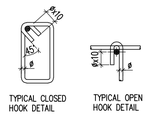
LAP LENGTH FOR Fe-550 & M-30 IN COMPRESSION ZONE

DIA OF BAR	LENGTH IN mm
25	1000
20	800
16	640
12	480
10	400
8	320

LAP LENGTH FOR Fe-550 & M-30 IN TENSION ZONE

DIA OF BAR	LENGTH IN mm
25	1250
20	1000
16	800
12	600
10	500
8	400





Rakesh Kumar 17.2.2025
B.E. (Civil), M.S. (Structures)
Chartered Engineer
FIE-1293156, FIV-17032
Reliable Consulting Engineers
87, Sector-30, Gurugram (HR.)

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R0	15-02-2025	FOR SUBMISSION

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DRAWING TITLE: BEAM DETAIL AT STILT FLOOR LVL. (BLOCK-E)

DWG NO. ST-14

DRAWN BY:-	JAKHAR	SCALE:-	N.T.S
DESIGN BY:-	S.A	DATE:-	15-02-2025
CHECK BY:-	S.A	PROJECT NO:-	4743

ARCHITECTS:

NISARG TREHAN
ARCHITECTURE AND INTERIORS
SECTOR-38, GURGAON-122001, HARYANA

STRUCTURAL CONSULTANT:

RELIABLE CONSULTING ENGINEERS
87, SECTOR -30, GURGAON-122001, HARYANA
Email-rce8730@gmail.com

DRAWING RELEASED FOR:

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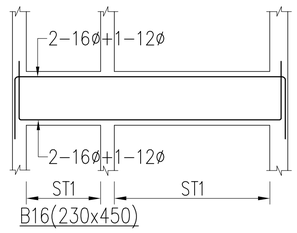

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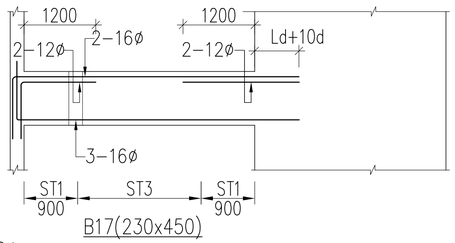

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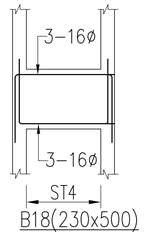

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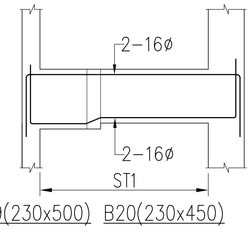

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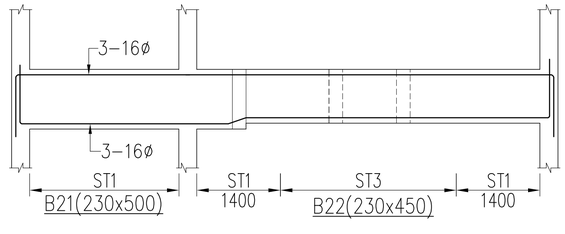

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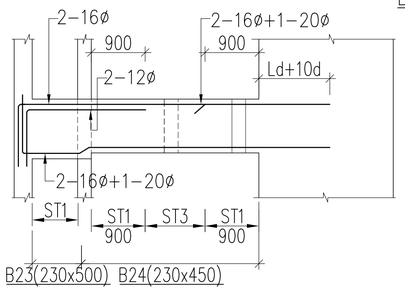

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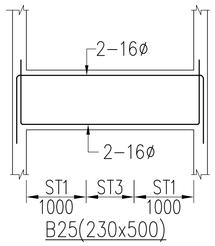

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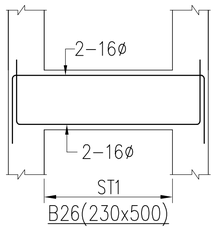

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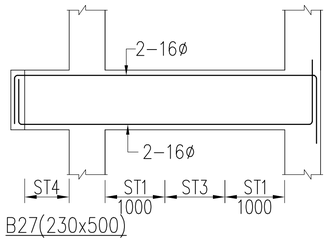

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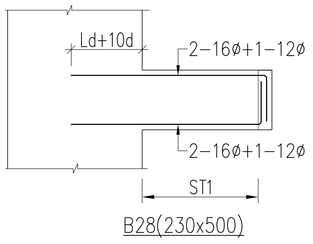

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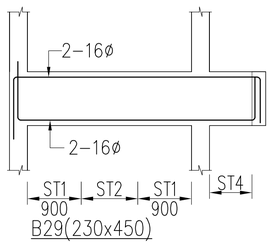

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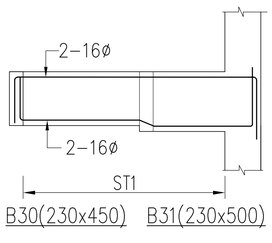

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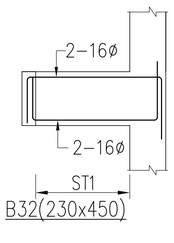

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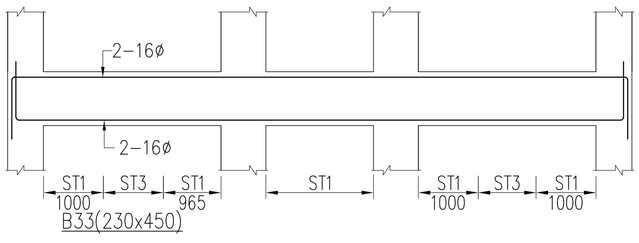

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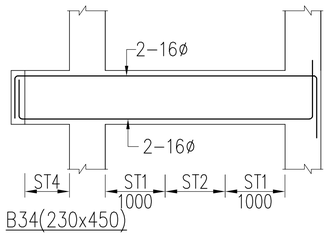

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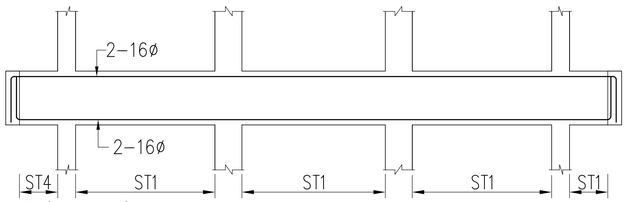

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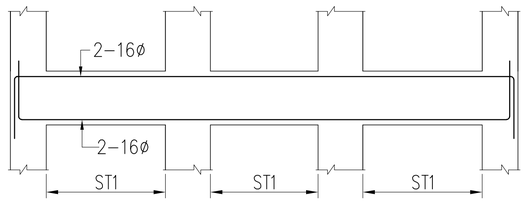

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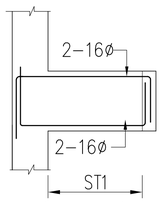

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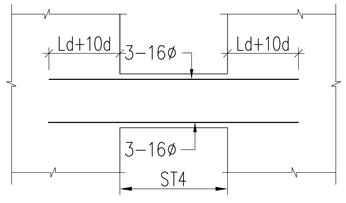

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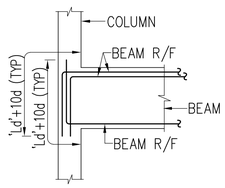

TYPICAL R/F DETAIL AT
COLUMN BEAM JUNCTION

(STIRRUPS SCHEDULE)

(MARK)	(DESCRIPTION)
ST1	8ø-(2L)@100c/c
ST2	8ø-(2L)@150c/c
ST3	8ø-(2L)@200c/c
ST4	10ø-(2L)@100c/c
ST5	10ø-(2L)@150c/c
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LAP LENGTH FOR
Fe-550 & M-30 IN
COMPRESSION ZONE

DIA OF BAR	LENGTH IN mm
25	1000
20	800
16	640
12	480
10	400
8	320

LAP LENGTH FOR
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DIA OF BAR	LENGTH IN mm
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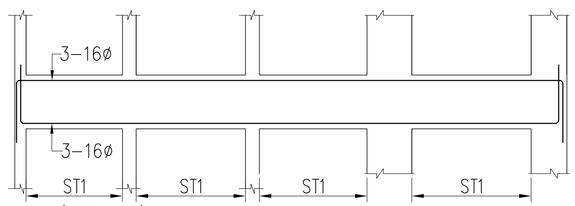

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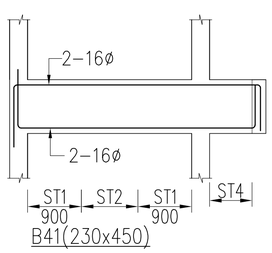

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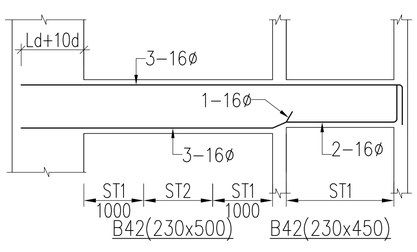

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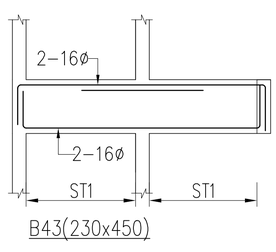

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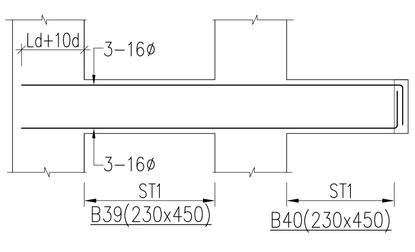

B39(230x450) B40(230x450)

Rakesh
Rakesh Kumar 17.2.2025
B.E. (Civil), M.S. (Structures)
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216,217,218,215/693,215/699, AT
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TIJARA ROAD, DISTT.-ALWAR (RAJ.)

DRAWING TITLE:	DWG NO.
BEAM DETAIL AT STILT FLOOR LVL. (BLOCK–E)	ST–15

DRAWN BY: –	JAKHAR	SCALE: –	N.T.S
DESIGN BY: –	S.A	DATE: –	15–02–2025
CHECK BY: –	S.A	PROJECT NO: –	4743

ARCHITECTS:

NISARG TREHAN
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STRUCTURAL CONSULTANT:

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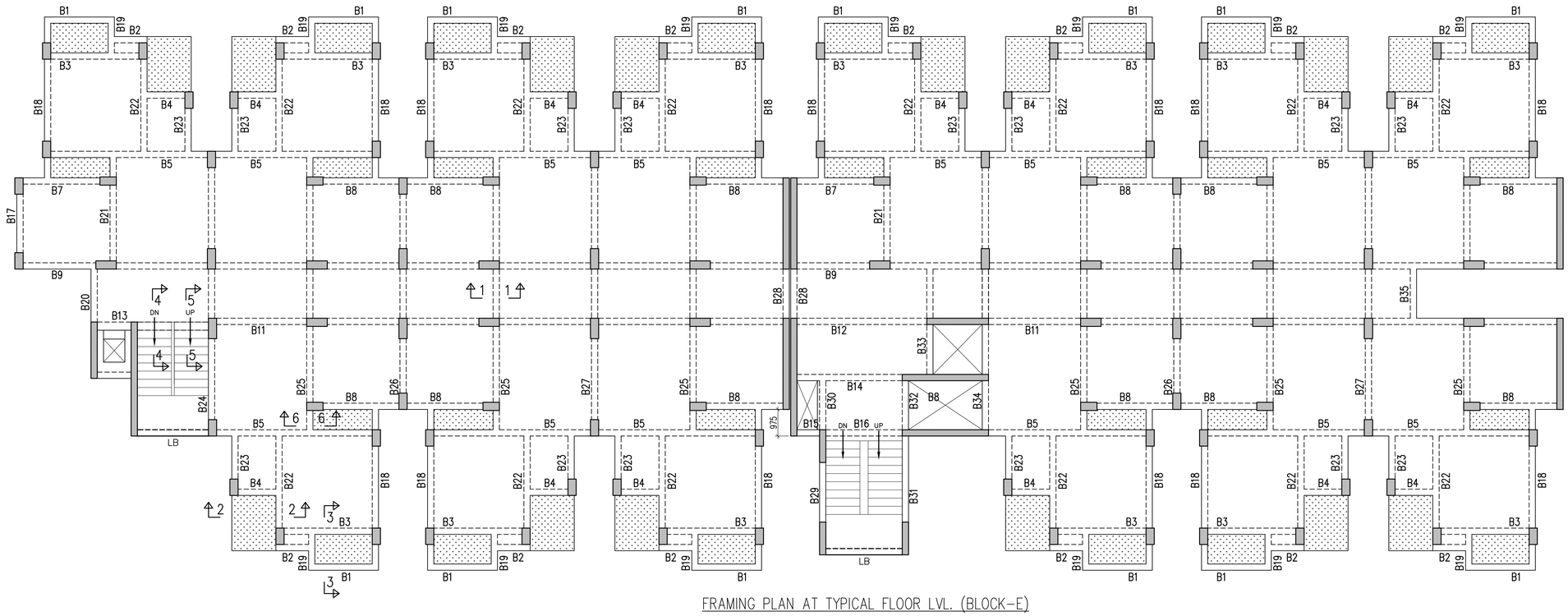
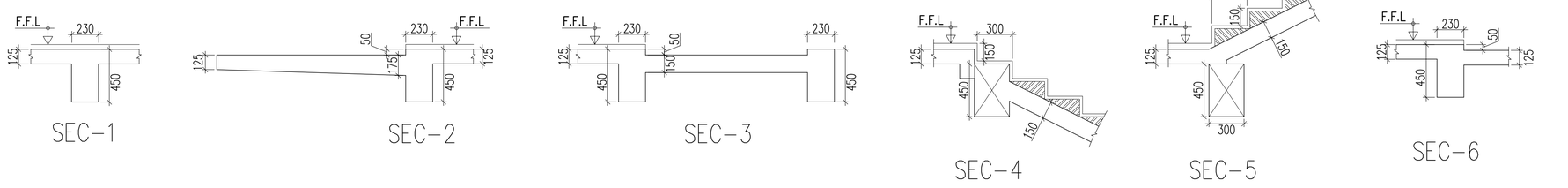


FRAMING PLAN AT TYPICAL FLOOR LVL. (BLOCK-E)

ALL BEAMS ARE 230x450 THK. (U.N.O.)

ALL SLABS ARE 125mm THK. (U.N.O.)



SEC-1 SEC-2 SEC-3 SEC-4 SEC-5 SEC-6

Rakesh 17.2.2025

Rakesh Kumar
B.E. (Civil), M.S. (Structures)
Chartered Engineer
FIE-1293156, FIV-17032
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205,206,207,208,209,210/679,
216,217,218,215/693,215/699, AT VILLAGE TAPUKARA, TEH.- TIJARA TIJARA ROAD, DISTT.-ALWAR (RAJ.)

DRAWING TITLE:	DWG NO.
FRAMING PLAN AT TYPICAL FLOOR LVL. (BLOCK–E)	ST–16

DRAWN BY: –	JAKHAR	SCALE: –	N.T.S
DESIGN BY: –	S.A	DATE: –	15–02–2025
CHECK BY: –	S.A	PROJECT NO: –	4743

ARCHITECTS:

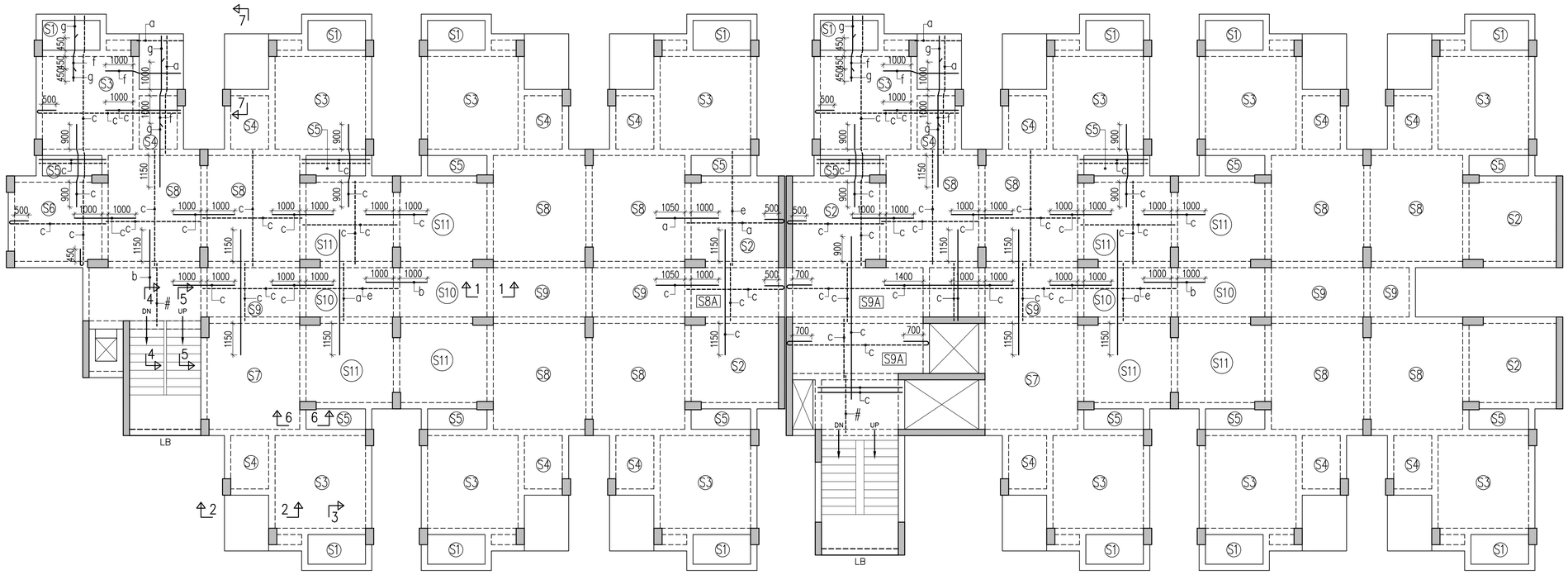
NISARG TREHAN
ARCHITECTURE AND INTERIORS
SECTOR–38, GURGAON–122001, HARYANA

STRUCTURAL CONSULTANT:

RELIABLE CONSULTING ENGINEERS
87, SECTOR –30, GURGAON–122001, HARYANA
Email–rce8730@gmail.com

DRAWING RELEASED FOR:

☐ APPROVAL ■ SUBMISSION
☐ ADVANCE COPY ☐ CONSTRUCTION



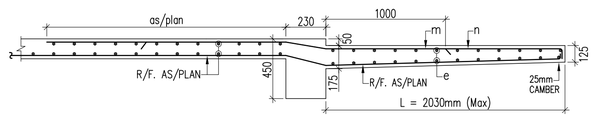
SLAB R/F. PLAN AT TYPICAL FLOOR LVL. (BLOCK-E)

ALL SLABS ARE 125mm THK. (U.N.O.)

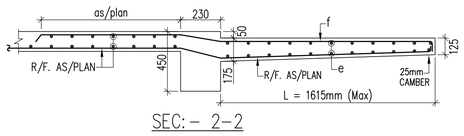
ALL DISTRIBUTION BARS SHALL BE 8ø@200c/c (U.N.O)

(SLAB R/F SCHEDULE)

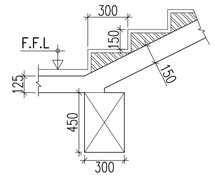
(MARK)	(DESCRIPTION)
a	8ø@100c/c
b	8ø@150c/c
c	8ø@200c/c
d	10ø@100c/c



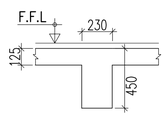
SEC:- 7-7



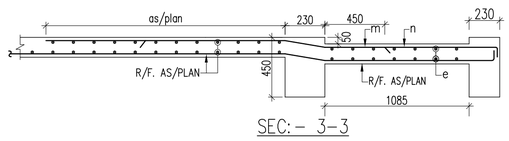
SEC:- 2-2



SEC-5



SEC-1



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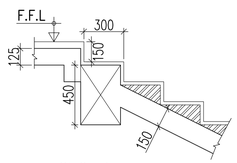
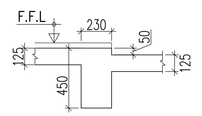


SEC-4



SEC-6

Rakesh Kumar 17.2.2025
B.E. (Civil), M.S. (Structures)
Chartered Engineer
FIE-1293156, FIV-17032
Reliable Consulting Engineers
87, Sector-30, Gurugram (HR.)

GENERAL NOTES:-

1. READ THIS DRAWING IN CONJUNCTION WITH RELEVANT ARCHITECTURAL DRAWINGS. ANY DISCREPANCY IF FOUND SHALL BE BROUGHT TO THE NOTICE OF CONSULTANT.
2. ALL DIMENSIONS & LEVELS ARE IN MILIMETERS.
3. DO NOT SCALE ANY DIMENSION.
4. CONFIRM LOCATION OF WALLS & OPENINGS WITH RELEVANT ARCH. DRGS.
5. THE REINFORCEMENT SHALL BE COLDTWISTED DEFORMED BARS (C.T.D) OR T.M.T. BARS HAVING YIELD.STRENGTH NOT LESS THAN
   550(SD) N/mm² AND CONFORMING TO I.S. 1786 – 1979.
6. GRADE OF CONCRETE SHALL BE M30.
7. THE CLEAR COVER TO THE REINFORCEMENT SHALL BE AS FOLLOWS:-
   (a) FOOTING : 50 MM
   (b) COLUMN : 40 MM
   (c) BEAM : 25 MM
   (d) SLAB : 20 MM
   (e) SHEAR WALL : 30 MM
   (f) RETAINING WALL : 30 MM

   NOMINAL COVER IS THE DEPTH OF CONCRETE COVER TO ALL STEEL REINFORCEMENT INCLUDING LINKS/ TIES/ STIRRUPS.
8. NOT MORE THAN 50% OF THE BARS SHALL BE LAPPED AT ANY SECTION. LAPS CLOSE TO THE MID SPAN IN BOTTOM BARS & CLOSE TO SUPPORTS IN TOP BARS SHALL BE AVOIDED.
9. INDICATES BOTTOM BARS
   INDICATES TOP BARS
   OPENING IN STRUCTURAL ELEMENT
   P.C.C WORK
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17. All ANGLES ARE RIGHT ANGLES UNLESS OTHERWISE SPECIFIED.
18. PROVIDE DIST STEEL OVER EXTRA TOP BARS IS: 8ø@200 c/c (8")
19. ALL LOOSE POCKETS OF SOIL BELOW FOUNDATION SHALL BE FILLED WITH P.C.C.1: 4: 8.

R0	15-02-2025	FOR SUBMISSION
REV.NO.	DATE	REVISION

PROJECT:

PROPOSED GROUP HOUSING AT KHASRA NO :-
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216,217,218,215/693,215/699, AT
VILLAGE TAPUKARA, TEH.- TIJARA
TIJARA ROAD, DISTT.-ALWAR (RAJ.)

DRAWING TITLE:
SLAB DETAIL AT TYPICAL FLOOR LVL.
(BLOCK-E)

DWG NO. ST-17

DRAWN BY:-	JAKHAR	SCALE:-	N.T.S
DESIGN BY:-	S.A	DATE:-	15-02-2025
CHECK BY:-	S.A	PROJECT NO:-	4743

ARCHITECTS:

NISARG TREHAN
ARCHITECTURE AND INTERIORS
SECTOR-38, GURGAON-122001, HARYANA

STRUCTURAL CONSULTANT:

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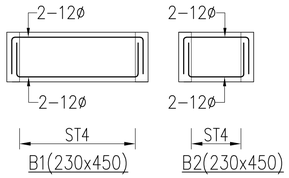

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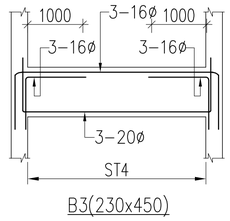

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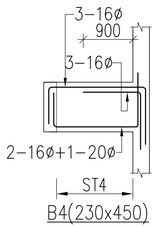

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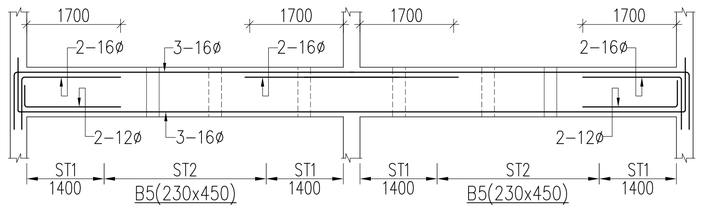

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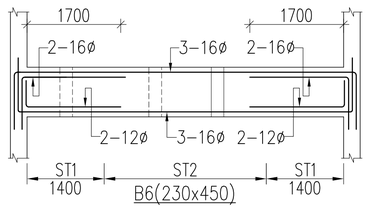

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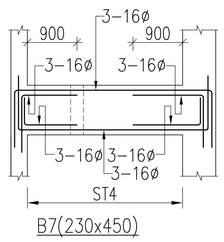

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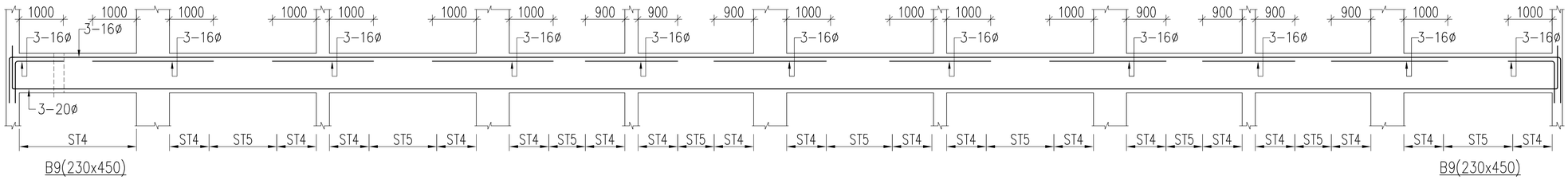

B9(230x450)

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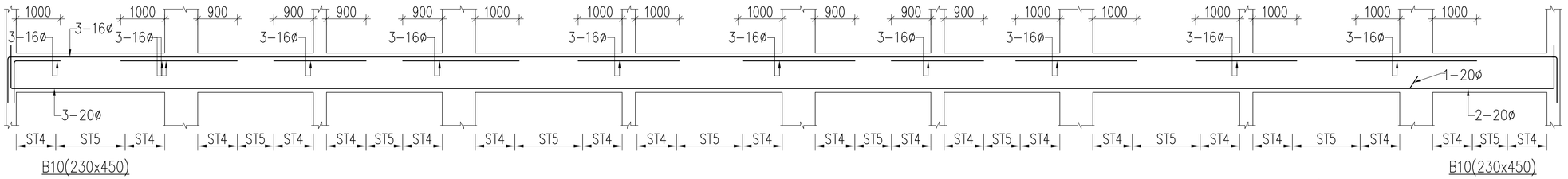

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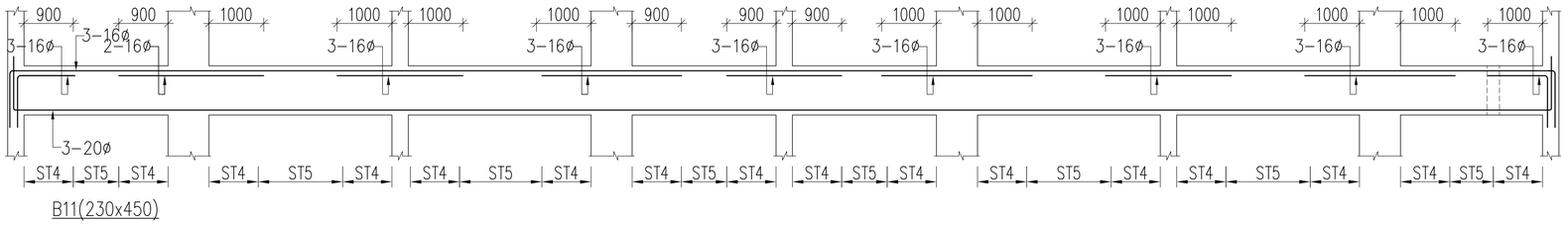

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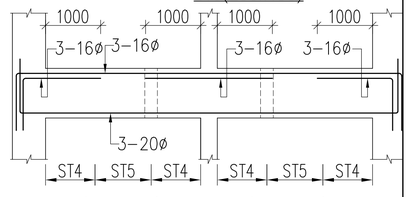
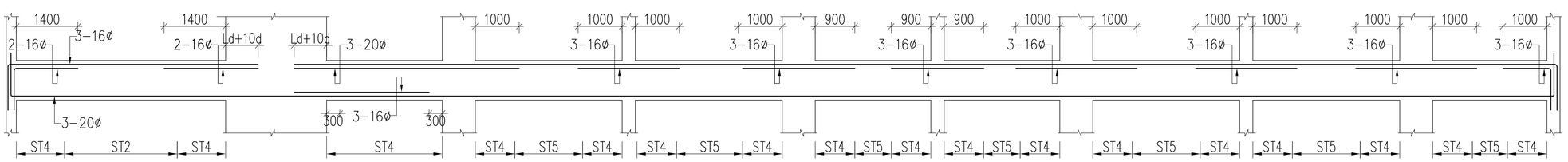


B8(230x450)

B8(230x450)



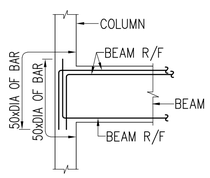
B12(230x450)

LAP LENGTH FOR Fe-550 & M-30 IN COMPRESSION ZONE

DIA OF BAR	LENGTH IN mm
25	1000
20	800
16	640
12	480
10	400
8	320

LAP LENGTH FOR Fe-550 & M-30 IN TENSION ZONE

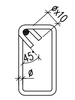
DIA OF BAR	LENGTH IN mm
25	1250
20	1000
16	800
12	600
10	500
8	400



TYPICAL R/F DETAIL AT COLUMN BEAM JUNCTION

(STIRRUPS SCHEDULE)

(MARK)	(DESCRIPTION)
ST1	8ø-(2L)@100c/c
ST2	8ø-(2L)@150c/c
ST3	8ø-(2L)@200c/c
ST4	10ø-(2L)@100c/c
ST5	10ø-(2L)@150c/c
ST6	10ø-(2L)@200c/c



TYPICAL CLOSED HOOK DETAIL

TYPICAL OPEN HOOK DETAIL

Rakesh
17.2.2025
Rakesh Kumar
B.E. (Civil), M.S. (Structures)
Chartered Engineer
FIE-1293156, FIV-17032
Reliable Consulting Engineers
87, Sector-30, Gurugram (HR.)

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R0	15-02-2025	FOR SUBMISSION
REV.NO.	DATE	REVISION

PROJECT:

PROPOSED GROUP HOUSING AT KHASRA NO :- **205,206,207,208,209,210/679,** 216,217,218,215/693,215/699, AT VILLAGE TAPUKARA, TEH.- TIJARA TIJARA ROAD, DISTT.-ALWAR (RAJ.)

DRAWING TITLE: BEAM DETAIL AT TYPICAL FLOOR LVL. (BLOCK-E)

DWG NO. ST-18

DRAWN BY:-	JAKHAR	SCALE:-	N.T.S
DESIGN BY:-	S.A	DATE:-	15-02-2025
CHECK BY:-	S.A	PROJECT NO:-	4743

ARCHITECTS:

NISARG TREHAN
ARCHITECTURE AND INTERIORS
SECTOR-38, GURGAON-122001, HARYANA

STRUCTURAL CONSULTANT:

RELIABLE CONSULTING ENGINEERS
87, SECTOR -30, GURGAON-122001, HARYANA
Email-rce8730@gmail.com

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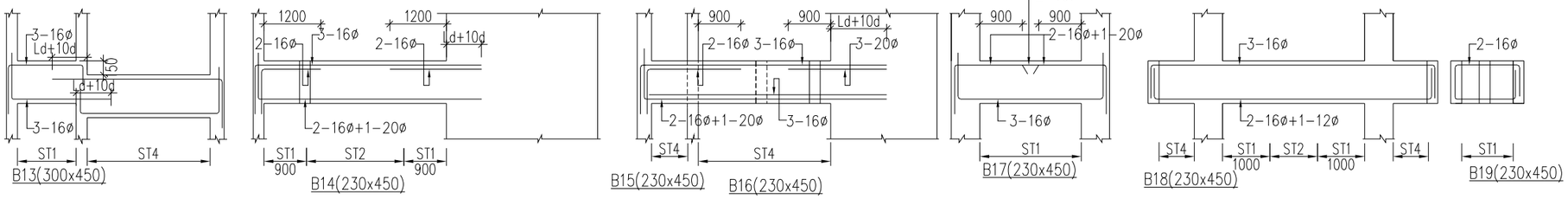

LAP LENGTH FOR Fe-550 & M-30 IN COMPRESSION ZONE

DIA OF BAR	LENGTH IN mm
25	1000
20	800
16	640
12	480
10	400
8	320

LAP LENGTH FOR Fe-550 & M-30 IN TENSION ZONE

DIA OF BAR	LENGTH IN mm
25	1250
20	1000
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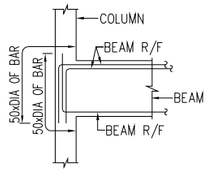
8	400



TYPICAL R/F DETAIL AT COLUMN BEAM JUNCTION

(STIRRUPS SCHEDULE)

(MARK)	(DESCRIPTION)
ST1	8ø-(2L)@100c/c
ST2	8ø-(2L)@150c/c
ST3	8ø-(2L)@200c/c
ST4	10ø-(2L)@100c/c
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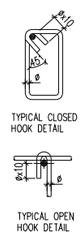
ST6	10ø-(2L)@200c/c



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   ——— INDICATES TOP BARS
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Rakesh Kumar 17.2.2025
B.E. (Civil), M.S. (Structures)
Chartered Engineer
FIE-1293156, FIV-17032
Reliable Consulting Engineers
87, Sector-30, Gurugram (HR.)

REV.NO.	DATE	REVISION
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PROJECT:

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DRAWING TITLE:	DWG NO.
BEAM DETAIL AT TYPICAL FLOOR LVL. (BLOCK-E)	ST-19

DRAWN BY: –	JAKHAR	SCALE: –	N.T.S
DESIGN BY: –	S.A	DATE: –	15-02-2025
CHECK BY: –	S.A	PROJECT NO: –	4743

ARCHITECTS:

NISARG TREHAN
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