

M.R.F SHED LAYOUT PLAN

GENERAL NOTES

1. ALL DIMENSIONS ARE IN MM ONLY WRITTEN DIMENSION ARE TO BE FOLLOWED. DIMENSIONS IN STRUCTURAL DRAWING SHOULD NOT BE SCALED.
2. STRUCTURAL DRAWING SHOULD BE READ IN CONNECTION WITH RELEVANT ARCHITECTURAL DRAWING, IN CASE OF DISCREPANCY BETWEEN ARCHITECTURAL AND STRUCTURAL DRAWING SHOULD BE IMMEDIATELY BROUGHT TO NOTICE OF EXECUTIVE ENGINEER, INDORE - 1, CPWD, INDORE (M.P.).
3. M-20MIX- MIX CONCRETE AND TMT BARS (FE-500D) SHALL BE USED IN CONSTRUCTION.

REINFORCING STEEL

1. ALL REINFORCING STEEL WILL BE OF TESTED QUALITY CONFIRMING TO IS: 1786 LATEST.
2. REFER TO HIGH YIELD STRENGTH DEFORMED BARS WITH CHARACTERISTIC STRENGTH OF 500 N/SQ.MM.
3. THE CLEAR COVER TO REINFORCEMENT SHALL BE AS FOLLOWS:-

FOUNDATION	50MM
COLUMNS	40MM
RCC WALL	25MM
FLOOR BEAM	30MM
SLABS	20MM*
- * COVER TO SECONDARY REINFORCEMENT ALSO SHALL NOT BE LESS THAN 20MM.
4. BENT UP BARS AT SUPPORT SHALL BE EXTENDED UP TO 0.3L OR L_d (WHICHEVER GREATER) IN ADJACENT SPAN OVER CONTINUOUS SUPPORT, IF EXTRA TOP IS NOT PROVIDED AND ANCHOR DOWN IN END SUPPORT FOR DEVELOPMENT LENGTH OF 50 X DIA. OF BAR MINIMUM.
5. IN SLAB, BENT UP BARS SHALL BE EXTENDED UP TO 0.3L IN ADJACENT SPAN OVER CONTINUOUS SUPPORT.
6. SLAB BARS IN SHORTER DIRECTION SHALL BE BELOW BARS FOR THE LONGER DIRECTION.
7. IN BEAM-COLUMN JUNCTION, ADEQUATE SHEAR STIRRUPS SHALL BE PROVIDED AS PER PROVISIONS OF IS:13920-2016.
8. IN BEAMS, FIRST STIRRUP SHALL BE AT NO MORE THAN 40MM FROM FACE OF THE SUPPORTING MEMBER.
9. IN BEAMS TOP BARS ARE NOT TO BE SPLICED IN THE END QUARTERS OF THE SPAN, AND THE BOTTOM BARS ARE NOT TO BE SPLICED AT MIDDLE HALF OF THE SPAN.
10. TENSION OVERLAP 50 X DIA. & COMPRESSION OVERLAP 40XDIA. OF BAR SHALL BE STAGGERED.
11. STIRRUPS SHALL BE STRICTLY PERPENDICULAR TO THE MAIN AXIS OF BEAM AND CANTILEVER BEAMS TO HAVE HOOK AT BOTTOM.
12. NOT MORE THAN ONE-THIRD OF THE COLUMN BARS SHALL BE LAPPED AT A SECTION.
13. CURTAILMENT, SPLICING OF R/F BARS, DETAILING SPECIFICATION, COMPACTION OF CONCRETE ETC. SHALL BE AS PER IS:456 - 2000, SP34.

PROJECT SPECIFIC

1. THE NET SAFE BEARING CAPACITY IS 200 KN/M². THE FOUNDATIONS SHOULD BE RESTING AT MIN. DEPTH OF 1 M FROM EGL/NGL.

SITE ENGINEERS ARE ADVISED TO VERIFY CONSTRUCTION AT SITE WITH STRUCTURAL DRAWINGS BEFORE EXECUTION FOR DEVIATIONS. STRUCTURAL ENGINEER OR ON BEHALF WILL NOT BE RESPONSIBLE.

REVISION	DATE	CHANGE

SIGN OF VETTING AUTHORITY	SIGN OF STRUCTURAL CONSULTANT

PROJECT: MATERIAL RECOVERY FACILITY & RECYCLING UNIT AT SHIRWAL, TEHSIL- KHANDALA DIST SATARA, (M.H.)

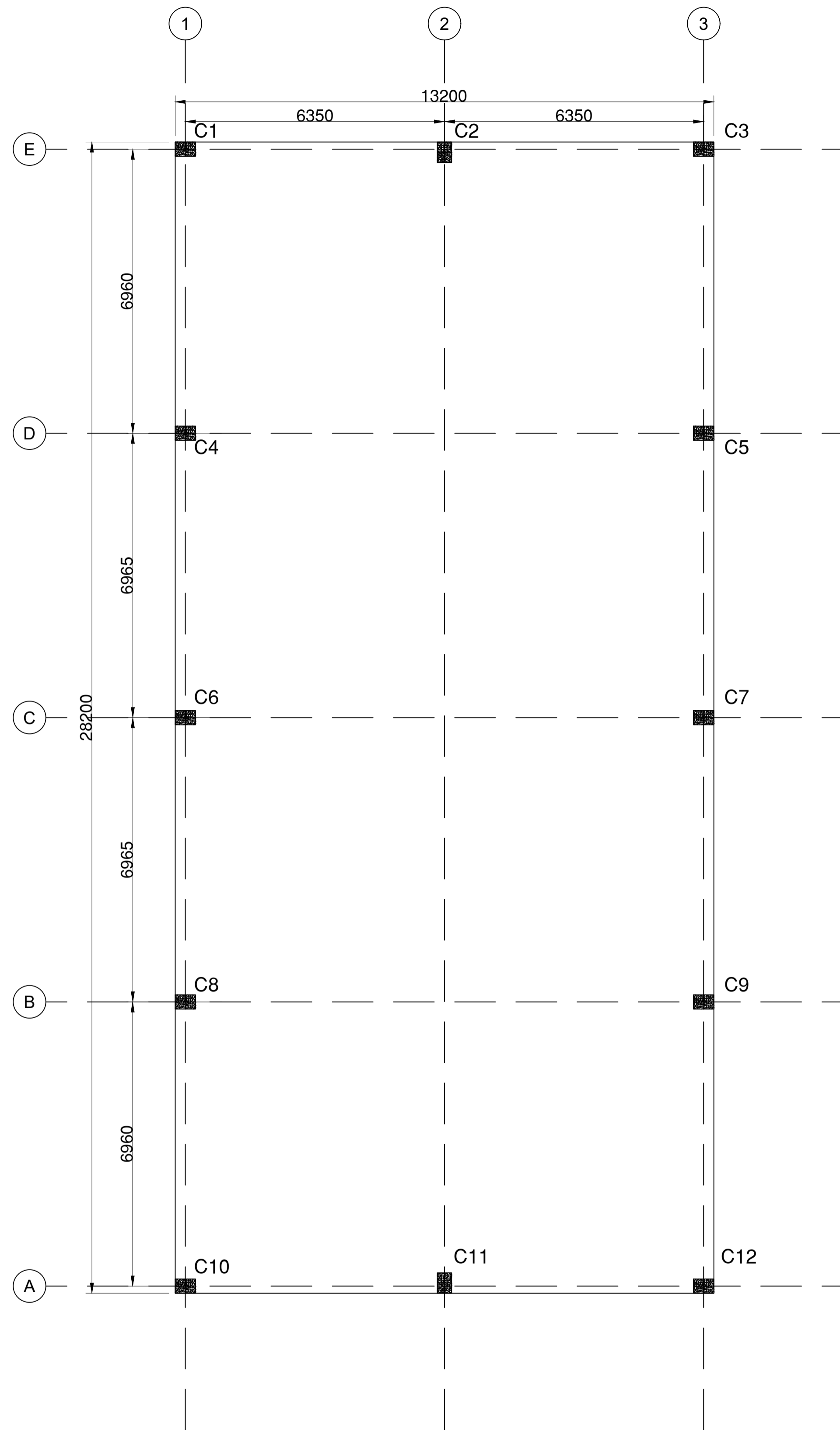


CONSULTANT
TEKNO ENGINEERING CONSULTANTS
Structural Design Solutions
Add:- Opposite Jhulelal Statue, Canal Road, Amlidih Square, New Rajendra Nagar, Raipur- 492001
Email us at:- teknostructures2016@gmail.com
Mob.No.- [M] 8871738000, [O] 0771-4063800

DWG.TITLE:
SHED LAYOUT PLAN OF MATERIAL RECOVERY FACILITY

DRAWN	DESIGN
RUPESH	SARVOTTAM

SCALE	REVISION	DWG. NO.
N.T.S.	R0	TEC/CEE/MRF/ST-01
CHECKED	DATE :-	
SARVOTTAM	22-JULY-2024	



COLUMN LAYOUT PLAN

COLUMN SCHEDULE

	M20 : Fe500 , COVER = 40mm	M20 : Fe500 , COVER = 40mm
	LINKS	LINKS
	T8 @ 150	T8 @ 150
	6-T16 + 8-T12	4-T16 + 10-T12
COLUMN MARKED	C1,C3,C4,C5,C6,C7, C8,C9,C10,C12	C2,C11

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REINFORCING STEEL

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FLOOR BEAM 30MM
SLABS 20MM*
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- BENT UP BARS AT SUPPORT SHALL BE EXTENDED UP TO 0.3L OR L_d (WHICHEVER GREATER) IN ADJACENT SPAN OVER CONTINUOUS SUPPORT, IF EXTRA TOP IS NOT PROVIDED AND ANCHOR DOWN IN END SUPPORT FOR DEVELOPMENT LENGTH OF 50 X DIA. OF BAR MINIMUM.
- IN SLAB, BENT UP BARS SHALL BE EXTENDED UP TO 0.3L IN ADJACENT SPAN OVER CONTINUOUS SUPPORT.
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- IN BEAMS, FIRST STIRRUP SHALL BE AT NO MORE THAN 40MM FROM FACE OF THE SUPPORTING MEMBER.
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REVISION	DATE	CHANGE

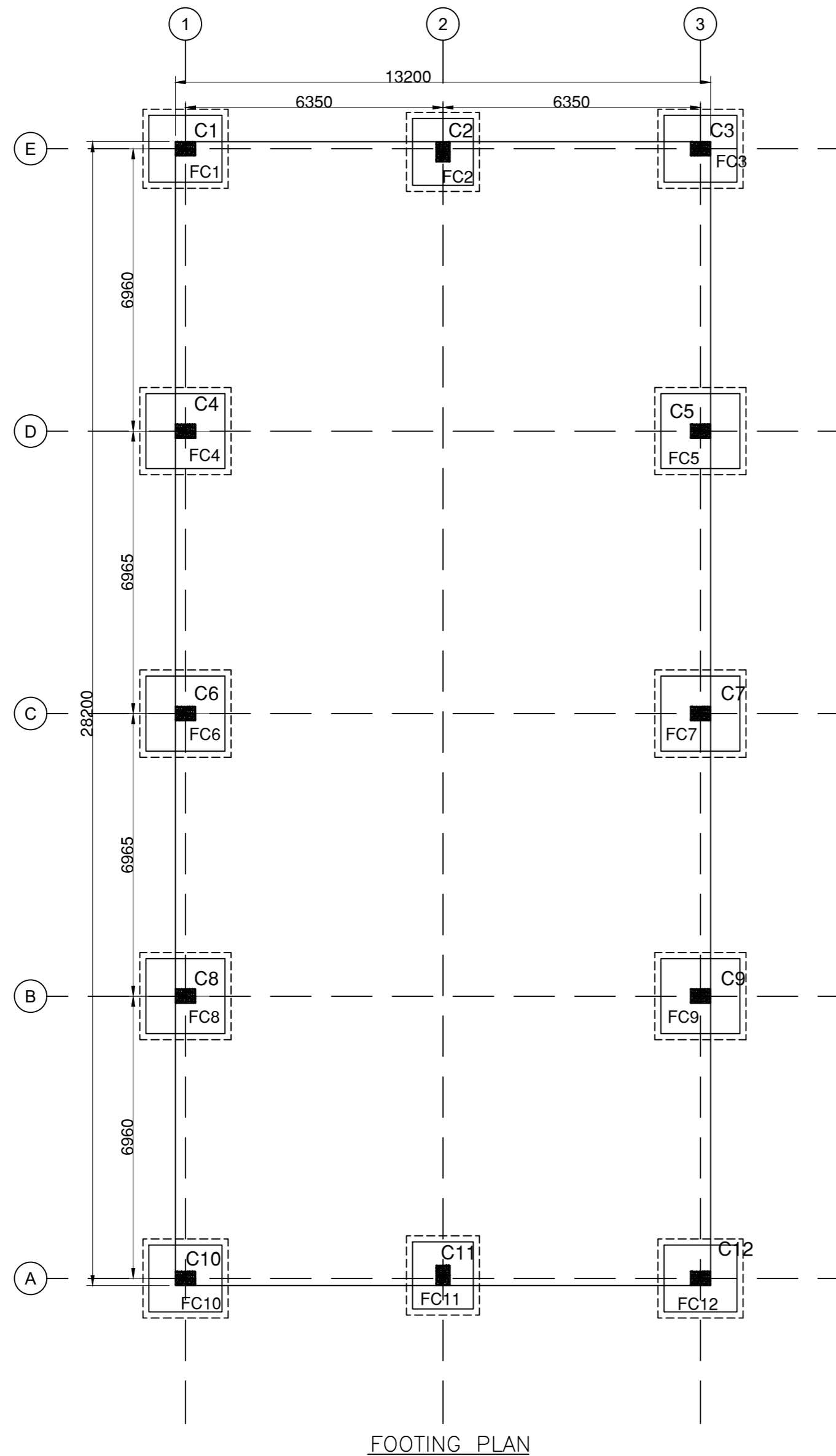
SIGN OF VETTING AUTHORITY	SIGN OF STRUCTURAL CONSULTANT

PROJECT: MATERIAL RECOVERY FACILITY & RECYCLING UNIT AT SHIRWAL, TEHSIL- KHANDALA DIST SATARA, (M.H.)



CONSULTANT
TEKNO ENGINEERING CONSULTANTS
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TEC
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Email us at:- teknostructures2016@gmail.com
Mob.No.- [M] 8871738000, [O] 0771-4063800

DWG. TITLE: COLUMN CENTER LINE PLAN & COLUMN SCHEDULE OF MATERIAL RECOVERY FACILITY		SCALE N.T.S.	REVISION R0	DWG. NO. TEC/CEE/MRF/ST-02
DRAWN RUPESH	DESIGN SARVOTTAM	CHECKED SARVOTTAM	DATE :- 22-JULY-2024	

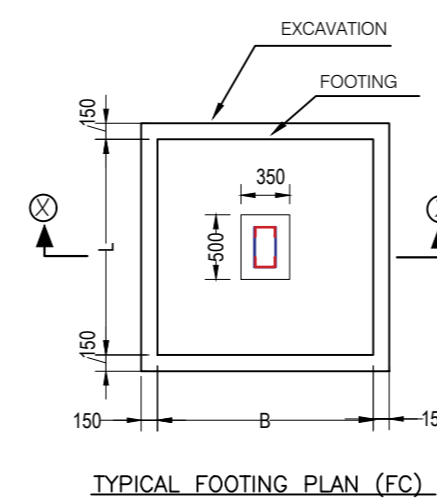


FOOTING PLAN

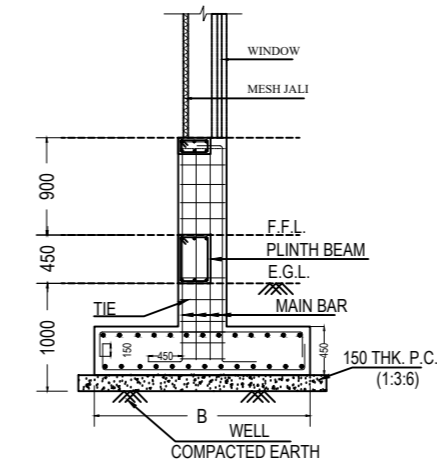
FOOTING SCHEDULE (M20:Fe500)

FOOTING NUMBERS	COLUMN NUMBERS	FOOTING TYPE	FOOTING DIMENSION			FOOTING REINFORCEMENT			
			L	B	D	BOTTOM		TOP	
						ALONG B	ALONG L	ALONG B	ALONG L
FC1	C1	Pad	1800	1650	450	T10@150 C/C	T10@150 C/C	T10@300 C/C	T10@300 C/C
FC2	C2	Pad	1650	1500	450	T10@150 C/C	T10@150 C/C	T10@300 C/C	T10@300 C/C
FC3	C3	Pad	1800	1650	450	T10@150 C/C	T10@150 C/C	T10@300 C/C	T10@300 C/C
FC4	C4	Pad	1950	1850	450	T10@150 C/C	T10@150 C/C	T10@300 C/C	T10@300 C/C
FC5	C5	Pad	1950	1850	450	T10@150 C/C	T10@150 C/C	T10@300 C/C	T10@300 C/C
FC6	C6	Pad	1950	1850	450	T10@150 C/C	T10@150 C/C	T10@300 C/C	T10@300 C/C
FC7	C7	Pad	1950	1850	450	T10@150 C/C	T10@150 C/C	T10@300 C/C	T10@300 C/C
FC8	C8	Pad	1950	1850	450	T10@150 C/C	T10@150 C/C	T10@300 C/C	T10@300 C/C
FC9	C9	Pad	1950	1850	450	T10@150 C/C	T10@150 C/C	T10@300 C/C	T10@300 C/C
FC10	C10	Pad	1800	1650	450	T10@150 C/C	T10@150 C/C	T10@300 C/C	T10@300 C/C
FC11	C11	Pad	1650	1500	450	T10@150 C/C	T10@150 C/C	T10@300 C/C	T10@300 C/C
FC12	C12	Pad	1800	1650	450	T10@150 C/C	T10@150 C/C	T10@300 C/C	T10@300 C/C

S.B.C.(200 KN/SQM)



TYPICAL FOOTING PLAN (FC)



TYPICAL FOOTING SECTION X-X

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CLIENT:  Centre for Environment Education

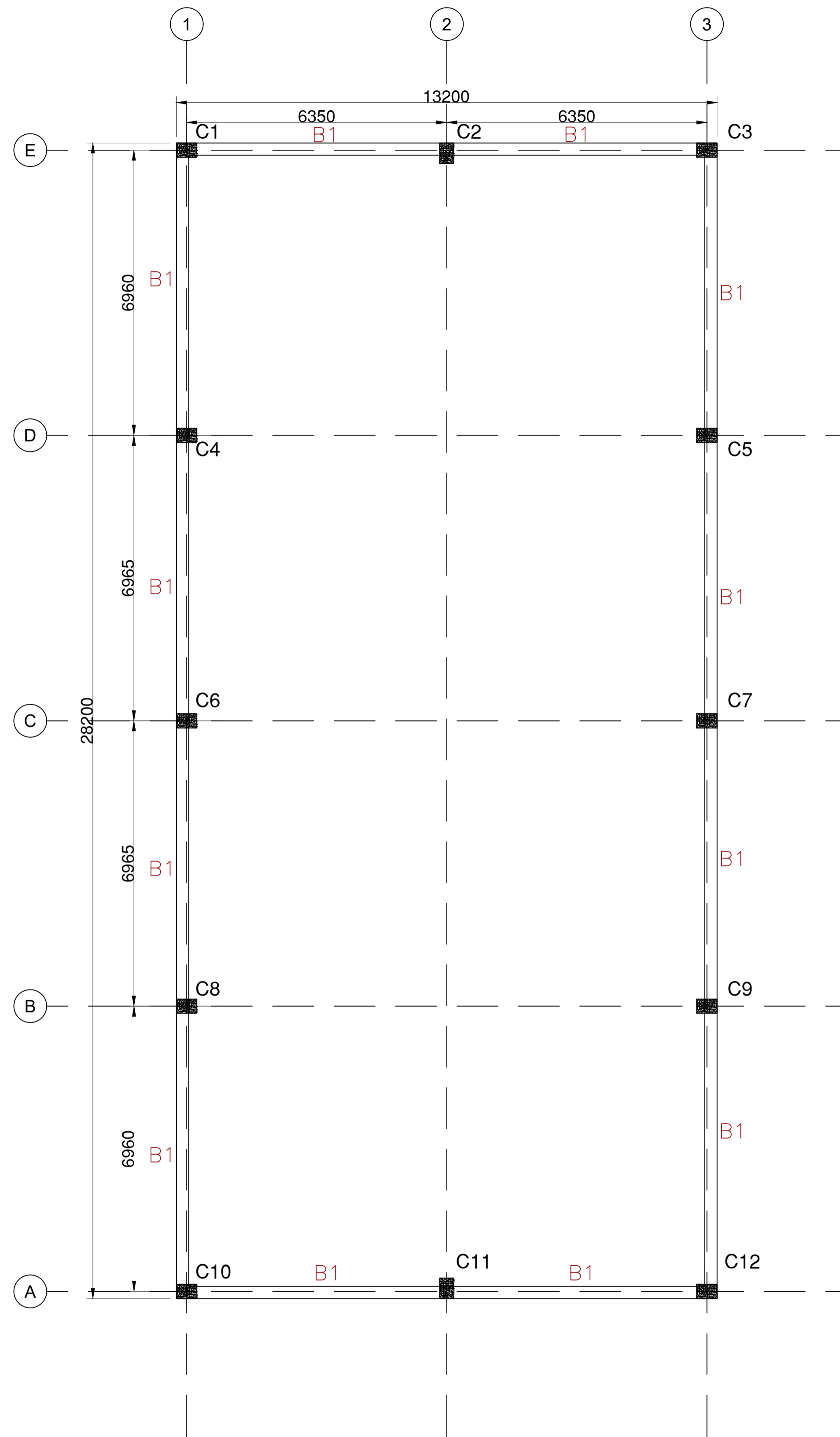
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DWG.TITLE:
FOOTING PLAN & FOOTING SCHEDULE OF MATERIAL RECOVERY FACILITY

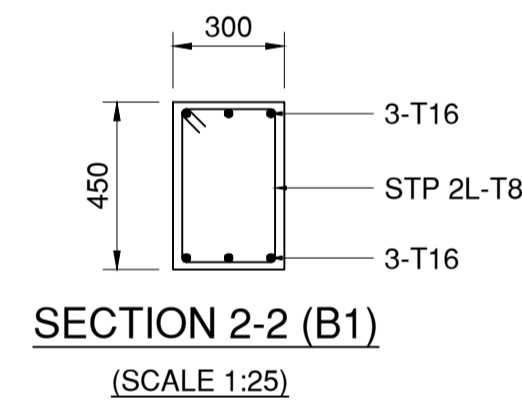
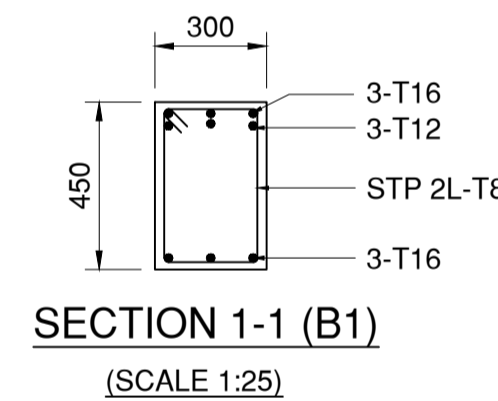
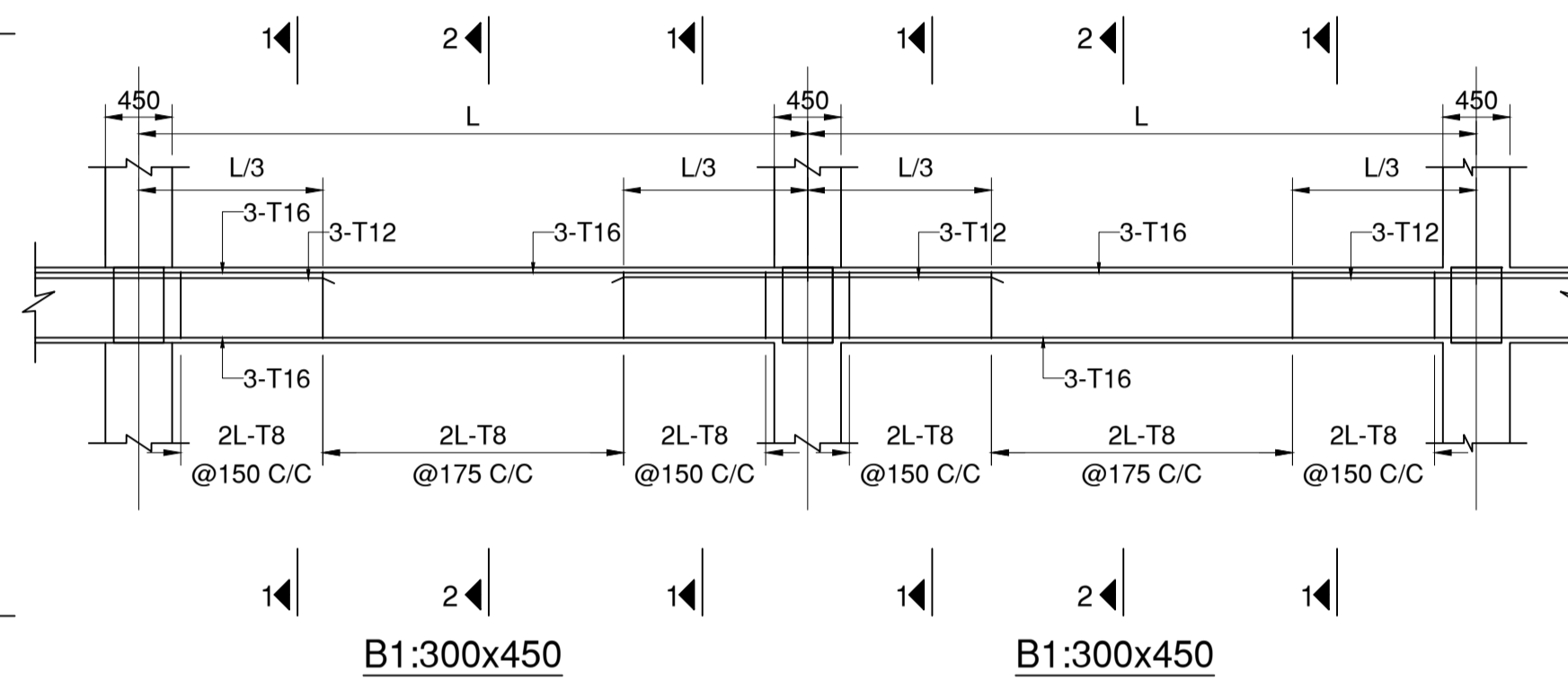
DRAWN: **RUPESH** DESIGN: **SARVOTTAM**

SCALE: N.T.S. REVISION: R0 DWG. NO.: TEC/CEE/MRF/ST-03

CHECKED: **SARVOTTAM** DATE: **22-JULY-2024**



PLINTH BEAM PLAN +0.45 M LVL.



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SIGN OF VETTING AUTHORITY	SIGN OF STRUCTURAL CONSULTANT

PROJECT: MATERIAL RECOVERY FACILITY & RECYCLING UNIT AT SHIRWAL, TEHSIL- KHANDALA DIST SATARA, (M.H.)

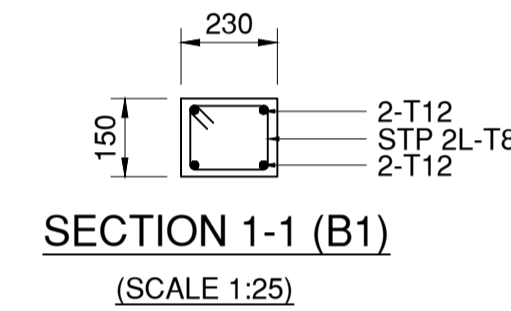
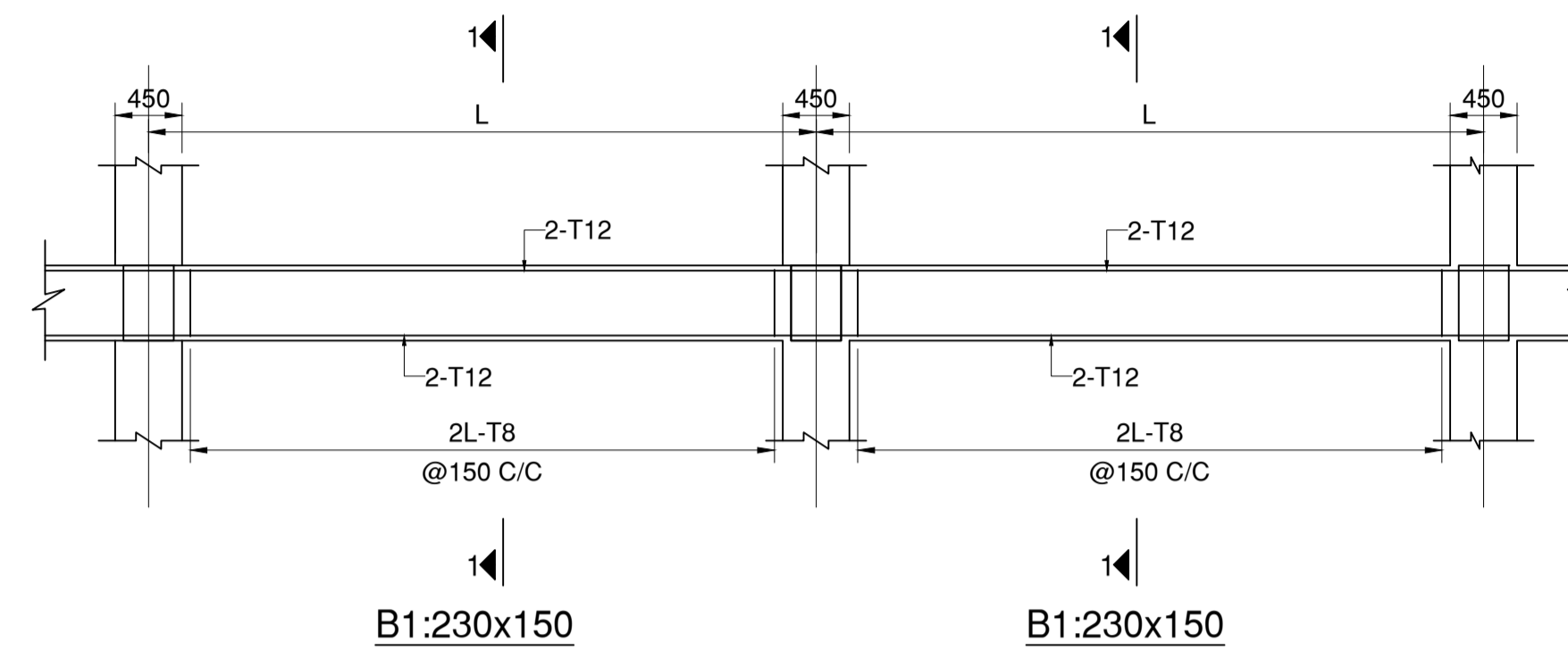
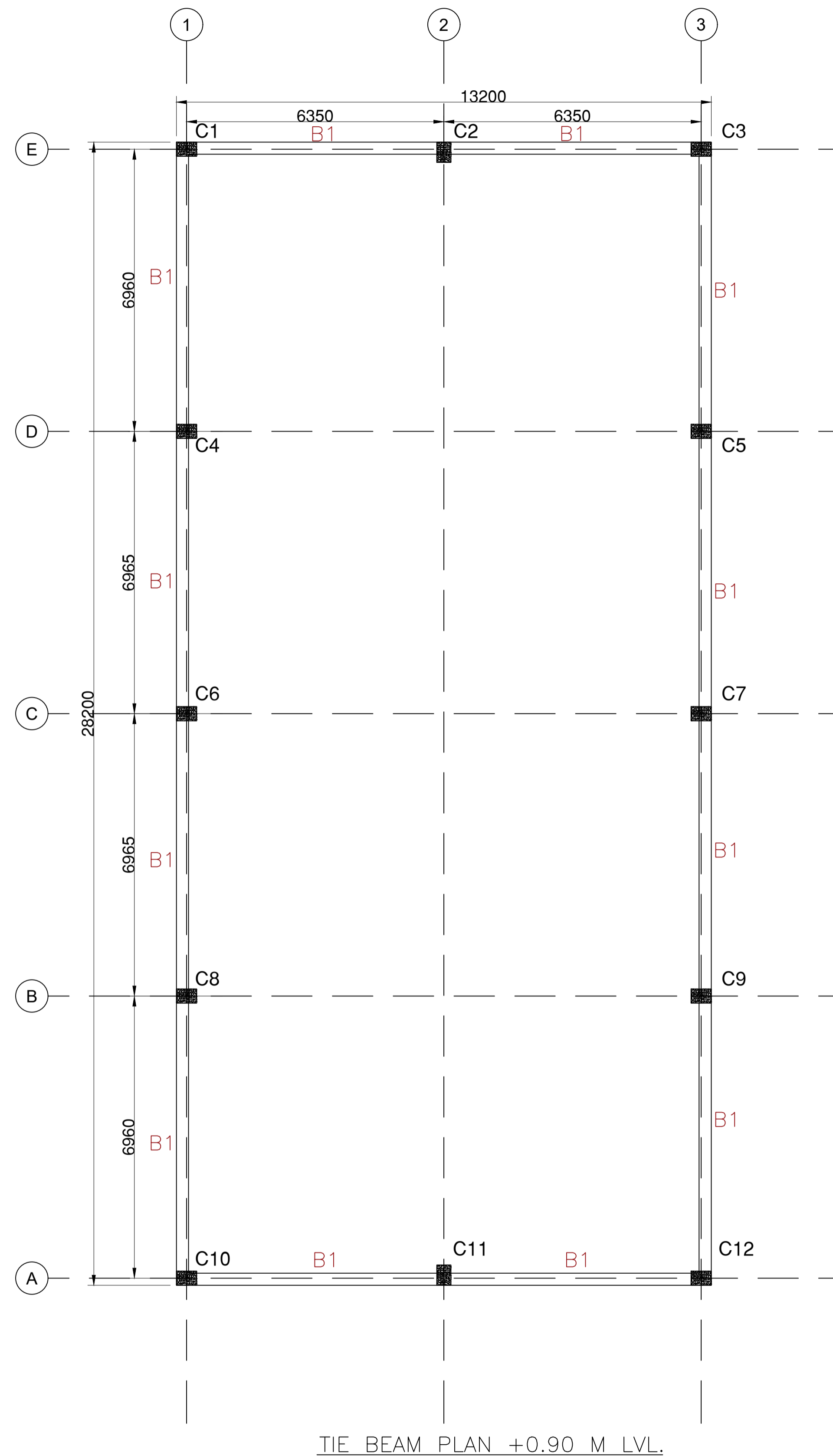


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DWG. TITLE:
PLINTH BEAM PLAN & DETAILS OF MATERIAL RECOVERY FACILITY

DRAWN	DESIGN
RUPESH	SARVOTTAM

SCALE	REVISION	DWG. NO.
N.T.S.	R0	TEC/CEE/MRF/ST-04
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DWG.TITLE:
**TIE BEAM PLAN & DETAILS OF
 MATERIAL RECOVERY FACILITY**

DRAWN	DESIGN
RUPESH	SARVOTTAM

SCALE	REVISION
N.T.S.	R0

CHECKED
SARVOTTAM

DWG. NO.
 TEC/CEE/MRF/ST-05

DATE :-
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- * COVER TO SECONDARY REINFORCEMENT ALSO SHALL NOT BE LESS THAN 20MM.
4. BENT UP BARS AT SUPPORT SHALL BE EXTENDED UP TO 0.3L OR L_d (WHICHEVER GREATER) IN ADJACENT SPAN OVER CONTINUOUS SUPPORT, IF EXTRA TOP IS NOT PROVIDED AND ANCHOR DOWN IN END SUPPORT FOR DEVELOPMENT LENGTH OF 50 X DIA. OF BAR MINIMUM.
5. IN SLAB, BENT UP BARS SHALL BE EXTENDED UP TO 0.3L IN ADJACENT SPAN OVER CONTINUOUS SUPPORT.
6. SLAB BARS IN SHORTER DIRECTION SHALL BE BELOW BARS FOR THE LONGER DIRECTION.
7. IN BEAM-COLUMN JUNCTION, ADEQUATE SHEAR STIRRUPS SHALL BE PROVIDED AS PER PROVISIONS OF IS:13920-2016.
8. IN BEAMS, FIRST STIRRUP SHALL BE AT NO MORE THAN 40MM FROM FACE OF THE SUPPORTING MEMBER.
9. IN BEAMS TOP BARS ARE NOT TO BE SPLICED IN THE END QUARTERS OF THE SPAN, AND THE BOTTOM BARS ARE NOT TO BE SPLICED AT MIDDLE HALF OF THE SPAN.
10. TENSION OVERLAP 50 X DIA. & COMPRESSION OVERLAP 40XDIA. OF BAR SHALL BE STAGGERED.
11. STIRRUPS SHALL BE STRICTLY PERPENDICULAR TO THE MAIN AXIS OF BEAM AND CANTILEVER BEAMS TO HAVE HOOK AT BOTTOM.
12. NOT MORE THAN ONE-THIRD OF THE COLUMN BARS SHALL BE LAPPED AT A SECTION.
13. CURTAILMENT, SPLICING OF R/F BARS, DETAILING SPECIFICATION, COMPACTION OF CONCRETE ETC. SHALL BE AS PER IS:456 - 2000, SP34.

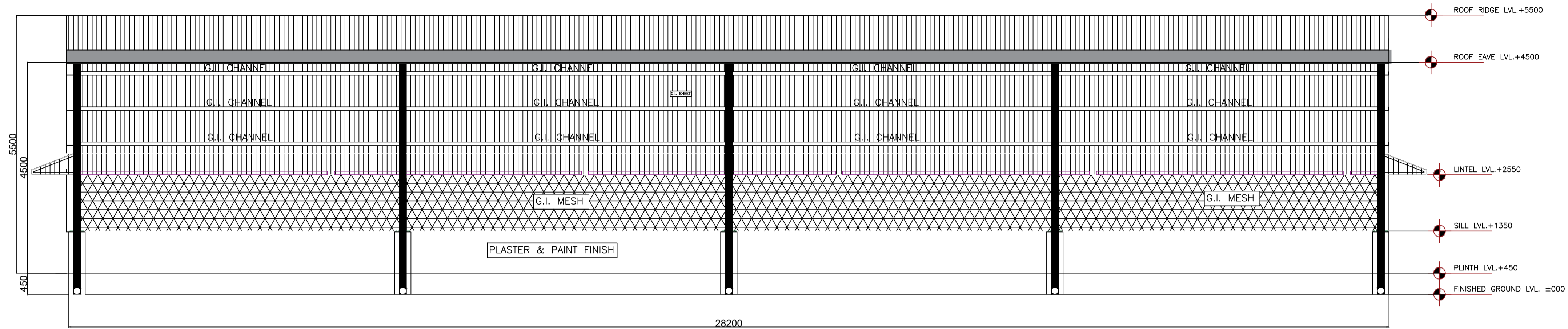
PROJECT SPECIFIC

1. THE NET SAFE BEARING CAPACITY IS 200 KN/M². THE FOUNDATIONS SHOULD BE RESTING AT MIN. DEPTH OF 1 M FROM EGL/NGL.

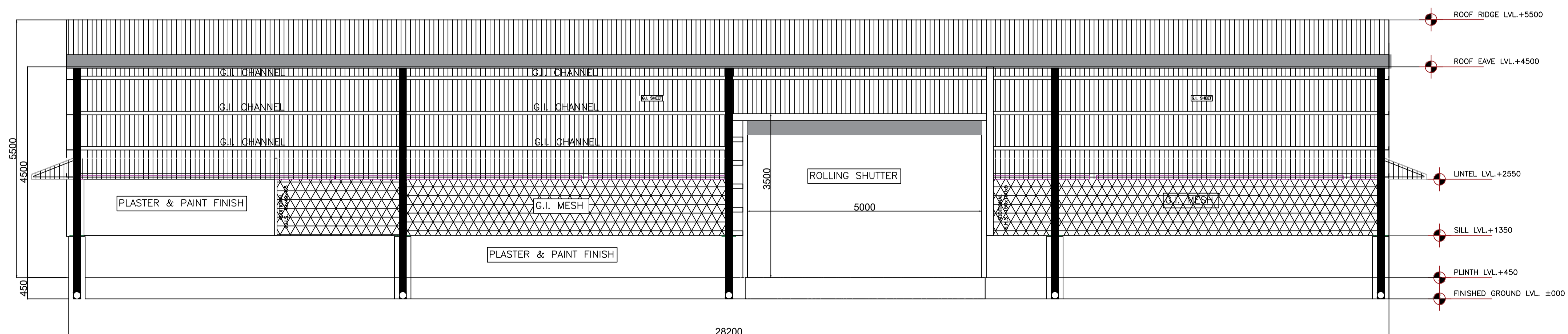
SITE ENGINEERS ARE ADVISED TO VERIFY CONSTRUCTION AT SITE WITH STRUCTURAL DRAWINGS BEFORE EXECUTION FOR DEVIATIONS, STRUCTURAL ENGINEER OR ON BEHALF WILL NOT BE RESPONSIBLE.

REVISION	DATE	CHANGE

SIGN OF VETTING AUTHORITY	SIGN OF STRUCTURAL CONSULTANT



RIGHT SIDE ELEVATION



LEFT SIDE ELEVATION

PROJECT: MATERIAL RECOVERY FACILITY & RECYCLING UNIT AT SHIRWAL, TEHSIL- KHANDALA DIST SATARA, (M.H.)

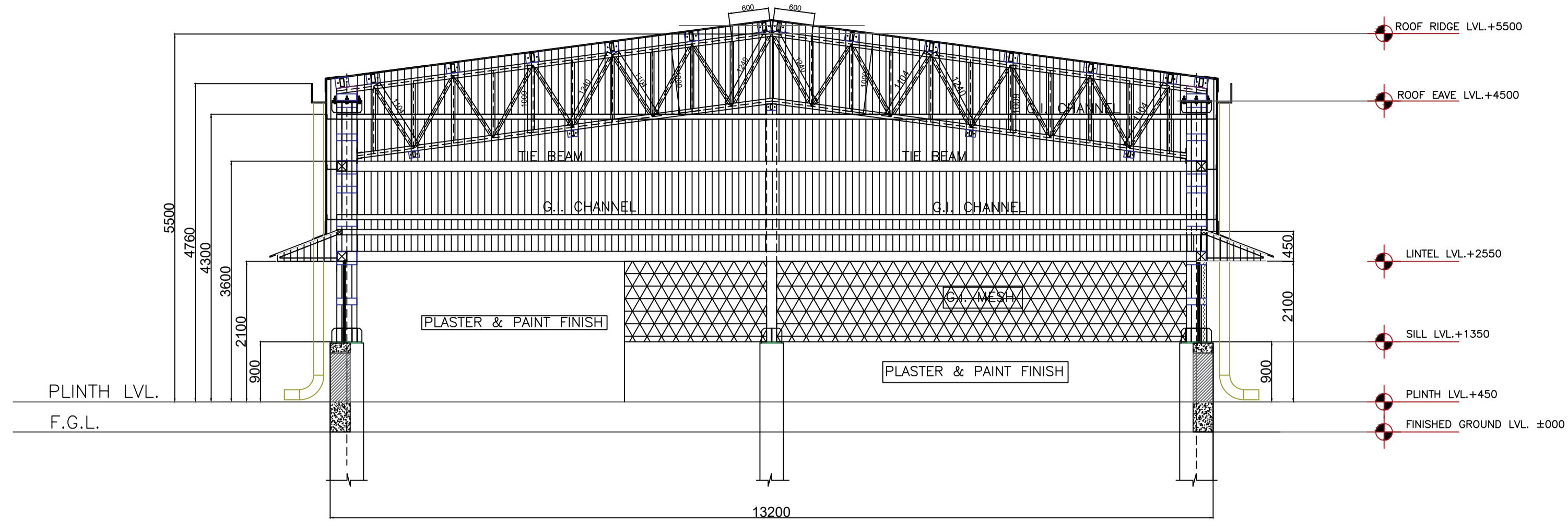


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 Mob.No.- [M] 8871738000, [O] 0771-4063800

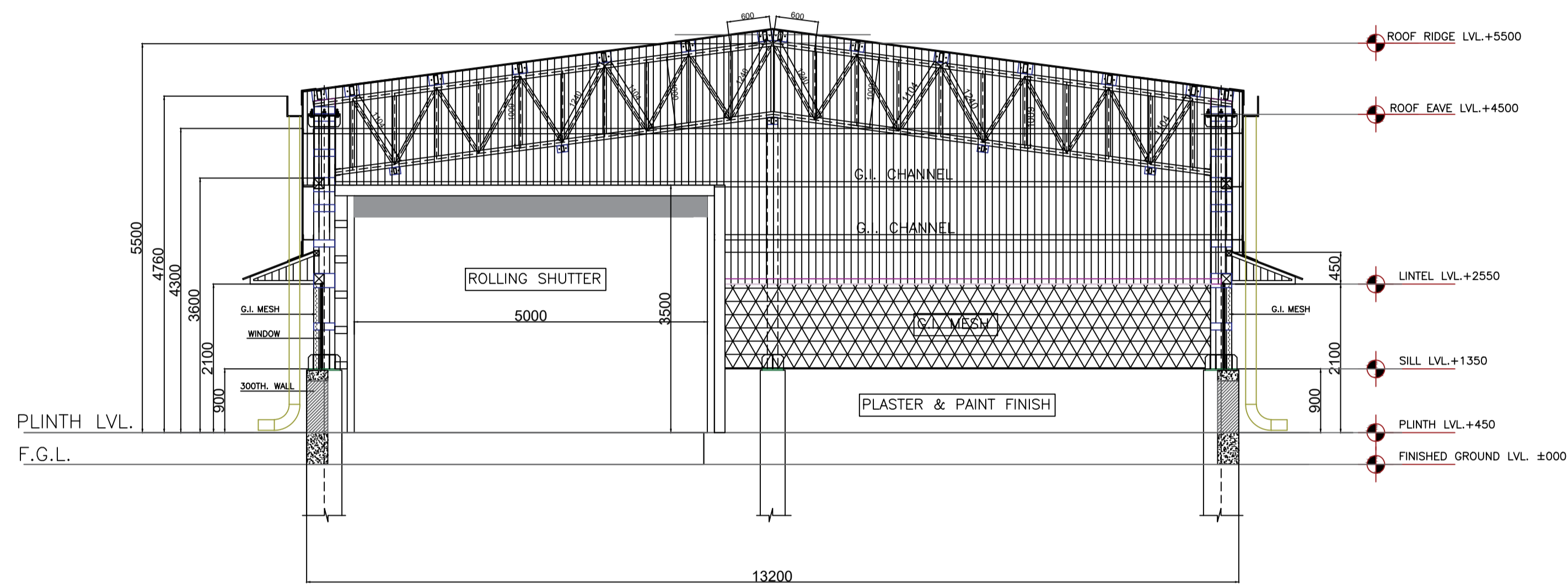
DWG. TITLE:
RIGHT & LEFT SIDE ELEVATION OF MATERIAL RECOVERY FACILITY

DRAWN	DESIGN
RUPESH	SARVOTTAM

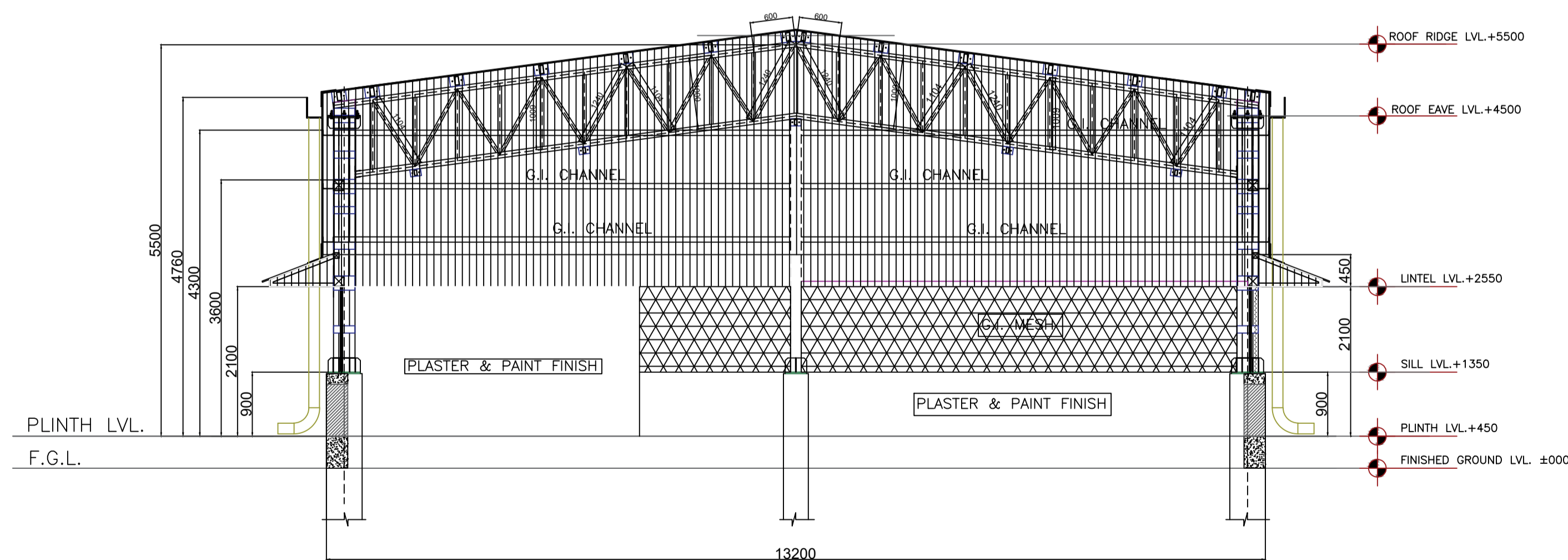
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N.T.S.	R0	TEC/CEE/MRF/ST-06
CHECKED	DATE :-	
SARVOTTAM	22-JULY-2024	



SECTION VIEW 1-1



FRONT ELEVATION



BACK ELEVATION

GENERAL NOTES

1. ALL DIMENSIONS ARE IN MM ONLY WRITTEN DIMENSION ARE TO BE FOLLOWED. DIMENSIONS IN STRUCTURAL DRAWING SHOULD NOT BE SCALED.
2. STRUCTURAL DRAWING SHOULD BE READ IN CONNECTION WITH RELEVANT ARCHITECTURAL DRAWING, IN CASE OF DISCREPANCY BETWEEN ARCHITECTURAL AND STRUCTURAL DRAWING SHOULD BE IMMEDIATELY BROUGHT TO NOTICE OF OFFICE OF EXECUTIVE ENGINEER, INDORE - I, CPWD, INDORE (M.P.).
3. M-20MIX- MIX CONCRETE AND TMT BARS (FE-500D) SHALL BE USED IN CONSTRUCTION.

REINFORCING STEEL

1. ALL REINFORCING STEEL WILL BE OF TESTED QUALITY CONFIRMING TO IS: 1786 LATEST.
2. REFER TO HIGH YIELD STRENGTH DEFORMED BARS WITH CHARACTERISTIC STRENGTH OF 500 N/SQ.MM.
3. THE CLEAR COVER TO REINFORCEMENT SHALL BE AS FOLLOWS:-

FOUNDATION	50MM
COLUMNS	40MM
RCC WALL	25MM
FLOOR BEAM	30MM
SLABS	20MM*
- * COVER TO SECONDARY REINFORCEMENT ALSO SHALL NOT BE LESS THAN 20MM.
4. BENT UP BARS AT SUPPORT SHALL BE EXTENDED UP TO 0.3L OR L_d (WHICHEVER GREATER) IN ADJACENT SPAN OVER CONTINUOUS SUPPORT, IF EXTRA TOP IS NOT PROVIDED AND ANCHOR DOWN IN END SUPPORT FOR DEVELOPMENT LENGTH OF 50 X DIA. OF BAR MINIMUM.
5. IN SLAB, BENT UP BARS SHALL BE EXTENDED UP TO 0.3L IN ADJACENT SPAN OVER CONTINUOUS SUPPORT.
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7. IN BEAM-COLUMN JUNCTION, ADEQUATE SHEAR STIRRUPS SHALL BE PROVIDED AS PER PROVISIONS OF IS:13920-2016.
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PROJECT SPECIFIC

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REVISION	DATE	CHANGE
SIGN OF VETTING AUTHORITY		SIGN OF STRUCTURAL CONSULTANT

PROJECT: MATERIAL RECOVERY FACILITY & RECYCLING UNIT AT SHIRWAL, TEHSIL- KHANDALA DIST SATARA, (M.H.)



CONSULTANT
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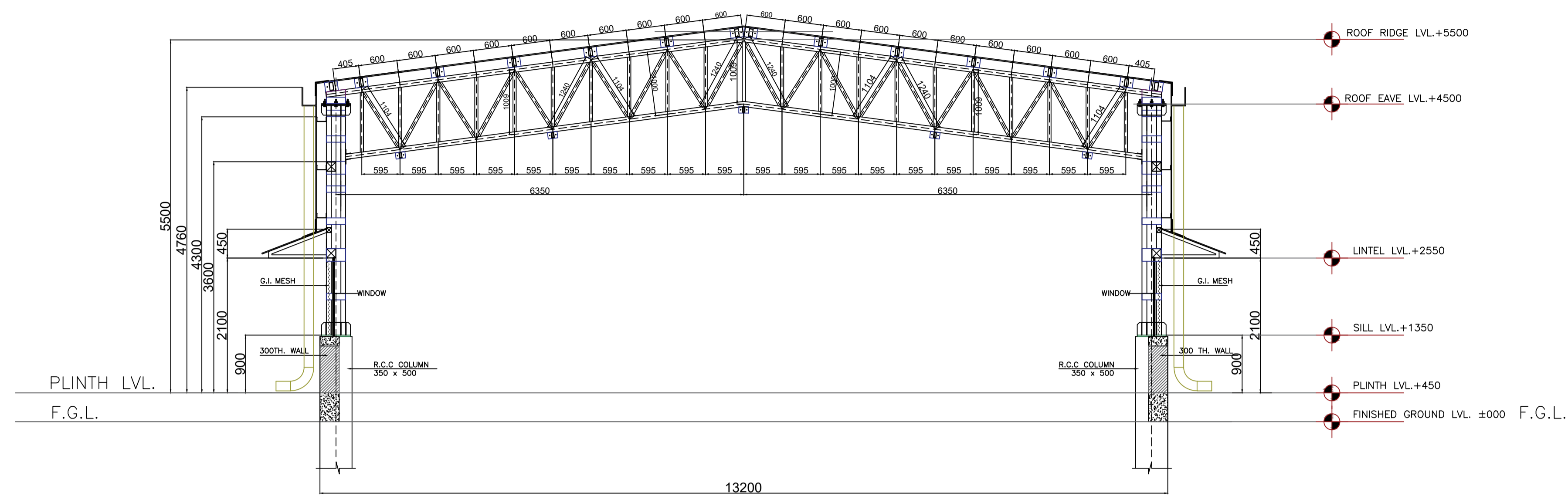
DWG.TITLE:
FRONT & BACK ELEVATION OF MATERIAL RECOVERY FACILITY

DRAWN: RUPESH
 DESIGN: SARVOTTAM

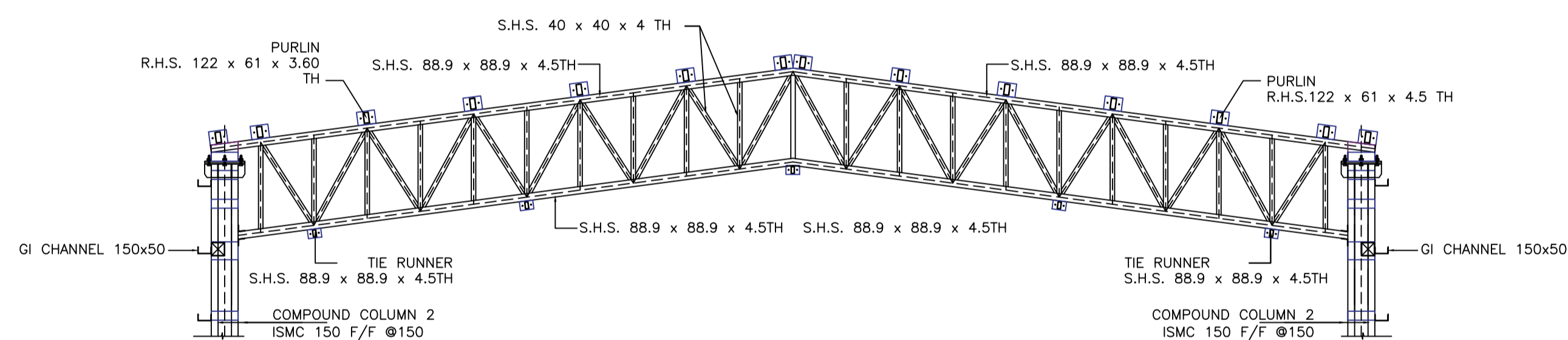
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CHECKED: SARVOTTAM

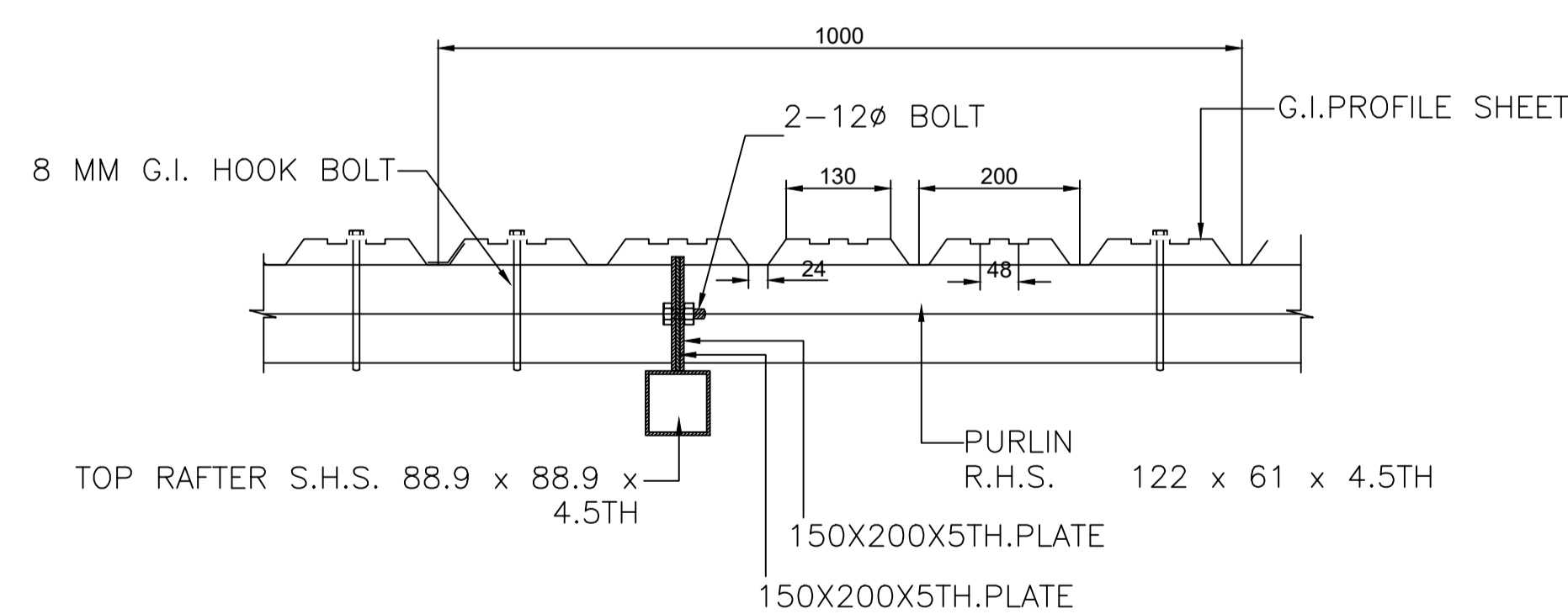
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 DATE :- 22-JULY-2024



TRUSS DETAILS TRUSS-T01



TRUSS DETAILS TRUSS-T01



TYPICAL DETAILS OF SHEET PERLINE & RAFTER CONNECTION

GENERAL NOTES

1. ALL DIMENSIONS ARE IN MM ONLY WRITTEN DIMENSION ARE TO BE FOLLOWED. DIMENSIONS IN STRUCTURAL DRAWING SHOULD NOT BE SCALED.
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3. M-20MIX- MIX CONCRETE AND TMT BARS (FE-500D) SHALL BE USED IN CONSTRUCTION.

REINFORCING STEEL

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SLABS	20MM*
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PROJECT SPECIFIC

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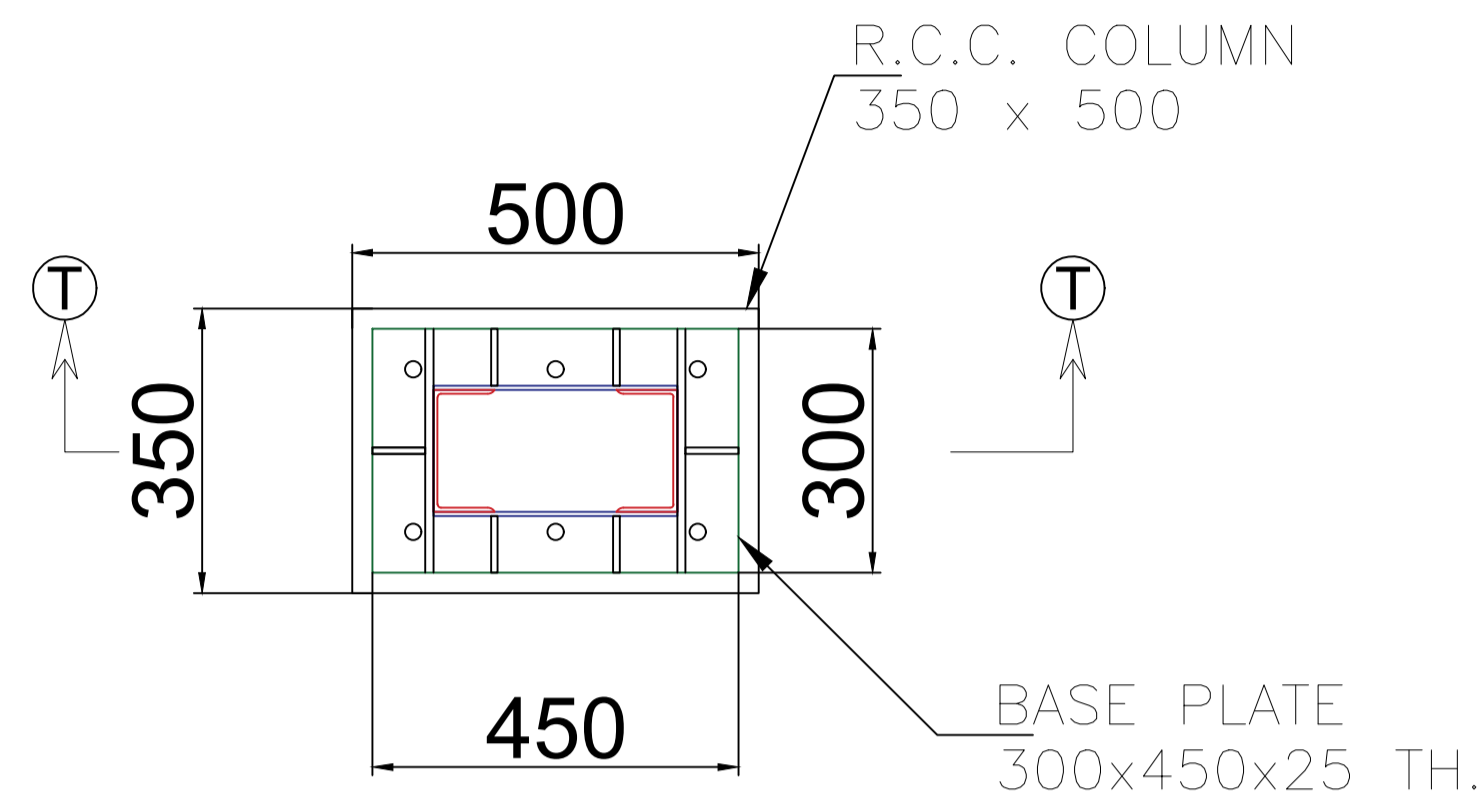
REVISION	DATE	CHANGE
SIGN OF VETTING AUTHORITY		SIGN OF STRUCTURAL CONSULTANT

PROJECT: MATERIAL RECOVERY FACILITY & RECYCLING UNIT AT SHIRWAL, TEHSIL- KHANDALA DIST SATARA, (M.H.)

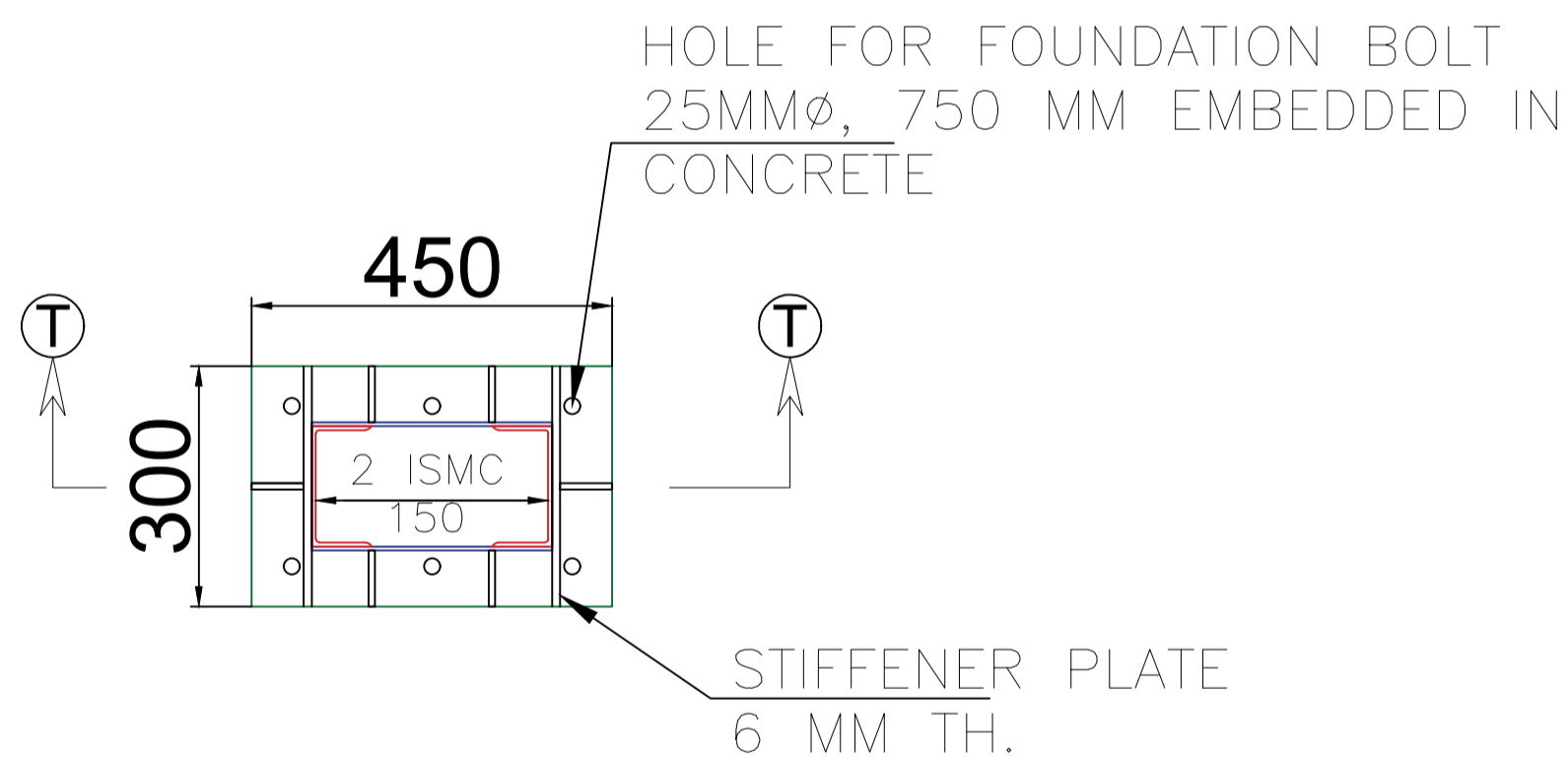


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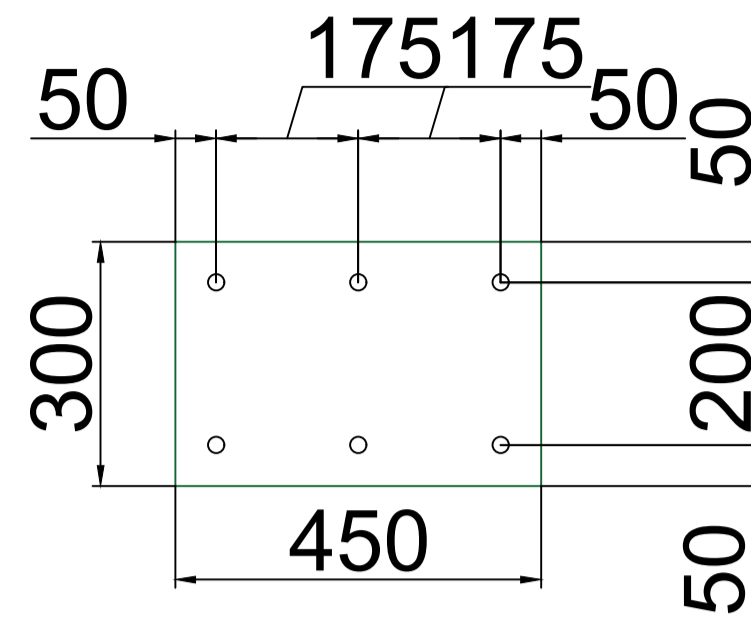
DWG.TITLE: TRUSS DETAILS OF MATERIAL RECOVERY FACILITY		SCALE N.T.S.	REVISION R0	DWG.NO. TEC/CEE/MRF/ST-08
DRAWN RUPESH	DESIGN SARVOTTAM	CHECKED SARVOTTAM	DATE :- 22-JULY-2024	



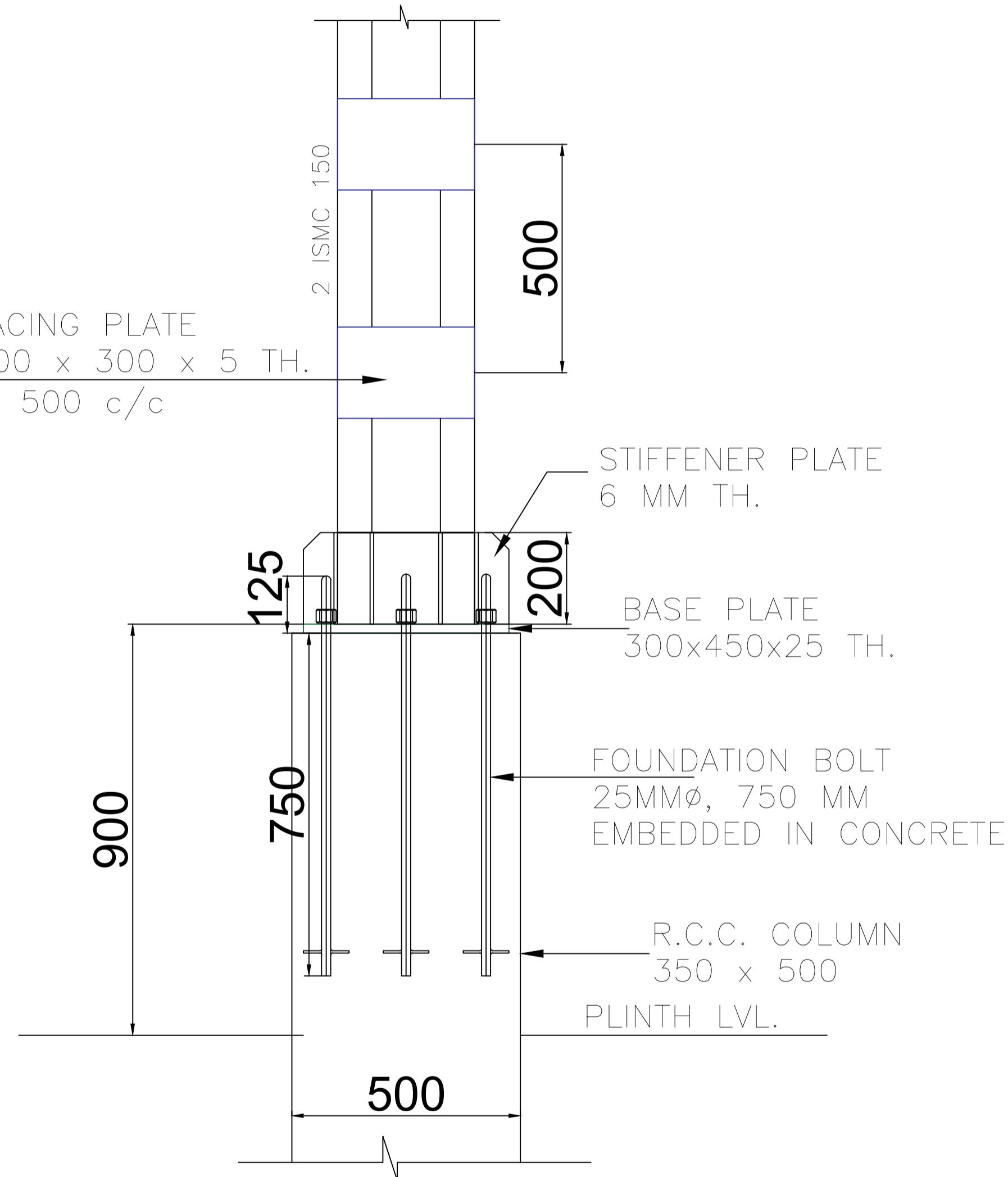
COLUMN BASE PLATE LVL. PLAN



COLUMN BASE PLATE DETAILS



LACING PLATE
200 x 300 x 5 TH.
@ 500 c/c



SECTION DETAILS T-T

GENERAL NOTES

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- M-20MIX- MIX CONCRETE AND TMT BARS (FE-500D) SHALL BE USED IN CONSTRUCTION.

REINFORCING STEEL

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- REFER TO HIGH YIELD STRENGTH DEFORMED BARS WITH CHARACTERISTIC STRENGTH OF 500 N/SQ.MM.
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FOUNDATION 50MM
COLUMNS 40MM
RCC WALL 25MM
FLOOR BEAM 30MM
SLABS 20MM*
- COVER TO SECONDARY REINFORCEMENT ALSO SHALL NOT BE LESS THAN 20MM.
- BENT UP BARS AT SUPPORT SHALL BE EXTENDED UP TO 0.3L OR L_d (WHICHEVER GREATER) IN ADJACENT SPAN OVER CONTINUOUS SUPPORT, IF EXTRA TOP IS NOT PROVIDED AND ANCHOR DOWN IN END SUPPORT FOR DEVELOPMENT LENGTH OF 50 X DIA. OF BAR MINIMUM. IN SLAB, BENT UP BARS SHALL BE EXTENDED UP TO 0.3L IN ADJACENT SPAN OVER CONTINUOUS SUPPORT.
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- IN BEAM-COLUMN JUNCTION, ADEQUATE SHEAR STIRRUPS SHALL BE PROVIDED AS PER PROVISIONS OF IS:13920-2016.
- IN BEAMS, FIRST STIRRUP SHALL BE AT NO MORE THAN 40MM FROM FACE OF THE SUPPORTING MEMBER.
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REVISION	DATE	CHANGE

SIGN OF VETTING
AUTHORITY

SIGN OF STRUCTURAL
CONSULTANT

PROJECT: MATERIAL RECOVERY FACILITY & RECYCLING UNIT AT SHIRWAL, TEHSIL- KHANDALA DIST SATARA, (M.H.)



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TEC
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Mob.No.- [M] 8871738000, [O] 0771-4063800

DWG.TITLE:
**STEEL COLUMN BASE PLATE DETAILS
OF MATERIAL RECOVERY FACILITY**

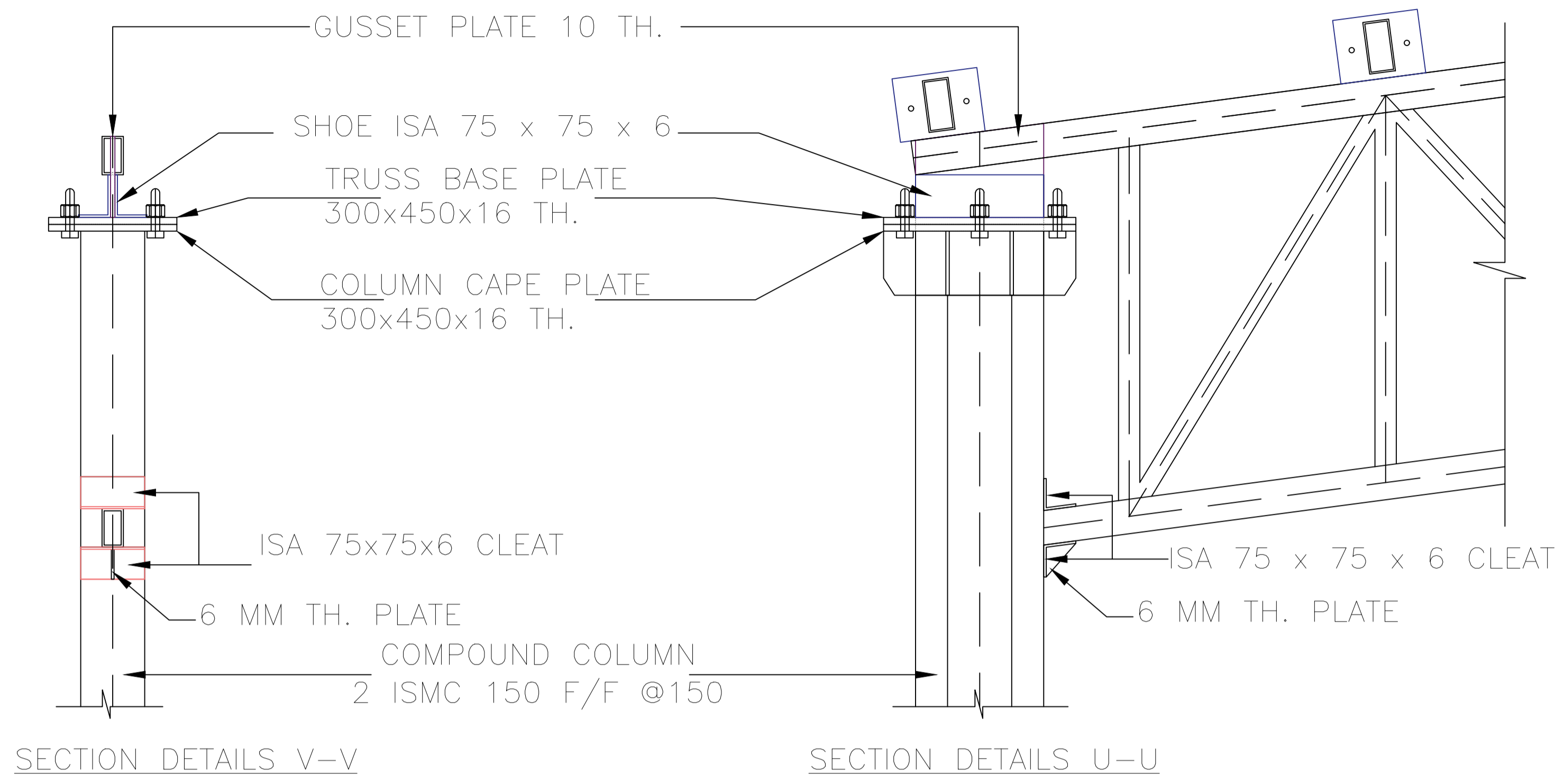
DRAWN: RUPESH
DESIGN: SARVOTTAM

SCALE: N.T.S.
REVISION: R0

CHECKED: SARVOTTAM

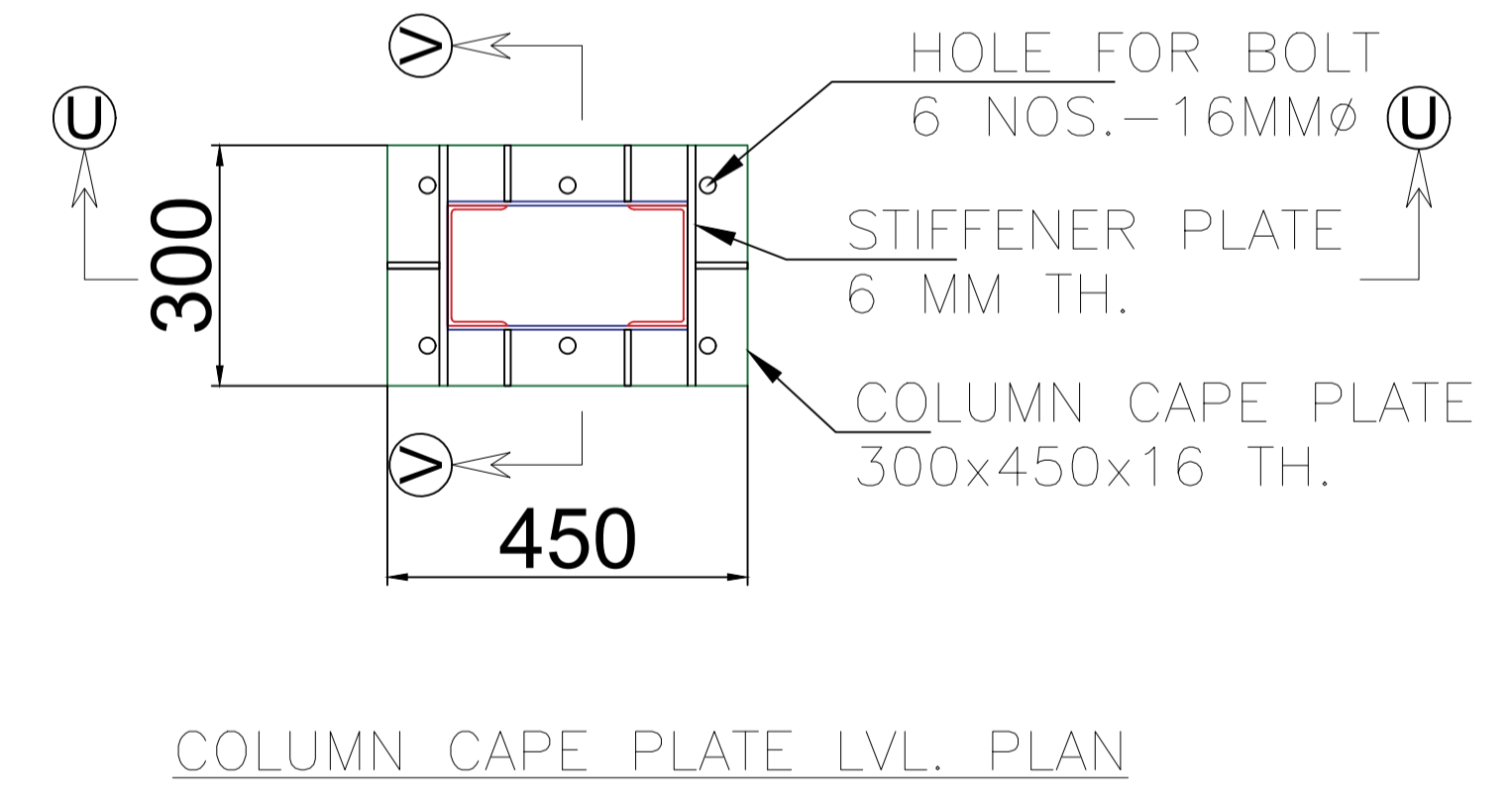
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TEC/CEE/MRF/ST-09

DATE :-
22-JULY-2024

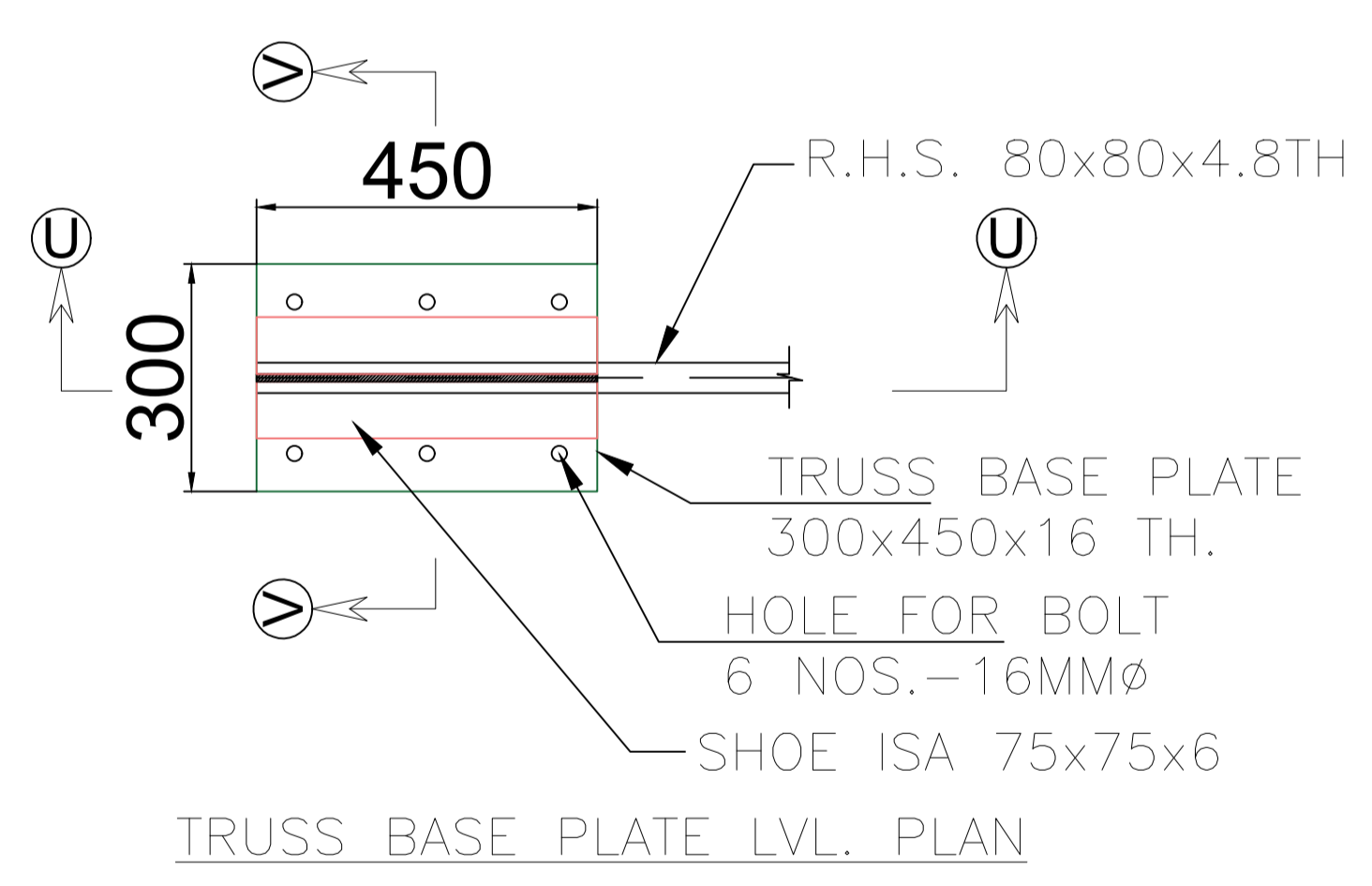


SECTION DETAILS V-V

SECTION DETAILS U-U



COLUMN CAPE PLATE LVL. PLAN



TRUSS BASE PLATE LVL. PLAN

GENERAL NOTES

1. ALL DIMENSIONS ARE IN MM ONLY WRITTEN DIMENSION ARE TO BE FOLLOWED. DIMENSIONS IN STRUCTURAL DRAWING SHOULD NOT BE SCALED.
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REINFORCING STEEL

1. ALL REINFORCING STEEL WILL BE OF TESTED QUALITY CONFIRMING TO IS: 1786 LATEST.
2. REFER TO HIGH YIELD STRENGTH DEFORMED BARS WITH CHARACTERISTIC STRENGTH OF 500 N/SQ.MM.
3. THE CLEAR COVER TO REINFORCEMENT SHALL BE AS FOLLOWS:-

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RCC WALL	25MM
FLOOR BEAM	30MM
SLABS	20MM*
- * COVER TO SECONDARY REINFORCEMENT ALSO SHALL NOT BE LESS THAN 20MM.
4. BENT UP BARS AT SUPPORT SHALL BE EXTENDED UP TO 0.3L OR L_d (WHICHEVER GREATER) IN ADJACENT SPAN OVER CONTINUOUS SUPPORT, IF EXTRA TOP IS NOT PROVIDED AND ANCHOR DOWN IN END SUPPORT FOR DEVELOPMENT LENGTH OF 50 X DIA. OF BAR MINIMUM.
5. IN SLAB, BENT UP BARS SHALL BE EXTENDED UP TO 0.3L IN ADJACENT SPAN OVER CONTINUOUS SUPPORT.
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7. IN BEAM-COLUMN JUNCTION, ADEQUATE SHEAR STIRRUPS SHALL BE PROVIDED AS PER PROVISIONS OF IS:13920-2016.
8. IN BEAMS, FIRST STIRRUP SHALL BE AT NO MORE THAN 40MM FROM FACE OF THE SUPPORTING MEMBER.
9. IN BEAMS TOP BARS ARE NOT TO BE SPLICED IN THE END QUARTERS OF THE SPAN, AND THE BOTTOM BARS ARE NOT TO BE SPLICED AT MIDDLE HALF OF THE SPAN.
10. TENSION OVERLAP 50 X DIA. & COMPRESSION OVERLAP 40XDIA. OF BAR SHALL BE STAGGERED.
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PROJECT SPECIFIC

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PROJECT: MATERIAL RECOVERY FACILITY & RECYCLING UNIT AT SHIRWAL, TEHSIL- KHANDALA DIST SATARA, (M.H.)



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DWG.TITLE:
STEEL COLUMN CAPE PLATE DETAILS OF MATERIAL RECOVERY FACILITY

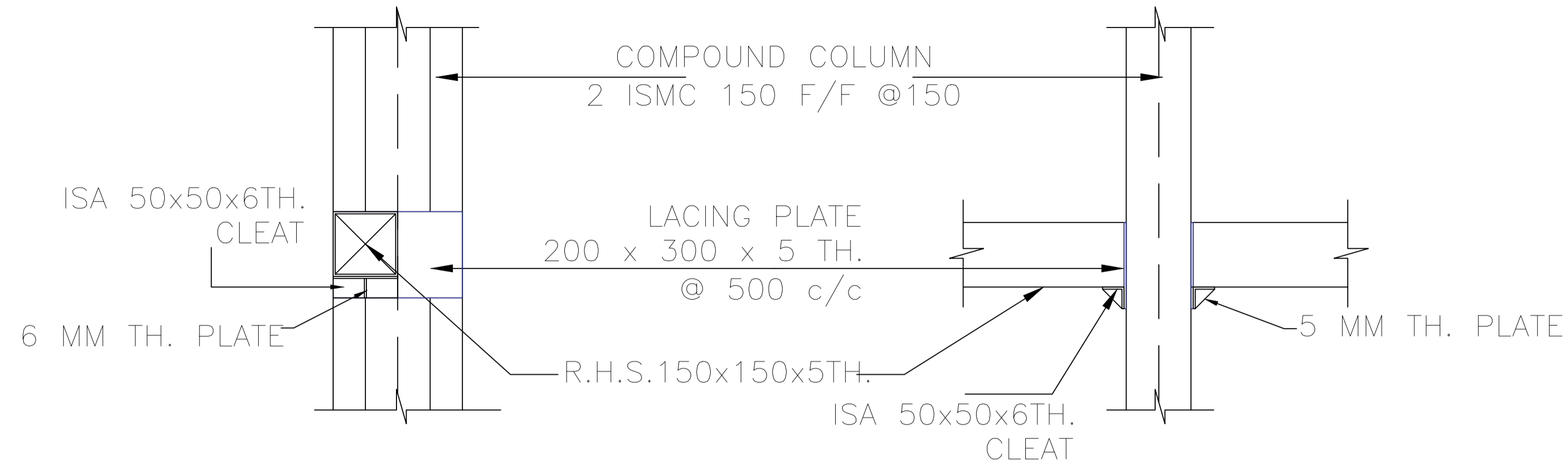
DRAWN: RUPESH DESIGN: SARVOTTAM

SCALE: N.T.S. REVISION: R0

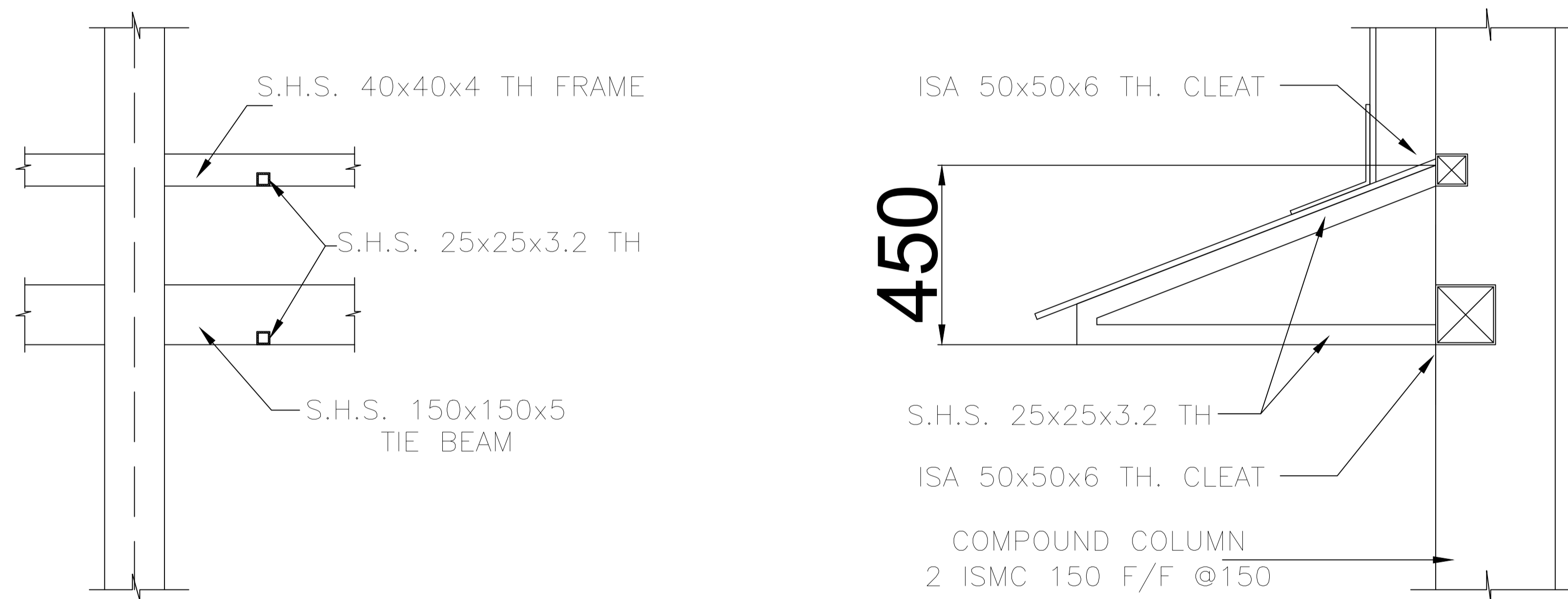
CHECKED: SARVOTTAM

DWG. NO.: TEC/CEE/MRF/ST-10

DATE :- 22-JULY-2024



TYPICAL DETAILS OF TIE BEAM CONNECTION



DETAILS OF CHHAJJA PROJECTION (1.0 M c/c)

GENERAL NOTES

1. ALL DIMENSIONS ARE IN MM ONLY WRITTEN DIMENSION ARE TO BE FOLLOWED. DIMENSIONS IN STRUCTURAL DRAWING SHOULD NOT BE SCALED.
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PROJECT SPECIFIC

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SITE ENGINEERS ARE ADVISED TO VERIFY CONSTRUCTION AT SITE WITH STRUCTURAL DRAWINGS BEFORE EXECUTION FOR DEVIATIONS, STRUCTURAL ENGINEER OR ON BEHALF WILL NOT BE RESPONSIBLE.

REVISION	DATE	CHANGE

SIGN OF VETTING AUTHORITY	SIGN OF STRUCTURAL CONSULTANT

PROJECT: MATERIAL RECOVERY FACILITY & RECYCLING UNIT AT SHIRWAL, TEHSIL- KHANDALA DIST SATARA, (M.H.)

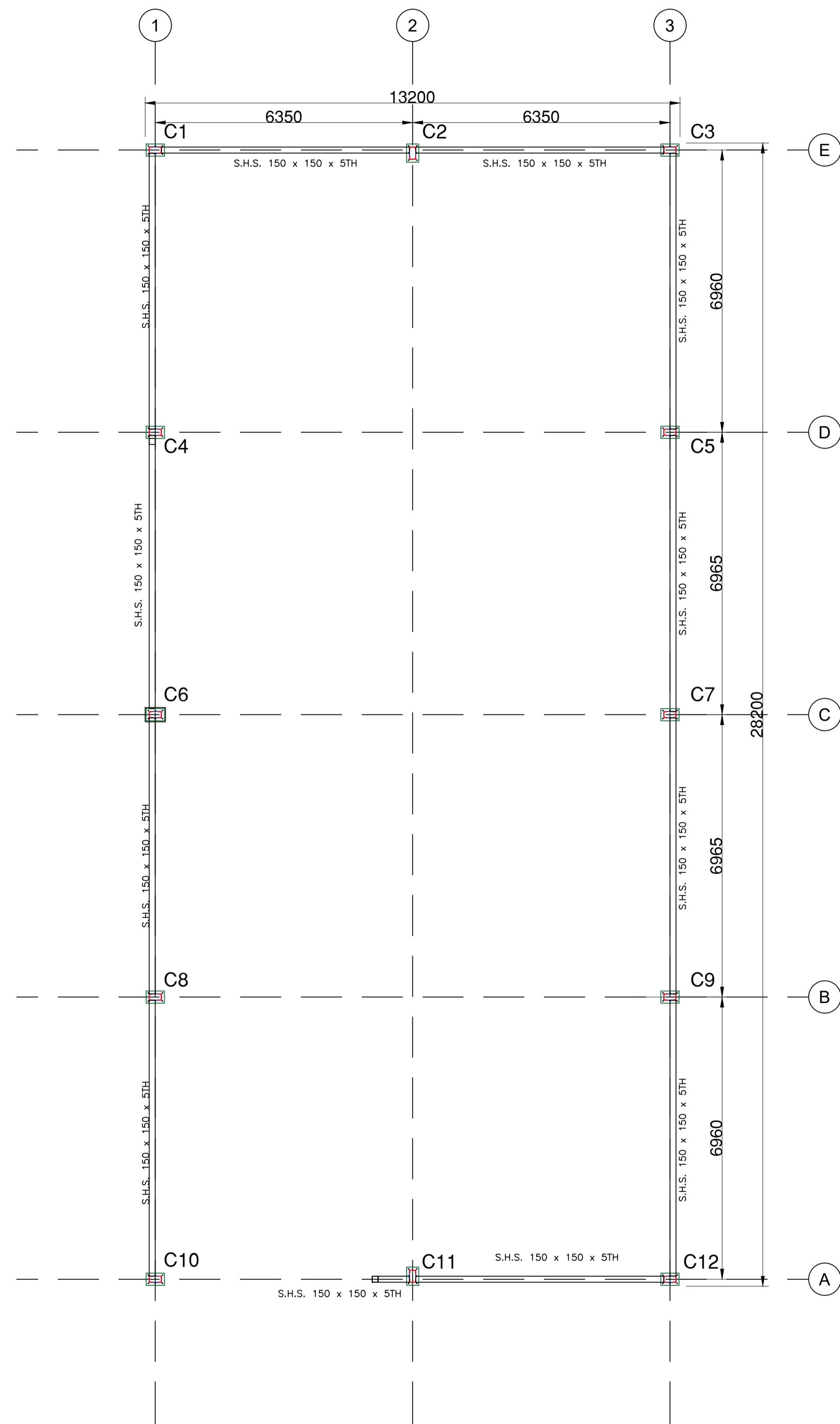


CONSULTANT
TEKNO ENGINEERING CONSULTANTS
Structural Design Solutions
 Add:- Opposite Jhulelal Statue, Canal Road, Amlidih Square, New Rajendra Nagar, Raipur- 492001
 Email us at:- teknostructures2016@gmail.com
 Mob.No.- [M] 8871738000, [O] 0771-4063800

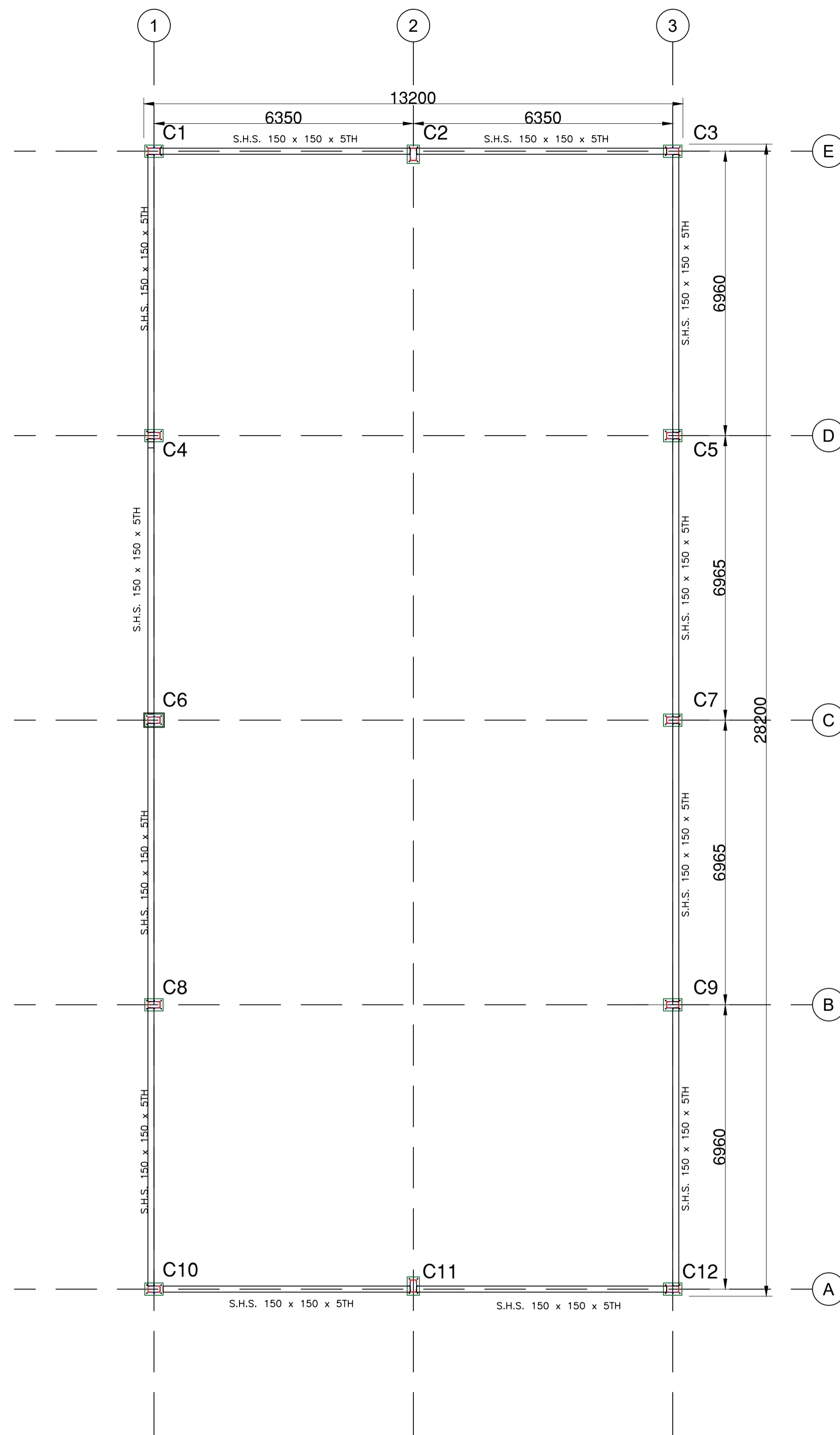
DWG.TITLE:
TYPICAL CHHAJJA DETAILS OF MATERIAL RECOVERY FACILITY

DRAWN	DESIGN
RUPESH	SARVOTTAM

SCALE	REVISION	DWG. NO.
N.T.S.	R0	TEC/CEE/MRF/ST-11
CHECKED	DATE :-	
SARVOTTAM	22-JULY-2024	



M.S. TIE BEAM PLAN AT LVL.+2550



M.S. TIE BEAM PLAN AT LVL.+3600

GENERAL NOTES

1. ALL DIMENSIONS ARE IN MM ONLY WRITTEN DIMENSION ARE TO BE FOLLOWED. DIMENSIONS IN STRUCTURAL DRAWING SHOULD NOT BE SCALED.
2. STRUCTURAL DRAWING SHOULD BE READ IN CONNECTION WITH RELEVANT ARCHITECTURAL DRAWING. IN CASE OF DISCREPANCY BETWEEN ARCHITECTURAL AND STRUCTURAL DRAWING SHOULD BE IMMEDIATELY BROUGHT TO NOTICE OF OFFICE OF EXECUTIVE ENGINEER, INDORE - I, CPWD, INDORE (M.P.).
3. M-20MIX- MIX CONCRETE AND TMT BARS (FE-500D) SHALL BE USED IN CONSTRUCTION.

REINFORCING STEEL

1. ALL REINFORCING STEEL WILL BE OF TESTED QUALITY CONFIRMING TO IS: 1786 LATEST.
2. REFER TO HIGH YIELD STRENGTH DEFORMED BARS WITH CHARACTERISTIC STRENGTH OF 500 N/SQ.MM.
3. THE CLEAR COVER TO REINFORCEMENT SHALL BE AS FOLLOWS:-
 FOUNDATION 50MM
 COLUMNS 40MM
 RCC WALL 25MM
 FLOOR BEAM 30MM
 SLABS 20MM*
 * COVER TO SECONDARY REINFORCEMENT ALSO SHALL NOT BE LESS THAN 20MM.
4. BENT UP BARS AT SUPPORT SHALL BE EXTENDED UP TO 0.3L OR L_d (WHICHEVER GREATER) IN ADJACENT SPAN OVER CONTINUOUS SUPPORT, IF EXTRA TOP IS NOT PROVIDED AND ANCHOR DOWN IN END SUPPORT FOR DEVELOPMENT LENGTH OF 50 X DIA. OF BAR MINIMUM.
5. IN SLAB, BENT UP BARS SHALL BE EXTENDED UP TO 0.3L IN ADJACENT SPAN OVER CONTINUOUS SUPPORT.
6. SLAB BARS IN SHORTER DIRECTION SHALL BE BELOW BARS FOR THE LONGER DIRECTION.
7. IN BEAM-COLUMN JUNCTION, ADEQUATE SHEAR STIRRUPS SHALL BE PROVIDED AS PER PROVISIONS OF IS:13920-2016.
8. IN BEAMS, FIRST STIRRUP SHALL BE AT NO MORE THAN 40MM FROM FACE OF THE SUPPORTING MEMBER.
9. IN BEAMS TOP BARS ARE NOT TO BE SPLICED IN THE END QUARTERS OF THE SPAN, AND THE BOTTOM BARS ARE NOT TO BE SPLICED AT MIDDLE HALF OF THE SPAN.
10. TENSION OVERLAP 50 X DIA. & COMPRESSION OVERLAP 40XDIA. OF BAR SHALL BE STAGGERED.
11. STIRRUPS SHALL BE STRICTLY PERPENDICULAR TO THE MAIN AXIS OF BEAM AND CANTILEVER BEAMS TO HAVE HOOK AT BOTTOM.
12. NOT MORE THAN ONE-THIRD OF THE COLUMN BARS SHALL BE LAPPED AT A SECTION.
13. CURTAILMENT, SPLICING OF R/F BARS, DETAILING SPECIFICATION, COMPACTION OF CONCRETE ETC. SHALL BE AS PER IS:456 - 2000, SP34.

PROJECT SPECIFIC

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REVISION	DATE	CHANGE

SIGN OF VETTING AUTHORITY	SIGN OF STRUCTURAL CONSULTANT

PROJECT: MATERIAL RECOVERY FACILITY & RECYCLING UNIT AT SHIRWAL, TEHSIL- KHANDALA DIST SATARA, (M.H.)

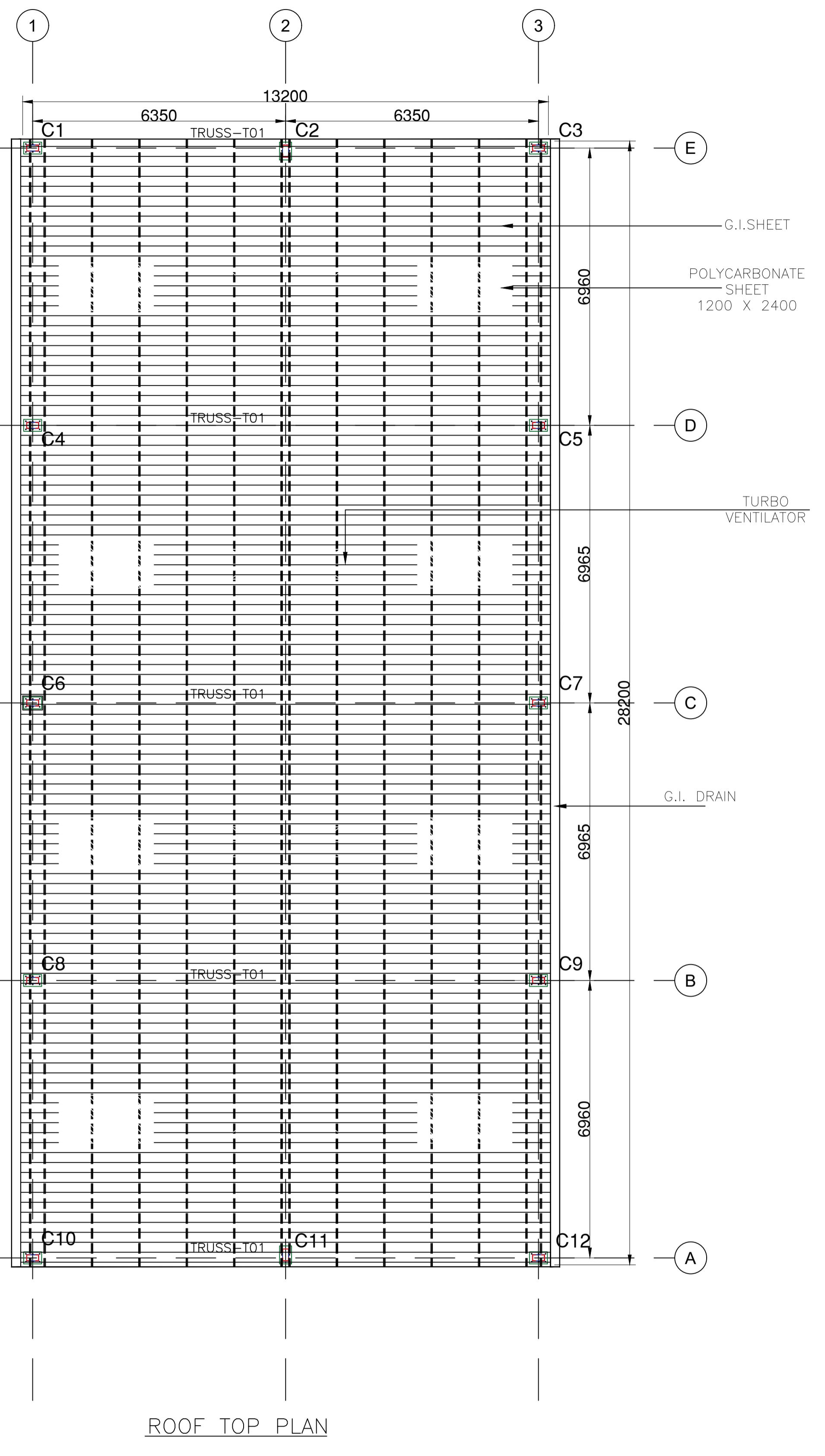
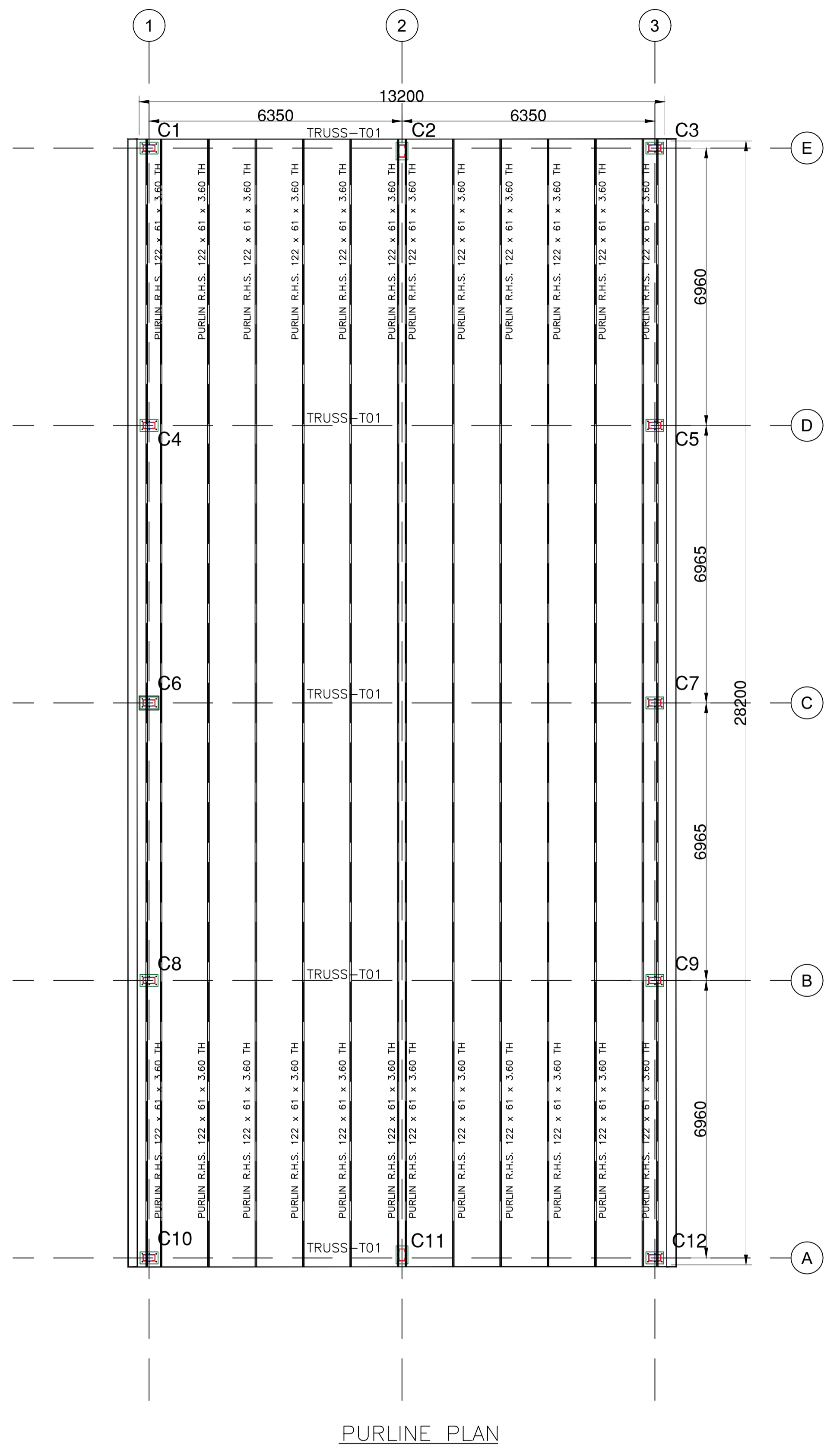


CONSULTANT
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 Structural Design Solutions
 Add:- Opposite Jhulelal Statue, Canal Road, Amlidih
 Square, New Rajendra Nagar, Raipur- 492001
 Email us at:- teknostructures2016@gmail.com
 Mob.No.- [M] 8871738000, [O] 0771-4063800

DWG.TITLE:
**STEEL TIE BEAM PLAN OF
 MATERIAL RECOVERY FACILITY**

DRAWN: RUPESH
 DESIGN: SARVOTTAM

SCALE: N.T.S.	REVISION: R0	DWG. NO.: TEC/CEE/MRF/ST-12
CHECKED: SARVOTTAM	DATE: 22-JULY-2024	



GENERAL NOTES

- ALL DIMENSIONS ARE IN MM ONLY WRITTEN DIMENSION ARE TO BE FOLLOWED. DIMENSIONS IN STRUCTURAL DRAWING SHOULD NOT BE SCALED.
- STRUCTURAL DRAWING SHOULD BE READ IN CONNECTION WITH RELEVANT ARCHITECTURAL DRAWING, IN CASE OF DISCREPANCY BETWEEN ARCHITECTURAL AND STRUCTURAL DRAWING SHOULD BE IMMEDIATELY BROUGHT TO NOTICE OF OFFICE OF EXECUTIVE ENGINEER, INDORE - I, CPWD, INDORE (M.P.).
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REINFORCING STEEL

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 - COLUMNS 40MM
 - RCC WALL 25MM
 - FLOOR BEAM 30MM
 - SLABS 20MM*
- * COVER TO SECONDARY REINFORCEMENT ALSO SHALL NOT BE LESS THAN 20MM.
- BENT UP BARS AT SUPPORT SHALL BE EXTENDED UP TO 0.3L OR L_d (WHICHEVER GREATER) IN ADJACENT SPAN OVER CONTINUOUS SUPPORT, IF EXTRA TOP IS NOT PROVIDED AND ANCHOR DOWN IN END SUPPORT FOR DEVELOPMENT LENGTH OF 50 X DIA. OF BAR MINIMUM.
- IN SLAB, BENT UP BARS SHALL BE EXTENDED UP TO 0.3L IN ADJACENT SPAN OVER CONTINUOUS SUPPORT.
- SLAB BARS IN SHORTER DIRECTION SHALL BE BELOW BARS FOR THE LONGER DIRECTION.
- IN BEAM-COLUMN JUNCTION, ADEQUATE SHEAR STIRRUPS SHALL BE PROVIDED AS PER PROVISIONS OF IS:13920-2016.
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PROJECT SPECIFIC

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REVISION	DATE	CHANGE

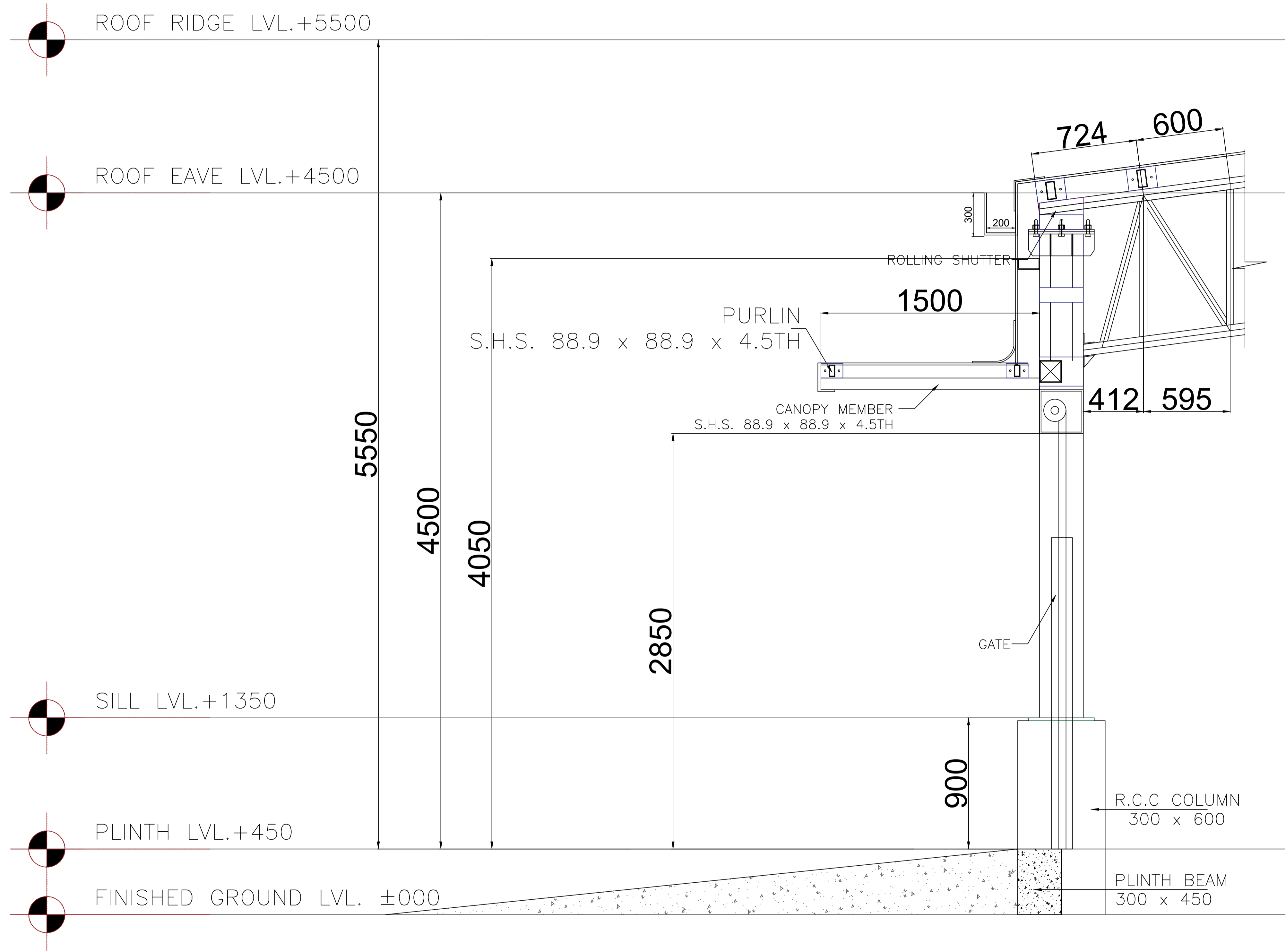
SIGN OF VETTING AUTHORITY SIGN OF STRUCTURAL CONSULTANT

PROJECT: MATERIAL RECOVERY FACILITY & RECYCLING UNIT AT SHIRWAL, TEHSIL- KHANDALA DIST SATARA, (M.H.)



CONSULTANT
TEKNO ENGINEERING CONSULTANTS
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 Add:- Opposite Jhulelal Statue, Canal Road, Amlidih Square, New Rajendra Nagar, Raipur- 492001
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 Mob.No.- [M] 8871738000, [O] 0771-4063800

DWG.TITLE: PURLINE & ROOF PLAN OF MATERIAL RECOVERY FACILITY		SCALE N.T.S.	REVISION R0	DWG. NO. TEC/CEE/MRF/ST-13
DRAWN RUPESH	DESIGN SARVOTTAM	CHECKED SARVOTTAM	DATE :- 22-JULY-2024	



DETAILS AT ROLLING SHUTTER

GENERAL NOTES

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4. BENT UP BARS AT SUPPORT SHALL BE EXTENDED UP TO 0.3L OR L_d (WHICHEVER GREATER) IN ADJACENT SPAN OVER CONTINUOUS SUPPORT, IF EXTRA TOP IS NOT PROVIDED AND ANCHOR DOWN IN END SUPPORT FOR DEVELOPMENT LENGTH OF 50 X DIA. OF BAR MINIMUM.
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REVISION	DATE	CHANGE

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PROJECT: MATERIAL RECOVERY FACILITY & RECYCLING UNIT AT SHIRWAL, TEHSIL- KHANDALA DIST SATARA, (M.H.)

CLIENT:  Centre for Environment Education

CONSULTANT
TEKNO ENGINEERING CONSULTANTS
Structural Design Solutions

 TEC

Add:- Opposite Jhulelal Statue, Canal Road, Amlidih Square, New Rajendra Nagar, Raipur- 492001
Email us at:- teknostructures2016@gmail.com
Mob.No.- [M] 8871738000, [O] 0771-4063800

DWG.TITLE:
ROLLING SHUTTER DETAILS OF MATERIAL RECOVERY FACILITY

DRAWN	DESIGN
RUPESH	SARVOTTAM

SCALE	REVISION	DWG. NO.
N.T.S.	R0	TEC/CEE/MRF/ST-14
CHECKED	DATE :-	
SARVOTTAM	22-JULY-2024	

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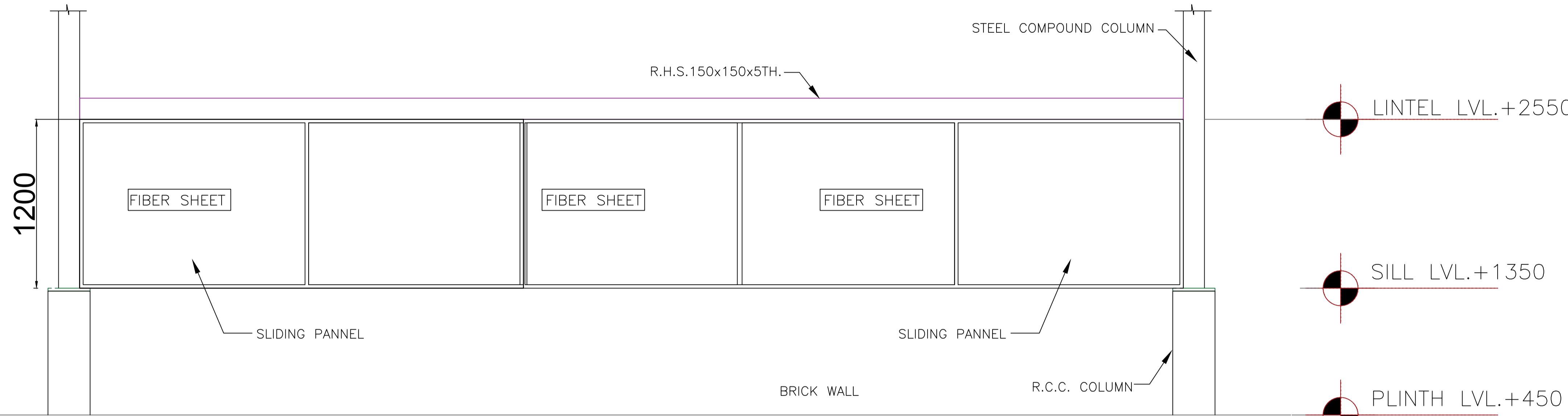
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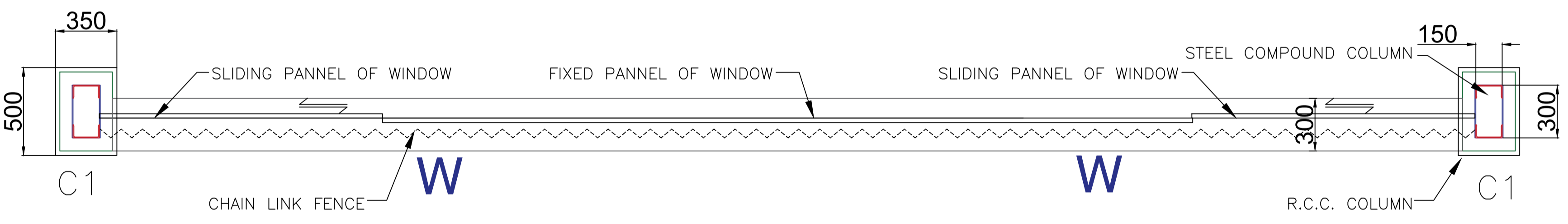
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SIGN OF VETTING AUTHORITY	SIGN OF STRUCTURAL CONSULTANT



FRONT VIEW



PLAN

WINDOW DETAILS

PROJECT: MATERIAL RECOVERY FACILITY & RECYCLING UNIT AT SHIRWAL, TEHSIL- KHANDALA DIST SATARA, (M.H.)

CLIENT: **CEE**
Centre for Environment Education

CONSULTANT
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DWG. TITLE:
WINDOW DETAILS OF MATERIAL RECOVERY FACILITY

DRAWN: **RUPESH**
DESIGN: **SARVOTTAM**

SCALE: N.T.S.
REVISION: R0
DWG. NO.: TEC/CEE/MRF/ST-15
CHECKED: **SARVOTTAM**
DATE: 22-JULY-2024