
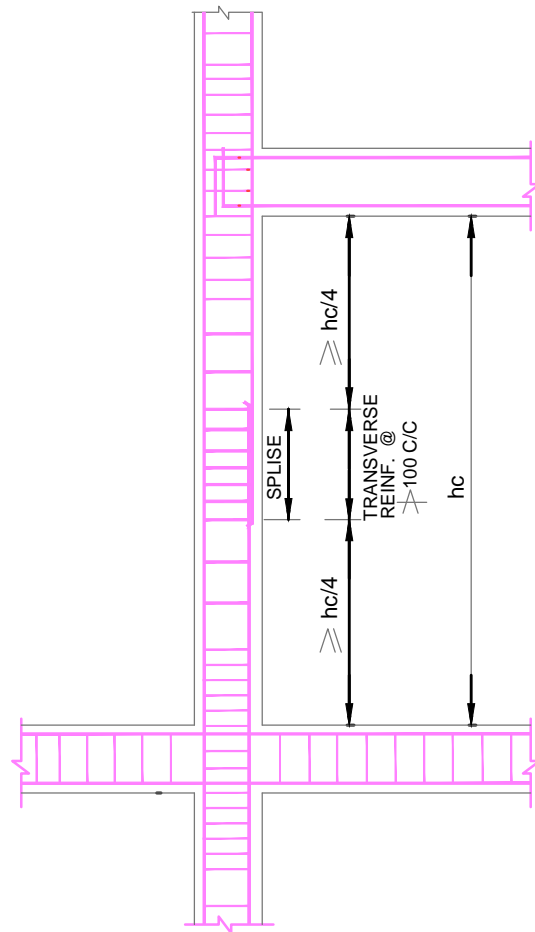
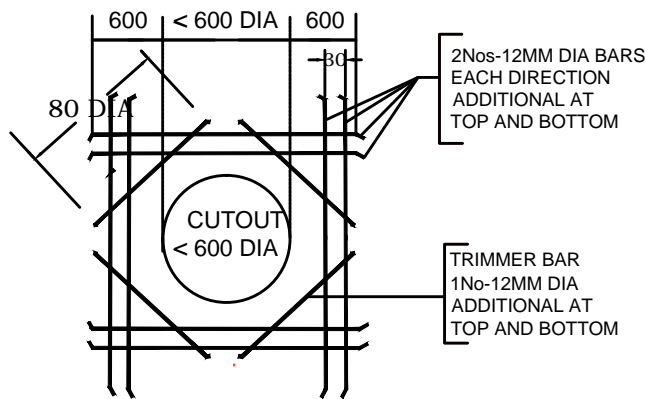


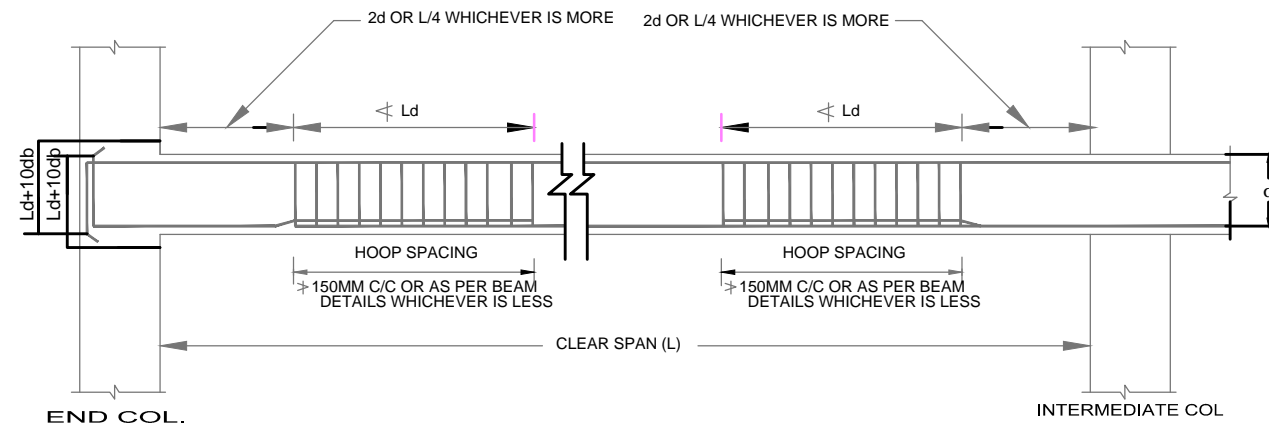
CPWD	SUPERINTENDING ENGINEER CHANDIGARH	GOOD FOR CONSTRUCTION			CONSULTANT	PROJECT : PROPOSED STRUCTURAL DRAWINGS FOR TANK AT PINJORE	DESIGNED BY :	ER .ROHIT GUPTA
					<div>designtech</div> <div>#365-P, Level-1, Sector-12, Pandhkula (HR) • structure engg. • architects • interior designers designtech.7@gmail.com, 0172-2569857</div>		DRAWN BY :	ER. PRIYANKA SAINI
				REGISTERED OFFICE : HOUSE NO. 857, SECTOR-09, PANCHKULA		TITLE GENERAL NOTES-1	DATE :	11-02-2020
						CLIENT	SCALE :	NOT TO SCALE
PROOF CHECKED BY:		AE	EE	SE		DRG. NO.	DTECH-001	



TYP. COLUMN REINF. SPLICING DETAILS
REFER CLAUSE NO. 7.3.2 OF I.S. 13920:2016



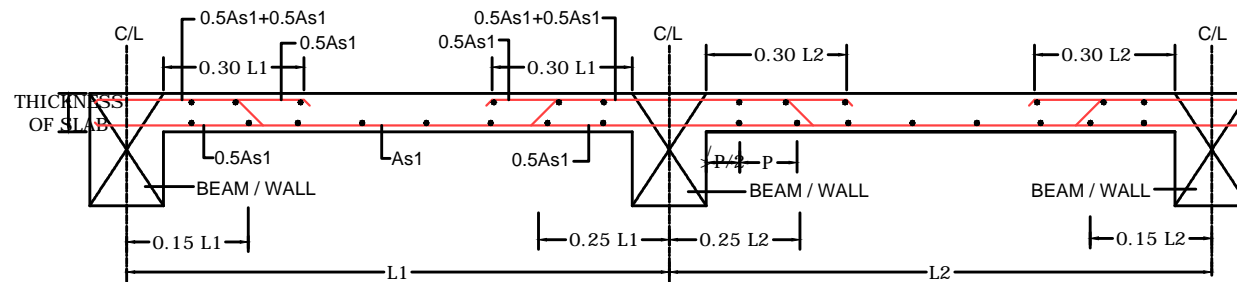
ADDITIONAL REINFORCEMENT AROUND CIRCULAR CUT-OUT (OPENING) IN SLAB



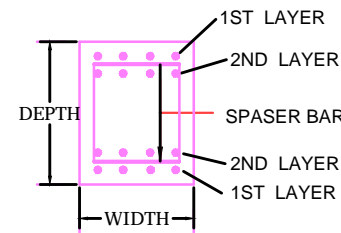
TYPICAL DETAILS OF LAP & SPLISE IN BEAM

REFER NOTE NO. 10(b) OF STRUCT. DRG. EVEN NO. 03 & CLAUSE NO. 6.2.6 OF I.S. 13920:2016

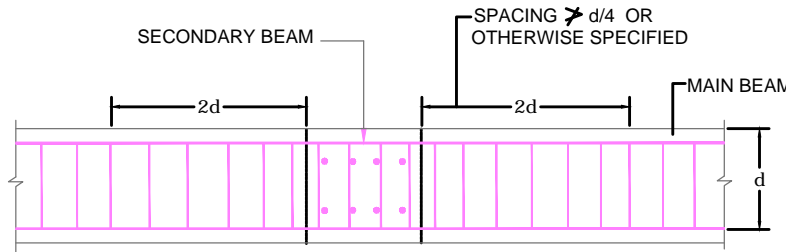
L_d = DEVELOPMENT LENGTH
 d = EFFECTIVE DEPTH OF BEAM



TYPICAL SECTION THROUGH SLAB

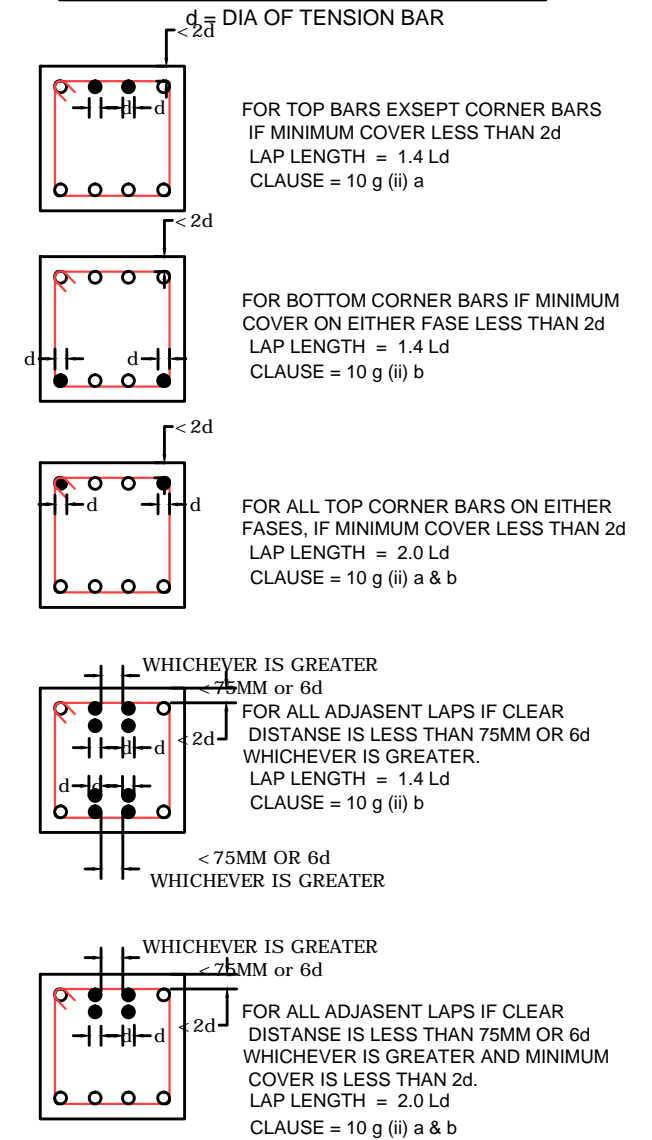


TYP. SEC. OF MAIN BEAM
(STIRRUPS NOT SHOWN)



TYPICAL JUNCTION DETAILS
OF MAIN & SECONDARY BEAMS

REFERENCE CLAUSE NO. - 10 g (ii)




SPLICING IN BEAMS (CLAUSE NO. 6.2.6 OF IS 13920:2016)

THE LONGITUDINAL BARS SHALL BE SPLISED, ONLY IF HOOPS ARE PROVIDED OVER THE ENTIRE SPLISE LENGTH, AT A SPACING NOT EXSEEDING 150MM (REFER TYPICAL DETAILS OF LAP & SPLISE IN A BEAM). LAP SPLISES SHALL NOT BE PROVIDED (a) WITHIN A JOINT (b) WITHIN A DISTANSE OF 2d FROM JOINT FASE & (c) WITHIN A QUARTER LENGTH OF THE BEAM. NOT MORE THAN 50% OF THE BARS SHALL BE SPLISED AT ONE SECTION.

SPLICING IN COLUMNS (CLAUSE NO. 7.3.2 OF IS 13920:2016)

LAP SPLISES SHALL BE PROVIDED ONLY IN THE SENTRAL HALF OF THE COLUMN. NOT MORE THAN 50% OF THE BARS SHALL BE SPLISED AT ONE SECTION. (REFER TYPICAL COLUMN REINF. SPLICING DETAILS)

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					<div>designtech</div> <div>#365-P, Level-1, Sector-12, Panchkula (HR) • structure engg. • architects • interior designers designtech.7@gmail.com, 0172-2569857</div>		DRAWN BY :	ER. PRIYANKA SAINI	
		PROOF CHECKED BY:					TITLE GENERAL NOTES-2	DATE :	11-02-2020
								SCALE :	NOT TO SCALE
			AE	EE	SE	CLIENT	DRG. NO.	DTECH-002	
					REGISTERED OFFICE : HOUSE NO. 857, SECTOR-09. PANCHKULA				

1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.
2. ONLY WRITTEN DIMENSIONS SHOULD BE FOLLOWED NEITHER THE BARS SHALL BE COUNTED NOR THE DIMENSIONS BE SCALED FROM THE DRAWING.
3. ANY DISCREPANCY IN ARCH. DRG, STRUCTURAL DRG AND BILL OF QUANTITY SHALL BE BROUGHT TO THE NOTICE OF THIS OFFICE & GOT RECONCILED BEFORE EXECUTION.
4. WORK SHALL BE CARRIED OUT AS PER CPWD SPECIFICATIONS.
5. NET SAFE BEARING CAPACITY OF SOIL HAS BEEN TAKEN AS 13.50 T/SQM FOR AT A DEPTH OF 3.5M BELOW GROUND LEVEL, AS PER INFORMATION PROVIDED

HOWEVER E.E. MAY PHYSICALLY VERIFY THE SAME BEFORE EXECUTION AT SITE AND INTIMATE THE SAME TO THIS OFFICE IF THERE IS ANY DISCREPANCY IN THE VALUES ADOPTED AS ABOVE.

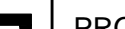
6. ALL R.C.C. WORK SHALL BE IN M - 25 GRADE REINFORCED SEMENT CONCRETE, UNLESS SPECIFIED OTHERWISE.
7. WATER TO BE USED SHALL CONFORM TO I.S. 456-2000.
8. MINIMUM NOMINAL COVER TO ALL REINFORCEMENT AS PER I.S. 456-2000 INCLUDING LINKS SHALL BE AS BELOW
- a) FOUNDATION = 60 MM b) COLUMNS = 40 MM
- c) BEAMS = 25 MM d) SLABS = 20 MM
9. REINFORCEMENT BARS TO BE USED SHALL BE TMT BARS (THERMO MECHANICALLY TREATED BARS) OF GRADE 500 D CONFORMING TO I.S. 1786.
10. I.S. 456-2000. I.S. 4326, I.S. 13920 SHALL BE REFERRED FOR DETAILING OF REINFORCEMENT AND TO MEET DUCTILITY REQUIREMENTS SOME OF SALIENT FEATURES OF WHICH ARE REITERATED AS UNDER :
- a) REINFORCEMENT OF COLUMN TO BE TERMINATED SHALL BE TAKEN INTO THEIR RESPECTIVE BEAMS AT TERMINATION LEVEL UPTO DEVELOPMENT LENGTH (Ld).
- b) NOT MORE THAN HALF OF THE TOTAL NOS. OF BARS SHALL BE OVERLAPPED AT ANY SECTION. OVERLAPPING SHALL BE STAGGERED & AVOIDED AT THE POINT OF THE MAXIMUM BENDING MOMENT IN THE BEAM.
- c) IN 'K' , DISTANSE OF COLUMN FROM TOP AND BOTTOM OF INTERSECTING BEAM THE TIES BE KEPT AS PER I.S. 13920 REFER DETAIL.
- d) CONFINING STIRRUPS IN BEAM COLUMN JUNCTION SHALL BE PROVIDED IN 'Z' PORTION (REFER SECTION A-A TYPICAL DETAIL OF COLUMN).HOWEVER HOWEVER IF COLUMN IS CONNECTED FROM FOUR DIRECTIONS, THE THE SPACING SHOULD BE DOUBLED. IN CASE OF DIFFICULTY IN PROVIDING CLOSED STIRRUPS, 'U' TYPE STIRRUPS FROM TWO OPPOSITE DIRECTIONS PROJECTING UPTO DEVELOPMENT LENGTH Ld IN BEAM FROM COLUMN FASE CAN BE PROVIDED.
- e) WHERE A BEAM TERMINATES INTO ANOTHER BEAM OR ON WALL, THE BOTTOM BARS OF TERMINATING BEAM SHALL BE BENT UP AT ENDS BY L_o. WHERE L_o = 12 TIMES THE DIA OF BAR OR EFFECTIVE DEPTH OF TERMINATING BEAM WHICHEVER IS MORE (REFER SKETCH).
- f) CLOSED STIRRUPS SHALL BE PROVIDED i.e. THE HOOKS SHALL BE BENT BY 135° (REFER SKETCH) INTO THE CORE.

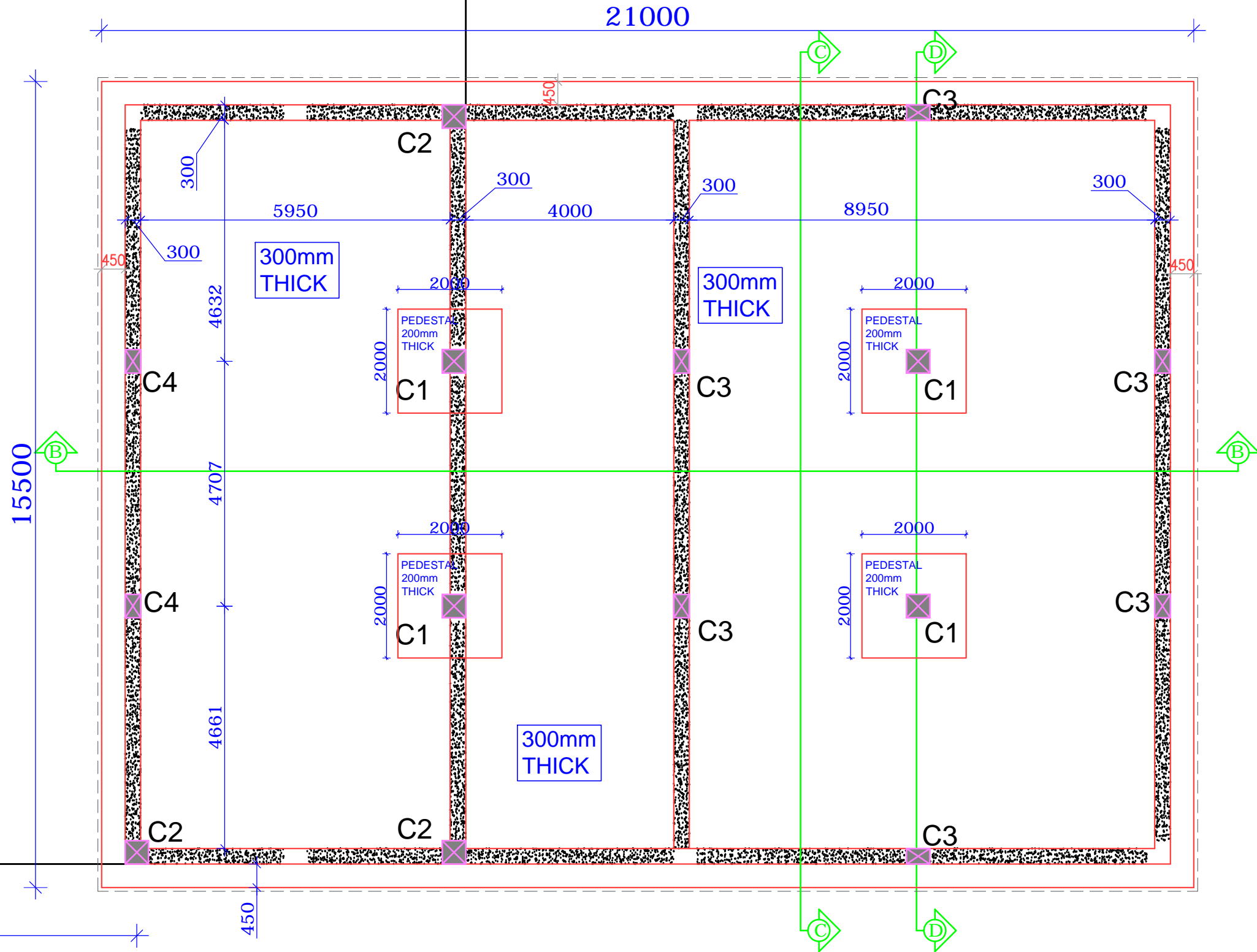
- g) LAP LENGTH , DEVELOPMENT LENGTH FOR ALL STRAIGHT REINFORCEMENT BARS SHALL BE AS UNDER :
REFER CLAUSE : 26.2.5.1 OF IS 456-2000.
- i) $M:25 = 48 d$
WHERE d IS THE DIA OF BAR. Ld AS CALCULATED ABOVE SHALL BE CORRECTED FOR ANCHORAGE VALUE OF EVERY 45° BEND @ 4xDIA OF BAR. SUBJECT TO MAX. 16xDIA OF BAR.
- ii) LAP LENGTH INCLUDING ANCHORAGE VALUE OF HOOKS FOR BARS IN FLEXURAL SHALL BE Ld (SEE 26.2.1) OR 30Ø WHICHEVER IS GREATER AND FOR DIRECT TENSION SHALL BE 2Ld OR 30Ø WHICHEVER IS GREATER. THE STRAIGHT LENGTH OF THE LAP SHALL NOT BE LESS THAN 15Ø OR 20MM.THE FOLLOWING PROVISIONS SHALL ALSO APPLY:-
WHERE LAP OCCURS FOR A TENSION BAR LOCATED AT:
- a) TOP OF A SECTION AS CAST AND THE MINIMUM COVER IS LESS THAN TWICE THE DIAMETER OF THE LAPPED BAR, THE LAP LENGTH SHALL BE INCREASED BY A FACTOR OF 1.4.
- b) CORNER OF A SECTION AND THE MINIMUM COVER TO EITHER FASE IS LESS THAN TWICE THE DIAMETER OF LAPPED BAR OR WHERE THE CLEAR DISTANSE BETWEEN ADJASENT LAPS IS LESS THAN 75MM OR 6 TIMES THE DIAMETER OF LAPPED BAR,WHICHEVER IS GREATER, THE LAP LENGTH SHALL BE INCREASED BY A FACTOR OF 1.4. WHERE BOTH CONDITION(a) &(b) APPLY, THE LAP LENGTH SHALL BE INCREASED BY A FACTOR OF 2.0.
- NOTE:- SPLISES IN TENSION MEMBERS SHALL BE ENCLOSED IN SPIRALS MADE OF BARS NOT LESS THAN 6MM DIAMETER WITH PITCH NOT MORE THAN 100MM.
- iii) LAP SPLISES SHALL BE CONSIDERED AS STAGGERED IF THE SENTRE TO SENTRE DISTANSE OF THE SPLISES IS NOT LESS THAN 1.3 TIMES THE LAP LENGTH CALCULATED AS DESCRIBED IN NOTE NO. -10g(ii).
11. SENTRING & SHUTTERING FOR THE CANTILEVER SHALL NOT BE REMOVED UNLESS FLOOR SLAB BEHIND IT HAS BEEN CAST & ATTAINED SUFFICIENT STRENGTH & WALL RAISED ABOVE THAT FLOOR LEVEL TO FULL HEIGHT.
12. TOP LEVEL OF INTERNAL PLINTH BEAMS SHALL BE 40 MM BELOW FLOOR LEVEL OR THICKNESS OF FLOOR WHICHEVER IS MORE & BOTTOM LEVEL OF EXTERNAL PLITH BEAM SHALL BE 150 MM BELOW FORMATION LEVEL. HOWEVER,THE SAME MAY BE MODIFIED AS PER SITE REQUIREMENTS/ ARCHTECTURAL DRAWINGS.
13. WHERE THERE ARE TWO OR MORE ROWS OF REINFORCEMENT BAR THE REINFORCEMENT BARS SHALL BE VERTICALLY IN LINE AND MINIMUM VERTICAL DISTANSE BETWEEN THE REINFORCEMENT BARS SHALL BE 15 mm OR 2/3 OF THE NOMINAL SIZE OF THE AGGREGATE OR THE MAX. SIZE OF BAR WHICHEVER IS THE MORE.

14. SMALL SQUARE OR CIRCULAR OPENING(AREA < 1000SQMM) MAY BE PLASSED IN BEAMS WHEREVER REQUIRED PROVIDED:-
- a) THE CLEAR DISTANSE BETWEEN SUCH OPENINGS,MEASURED ALONG THE BEAM, IS NOT LESS THAN 150MM.
- b) THE EDGE OF THE SMALL OPENINGS SHOULD BE NOT CLOSER THAN 0.46d, TO THE COMPRESSION FASE OF THE MEMBER, WHERE 'd' IS THE EFFECTIVE DEPTH OF THE BEAM.

NOTES FOR CONSTRUCTION JOINTS

- 1) DURING CASTING OF BEAM, IF THE WORK IS STOPPED FOR A DURATION LONGER THAN INITIAL SETTING TIME OF SEMENT, THEN SUCH DISCONTINUITY SHALL BE TREATED AS CONSRUCTION JOINTS.
- 2) CONSTRUCTION JOINTS SHALL BE MADE VERTICAL BY PROPER TEMPLATE WITH SLOTS FOR ACCOMMODATING REINFORCEMENT BARS. THE JOINT SHALL BE TREATED IN ACCORDANSE WITH C.P.W.D. SPECIFICATIONS.
- 3) CONSTRUCTION JOINTS SHALL BE PLANNED AT OR NEAR MID SPAN BUT NOT OUT SIDE THE MIDDLE THIRD OF THE SPAN PROVIDED THE BEAM DOES NOT CARRY ANY CONSENTRATED LOAD. IN CASE BEAM CARRIES CONSENTRATED LOAD DUE TO REACTION OF THE SECONDARY BEAM, THE CONSTRUCTION JOINT IN THE MAIN BEAM SHALL BE OFFSET BY A DISTANSE EQUAL TO TWICE THE WIDTH OF THE SECONDARY BEAM.
- 4) CONSTRUCTION JOINTS SHALL NOT BE PROVIDED IN CANTILEVER SLAB & BEAMS. THE CANTILEVER BEAMS SHALL BE CAST MONOLITHICALLY WITH INTERIOR BEAM.

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					<div>designtech </div> <div>#365-P, Level-1, Sector-12, Panchkula (HR) • structure engg. • architects • interior designers designtech.7@gmail.com, 0172-2569857</div>		DRAWN BY :	ER. PRIYANKA SAINI	
	PROOF CHECKED BY:						TITLE GENERAL NOTES-3	DATE :	11-02-2020
							CLIENT	SCALE :	NOT TO SCALE
					REGISTERED OFFICE : HOUSE NO. 857, SECTOR-09, PANCHKULA		DRG. NO.	DTECH-003	

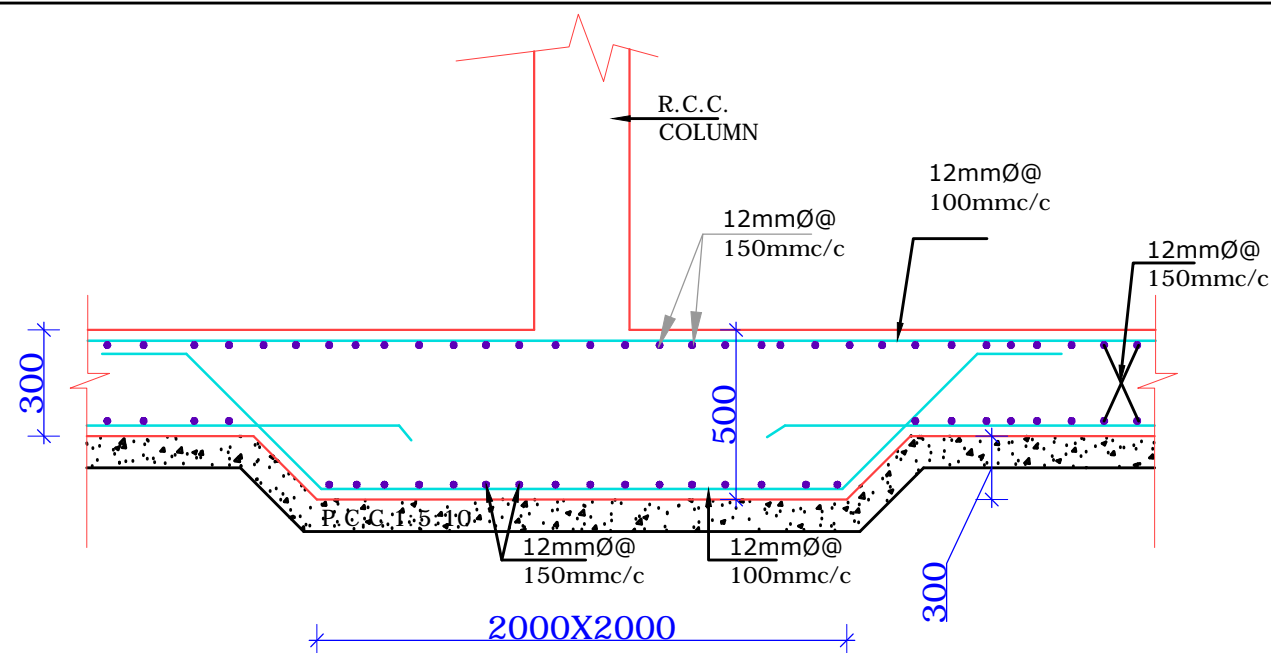


FOUNDATION & COLUMN PLAN LAYOUT

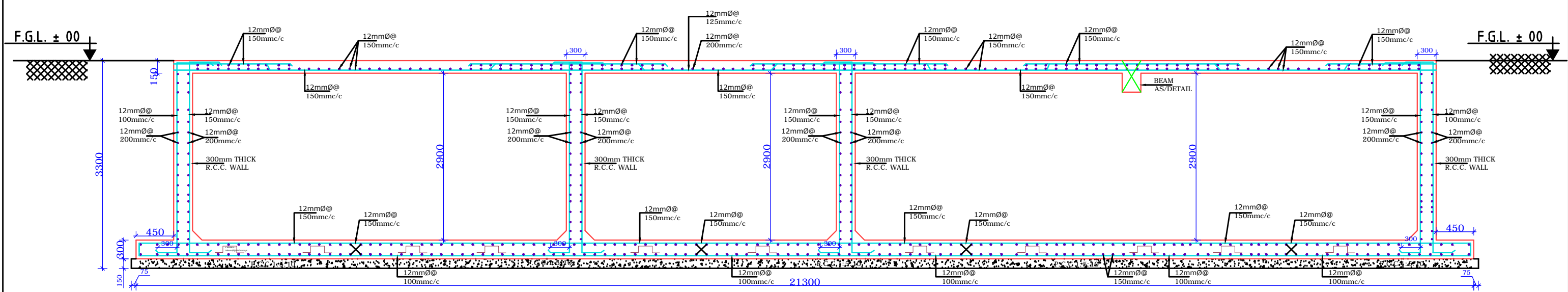
COLUMN C1	SIZE : 450X450	COLUMN C2	SIZE : 450X450
○ 4-25Ø ● 8-20Ø	RINGS: "Z" AREA = 8Ø@75mm c/c "Y" AREA = 8Ø@150mm c/c	● 12-16Ø	RINGS: "Z" AREA = 8Ø@75mm c/c "Y" AREA = 8Ø@150mm c/c
COLUMN C3	SIZE : 300X450	COLUMN C4	SIZE : 300X450
● 8-16Ø	RINGS: "Z" AREA = 10Ø@75mm c/c "Y" AREA = 10Ø@150mm c/c	● 8-25Ø	RINGS: "Z" AREA = 10Ø@75mm c/c "Y" AREA = 10Ø@150mm c/c

- NOTES:-
1. RCC WORK IN TANK SHALL BE OF CONCRETE DESIGN MIX M30
 2. MINIMUM COVER TO REINFORCEMENT SHALL BE AS BELOW
* 30mm FOR ROOF SLAB
* 30mm FOR R.C.C. WALL OUTSIDE(EARTH FACE) & 40mm FOR R.C.C. WALL INSIDE (WATER FACE).
* 50mm FOR BASE SLAB BOTTOM AND 40mm FOR BASE SLAB TOP.
 3. PROVISION OF MAN HOLES, MS STAIRS ETC. IN TANK SHALL BE MADE AS PER SUITABILITY AND REQUIREMENT OF SITE.
 4. INLET PIPE , OUTLET PIPE , SCOUR PIPE, VENT PIPE, OVERFLOW PIPE AND OTHER FIXTURES OF SUITABLE SIZES SHALL BE PLACED AT APPROPRIATE LOCATIONS AS PER DIRECTION OF ENGINEER IN CHARGE (CIVIL & ELECTRICAL) BEFORE CASTING TO AVOID ANY PUNCTURING OF R.C.C. AT LATER STAGE.
 5. CONSTRUCTION JOINT IN RCC WATER TANK DURING CONSTRUCTION SHALL BE PROVIDED AFTER THE PRIOR APPROVAL OF ENGINEER IN CHARGE.
 6. ROOF SLAB SHALL BE CAST AFTER BACK FILLING OF SOIL IN SPECIFIED LAYERS IN OUTER WALL OF TANK.
 7. NECESSARY PROVISIONS SHALL BE MADE TO AVOID ACCUMULATION OF OVER FLOW WATER AROUND THE UG WATER TANK.
 8. TESTING OF UG TANK SHALL BE CARRIED OUT STRICTLY AS PER PROVISION OF CLAUSE 12 OF I.S. 3370 PART-1 2209 BEFORE PUTTING THE TANK IN USE.
 9. THE WATER SHALL BE FILLED FIRST TIME IN THE TANK IN LAYERS STRICTLY AS PER I.S. 3370 PART-1 & 2.
 10. THE FOUNDATION OF WATER TANK SHALL BE KEPT ON HARD STRATA & THE SAME SHALL BE VERIFIED BY ENGINEER IN CHARGE BEFORE EXECUTION.

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							DRAWN BY :	ER. PRIYANKA SAINI
	PROOF CHECKED BY:						DATE :	11-02-2020
		AE	EE	SE	 #365-P, Level-1, Sector-12, Panchkula (HR) • structure engg. • architects • interior designers designtech.7@gmail.com, 0172-2569857	TITLE FOUNDATION & COLUMN PLAN LAYOUT & DETAIL	SCALE :	NOT TO SCALE
							DRG. NO.	DTECH-004
					REGISTERED OFFICE : HOUSE NO. 857, SECTOR-09, PANCHKULA	CLIENT		




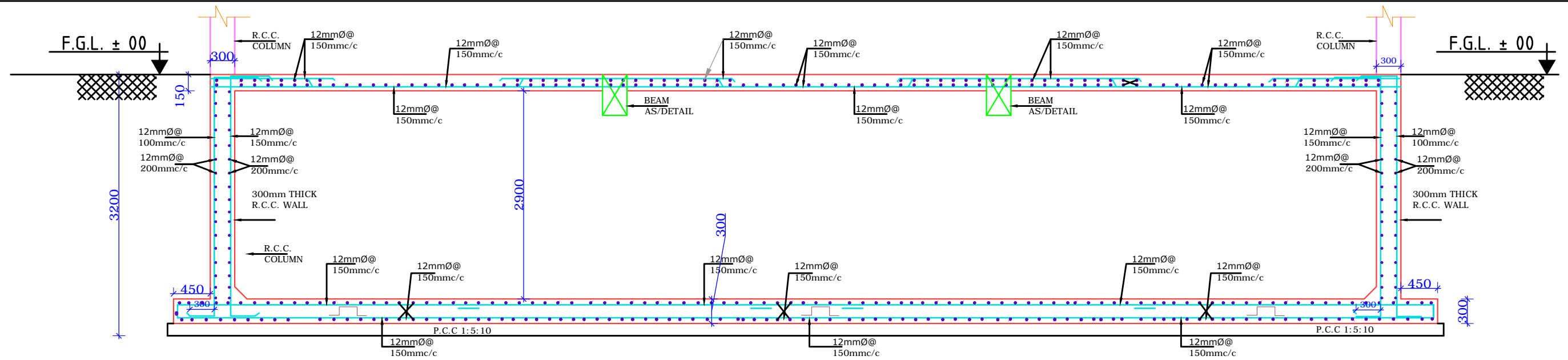
TYPICAL SECTION BELOW
THE CENTRAL RCC
COLUMNS OF UNDER
GROUND TANKS



TANK SECTION AT (B-B)

NOTE :
* WELDING MAY BE DONE FOR L-SHAPE REINFORCEMENT OF CROSS WALL WITH MAIN WALL REINFORCEMENT INSTEAD OF BINDING WIRE.
* LOAD OF FILTER MEDIA @2000 KG/SQM HAS BEEN TAKEN ABOVE ROOF SLAB OF TANK

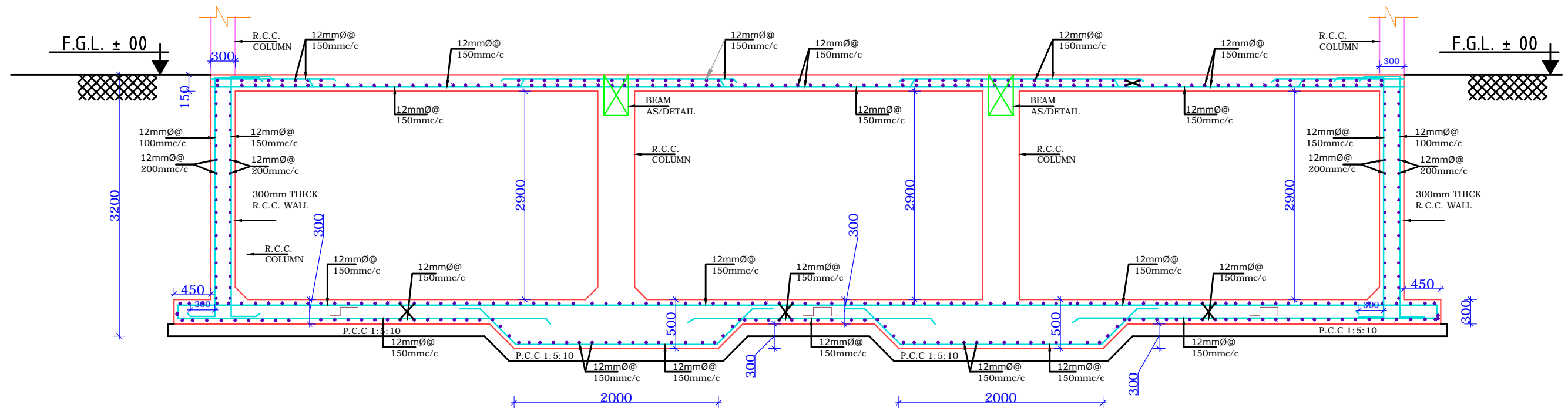
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		PROOF CHECKED BY:					TITLE TANK SECTION DETAIL-1	DATE :	11-02-2020
								SCALE :	NOT TO SCALE
			AE	EE	SE	REGISTERED OFFICE : HOUSE NO. 857, SECTOR-09, PANCHKULA	CLIENT	DRG. NO.	DTECH-005



TANK SECTION AT (C-C)

NOTE :


- * WELDING MAY BE DONE FOR L-SHAPE REINFORCEMENT OF CROSS WALL WITH MAIN WALL REINFORCEMENT INSTEAD OF BINDING WIRE.
- * LOAD OF FILTER MEDIA @2000 KG/SQM HAS BEEN TAKEN ABOVE ROOF SLAB OF TANK

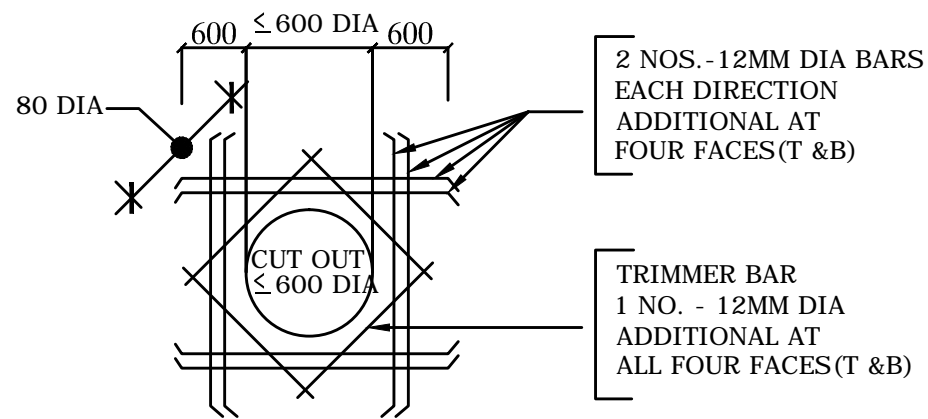


TANK SECTION AT (D-D)

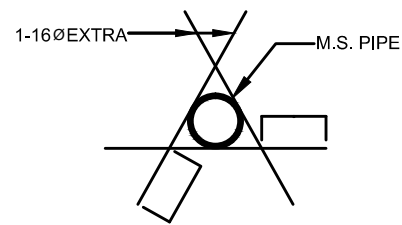
NOTE :

- * WELDING MAY BE DONE FOR L-SHAPE REINFORCEMENT OF CROSS WALL WITH MAIN WALL REINFORCEMENT INSTEAD OF BINDING WIRE.
- * LOAD OF FILTER MEDIA @2000 KG/SQM HAS BEEN TAKEN ABOVE ROOF SLAB OF TANK

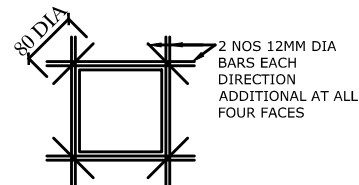
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					<div>designtech</div> <div>#365-P, Level-1, Sector-12, Panchkula (HR) • structure engg. • architects • interior designers designtech.7@gmail.com, 0172-2569857</div>	DRAWN BY :	ER. PRIYANKA SAINI	
	PROOF CHECKED BY:			TITLE TANK SECTION DETAIL-2		DATE :	11-02-2020	
				CLIENT		SCALE :	NOT TO SCALE	
		AE	EE	SE	REGISTERED OFFICE : HOUSE NO. 857, SECTOR-09, PANCHKULA	DRG. NO.	DTECH-006	



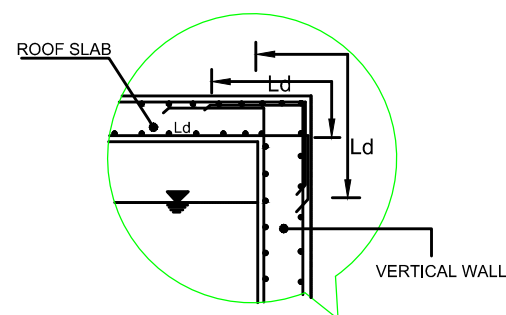
ADDITIONAL REINFORCEMENT AROUND CIRCULAR CUT-OUT (OPENING) IN ROOF SLAB



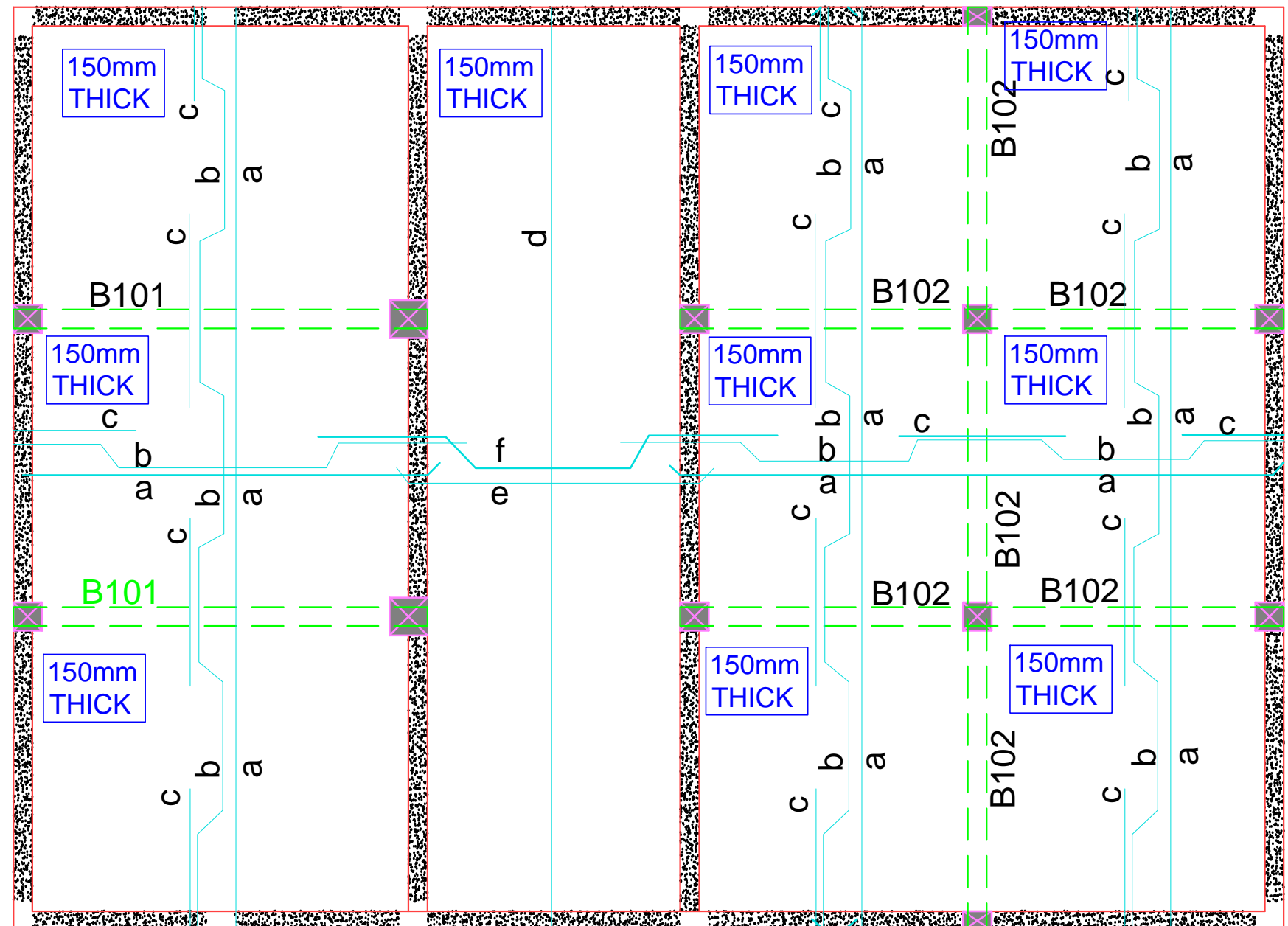
DETAIL OF EXTRA REINFORCEMENT
IN R.C.C. WALL FOR INLET & OUTLET M.S.
PIPE



ADDITIONAL
REINFORCEMENT AT CUTOUT
SIZE 100X100MM




TYPICAL DETAIL AT JOINT OF
WALL WITH ROOF



a, b, c = 12mmØ@300mm/c
e, f, g = 12mmØ@250mm/c
d = 12mmØ@200mm/c
SLAB THICKNESS = 150mm

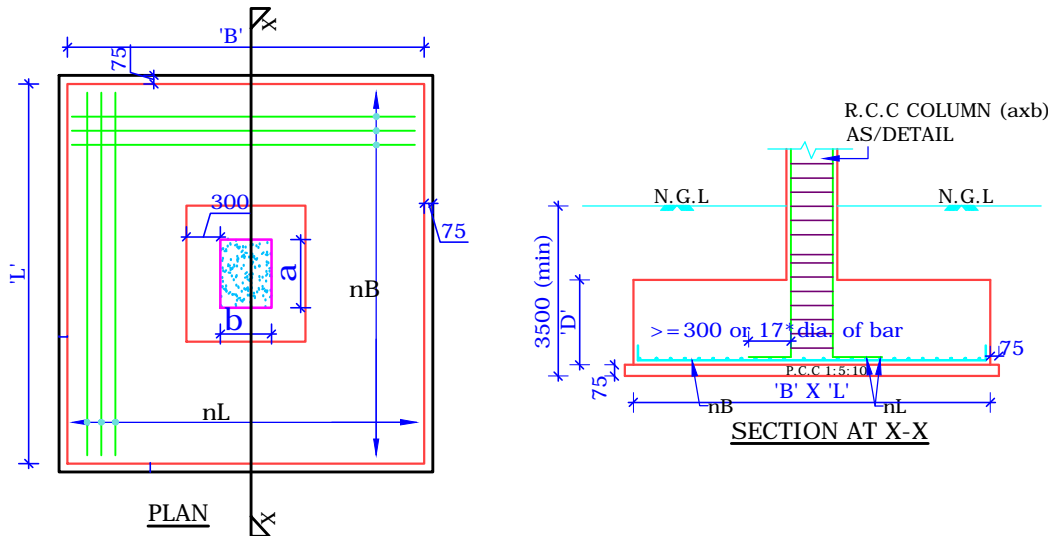
TANK ROOF SLAB & BEAM PLAN LAYOUT

CPWD	SUPERINTENDING ENGINEER CHANDIGARH	GOOD FOR CONSTRUCTION			CONSULTANT	PROJECT : PROPOSED STRUCTURAL DRAWINGS FOR TANK AT PINJORE	DESIGNED BY :	ER .ROHIT GUPTA
					<div>designtech</div> <div>#365-P, Level-1, Sector-12, Panchkula (HR) • structure engg. • architects • interior designers designtech.7@gmail.com, 0172-2569857</div>	TITLE TANK ROOF & BEAM PLAN LAYOUT & DETAIL	DRAWN BY :	ER. PRIYANKA SAINI
		PROOF CHECKED BY:					DATE :	11-02-2020
							SCALE :	NOT TO SCALE
		AE	EE	SE	REGISTERED OFFICE : HOUSE NO. 857, SECTOR-09, PANCHKULA	CLIENT	DRG. NO.	DTECH-007

DETAIL OF BEAMS

SR. NO.	BEAM DESIGNATION	WIDTH (MM)	DEPTH (MM)	LAYER	MAIN REINFORCEMENT					STIRRUPS								REMARKS				
					FIRST SUPPORT		CENTRE		SECOND SUPPORT		FIRST SUPPORT		CENTRE		SECOND SUPPORT							
					TOP NO.-DIA	BOTTOM NO.-DIA	TOP NO.-DIA	BOTTOM NO.-DIA	TOP NO.-DIA	BOTTOM NO.-DIA	LEG	DIA MM	C/C MM	DIST. MM (X1)	LEG	DIA MM	C/C MM	LEG	DIA MM	C/C MM	DIST. MM (X2)	
1.	B101	300	475	1 2	2-25Ø+1-20Ø 2-20Ø	2-25Ø+1-20Ø	2-25Ø+1-20Ø	2-25Ø+1-20Ø	2-25Ø+1-20Ø 2-20Ø	2-25Ø+1-20Ø	2	10	75	1200	2	10	150	2	10	75	1200	
2.	B102	300	475	1 2	3-20Ø 2-20Ø	2-20Ø+1-25Ø -	3-20Ø -	2-20Ø+1-25Ø -	3-20Ø 2-20Ø	2-20Ø+1-25Ø -	2	10	75	1200	2	10	150	2	10	75	1200	

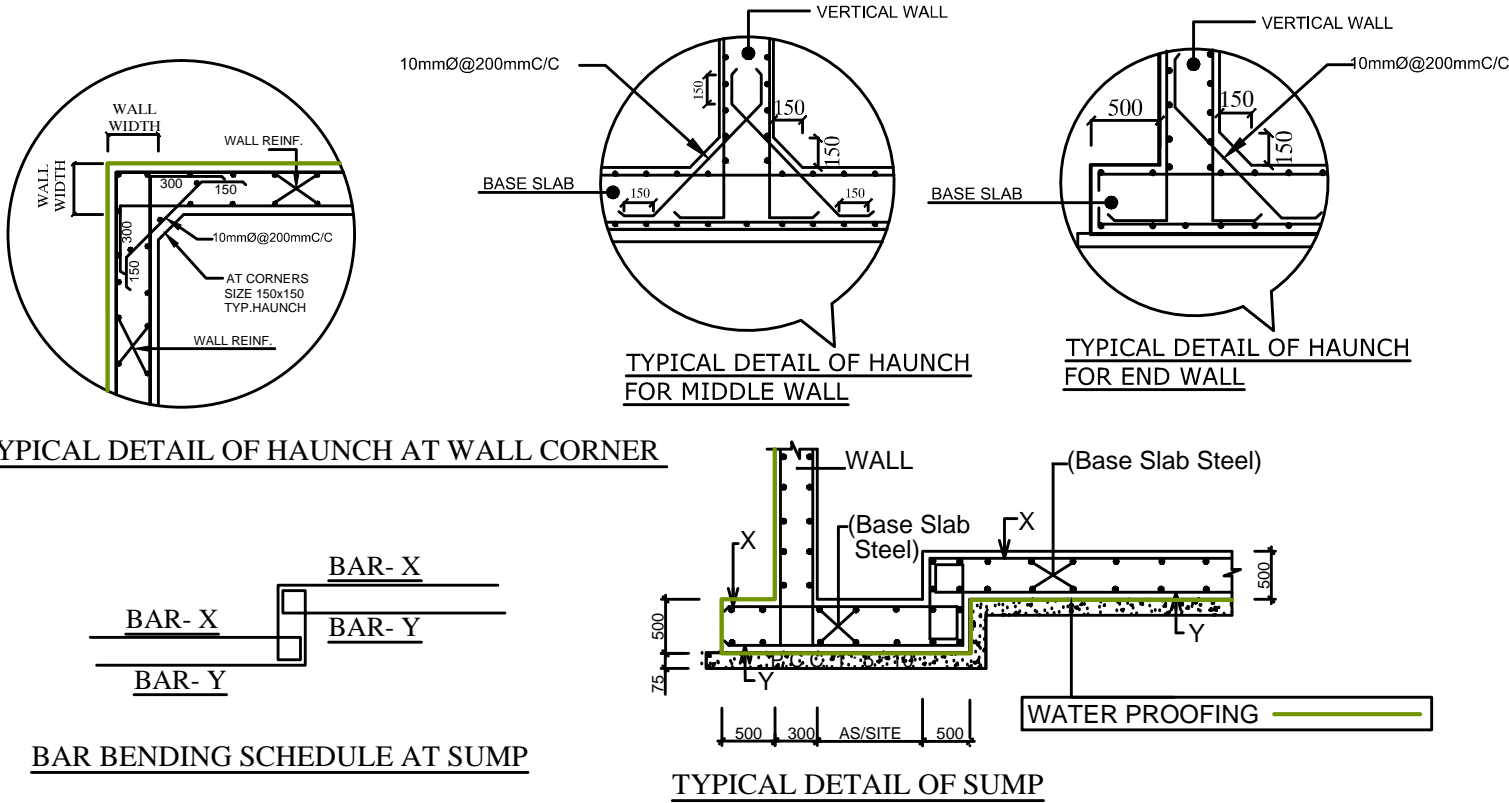
NOTE:-					* THIS DRAWING IS TO BE READ ALONG WITH STRUCTRAL DRAWING OF EVEN NO.-																
DEFINATION OF FIRST & SECOND SUPPORT																					
a).-FOR BEAM ALONG HORIZONTAL LINES (X-AXIS) IN FLOOR PLAN					b).- FOR BEAMS ALONG VERTICAL LINES (Y-AXIS) IN FLOOR PLAN																
- LEFT SUPPORT IS THE FIRST SUPPORT.					- LOWER SUPPORT IS THE FIRST SUPPORT.																
- RIGHT SUPPORT IS THE SECOND SUPPORT.					- UPPER SUPPORT IS THE SECOND SUPPORT.																




TYPICAL DETAIL OF ISOLATED FOOTINGS


SCHEDULE OF ISOLATED FOOTINGS								
S NO.	FOOTING NAME	SIZE OF P.C.C (MM)	FOOTING DIMENSIONS			REINFORCEMENT		COLUMN SIZE (axb)
			'L' (MM)	'B' (MM)	'D' (MM)	'nL'	'nB'	
1.	F1	2250X2250	2100	2100	400	12Ø@150c/c	12Ø@150c/c	AS/LAYOUT
2.	F2	1950X1950	1800	1800	350	12Ø@150c/c	12Ø@150c/c	AS/LAYOUT

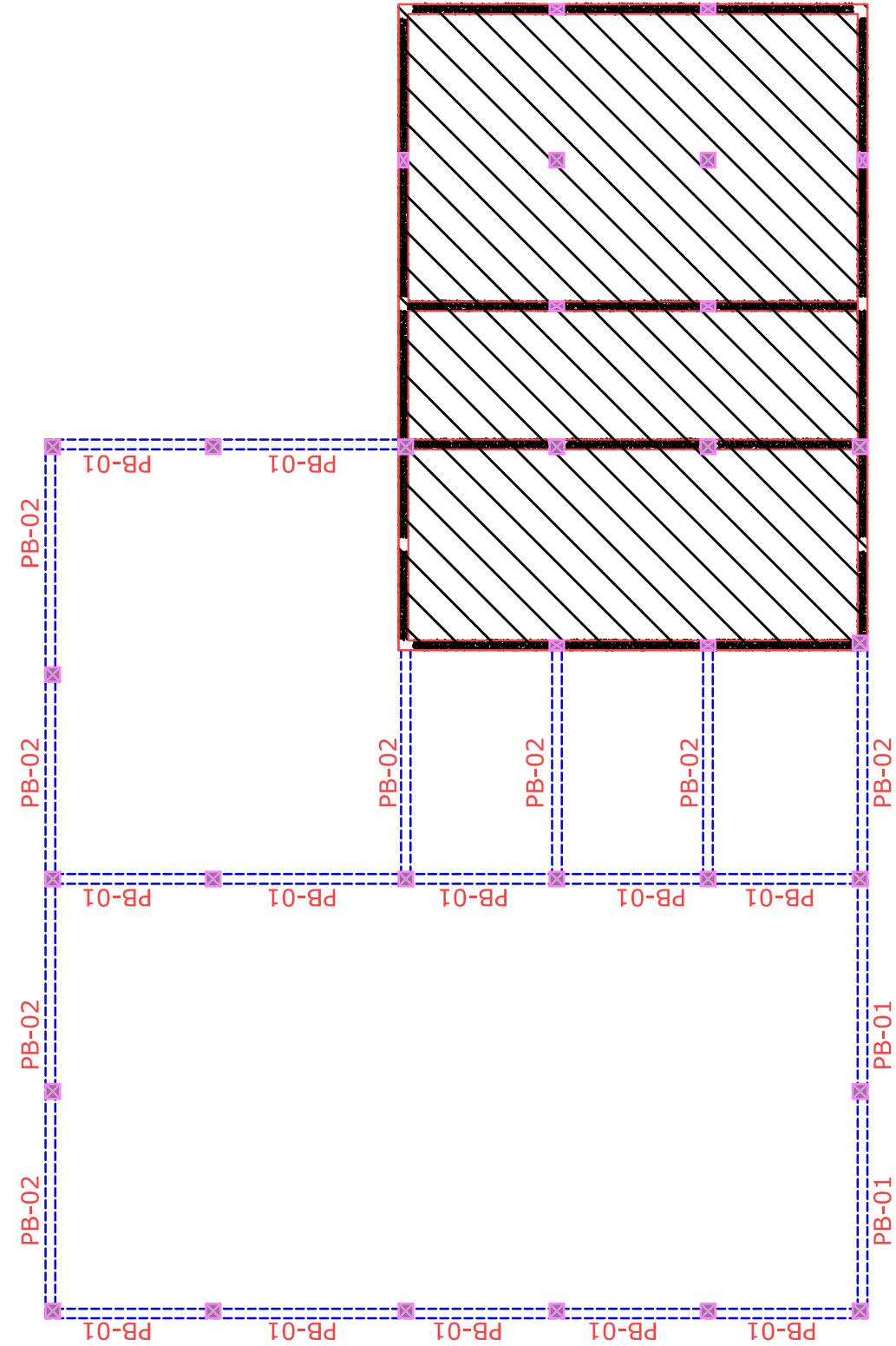
NOTE:- Ø Means TMT Bars of grade Fe500D



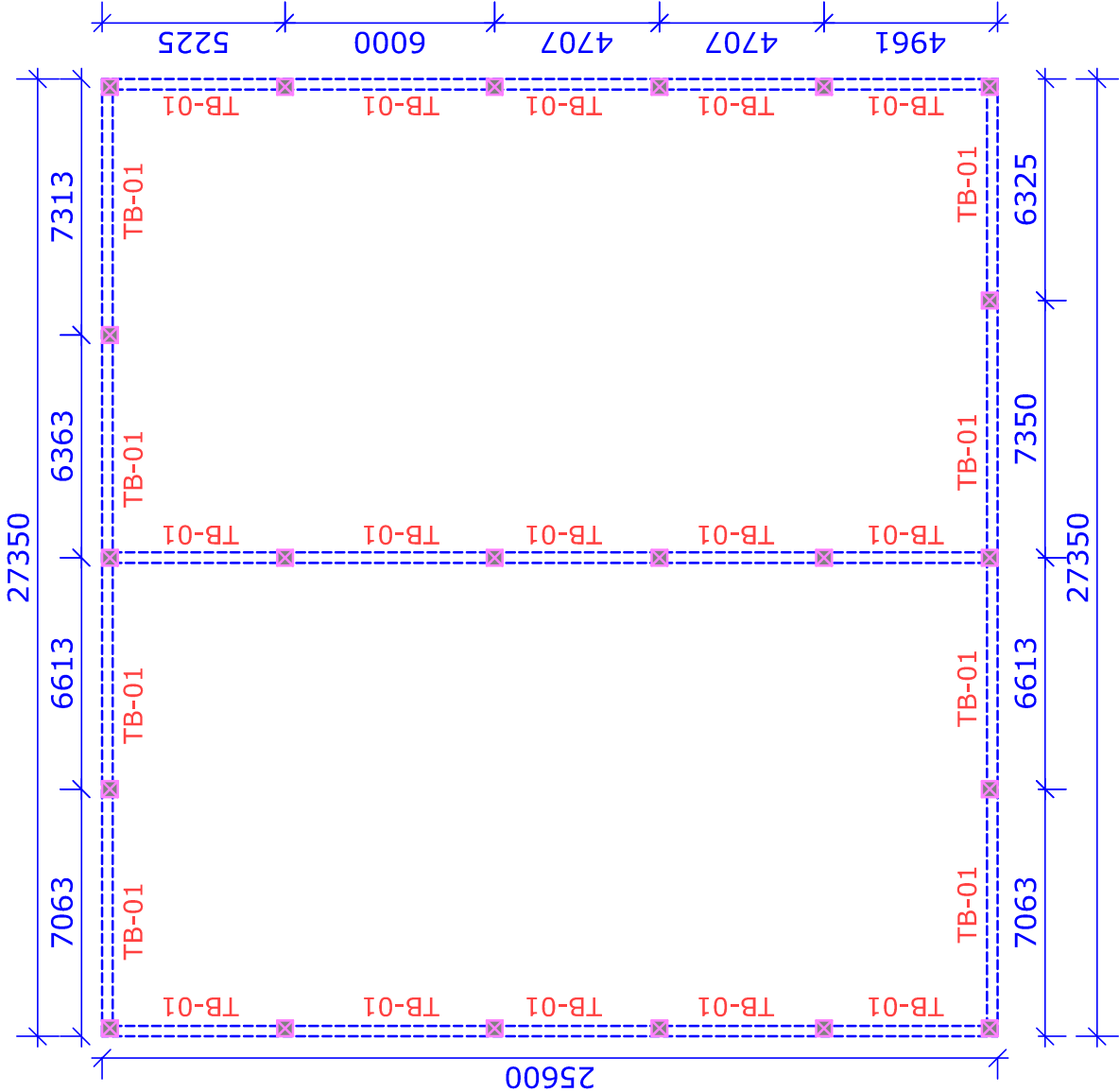
NOTE : WELDING MAY BE DONE FOR L-SHAPE REINFORCEMENT OF CROSS WALL WITH MAIN WALL REINFORCEMENT INSTEAD OF BINDING WIRE .

CPWD	SUPERINTENDING ENGINEER CHANDIGARH	GOOD FOR CONSTRUCTION			CONSULTANT	PROJECT : PROPOSED STRUCTURAL DRAWINGS FOR TANK AT PINJORE	DESIGNED BY :	ER .ROHIT GUPTA
					<div>designtech</div> <div>#365-P, Level-1, Sector-12, Panchkula (HR) • structure engg. • architects • interior designers designtech.7@gmail.com, 0172-2569857</div>		DRAWN BY :	ER. PRIYANKA SAINI
PROOF CHECKED BY:						<div>REGISTERED OFFICE : HOUSE NO. 857, SECTOR-09, PANCHKULA</div>	TITLE BEAM TABLE DETAIL	DATE :
					CLIENT		SCALE :	NOT TO SCALE
		AE	EE	SE			DRG. NO.	DTECH-008

CPWD	SUPERINTENDING ENGINEER CHANDIGARH	GOOD FOR CONSTRUCTION			CONSULTANT	PROJECT : PROPOSED STRUCTURAL DRAWINGS FOR TANK AT PINJORE	DESIGNED BY :	ER .ROHIT GUPTA
					<div>designtech </div> <div>#365-P, Level-1, Sector-12, Panchkula (HR) • structure engg. • architects • interior designers designtech.7@gmail.com, 0172-2569857</div>	DRAWN BY :	ER. PRIYANKA SAINI	
	PROOF CHECKED BY:						DATE :	11-02-2020
			AE	EE		SE	REGISTERED OFFICE : HOUSE NO. 857, SECTOR-09, PANCHKULA	SCALE :
						CLIENT	DRG. NO.	DTECH-010



PLINTH BEAM LAYOUT



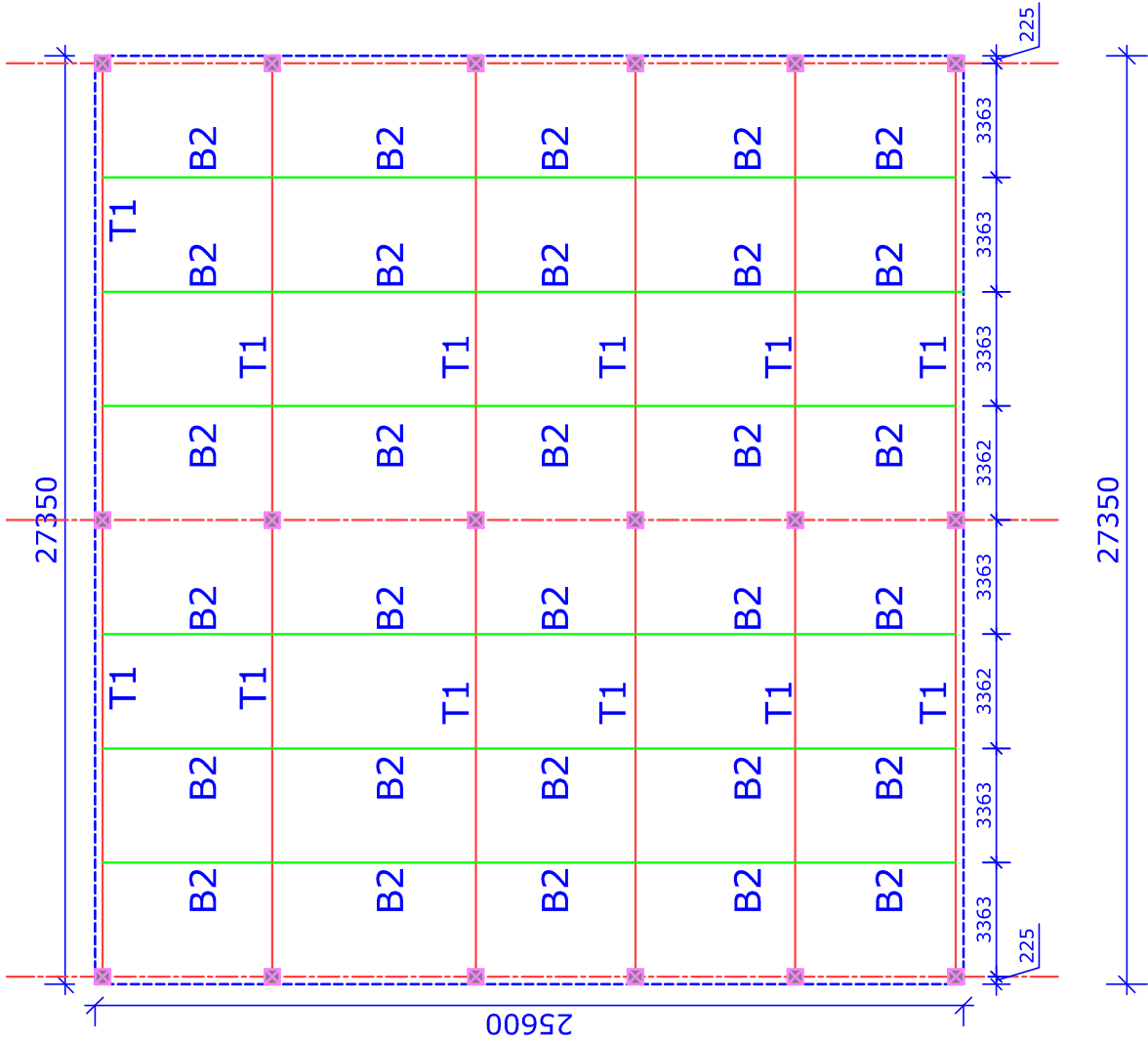
TIE BEAM LAYOUT AT TRUSS LEVEL

DETAIL OF BEAMS													
SR. NO.	BEAM DESIGNATION	MAIN REINFORCEMENT				STIRRUPS				REMARKS			
		FIRST SUPPORT		SECOND SUPPORT		FIRST SUPPORT		SECOND SUPPORT		REMARKS			
		TOP NO.-DIA	BOTTOM NO.-DIA	TOP NO.-DIA	BOTTOM NO.-DIA	LEG DIA C/C MM	DIST. MM (x1)	LEG DIA C/C MM	DIST. MM (x2)	DIA C/C MM	LEG DIA C/C MM	DIA C/C MM	DIST. MM (x2)
1	TB-01	3-200	3-200	3-200	3-200	2	8	2	8	100	2	8	100
1	PB-01	3-200	3-200	3-200	3-200	2	8	2	8	100	2	8	100
1	PB-02	3-250	3-250	3-250	3-250	2	8	2	8	100	2	8	100

NOTE:-
DEFINITION OF FIRST & SECOND SUPPORT
a)-FOR BEAM ALONG HORIZONTAL LINES (X-AXIS) IN FLOOR PLAN
- LEFT SUPPORT IS THE FIRST SUPPORT.
- RIGHT SUPPORT IS THE SECOND SUPPORT.
b)- FOR BEAMS ALONG VERTICAL LINES (Y-AXIS) IN FLOOR PLAN
- LOWER SUPPORT IS THE FIRST SUPPORT.
- UPPER SUPPORT IS THE SECOND SUPPORT.

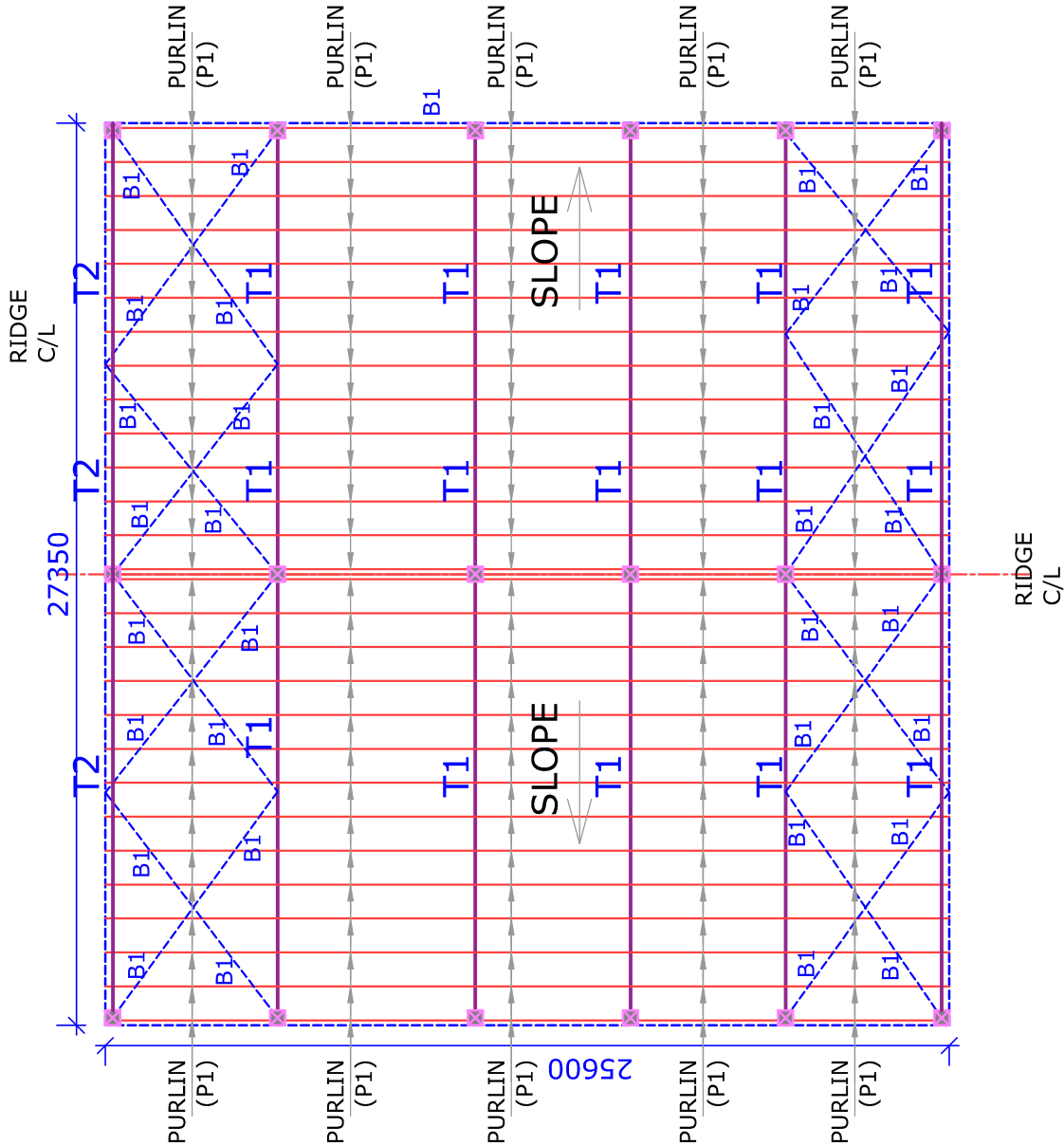
* THIS DRAWING IS TO BE READ ALONG WITH STRUCTURAL DRAWING OF EVEN NO. *

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							DRAWN BY :	ER. PRIYANKA SAINI	
PROOF CHECKED BY:					<div>REGISTERED OFFICE : HOUSE NO. 857, SECTOR-09, PANCHKULA</div>	TITLE TRUSS, BRACING AND PURLIN LAYOUT	DATE :	11-02-2020	
						CLIENT	SCALE :	NOT TO SCALE	
		AE	EE	SE			DRG. NO.	DTECH-011	



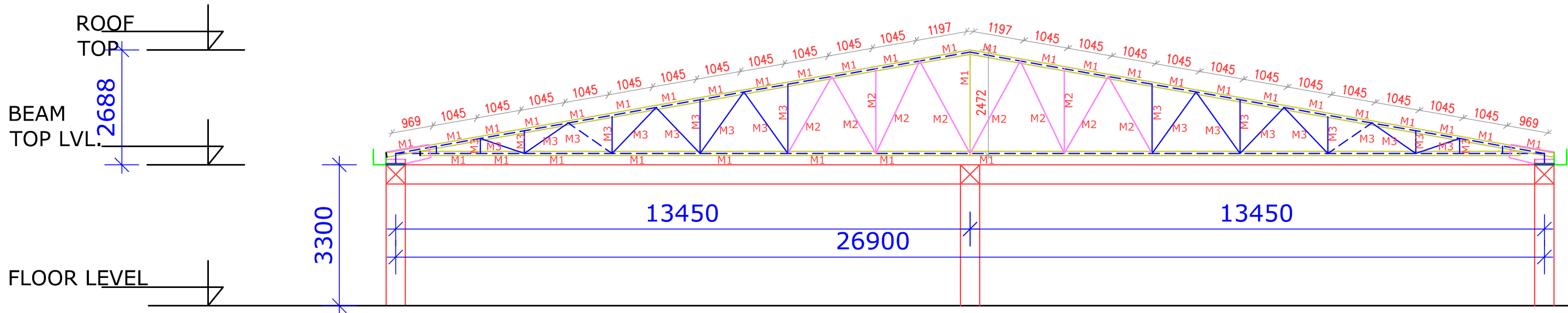
BRACING AT TRUSS BOTTOM LEVEL

TRUSS TOP BRACING
B2=PIPE OD-60.3mm, TW-3.65mm



ROOFING LAYOUT

Purlins P1=PIPE OD-114.3mm, TW-4.5mm
TRUSS TOP BRACING
B1=PIPE OD-60.3mm, TW-3.65mm




TRUSS -T1

TRUSS INDEX

MEMBER M1=PIPE OD-88.90mm, TW-4.8mm
MEMBER M2=PIPE OD-60.3mm, TW-3.65mm
MEMBER M3=PIPE OD-42.4mm, TW-3.2
WELDING 6mm THICK FILLET WELDING

TYPICAL NOTES

1. All dimensions are in mm unless otherwise specified. this Drg. is not to scale, therefore all the written dimensions should be followed as per arch. drawings.
2. Any discrepancy between arch. Drg. and structural Drg. to be got clarified before execution.
3. All welding shall conform to I.S. : 6227 & I.S. : 806 and shall be in fillet weld pattern of thickness notless than 6 mm unless, otherwise, specified.
4. The electrodes used for welding shall conforM to requirement of I.S. : 814.
5. All structural steel (other than tubular steel) shall conform to I.S. : 226.
6. All steel tubes will be grade Yst 210 & conforming to I.S. : 1161- 1998 (Yst 210 same as 210 & as Yst 22).
7. The bolts and nuts with washer shall be as per I.S.: 800- 2007.
8. Spacing and edge distance of bolts shall be per IS: 800-1962 (28.2).
9. Proper camber may be provided in the bottom tie.
10. All gusset/filler plates shall be 8 mm thick unless, specified otherwise.
11. The structure will have welded connections except where bolted connections is specified. All the welded connection should be welded continuous for full contact length.
12. The axis of all the truss members of a truss shall be in one vertical plane.
13. All open ends of tubes shall be sealed with 3 mm thick plate.
14. Care should be taken during erection of truss, as no provision has been made for temporary erection stresses.
15. The tubes are designated with their nominal bore expressed in mm.
16. Necessary architectural features shall be maintained as per relevant architectural Drgs.
17. Wherever the gusset plate is used, minimum 15 degree angle shall be provided between truss member and gusset plate edge.
18. The length of welds required shall be increased by 25% in case of field welding.
19. All shop connections are welded and field Connections shall be bolted or welded as required.
20. The Length of the shoe angle shall be same as column cap plate.
21. For centre line distances Architectural drgs shall be referred.

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PROOF CHECKED BY:				CLIENT		DATE :	11-02-2020	
	AE	EE	SE	REGISTERED OFFICE : HOUSE NO. 857, SECTOR-09, PANCHKULA		SCALE :	NOT TO SCALE	
						DRG. NO.	DTECH-012	