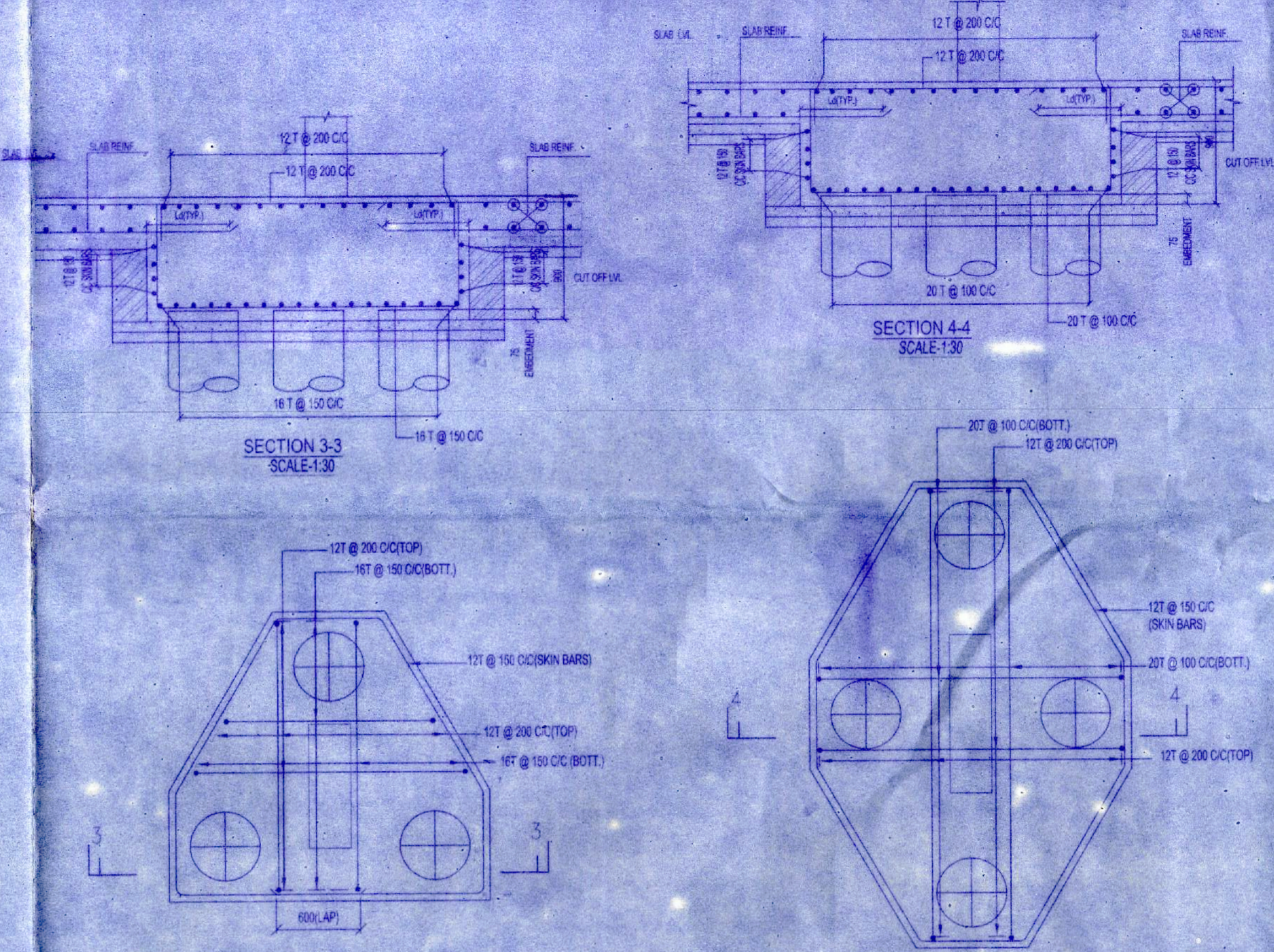
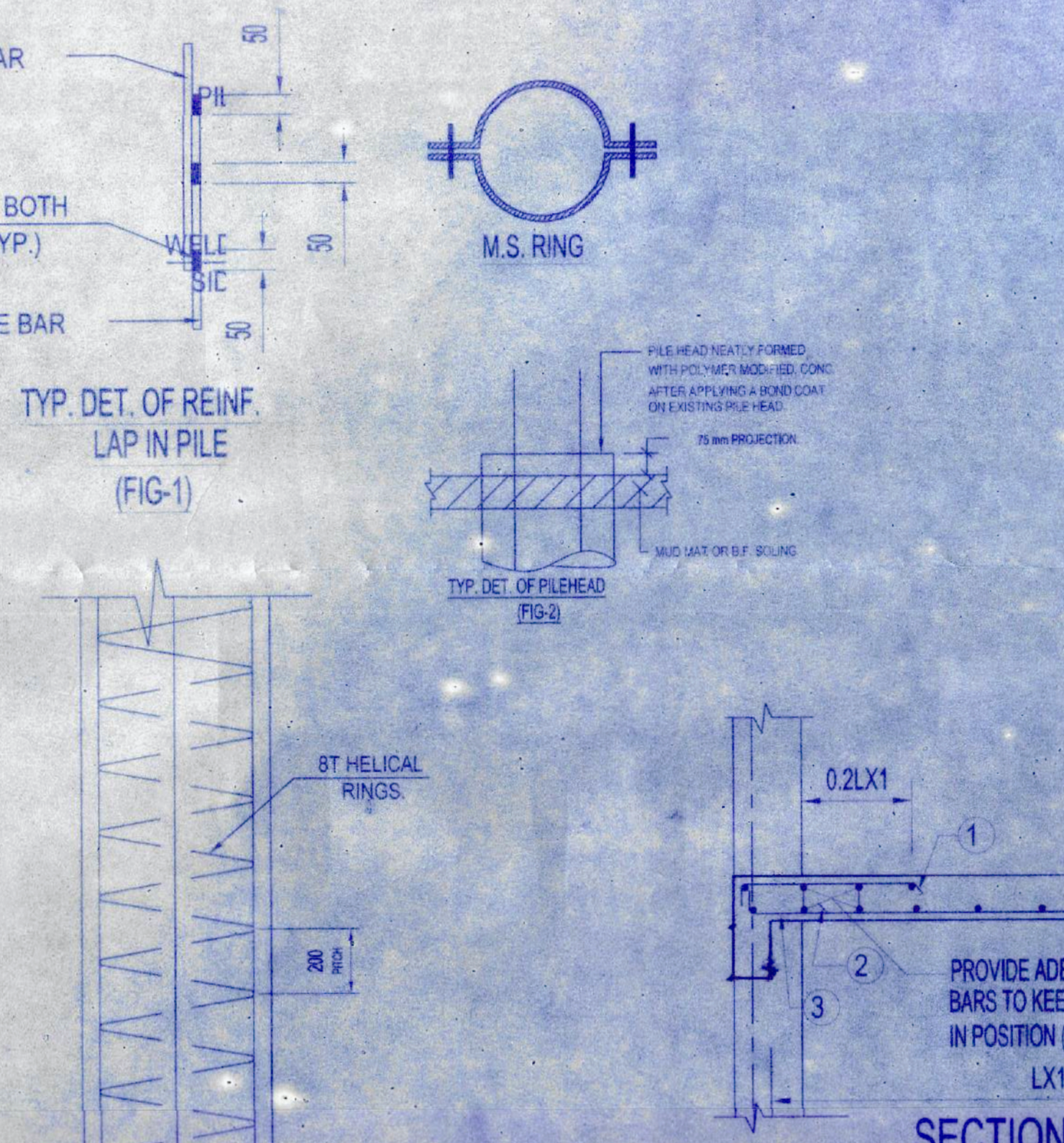


PILE INSTALLATION (BORED CAST-IN-SITU PILE)

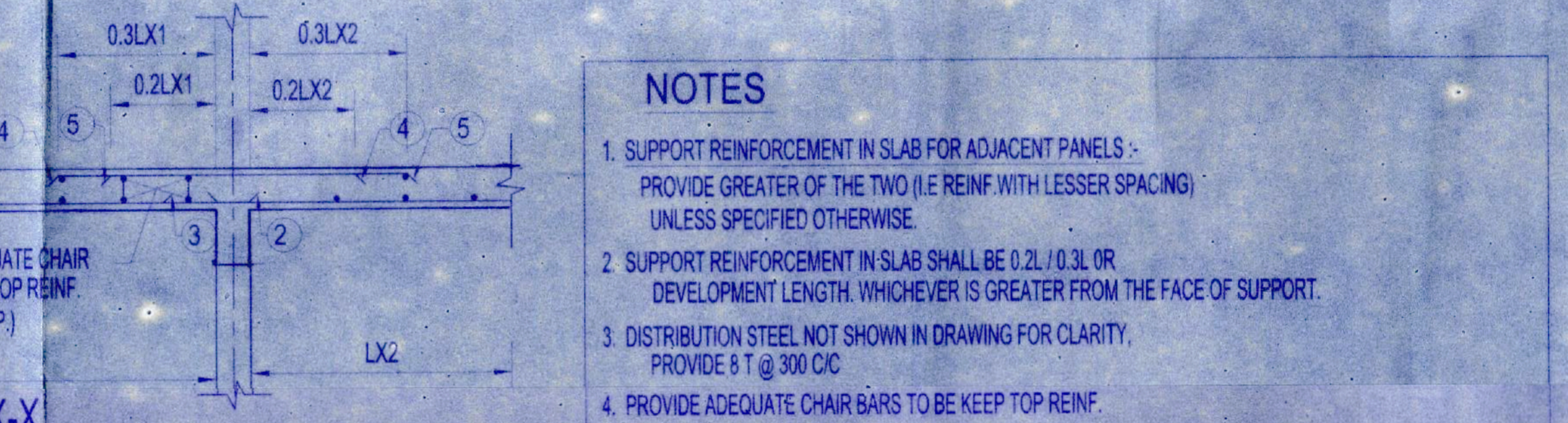
- ALL REINFORCEMENT IN PILE SHAFTS SHALL BE TMT BARS OF GRADE Fe 500 CONFORMING TO IS: 1786-2008.
- CONC MIX IN PILE SHALL BE M-30 WITH MINIMUM CEMENT CONTENT OF 400 Kg/CUM OF CONC. AND SLUMP OF CONC BETWEEN 150mm TO 180mm.
- CLEAR COVER TO REINF. PILE 50 mm. (ROLLER TYPE COVER BLOCK TO BE USED).
- POSITIONAL ECCENTRICITY OF ANY PILE MORE THAN 50mm FOR SINGLE PILE AND 75 mm. FOR GROUP OF PILES SHALL NOT BE PERMITTED.
- ALL LAP JOINTS SHALL BE 50 X D AND TACK WELDED AS SHOWN IN FIG-1.
- THE PILE HEADS SHALL PROJECT INTO PILE CAP FOR 75 mm THE HEADS TO BE NEATLY FORMED TO THE REQUIRED DIA. AS PER FIG-2.
- CONTRACTOR SHALL NOTE THAT THE PILE CAPACITY, CUT OFF LEV. AND TERMINATION LEVELS SHOWN, ARE TENTATIVE AND INDICATIVE ONLY. THIS MAY VARY AS PER SITE CONDITIONS.
- DMC METHOD OF PILE BORING SHALL BE ADOPTED BY CIRCULATING DRILLING FLUID OF SP. GR. 1.03 TO 1.1 AND IN NO CASE IT SHOULD EXCEED 1.12 CONFORMING TO IS-2511.
- FIELD CONSISTENCY TEST WITH S.P.T SHALL BE CONDUCTED TO ENSURE THE DESIRED S.P.T VALUE AT TERMINATION LEV. AS PER FOLLOWING FREQUENCY:
 - FROM 2.0M ABOVE THE TERM. LEV. FOR 1st PILE &
 - FROM 1.0M ABOVE THE TERM. LEV. FOR EVERY 10th. PILE THEREAFTER
- BORING SHALL CONTINUE DEEP (AY. 6.5m) INSIDE STRATUM - T₂ CONSISTING OF VERY DENSE LIGHT BLUSH GREY SILTY SAND. (N VALUE = 42)

PILE CAPACITY SHALL BE AS FOLLOWS:-

PILE MKD.	DIA OF PILE	LEGEND OF PILE	SHAFT LENGTH	CAPACITY
BP	500 Ø	⊕	22 M.	80 TON.
BP1	450 Ø	⊕	15.5 M.	29 TON.



R.C. DET. OF PILE CAP MKD-3BP SCALE:1:30
R.C. DET. OF PILE CAP MKD-4BP SCALE:1:30



SECTION X-X

NOTES

- SUPPORT REINFORCEMENT IN SLAB FOR ADJACENT PANELS - PROVIDE GREATER OF THE TWO (Lx REINF. WITH LESSER SPACING) UNLESS SPECIFIED OTHERWISE.
- SUPPORT REINFORCEMENT IN SLAB SHALL BE 0.2Lx0.3L OR DEVELOPMENT LENGTH, WHICHEVER IS GREATER FROM THE FACE OF SUPPORT.
- DISTRIBUTION STEEL NOT SHOWN IN DRAWING FOR CLARITY. PROVIDE ØT @ 300 CC.
- PROVIDE ADEQUATE CHAIR BARS TO KEEP TOP REINF.

NOTES FOR SLAB :

- ALL SMALL PLUMBING CUTOUTS (SIZE MAXIMUM 200X200) ARE NOT SHOWN IN PLAN. COORDINATE WITH ARCH & SERVICES DRG. FOR THE SAME. TRIMMER BAR ON SPECIAL (FIG-1) TO BE GIVEN. THE SLAB REINF. TO RUN THROUGH BUT THE CUTOUT NOT TO BE CAST. THE SAME SHALL BE DONE AT LATER DATE AFTER INSERTION OF PIPES.
- FOR BIGGER CUTOUTS MORE THAN 200X200, SPECIAL DETAIL TO BE FOLLOWED.
- SUPPORT REINFORCEMENT IN SLAB FOR ADJACENT PANELS - PROVIDE GREATER OF THE TWO (Lx REINF. WITH LESSER SPACING) UNLESS SPECIFIED OTHERWISE.
- SUPPORT REINFORCEMENT IN SLAB SHALL BE 0.2Lx0.3L OR DEVELOPMENT LENGTH OF BAR, WHICHEVER IS GREATER FROM THE FACE OF SUPPORT.
- DISTRIBUTION STEEL NOT SHOWN IN DRAWING FOR CLARITY. PROVIDE ØT @ 300 CC.
- CURTAILMENT OF BOTTOM REINF. - NO CURTILMENT OF BTM REINF. SHALL BE DONE FOR BARS HAVING SPACING 200 OR MORE.
- WHEREVER BRICK WALL IS THERE ON SLAB PROVIDE 3-12T EXTRA REINF. AT BOTTOM SUPPORT TO SUPPORT.

ALL FINISHED LEVEL TO BE COORDINATED WITH ARCH. DRG.
LOCATIONS & SIZES OF ALL CUTOUT AS PER ARCH. DRG.
FOR FLOOR LEV. REFER ARCH. DRG.

SCHEDULE OF FLOOR BEAMS (M-25)

BEAM SIZE	END SUPPT.	BEAM SPAN	STRIP	REMARKS
200X300	1-1HT	3-1HT	2-1HT	ØT.ØL @ 100 CC
200X300	1-1HT	2-1HT	2-1HT	ØT.ØL @ 100 CC
200X300	1-1HT	2-1HT	2-1HT	ØT.ØL @ 100 CC
200X300	1-1HT	2-1HT	2-1HT	ØT.ØL @ 100 CC

SCHEDULE OF SLAB

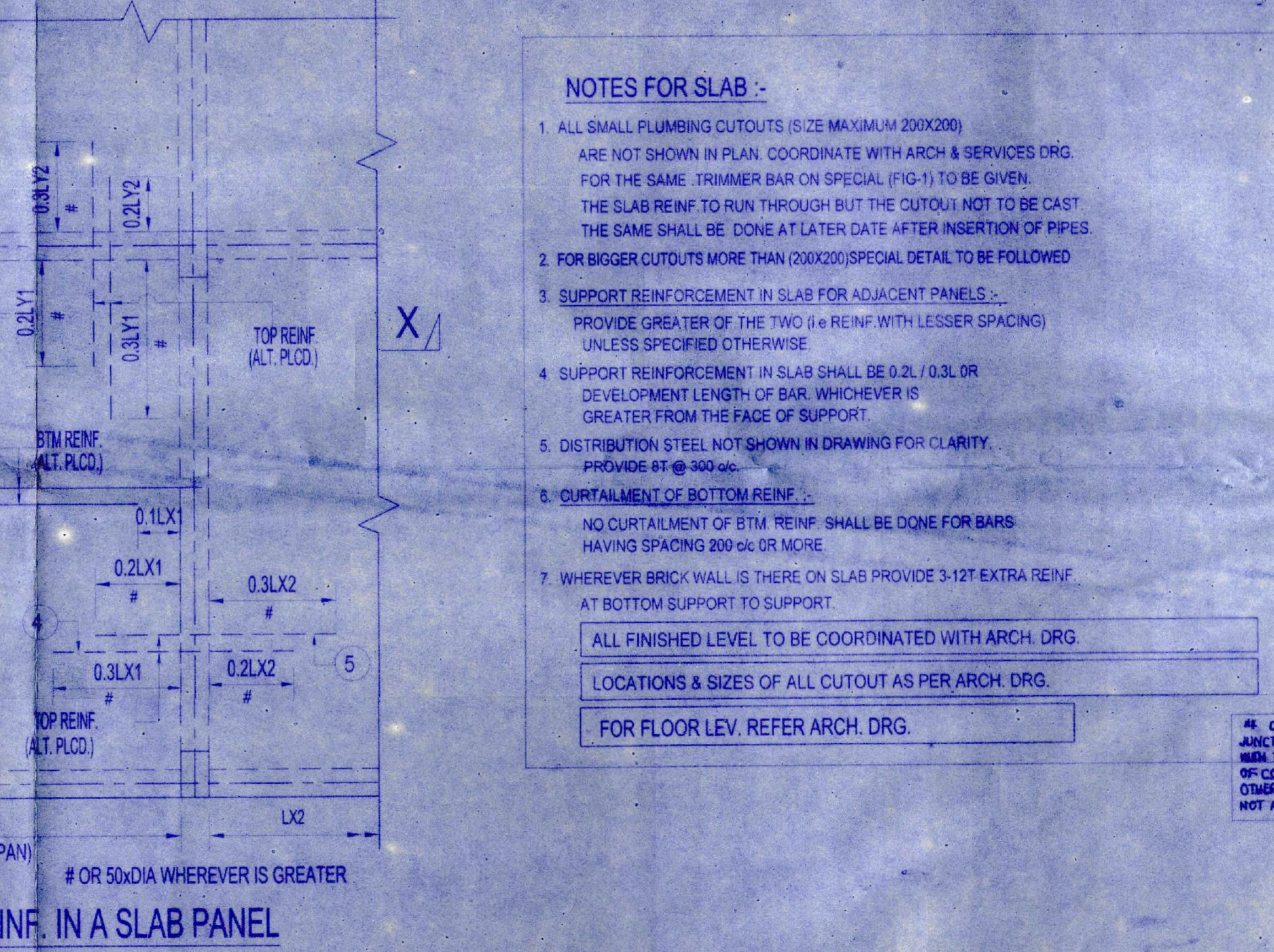
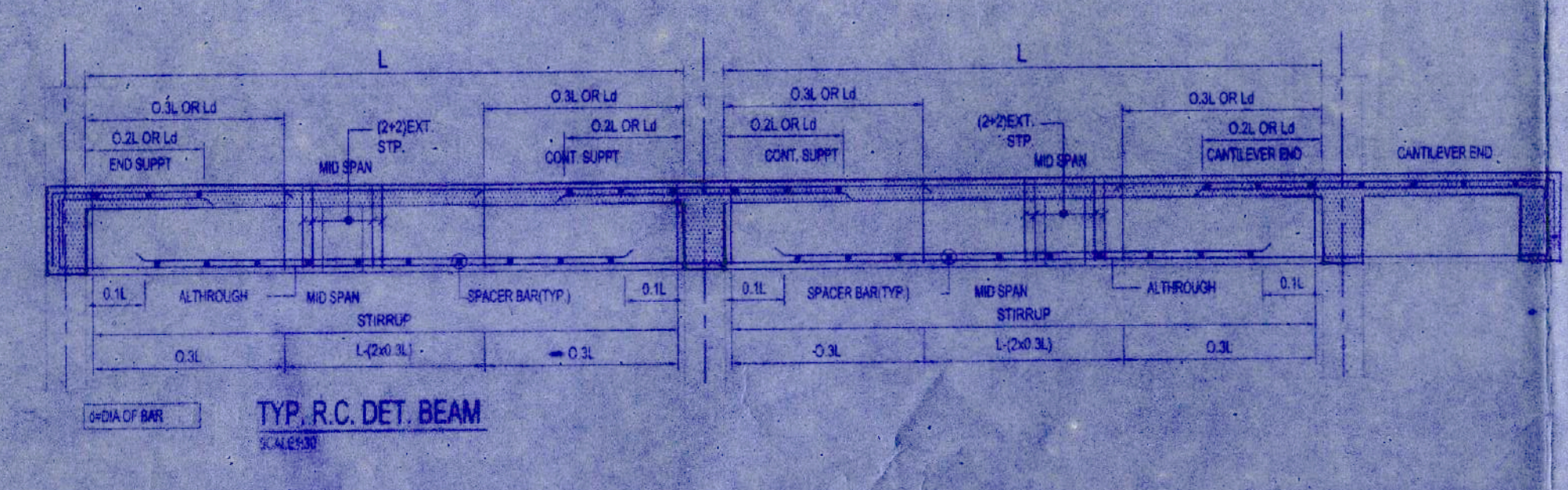
SLAB THICKNESS	SUPPORT	MID SPAN	LONGER DIR.	SHORTER DIR.
150 THK.	10T @ 100 CC	10T @ 125 CC	10T @ 125 CC	10T @ 150 CC
125 THK.	8T @ 100 CC	8T @ 125 CC	8T @ 125 CC	8T @ 150 CC
110 THK.	8T @ 125 CC	8T @ 150 CC	8T @ 150 CC	8T @ 150 CC

SCHEDULE OF COLUMN

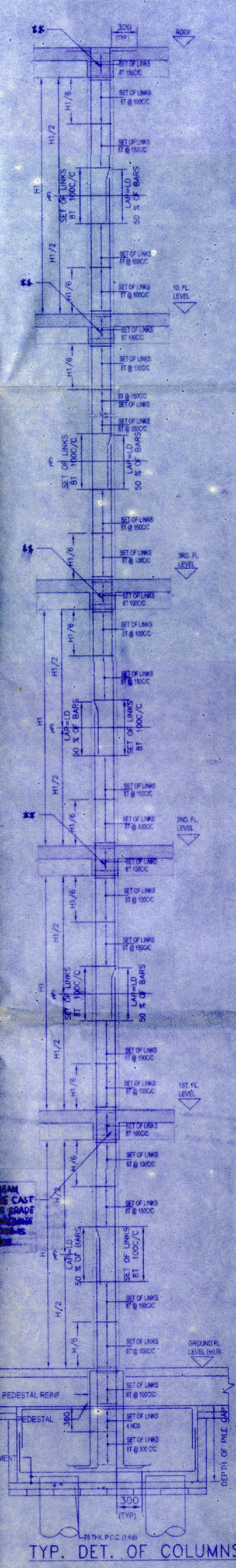
FLOOR	TO	FROM	SECTION
ROOF	TO	10-12T	M-25
3RD FLOOR	TO	10-12T	M-30
3RD FLOOR	TO	10-12T	M-30
1ST FLOOR	TO	10-12T	M-40
1ST FLOOR	TO	10-12T	M-40
FOUNDATION	TO	10-12T	M-40

CHART FOR PILE CAP DEPTH

PILE CAP MKD.	DIA OF PILE	PILE DEPTH
2BP1	450 DIA	700 MM.
3BP1	450 DIA	800 MM.
2BP	500 DIA	800 MM.
3BP	500 DIA	1000 MM.
4BP-ABOVE	500 DIA	1200 MM.



TYP. ARRANGEMENT OF REINF. IN A SLAB PANEL SCALE:1:100



TYP. DET. OF COLUMNS

SPECIFICATION

- ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.
- ALL OUTER WALLS ARE 200X250 MM.
- ALL PARTITION WALLS ARE 100 MM UNLESS OTHERWISE SPECIFIED.
- BRICK WORK OF ALL 200X250 WALLS SHALL BE IN C.M. 1:1:6.
- DOCKWORK OF ALL 100 WALLS SHALL BE IN C.M. 1:1:6 WITH 10% SETTING.
- 15 MM TH. C. PLASTER WITH C.M. 1:1:6 FOR OUTER WALLS.
- 20 MM TH. C. PLASTER WITH C.M. 1:1:6 FOR INSIDE WALLS.
- 10 MM TH. C. PLASTER WITH C.M. 1:1:6 FOR CEILING.
- 25 MM TH. D.P.C. (1:2:4) SHALL BE PROVIDED.
- 10 MM TH. VIRIDIOUS FLEES FLOORING.
- 15 MM WIDE VIRIDIOUS SHERTING.
- THE DEPTH OF SEWAGE TREATMENT PLANT & WATER RESERVOIR WOULD NOT EXCEED THE DEPTH OF MAIN BUILDING FOUNDATION.
- GRADE OF CONCRETE (R.C.C.) M-20/M-25
- GRADE OF STEEL = Fe-415
- DEPTH OF FOUNDATION = 2000 MM.

Declaration of E.B.A.

I HAVE CERTIFIED ON THE PLAN ITSELF WITH FULL RESPONSIBILITY THAT BUILDING RULES 2007 AS AMENDED FROM TIME TO TIME AND THAT THE SITE CONDITIONS INCLUDING THE ADJUTING ROAD CONFORM WITH THE PLAN AND THAT IT IS A BUILDABLE SITE AND NOT A TANK OR A FILLED UP LAND.

CERTIFICATE OF STRUCTURAL STABILITY

UPPAL SANTRA
REGISTERED PROFESSIONAL ENGINEER
No. 044/RPSPON/2005/2015-16

SIGNATURE OF ARCHITECT
SAUGATA MITTRA
6/6/RPSPON/2011/10

SIGNATURE OF STRUCTURAL ENGINEER
UPPAL SANTRA
No. 044/RPSPON/2005/2015-16

SIGNATURE OF GEO-TECHNICAL ENGINEER
ALOK ROY
6A, MILAN PARK, KOLKATA - 700 084
EMPANELMENT NO. - GT/108

PROJECT TITLE :
PROPOSED PLANS FOR G+VII STORED (HEIGHT = 25.5 MTR.) BUILDING AT PREMISES NO. - 1479 KUSUMBA, MOUZA - KUSUMBA, J.L. NO. - 50, P.S. - SONARPUR, WARD NO. - 7, KHATIAN NO. - 2831, 2832, 2833, 2834, R.S. DAG NO. - 1556, 1561, 1560, 1558, 1541, 1567, 1568, 1579, 1559, 1580, 1578, 1581, 1582, 1583, 1605/2506, 1606, 1605(P), 1607(P), 1584(P), 1585(P), L.R. DAG NO. - 1629, 1635, 1634, 1633, 1631, 1612, 1639, 1640, 1651, 1632, 1652, 1650, 1653, 1654, 1655, 1677, 1679, 1678(P), 1680(P), 1656(P), 1657(P) UNDER RAJPUR SONARPUR MUNICIPALITY, DIST. - 24 PGS. (SOUTH)

DRAWING
TYPICAL FLOOR & ROOF LAYOUT

PROJECT ARCHITECT :-
CONSULTANTS FOR HUMAN SETTLEMENT
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OFFICE USE ONLY

Stamp of the Structural Engineer and the Assistant Engineer.