

**PROJECT:**  
 PROPOSED G+ XVII STORED RESIDENTIAL BUILDING U/S -393A OF C.M.C. ACT -1980 COMPLYING K.M.C. BUILDING RULE 2009 AT 5/1 NERODE BEHARI MULLICK ROAD, KOLKATA - 700006, UNDER K.M.C. IN WARD NO.- 15, BOROUGH NO.- II, P.S.- MANICKTALA, HAVING HEIGHT - 65.280 M.

- NOTES:**
1. DIMENSIONS ARE IN M.M. & LEVELS ARE IN M. U.M.C.
  2. GRADE OF REINFORCEMENT IS F450.
  3. GRADE OF CONCRETE IS M40.
  4. I. COLUMNS BEAMS, SLABS UP TO 3RD FLOOR LEV. = M40
  5. I. COLUMNS BEAMS, SLABS FROM 3RD FLOOR LEV. = M35
  6. I. COLUMNS BEAMS, SLABS UP TO 3RD FLOOR LEV. = M40
  7. I. COLUMNS BEAMS, SLABS FROM 3RD FLOOR LEV. = M35
  8. CLEAR COVER TO REINFORCEMENT -
  9. FLOOR SLAB - 120 mm
  10. COLUMN & TIE BEAM = 40 mm
  11. WALL BEAM = 25 mm
  12. SPECIAL NOTES FOR PILES:-
  13. MINIMUM W.C. RATIO SHALL BE 150 TO 180.
  14. MINIMUM CEMENT CONTENT IS 400KG/CUM OF CONCRETE.
  15. CUTTING SHALL BE DONE BY CHEESE AND BALLER.
  16. EXTRUSION SHALL BE DONE BY D.M.C. METHOD.
  17. ROLLER TYPE COVER BLOCK IS TO BE USED.
  18. SPECIFIC GRAVITY OF BENTONITE SLURRY AFTER WASH SHALL BE 1.1 TO 1.12.
  19. PILE TO BE TESTED IN ACCORDANCE WITH IS 2911 PART-4.

**CERTIFICATE OF GEO TECHNICAL ENGINEER**  
 THE SOIL INVESTIGATION REPORT OF THE SAID PREMISES HAS BEEN MADE BY ME ON THE BASIS OF SOIL TEST AS PER GUIDELINE PROVIDED BY I.S. CODE.

SIGNATURE: *[Signature]*  
 PRASANTA KUMAR GHOSH  
 Geotechnical Engineer  
 BRUNNEN (P) PVT.  
 CLASS-I/II

**CERTIFICATE OF STRUCTURAL ENGINEER**  
 THE STRUCTURAL DESIGN OF BOTH FOUNDATION AND SUPERSTRUCTURE OF THE BUILDING HAVE BEEN MADE BY ME CONSIDERING ALL POSSIBLE LOADS INCLUDING THE SEISMIC LOAD AS PER I.E.C. OF INDIA AND BASIS OF SOIL INVESTIGATION REPORT BY PRASANTA KUMAR GHOSH/SHRIBHARJEE CROSS LANE, BELGHATA,KOLKATA-700010. CERTIFY THAT IT IS SAFE AND STABLE IN ALL RESPECT.

SIGNATURE: *[Signature]*  
 DHAMAN BHATTACHARJEE  
 E.S.E/VII  
 SIG. OF STRUCTURAL ENGINEER

**DECLARATION OF ARCHITECT**  
 I DO HEREBY DECLARE WITH FULL RESPONSIBILITY THAT I HAVE ENGAGED LBA & ESE DURING CONSTRUCTION. I SHALL FOLLOW THE INSTRUCTION OF LBA & ESE AND SHALL BE RESPONSIBLE FOR THE BUILDING AS PER PLAN K.M.C. AUTHORITY WILL NOT BE RESPONSIBLE FOR ANY STRENGTH RELATED DOCUMENT ARE MADE THE A.M.C. AUTHORITY WILL REVOKE THE SANCTION PLAN. THE CONSTRUCTION OF SLUG AIR TAKEN UNDER THE GUIDELINES OF BEARING CAPACITY REPORT OF BUILDING FOUNDATION. PRASANTA KUMAR GHOSH, BELGHATA, KOLKATA.

SIGNATURE OF ARCHITECT:  
 MOSTAK AHAMMED  
 Registered Architect  
 Regn. No.-CA/2909/43/06  
 SIG. OF ARCHITECT: [Stamp]  
 MOSTAK AHAMMED  
 CA/2909/43/06

**DECLARATION OF APPLICANT / OWNER**  
 I DO HEREBY DECLARE WITH FULL RESPONSIBILITY THAT I SHALL ENGAGE LBA & ESE DURING CONSTRUCTION. I SHALL FOLLOW THE INSTRUCTION OF LBA & ESE AND SHALL BE RESPONSIBLE FOR THE BUILDING AS PER PLAN K.M.C. AUTHORITY WILL NOT BE RESPONSIBLE FOR ANY STRENGTH RELATED DOCUMENT ARE MADE THE A.M.C. AUTHORITY WILL REVOKE THE SANCTION PLAN. THE CONSTRUCTION OF SLUG AIR TAKEN UNDER THE GUIDELINES OF BEARING CAPACITY REPORT OF BUILDING FOUNDATION. PRASANTA KUMAR GHOSH, BELGHATA, KOLKATA.

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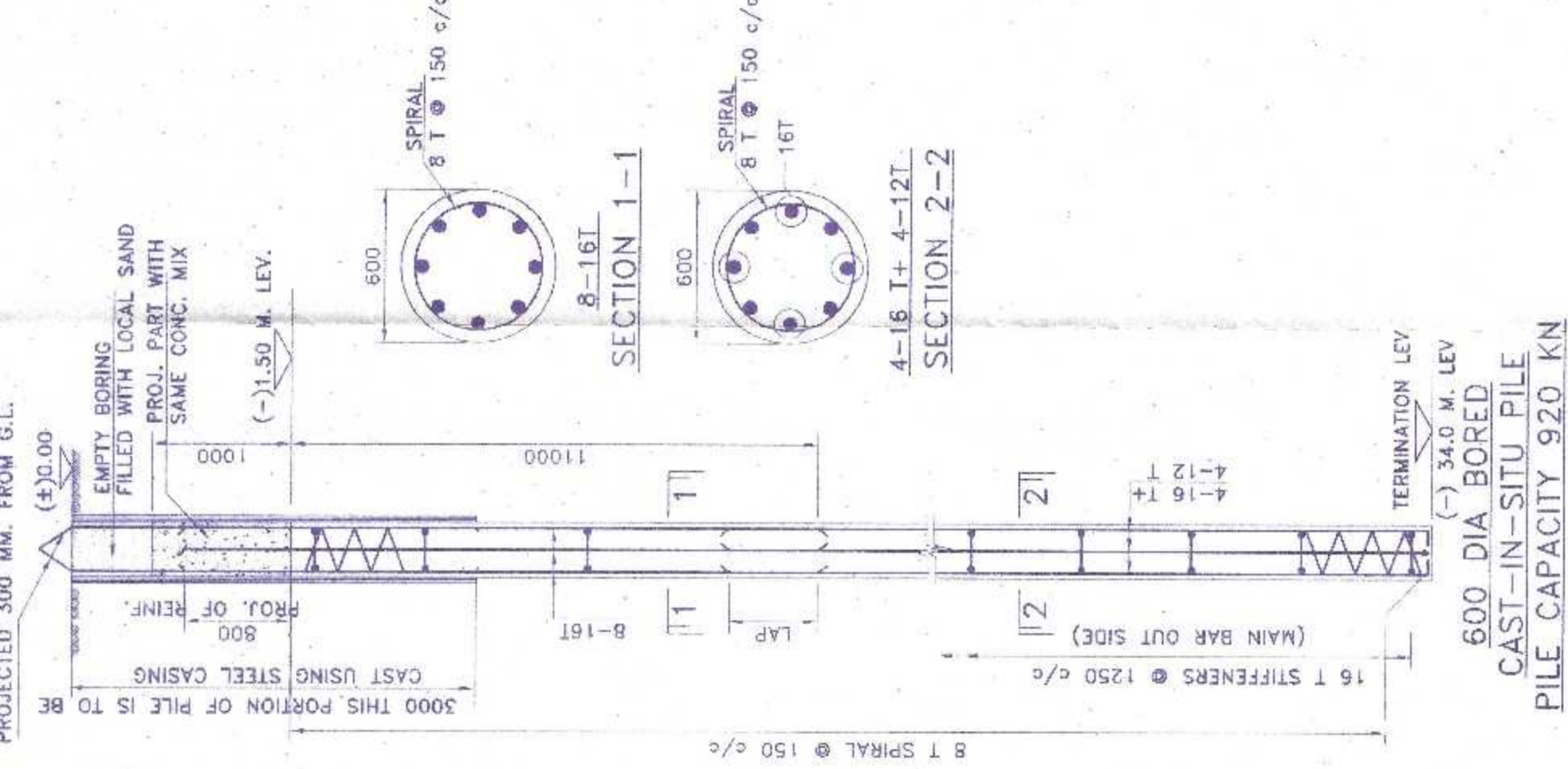
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**ARCHITECT**  
 D.J. CONSULTANTS & ASSOCIATES  
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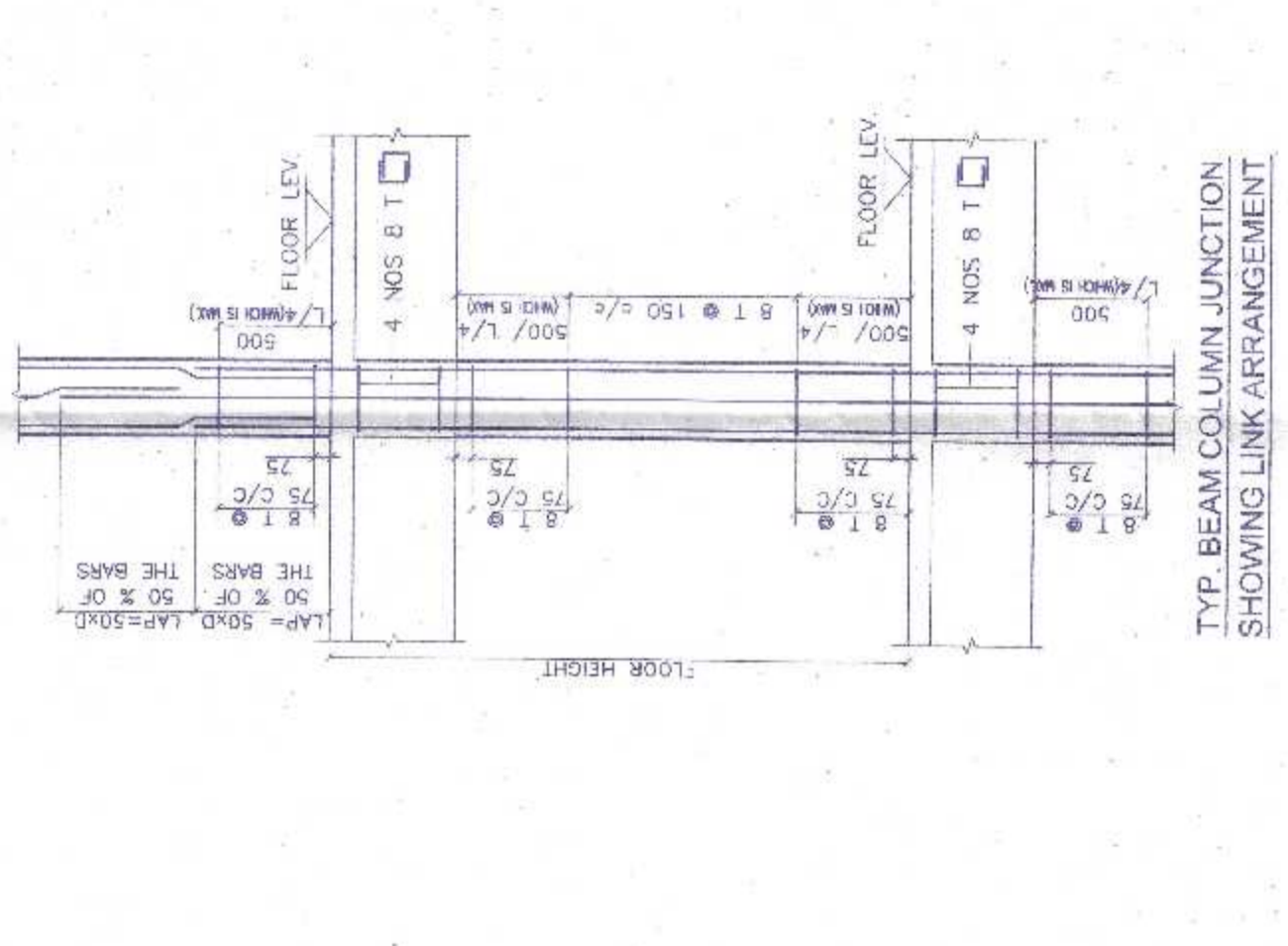
**STRUCTURAL REVIEWER**  
 KSG PROJECTS AND INFRASTRUCTURE CONSULTANTS  
 F-53 BARRA BHARATA ROAD, KOLKATA-700-029  
 DATE: -14.12.2018.  
 DRAWING NO.-DJCONSULTANTS/5-THRODE BEHAR, MULLICK ROAD/SANCTION/51-1 (SHEET - OF 2)



**600 DIA BORED CAST-IN-SITU PILE**  
 PILE CAPACITY 920 KN

**TYPICAL SECTION SHOWING LEVELS OF PILE, CAP & TIE BEAM**

TERMINATION LEV.  
 (-) 24.0 M. LEV



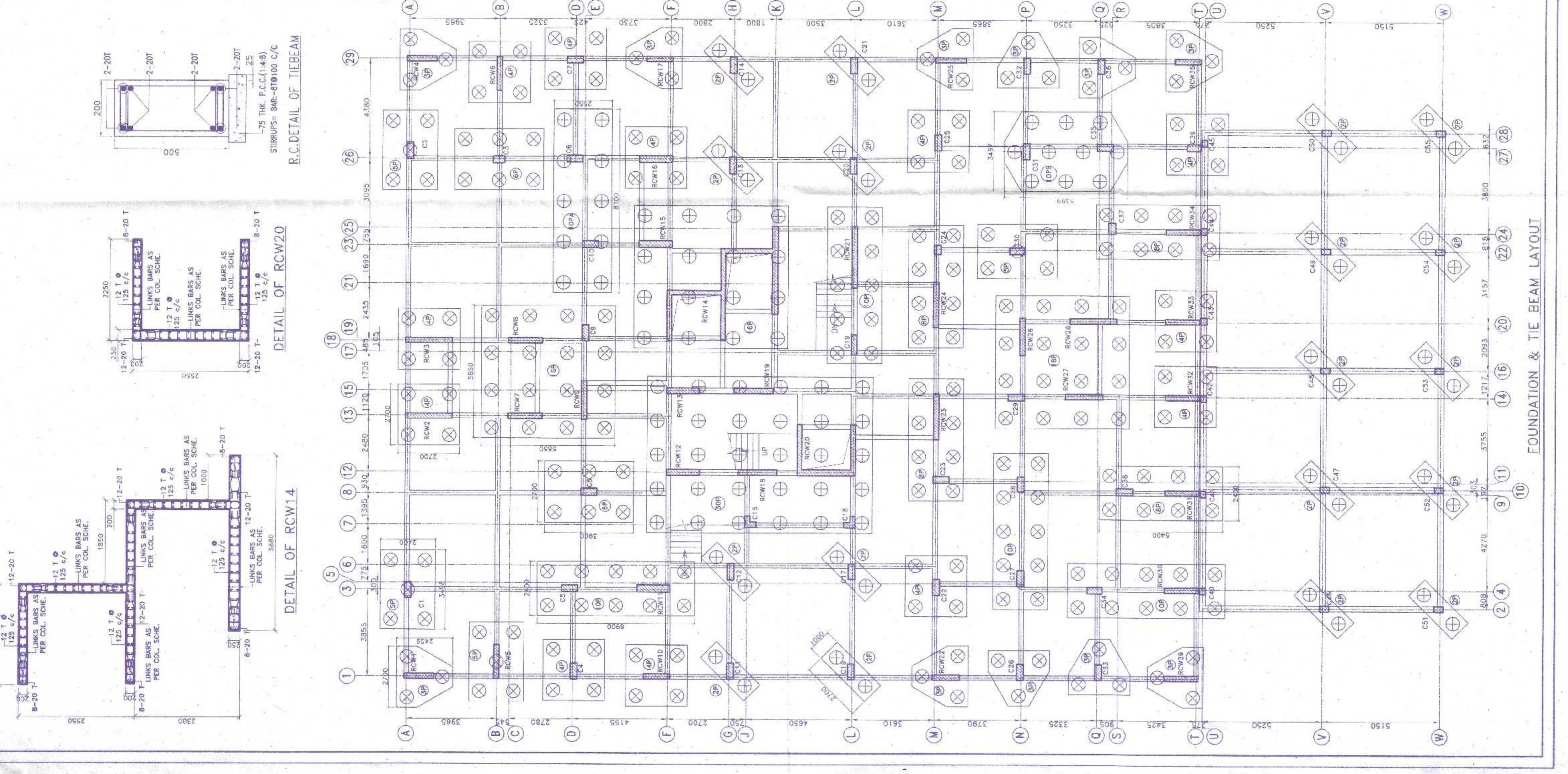
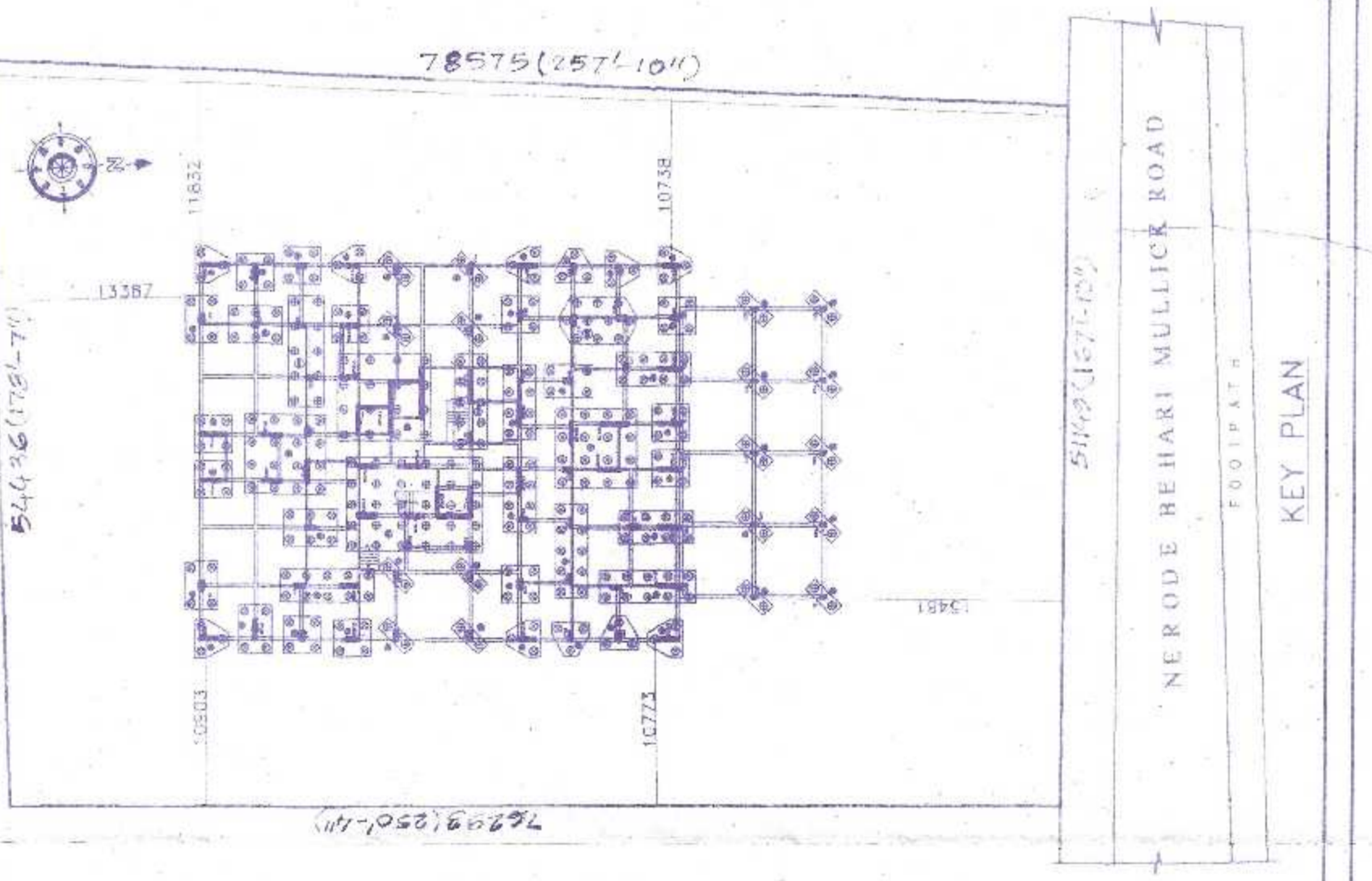
TYP. BEAM COLUMN JUNCTION SHOWING LINK ARRANGEMENT

**COLUMN / WALL SCHEDULE**

COLUMN MKD.	REINFORCEMENT		
	1st. FLOOR TO FDN.	3rd. FLOOR TO 7th. FLOOR LEV.	11th. FLOOR TO 15th. FLOOR LEV.
C1,C2,C3,C4,C5,C6,C7,C8	12-25 T	4-25 T4+20 T	8-20 T4+16 T
C9,C10,C11,C12,C13,C14	12-25 T	4-25 T4+20 T	8-20 T4+16 T
C15,C16,C17,C18,C19	12-25 T	4-25 T4+20 T	8-20 T4+16 T
C20	12-25 T	4-25 T4+20 T	8-20 T4+16 T
C21,C22,C23,C24,C25,C26	12-25 T	4-25 T4+20 T	8-20 T4+16 T
C27,C28,C29,C30,C31,C32,C33,C34,C35	12-25 T	4-25 T4+20 T	8-20 T4+16 T
C36,C37,C38,C39,C40,C41,C42,C43,C44,C45	12-25 T	4-25 T4+20 T	8-20 T4+16 T
C46,C47,C48,C49,C50,C51,C52,C53,C54,C55	12-25 T	4-25 T4+20 T	8-20 T4+16 T
C56,C57,C58,C59,C60,C61,C62,C63,C64,C65,C66	12-25 T	4-25 T4+20 T	8-20 T4+16 T
C67,C68,C69,C70,C71,C72,C73,C74,C75,C76,C77,C78,C79,C80	12-25 T	4-25 T4+20 T	8-20 T4+16 T
C81,C82,C83,C84,C85,C86,C87,C88,C89,C90,C91,C92,C93,C94,C95,C96,C97,C98,C99,C100	12-25 T	4-25 T4+20 T	8-20 T4+16 T
W1,W2,W3,W4,W5,W6,W7,W8,W9,W10,W11,W12,W13,W14,W15,W16,W17,W18,W19,W20	12-25 T	4-25 T4+20 T	8-20 T4+16 T
W21,W22,W23,W24,W25,W26,W27,W28,W29,W30,W31,W32,W33,W34,W35,W36,W37,W38,W39,W40	12-25 T	4-25 T4+20 T	8-20 T4+16 T

**SCHEDULE OF PILE CAP**

PILE CAP MKD	LONGER BAR			SHORTER BAR			BURSTING BAR
	BOTTOM BAR	TOP BAR	STIRRUPS	BOTTOM BAR	TOP BAR	STIRRUPS	
2P	7-20 T	4-12 T	4L-10 T @ 150 C/C	7-20 T	4-12 T	4L-10 T @ 150 C/C	5-2 T
3P	7-20 T	4-12 T	4L-10 T @ 150 C/C	7-20 T	4-12 T	4L-10 T @ 150 C/C	8-2 T
4P	7-20 T	4-12 T	4L-10 T @ 150 C/C	7-20 T	4-12 T	4L-10 T @ 150 C/C	10-12 T
5P	7-20 T	4-12 T	4L-10 T @ 150 C/C	7-20 T	4-12 T	4L-10 T @ 150 C/C	10-12 T
6P	7-20 T	4-12 T	4L-10 T @ 150 C/C	7-20 T	4-12 T	4L-10 T @ 150 C/C	10-12 T
8P	7-20 T	4-12 T	4L-10 T @ 150 C/C	7-20 T	4-12 T	4L-10 T @ 150 C/C	10-12 T
10P	7-20 T	4-12 T	4L-10 T @ 150 C/C	7-20 T	4-12 T	4L-10 T @ 150 C/C	10-12 T
10PA	7-20 T	4-12 T	4L-10 T @ 150 C/C	7-20 T	4-12 T	4L-10 T @ 150 C/C	10-12 T
10PB	7-20 T	4-12 T	4L-10 T @ 150 C/C	7-20 T	4-12 T	4L-10 T @ 150 C/C	10-12 T
16P	7-20 T	4-12 T	4L-10 T @ 150 C/C	7-20 T	4-12 T	4L-10 T @ 150 C/C	10-12 T
30P	7-20 T	4-12 T	4L-10 T @ 150 C/C	7-20 T	4-12 T	4L-10 T @ 150 C/C	10-12 T



FOUNDATION & TIE BEAM LAYOUT