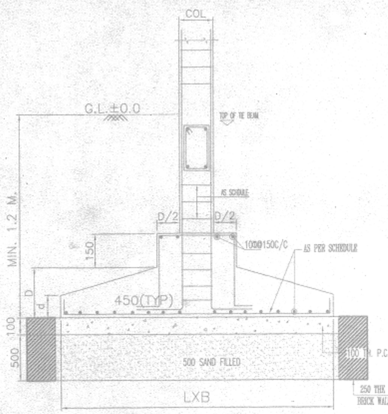
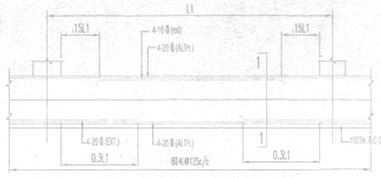
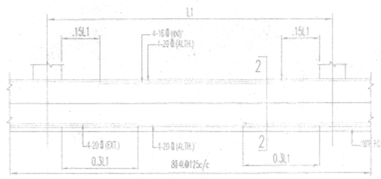


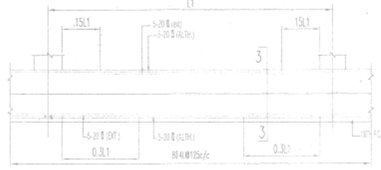
TYPICAL DET. OF FOOTING



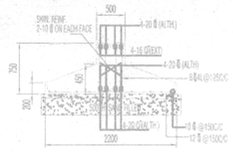
DETAIL OF FOUNDATION BEAM(F-1)
500X750



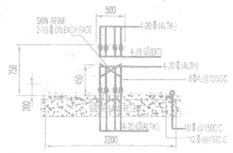
DETAIL OF FOUNDATION BEAM(F-2)
500X750



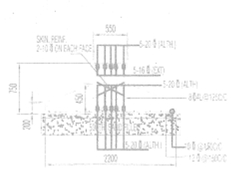
DETAIL OF FOUNDATION BEAM(F-3)
500X750



SECTION A



SECTION B



SECTION C

SCHEDULE OF COLUMN :- (M20 AND FE 500)

GR. OF CONCRETE.	M-20		M-20	
COLUMN NOS.	SIZE (MMxMM)	FOUNDATION TO 2ND FL.	2ND FL. TO ROOF.	STIRRUPS
C1	250x450	4-16Ø(4-12Ø)	8-12Ø	8mm Ø@150mm C/C spaced @ 100mm c/c near junctions.
C2	250x450	8-16Ø	4-16Ø(4-12Ø)	
C3	250x450	8-16Ø	4-16Ø(4-12Ø)	
C4	250x450	4-16Ø(4-12Ø)	8-12Ø	
C5	250x450	4-16Ø(4-12Ø)	8-12Ø	
C6	250x450	8-16Ø	4-16Ø(4-12Ø)	
C7	250x450	8-16Ø	4-16Ø(4-12Ø)	
C8	250x450	8-16Ø	8-16Ø	
C9	250x450	4-20Ø(4-16Ø)	8-16Ø	
C10	250x500	6-20Ø(4-16Ø)	10-16Ø	
C11	250x450	8-20Ø	6-20Ø(4-16Ø)	
C12	250x450	10-20Ø	6-20Ø(4-16Ø)	
C13	250x450	8-16Ø	4-16Ø(4-12Ø)	
C14	250x450	8-16Ø	4-16Ø(4-12Ø)	
C15	250x450	4-20Ø(4-16Ø)	8-16Ø	
C16	250x550	10-20Ø	6-20Ø(4-16Ø)	
C17	250x500	10-20Ø	6-20Ø(4-16Ø)	
C18	250x500	10-20Ø	6-20Ø(4-16Ø)	
C19	250x450	4-20Ø(4-16Ø)	8-16Ø	
C20	250x450	8-20Ø	4-20Ø(4-16Ø)	
C21	250x450	8-16Ø	4-16Ø(4-12Ø)	
C22	250x450	4-16Ø(4-12Ø)	8-12Ø	
C23	250x450	8-20Ø	4-20Ø(4-16Ø)	
C24	250x500	10-20Ø	4-20Ø(4-16Ø)	
C25	250x450	4-16Ø(4-12Ø)	8-12Ø	
C26	250x575	8-16Ø(4-12Ø)	6-16Ø(4-12Ø)	
C27	250x500	10-20Ø	6-20Ø(4-16Ø)	
C28	250x500	10-20Ø	6-20Ø(4-16Ø)	
C29	250x450	4-16Ø(4-12Ø)	8-12Ø	
C30	250x450	4-16Ø(4-12Ø)	8-12Ø	
C31	250x450	4-16Ø(4-12Ø)	8-12Ø	

SCHEDULE OF FOUNDATION :- (M20 AND FE 500)

MKD.	SIZE (mxm)		DEPTH OF BASE SLAB		REINFORCEMENT	
	W	L	D	d	SHORTER(f)	LONGER(e)
F1	2600	2600	450	200	12Ø@150 C/C BOTH WAYS OF BOTTOM.	
F2	2800	2600	500	200	12Ø@125 C/C BOTH WAYS OF BOTTOM.	
F3	2800	2800	500	200	12Ø@125 C/C BOTH WAYS OF BOTTOM.	
F4	3000	3000	500	200	12Ø@125 C/C BOTH WAYS OF BOTTOM.	
COMB-1	AS SHOWN		450	200	12Ø@150 C/C	10Ø@150 C/C
COMB-2	AS SHOWN		450	200	12Ø@150 C/C	10Ø@150 C/C
COMB-3	AS SHOWN		450	200	12Ø@150 C/C	10Ø@150 C/C
COMB-4	AS SHOWN		450	200	12Ø@150 C/C	10Ø@150 C/C
COMB-6	AS SHOWN		450	200	12Ø@150 C/C	10Ø@150 C/C
COMB-7	AS SHOWN		450	200	12Ø@150 C/C	10Ø@150 C/C

SCHEDULE OF SLAB (S1)

SLAB THICKNESS AS MENTIONED :- 115 MM (ALONG SHORTER DIRECTION) (M20 AND FE 500)

SUPPORT	8mmØ@ 175mm c/c at top of support & extended upto L/3 from beam.
SPAN	8mmØ@ 175mm c/c at span & alternately curtained at L/4 from beam

SLAB THICKNESS AS MENTIONED :-115 MM (ALONG LONGER DIRECTION) (M20 AND FE 500)

SUPPORT	8mmØ@ 200mm c/c at top of support & extended upto L/3 from beam.
SPAN	8mmØ@ 200mm c/c at span & alternately curtained at L/4 from beam

SCHEDULE OF SLAB (S2)

SLAB THICKNESS AS MENTIONED :- 125 MM (ALONG SHORTER DIRECTION) (M20 AND FE 500)

SUPPORT	8mmØ@ 150mm c/c at top of support & extended upto L/3 from beam.
SPAN	8mmØ@ 150mm c/c at span & alternately curtained at L/4 from beam

SLAB THICKNESS AS MENTIONED :-125 MM (ALONG LONGER DIRECTION) (M20 AND FE 500)

SUPPORT	8mmØ@ 165mm c/c at top of support & extended upto L/3 from beam.
SPAN	8mmØ@ 165mm c/c at span & alternately curtained at L/4 from beam

SCHEDULE OF 1ST FLOOR TO ROOF (M20 AND FE 500)

BEAM MKD.	SIZE (MMxMM)	TOP ALTH	TOP EXT(AT SUPT.)	BOTT. ALTH	BOTT. EXT(MID SPAN)	STIRRUPS (2 LEGGED) AT SUPPORT	STIRRUPS (2 LEGGED) AT SPAN.
B1	250x450	2-16Ø	2-12Ø	2-16Ø	2-12Ø	10Ø@150C/C	10Ø@175C/C
B2	250x450	2-16Ø	2-16Ø	3-16Ø	2-16Ø	10Ø@150C/C	10Ø@175C/C
B3	250x450	3-16Ø	-	3-16Ø	-	10Ø@150C/C	10Ø@175C/C
B4	250x450	2-20Ø	2-16Ø	3-20Ø	2-16Ø	10Ø@150C/C	10Ø@175C/C
B5	250x450	2-20Ø 3-16Ø	-	3-16Ø	-	10Ø@150C/C	10Ø@175C/C
HLB	250x450	3-16Ø	-	3-16Ø	-	10Ø@150C/C	10Ø@175C/C

SCHEDULE OF TIE BEAM (M20 AND FE 500)

BEAM MKD.	SIZE (MMxMM)	TOP ALTH	TOP EXT(AT SUPT.)	BOTT ALTH	BOTT EXT(MID SPAN)	STIRRUPS (2 LEGGED) AT SUPPORT	STIRRUPS (2 LEGGED) AT SPAN.
TB1	250x350	2-12Ø+1-16Ø	-	2-16+1-12Ø	-	8Ø @125mm C/C	8Ø @150mm C/C
TB2	250x350	3-16Ø	-	3-16Ø	-	8Ø @125mm C/C	8Ø @150mm C/C

NOTES :-

1. ALL DIMENSIONS ARE IN MM
2. ALL CONCRETE SHOULD BE OF GRADE M25 UNLESS SPECIFIED
3. COVER TO REINFORCEMENT
   COLUMN = 40mm , BEAM = 30mm
   SLAB = 15mm , FOUNDATION = 50mm
4. DEPTH OF EXCAVATION OF UNDER GROUND SUMP SHOULD BE ABOVE THAT OF FOUNDATION.
5. DO NOT SCALE THE DRAWING , FOLLOW WITH DIMENSION.
6. ALL WALLS ARE AS PER ARCHITECTURAL DRAWINGS
7. LEAN CONCRETE (1:3:6) NOMINAL MIX 75 THK. SHALL BE PROVIDED UNDER FOUNDATION.
8. THE DRAWINGS SHOULD BE STUDIED CAREFULLY AND ALL DIMENSIONS SHOWN HERE SHOULD BE CHECKED AT SITE. CLARIFICATION REGARDING DISCREPANCY IF ANY, SHOULD BE OBTAINED BEFORE COMMENCEMENT OF WORK.
9. SPACER BAR USED SHALL BE OF 20mm. OR DIAMETER OF THE BAR USED N THE JOB WHICH IS LARGER.
10. STEEL TO BE USE SHOULD BE OF Fe-500 GRADE. REINFORCEMENT SHOULD BE WITH COLD TWISTED DEFORMED BARS CONFIRMING TO IS : - 1786 AND HAVE BEEN SHOWN AS ℞ .
11. DEPTH OF EXCAVATION OF UNDER GROUND SUMP/RESERVOIR SHOULD BE ABOVE THE DEPTH OF FOUNDATION OF THE ADJACENT BUILDING / STRUCTURE.
12. LAP LENGTH OF STEEL BAR SHALL BE 50xDIA OF BAR

Enrolment No. 011
R.S.M.

DR. SANTOSH KUMAR CHAKRABORTY
B.E.C. (Civil, Gold Medalist)
P.hD (Foundation Engineering)
I.S.T.E. (G.S.), I.G.S.M.S., (London)
Consulting Geotechnical Engineering
SIGNATURE OF GEO-TECHNICAL ENGINEER

STRUCTURAL CERTIFICATE

THE STRUCTURAL DESING AND DRAWING OF BOTH FOUNDATION AND CONSIDERING ALL POSSIBLE LOADS INCLUDING THE SEISMIC LOAD AS SUPER STRUCTURE OF THE BUILDING HAS BEEN MADE BY ME PER NATIONAL BUILDING CODE OF INDIA AND CERTIFIED THAT IT IS SAFE AND STABLE IN ALL RESPECT.

SUBIR CHANDRA SANYAL
B. C. E., A. M. I., STRUCT. E. (I)
L. B. S. NO. 840, CLASS-I
E. S. E. NO. 007, CLASS-I
RAJPUR-SONARPUR MUNICIPALITY
SIGNATURE OF STRUCTURAL ENGINEER (E.B.A. NO. 007)

DECLARATION OF E.B.A.

I HAVE CERTIFIED ON THE PLAN ITSELF WITH FULL RESPONSIBILITY THAT BUILDING RULES 1990 AS AMENDED FROM TIME TO TIME AND THAT THE SITE CONDITIONS INCLUDING THE ABUTTING ROAD CONFORM WITH THE PLAN AND THAT IT IS A BUILDABLE SITE AND NOT A TANK OR A FILLED UP LAND.

SARBANI MAJUMDAR
COA. REG. NO. 92/15458
EB.A NO- 655
UNDER RAJPUR SONARPUR MUNICIPALITY
SIGNATURE OF E.B.A

Bijoy Mondal
Dipankar Nskkar
As a Constituted Attorney for Nitai Chandra Mondal & Others
SIGNATURE OF OWNER'S

SARBANI MAJUMDAR
COA. REG. NO. 92/15458
EB.A NO- 655
UNDER RAJPUR SONARPUR MUNICIPALITY
SIGNATURE OF E.B.A

PROJECT

STRUCTURAL DRAWING FOR A REVISED PLAN OF G + IV AND G+VII STORIED RESIDENTIAL BUILDING AT HOLDING NO.- 1601,KALITALA ROAD, WARD NO.- 29,R. S. DAG NO.- 879,880,883&937, R.S. KHATIAN NO -597&596,MOUZA- BARHANS FARTABAD ,J. L. NO - 47, P.S. - SONARPUR, DIST - 24PGS (S) UNDER RAJPUR - SONARPUR MUNICIPALITY. VIDE SANCTION PLAN NO. 297/CB/29/ 34 , DATED . 14 / 05 / 2015

OWNER'S NAME :- NITAI CHANDRA MONDAL & OTHERS

	DRAWN :- Soniqa	SCALES-1:100,1:50,1:600,1:4000
	DESIGNED :-	DATE :- 12.06.2017
	CHECKED :- Sapprna	JOB NO.
	APPROVED :-	

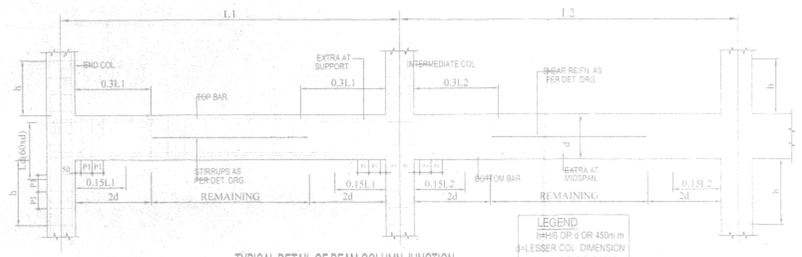
Sanyalson Associates
Consultant Pvt. Ltd.
CONSULTANT PLANNER & STRUCTURAL ENGINEERS
P-157 KANUNGO PARK KOLKATA-83

DWG NO.- 04/05 | BLOCK - C

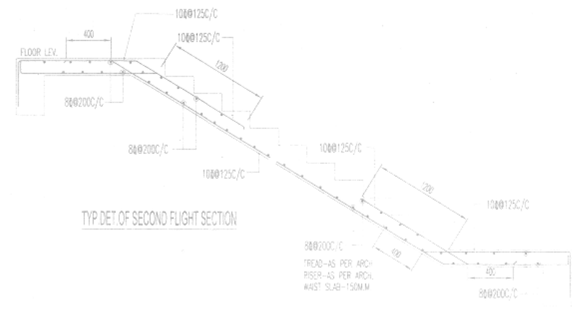
APPROVAL OF S.A.E

OFFICE USE ONLY

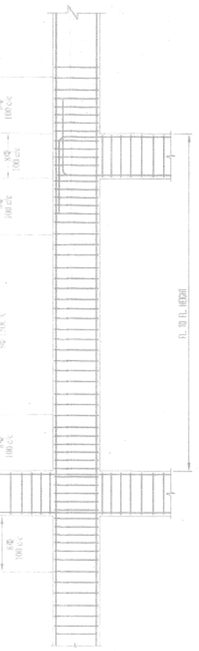
Sanction is hereby accorded to the plan subject to the following conditions:
96/Rev/09/29/43 Dated 06/07/2017
Sig. of Municipal Engineer.



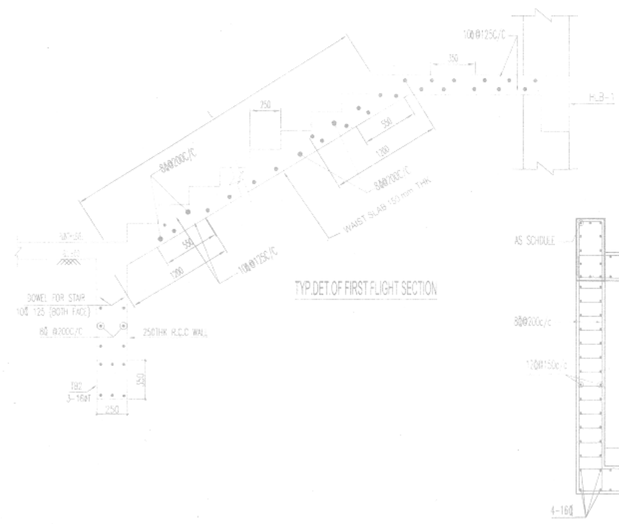
TYPICAL DETAIL OF BEAM COLUMN JUNCTION



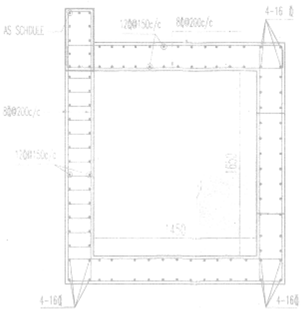
TYP DET OF SECOND FLIGHT SECTION



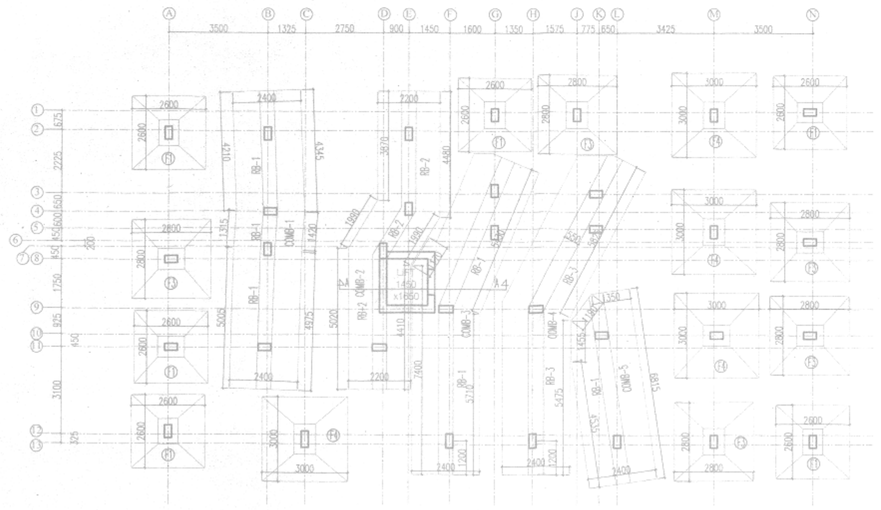
LONG SECTION OF COLUMN SHOWING LINK DETAILS



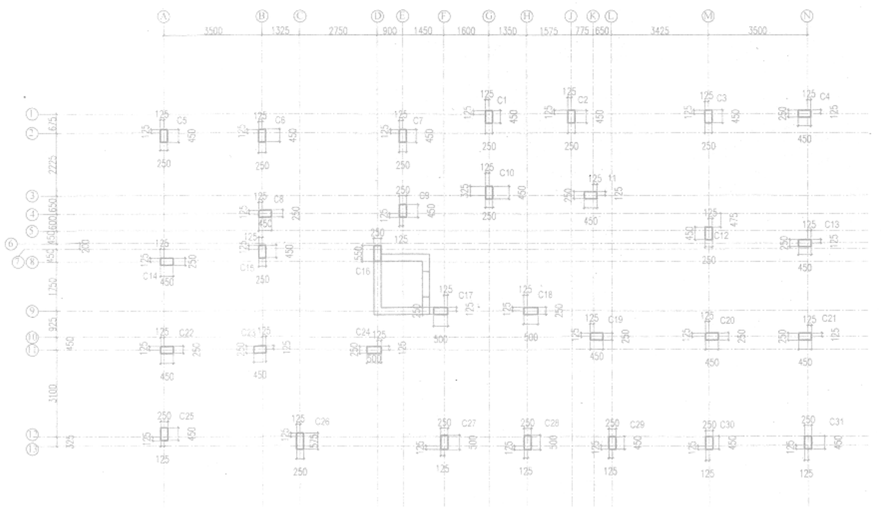
TYP DET OF FIRST FLIGHT SECTION



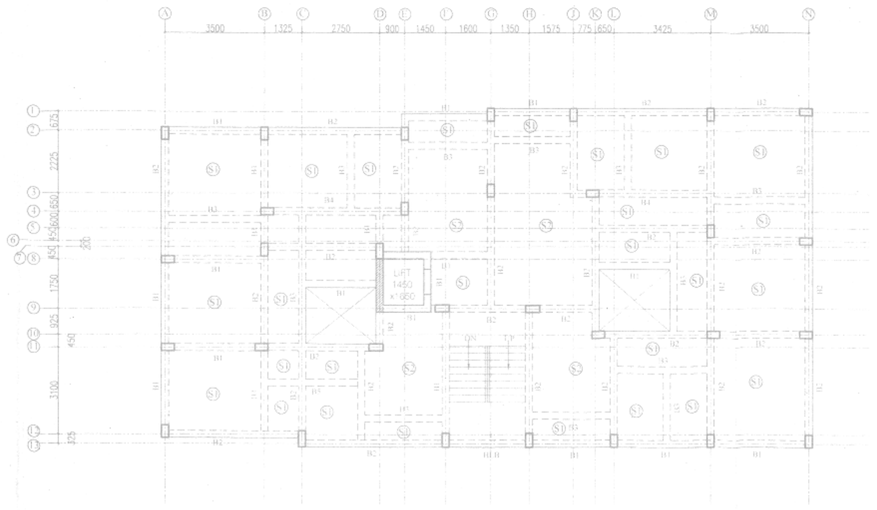
DETAIL OF BLOW PLINTH (LEVEL LIFT)



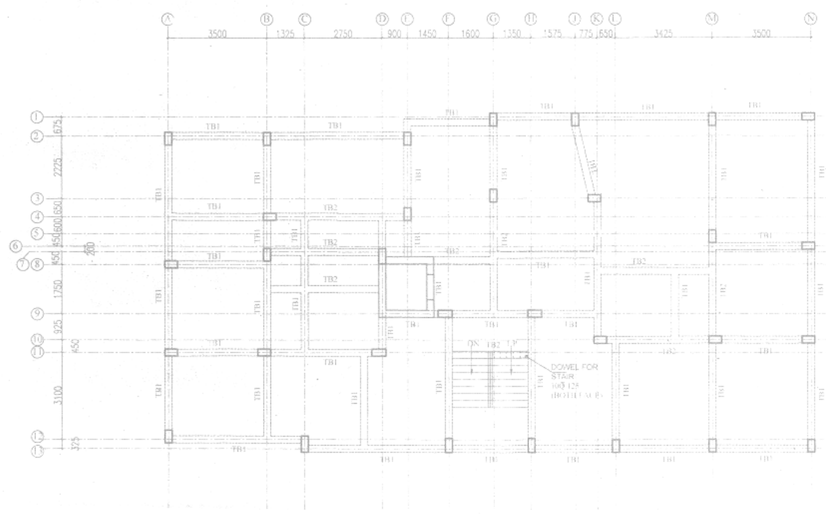
FOUNDATION LAYOUT PLAN



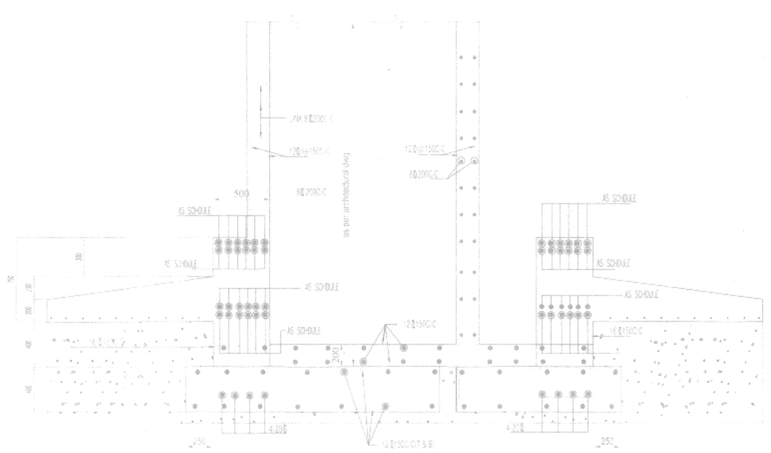
COLUMN LAYOUT PLAN



TYPICAL FLOOR BEAM LAYOUT PLAN



TIE BEAM LAYOUT PLAN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