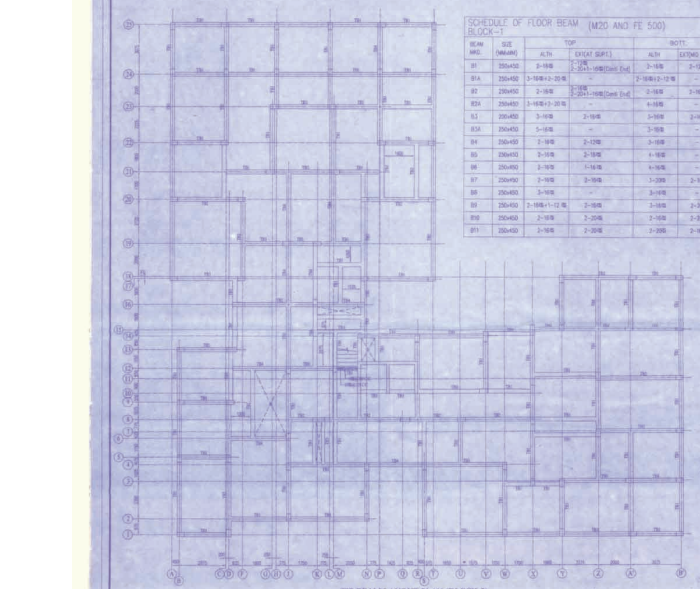


TIE BEAM LAYOUT PLAN (BLOCK-2)
SCALE 1:100

SCHEDULE OF FLOOR BEAM (M20 AND FE 500)
BLOCK-1

BEAM MKS.	SIZE (MM×MM)	TOP		BOTT.	STIRRUPS (2 LEGGED)	
		ALTH	EXTRA AT SUPP.L	ALTH	EXTEND SPANS	AT SPAN
B1	250x450	3-16ϕ	2-16ϕ	3-16ϕ	8ϕ@150mm C/C	8ϕ@175mm C/C
B1A	250x450	3-16ϕ+2-20ϕ	2-16ϕ+1-16ϕ(Cont. End)	2-16ϕ+2-12ϕ	-	8ϕ@175mm C/C
B2	250x450	2-16ϕ	2-16ϕ+1-16ϕ(Cont. End)	2-16ϕ	3-16ϕ	8ϕ@175mm C/C
B2A	250x450	3-16ϕ+3-20ϕ	-	4-16ϕ	-	8ϕ@175mm C/C
B3	250x450	3-16ϕ	2-16ϕ	3-16ϕ	2-16ϕ	8ϕ@175mm C/C
B3A	250x450	5-16ϕ	-	3-16ϕ	-	8ϕ@175mm C/C
B4	250x450	2-16ϕ	2-12ϕ	3-16ϕ	-	8ϕ@175mm C/C
B5	250x450	3-16ϕ	2-16ϕ	4-16ϕ	-	8ϕ@175mm C/C
B6	250x450	3-16ϕ	1-16ϕ	4-16ϕ	-	8ϕ@175mm C/C
B7	250x450	2-16ϕ	2-16ϕ	3-20ϕ	2-16ϕ	8ϕ@175mm C/C
B8	250x450	3-16ϕ	-	3-16ϕ	-	8ϕ@175mm C/C
B9	250x450	2-16ϕ+1-12ϕ	2-16ϕ	3-16ϕ	2-20ϕ	8ϕ@175mm C/C
B10	250x450	2-16ϕ	2-20ϕ	2-16ϕ	2-20ϕ	8ϕ@175mm C/C
B11	250x450	2-16ϕ	2-20ϕ	2-20ϕ	2-16ϕ	8ϕ@175mm C/C

SCHEDULE OF SLAB (S1)

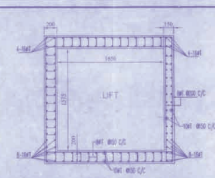
SLAB THICKNESS AS MENTIONED :- 115 MM (ALONG SHORTER DIRECTION)	(M20 AND FE 500)
SUPPORT	8mmϕ @ 150mm c/c at top of support & extended upto L/3 from beam.
SPAN	8mmϕ @ 165mm c/c at span & alternatey curtained at L/4 from beam
SLAB THICKNESS AS MENTIONED :-115 MM (ALONG LONGER DIRECTION)	(M20 AND FE 500)
SUPPORT	8mmϕ @ 150mm c/c at top of support & extended upto L/3 from beam.
SPAN	8mmϕ @ 175mm c/c at span & alternatey curtained at L/4 from beam

SCHEDULE OF SLAB (S2)

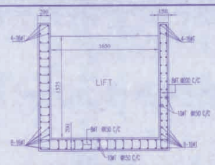
SLAB THICKNESS AS MENTIONED :- 125 MM (ALONG SHORTER DIRECTION)	(M20 AND FE 500)
SUPPORT	8mmϕ @ 125mm c/c at top of support & extended upto L/3 from beam.
SPAN	8mmϕ @ 150mm c/c at span & alternatey curtained at L/4 from beam
SLAB THICKNESS AS MENTIONED :-125 MM (ALONG LONGER DIRECTION)	(M20 AND FE 500)
SUPPORT	8mmϕ @ 165mm c/c at top of support & extended upto L/3 from beam.
SPAN	8mmϕ @ 175mm c/c at span & alternatey curtained at L/4 from beam

SCHEDULE OF SLAB (S3)

SLAB THICKNESS AS MENTIONED :- 135 MM (ALONG SHORTER DIRECTION)	(M20 AND FE 500)
SUPPORT	8mmϕ @ 125mm c/c at top of support & extended upto L/3 from beam.
SPAN	8mmϕ @ 150mm c/c at span & alternatey curtained at L/4 from beam
SLAB THICKNESS AS MENTIONED :-135 MM (ALONG LONGER DIRECTION)	(M20 AND FE 500)
SUPPORT	8mmϕ @ 165mm c/c at top of support & extended upto L/3 from beam.
SPAN	8mmϕ @ 175mm c/c at span & alternatey curtained at L/4 from beam



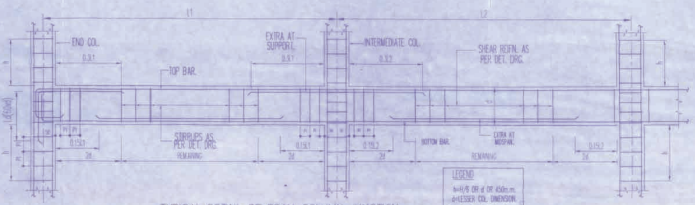
R.C. DETAILS OF LIFT WALL BELOW PINTH LEV.



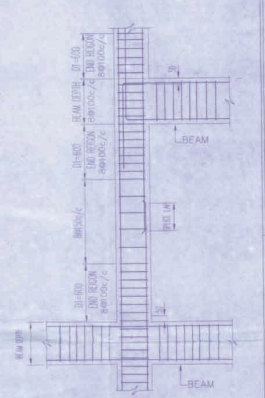
R.C. DETAILS OF LIFT WALL TYPICAL FLOOR PINTH LEV.

SCHEDULE OF THE BEAM (M20 AND FE 500)

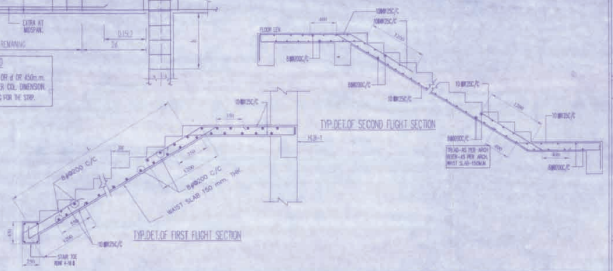
BEAM MKS	SIZE (MM×MM)	TOP		BOTT.	STIRRUPS (2 LEGGED)	
		ALTH	EXTRA AT SUPP.L	ALTH	EXTEND SPANS	AT SPAN
B1	230x450	2-12ϕ	2-16ϕ	2-16ϕ	2-12ϕ	8ϕ@125mm C/C
B2	230x450	2-12ϕ+2-16ϕ	-	3-16ϕ	-	8ϕ@125mm C/C
B3	230x450	2-16ϕ	1-16ϕ	2-16ϕ	2-16ϕ	8ϕ@150mm C/C
B4	230x450	2-16ϕ	2-16ϕ	2-16ϕ	2-12ϕ	8ϕ@125mm C/C
B5	230x450	2-16ϕ	2-16ϕ	2-16ϕ	2-12ϕ	8ϕ@150mm C/C



TYPICAL DETAIL OF BEAM COLUMN JUNCTION



LONG SECTION OF COL. SHOWING LINK DETAILS



NOTES :-

1. ALL DIMENSIONS ARE IN MM
2. ALL CONCRETE SHOULD BE OF GRADE M20 UNLESS SPECIFIED
3. COVER TO REINFORCEMENT
   COLUMN = 40mm , BEAM = 20mm
   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. SPEEDY BAR USED SHALL BE OF 20mm. OR DIAMETER OF THE BAR USED IN THE JOB WHICH IS LARGER.
10. STEEL TO BE USE SHOULD BE OF Fe-500 GRADE. REINFORCEMENT SHOULD BE WITH COLD TWISTED DEFORMED BARS CONFORMING TO IS :- 1786 AND MAKE BEEN SHOWN AS ϕ.
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 50dia OF BAR.

Consultant Architect
REALMARK REALTY PVT. LTD.

SIGNATURE OF OWNER

CERTIFICATE OF STRUCTURAL ENGINEER

CERTIFIED THAT, "THE STRUCTURAL DESIGN & DRAWINGS OF BOTH FOUNDATION & SUPER STRUCTURE OF THE BUILDING HAS BEEN MADE BY ME CONSIDERING ALL POSSIBLE LOADS INCLUDING THE SEISMIC LOAD AS PER THE NATIONAL BUILDING CODE OF INDIA & CERTIFIED THAT IT IS SAFE & STABLE IN ALL RESPECTS".

SUBIR CHANDRA SANYAL
B. E.(Civil), M. I. STRUCT. E. (U)
F. I. E. NO. 846, CLASS-I
F. I. V. NO. 007, CLASS-I
RAJPUR-SONARPUR MUNICIPALITY

SIGNATURE OF STRUCTURAL ENGINEER.

CERTIFICATE OF ARCHITECT

THE E.B.S. HAS CERTIFIED ON THE PLAN ITSELF, WITH FULL RESPONSIBILITY THAT THE BUILDING PLAN HAS BEEN DRAWN UP AS PER PROVISION OF WEST BENGAL MUNICIPAL BUILDING RULES 2007, AS AMENDED FROM TIME TO TIME AND THAT THE SITE CONDITION INCLUDING THE WIDTH OF THE ABUTTING ROAD CONFIRM WITH THE PLAN AND IT IS A BUILD ABLE SITE AND NOT A TANK OR A FILLED UP TANK.

RAJKUMAR AGRAWAL (B.E.A.)
RAJPUR SONARPUR MUNICIPALITY
NO. 451/RJPSONEE/A

SIGNATURE OF ARCHITECT

RUPAK KUMAR BANERJEE
B.E.(C), M.E., M.I.E.
M.I.E., CHARTERED ENGINEER
ENLISTED GEO TECHNICAL ENGINEER (K.M.C.)
C.T.P.E.N.C.M.D., I.M.-4379
M-153870
OTEPA/GEO/2020/0014
RAJPUR SONARPUR/2020/14-15

SIGNATURE OF GEO-TECHNICAL ENGINEER

TITLE

COLUMN & TIE-BEAM LAYOUT PLAN WITH DETAILS. (BLOCK-B)

PROJECT

STRUCTURAL DRAWING FOR A PROPOSED G+IV (15.45 MT. HT.) STORIEDRESIDENTIAL BUILDING AT HOLDING NO.-484, GHOSHAL PARA, WARD NO-23, R.S & L.R DAG NO -213, 353, 354 & 355, R.S KHATIAN NO. - 82 & 387, LR KHATIAN NO. 1619 , 1620 , 1621, 1622, 1623, 1624, 1625, 1626. 1627, 1628, 1629, 1630, JL NO. 77, MOUZA - MANIKPORE, P.S.-SONARPUR, SOUTH 24 PARAGNAS UNDER RAJPUR - SONARPUR MUNICIPALITY.

DATE	JOB. NO.	DEALT	CHECKED	SHEET NO.
30.09.19	STRUC/484	SOMNATH	DPANKAR	7 OF 7

SCALE (1:50, 100, 10, 500, 1000)

ARCHITECT

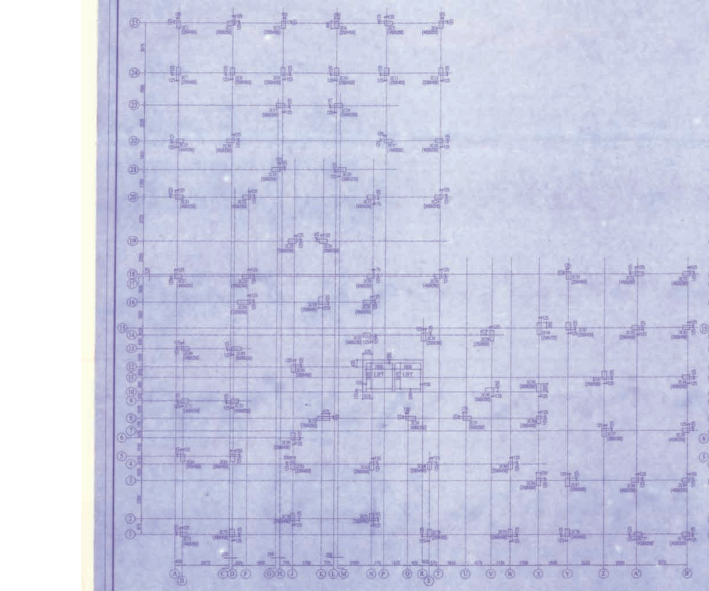
RAJ AGRAWAL & ASSOCIATES
8B, ROYD STREET, KOLKATA - 16

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

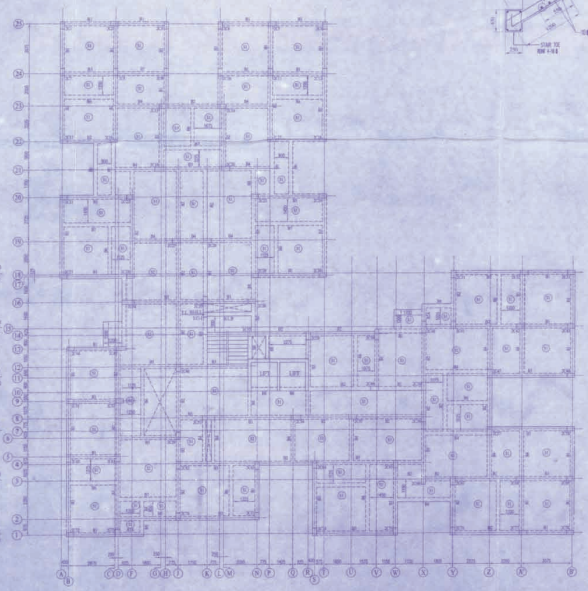
FOR OFFICE USE ONLY

Structural plan as submitted by the Planning Applicant have been kept vide Building plan No. 316/B3/RSN/21 Dated On
for record of the Rajpur Sonarpur Municipality, subject to terms & conditions mentioned in the Sanctioning enclosed plan issued & valid at the time of erection without committing breach of any of the building rules & regulations and stability certificate in the prescribed form enclosed herein should be taken for the safety of the adjoining premises public, privy properties and safety of human life during Construction.

Sig. of Assistant Engineer
Incharge R.M.C.
Rajpur Sonarpur Municipality



COLUMN LAYOUT PLAN (BLOCK-B)
SCALE 1:100



TYPICAL FLOOR BEAM LAYOUT PLAN (BLOCK-B)
SCALE 1:100

SCHEDULE OF COLUMN:- (M20 AND FE 500)
BLOCK-2

COLUMN NOS.	SIZE (MM×MM)	FOUNDATION TO 2ND. FL.	2ND FL. TO 4TH. FL.	4TH. FL. TO ROOF&ABOVE.
2C1	250X450	6-16ϕ+2-12ϕ	6-16ϕ+2-12ϕ	4-16ϕ+4-12ϕ
2C2	250X450	6-16ϕ+2-12ϕ	6-16ϕ+2-12ϕ	6-16ϕ+2-12ϕ
2C3	250X450	6-16ϕ+3-12ϕ	6-16ϕ+2-12ϕ	6-16ϕ+4-12ϕ
2C4	250X450	6-16ϕ+2-12ϕ	6-16ϕ+2-12ϕ	4-16ϕ+4-12ϕ
2C5	250X450	6-16ϕ+2-12ϕ	6-16ϕ+2-12ϕ	6-16ϕ+2-12ϕ
2C6	250X450	6-16ϕ+2-12ϕ	6-16ϕ+2-12ϕ	4-16ϕ+4-12ϕ
2C7	250X450	8-16ϕ	6-16ϕ+2-12ϕ	6-16ϕ+2-12ϕ
2C8	250X450	4-20ϕ+4-16ϕ	4-20ϕ+4-16ϕ	8-16ϕ
2C9	250X450	6-16ϕ+2-12ϕ	6-16ϕ+2-12ϕ	4-16ϕ+4-12ϕ
2C10	250X450	6-16ϕ+2-12ϕ	6-16ϕ+2-12ϕ	6-16ϕ+4-12ϕ
2C11	250X450	4-20ϕ+4-16ϕ	4-20ϕ+4-16ϕ	8-16ϕ
2C12	250X450	8-16ϕ	6-16ϕ+2-12ϕ	6-16ϕ+2-12ϕ
2C13	250X500	10-16ϕ	6-16ϕ+2-12ϕ	4-16ϕ+6-12ϕ
2C14	250X500	10-16ϕ	8-16ϕ+2-12ϕ	4-16ϕ+6-12ϕ
2C15	250X450	8-16ϕ	6-16ϕ+2-12ϕ	6-16ϕ+2-12ϕ
2C16	250X450	4-20ϕ+4-16ϕ	4-20ϕ+4-16ϕ	8-16ϕ
2C17	250X450	4-20ϕ+4-16ϕ	4-20ϕ+4-16ϕ	8-16ϕ
2C18	250X450	8-16ϕ	6-16ϕ+2-12ϕ	6-16ϕ+2-12ϕ
2C19	250X500	4-20ϕ+6-16ϕ	10-16ϕ	8-16ϕ+2-12ϕ
2C20	250X500	4-20ϕ+6-16ϕ	10-16ϕ	8-16ϕ+2-12ϕ
2C21	250X450	8-16ϕ	6-16ϕ+2-12ϕ	6-16ϕ+2-12ϕ
2C22	250X450	4-20ϕ+4-16ϕ	4-20ϕ+4-16ϕ	8-16ϕ
2C23	250X450	4-20ϕ+4-16ϕ	4-20ϕ+4-16ϕ	8-16ϕ
2C24	250X450	8-16ϕ	6-16ϕ+2-12ϕ	8-16ϕ+2-12ϕ
2C25	250X500	4-20ϕ+6-16ϕ	10-16ϕ	8-16ϕ+2-12ϕ
2C26	250X500	4-20ϕ+6-16ϕ	10-16ϕ	8-16ϕ+2-12ϕ
2C27	250X450	8-16ϕ	6-16ϕ+2-12ϕ	8-16ϕ+2-12ϕ
2C28	250X450	4-20ϕ+4-16ϕ	8-16ϕ	8-16ϕ
2C29	250X450	4-20ϕ+4-16ϕ	8-16ϕ	8-16ϕ
2C30	250X450	8-16ϕ	6-16ϕ+2-12ϕ	6-16ϕ+2-12ϕ
2C31	250X450	6-16ϕ+2-12ϕ	6-16ϕ+2-12ϕ	6-16ϕ+4-12ϕ
2C32	250X450	6-16ϕ+2-12ϕ	6-16ϕ+2-12ϕ	6-16ϕ+2-12ϕ
2C33	250X450	6-16ϕ+2-12ϕ	6-16ϕ+2-12ϕ	6-16ϕ+4-12ϕ
2C34	250X725	8-16ϕ+6-12ϕ	8-16ϕ+10-12ϕ	6-16ϕ+10-12ϕ
2C35	250X450	10-20ϕ	6-20ϕ+6-16ϕ	10-16ϕ
2C36	250X450	8-20ϕ	8-20ϕ	4-20ϕ+4-16ϕ
2C37	250X450	8-20ϕ	8-20ϕ	4-20ϕ+4-16ϕ
2C38	250X500	4-20ϕ+6-16ϕ	10-16ϕ	10-16ϕ
2C39	250X850	8-16ϕ+6-12ϕ	8-16ϕ+4-12ϕ	8-16ϕ+4-12ϕ
2C40	250X725	8-16ϕ+6-12ϕ	8-16ϕ+4-12ϕ	6-16ϕ+10-12ϕ

SCHEDULE OF COLUMN:- (M20 AND FE 500)
BLOCK-2

COLUMN NOS.	SIZE (MM×MM)	FOUNDATION TO 2ND. FL.	2ND FL. TO 4TH. FL.	4TH. FL. TO ROOF&ABOVE.
2C41	250X450	4-20ϕ+4-16ϕ	4-20ϕ+4-16ϕ	8-16ϕ
2C42	250X450	4-20ϕ+4-16ϕ	4-20ϕ+4-16ϕ	8-16ϕ
2C43	250X450	6-16ϕ+2-12ϕ	6-16ϕ+4-12ϕ	4-16ϕ+4-12ϕ
2C44	250X450	4-20ϕ+4-16ϕ	4-20ϕ+4-16ϕ	4-16ϕ+4-12ϕ
2C45	250X600	6-16ϕ+6-12ϕ	6-16ϕ+6-12ϕ	6-16ϕ+6-12ϕ
2C46	250X450	4-20ϕ+6-16ϕ	4-20ϕ+6-16ϕ	10-16ϕ
2C47	250X500	6-16ϕ+2-12ϕ	6-16ϕ+2-12ϕ	6-16ϕ+2-12ϕ
2C48	250X450	10-20ϕ	6-20ϕ+2-16ϕ	4-20ϕ+6-16ϕ
2C49	250X500	4-20ϕ+6-16ϕ	10-16ϕ	8-16ϕ+2-12ϕ
2C50	250X500	4-20ϕ+6-16ϕ	10-16ϕ	8-16ϕ+2-12ϕ
2C51	250X450	6-16ϕ+2-12ϕ	6-16ϕ+2-12ϕ	6-16ϕ+2-12ϕ
2C52	250X450	4-20ϕ+4-16ϕ	4-20ϕ+4-16ϕ	8-16ϕ
2C53	250X750	8-16ϕ+6-12ϕ	6-16ϕ+6-12ϕ	8-16ϕ+6-12ϕ
2C54	250X600	8-16ϕ+6-12ϕ	6-16ϕ+4-12ϕ	8-16ϕ+4-12ϕ
2C55	250X300	10-16ϕ	10-16ϕ	8-16ϕ+2-12ϕ
2C56	250X450	8-20ϕ	4-20ϕ+4-16ϕ	8-16ϕ
2C57	250X500	6-16ϕ+2-12ϕ	6-16ϕ+2-12ϕ	8-16ϕ+2-12ϕ
2C58	250X450	8-16ϕ	6-16ϕ+2-12ϕ	6-16ϕ+2-12ϕ
2C59	250X450	4-20ϕ+4-16ϕ	4-20ϕ+4-16ϕ	8-16ϕ
2C60	250X450	8-16ϕ	6-16ϕ+2-12ϕ	6-16ϕ+2-12ϕ
2C61	250X450	4-20ϕ+4-16ϕ	4-20ϕ+4-16ϕ	8-16ϕ
2C62	250X450	4-20ϕ+4-16ϕ	4-20ϕ+4-16ϕ	8-16ϕ
2C63	250X500	6-16ϕ+2-12ϕ	6-16ϕ+2-12ϕ	6-16ϕ+2-12ϕ
2C64	250X450	8-16ϕ	8-16ϕ	8-16ϕ
2C65	250X450	4-20ϕ+4-16ϕ	4-20ϕ+4-16ϕ	8-16ϕ
2C66	250X450	8-16ϕ	8-16ϕ	8-16ϕ
2C67	250X500	6-16ϕ+2-12ϕ	6-16ϕ+2-12ϕ	6-16ϕ+2-12ϕ
2C68	250X450	4-20ϕ+4-16ϕ	4-20ϕ+4-16ϕ	8-16ϕ
2C69	250X450	6-16ϕ+2-12ϕ	6-16ϕ+2-12ϕ	6-16ϕ+2-12ϕ
2C70	250X450	6-16ϕ+2-12ϕ	6-16ϕ+2-12ϕ	6-16ϕ+2-12ϕ
2C71	250X450	6-16ϕ+2-12ϕ	6-16ϕ+2-12ϕ	6-16ϕ+2-12ϕ
2C72	250X450	6-16ϕ+2-12ϕ	6-16ϕ+2-12ϕ	6-16ϕ+4-12ϕ
2C73	300X450	6-16ϕ+2-12ϕ	6-16ϕ+2-12ϕ	6-16ϕ+4-12ϕ
2C74	250X450	6-16ϕ+2-12ϕ	6-16ϕ+2-12ϕ	6-16ϕ+2-12ϕ
2C75	250X450	6-16ϕ+2-12ϕ	6-16ϕ+2-12ϕ	6-16ϕ+2-12ϕ
2C76	250X450	6-16ϕ+2-12ϕ	6-16ϕ+2-12ϕ	6-16ϕ+2-12ϕ
2C77	250X450	6-16ϕ+2-12ϕ	6-16ϕ+2-12ϕ	6-16ϕ+2-12ϕ
2C78	250X450	6-16ϕ+2-12ϕ	6-16ϕ+2-12ϕ	4-16ϕ+4-12ϕ
SC-1	250X300	6-12ϕ	(FLOOR LEV. TO HALF LANDING)	