REMT

RFIT

REQUEST FOR INSPECTION AND TESTING

PROJECT :	CADANGAN PEMBINAAN BALAI BOMBA DAN PENYELAMAT BEAUFORT SABAH	PROJECT NO :	BOMBA-BEAUFORT
TO :	Noor Izwan Arkitek -NIA	REF NO :	RFIT/BOMBA/ARC/2021/ ML-25
ATTN. :	COW-Syaril Bin Mohd Arifin		

The following works / tests are ready for inspection / will be conducted at 9.00 am (time) on 3/8/21 (date).

DESCRIPTION OF WORKS

Location : Menara Latihan (3A floor)

Nature of Work : Inspection for Door Frame

Sketches (if required) : Refer to attachment

(Note : Where required, include details of materials, labour and plant / equipment to be used).

Submitted by		Received by COW / RE	
Signature :		Signature :	SYAHRIL MOHD ARIFFIN INSPECTOR OF WORK COWAM PPM 315 BEM W12782
Name :	Bonaventure	Name :	
Time/Date :	2/8/2021	Time/Date :	02.08.2021

REMT UTAMA SDN BHD 409864-W

c.c. 1 3

2 4

INSPECTION/TEST RESPONSE

☑	Inspection / Test acceptable / passed. Work are allowed to proceed.	Remarks /Remedial Works:
☐	Remedial works listed on the right to be completed but no further inspection required.	
☐	Remedial works listed on the right to be completed and re- inspection required on _____ (date) at _____ (time)	

Signature (COW/RE)

Date

SYAHRIL MOHD ARIFFIN INSPECTOR OF WORK COWAM PPM 315 BEM W12782 03.08.2021

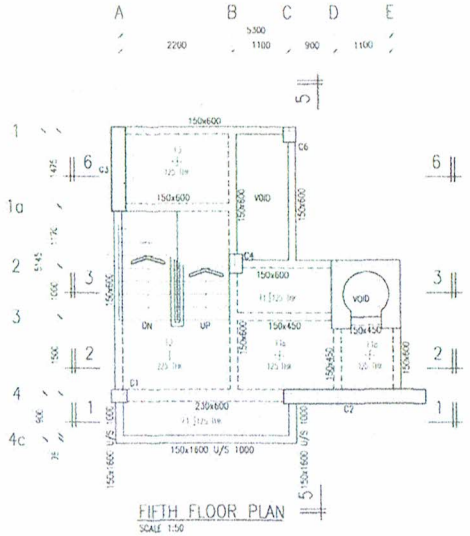
RE-INSPECTION/RE-TEST RESPONSE :

☐	Re-inspection /Re- test acceptable / passed. Work are allowed to proceed.	Remarks /Remedial Works:
☐	Further Remedial works listed on the right to be completed but no further inspection required.	

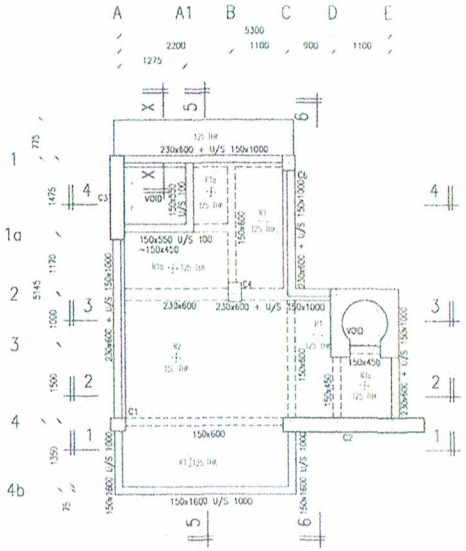
Signature : (COW/RE)

Date

Ref : RFT/Bumbalarc/2021/ML-25



FIFTH FLOOR PLAN
SCALE 1:50



ROOF PLAN
SCALE 1:50

PILING NOTES
FOR 150mm SQ. PILE

1. The pile shall be reinforced concrete pile (Class M) or its Equal equivalent designed to withstand axial load in BS 8004 1986 and CP4 to with a safe load more than 50kN, 25mm dia of 4G N/mm²
2. The pile shall be 150mm x 150mm reinforced concrete pile with a design working load of 75 tonnes
3. Pile load test shall be carried out to 50 tonnes (200% of recommended working load) and in accordance to BS 8004: 1986.
4. Foundation works and works below formed floor level to be carried out in accordance to JKR Standard Specification for Building Works 2014.
5. The Factor of Safety (F. O. S.) for end bearing shall be more than 3. The pile shall be design as fully end bearing.
6. The pile driven should not deviate more than 75mm from their designed positions in any direction. Both ends of the pile.
7. The reinforcement cage for the pile shall be not more than 12m
8. The cube crushed pile strength is 4 weeks in accordance to Mode/code No. 20 in the soil investigation report.
9. The method of piling shall be using Hammer driven
10. Any of preliminary pile shall be installed before commencement of the main piling work for the purpose of establishing the driving criteria for various ultimate working piles and for confirming the adequacy of the design assumptions and bearing capacity. This pile shall be treated as working pile unless otherwise directed by the Engineer.
11. The total number of pile test is as shown in the following

No.	Pile Test	Number (No.)
1)	Maintained Load Test (ML)	1
2)	Pile Driving Analyzer Test (PDA)	1

GENERAL NOTES

(a) All building works to be carried out in accordance to the latest Standard Specification for Building Works 2014

(b) All structural steel works to be carried out in accordance to JKR Standard Specification for Structural Steel Works.

(c) CONCRETE
(i) Concrete shall be commercially ready mixed concrete to Grade 30 characteristic strength at 28 days in accordance to BS 5328 Part 4.
(ii) Slump test shall be carried out in accordance to BS 1881 Part 102.
(iii) Slabs, beams and columns shall be placed monolithically unless otherwise stated.
(iv) Square nosing at corners shall be provided at all exposed horizontal and vertical edges unless otherwise stated.
(v) During construction, cube shall be taken as per the specification by a CIDB Grade 5 architect and certificate shall be issued shall be given to the architect for approval before RC works.
(vi) Fine and coarse aggregates shall comply with BS 882 and BS 1201 respectively unless otherwise stated. Water shall be clean and free from oil, acid, alkali, organic matter or other deleterious substances.
(vii) All exposed edges to be chamfered 25mm x 25mm unless otherwise indicated.
(viii) The maximum size of the aggregate shall be determined during trial mixes and shall be approved by the engineer.
(ix) All concrete shall be compacted using mechanical vibrators in accordance with the specification for concrete works.
(x) The construction joint area for reinforcement shall be as follows:
- 50mm for works below ground
- 25mm for columns, beams and slabs above ground

(xi) Minimum cover for reinforcement shall be as follows:

Structure	Cover
Foundation	75mm
Beam	40mm
Slab	25mm
Column	40mm

(xii) Curing of concrete shall not exceed 7 days.
Formwork shall be removed by a trained person in accordance to the specification.

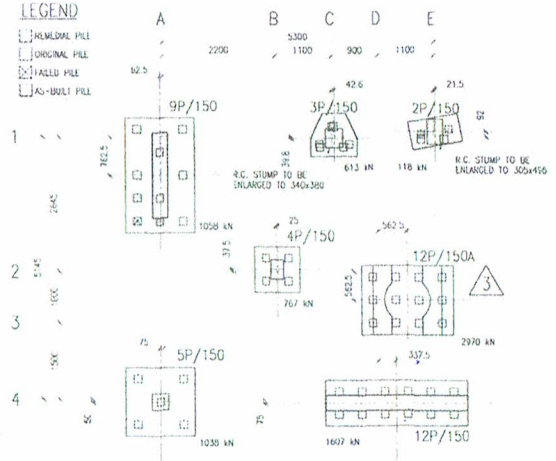
(d) REINFORCING STEEL
(i) Type of reinforcement shall be as follows:
- Mild steel bar - Hot rolled to BS 4449 1997 with characteristic strength 250 N/mm²
- High yield Type 2 deformed bars - Characteristic strength 460 N/mm²

(ii) Steel bars - BS 4483
(iii) Bending of reinforcement shall be in accordance with BS 4466
(iv) Laps other than those shown on the drawings shall be made only with the approval of the engineer. The approval may include position and length of laps to be made.
(v) All lap length shall comply with the requirements of BS of to Structure shall be staggered wherever possible.
(vi) Minimum lap length for Type 2 deformed bars shall be as follows:

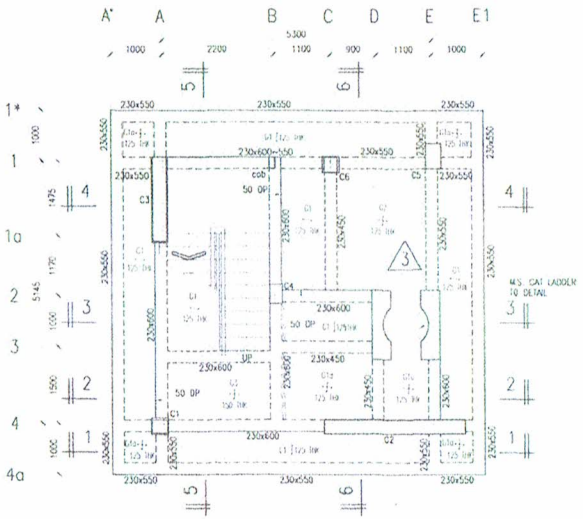
Diameter	Lap Length	Tension Anchorage
12	400	480
16	640	640
20	640	640
25	800	800
32	1280	1280
40	1600	1600

(vii) Cranking of reinforcement shall not exceed 1 in 12.
Bends for links are to be enclosed by a radius of 3 x diameter of bar. Links shall be bent round bars of not less than the diameter of links or 3 x diameter of bar, whichever is greater.

SYAHRIL MOHD ARIFFIN
INSPECTOR OF WORK
COWAM PPM 315
BEM W12782

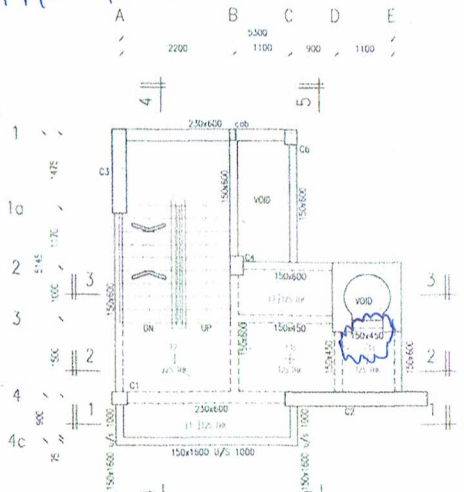


PILING PLAN
SCALE 1:50



GROUND FLOOR PLAN
SCALE 1:50

3rd Floor for Frame



FIRST TO FORTH FLOOR PLANS
SCALE 1:50

KEMENTERIAN PERUMAHAN DAN KERAJAAN TEMPATAN

JABATAN BOMBA DAN PENYELAMAT MALAYSIA

KEMENTERIAN PERUMAHAN DAN KERAJAAN TEMPATAN

CADANGAN PEMBINAAN PROJEK BALAI BOMBA DAN PENYELAMAT BEAUFORT BERSERTA KEMUDAHAN TAMBAHAN MENARA LATIHAN, SETOR LOGISTIK, KOLAM AIR, PADANG KAWAD, RUMAH SAMPAH DAN PENGAWANG ELEKTRIK SESB DI ATAS LOT NO 175331227, JALAN KOMPLEKS SUKAN, DAERAH BEAUFORT, 89800 PEKAN BEAUFORT, SABAH UNTUK TETUAN JABATAN BOMBA DAN PENYELAMAT MALAYSIA

AKTIF FA KONSULT SDN BHD

ENGINEER'S SIGNATURE

MENARA LATIHAN
FOUNDATION, GROUND FLOOR, FIRST TO FORTH FLOOR, FIFTH FLOOR AND ROOF PLAN

Project	Cadangan Pembinaan Projek Balai Bomba Beaufort, Sabah
Block / Room	Menara Latihan tingkat 3
Inspection by (Designation)	Syahril Bin Mohd Ariffin (IOW)

ACCEPTANCE STATUS : A=ACCEPTED NA=NOT APPLICABLE MI=MINOR DEFECT MA=MAJOR DEFECT

	ARCHITECTURE SCOPE	A	NA	DEFECTS		REMARKS
				MI	MA	
J	**CEILING**					
1	Surface evenness					
2	Provision of fan hooks					
3	Lighting points					
4	Ceiling boards					
5	Access opening					
6	*Others :*					
K	**DOOR PANELS & FRAMES INSTALLATION**					
1	Detailing & Shop dwg.	✓				
2	Verticality & horizontality	✓				
3	Opening & Dimension	✓				
4	Perfection of material					
5	Swing direction	✓				
6	Locksets with good fit					
7	Hinges & Accessories					
8	Ease of functionality					
9	Gap with finished floor	✓				
10	*Others :*					
L	**WINDOW PANELS & FRAMES INSTALLATION**					
1	Detailing & Shop dwg.					
2	Verticality & horizontality					
3	Opening & Dimension					
4	Perfection of material					
5	Swing direction					
6	Locksets with good fit					
7	Hinges & Accessories					
8	Ease of functionality					
9	*Others :*					

SYAHRIL MOHD ARIFFIN
INSPECTOR OF WORK
COWAM PPM 315
BEM W12782