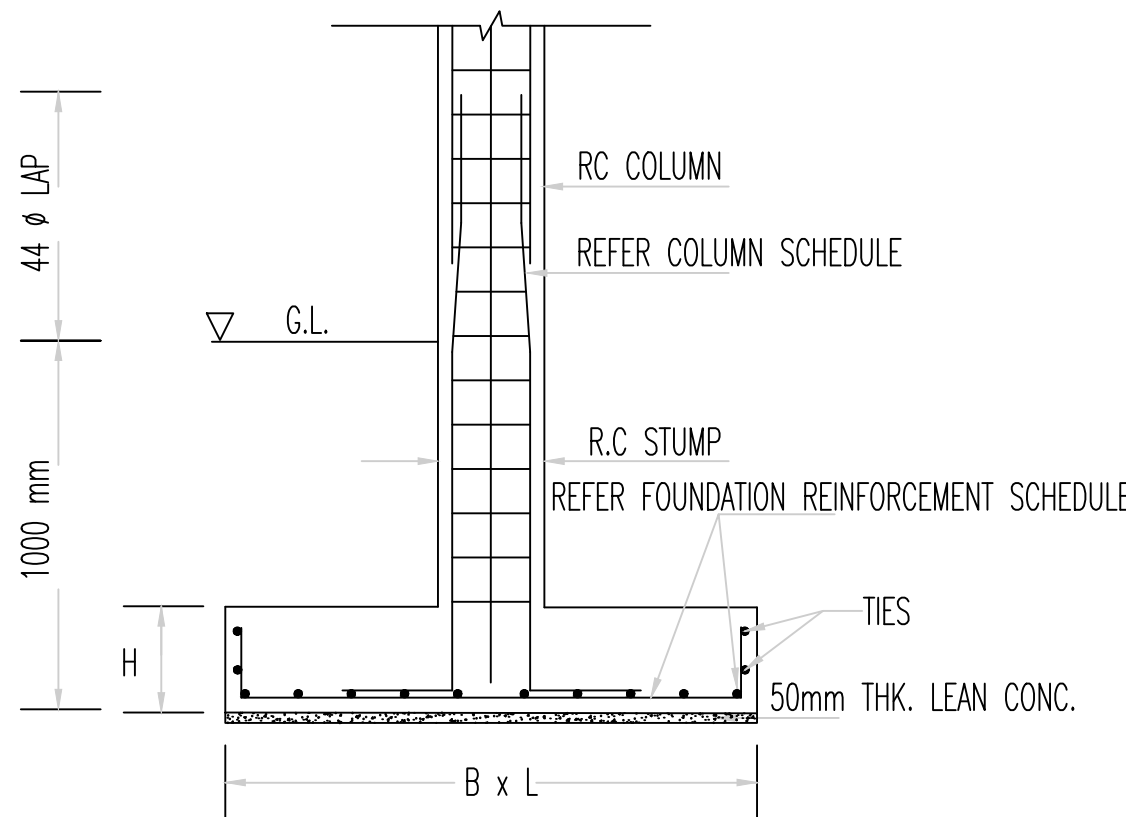


PAD FOOTING MARK	PAD FOOTING DIMENSION			REINFORCEMENT		
	B,mm	L,mm	H,mm	XDirBar	YDirBar	TIES
P1	1000	1000	250	Y12-125	Y12-125	Y6-100
P2	1200	1200	250	Y12-150	Y12-150	Y6-100
P4	1400	1400	250	Y12-125	Y12-125	Y6-100
P5	1600	1600	250	Y12-125	Y12-125	Y6-100
P6	1800	1800	300	Y12-100	Y12-100	Y6-100
P7	1950	1950	300	Y12-100	Y12-100	Y6-100
P8	2250	2250	350	Y12-100	Y12-100	Y6-100
P9	as show	as show	250	Y12-125	Y12-125	Y6-100
P10	as show	as show	350	Y12-100	Y12-100	Y6-100
P11	as show	as show	250	Y12-125	Y12-125	Y6-100
P12	as show	as show	250	Y12-125	Y12-125	Y6-100
P13	as show	as show	250	Y12-125	Y12-125	Y6-100
P14	as show	as show	250	Y12-125	Y12-125	Y6-100

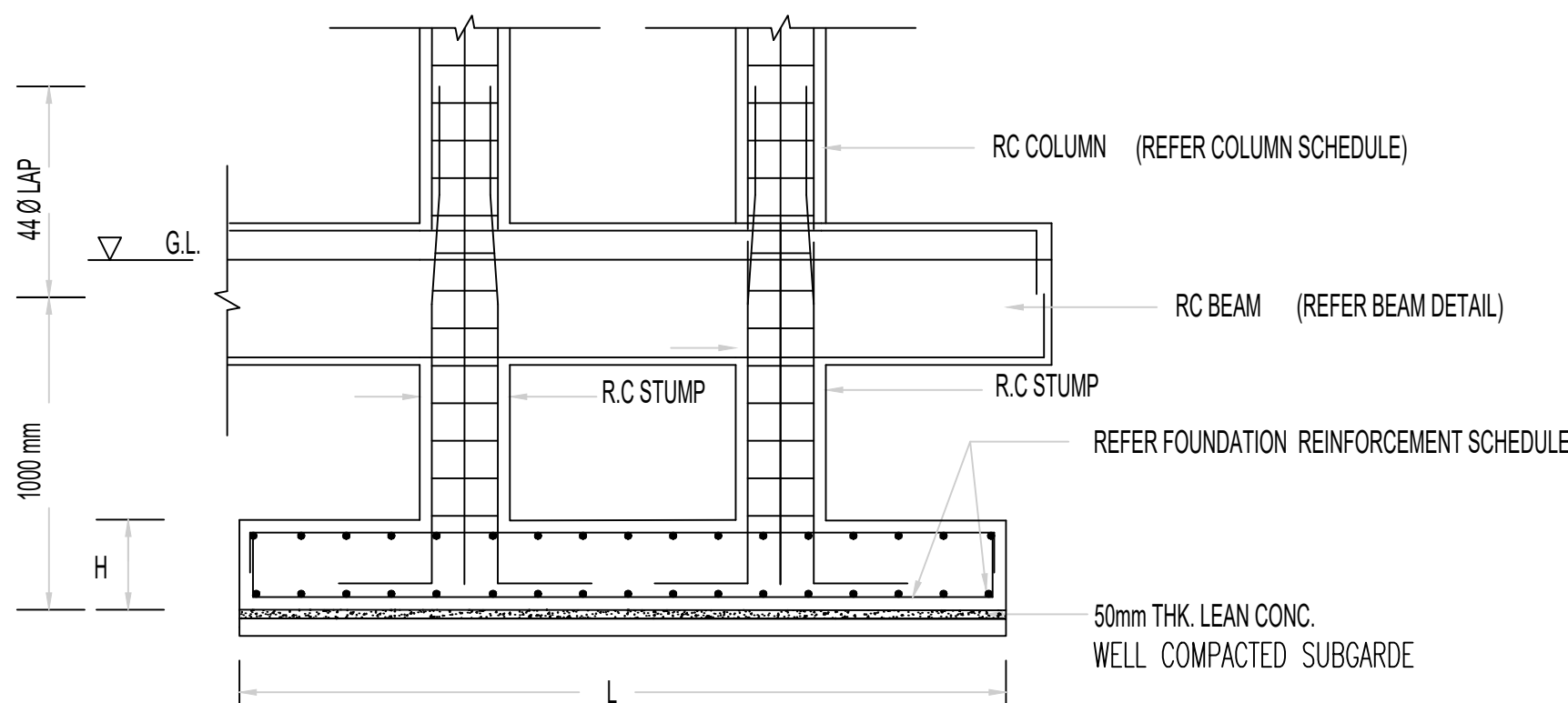
Soil Bearing = 100 kN/m²

FOUNDATION REINFORCEMENT SCHEDULE



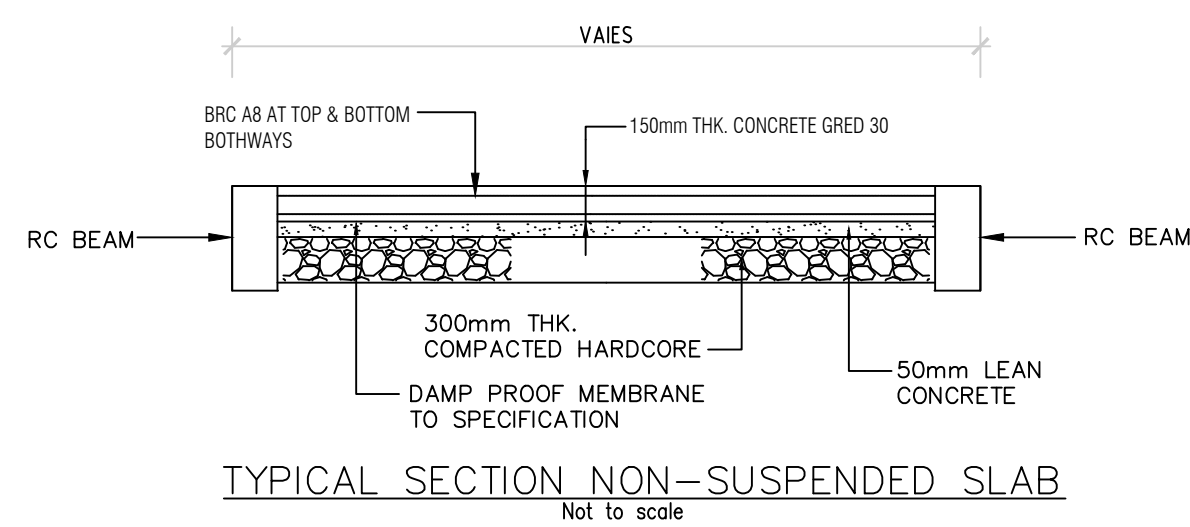
TYPICAL SINGLE FOOTING

Not to scale



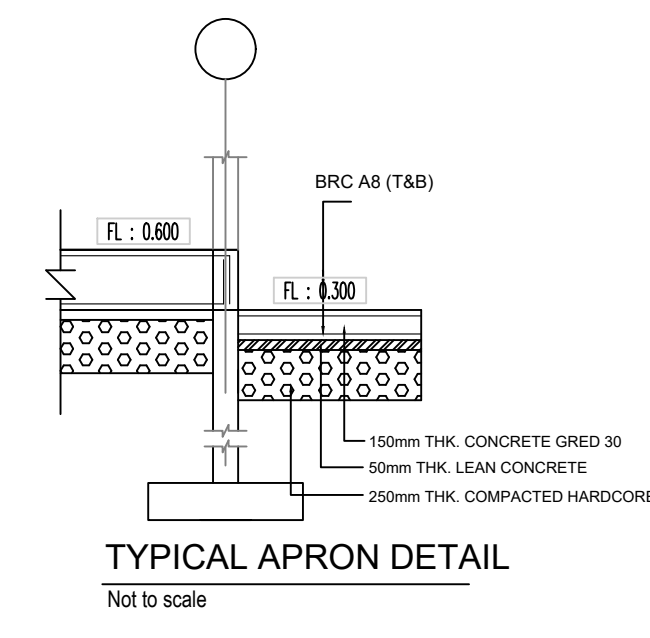
TYPICAL COMBINE FOOTING

Not to scale



TYPICAL SECTION NON-SUSPENDED SLAB

Not to scale



TYPICAL APRON DETAIL

Not to scale

NOTES:

- 1) THESE STRUCTURAL DETAILS ARE TO BE READ IN CONJUNCTION WITH ARCHITECTURAL, M&E AND OTHER RELEVANT DRAWINGS.
- 2) ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH THE WORK.
- 3) CONCRETE GRADE 30 SHALL BE USED (UNLESS OTHERWISE) AND COMPLIANCE TO B.S 8110 1985
- 4) A MIN. DEPTH OF 50mm (2") LEAN CONCRETE SHALL BE PROVIDED TO ALL STRUCTURES IN CONTACT WITH THE GROUND, I.E. AT SOFFIT OF FOOTINGS, PILE CAP,GROUND BEAM, GROUND SLAB, ETC. WHETHER OR NOT SHOWN IN THE DRAWINGS
- 5) 125mm X 225mm (5" X 9") LINTOL BEAM (REINF. 2Y12 TOP & BOTTOM,LINKS R6-200c/c) TO BE PROVIDED OVER WINDOW/DOOR FOR SPAN UP TO 2.4 METRE (8'-0") LONG.
- 6) ALL DIMENSIONS IN mm UNLESS SPECIFIED OTHERWISE.
- 7) CONCRETE CLEAR COVER :
 - a) PILE CAPS/FOOTING :50mm
 - b) GROUND BEAMS :25mm
 - c) STUMPS & COLUMNS :25mm
 - d) SUPERSTRUCTURAL BEAMS :15mm
- 8) BRC SHALL BE USED FOR ALL SLAB REINFORCEMENT (fy = 460N/mm²)
- 9) THE YIELD STRESSES FOR REINFORCEMENT STEEL SHALL BE AS FOLLOW:
 - HIGH YIELD STEEL (Y) : 410 N/mm²
 - MILD YIELD STEEL (R) : 250 N/mm²
- 10) ALL LOADBEARING WALLS TO BE POSITIONED CENTRALLY ON BEAMS
- 11) FOR SETTINGOUT TO REFER ARCHITECTURE
- 12) ALL BRICKWALL TO BE 114mm THK. EXCEPT PARTY WALL IS 225mm THK.
- 13) ALL BRICKWORK MUST HAVE A MIN. CRUSHING STRENGTH OF 20N/mm² with 1:1:6 CEMENT-LIME-SAND MORTAR MIX.
- 14) ALL DIMENSION SHOULD REFER TO ARCHITECTURAL DRAWING.

PROJECT:

CADANGAN PEMBANGUNAN 1 BLOK KUARTERS GURU 2 TINGKAT DI ATAS SEBAHAGIAN LOT 100508 (MAKTAB RENDAH SAINS MARA (MRSM) ATM BERA) SELUAS 0.500 EKAR, MUKIM BERA, DAERAH BERA, PAHANG DARUL MAKMUR UNTUK TUTUAN MAJLIS AMANAH RAKYAT (MARA)

DETAIL :

- PAD FOUNDATION KEY PLAN
- COLUMN REINFORCEMENT SCHEDULE
- FOUNDATION REINFORCEMENT SCHEDULE
- TYPICAL SINGLE FOOTING
- TYPICAL COMBINE FOOTING

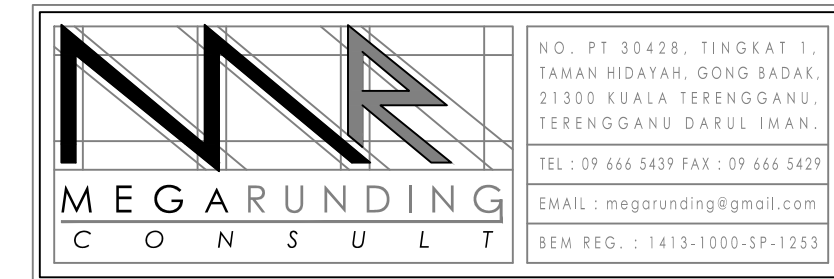
OWNER :

MOHD RIDHWAN BIN ABD YAZID
Pengerah
Bahagian Binaan & Selenggaraaan
Majlis Amanah Rakyat (MARA)
NO.KP : 720704-03-5451
MAJLIS AMANAH RAKYAT (MARA)
IBU PEJABAT MARA, NO 21, JALAN MARA,
50609, KUALA LUMPUR
TEL : 0326132000 FAX : 0326949661



ENGINEER SIGNATURE :

I HEREBY CERTIFY THAT THESE WORKS HAS BEEN DESIGNED BY ME IN ACCORDANCE WITH SOUND ENGINEERING PRACTICE AND THAT I TAKE FULL RESPONSIBILITY FOR THE DESIGN AND PROPER PERFORMANCE OF THE SAME.



SCALE : AS SHOWN PROJECT NO.
DATE : NOVEMBER 2024 MR / YYA 03 / 05 / 24
DRW. NO. : 1/16

COLUMN MARK		C103: (1,0) C104: (1,0A) C154: (1,D2) C155: (1,F1)	C150: (1A,A4) C151: (1A,C4) C152: (6,A4) C153: (6,C4) C135: (7,0B) C138: (2A1,0B) C140: (8,0B)	C2: (2,A) C5: (2,A7) C6: (2,C1) C9: (2,D) C12: (2A,A3) C13: (2A,A5) C15: (2A,B) C16: (2A,C) C17: (2A,C3) C18: (2A,C5) C23: (2B,A4) C24: (2B,C4) C29: (2C,C6) C34: (3,A) C174: (2,C5) C180: (5,C5)	C37: (3,A4) C38: (3,A5) C41: (3,C3) C42: (3,C4) C102: (3,D) C49: (3B,B1) C147: (3D,B) C142: (3D,B1) C56: (4,A) C60: (4,A5) C63: (4,C3) C67: (4,D) C68: (4A,A5) C69: (4A,B) C177: (2,A3)	C70: (4A,C) C71: (4A,C3) C72: (4B,A2) C73: (4B,C6) C82: (4D,A) C84: (4D,A3) C85: (4D,A5) C87: (4D,B) C88: (4D,C) C90: (4D,C3) C91: (4D,C5) C93: (4D,D) C94: (5,A) C101: (5,D) C179: (5,A3)	C4: (2,A4) C7: (2,C4) C96: (5,A4)	C107: (7,0) C108: (7,0A) C156: (7,D2) C157: (7,F1) C111: (2A1,0) C112: (2A1,0A) C158: (2A1,D2) C159: (2A1,F1) C115: (2E,0) C116: (2E,0A) C160: (2E,D2) C161: (2E,F1) C119: (3A1,0) C120: (3A1,0A)	C121: (3A1,A2A) C122: (3A1,A4A) C162: (3A2,C5A) C163: (3A2,C7A) C164: (3A2,D2) C165: (3A2,F1) C166: (3E,C5A) C167: (3E,C7A) C168: (3E,D2) C169: (3E,F1) C127: (3C1,0) C128: (3C1,0A) C129: (3C1,A2A) C130: (3C1,A4A)	C10: (2A,A) C11: (2A,A2) C14: (2A,A7) C137: (2A,C1) C145: (2A,C6) C19: (2A,D) C21: (2B,A1) C22: (2B,A3) C25: (2B,C5) C26: (2B,C7) C31: (2D,B) C32: (2D,C) C36: (3,A3) C43: (3,C5) C146: (3B,B) C58: (4,A3)	C59: (4,A4) C61: (4,B1) C64: (4,C4) C65: (4,C5) C66: (4,C6) C75: (4C,A1) C76: (4C,A3) C77: (4C,A4) C78: (4C,C4) C79: (4C,C5) C80: (4C,C7) C83: (4D,A2) C86: (4D,A7) C89: (4D,C1) C92: (4D,C6) C97: (5,A7) C98: (5,C1)
FLOOR											
RFB To FFB											
	MAIN BAR			4Y12			6Y12			4Y12	
	OUTER TIES			Y10 – 125			Y10 – 125			Y10 – 125	
	INNER TIES			Nil.			Y10 – 125			Nil.	
	COL. SIZE			125 X 300			400 X 135			300 X 125	
FFB To GFB											
	MAIN BAR	4Y12		4Y12			6Y12			4Y12	
	OUTER TIES	R6 – 125		R6 – 125			R6 – 125			R6 – 125	
	INNER TIES	Nil.		Nil.			R6 – 125			Nil.	
	COL. SIZE	175 X 175		125 X 300			400 X 135			300 X 125	
Stump (GFB)											
	MAIN BAR	4Y16	4Y12	4Y12			6Y12			4Y12	
	OUTER TIES	Y10 – 175	R6 – 125	R6 – 125			R6 – 125			R6 – 125	
	INNER TIES	Nil.	Nil.	Nil.			R6 – 125			Nil.	
	COL. SIZE	250 X 250	150 X 150	125 X 300			400 X 135			300 X 125	

COLUMN REINFORCEMENT SCHEDULE (GROUP)

COLUMN MARK		C20: (2B,A) C27: (2B,D) C28: (2C,A2) C30: (2D,A5) C33: (2D,C3) C74: (4C,A) C81: (4C,D)	C35: (3,A2) C44: (3,C6) C57: (4,A2) C62: (4,C) C175: (2,C6) C176: (2,A2) C178: (5,A2) C181: (5,C6)	C39: (3,B) C40: (3,C) C99: (5,C4)	C45: (3A,A4) C46: (3A,A6) C47: (3A,C2) C48: (3A,C4) C52: (3D,A4) C53: (3D,A6) C54: (3D,C2) C55: (3D,C4)	C50: (3B,C)	C170: (3A1,A6) C172: (3E,C2) C173: (3C1,A6)	C171: (3A2,C2)
FLOOR								
RFB To FFB								
	MAIN BAR	4Y12	4Y12	6Y12	4Y12	6Y12		
	OUTER TIES	R6 – 125	R6 – 125	Y10 – 125	R6 – 125	Y10 – 125		
	INNER TIES	Nil.	Nil.	Y10 – 125	Nil.	Y10 – 125		
	COL. SIZE	125 X 300	300 X 125	400 X 125	200 X 200	135 X 400		
FFB To GFB								
	MAIN BAR	4Y12	4Y12	6Y12	4Y12	6Y12	4Y12	4Y20
	OUTER TIES	R6 – 125	R6 – 125	R6 – 125	R6 – 125	R6 – 125	R6 – 100	Y10 – 225
	INNER TIES	Nil.	Nil.	R6 – 125	Nil.	R6 – 125	Nil.	Nil.
	COL. SIZE	125 X 300	300 X 125	400 X 125	200 X 200	135 X 400	125 X 250	125 X 250
Stump (GFB)								
	MAIN BAR	4Y12	4Y12	6Y12	4Y12	6Y12		
	OUTER TIES	R6 – 125	R6 – 125	R6 – 125	R6 – 125	R6 – 125		
	INNER TIES	Nil.	Nil.	R6 – 125	Nil.	R6 – 125		
	COL. SIZE	125 X 300	300 X 125	400 X 125	200 X 200	135 X 400		

- NOTES:
- THESE STRUCTURAL DETAILS ARE TO BE READ IN CONJUNCTION WITH ARCHITECTURAL, M&E AND OTHER RELEVANT DRAWINGS.
 - ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH THE WORK.
 - CONCRETE GRADE 30 SHALL BE USED (UNLESS OTHERWISE) AND COMPLIANCE TO B.S 8110 1985
 - A MIN. DEPTH OF 50mm (2") LEAN CONCRETE SHALL BE PROVIDED TO ALL STRUCTURES IN CONTACT WITH THE GROUND, I.E. AT SOFFIT OF FOOTINGS, PILE CAP,GROUND BEAM, GROUND SLAB, ETC. WHETHER OR NOT SHOWN IN THE DRAWINGS
 - 125mm X 225mm (5" X 9") LINTOL BEAM (REINF. 2Y12 TOP & BOTTOM,LINKS R6-200c/c) TO BE PROVIDED OVER WINDOW/DOOR FOR SPAN UP TO 2.4 METRE (8'-0") LONG.
 - ALL DIMENSIONS IN mm UNLESS SPECIFIED OTHERWISE.
 - CONCRETE CLEAR COVER :
 - PILE CAPS/FOOTING :50mm
 - GROUND BEAMS :25mm
 - STUMPS & COLUMNS :25mm
 - SUPERSTRUCTURAL BEAMS :25mm
 - BRC SHALL BE USED FOR ALL SLAB REINFORCEMENT (fy = 460N/mm2)
 - THE YIELD STRESSES FOR REINFORCEMENT STEEL SHALL BE AS FOLLOW:
 - HIGH YIELD STEEL (Y) : 410 N/mm²
 - MILD YIELD STEEL (R) : 250 N/mm²
 - : 485 N/mm²
 - ALL LOADBearing WALLS TO BE POSITIONED CENTRALLY ON BEAMS
 - FOR SETTINGOUT TO REFER ARCHITECTURE
 - ALL BRICKWALL TO BE 114mm THK. EXCEPT PARTY WALL IS 225mm THK.
 - ALL BRICKWORK MUST HAVE A MIN. CRUSHING STRENGTH OF 20N/mm2 with 1:1:6 CEMENT-LIME-SAND MORTAR MIX.
 - ALL DIMENSION SHOULD REFER TO ARCHITECTURAL DRAWING.

PROJECT:

CADANGAN PEMBANGUNAN 1 BLOK KUARTERS GURU 2 TINGKAT DI ATAS SEBAHAGIAN LOT 100508 (MAKTAB RENDAH SAINS MARA (MRSM) ATM BERA) SELUAS 0.500 EKAR, MUKIM BERA, DAERAH BERA, PAHANG DARUL MAKMUR UNTUK TETUAN MAJLIS AMANAH RAKYAT (MARA)

DETAIL :

- COLUMN REINFORCEMENT SCHEDULE (GROUP)

OWNER :

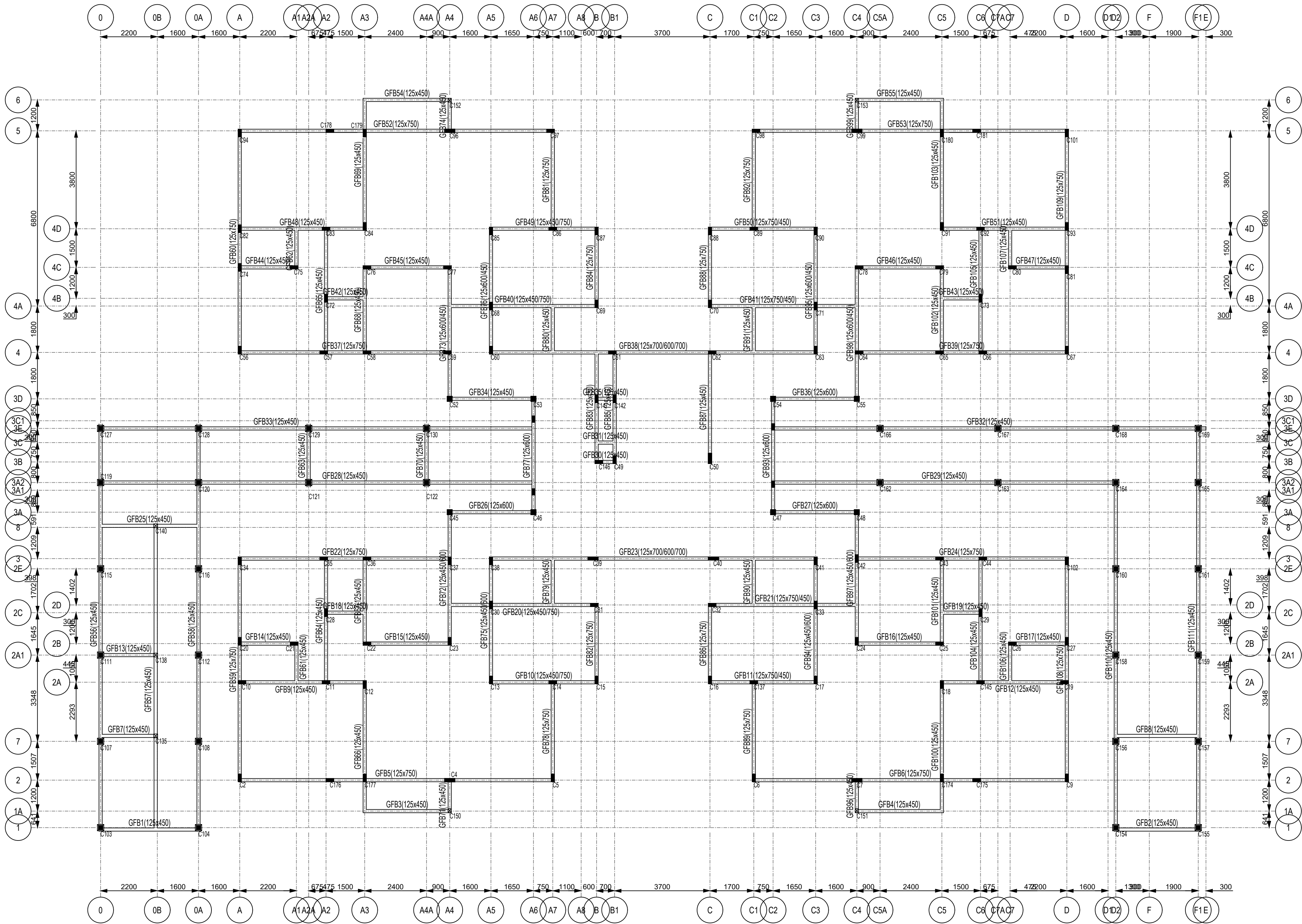
.....
MOHD RIDHWAN BIN ABD YAZID
Pengerah
Bahagian Binaan & Selenggaraaan
Majlis Amanah Rakyat (MARA)
NO.KP : 720704-03-5451

MAJLIS AMANAH RAKYAT (MARA)
IBU PEJABAT MARA, NO 21, JALAN MARA,
50609, KUALA LUMPUR
TEL : 0326132000 FAX : 0326949661

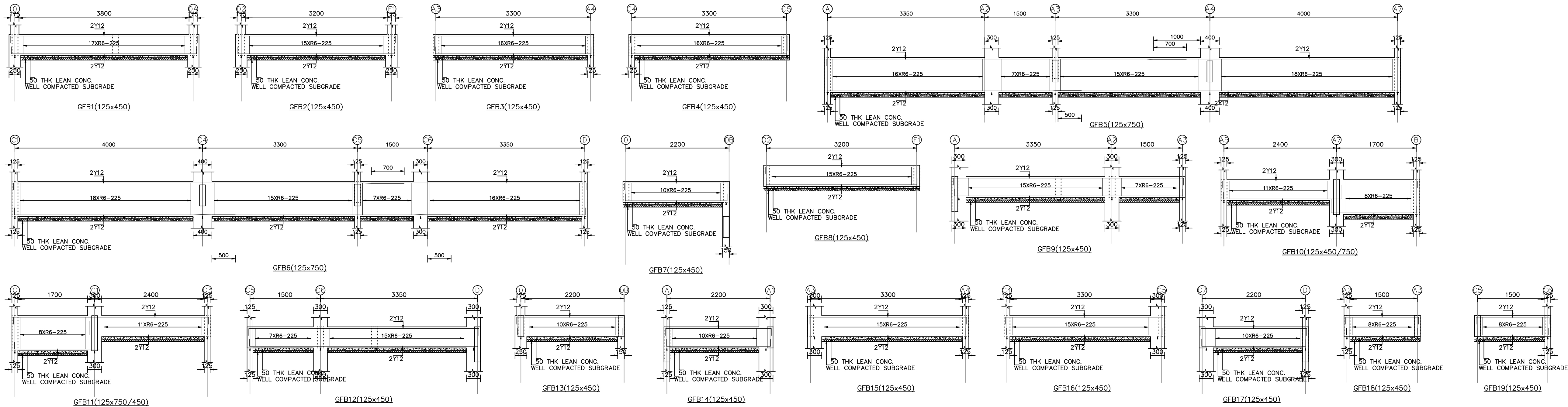
ENGINEER SIGNATURE :

.....
N.O. PT 30428, TINGKAT 1,
TAMAN HIDAYAH, GONG BADAK,
21300 KUALA TERENGKANG,
TERENGGANU DARUL-ILIMAN,
TEL : 09 666 5439 FAX : 09 666 5439
EMAIL : megarunding@gmail.com
SEM REG. : 1413-1000-SP-1253

NO. PT 30428, TINGKAT 1,
TAMAN HIDAYAH, GONG BADAK,
21300 KUALA TERENGKANG,
TERENGGANU DARUL-ILIMAN,
TEL : 09 666 5439 FAX : 09 666 5439
EMAIL : megarunding@gmail.com
SEM REG. : 1413-1000-SP-1253



FLOOR KEY PLAN: GFB



NOTES:

- 1) THESE STRUCTURAL DETAILS ARE TO BE READ IN CONJUNCTION WITH ARCHITECTURAL, M&E AND OTHER RELEVANT DRAWINGS.
- 2) ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH THE WORK.
- 3) CONCRETE GRADE 30 SHALL BE USED (UNLESS OTHERWISE) AND COMPLIANCE TO B.S 8110 1985
- 4) A MIN. DEPTH OF 50mm (2") LEAN CONCRETE SHALL BE PROVIDED TO ALL STRUCTURES IN CONTACT WITH THE GROUND, I.E. AT SOFFIT OF FOOTINGS, PILE CAP, GROUND BEAM, GROUND SLAB, ETC. WHETHER OR NOT SHOWN IN THE DRAWINGS
- 5) 125mm X 225mm (5" X 9") LINTOL BEAM (REINF. 2Y12 TOP & BOTTOM, LINKS R6-200c/c) TO BE PROVIDED OVER WINDOW/DOOR FOR SPAN UP TO 2.4 METRE (8'-0") LONG.
- 6) ALL DIMENSIONS IN mm UNLESS SPECIFIED OTHERWISE.
- 7) CONCRETE CLEAR COVER :
 - a) PILE CAPS/FOOTING :50mm
 - b) GROUND BEAMS :25mm
 - c) STUMPS & COLUMNS :25mm
 - d) SUPERSTRUCTURAL BEAMS :15mm
- 8) BRC SHALL BE USED FOR ALL SLAB REINFORCEMENT (fy = 460N/mm²)
- 9) THE YIELD STRESSES FOR REINFORCEMENT STEEL SHALL BE AS FOLLOW:
 - HIGH YIELD STEEL (Y) : 410 N/mm²
 - MILD YIELD STEEL (R) : 250 N/mm²
- 10) ALL LOADBEARING WALLS TO BE POSITIONED CENTRALLY ON BEAMS
- 11) FOR SETTINGOUT TO REFER ARCHITECTURE
- 12) ALL BRICK WALL TO BE 114mm THK. EXCEPT PARTY WALL IS 225mm THK.
- 13) ALL BRICKWORK MUST HAVE A MIN. CRUSHING STRENGTH OF 20N/mm² with 1:1.6 CEMENT-LIME-SAND MORTAR MIX.
- 14) ALL DIMENSION SHOULD REFER TO ARCHITECTURAL DRAWING.

PROJECT:

CADANGAN PEMBANGUNAN 1 BLOK KUARTERS GURU 2 TINGKAT DI ATAS SEBAHAGIAN LOT 100508 (MAKTAB RENDAH SAINS MARA (MRSM) ATM BERA) SELUAS 0.500 EKAR, MUKIM BERA, DAERAH BERA, PAHANG DARUL MAKMUR UNTUK TUTUAN MAJLIS AMANAH RAKYAT (MARA)

DETAIL :

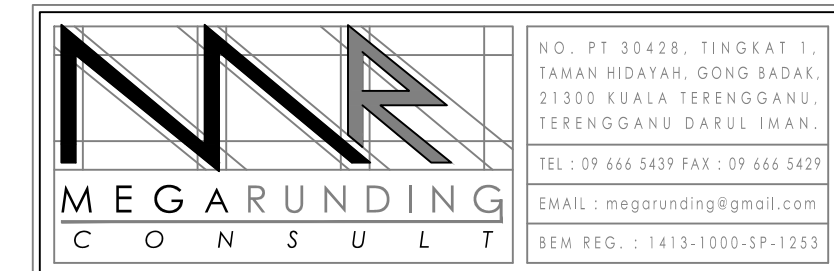
- GROUND FLOOR BEAM KEY PLAN
- GROUND FLOOR BEAM DETAILS

OWNER :

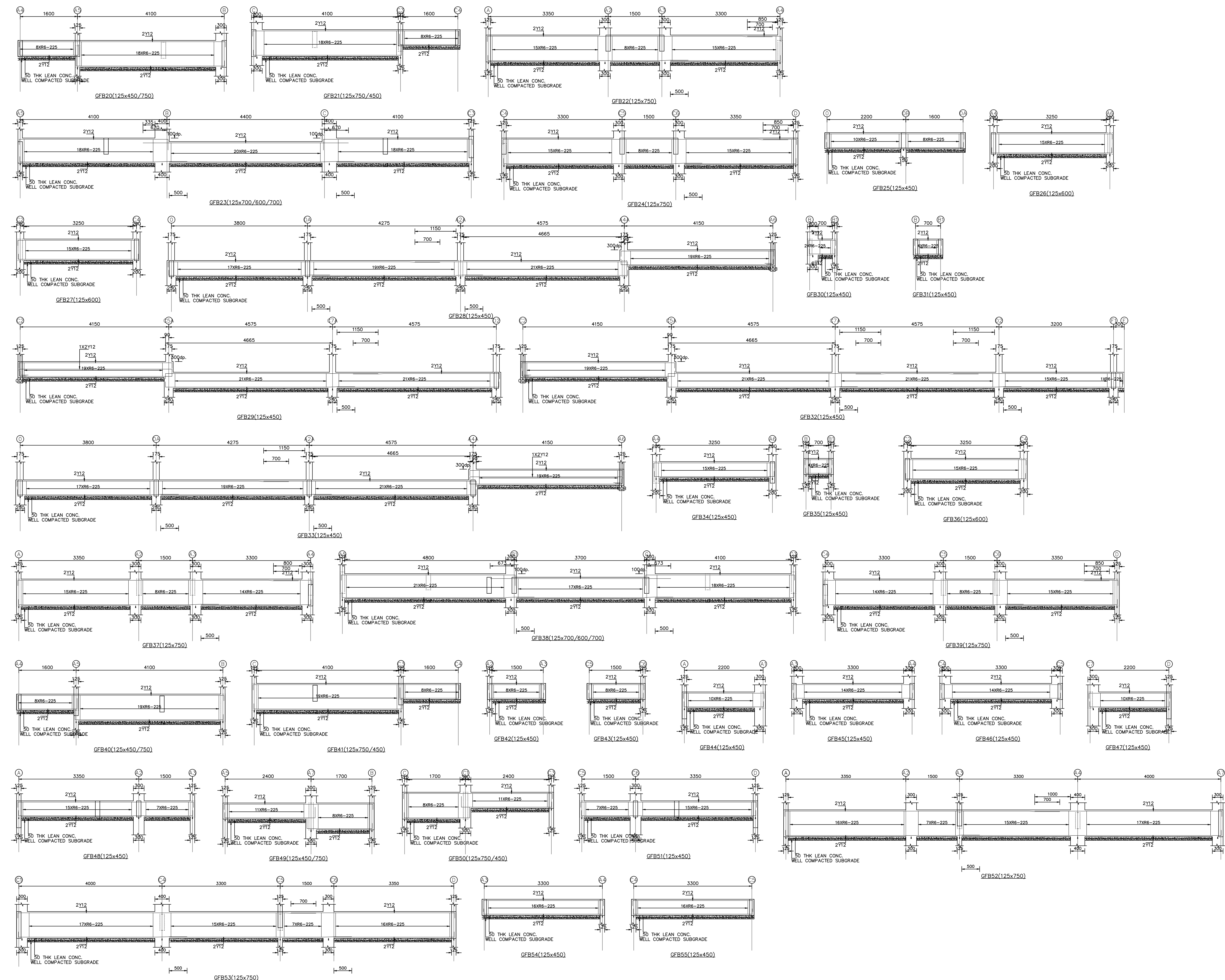
MOHD RIDHWAN BIN ABD YAZID
Pengerah
Bahagian Binaan & Selenggaraan
Majlis Amanah Rakyat (MARA)
NO.KP : 720704-03-5451
MAJLIS AMANAH RAKYAT (MARA)
IBU PEJABAT MARA, NO 21, JALAN MARA,
50609, KUALA LUMPUR
TEL : 0326132000 FAX : 0326949661

ENGINEER SIGNATURE :

I HEREBY CERTIFY THAT THESE WORKS HAS BEEN DESIGNED BY ME IN ACCORDANCE WITH SOUND ENGINEERING PRACTICE AND THAT I TAKE FULL RESPONSIBILITY FOR THE DESIGN AND PROPER PERFORMANCE OF THE SAME.



SCALE : AS SHOWN PROJECT NO.
DATE : NOVEMBER 2024 MR / YYA 03 / 05 / 24
DRW. NO. : 3/16



- NOTES:
- 1) THESE STRUCTURAL DETAILS ARE TO BE READ IN CONJUNCTION WITH ARCHITECTURAL, M&E AND OTHER RELEVANT DRAWINGS.
 - 2) ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH THE WORK.
 - 3) CONCRETE GRADE 30 SHALL BE USED (UNLESS OTHERWISE) AND COMPLIANCE TO B.S 8110 1985
 - 4) A MIN. DEPTH OF 50mm (2") LEAN CONCRETE SHALL BE PROVIDED TO ALL STRUCTURES IN CONTACT WITH THE GROUND, I.E. AT SOFFIT OF FOOTINGS, PILE CAP, GROUND BEAM, GROUND SLAB, ETC. WHETHER OR NOT SHOWN IN THE DRAWINGS
 - 5) 125mm X 225mm (5" X 9") LINTOL BEAM (REINF. 2Y12 TOP & BOTTOM, LINKS R6-200c/c) TO BE PROVIDED OVER WINDOW/DOOR FOR SPAN UP TO 2.4 METRE (8'-0") LONG.
 - 6) ALL DIMENSIONS IN mm UNLESS SPECIFIED OTHERWISE.
 - 7) CONCRETE CLEAR COVER :
 - a) PILE CAPS/FOOTING : 50mm
 - b) GROUND BEAMS : 25mm
 - c) STUMPS & COLUMNS : 25mm
 - d) SUPERSTRUCTURAL BEAMS : 15mm
 - 8) BRC SHALL BE USED FOR ALL SLAB REINFORCEMENT ($f_y = 460N/mm^2$)
 - 9) THE YIELD STRESSES FOR REINFORCEMENT STEEL SHALL BE AS FOLLOW:
 - HIGH YIELD STEEL (Y) : 410 N/mm²
 - MILD YIELD STEEL (R) : 250 N/mm²
 - 10) ALL LOADBEARING WALLS TO BE POSITIONED CENTRALLY ON BEAMS
 - 11) FOR SETTING OUT TO REFER ARCHITECTURE
 - 12) ALL BRICK WALL TO BE 114mm THK. EXCEPT PARTY WALL IS 225mm THK.
 - 13) ALL BRICKWORK MUST HAVE A MIN. CRUSHING STRENGTH OF 20N/mm² WITH 1:1:6 CEMENT-LIME-SAND MORTAR MIX.
 - 14) ALL DIMENSION SHOULD REFER TO ARCHITECTURAL DRAWING.

PROJECT:

CADANGAN PEMBANGUNAN 1 BLOK KUARTERS GURU 2 TINGKAT DI ATAS SEBAHAGIAN LOT 100508 (MAKTAB RENDAH SAINS MARA (MRSM) ATM BERA) SELUAS 0.500 EKAR, MUKIM BERA, DAERAH BERA, PAHANG DARUL MAKMUR UNTUK TETUAN MAJLIS AMANAH RAKYAT (MARA)

DETAIL :

- GROUND FLOOR BEAM DETAILS


OWNER :

.....
MOHD RIDHWAN BIN ABD YAZID
Pengerah
Bahagian Binaan & Selenggaraan
Majlis Amanah Rakyat (MARA)
NO.KP : 720704-03-5451

 **MAJLIS AMANAH RAKYAT (MARA)**
IBU PEJABAT MARA, NO 21, JALAN MARA,
50609, KUALA LUMPUR
TEL : 0326132000 FAX : 0326949661

ENGINEER SIGNATURE :

I HEREBY CERTIFY THAT THESE WORKS HAS BEEN DESIGNED BY ME IN ACCORDANCE WITH SOUND ENGINEERING PRACTICE AND THAT I TAKE FULL RESPONSIBILITY FOR THE DESIGN AND PROPER PERFORMANCE OF THE SAME.

 **MEGARUNDING CONSULT**

N.O. PT 30428, TINGKAT 1,
TAMAN HIDAYAH, GONG BADAQ,
21300 KUALA TERENGGANU,
TERENGGANU DARUL-IMAN.
TEL : 09 666 5439 FAX : 09 666 5439
EMAIL : megarunding@gmail.com
BEM REG. : 1413-1000-SP-1233

SCALE : AS SHOWN PROJECT NO.
DATE : NOVEMBER 2024 MR / YYA 03 / 05 / 24
DRW. NO. : 4/16

NOTES:

- 1) THESE STRUCTURAL DETAILS ARE TO BE READ IN CONJUNCTION WITH ARCHITECTURAL, M&E AND OTHER RELEVANT DRAWINGS.
- 2) ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH THE WORK.
- 3) CONCRETE GRADE 30 SHALL BE USED (UNLESS OTHERWISE) AND COMPLIANCE TO B.S 8110 1985
- 4) A MIN. DEPTH OF 50mm (2") LEAN CONCRETE SHALL BE PROVIDED TO ALL STRUCTURES IN CONTACT WITH THE GROUND, I.E. AT SOFFIT OF FOOTINGS, PILE CAP, GROUND BEAM, GROUND SLAB, ETC. WHETHER OR NOT SHOWN IN THE DRAWINGS
- 5) 125mm X 225mm (5" X 9") LINTOL BEAM (REINF. 2Y12 TOP & BOTTOM, LINKS R6-200c/c) TO BE PROVIDED OVER WINDOW/DOOR FOR SPAN UP TO 2.4 METRE (8'-0") LONG.
- 6) ALL DIMENSIONS IN mm UNLESS SPECIFIED OTHERWISE.
- 7) CONCRETE CLEAR COVER :

a) PILE CAPS/FOOTING	:50mm
b) GROUND BEAMS	:25mm
c) STUMPS & COLUMNS	:25mm
d) SUPERSTRUCTURAL BEAMS	:25mm
	:15mm
- 8) BRC SHALL BE USED FOR ALL SLAB REINFORCEMENT ($f_y = 460N/mm^2$)
- 9) THE YIELD STRESSES FOR REINFORCEMENT STEEL SHALL BE AS FOLLOW:

- HIGH YIELD STEEL (Y) :	410 N/mm ²
- MILD YIELD STEEL (R) :	250 N/mm ²
	485 N/mm ²
- 10) ALL LOADBEARING WALLS TO BE POSITIONED CENTRALLY ON BEAMS
- 11) FOR SETTINGOUT TO REFER ARCHITECTURE
- 12) ALL BRICKWALL TO BE 114mm THK. EXCEPT PARTY WALL IS 225mm THK.
- 13) ALL BRICKWORK MUST HAVE A MIN. CRUSHING STRENGTH OF 20N/mm² WITH 1:1:6 CEMENT-LIME-SAND MORTAR MIX.
- 14) ALL DIMENSION SHOULD REFER TO ARCHITECTURAL DRAWING.

PROJECT:

CADANGAN PEMBANGUNAN 1 BLOK KUARTERS GURU 2 TINGKAT DI ATAS SEBAHAGIAN LOT 100508 (MAKTAB RENDAH SAINS MARA (MRSM) ATM BERA) SELUAS 0.500 EKAR, MUKIM BERA, DAERAH BERA, PAHANG DARUL MAKMUR UNTUK TUTUAN MAJLIS AMANAH RAKYAT (MARA)

DETAIL :

- GROUND FLOOR BEAM DETAILS

OWNER :

MOHD RIDHWAN BIN ABD YAZID

Pengarah
Bahagian Binaan & Selenggaraan
Majlis Amanah Rakyat (MARA)
NO.KP : 720704-03-5451



MAJLIS AMANAH RAKYAT (MARA)

IBU PEJABAT MARA, NO 21, JALAN MARA,
50609, KUALA LUMPUR
TEL : 0326132000 FAX : 0326949661

ENGINEER SIGNATURE :

I HEREBY CERTIFY THAT THESE WORKS HAS BEEN DESIGNED BY ME IN ACCORDANCE WITH SOUND ENGINEERING PRACTICE AND THAT I TAKE FULL RESPONSIBILITY FOR THE DESIGN AND PROPER PERFORMANCE OF THE SAME.



N.O. PT 30428, TINGKAT 1,
TAMAN HIDAYAH, GONG BADAQ,
21300 KUALA TERENGGANU,
TERENGGANU DARUL IMAH.
TEL : 09 666 5439 FAX : 09 666 5429
EMAIL : megarunding@gmail.com
SEM REG. : 1413-1000-SP-1233

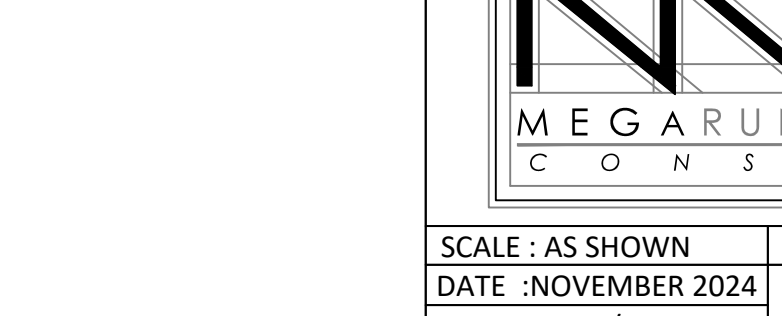
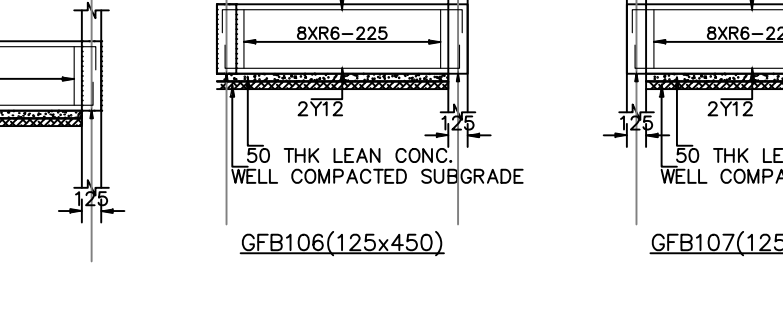
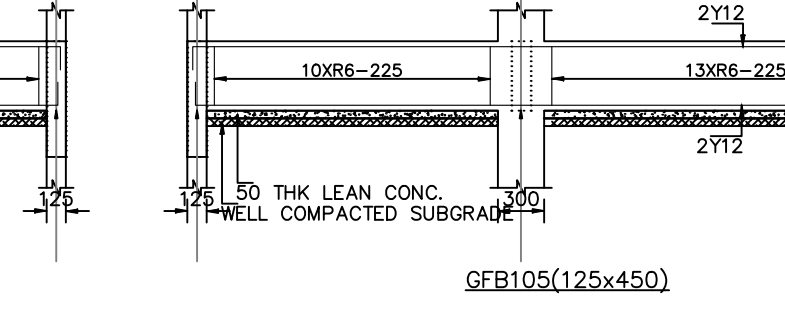
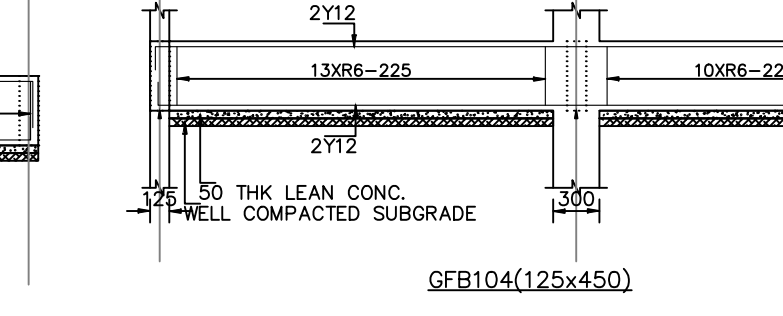
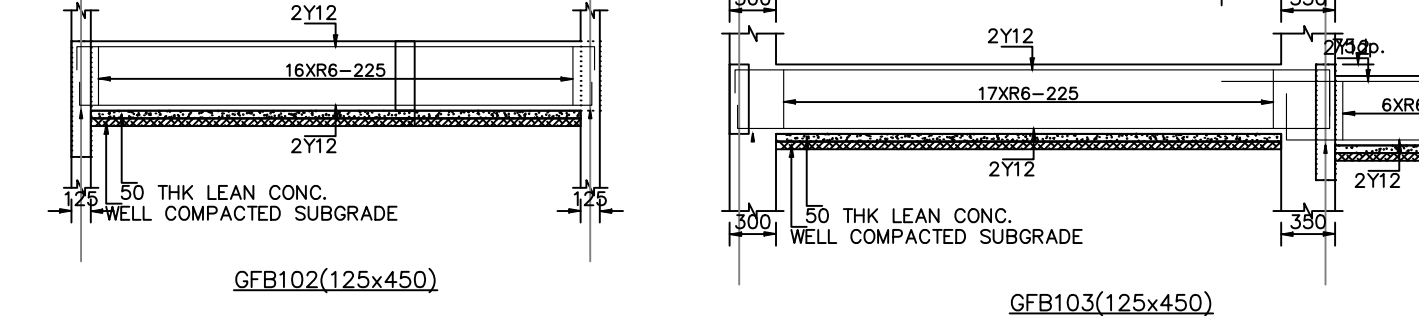
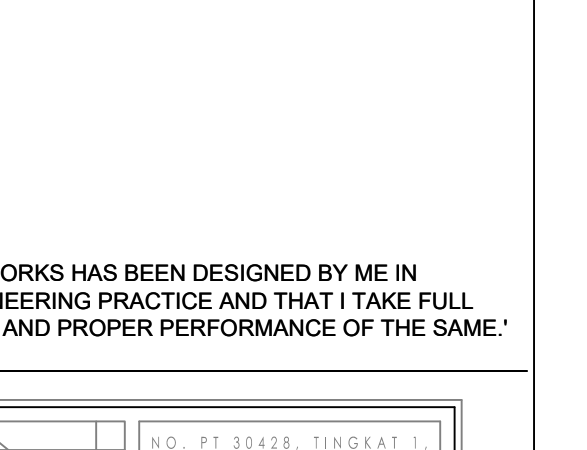
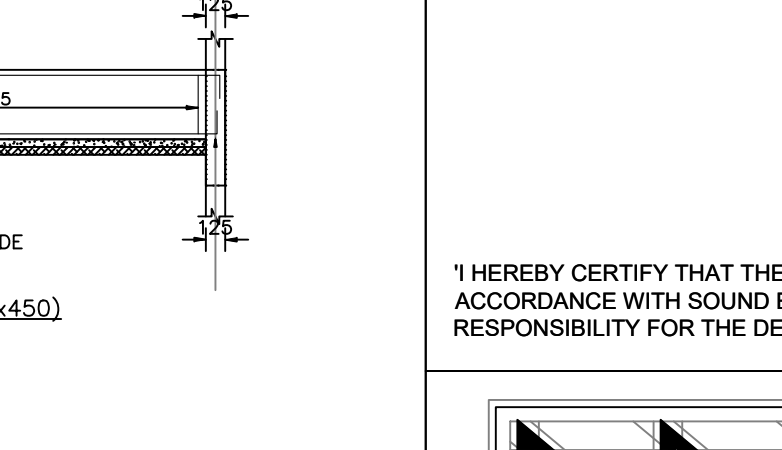
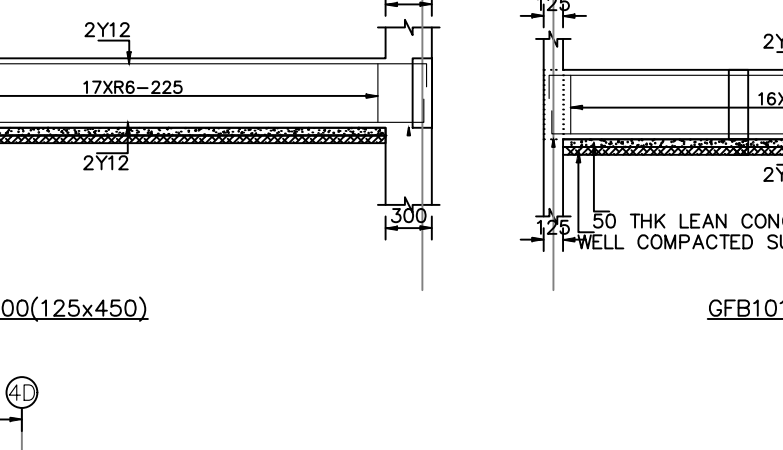
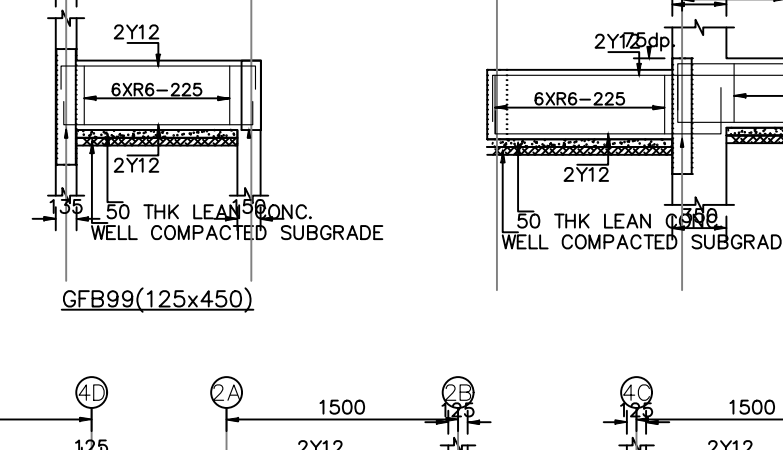
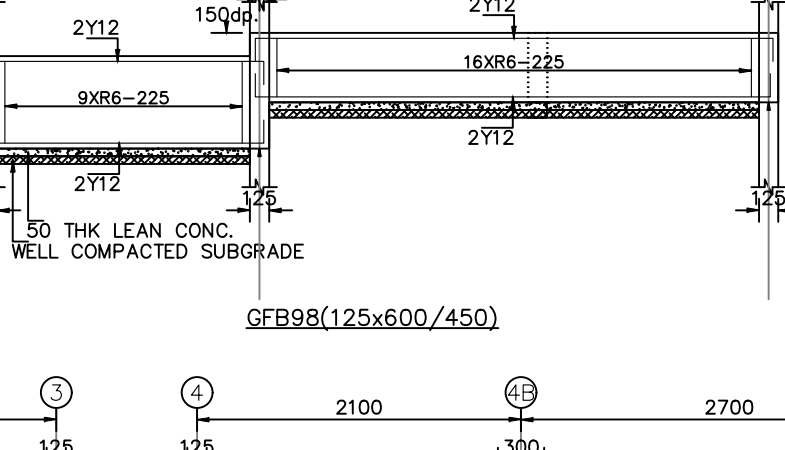
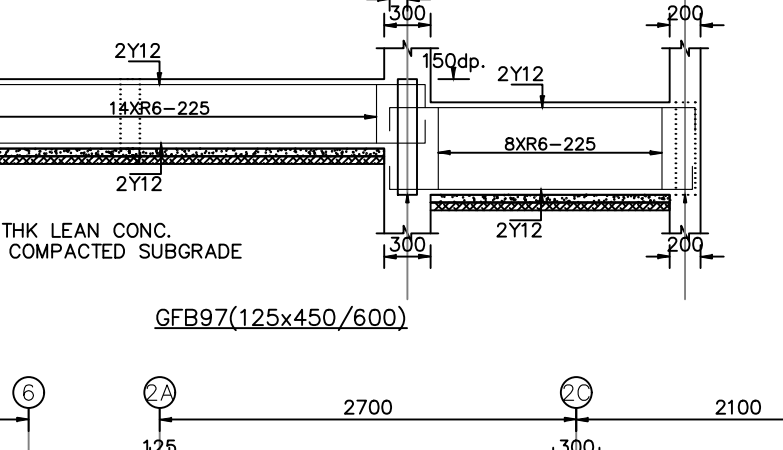
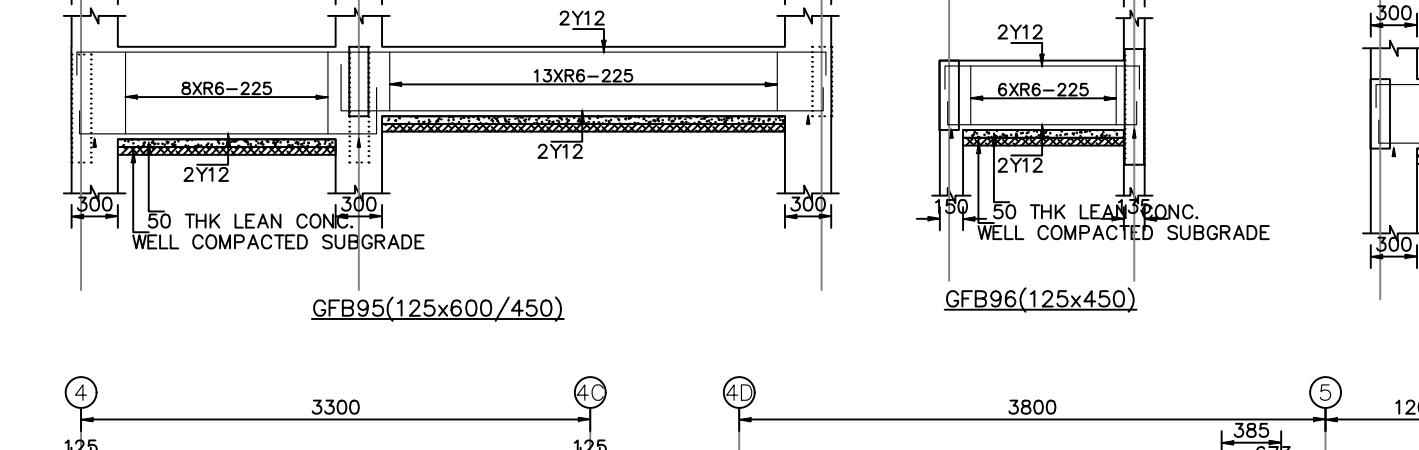
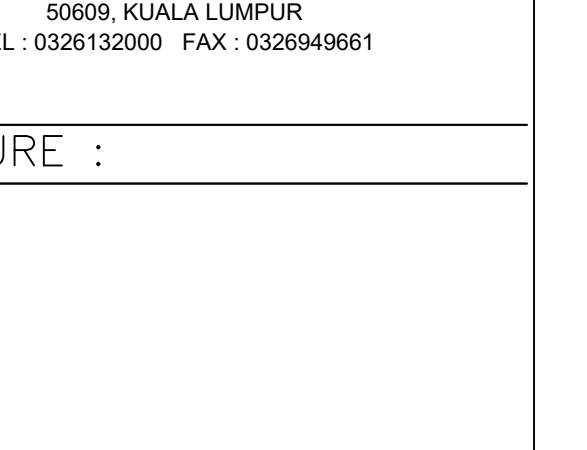
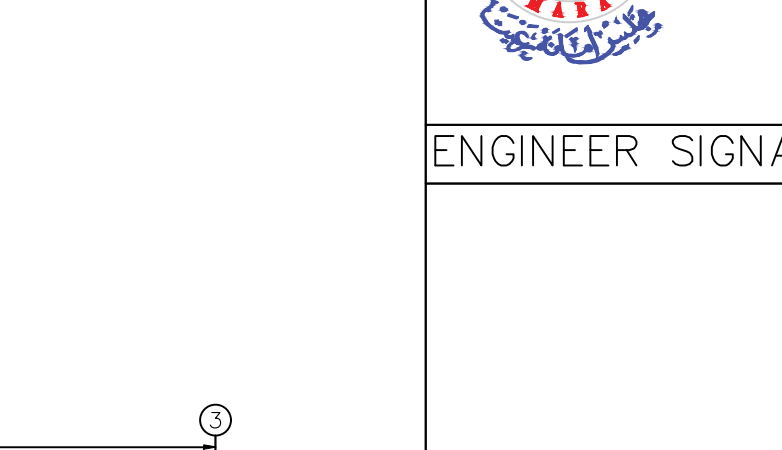
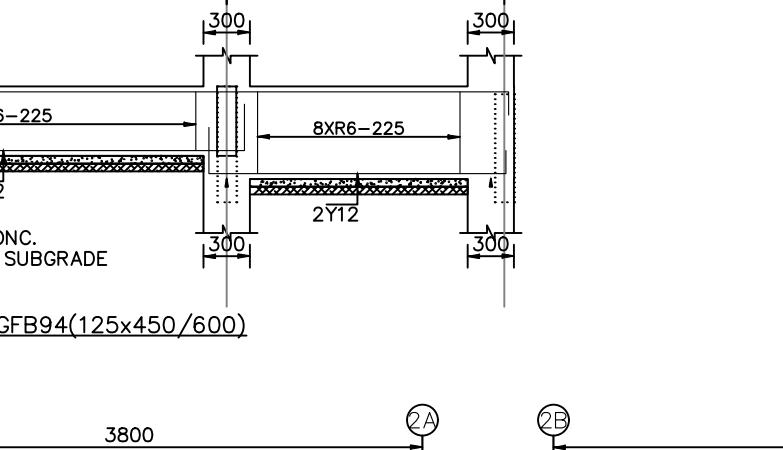
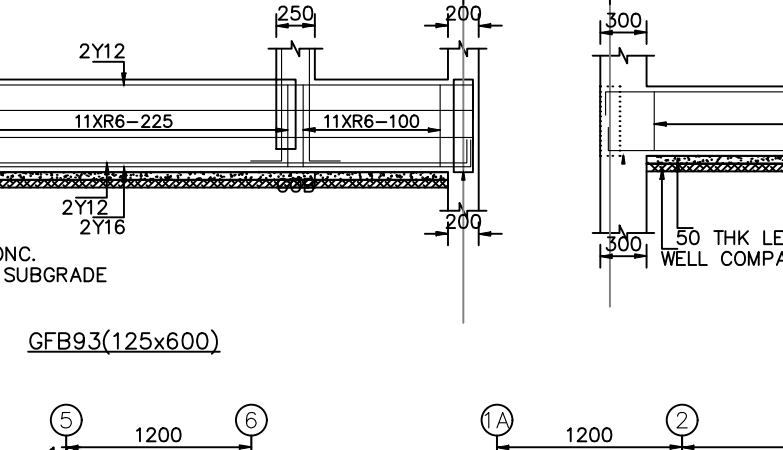
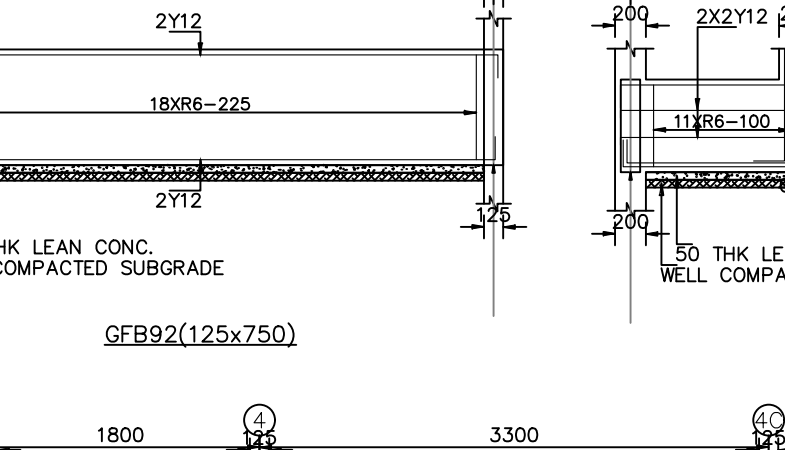
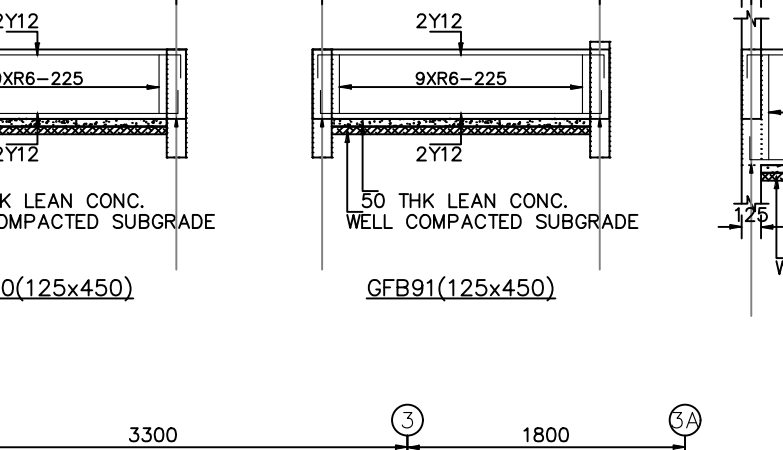
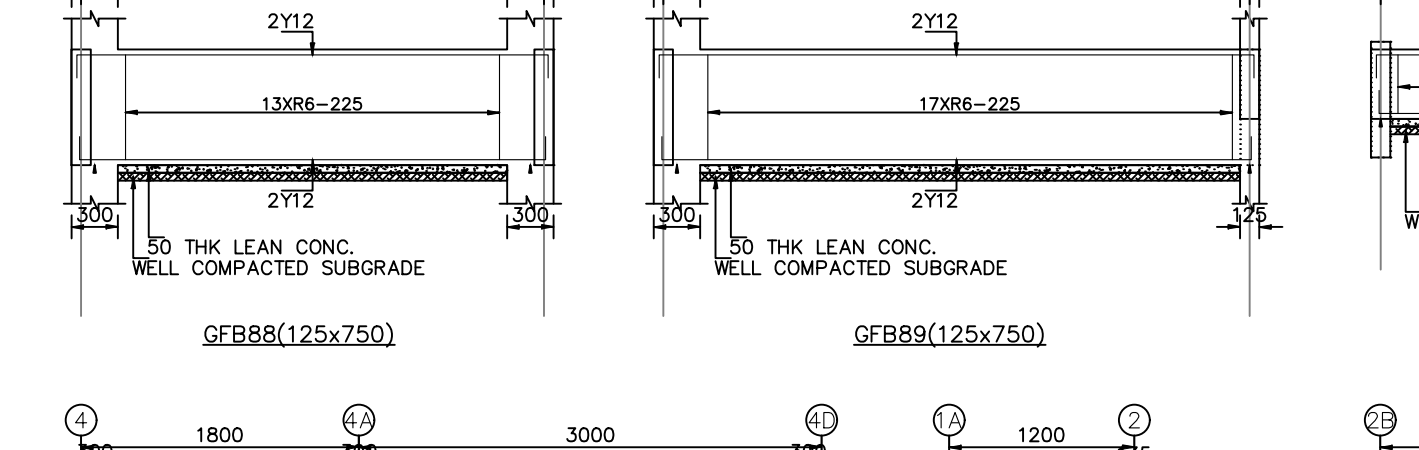
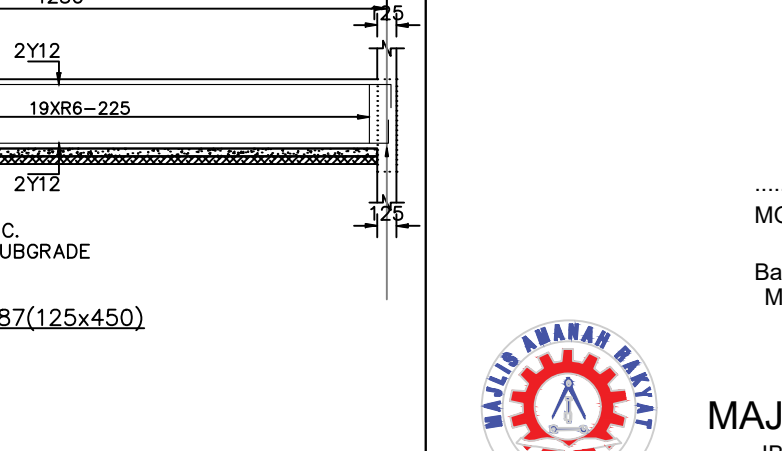
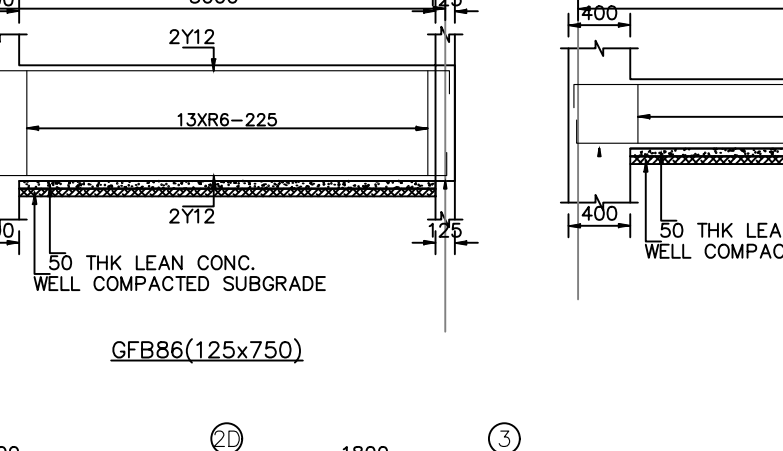
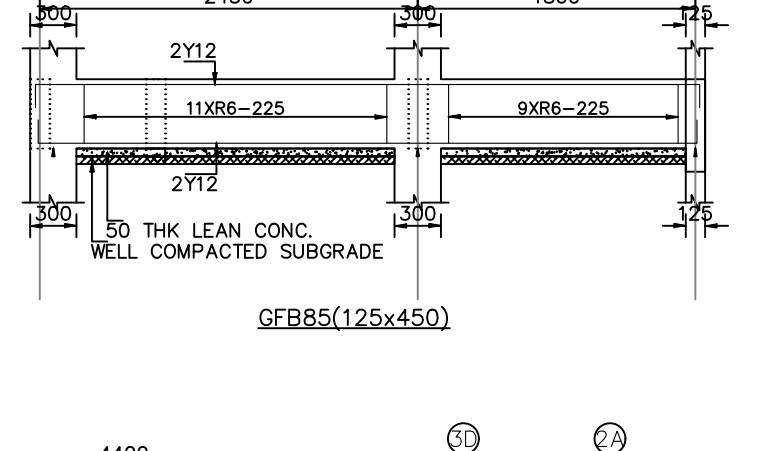
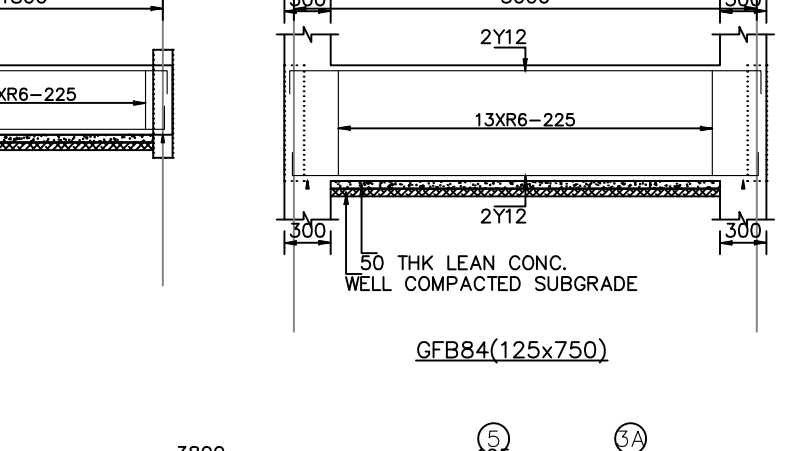
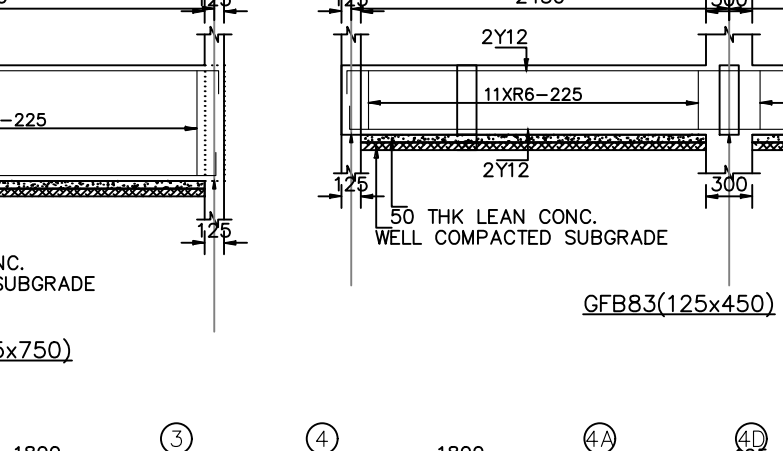
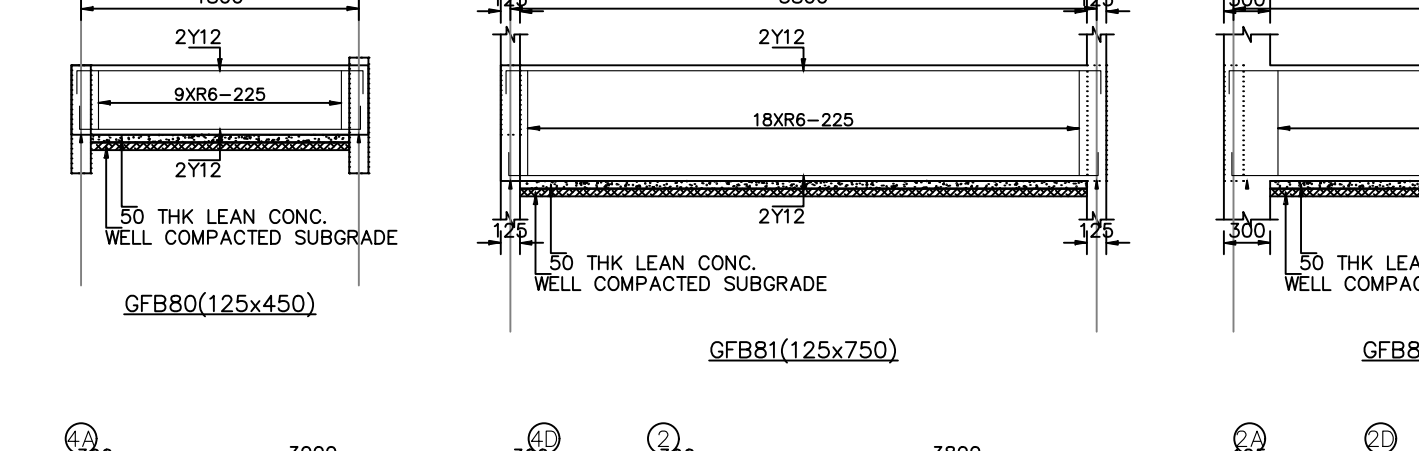
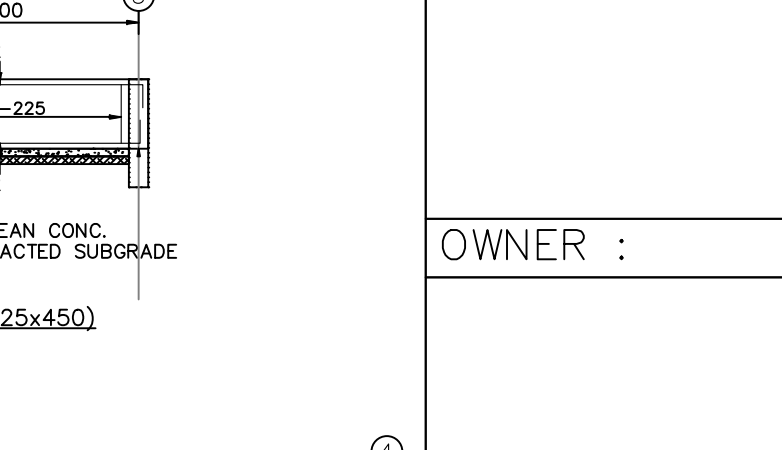
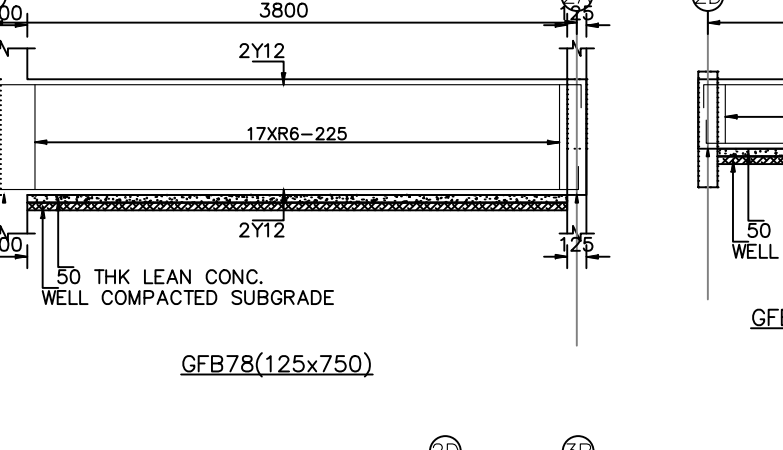
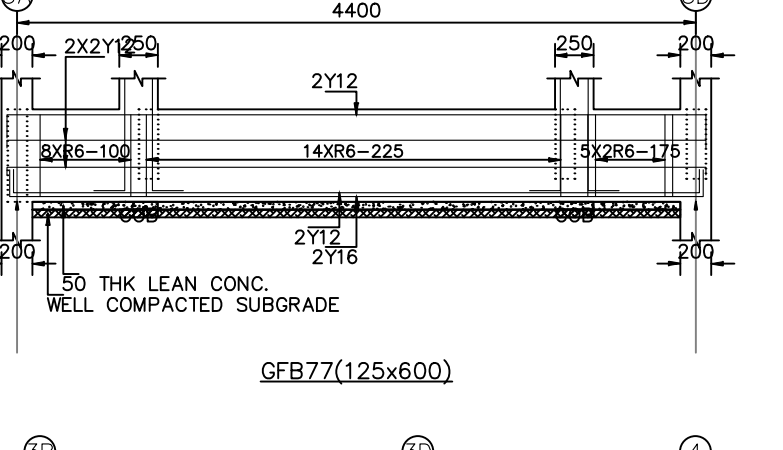
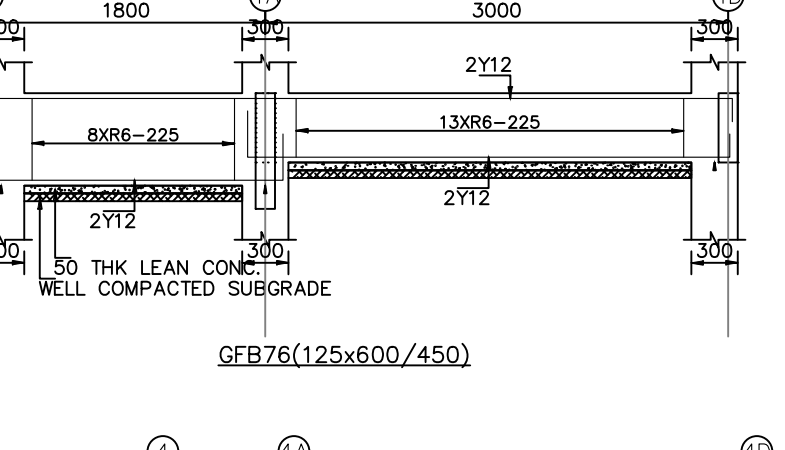
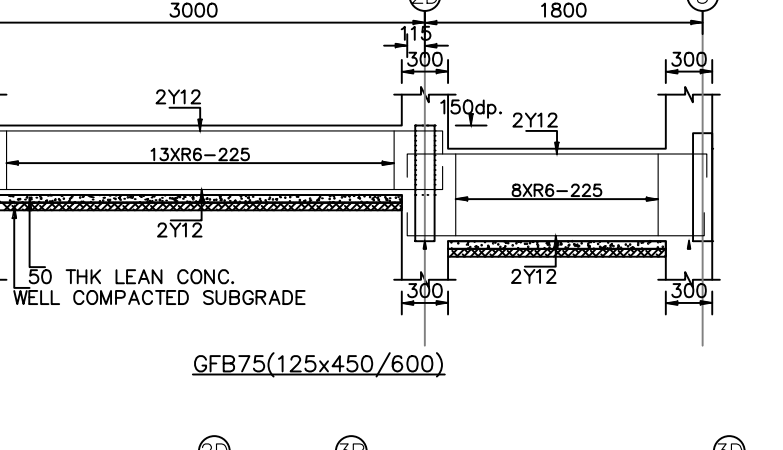
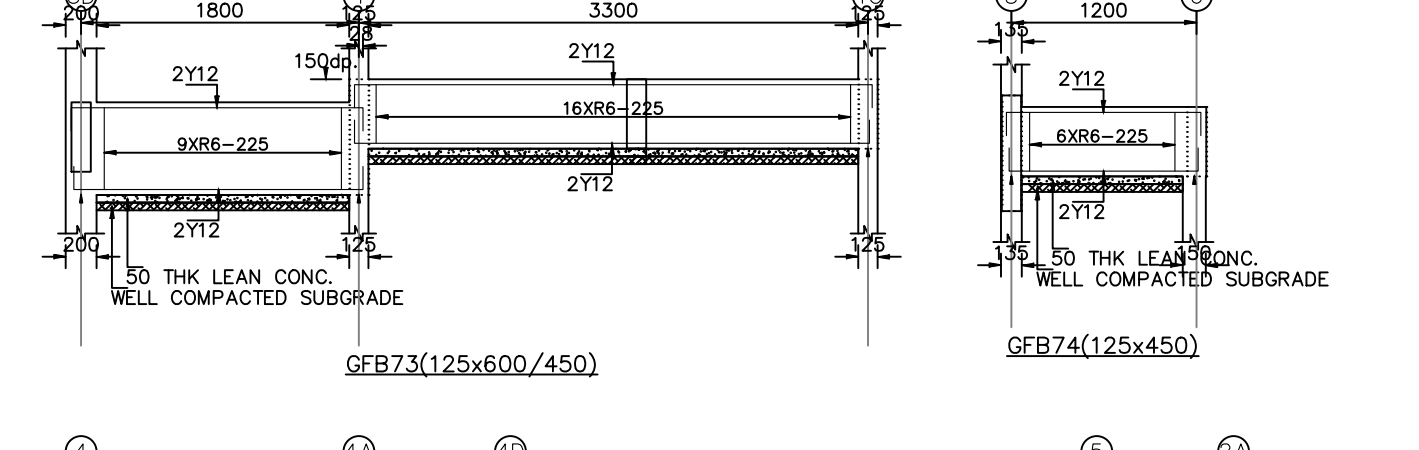
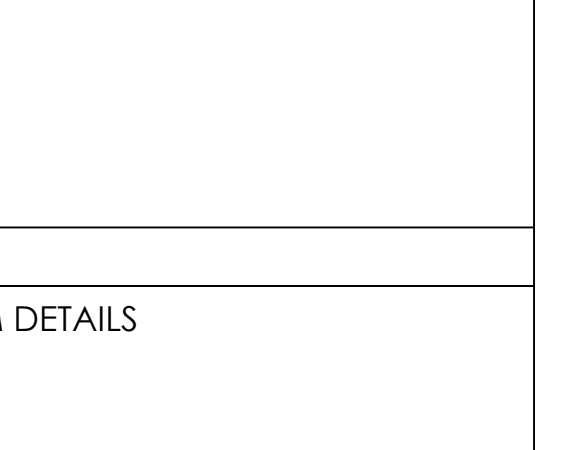
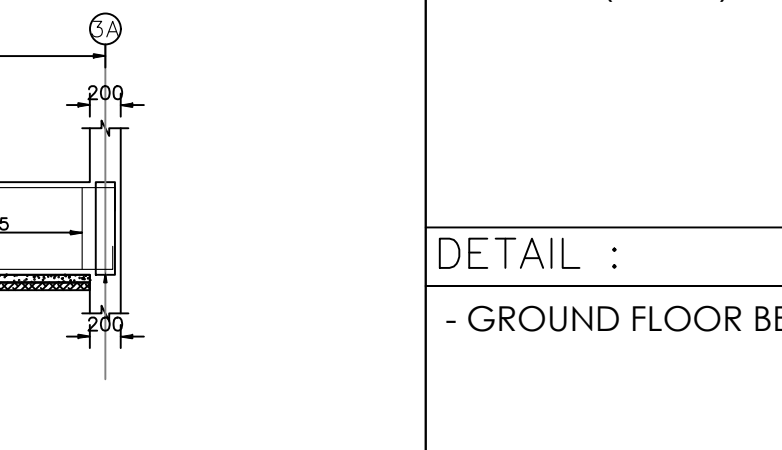
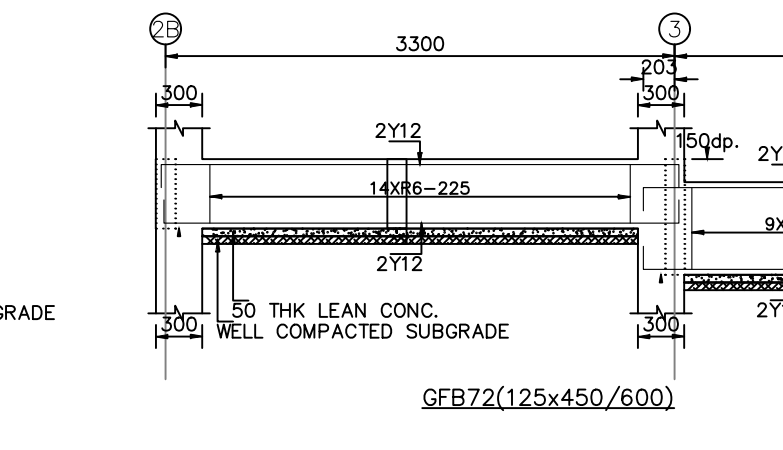
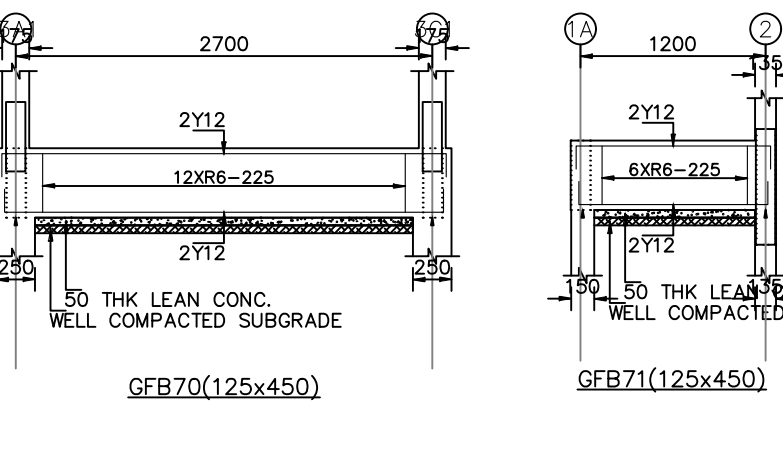
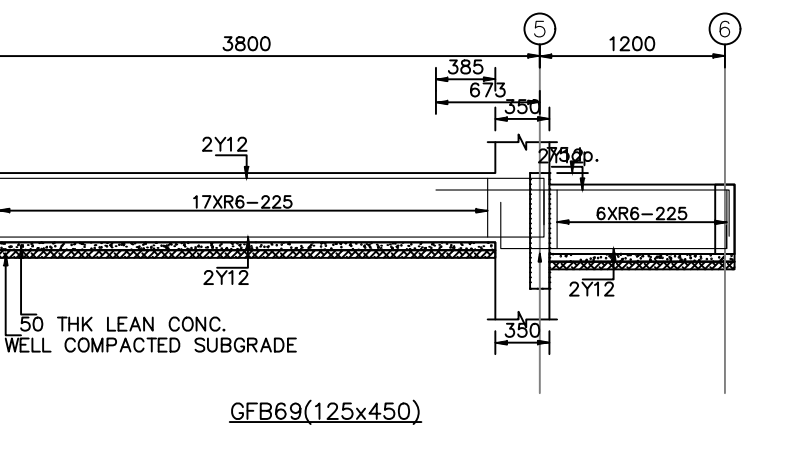
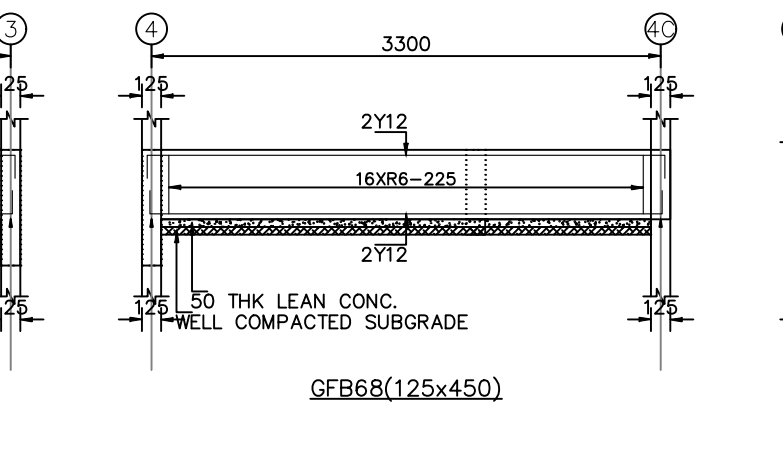
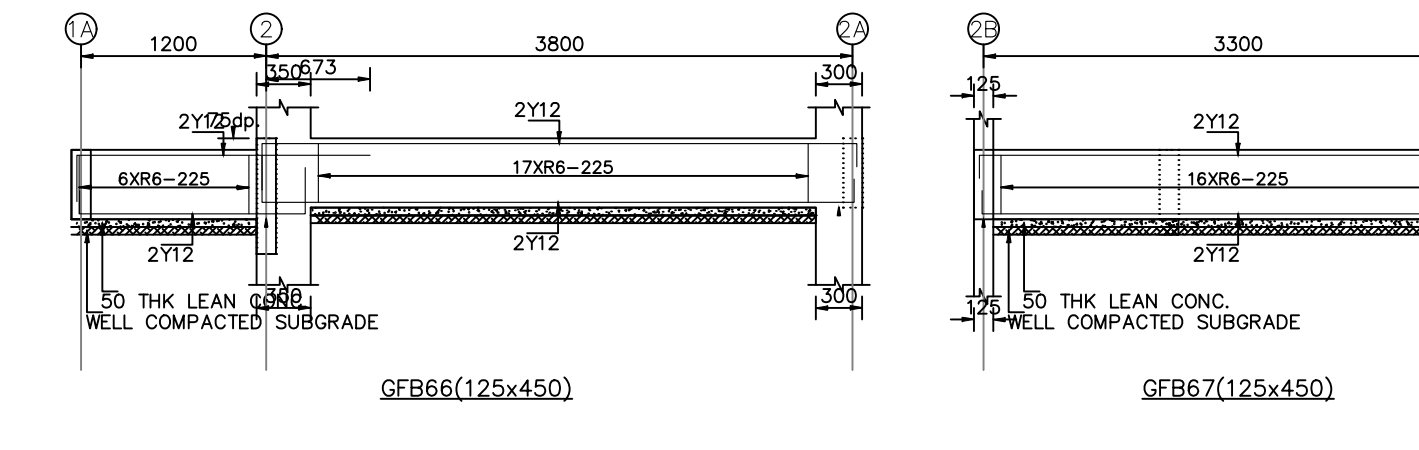
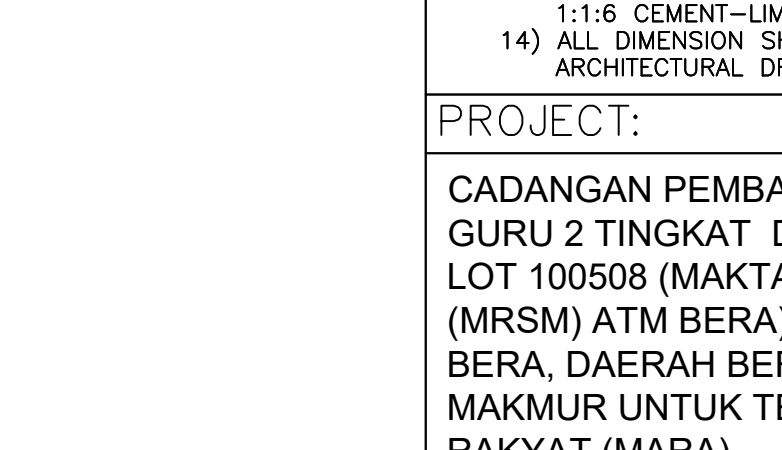
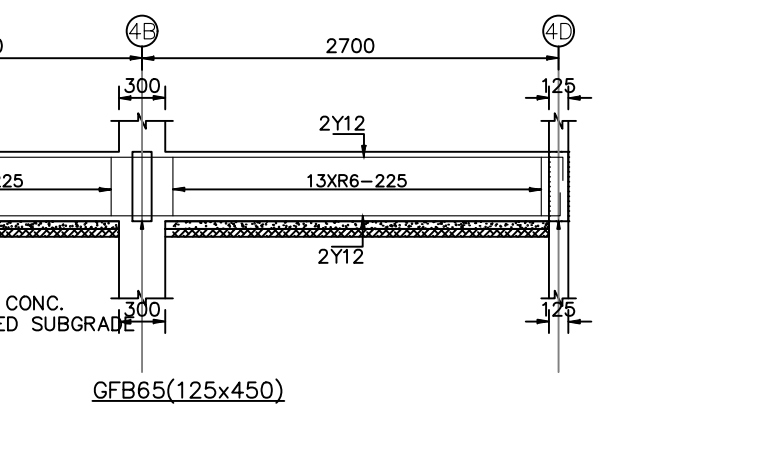
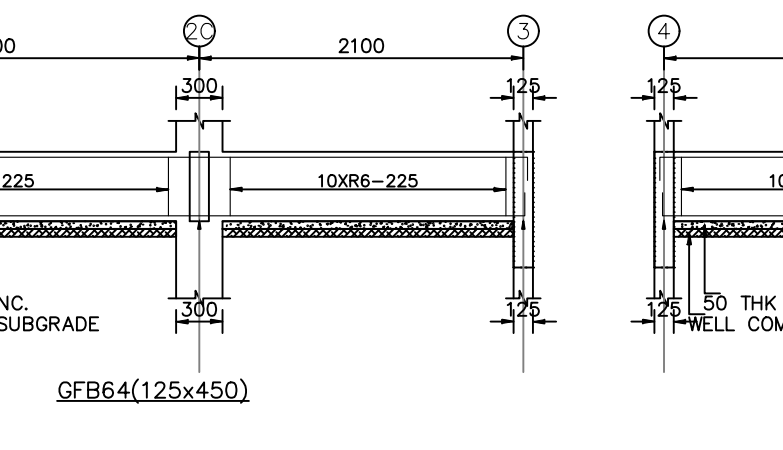
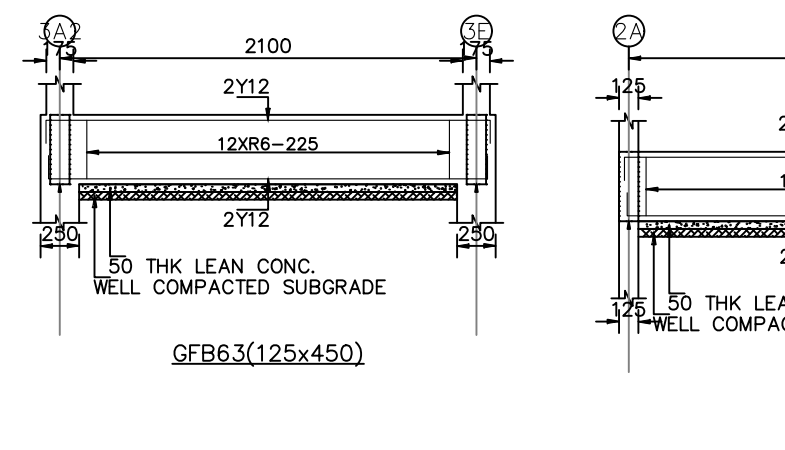
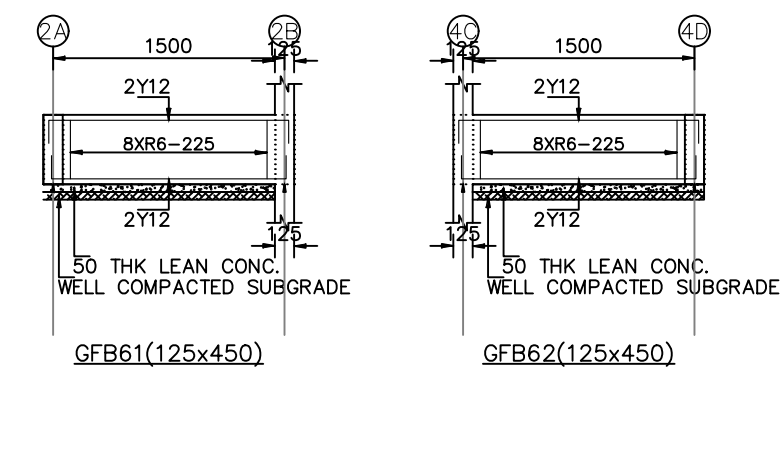
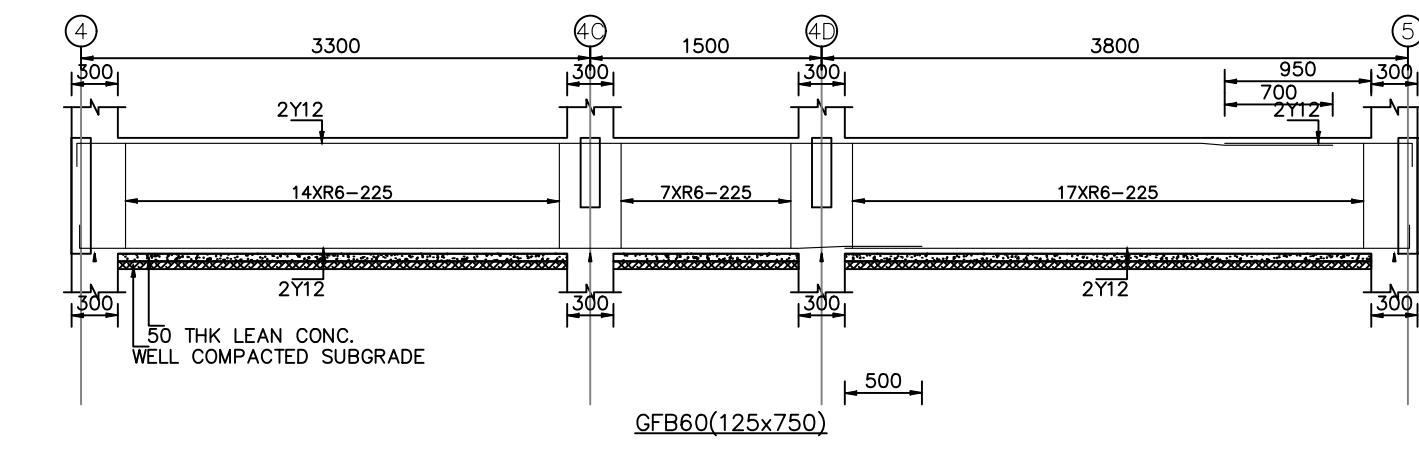
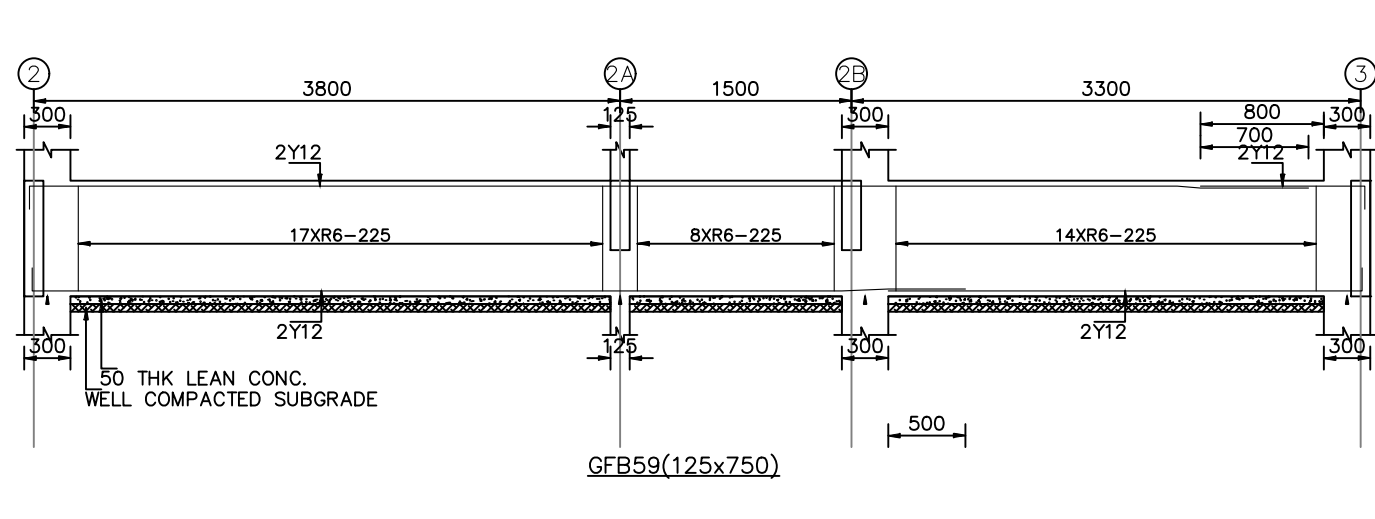
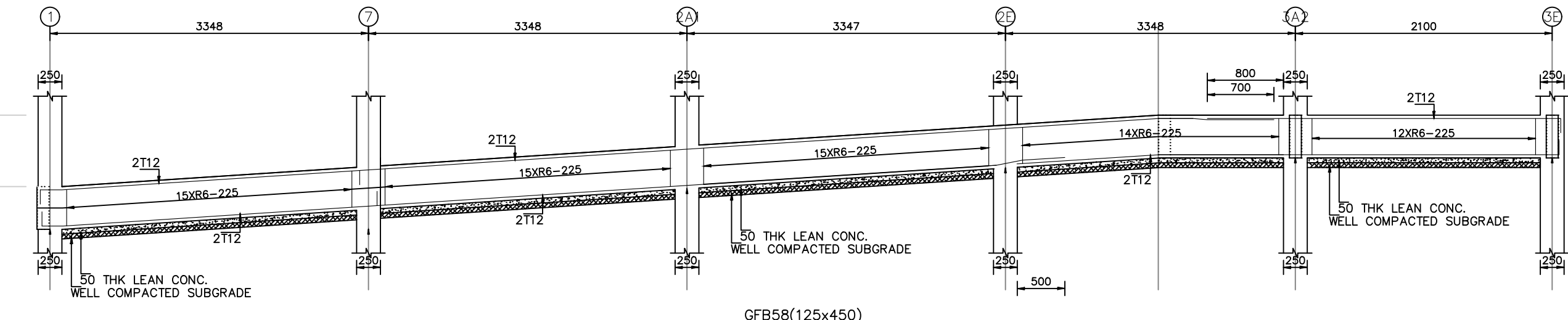
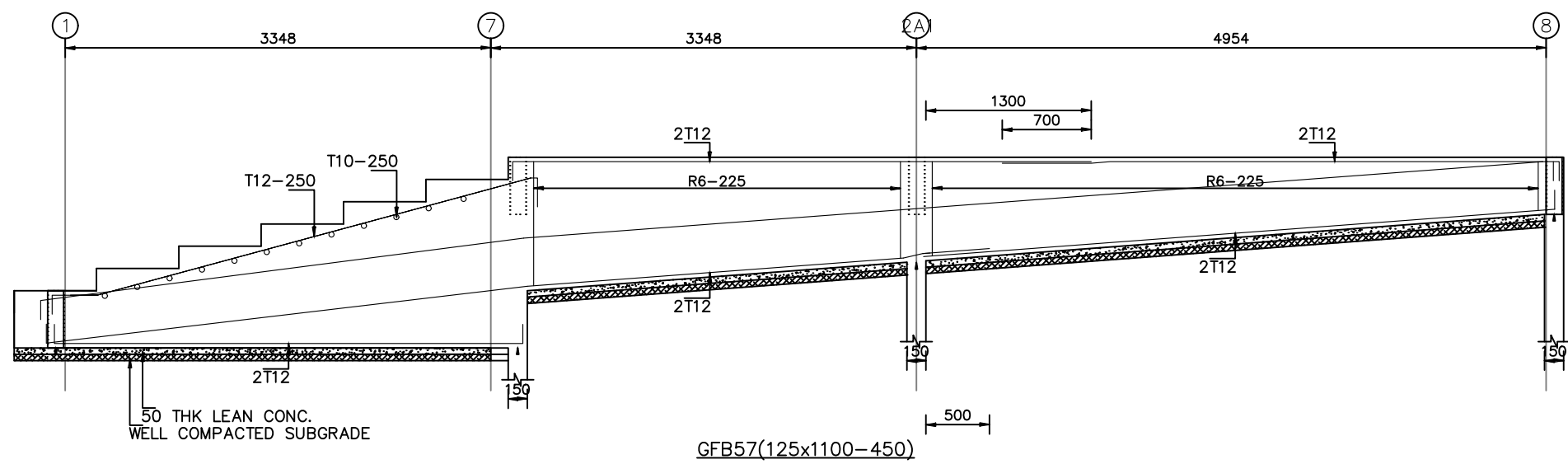
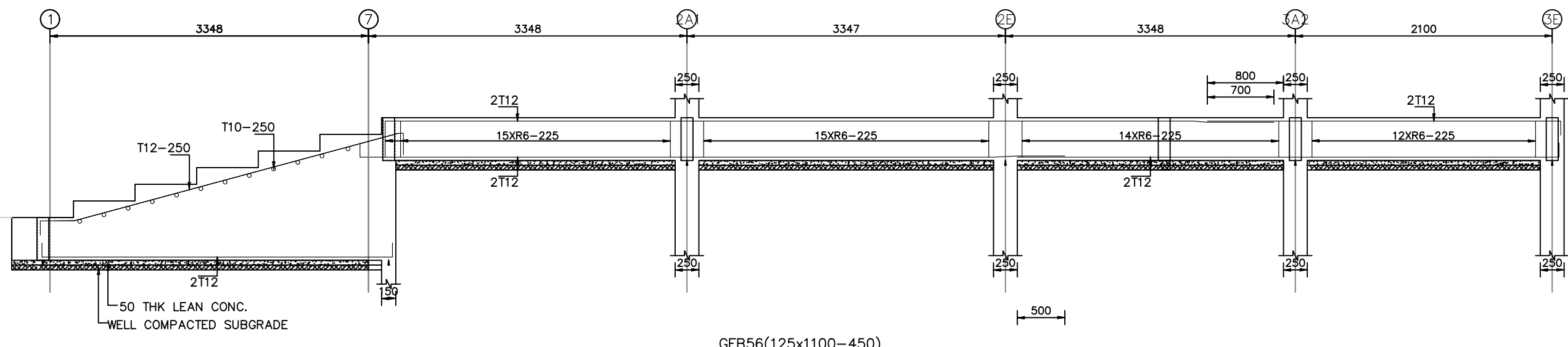
SCALE : AS SHOWN

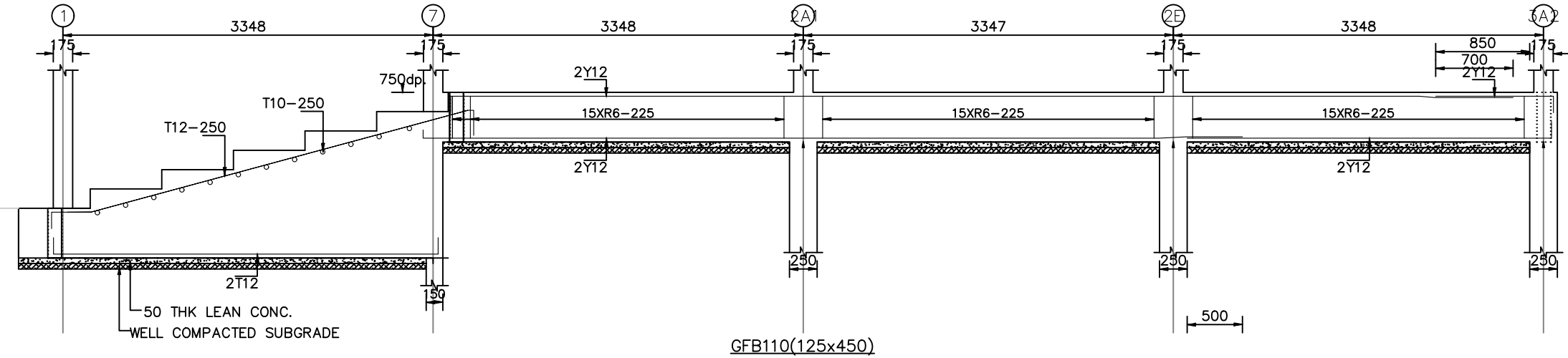
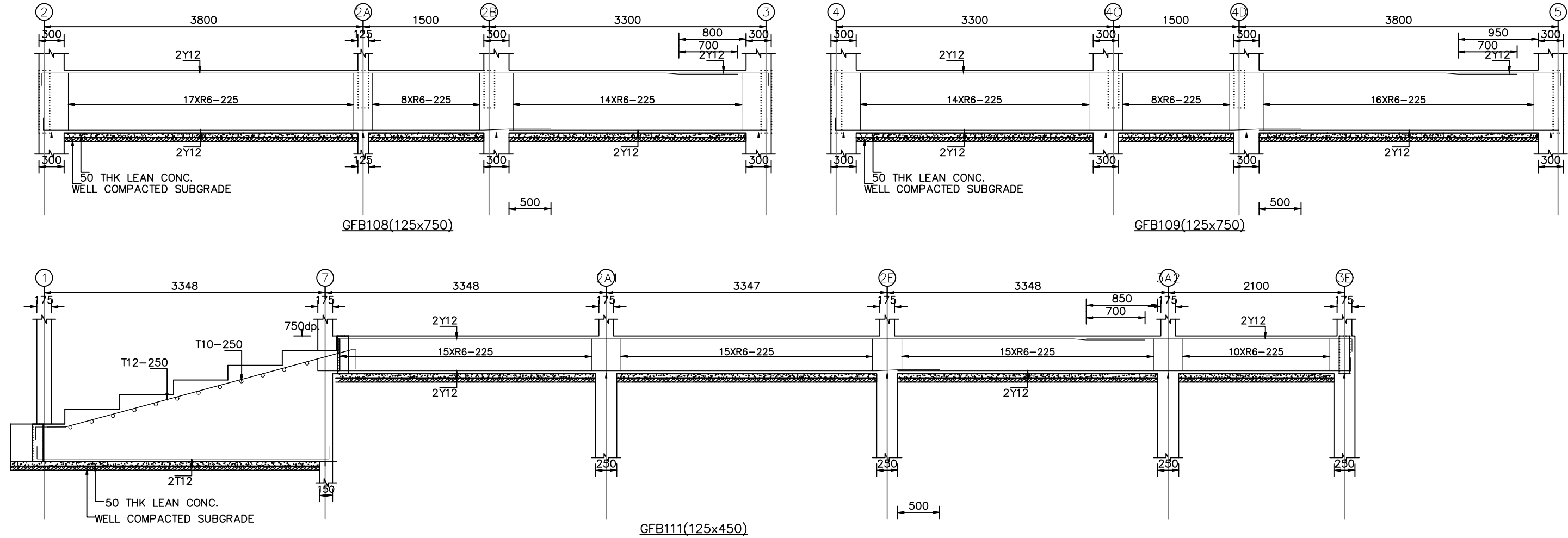
DATE : NOVEMBER 2024

DRW. NO. : 5/16

PROJECT NO.

MR / YYA 03 / 05 / 24





- NOTES:
- 1) THESE STRUCTURAL DETAILS ARE TO BE READ IN CONJUNCTION WITH ARCHITECTURAL, M&E AND OTHER RELEVANT DRAWINGS.
 - 2) ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH THE WORK.
 - 3) CONCRETE GRADE 30 SHALL BE USED (UNLESS OTHERWISE) AND COMPLIANCE TO B.S 8110 1985
 - 4) A MIN. DEPTH OF 50mm (2") LEAN CONCRETE SHALL BE PROVIDE TO ALL STRUCTURES IN CONTACT WITH THE GROUND, I.E AT SOFFIT OF FOOTINGS, PILE CAP,GROUND BEAM, GROUND SLAB, ETC. WHETHER OR NOT SHOWN IN THE DRAWINGS
 - 5) 125mm X 225mm (5" X 9") LINTOL BEAM TO BE PROVIDE OVER WINDOW/DOOR FOR SPAN UP TO 2.4 METRE (8'-0") LONG.
 - 6) ALL DIMENSIONS IN mm UNLESS SPECIFIED OTHERWISE.
 - 7) CONCRETE CLEAR COVER :
 - a) PILE CAPS/FOOTING :50mm
 - b) GROUND BEAMS :25mm
 - c) STUMPS & COLUMNS :25mm
 - d) SUPERSTRUCTURAL BEAMS :25mm
 - e) :15mm
 - 8) BRC SHALL BE USED FOR ALL SLAB REINFORCEMENT ($f_y = 460\text{N/mm}^2$)
 - 9) THE YIELD STRESSES FOR REINFORCEMENT STEEL SHALL BE AS FOLLOW:
 - HIGH YIELD STEEL (Y) : 410 N/mm^2
 - MILD YIELD STEEL (R) : 250 N/mm^2
 - : 485 N/mm^2
 - 10) ALL LOADBEARING WALLS TO BE POSITIONED CENTRALLY ON BEAMS
 - 11) FOR SETTINGOUT TO REFER ARCHITECTURE
 - 12) ALL BRICKWALL TO BE 114mm THK. EXCEPT PARTY WALL IS 225mm THK.
 - 13) ALL BRICKWORK MUST HAVE A MIN. CRUSHING STRENGTH OF 20N/mm² with 1:1:6 CEMENT-LIME-SAND MORTAR MIX.
 - 14) ALL DIMENSION SHOULD REFER TO ARCHITECTURAL DRAWING.

PROJECT:


CADANGAN PEMBANGUNAN 1 BLOK KUARTERS GURU 2 TINGKAT DI ATAS SEBAHAGIAN LOT 100508 (MAKTAB RENDAH SAINS MARA (MRSM) ATM BERA) SELUAS 0.500 EKAR, MUKIM BERA, DAERAH BERA, PAHANG DARUL MAKMUR UNTUK TETUAN MAJLIS AMANAH RAKYAT (MARA)

DETAIL :

- GROUND FLOOR BEAM DETAILS

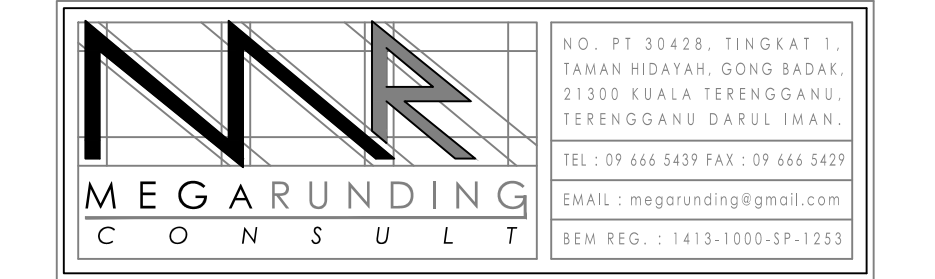
OWNER :

.....
MOHD RIDHWAN BIN ABD YAZID
Pengerah
Bahagian Binaan & Selenggaraaan
Majlis Amanah Rakyat (MARA)
NO.KP : 720704-03-5451

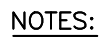
 **MAJLIS AMANAH RAKYAT (MARA)**
IBU PEJABAT MARA, NO 21, JALAN MARA,
50609, KUALA LUMPUR
TEL : 0326132000 FAX : 0326949661

ENGINEER SIGNATURE :

'I HEREBY CERTIFY THAT THESE WORKS HAS BEEN DESIGNED BY ME IN ACCORDANCE WITH SOUND ENGINEERING PRACTICE AND THAT I TAKE FULL RESPONSIBILITY FOR THE DESIGN AND PROPER PERFORMANCE OF THE SAME.'



SCALE : AS SHOWN PROJECT NO.
DATE :NOVEMBER 2024 MR / YYA 03 / 05 / 24
DRW. NO. : 6/16



- 1) THESE STRUCTURAL DETAILS ARE TO BE READ IN CONJUNCTION WITH ARCHITECTURAL, M&E AND
- 2) ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH THE WORK.
- 3) CONCRETE GRADE TO BE USED SHALL BE USED (UNLESS OTHERWISE) AND COMPLIANCE TO B.S. 8110 1985
- 4) A MIN. DEPTH OF 50mm (2") LEAN CONCRETE SHALL BE PROVIDED TO ALL BEAMS AND COLUMNS IN CONTACT WITH THE GROUND, I.E AT SOTTO OF FOOTINGS, PILE CAP, GROUND BEAM, CHAMFER SLAB, ETC. WHETHER OR NOT SHOWN IN THE DRAWINGS
- 5) 125mm X 225mm (5" X 9") LINTOL BEAM (REINF. 2Y12 TOP & BOTTOM, LINGS R6-200c/c) TO BE PROVIDED TO WINDING/DOR FOR RAMP TO 2.4 METRE (8'-0") LONG.
- 6) ALL DIMENSIONS IN mm UNLESS SPECIFIED OTHERWISE.
- 7) CONCRETE CLEAR COVER :
 - a) PILE CAPS/FOOTING :50mm
 - b) GROUND BEAMS :25mm
 - c) STUMPS & COLUMNS :25mm
 - d) SUPERSTRUCTURAL BEAMS :15mm
- 8) BRC SHALL BE USED FOR ALL SLAB REINFORCEMENT ($f_y = 460N/mm^2$)
- 9) THE YIELD STRESSES FOR REINFORCEMENT STEEL SHALL BE AS FOLLOW:
 - HIGH YIELD STEEL (Y) : 410 N/mm^2
 - MILD YIELD STEEL (R) : 250 N/mm^2
 - 485 N/mm^2
- 10) ALL LOADBEARING WALLS TO BE POSITIONED CENTRALLY ON BEAMS
- 11) FOR SETTINGOUT TO REFER ARCHITECTURE
- 12) ALL BRICKWORK TO BE 114mm THK. EXCEPT PARTY WALL IS 225mm THK.
- 13) ALL CRUSHING MUST HAVE A MIN. CRUSHING STRETHG OF 20N/mm² with 1:4 CEMENT-LIME-SAND MORTAR MIX.
- 14) ALL DIMENSION SHOULD REFER TO ARCHITECTURAL DRAWING.

PROJECT:

CADANGAN PEMBANGUNAN 1 BLOK KUARTERS
GURU 2 TINGKAT DI ATAS SEBAHAGIAN
LOT 100508 (MAKTAB RENDAH SAINS MARA
(MRSM) ATM BERA) SELUAS 0.500 EKAR, MUKIM
BERA, DAERAH BERA, PAHANG DARUL
MAKMUR UNTUK TETUAN MAJLIS AMANAH
RAKYAT (MARA)

DETAIL :

- FIRST FLOOR BEAM KEY PLAN
- FIRST FLOOR BEAM DETAILS

OWNER :

MOHD RIDHWAN BIN ABD YAZID
Pengerah

Bahagian Binaan & Selenggaraan
Majlis Amanah Rakyat (MARA)

NO.KP : 720704-03-5451



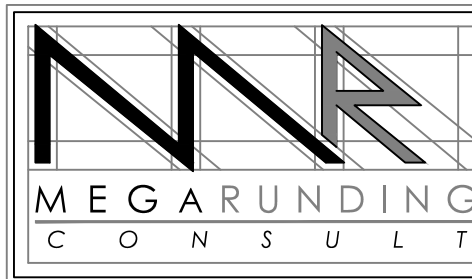
MAJLIS AMANAH RAKYAT (MARA)

IBU PEJABAT MARA, NO 21, JALAN MARA,
50000 KUALA LUMPUR

50609, KUALA LUMPUR
TEL : 0326132000 FAX : 0326949661

ENGINEER SIGNATURE :

I HEREBY CERTIFY THAT THESE WORKS HAS BEEN DESIGNED BY ME IN ACCORDANCE WITH SOUND ENGINEERING PRACTICE AND THAT I TAKE FULL RESPONSIBILITY FOR THE DESIGN AND PROPER PERFORMANCE OF THE SAME.



NO. PT 30428, TINGKAT 1,
TAMAN HIDAYAH, GONG BADAK,
21300 KUALA TERENGGANU,
TERENGGANU DARUL IMAN.

TEL : 09 666 5439 FAX : 09 666 5429

EMAIL : megorunding@gmail.com

BEM REG. : 1413-1000-SP-1253

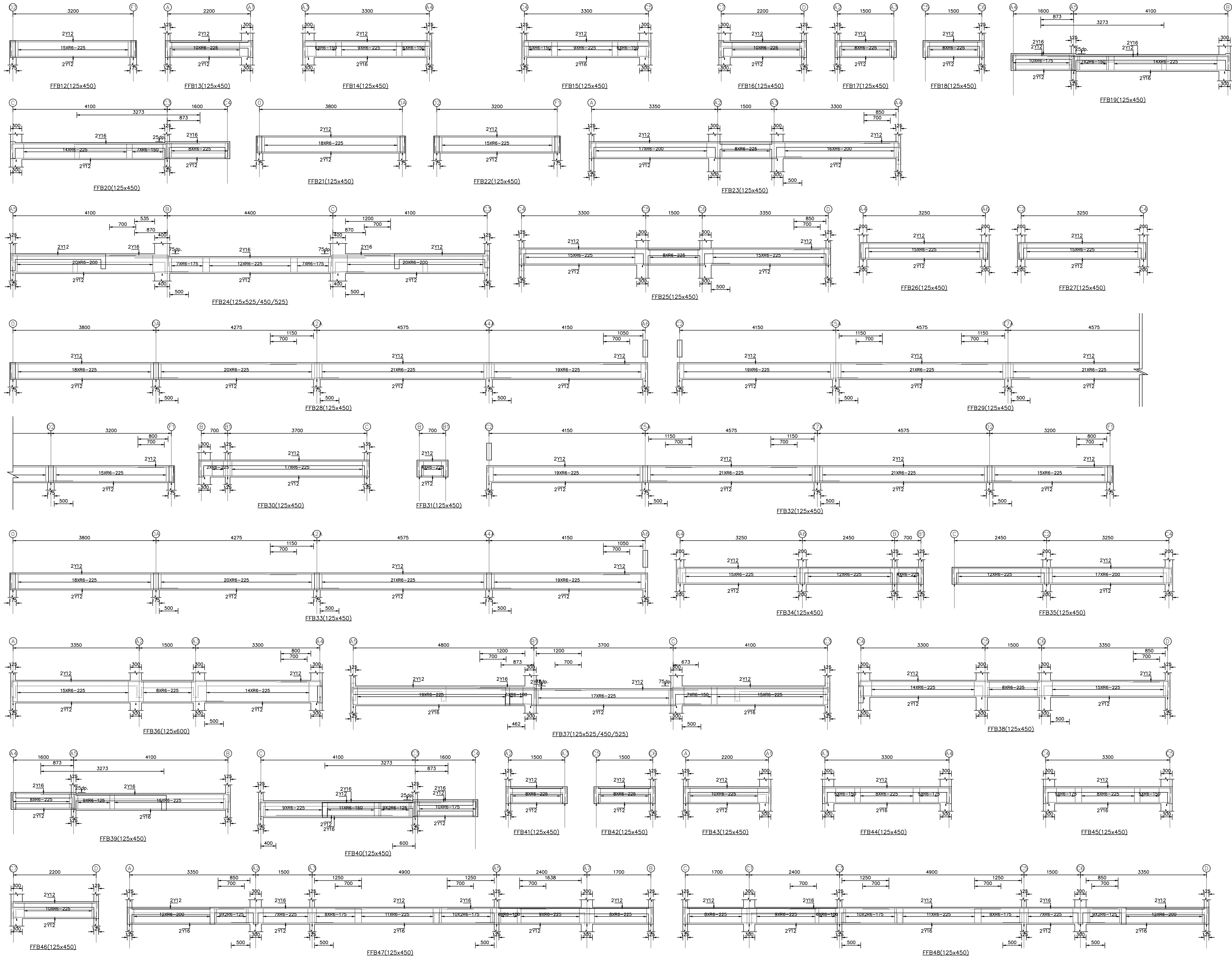
SCALE : AS SHOWN

DATE :NOVEMBER 2024

DRW. NO. : 7/16

PROJECT NO.

MR / YYA 03 / 05 / 24



- NOTES:
- 1) THESE STRUCTURAL DETAILS ARE TO BE READ IN CONJUNCTION WITH ARCHITECTURAL, M&E AND OTHER RELEVANT DRAWINGS.
 - 2) ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH THE WORK.
 - 3) CONCRETE GRADE 30 SHALL BE USED (UNLESS OTHERWISE) AND COMPLIANCE TO B.S 8110 1985
 - 4) A MIN. DEPTH OF 50mm (2") LEAN CONCRETE SHALL BE PROVIDED TO ALL STRUCTURES IN CONTACT WITH THE GROUND, I.E. AT SOFFIT OF FOOTINGS, PILE CAP, GROUND BEAM, GROUND SLAB, ETC. WHETHER OR NOT SHOWN IN THE DRAWINGS
 - 5) 125mm X 225mm (5" X 9") LINTOL BEAM (REINF. 2Y12 TOP & BOTTOM, LINKS R6-200c/c) TO BE PROVIDED OVER WINDOW/DOOR FOR SPAN UP TO 2.4 METRE (8'-0") LONG.
 - 6) ALL DIMENSIONS IN mm UNLESS SPECIFIED OTHERWISE.
 - 7) CONCRETE CLEAR COVER :
 - a) PILE CAPS/FOOTING : 50mm
 - b) GROUND BEAMS : 25mm
 - c) STUMPS & COLUMNS : 25mm
 - d) SUPERSTRUCTURAL BEAMS : 25mm
 - e) : 15mm
 - 8) BRC SHALL BE USED FOR ALL SLAB REINFORCEMENT (fy = 460N/mm²)
 - 9) THE YIELD STRESSES FOR REINFORCEMENT STEEL SHALL BE AS FOLLOW:
 - HIGH YIELD STEEL (Y) : 410 N/mm²
 - MILD YIELD STEEL (R) : 250 N/mm²
 - 10) ALL LOADBEARING WALLS TO BE POSITIONED CENTRALLY ON BEAMS
 - 11) FOR SETTINGOUT TO REFER ARCHITECTURE
 - 12) ALL BRICKWALL TO BE 114mm THK. EXCEPT PARTY WALL IS 225mm THK.
 - 13) ALL BRICKWORK MUST HAVE A MIN. CRUSHING STRENGTH OF 20N/mm² with 1:1:6 CEMENT-LIME-SAND MORTAR MIX.
 - 14) ALL DIMENSION SHOULD REFER TO ARCHITECTURAL DRAWING.

PROJECT:

CADANGAN PEMBANGUNAN 1 BLOK KUARTERS GURU 2 TINGKAT DI ATAS SEBAHAGIAN LOT 100508 (MAKTAB RENDAH SAINS MARA (MRSM) ATM BERA) SELUAS 0.500 EKAR, MUKIM BERA, DAERAH BERA, PAHANG DARUL MAKMUR UNTUK TUTUAN MAJLIS AMANAH RAKYAT (MARA)

DETAIL :

- FIRST FLOOR BEAM DETAILS

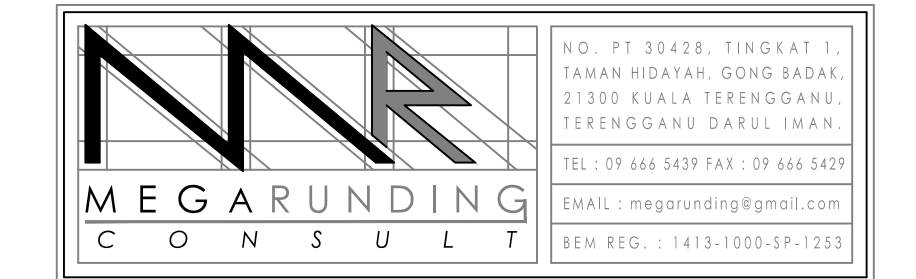
OWNER :

MOHD RIDHWAN BIN ABD YAZID
Pengerah
Bahagian Binaan & Selenggaraan
Majlis Amanah Rakyat (MARA)
NO.KP : 720704-03-5451

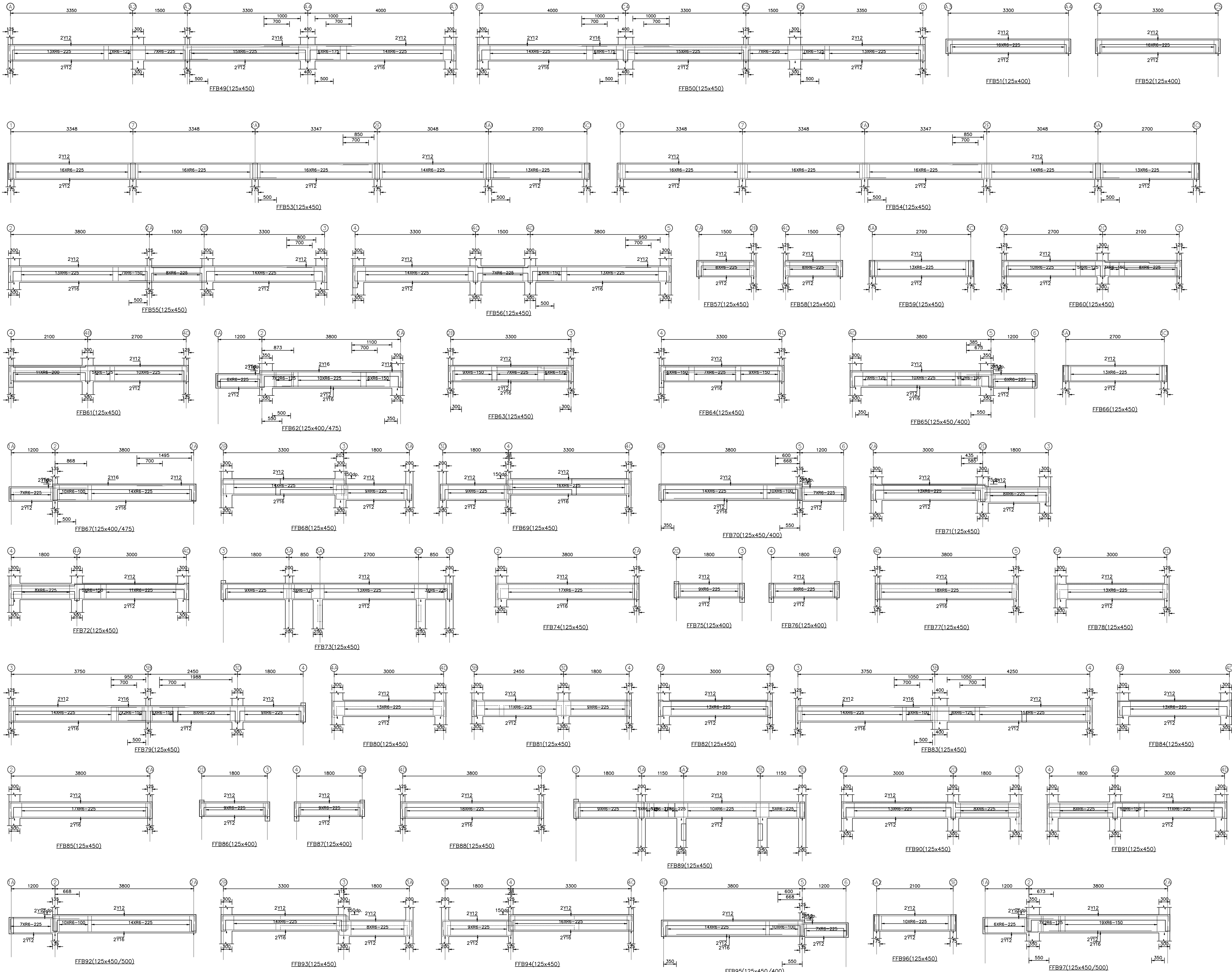
MAJLIS AMANAH RAKYAT (MARA)
IBU PEJABAT MARA, NO 21, JALAN MARA,
50609, KUALA LUMPUR
TEL : 0326132000 FAX : 0326949661

ENGINEER SIGNATURE :

I HEREBY CERTIFY THAT THESE WORKS HAS BEEN DESIGNED BY ME IN ACCORDANCE WITH SOUND ENGINEERING PRACTICE AND THAT I TAKE FULL RESPONSIBILITY FOR THE DESIGN AND PROPER PERFORMANCE OF THE SAME.



SCALE : AS SHOWN PROJECT NO.
DATE : NOVEMBER 2024 MR / YYA 03 / 05 / 24
DRW. NO. : 8/16



- NOTES:
- 1) THESE STRUCTURAL DETAILS ARE TO BE READ IN CONJUNCTION WITH ARCHITECTURAL, M&E AND OTHER RELEVANT DRAWINGS.
 - 2) ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH THE WORK.
 - 3) CONCRETE GRADE SO SHALL BE USED (UNLESS OTHERWISE) AND COMPLIANCE TO B.S 8110 1985
 - 4) A MIN. DEPTH OF 50mm (2") LEAN CONCRETE SHALL BE PROVIDED TO ALL STRUCTURES IN CONTACT WITH THE GROUND, I.E. AT SOFFIT OF FOOTINGS, PILE CAP, GROUND BEAM, GROUND SLAB, ETC. WHETHER OR NOT SHOWN IN THE DRAWINGS
 - 5) 125mm X 225mm (5" X 9") LINTOL BEAM (REINF. 2Y12 TOP & BOTTOM, LINKS R6-200c/c) TO BE PROVIDED OVER WINDOW/DOOR FOR SPAN UP TO 2.4 METRE (8'-0") LONG.
 - 6) ALL DIMENSIONS IN mm UNLESS SPECIFIED OTHERWISE.
 - 7) CONCRETE CLEAR COVER :
 - a) PILE CAPS/FOOTING :50mm
 - b) GROUND BEAMS :25mm
 - c) STUMPS & COLUMNS :25mm
 - d) SUPERSTRUCTURAL BEAMS :15mm
 - 8) BRC SHALL BE USED FOR ALL SLAB REINFORCEMENT ($f_y = 460N/mm^2$)
 - 9) THE YIELD STRESSES FOR REINFORCEMENT STEEL SHALL BE AS FOLLOW:
 - HIGH YIELD STEEL (Y) : 410 N/mm²
 - MILD YIELD STEEL (R) : 250 N/mm²
 - 10) ALL LOADBEARING WALLS TO BE POSITIONED CENTRALLY ON BEAMS
 - 11) FOR SETTINGOUT TO REFER ARCHITECTURE
 - 12) ALL BRICKWALL TO BE 114mm THK. EXCEPT PARTY WALL IS 225mm THK.
 - 13) ALL BRICKWORK MUST HAVE A MIN. CRUSHING STRENGTH OF 20N/mm² WITH 1:1:6 CEMENT-LIME-SAND MORTAR MIX.
 - 14) ALL DIMENSION SHOULD REFER TO ARCHITECTURAL DRAWING.

PROJECT:

CADANGAN PEMBANGUNAN 1 BLOK KUARTERS GURU 2 TINGKAT DI ATAS SEBAHAGIAN LOT 100508 (MAKTAB RENDAH SAINS MARA (MRSM) ATM BERA) SELUAS 0.500 EKAR, MUKIM BERA, DAERAH BERA, PAHANG DARUL MAKMUR UNTUK TETUAN MAJLIS AMANAH RAKYAT (MARA)

DETAIL :

- FIRST FLOOR BEAM DETAILS

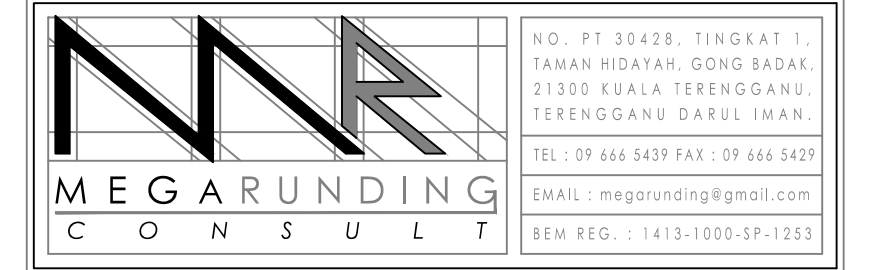
OWNER :

MOHD RIDHWAN BIN ABD YAZID
Pengerah
Bahagian Binaan & Selenggaraan
Majlis Amanah Rakyat (MARA)
NO.KP : 720704-03-5451

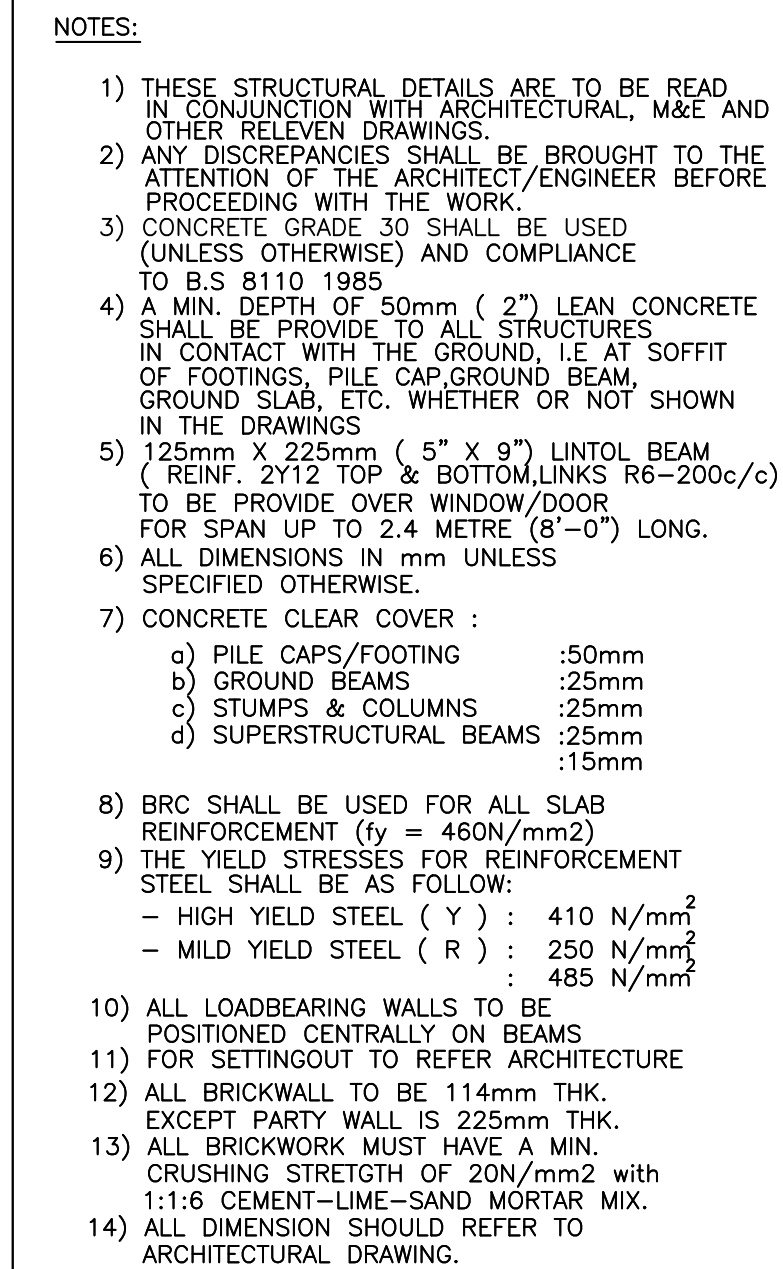
MAJLIS AMANAH RAKYAT (MARA)
IBU PEJABAT MARA, NO 21, JALAN MARA,
50609, KUALA LUMPUR
TEL : 0326132000 FAX : 0326949661

ENGINEER SIGNATURE :

I HEREBY CERTIFY THAT THESE WORKS HAS BEEN DESIGNED BY ME IN ACCORDANCE WITH SOUND ENGINEERING PRACTICE AND THAT I TAKE FULL RESPONSIBILITY FOR THE DESIGN AND PROPER PERFORMANCE OF THE SAME.



SCALE : AS SHOWN PROJECT NO.
DATE : NOVEMBER 2024 MR / YYA 03 / 05 / 24
DRW. NO. : 9/16



CADANGAN PEMBANGUNAN 1 BLOK KUARTERS
GURU 2 TINGKAT DI ATAS SEBAHAGIAN
LOT 100508 (MAKTAB RENDAH SAINS MARA
(MRSM) ATM BERA) SELUAS 0.500 EKAR, MUKIM
BERA, DAERAH BERA, PAHANG DARUL
MAKMUR UNTUK TETUAN MAJLIS AMANAH
RAKYAT (MARA)

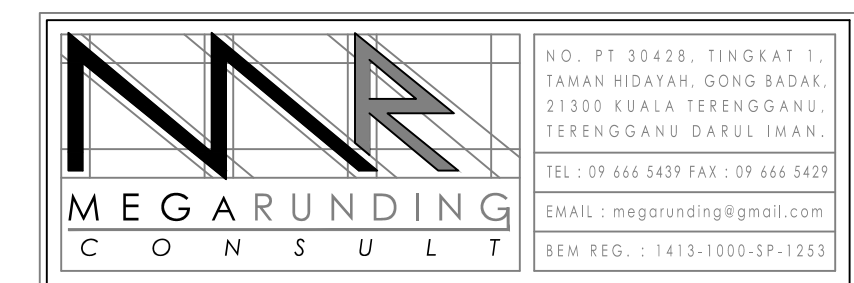
- FIRST FLOOR SLAB KEY PLAN(BOTTOM)

MOHD RIDHWAN BIN ABD YAZID
Pengerah:
Bahagian Binaan & Selenggaraaan
Majlis Amanah Rakyat (MARA)
NO.KP : 720704-03-5451

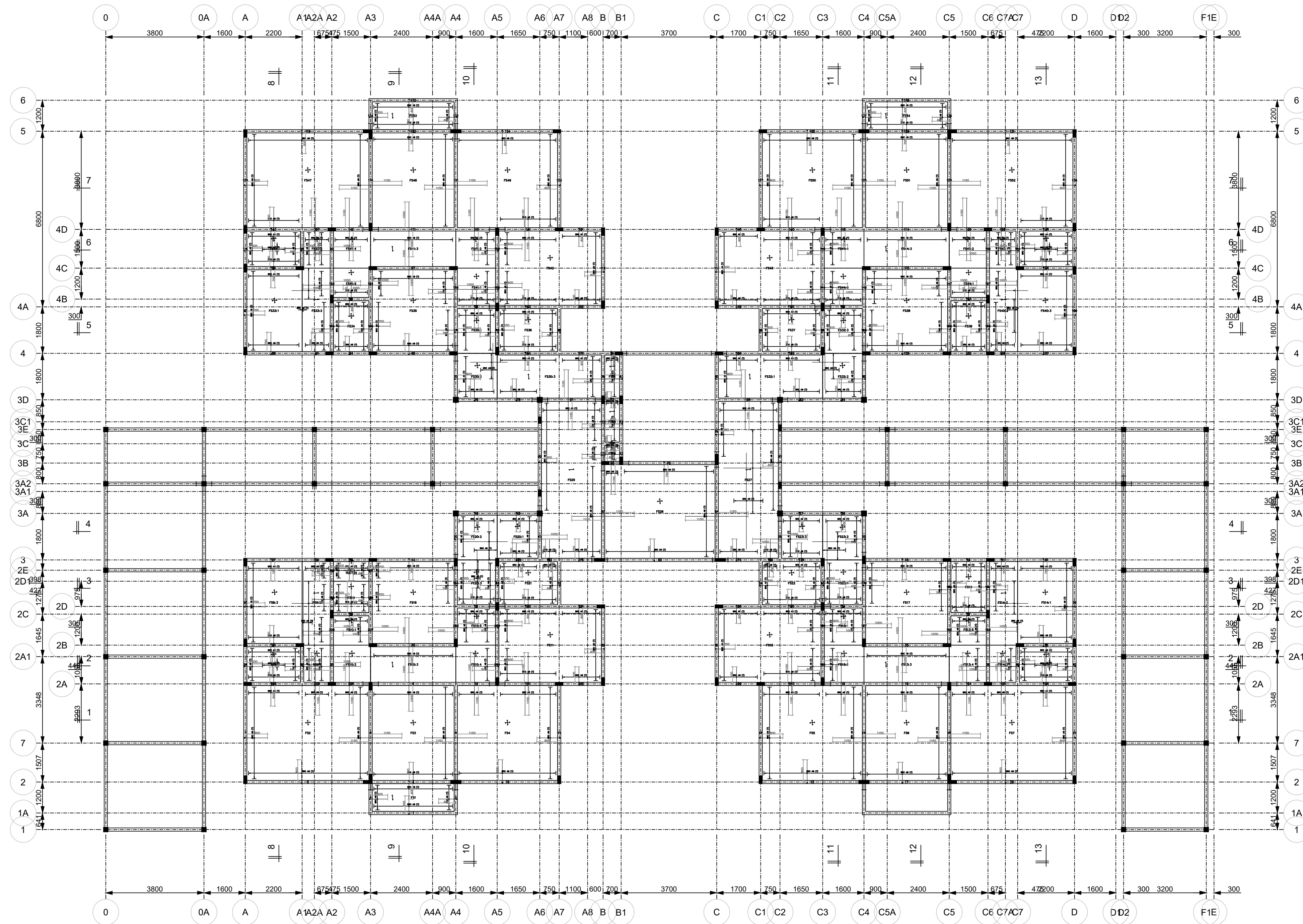


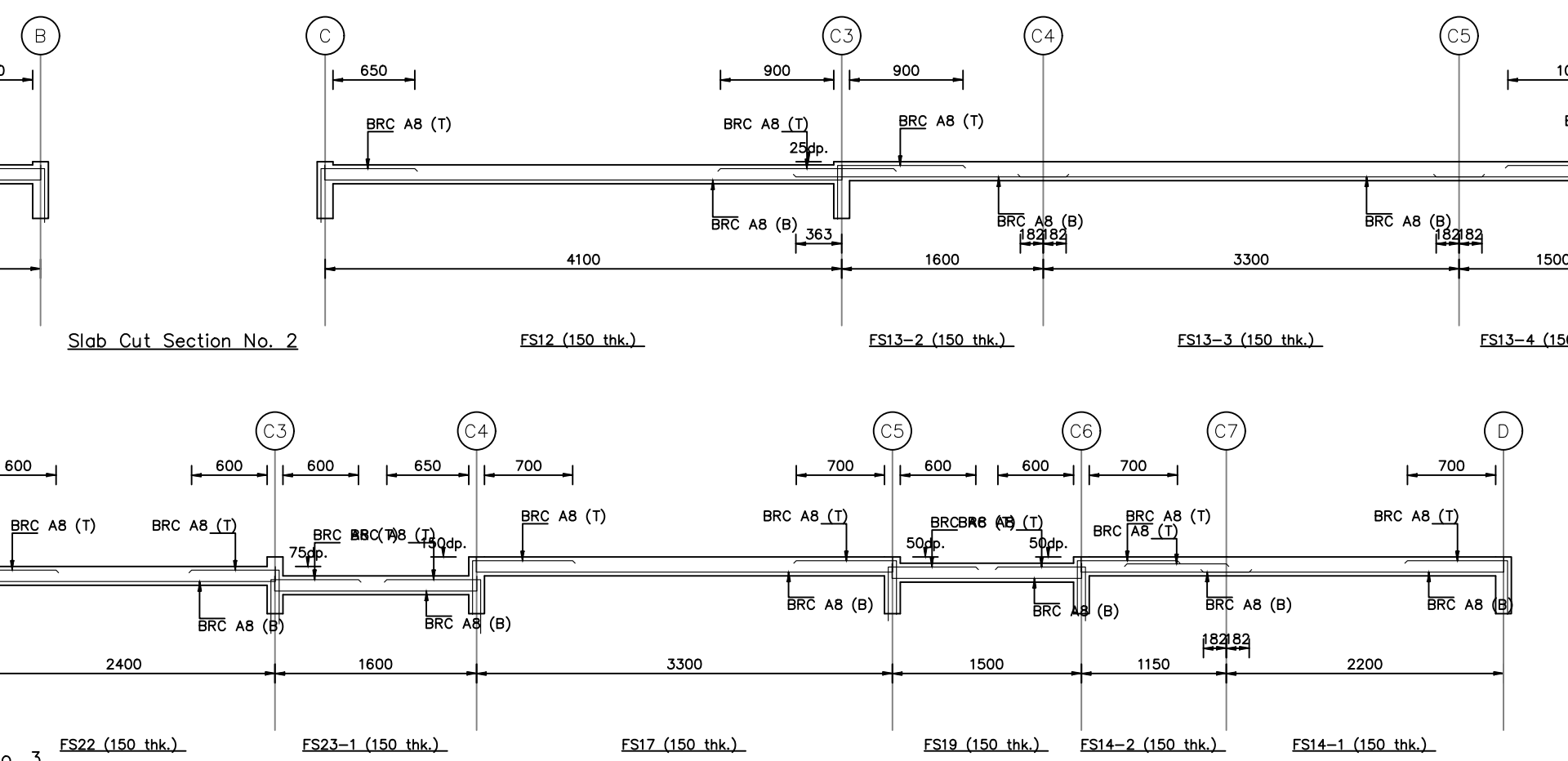
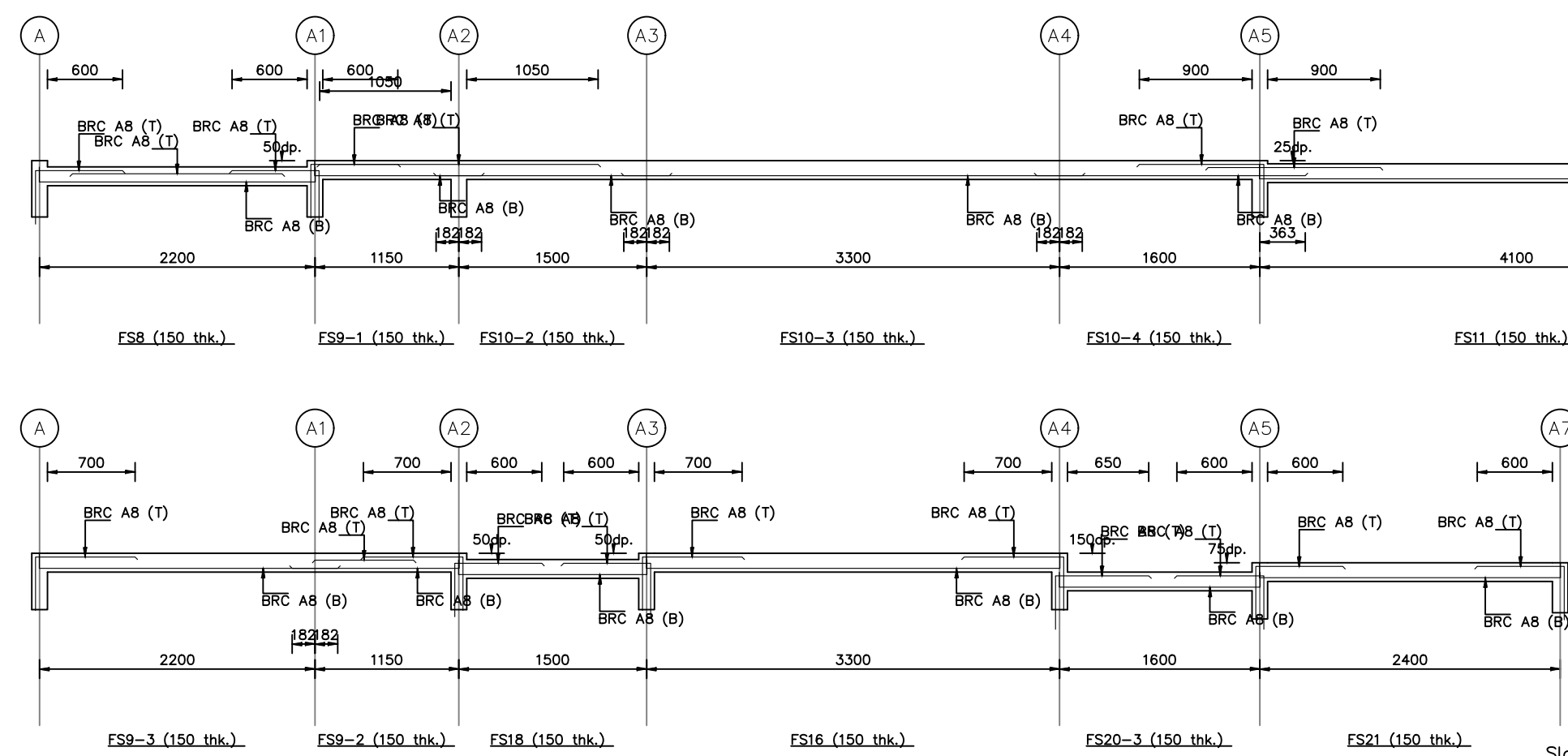
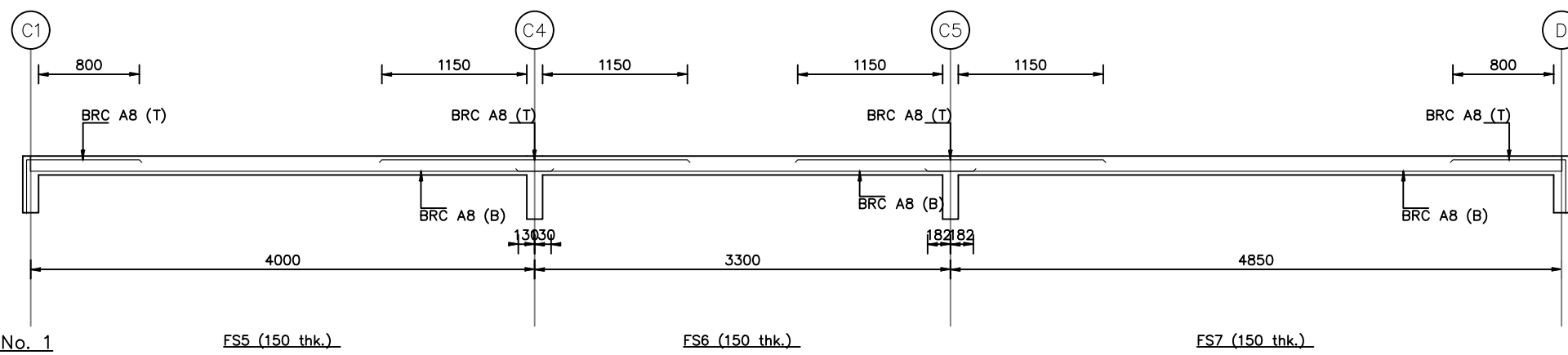
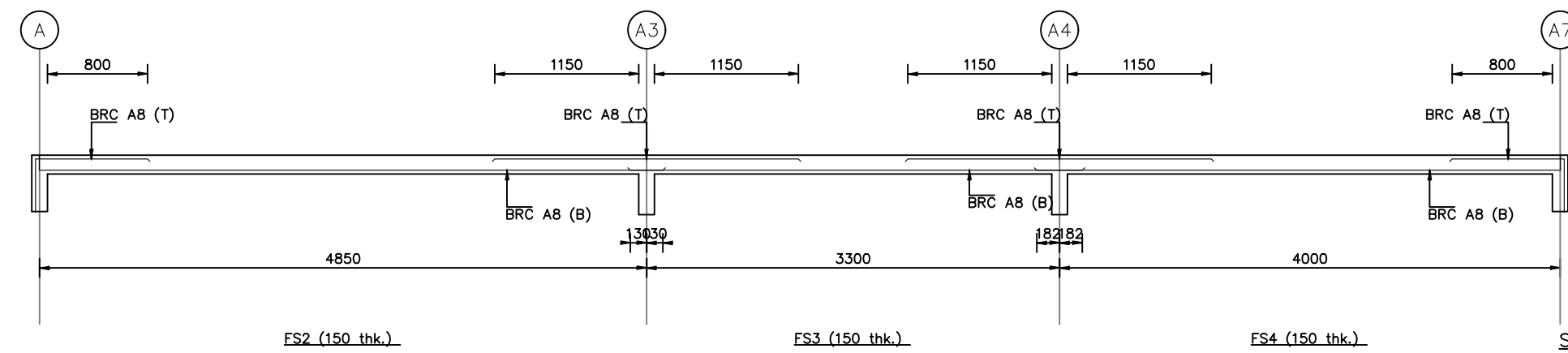
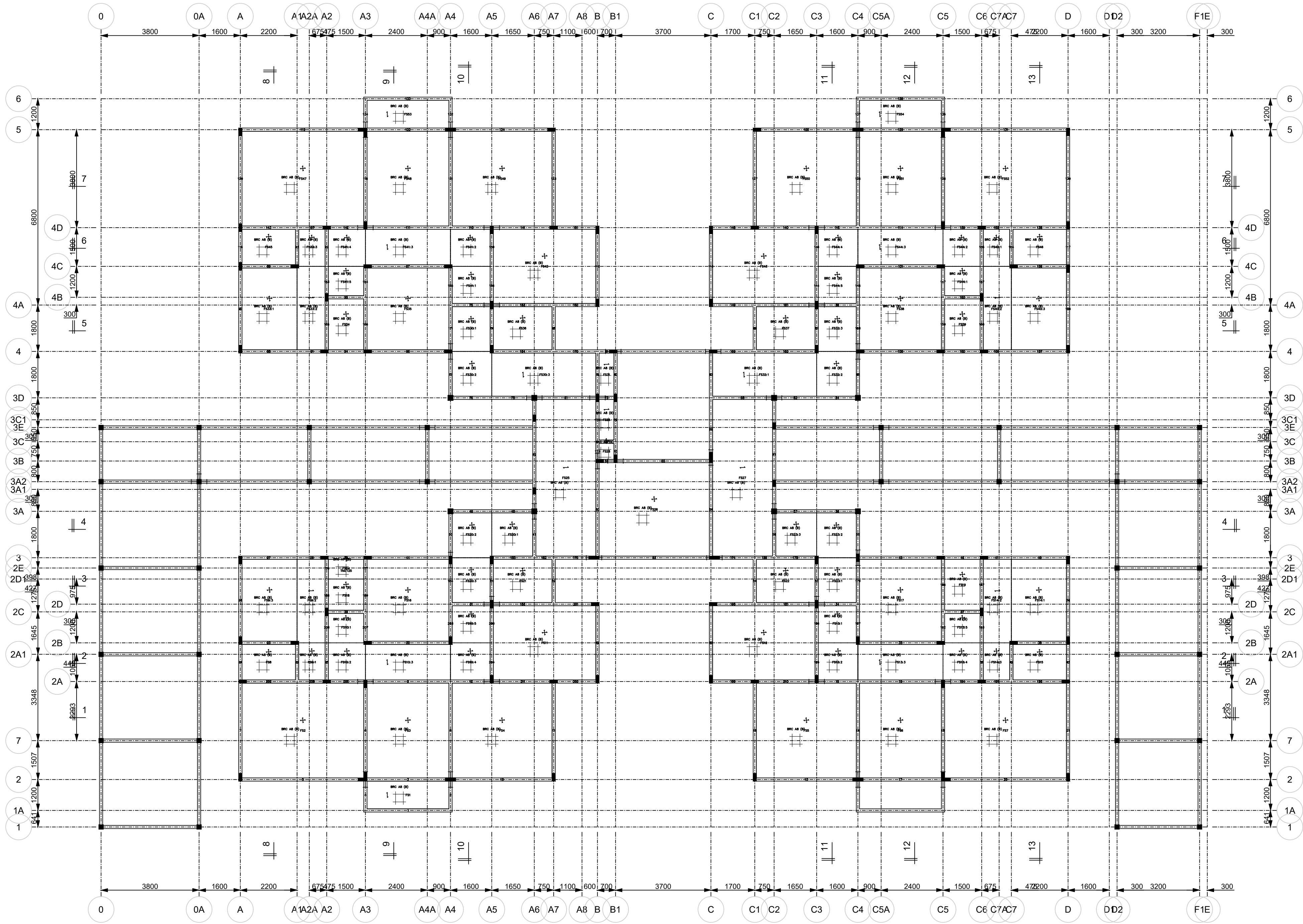
MAJLIS AMANAH RAKYAT (MARA)
IBU PEJABAT MARA, NO 21, JALAN MARA,
50609, KUALA LUMPUR
TEL : 0326132000 FAX : 0326949661

I HEREBY CERTIFY THAT THESE WORKS HAS BEEN DESIGNED BY ME IN ACCORDANCE WITH SOUND ENGINEERING PRACTICE AND THAT I TAKE FULL RESPONSIBILITY FOR THE DESIGN AND PROPER PERFORMANCE OF THE SAME.



SCALE : AS SHOWN	PROJECT NO.
DATE :NOVEMBER 2024	MR / YYA 03 / 05 / 24
DRW. NO. : 10/16	





NOTES:

- 1) THESE STRUCTURAL DETAILS ARE TO BE READ IN CONJUNCTION WITH ARCHITECTURAL, M&E AND OTHER RELEVANT DRAWINGS.
- 2) ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH THE WORK.
- 3) CONCRETE GRADE 30 SHALL BE USED (UNLESS OTHERWISE) AND COMPLIANCE TO B.S 8110 1985
- 4) A MIN. DEPTH OF 50mm (2") LEAN CONCRETE SHALL BE PROVIDED TO ALL STRUCTURES IN CONTACT WITH THE GROUND, I.E AT SOFFIT OF FOOTINGS, PILE CAP, GROUND BEAM, GROUND SLAB, ETC. WHETHER OR NOT SHOWN IN THE DRAWINGS
- 5) 125mm X 225mm (5" X 9") LINTOL BEAM (REINF. 2Y12 TOP & BOTTOM, LINKS R6-200c/c) TO BE PROVIDED OVER WINDOW/DOOR FOR SPAN UP TO 2.4 METRE (8'-0") LONG.
- 6) ALL DIMENSIONS IN mm UNLESS SPECIFIED OTHERWISE.
- 7) CONCRETE CLEAR COVER :
 - a) PILE CAPS/FOOTING :50mm
 - b) GROUND BEAMS :25mm
 - c) STUMPS & COLUMNS :25mm
 - d) SUPERSTRUCTURAL BEAMS :15mm
- 8) BRC SHALL BE USED FOR ALL SLAB REINFORCEMENT (fy = 460N/mm²)
- 9) THE YIELD STRESSES FOR REINFORCEMENT STEEL SHALL BE AS FOLLOW:
 - HIGH YIELD STEEL (Y) : 410 N/mm²
 - MILD YIELD STEEL (R) : 250 N/mm²
- 10) ALL LOADBEARING WALLS TO BE POSITIONED CENTRALLY ON BEAMS
- 11) FOR SETTINGOUT TO REFER ARCHITECTURE
- 12) ALL BRICKWALL TO BE 114mm THK. EXCEPT PARTY WALL IS 225mm THK.
- 13) ALL BRICKWORK MUST HAVE A MIN. CRUSHING STRENGTH OF 20N/mm² with 1:1:6 CEMENT-LIME-SAND MORTAR MIX.
- 14) ALL DIMENSION SHOULD REFER TO ARCHITECTURAL DRAWING.

PROJECT:

CADANGAN PEMBANGUNAN 1 BLOK KUARTERS GURU 2 TINGKAT DI ATAS SEBAHAGIAN LOT 100508 (MAKTAB RENDAH SAINS MARA (MRSM) ATM BERA) SELUAS 0.500 EKAR, MUKIM BERA, DAERAH BERA, PAHANG DARUL MAKMUR UNTUK TETUAN MAJLIS AMANAH RAKYAT (MARA)

DETAIL :

- FIRST FLOOR SLAB KEY PLAN(TOP)

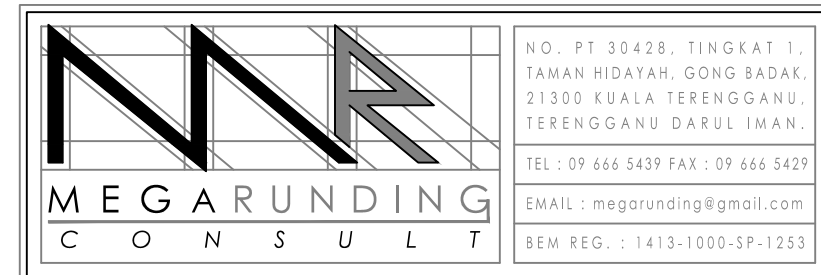
OWNER :

MOHD RIDHWAN BIN ABD YAZID
Pengerah
Bahagian Binaan & Selenggaraan
Majlis Amanah Rakyat (MARA)
NO.KP : 720704-03-5451

MAJLIS AMANAH RAKYAT (MARA)
IBU PEJABAT MARA, NO 21, JALAN MARA,
50609, KUALA LUMPUR
TEL : 0326132000 FAX : 0326949661

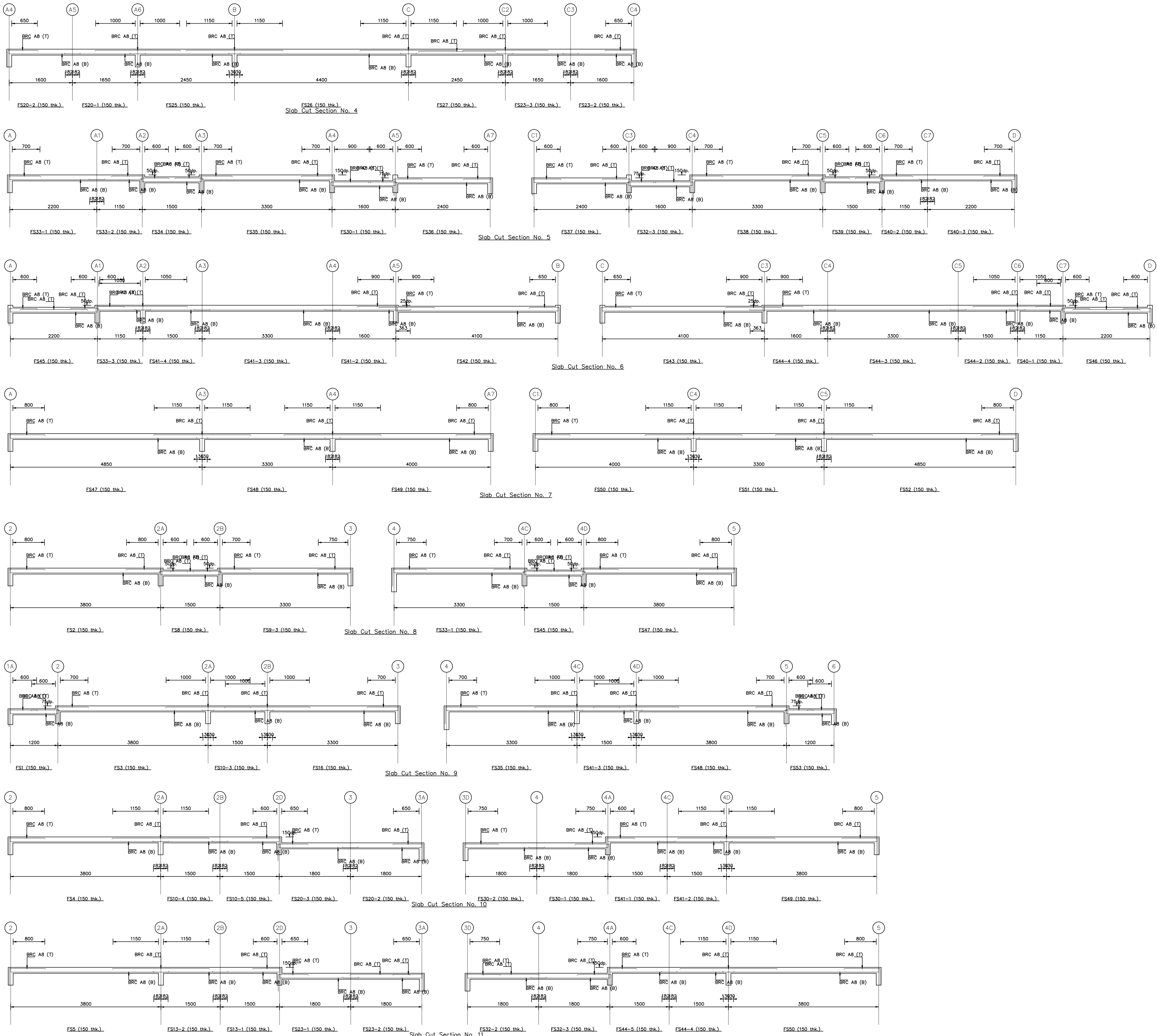
ENGINEER SIGNATURE :

I HEREBY CERTIFY THAT THESE WORKS HAS BEEN DESIGNED BY ME IN ACCORDANCE WITH SOUND ENGINEERING PRACTICE AND THAT I TAKE FULL RESPONSIBILITY FOR THE DESIGN AND PROPER PERFORMANCE OF THE SAME.



SCALE : AS SHOWN
DATE : NOVEMBER 2024
DRW. NO. : 11/16

PROJECT NO.
MR / YYA 03 / 05 / 24



- NOTES:
- 1) THESE STRUCTURAL DETAILS ARE TO BE READ IN CONJUNCTION WITH ARCHITECTURAL, M&E AND OTHER RELEVANT DRAWINGS.
 - 2) ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH THE WORK.
 - 3) CONCRETE GRADE 30 SHALL BE USED (UNLESS OTHERWISE) AND COMPLIANCE TO B.S 8110 1985
 - 4) A MIN. DEPTH OF 50mm (2") LEAN CONCRETE SHALL BE PROVIDED TO ALL STRUCTURES IN CONTACT WITH THE GROUND, I.E. AT SOFFIT OF FOOTINGS, PILE CAP, GROUND BEAM, GROUND SLAB, ETC. WHETHER OR NOT SHOWN IN THE DRAWINGS
 - 5) 125mm X 225mm (5" X 9") LINTOL BEAM (REINF. 2Y12 TOP & BOTTOM, LINKS R6-200c/c) TO BE PROVIDED OVER WINDOW/DOOR FOR SPAN UP TO 2.4 METRE (8'-0") LONG.
 - 6) ALL DIMENSIONS IN mm UNLESS SPECIFIED OTHERWISE.
 - 7) CONCRETE CLEAR COVER :
 - a) PILE CAPS/FOOTING : 50mm
 - b) GROUND BEAMS : 25mm
 - c) STUMPS & COLUMNS : 25mm
 - d) SUPERSTRUCTURAL BEAMS : 25mm
 - e) : 15mm
 - 8) BRC SHALL BE USED FOR ALL SLAB REINFORCEMENT (fy = 460N/mm²)
 - 9) THE YIELD STRESSES FOR REINFORCEMENT STEEL SHALL BE AS FOLLOW:
 - HIGH YIELD STEEL (Y) : 410 N/mm²
 - MILD YIELD STEEL (R) : 250 N/mm²
 - : 485 N/mm²
 - 10) ALL LOADBearing WALLS TO BE POSITIONED CENTRALLY ON BEAMS
 - 11) FOR SETTING OUT TO REFER ARCHITECTURE
 - 12) ALL BRICK WALL TO BE 114mm THK. EXCEPT PARTY WALL IS 225mm THK.
 - 13) ALL BRICKWORK MUST HAVE A MIN. CRUSHING STRENGTH OF 20N/mm² with 1:1:6 CEMENT-LIME-SAND MORTAR MIX.
 - 14) ALL DIMENSION SHOULD REFER TO ARCHITECTURAL DRAWING.

PROJECT:

CADANGAN PEMBANGUNAN 1 BLOK KUARTERS GURU 2 TINGKAT DI ATAS SEBAHAGIAN LOT 100508 (MAKTAB RENDAH SAINS MARA (MRSM) ATM BERA) SELUAS 0.500 EKAR, MUKIM BERA, DAERAH BERA, PAHANG DARUL MAKMUR UNTUK TETUAN MAJLIS AMANAH RAKYAT (MARA)

DETAIL :

- FIRST FLOOR SLAB DETAILS

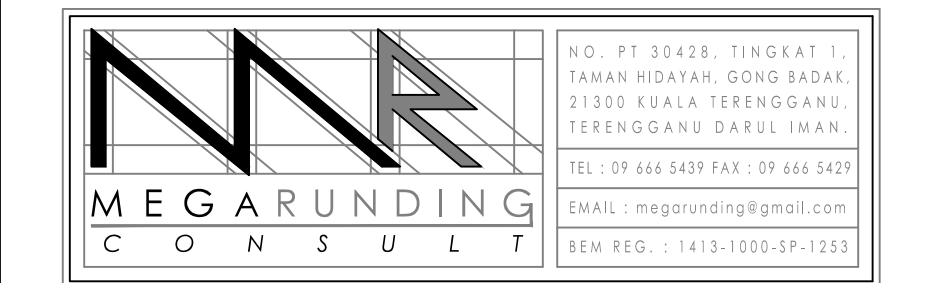
OWNER :

MOHD RIDHWAN BIN ABD YAZID
Pengerah
Bahagian Binaan & Selenggaraaan
Majlis Amanah Rakyat (MARA)
NO.KP : 720704-03-5451

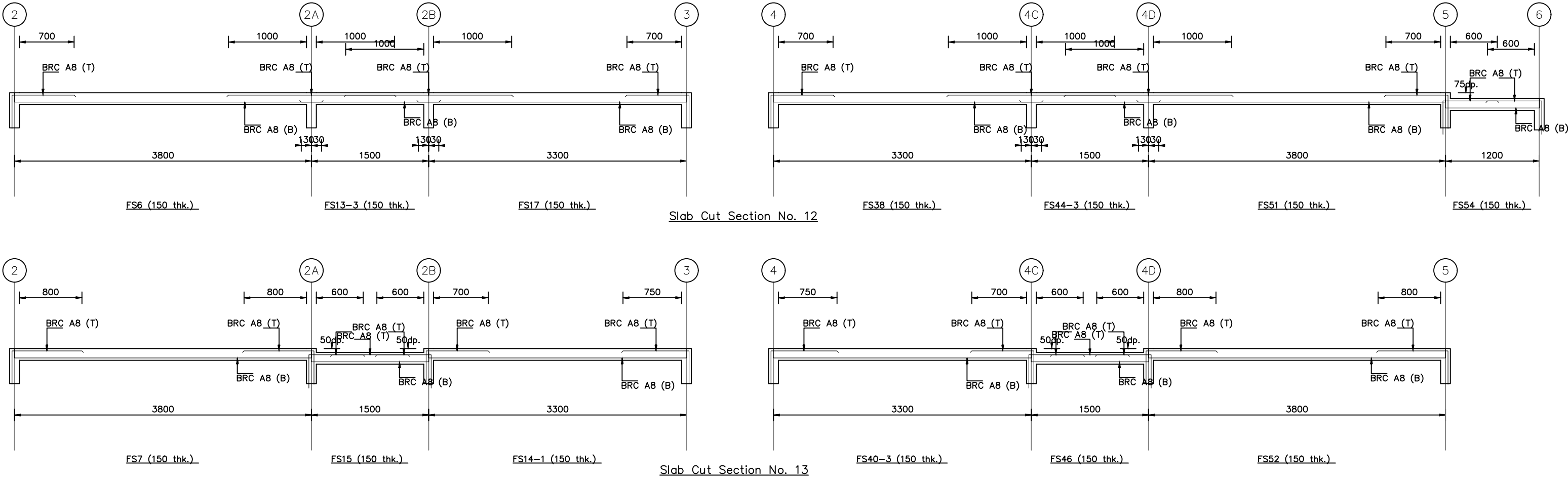
MAJLIS AMANAH RAKYAT (MARA)
IBU PEJABAT MARA, NO 21, JALAN MARA,
50609, KUALA LUMPUR
TEL : 0326132000 FAX : 0326949661

ENGINEER SIGNATURE :

I HEREBY CERTIFY THAT THESE WORKS HAS BEEN DESIGNED BY ME IN ACCORDANCE WITH SOUND ENGINEERING PRACTICE AND THAT I TAKE FULL RESPONSIBILITY FOR THE DESIGN AND PROPER PERFORMANCE OF THE SAME.



SCALE : AS SHOWN PROJECT NO.
DATE : NOVEMBER 2024 MR / YYA 03 / 05 / 24
DRW. NO. : 12/16



- NOTES:
- THESE STRUCTURAL DETAILS ARE TO BE READ IN CONJUNCTION WITH ARCHITECTURAL, M&E AND OTHER RELEVANT DRAWINGS.
 - ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH THE WORK.
 - CONCRETE GRADE 30 SHALL BE USED (UNLESS OTHERWISE) AND COMPLIANCE TO B.S 8110 1985
 - A MIN. DEPTH OF 50mm (2") LEAN CONCRETE SHALL BE PROVIDE TO ALL STRUCTURES IN CONTACT WITH THE GROUND, I.E. AT SOFFIT OF FOOTINGS, PILE CAP,GROUND BEAM, GROUND SLAB, ETC. WHETHER OR NOT SHOWN IN THE DRAWINGS
 - 125mm X 225mm (5" X 9") LINTOL BEAM (REINF. 2Y12 TOP & BOTTOM, LINKS R6-200c/c) TO BE PROVIDE OVER WINDOW/DOOR FOR SPAN UP TO 2.4 METRE (8'-0") LONG.
 - ALL DIMENSIONS IN mm UNLESS SPECIFIED OTHERWISE.
 - CONCRETE CLEAR COVER :
 - PILE CAPS/FOOTING :50mm
 - GROUND BEAMS :25mm
 - STUMPS & COLUMNS :25mm
 - SUPERSTRUCTURAL BEAMS :25mm
 - BRC SHALL BE USED FOR ALL SLAB REINFORCEMENT ($f_y = 460\text{N/mm}^2$)
 - THE YIELD STRESSES FOR REINFORCEMENT STEEL SHALL BE AS FOLLOW:
 - HIGH YIELD STEEL (Y) : 410 N/mm^2
 - MILD YIELD STEEL (R) : 250 N/mm^2
 - ALL LOADBEARING WALLS TO BE POSITIONED CENTRALLY ON BEAMS
 - FOR SETTINGOUT TO REFER ARCHITECTURE
 - ALL BRICKWALL TO BE 114mm THK. EXCEPT PARTY WALL IS 225mm THK.
 - ALL BRICKWORK MUST HAVE A MIN. CRUSHING STRENGTH OF 20N/mm^2 with 1:1:6 CEMENT-LIME-SAND MORTAR MIX.
 - ALL DIMENSION SHOULD REFER TO ARCHITECTURAL DRAWING.

PROJECT:

CADANGAN PEMBANGUNAN 1 BLOK KUARTERS GURU 2 TINGKAT DI ATAS SEBAHAGIAN LOT 100508 (MAKTAB RENDAH SAINS MARA (MRSM) ATM BERA) SELUAS 0.500 EKAR, MUKIM BERA, DAERAH BERA, PAHANG DARUL MAKMUR UNTUK TETUAN MAJLIS AMANAH RAKYAT (MARA)

DETAIL :

- FIRST FLOOR SLAB DETAILS

OWNER :

.....
MOHD RIDHWAN BIN ABD YAZID
Pengerah
Bahagian Binaan & Selenggaraaan
Majlis Amanah Rakyat (MARA)
NO.KP : 720704-03-5451

MAJLIS AMANAH RAKYAT (MARA)
IBU PEJABAT MARA, NO 21, JALAN MARA,
50609, KUALA LUMPUR
TEL : 0326132000 FAX : 0326949661

ENGINEER SIGNATURE :

I HEREBY CERTIFY THAT THESE WORKS HAS BEEN DESIGNED BY ME IN ACCORDANCE WITH SOUND ENGINEERING PRACTICE AND THAT I TAKE FULL RESPONSIBILITY FOR THE DESIGN AND PROPER PERFORMANCE OF THE SAME.

NO. PT 30428, TINGKAT 1,
TAMAN HIDAYAH, GONG BADAQ,
21300 KUALA TERENGGANU,
TERENGGANU DARUL IMAN.

TEL : 09 666 5439 FAX : 09 666 5429
EMAIL : megarunding@gmail.com
BEM REG. : 1413-1000-SP-1253



- 1) THESE STRUCTURAL DETAILS ARE TO BE READ IN CONJUNCTION WITH ARCHITECTURAL, M&E AND
- 2) ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH THE WORK.
- 3) CONCRETE GRADE TO ALL BE USED (UNLESS OTHERWISE) AND COMPLIANCE TO B.S. 8110 1985
- 4) A MIN. DEPTH OF 50mm (2") LEAN CONCRETE SHALL BE PROVIDED TO ALL BE IN CONTACT WITH THE GROUND, I.E AT SOFFIT OF FOOTINGS, PILE CAP/GROUND BEAM, GROUND SLAB, ETC. WHETHER OR NOT SHOWN IN THE DRAWINGS
- 5) 125mm X 225mm X (5" X 9") LINTOL BEAM (REINF. 2Y12 TOP & BOTTOM/LINKS R6-200c/c) TO BE PROVIDED OVER WINDOW/DOOR FOR SPAN UP TO 4. METRE (8'-0") LONG.
- 6) ALL DIMENSIONS IN mm UNLESS SPECIFIED OTHERWISE.
- 7) CONCRETE CLEAR COVER TO ALL :
 - a) PILE CAPS/FOOTING :50mm
 - b) GROUND BEAMS :25mm
 - c) STUMPS & COLUMNS :25mm
 - d) SUPERSTRUCTURAL BEAMS :15mm
- 8) BRC SHALL BE USED FOR ALL SLAB REINFORCEMENT ($f_y = 460\text{N/mm}^2$)
- 9) THE YIELD STRESSES FOR REINFORCEMENT STEEL SHALL BE AS FOLLOW:
 - HIGH YIELD STEEL (Y) : 410 N/mm²
 - MILD YIELD STEEL (R) : 250 N/mm²
- 10) ALL LOADBEARING WALLS TO BE POSITIONED CENTRALLY ON BEAMS
- 11) FOR SETTING/OUT TO REFER ARCHITECTURE
- 12) ALL BRICKWORK TO BE 114mm THK. EXCEPT PARTY WALL IS 225mm THK.
- 13) ALL CRUSHING MUST HAVE A MIN. CRUSHING STRENGTH OF 200 N/mm² WITH CEMENT-LIME AND WORTAR MIX.
- 14) ALL DIMENSION SHOULD REFER TO ARCHITECTURAL DRAWING.

PROJECT:

CADANGAN PEMBANGUNAN 1 BLOK KUARTERS
LURU 2 TINGKAT DI ATAS SEBAHAGIAN
LOT 100508 (MAKTAB RENDAH SAINS MARA
(MRSM) ATM BERA) SELUAS 0.500 EKAR, MUKIM
BERA, DAERAH BERA, PAHANG DARUL
MAKMUR UNTUK TETUAN MAJLIS AMANAH
RAKYAT (MARA)

DETAIL :

- STAIRCASE DETAILS
- ROOF FLOOR BEAM KEY PLAN

OWNER :

MOHD RIDHWAN BIN ABD YAZID
Pengarah
Bahagian Binaan & Selenggaraaan
Majlis Amanah Rakyat (MARA)
NO.KP : 720704-03-5451



MAJLIS AMANAH RAKYAT (MARA)

IBU PEJABAT MARA, NO 21, JALAN MARA,
50609, KUALA LUMPUR
TEL : 0326132000 FAX : 0326949661

ENGINEER SIGNATURE :

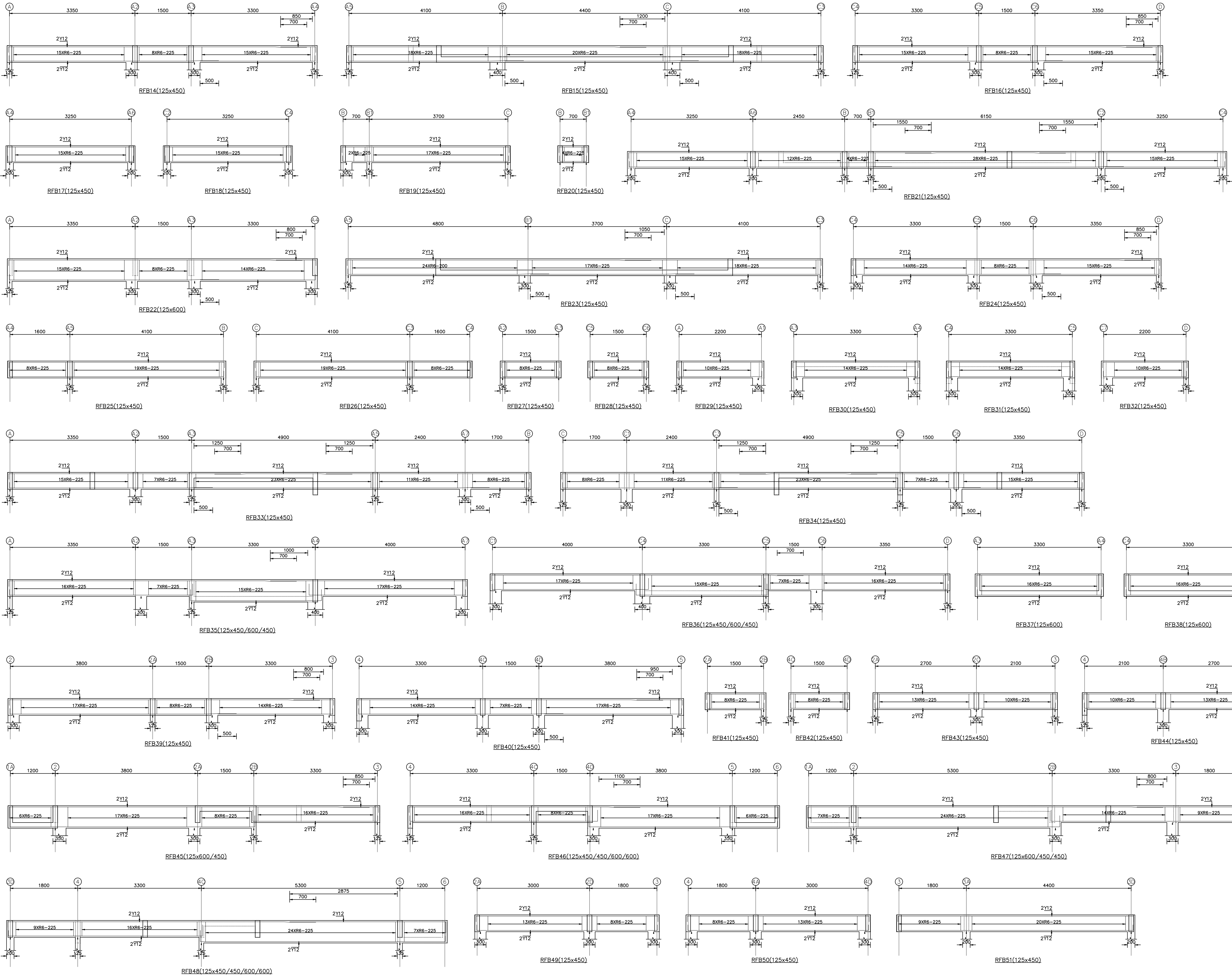
I HEREBY CERTIFY THAT THESE WORKS HAS BEEN DESIGNED BY ME IN ACCORDANCE WITH SOUND ENGINEERING PRACTICE AND THAT I TAKE FULL RESPONSIBILITY FOR THE DESIGN AND PROPER PERFORMANCE OF THE SAME.



O. PT 30428, TINGKAT 1,
AMAN HIDAYAH, GONG BADAK,
1300 KUALA TERENGGANU,
TERENGGANU DARUL IMAN.
TEL : 09 666 5439 FAX : 09 666 5429
MAIL : megarunding@gmail.com
EM REG. : 1413-1000-SP-1253

SCALE : AS SHOWN
DATE : NOVEMBER 2024
DRW. NO. : 14/16

MR / YYA 03 / 05 / 24



- NOTES:
- 1) THESE STRUCTURAL DETAILS ARE TO BE READ IN CONJUNCTION WITH ARCHITECTURAL, M&E AND OTHER RELEVANT DRAWINGS.
 - 2) ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH THE WORK.
 - 3) CONCRETE GRADE 30 SHALL BE USED (UNLESS OTHERWISE) AND COMPLIANCE TO B.S 8110 1985
 - 4) A MIN. DEPTH OF 50mm (2") LEAN CONCRETE SHALL BE PROVIDED TO ALL STRUCTURES IN CONTACT WITH THE GROUND, I.E. AT SOFFIT OF FOOTINGS, PILE CAP,GROUND BEAM, GROUND SLAB, ETC. WHETHER OR NOT SHOWN IN THE DRAWINGS
 - 5) 125mm X 225mm (5" X 9") LINTOL BEAM (REINF. 2Y12 TOP & BOTTOM, LINKS R6-200c/c) TO BE PROVIDED OVER WINDOW/DOOR FOR SPAN UP TO 2.4 METRE (8'-0") LONG.
 - 6) ALL DIMENSIONS IN mm UNLESS SPECIFIED OTHERWISE.
 - 7) CONCRETE CLEAR COVER :
 - a) PILE CAPS/FOOTING :50mm
 - b) GROUND BEAMS :25mm
 - c) STUMPS & COLUMNS :25mm
 - d) SUPERSTRUCTURAL BEAMS :15mm
 - 8) BRC SHALL BE USED FOR ALL SLAB REINFORCEMENT (fy = 460N/mm²)
 - 9) THE YIELD STRESSES FOR REINFORCEMENT STEEL SHALL BE AS FOLLOW:
 - HIGH YIELD STEEL (Y) : 410 N/mm²
 - MILD YIELD STEEL (R) : 250 N/mm²
 - 485 N/mm²
 - 10) ALL LOADBEARING WALLS TO BE POSITIONED CENTRALLY ON BEAMS
 - 11) FOR SETTINGOUT TO REFER ARCHITECTURE
 - 12) ALL BRICKWALL TO BE 114mm THK. EXCEPT PARTY WALL IS 225mm THK.
 - 13) ALL BRICKWORK MUST HAVE A MIN. CRUSHING STRENGTH OF 20N/mm² with 1:1:6 CEMENT-LIME-SAND MORTAR MIX.
 - 14) ALL DIMENSION SHOULD REFER TO ARCHITECTURAL DRAWING.

PROJECT:

CADANGAN PEMBANGUNAN 1 BLOK KUARTERS GURU 2 TINGKAT DI ATAS SEBAHAGIAN LOT 100508 (MAKTAB RENDAH SAINS MARA (MRSM) ATM BERA) SELUAS 0.500 EKAR, MUKIM BERA, DAERAH BERA, PAHANG DARUL MAKMUR UNTUK TETUAN MAJLIS AMANAH RAKYAT (MARA)

DETAIL :

- ROOF FLOOR BEAM DETAILS

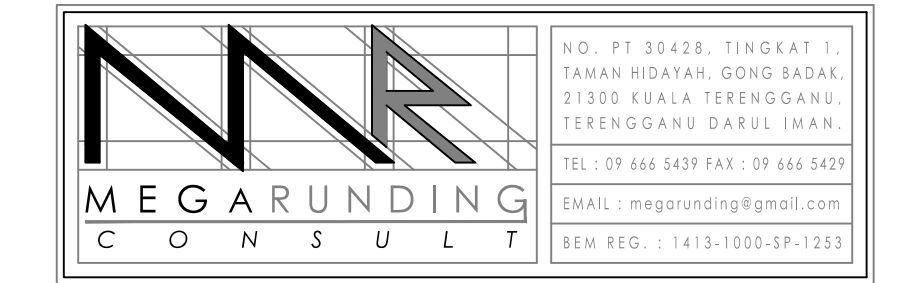
OWNER :

..... MOHD RIDHWAN BIN ABD YAZID Pengarah Bahagian Binaan & Selenggaraan Majlis Amanah Rakyat (MARA) NO.KP : 720704-03-5451

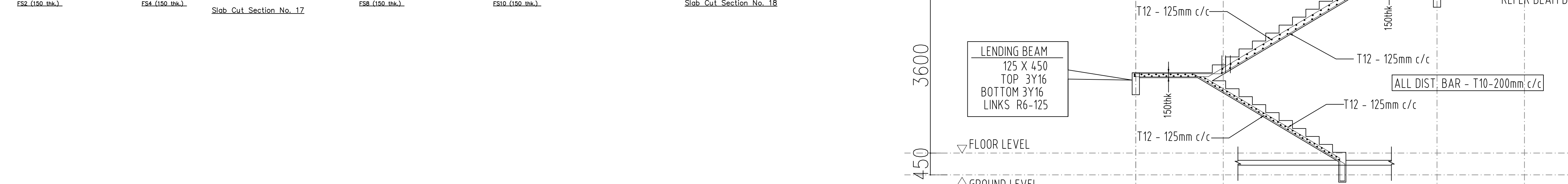
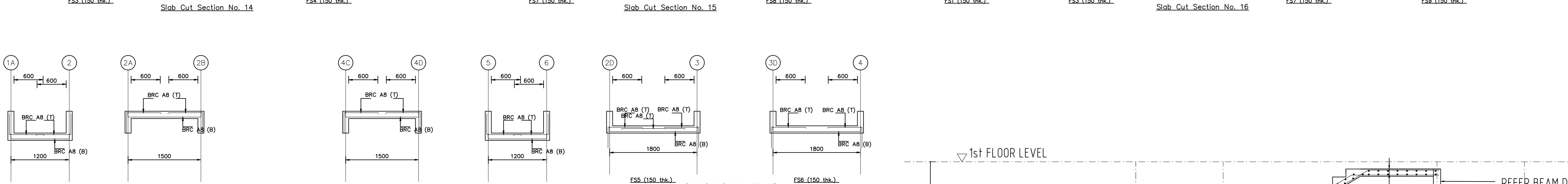
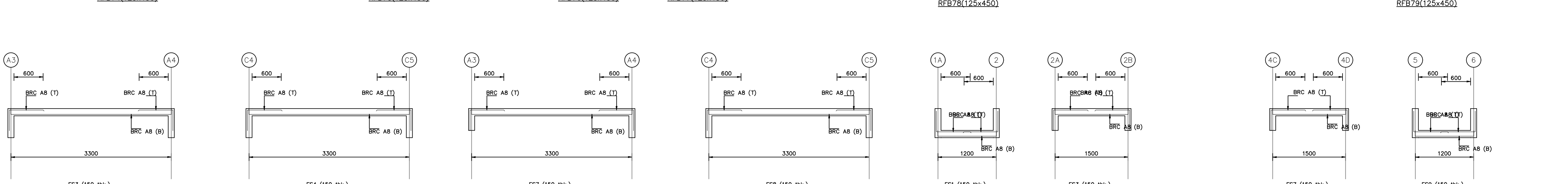
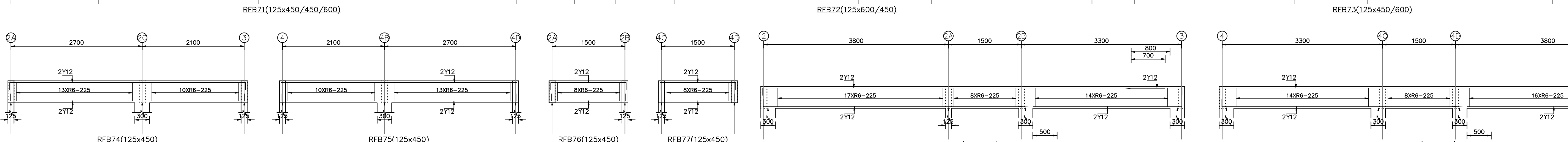
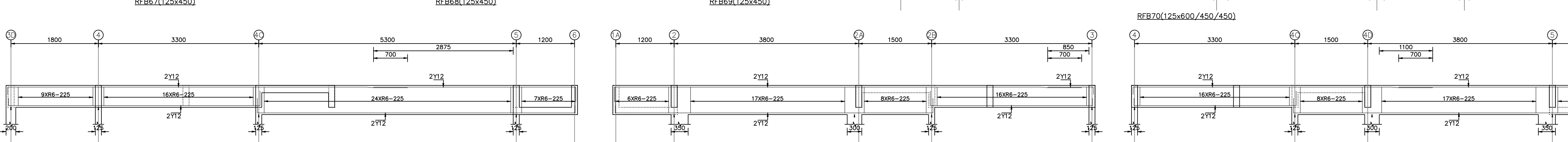
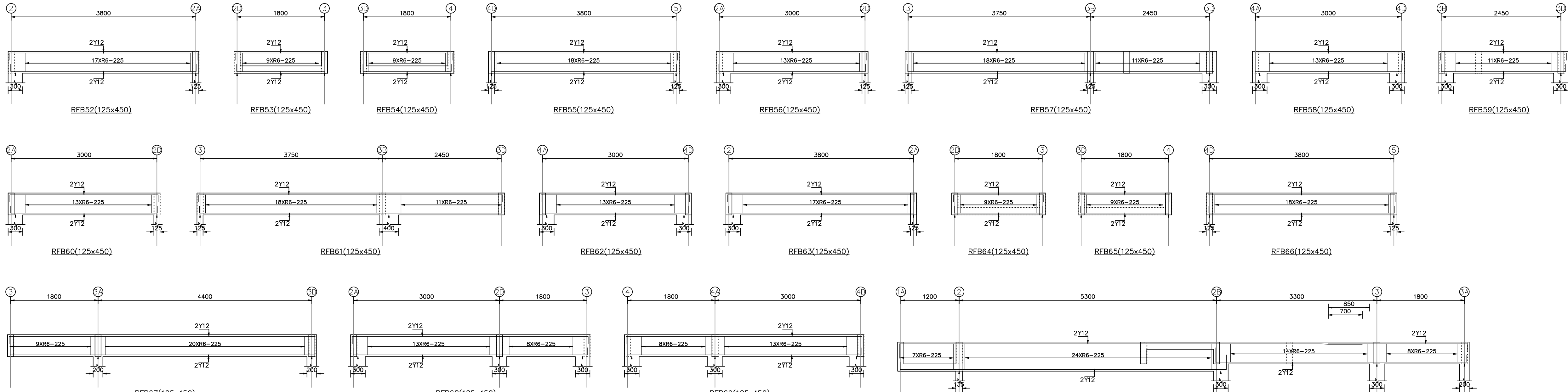
MAJLIS AMANAH RAKYAT (MARA)
IBU PEJABAT MARA, NO 21, JALAN MARA, 50609, KUALA LUMPUR
TEL : 0326132000 FAX : 0326949661

ENGINEER SIGNATURE :

I HEREBY CERTIFY THAT THESE WORKS HAS BEEN DESIGNED BY ME IN ACCORDANCE WITH SOUND ENGINEERING PRACTICE AND THAT I TAKE FULL RESPONSIBILITY FOR THE DESIGN AND PROPER PERFORMANCE OF THE SAME.



SCALE : AS SHOWN PROJECT NO. MR / YYA 03 / 05 / 24
DATE : NOVEMBER 2024
DRW. NO. : 15/16



- NOTES:
- 1) THESE STRUCTURAL DETAILS ARE TO BE READ IN CONJUNCTION WITH ARCHITECTURAL, M&E AND OTHER RELEVANT DRAWINGS.
 - 2) ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH THE WORK.
 - 3) CONCRETE GRADE 30 SHALL BE USED (UNLESS OTHERWISE) AND COMPLIANCE TO B.S 8110 1985
 - 4) A MIN. DEPTH OF 50mm (2") LEAN CONCRETE SHALL BE PROVIDED TO ALL STRUCTURES IN CONTACT WITH THE GROUND, I.E. AT SOFFIT OF FOOTINGS, PILE CAP,GROUND BEAM, GROUND SLAB, ETC. WHETHER OR NOT SHOWN IN THE DRAWINGS
 - 5) 125mm X 225mm (5" X 9") LINTOL BEAM (REINF. 2Y12 TOP & BOTTOM, LINKS R6-200c/c) TO BE PROVIDED OVER WINDOW/DOOR FOR SPAN UP TO 2.4 METRE (8'-0") LONG.
 - 6) ALL DIMENSIONS IN mm UNLESS SPECIFIED OTHERWISE.
 - 7) CONCRETE CLEAR COVER :
 - a) PILE CAPS/FOOTING :50mm
 - b) GROUND BEAMS :25mm
 - c) STUMPS & COLUMNS :25mm
 - d) SUPERSTRUCTURAL BEAMS :15mm
 - 8) BRC SHALL BE USED FOR ALL SLAB REINFORCEMENT (fy = 460N/mm²)
 - 9) THE YIELD STRESSES FOR REINFORCEMENT STEEL SHALL BE AS FOLLOW:
 - HIGH YIELD STEEL (Y) : 410 N/mm²
 - MILD YIELD STEEL (R) : 250 N/mm²
 - 485 N/mm²
 - 10) ALL LOADBEARING WALLS TO BE POSITIONED CENTRALLY ON BEAMS
 - 11) FOR SETTINGOUT TO REFER ARCHITECTURE
 - 12) ALL BRICKWALL TO BE 114mm THK. EXCEPT PARTY WALL IS 225mm THK.
 - 13) ALL BRICKWORK MUST HAVE A MIN. CRUSHING STRENGTH OF 20N/mm² with 1:1:6 CEMENT-LIME-SAND MORTAR MIX.
 - 14) ALL DIMENSION SHOULD REFER TO ARCHITECTURAL DRAWING.

PROJECT:

CADANGAN PEMBANGUNAN 1 BLOK KUARTERS GURU 2 TINGKAT DI ATAS SEBAHAGIAN LOT 100508 (MAKTAB RENDAH SAINS MARA (MRSM) ATM BERA) SELUAS 0.500 EKAR, MUKIM BERA, DAERAH BERA, PAHANG DARUL MAKMUR UNTUK TUTUAN MAJLIS AMANAH RAKYAT (MARA)

DETAIL :

- ROOF FLOOR SLAB DETAILS
- ROOF FLOOR BEAM DETAILS

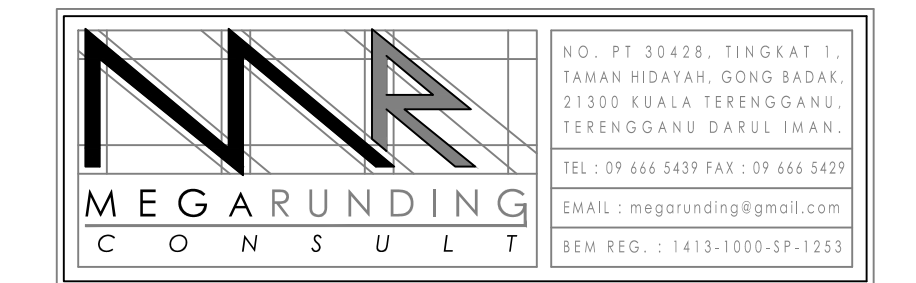
OWNER :

MOHD RIDHWAN BIN ABD YAZID
Pengerah
Bahagian Binaan & Selenggaraaan
Majlis Amanah Rakyat (MARA)
NO.KP : 720704-03-5451

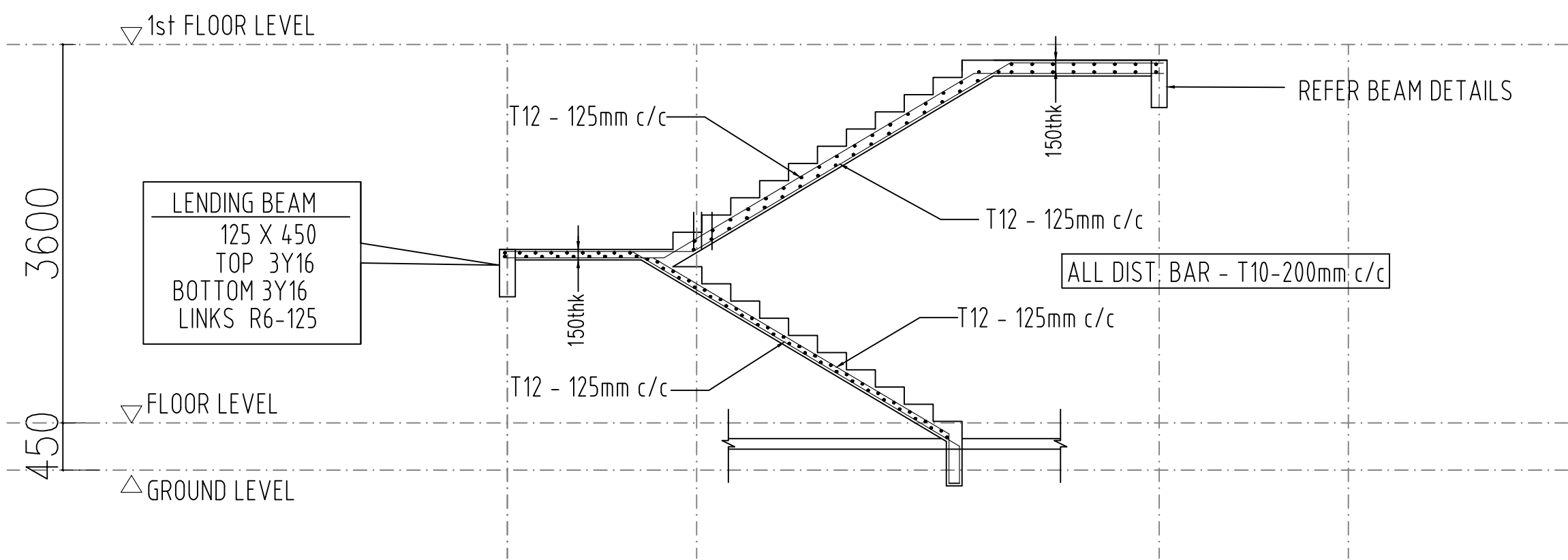
MAJLIS AMANAH RAKYAT (MARA)
IBU PEJABAT MARA, NO 21, JALAN MARA,
50609, KUALA LUMPUR
TEL : 0326132000 FAX : 0326949661

ENGINEER SIGNATURE :

I HEREBY CERTIFY THAT THESE WORKS HAS BEEN DESIGNED BY ME IN ACCORDANCE WITH SOUND ENGINEERING PRACTICE AND THAT I TAKE FULL RESPONSIBILITY FOR THE DESIGN AND PROPER PERFORMANCE OF THE SAME.



SCALE : AS SHOWN PROJECT NO.
DATE : NOVEMBER 2024 MR / YYA 03 / 05 / 24
DRW. NO. : 16/16



TYPICAL STAIRCASE DETAIL