## GENERAL NOTES FOR REINFORCED CONCRETE STRUCTURE:

- 1. DESIGN TO COMPLY WITH : a. HONG KONG BUILDING (CONSTRUCTION) REGULATION, 1990
- b. STRUCTURAL USE OF CONCRETE, 2013
- . CODE OF PRACTICE ON WIND EFFECTS, HONG KONG, 2004 CODE OF PRACTICE FOR FIRE SAFETY IN BUILDINGS, 2011
- CODE OF PRACTICE FOR DEAD AND IMPOSED LOADS, 2011
- 2. ALL STRUCTURAL DRAWINGS MUST BE READ IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS AND OTHER RELEVANT DRAWINGS.
- 3. STEEL REINFORCEMENTS FOR CONCRETE SHALL COMPLY WITH THE CONSTRUCTION STANDARD CS2 : 20 2 MINIMUM CHARACTERISTIC STRENGTH OF : 500MPa FOR RIBBED STEEL REINFORCING BARS GRADE 500B/C,
- 250MPa FOR PLAN REINFORCING BARS GRADE 250. 4. MINMUM BOND / LAP LENGTH OF REINFORCEMENT FOR ALL STRUCTURAL ELEMENTS SHALL BE AS SPECIFIED IN THE FOLLOWING SCHEDULE:

SCHEDULE OF LAP & ANCHORAGE LENGTH FOR DESIGN TO COP 2013

	FOR RIBBED STEEL REINFORCING BARS						
	GRADE C45/20D						
OF BAR	ANCHORAGE						
	TL	CL					
	33 x Dia.	26 x Dia.					
10	330	260					
12	400	320					
16	530	420					
20	660	520					
25	830	650					
32	1060	840					
40	1320	1040					

LEGEND :

1. TL = LAP OR ANCHORAGE LENGTH UNDER TENSION OR LAP LENGTH UNDER COMPRESSION CL = ANCHORAGE LENGTH UNDER COMPRESSION

- 2. NO SPLICING OF REINFORCEMENT OTHER THAN THOSE SHOWN ON THE DRAWING IS ALLOWED UNLESS OTHERWISE APPROVED BY THE ENGINEER AND TL SHALL BE PROVIDED. 3. NOMINAL LAP AND ANCHORAGE FOR DISTRIBUTION BARS TO BE 300 OR WHICHEVER THE
- GREATER. LAP LENGTH FOR UNEQUAL SIZE BARS SHALL BE BASED UPON THE SMALLER BAR. FOR THE FOLLOWING PROVISIONS a) OR b) APPLY, THE LAP LENGTH SHOULD BE INCREASED BY A FACTOR OF 1.4. a) WHERE A LAR OCCURS AT THE TOP OF A SECTION AS CAST AND THE MINIMUM COVER IS LESS
- THAN TWICE THE SIZE OF THE LAPPED REINFORCEMENT. b) WHERE A LAP OCCURS AT THE CORNER OF A SECTION AND THE MINIMUM COVER TO EITHER FACE IS LESS THAN TWICE THE SIZE OF THE LAPPED REINFORCEMENT, OR WHERE THE CLEAR
- DISTANCE BETWEEN ADJACENT LAPS IS LESS THAN 75mm OR SIX TIMES THE SIZE OF THE LAPPED REINFORCEMENT, WHICHEVER IS THE GREATER. IF BOTH PART a) & b) CONDITION APPLY, THE LAP LENGTH SHOULD BE INCREASED BY A FACTOR OF 2.0.

### FOR REFERENCE ONLY

- 5. ALL NOMINAL LAPS OF DISTRIBUTION BAR FOR SLABS AND WALLS SHALL BE 300 MINIMUM UNLESS
- OTHERWISE SPECIFIED.
- 6. FOR DETAILS OF STRUCTURAL FALLS, SEE APPROPRIATE STRUCTURAL AND ARCHITECTURAL DRAWINGS. 7. CONCRETE TO BE DESIGNED MIX CONCRETE AS SPECIFIED IN THE FOLLOWING SCHEDULE TO CS1:2010 AND THE GRADE DESIGNATIONS GIVEN ARE THE CHARACTERISTIC CUBE STRENGTH AT 28 DAYS AND THE MAXIMUM AGGREGATE SIZE 20mm. UNLESS OTHERWISE STARTED ON THE DRAWINGS.

MEMBER	GRADE
BEAMS, SLABS AND WALLS	C45/20
COLUMNS	C45/20
WATER TANKS	C45/20

- 8. THE EQUIVALENT SODIUM OXIDE IN CONCRETE MIX SHALL NOT EXCEED 3 0 kg/m<sup>3</sup> OF CONCRETE. CORRESPONDING TEST CERTIFICATES ON ALKALI CONTENT IN CEMENT, ADMIXTURES, AGGREGATE ETC., ISSUED BY A HOKLAS LABORATORY AND CALCULATION OF THE EQUIVALENT SODIUM OXIDE SHOULD BE SUBMITTED TO THE RSE QUARTERLY.
- 9. CONCRETE CUBES SHALL BE MADE AND TESTED WITH TEST REPORT IN ACCORDANCE WITH THE PROVISIONS OF THE HONG KONG BUILDING (CONSTRUCTION) REGULATIONS: 1990 AND THE CONSTRUCTION STANDARD CS1 : 2010, EXCEPT SECTION 7.1.
- 10. UNLESS OTHERWISE STATED, CONCRETE COVER TO ALL REINFORCEMENT SHALL BE AS SPECIFIED IN THE FOLLOWING SCHEDULE OR EQUAL TO THE DIAMETER OF THAT REINFORCEMENT, WHICHEVER IS THE GREATER :

					\	
IN CONTACT WITH EARTH	SLAB	STAIR	BEAM	COLUMN	WAL	L
1) CAST ON BLINDING	50	50	50	50	50	
2) CAST AGAINST SOIL	75	75	75	75	75	l.
						( <u> </u>

11. CONCRETE COVER SHALL ALSO FULFIL THE REQUIREMENT FOR APPROPRIATE FIRE RESISTANCE RATING AS SPECIFIED IN THE CODE OF PRACTICE FOR FIRE RESISTING CONSTRUCTION OR NOMINAL COVER FOR DURABILITY WHICHEVER IS GREATER.

	CONC MAIN F	NOMINAL		
	120 MINS. F.R.P.	60 MINS. F.R.P.	240 MINS. F.R.P.	DURABILITY
	35	25	55 *	35
SLAB, CONTINUOUS	25	25	45 *	35
STAIR	35	25	55 *	35
BEAM, SIMPLY SUPPORTED	50 *	30	80 *	40
BEAM, CONTINUOUS	50	30	60 *	40
COLUMN	35	25	35	35
WALL	25	25	25	35
WALL SLAB FOR WATER TANK	40	40	40	40

REINFORCEMENT CONSISTING OF EXPANDED METAL LATH OR A WIRE FABRIC NOT LIGHTER THAN 0.5 kg/m<sup>2</sup> WITH 2mm DIAMETER WIRE AT NOT MORE THAN 100mm CENTRES OR A CONTINUOUS ARRANGEMENT OF LINKS AT NOT MORE THAN 200mm CENTRES SHALL BE INCORPORATED IN THE CONCRETE COVER AT A DISTANCE NOT EXCEEDING 20mm FROM THE FACE OF THE STRUCTURAL MEMBERS SURROUNDING THE PLANT/MACHINE ROOMS AND AT OTHER AREAS REQUIRING 120 MINS. P.R.R. AS SPECIFIED IN THE GENERAL BUILDING PLANS.

- 12. CONSTRUCTION JOINTS TO BE POSITIONED AS FOLLOWS :a. THE JOINT IN A BEAM TO BE VERTICAL AND AT ONE-THIRD OF THE SPAN. REINFORCEMENT.
- 75mm ABOVE FLOOR LEVEL.
- SHALL BE OVERSTRESSED.
- MINIMUM OF 20mm.
- BUILDINGS DEPARTMENT, AP AND RSE. 19. SPACER BARS SHALL BE OF DIAMETER = 25mm OR DIAMETER OF MAIN BAR WHICHEVER IS GREATER
- @1.5m c/c.
  - MINIMUM CUBE STRENGTH Uw=21N/mm<sup>2</sup> AT 28 DAYS. 21. ALL BEAM SIZE TO BE READ AS BREADTH X DEPTH
  - 22. ALL LEVELS SHOWN IN FRAMING PLANS TO BE STRUCTURAL FLOOR LEVEL. (LEGEND : 🕁 108.7 SFL STRUCTURAL FLOOR LEVEL AT 108.7 mPD.)

  - 25. ALL BENT TO STEEL REINFORCEMENT SHALL COMPLY WITH BS 8666:2000

## NOTES FOR ANNOTATION OF BARS :

- 1- ALL DIMENSIONS SHOWN ARE IN mm.
- 3. BAR REFERENCING :
- EXAMPLE : 16T32-200 NUMBER OF BARS: 16
- TYPE OF STEEL: T (RIBBED STEEL REINFORCING BARS GRADE 500B/C) DIAMETER OF BARS: 32mm
- PITCH OF BARS (IF APPLICABLE): 200 mm

# NOTES FOR CONSTRUCTION OF CANTILEVERED BEAM & SLAB :

- EXTERNAL EDGE OF THE SUPPORTING MEMBERS.
- STEEL REINFORCEMENT.
- BEING DISPLACED OR DEPRESSED.

## MAINTAINED FOR AT LEAST 14 DAYS.

### NOTES FOR WATERPROOFING CONSTRUCTION : WATERSTOP

- BY THE ENGINEER.
- ENGINEER.

- THE APPROVAL OF THE ENGINEER.
- THE SURROUNDING CONCRETE.
- MINIMUM SPACING TO BE 40mm.
- COMPLY WITH BS8007.
- c) DETAIL OF FIXING OF WATERSTOPS SHALL BE IN ACCORDANCE WITH THE RECOMMENDATION OF

b. THE JOINT IN A SLAB TO BE VERTICAL, AT ONE-THIRD OF THE PANEL AND PARALLEL TO THE

c. THE JOINT IN COLUMNS TO BE AT THE UNDERSIDE OF THE LOWEST BEAM OVER THE COLUMNS OR AT

13. CONSTRUCTION JOINTS WHERE NOT SHOWN SHOULD BE LOCATED TO THE APPROVAL OF THE ENGINEER. 14. DURING CONSTRUCTION THE STRUFOR REFERENCE ONLY IED IN A STABLE CONDITION AND NO PART

15. SIZE OF CONCRETE ELEMENTS DOES NOT INCLUDE THICKNESS OF APPLIED FINISHES. 16. NO HOLES OR CHASES OTHER THAN THOSE SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE MADE. 17. PIPES OR CONDUITS SHALL NOT BE PLACED WITHIN THE CONCRETE COVER TO REINFORCEMENT WITHOUT THE APPROVAL OF THE ENGINEER. THE CONCRETE COVER TO EMBEDDED PIPES OR CONDUITS SHALL BE A

18. WATER BORNE PIPES SHALL NOT BE PLACED WITHIN R.C. CONCRETE WITHOUT THE APPROVAL OF THE

20. ALL ROOF SCREEDING TO BE LIGHT WEIGHT CONCRETE OF DENSITY BETWEEN 1600 TO 1700kg/m<sup>3</sup> AND

23. ALL DIMENSION ARE IN MILLIMETRE & LEVEL IN mPD EXCEPT OTHERWISE STATED. 24. ALL EARTH BACKFILLING TO BE COMPACTED TO 95% OF MAX. DRY DENSITY TO BS 1377-TES 12. 26. THE GENERAL BUILDING PLANS ARE SUBMITTED ON (31-12-2020).

2. ANY DISCREPANCY FOUND BETWEEN THE DETAILS SHOWN IN THIS DRAWING AND THAT SHOWN IN DETAILED DRAWINGS SHALL BE REPORTED TO THE ENGINEER FOR DIRECTION. FOR REFERENCE ONLY

ALL CANTILEVERED PROJECTIONS SHOULD BE CAST MONOLITHICALLY WITH AND AT THE SAME TIME AS THE DIRECTLY SUPPORTING MEMBERS. CONSTRUCTION JOINTS MUST NOT BE LOCATED ALONG THE

2. ADEQUATE BAR SPACERS SHOULD FOR REFERENCE ONLY THE POSITION AND ALIGNMENT OF THE 3. DURING CONCRETING, ADEQUATE COMPACTION SHOULD BE GIVEN TO ENSURE GOOD QUALITY CONCRETE. EVERY ENDEAVOUR SHOULD ALSO BE MADE TO AVOID STEEL REINFORCEMENT FROM

4. ALL PROPPING TO THE SOFFIT OF THE FORMWORK FOR THE CANTILEVERED PROJECTIONS SHOULD BE

FOR LOCATIONS AND DETAILS OF WATERSTOP AT EXPANSION JOINTS. CONSTRUCTION JOINTS ETC. REFER TO ALL RELEVANT DRAWINGS. JOINT NOT SPECIFIED SHALL RECEIVE THE PRIOR APPROVAL

TYPE OF WATERSTOPS SHALL BE AS SPECIFIED IN THE CONTRACT OR TO THE APPROVAL OF THE

THE MANUFACTURER. FOR REFERENCE ONLY d) PRIOR TO CONCRETING, THE WATERSTOP SHALL BE NAILED, CHEPPED OR TIED WITH WIRE TO ITS CORRECT POSITION SECURELY AND ADEQUATELY. DETAIL AND SPACING OF SUCH NAILING, CLIPS

AND TIES SHALL BE IN ACCORDANCE WITH THE RECOMMENDATION OF THE MANUFACTURER AND TO e) CARE SHALL BE TAKEN TO AVOID ANY AIR VOIDS BEING TRAPPED BETWEEN THE WATERSTOP AND

f) SURROUNDING STEEL REINFORCEMENT SHALL NOT BE PLACED IN CONTACT WITH THE WATERSTOP,

2. ALL CONCRETE USED IN WATER RETAINING STRUCTURE SHALL BE WATERPROOFING CONCRETE AND



BO	UNDARY COORD	INATES
POINT	E (m)	N (m)
A	835335.928	819789.845
В	835350.861	819792.76
С	835368.366	819703.101
D	835353.433	819700.186
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REV	DATE	AMENDMENT
	AMPLE PRO	NECT
SCALE	AS SHOWN	@A1
DRAWING	SNO.	REV. NO.
S001		
SOURCE		
	90mm (V for COMF	V) x 40mm (H) space PANY LOGO
	90mm (M for COMF	V) x 40mm (H) space PANY LOGO
	90mm (M for COMF	V) x 40mm (H) space PANY LOGO
	90mm (M for COMF	V) x 40mm (H) space PANY LOGO
	90mm (M for COMF	V) x 40mm (H) space PANY LOGO
	90mm (M for COMF 90mm (M for AP/RS	V) x 40mm (H) space PANY LOGO V) x 60mm (H) space SE/RGE's
	90mm (M for COMF 90mm (M for AP/RS signature	V) x 40mm (H) space PANY LOGO V) x 60mm (H) space SE/RGE's E/ and stamp chop
	90mm (M for COMF 90mm (M for AP/RS signature	V) x 40mm (H) space PANY LOGO V) x 60mm (H) space SE/RGE's V and stamp chop
	90mm (M for COMF 90mm (M for AP/RS signature	/) x 40mm (H) space PANY LOGO /) x 60mm (H) space SE/RGE's // and stamp chop
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BD's OF	90mm (M for COMF 90mm (M for AP/RS signature	<i>I</i> ) x 40mm (H) space PANY LOGO <i>I</i> ) x 60mm (H) space SE/RGE's <i>I</i> / and stamp chop
BD's OF	90mm (M for COMF 90mm (M for AP/RS signature	/) x 40mm (H) space PANY LOGO /) x 60mm (H) space SE/RGE's // and stamp chop
BD's OF	90mm (M for COMF 90mm (M for AP/RS signature FICAL USE	<pre>/) x 40mm (H) space PANY LOGO /) x 60mm (H) space SE/RGE's // and stamp chop // and stamp chop</pre>
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BD's OF	90mm (M for COMF 90mm (M for AP/RS signature FICAL USE FICAL USE 90mm (M for BD's a certificati approved (PNAP A	<ul> <li><i>I</i>) x 40mm (H) space PANY LOGO</li> <li><i>I</i>) x 60mm (H) space SE/RGE's / and stamp chop</li> <li><i>I</i>) x 150mm (H) space approval stamp chop</li> <li><i>I</i>) x 150mm (H) space approval stamp / on of copies of 1 plans DM-10 APP A)</li> </ul>
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COLUMN	SCHEDULE
COLUMN MARK	SIZE (mm)
C1A	250 x 875
C1B	235 x 825
C1C	275 x 450
C2A	250 x 775
C2B	235 x 825
C2C	275 x 450
C3	250 x 675
C4	300 x 300
C5	200 x 450
C7	250 x 675
C8	300 x 300
C9	200 x 450
C10	275 x 550
C11	775 x 875
C12	775 x 875



1:300

## LOADING KEY PLAN

USAGE	LEGEND	L.L. (kPa)	FIN. (kPa)	F.R.R. (MIN)
STAIRCASE		3.0	1.25	60/60/60
LOBBY		3.0	1.25	60/60/60
DOMESTIC		2.0	0.50	60/60/60
PLANT ROOM		7.5	1.25	60/60/60
FLAT ROOF		5.0	5.60	60/60/60



<u>NOTES</u> 1. ALL BEAM SIZE TO BE 400(B)x600(D), UNLESS OTHERWISE STATED. 2. ALL SLAB SIZE TO BE 150mm THK, UNLESS OTHERWISE STATED.

TOWER FLOOR LEVEL									
LEVEL	S.F.L.								
5/F	+26.525								
6/F	+29.850								
7/F	+33.175								
8/F	+36.500								
9/F	+39.825								
10/F	+43.150								
11/F	+46.475								
12/F	+49.800								
15/F	+53.125								
16/F	+56.450								
17/F	+59.775								
18/F	+63.100								
19/F	+66.425								
20/F	+69.750								
21/F	+73.075								
22/F	+76.400								
23/F	+79.725								
25/F	+83.050								
26/F	+86.375								
27/F	+89.700								
28/F	+93.025								
29/F	+96.350								

<u>LEGEND:</u>	
	SITE BOUNDARY
	COLUMN / WALL ABOVE
	COLUMN / WALL BELOW
	WALL ABOVE & BELOW
	COLUMN ABOVE & BELOW
	BEARING (B.W.) / HANGER WALL (H.W.)
	VOID
+26.50	PROPOSED STRUCTURE FLOOR LEVEL
TB1 (300X450)	PROPOSED BEAM MARK AND BEAM SIZE
$\frac{\text{TS1}}{$	PROPOSED SLAB MARK AND SPAN DIRECTION

	DATE	
PROJECT	DATE	AMENDMENT
CICS	AMPLE PRO	UJECT
DRAWING		
S002	5 NU.	REV. NO.
S002 SOURCE		REV. NO.
SOURCE	90mm (V for COM	REV. NO. N) x 40mm (H) space IPANY LOGO
SOURCE	90mm (V for COM	REV. NO.
SOURCE	90mm (v for COM	REV. NO. N) x 40mm (H) space IPANY LOGO N) x 60mm (H) space
SOURCE	90mm (V for COM 90mm (V for AP/R signature	REV. NO. N) x 40mm (H) space IPANY LOGO N) x 60mm (H) space SE/RGE's e/ and stamp chop
SOURCE SOURCE BD's OF	90mm (v for COM 90mm (v for AP/R signature	REV. NO.
SOURCE SOURCE BD's OFI	<ul> <li>FICAL USE</li> <li>FICAL USE</li> <li>90mm (\u00ed for AP/R signature)</li> <li>FICAL USE</li> </ul>	REV. NO.         N) x 40mm (H) space         IPANY LOGO         N) x 60mm (H) space         ISE/RGE's         e/ and stamp chop         N) x 150mm (H) space         approval stamp / ion of copies of d plans         ADM-10 APP A)

R.C. BEAM SCHEDULE																			
	BEAM SIZE	REINFORCEMENT										REINFORCEMENT DIMEN				VSION			
<b>BEAM MARK</b>	(BXD)	ELEV. REFER	а	a1	a2	b	b1	С	d	е	f	g	LINKS 1	LINKS 2	LINKS 3	А	В	С	D
TB1	200 x 300	E9	2T20	-	-	-	2T16	-	-	-	-	-	<	T10-150(2 LEGS)	>	2550	-	-	-
TB1a	200 x 300	E9	2T20	-	-	-	2T16	-	-	-	-	-	<	T10-150(2 LEGS)	>	2550	-	-	-
TB2	200 x 300	E10	2T16	-	-	2T16	-	-	-	-	-	-	<	T10-200(2 LEGS)	>	-	-	-	-
TB3	400 x 600	E5	4T25	-	-	4T25	-	4T25	4T25	4T25	4T20	-	<	T10-200(4 LEGS)	>	-	1300	1000	-
TB4	400 x 600	E4	4T25	-	-	4T25	-	-	4T25	-	4T20	-	<	T10-200(2 LEGS) TORSIONAL LINKS + T10	>	-	1000	1800	-
TB5	400 x 600	E4	4T25	-	-	4T25	-	-	4T25	-	4T20	-	<	T10-200(2 LEGS) TORSIONAL LINKS + T10	>	-	1800	1800	-
TB6	400 x 600	E4	4T25	-	-	4T25	-	-	4T25	-	4T20	-	<	T10-200(2 LEGS) TORSIONAL LINKS + T10	>	-	1800	1800	-
TB7	400 x 600	E4	4T25	-	-	4T25	-	-	4T25	-	4T20	-	<	T10-200(2 LEGS) TORSIONAL LINKS + T10	>	-	1800	1800	-
TB8	400 x 600	E4	4T25	-	-	4T25	-	-	4T25	-	4T20	-	<	T10-200(2 LEGS) TORSIONAL LINKS + T10	>	-	1800	1800	-
TB9	400 x 600	E4	4T25	-	-	4T25	-	-	4T25	-	4T20	-	<	T10-200(2 LEGS) TORSIONAL LINKS + T10	>	-	1800	1800	-
TB10	400 x 600	E4	4T25	-	-	4T25	-	-	4T25	-	4T20	-	<	T10-200(2 LEGS) TORSIONAL LINKS + T10	>	-	1800	1000	-
TB11	400 x 600	E4	4T25	-	-	4T25	-	-	4T25	-	4T20	-	<	T10-200(2 LEGS) TORSIONAL LINKS + T10	>	-	1000	1300	-
TB12	400 x 600	E3	4T25	-	-	4T25	-	-	4T25	-	4T20	-	<	T10-200(4 LEGS)	>	-	-	-	-
TB13	250 x 600	E10	2T25	-	-	2T25	-	-	-	-	-	-	<	T10-200(2 LEGS)	8T16-200(2 LEGS)	-	-	-	-
TB14	250 x 600	E10	2T25	-	-	2T25	-	-	-	-	-	-	<	T10-200(2 LEGS)	8T16-200(2 LEGS)	-	-	-	-
TB51	200 x 600	E9a	2T20	2T20	2T20	2T20	-	-	-	-	-	T10-225 E.F.	<	T10-150(2 LEGS)	>	1000	-	-	-
TB54	200 x 600	E9a	2T20	2T20	2T20	2T20	-	-	-	-	-	T10-225 E.F.	<	T10-150(2 LEGS)	>	1000	-	-	-







<u>E5</u>









<u>E10</u>



<u>2 LEGS</u>



<u>6 LEGS</u>

BIM REF		
	:	
REV	DATE	
PROJEC	T	
CIC S	AMPLE PRO	DJECT
SCALE	1:100@A1	
S003	G NO.	REV. NO.
SOURCE	G NO.	REV. NO.
SOURCE		REV. NO.
SOURCE		REV. NO.
SOURCE	 90mm (M	REV. NO. /) x 40mm (H) space
SOURCE	90mm (M for COMF	REV. NO. /) x 40mm (H) space PANY LOGO
SOURCE	90mm (M for COMF	REV. NO. /) x 40mm (H) space PANY LOGO
SOURCE	90mm (M for COMF	REV. NO. /) x 40mm (H) space PANY LOGO
SOURCE	90mm (M for COMF	REV. NO. /) x 40mm (H) space PANY LOGO
SOURCE	90mm (M for COMF	REV. NO. /) x 40mm (H) space PANY LOGO
SOURCE	90mm (M for COMF	REV. NO. /) x 40mm (H) space PANY LOGO
SOURCE	90mm (M for COMF	REV. NO. /) x 40mm (H) space PANY LOGO /) x 60mm (H) space SE/RGE's
SOURCE	90mm (M for COMF 90mm (M for AP/RS signature	/) x 40mm (H) space PANY LOGO /) x 60mm (H) space SE/RGE's / and stamp chop
SOURCE	90mm (M for COMF 90mm (M for AP/RS signature	/) x 40mm (H) space PANY LOGO /) x 60mm (H) space SE/RGE's / and stamp chop
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VERTICAL JOINT SHEAR REINFORCEMENT SHOULD CONSIST OF INTERMEDIAT COLUMN BARS ADEQUATELY ANCHORED IN THE COLUMN AND PLACED BETWEEN THE CORNER BARS AND WITH IN THE EFFECTIVE JOINT AREA AS DEFINED IN CLAUSE 6.8.1.3 OF THE CODE OF PRACTICE FOR STRUCTURAL USE OF CONCRETE 2013.

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SOURCE - BD's OFFIC	90mm (W for COMF 90mm (W for AP/RS signature, CAL USE	/) x 40mm (H) space PANY LOGO () x 60mm (H) space SE/RGE's / and stamp chop () x 150mm (H) space approval stamp / on of copies of plans DM-10 APP A)
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			R	C. WALL SCHEDUL	_E			
FLOOR	WALL MARK	CONCRETE	THICKNESS (mm)	VERTICAL BARS	HORIZONTAL BARS	BINI	DER	STEEL RATIO
4/F	W1	C.60	250	T40-150	T10-150	T12-300	150	3.4
4/F	W2	C60	250	T25-125	T12-125	-	-	1.3
4/F	W3	C60	200	T20-125	T10-100	_		1.3
4/F	W4	C60	150	T20-150	T10-150	-	-	1.4
4/F	W4	C60	200	T20-125	T10-100	-	-	1.3
4/F	W5A	C60	200	T20-125	T10-100	-	-	1.3
4/F	W5A	C60	250	T25-125	T12-125	-	-	1.6
4/F	W5B	C60	150	T20-100	T10-150	T12-200	150	2.1
4/F	W5C	C60	200	T20-125	T10-100	-	-	1.3
4/F	W5C	C60	250	T25-125	T12-125	-	-	1.6
4/F	W5D	C60	150	T20-125	T10-150	-	-	1.7
4/F	W5E	C60	200	T20-125	T10-100	-	-	1.3
4/F	W5E	C60	250	T25-125	T12-125	-	-	1.6
4/F	W5F	C60	150	T20-100	T10-150	T12-200	150	2.1
4/F	W5G	C60	200	T20-125	T10-100	-	-	1.3
4/F	W5G	C60	250	T32-175	T12-125	-	-	1.8
4/F	W6	C60	200	T25-150	T10-100	-	-	1.6
4/F	W6	C60	250	T20-125	T12-125	-	-	1.0
4/F	W6	C60	300	T32-100	T10-150	T12-200	150	2.1
4/F	W7	C60	250	T25-150	T12-125	-	-	1.3
4/F	W8	C60	250	T32-175	T12-125	-	-	1.8
4/F	W9	C60	200	T20-125	T10-100	-	-	1.3
4/F	W10	C60	150	T20-150	T10-150	-	-	1.4
4/F	W10	C60	200	T20-125	T10-100	-	-	1.3
4/F	WC1D	C60	200	T20-125	T10-100	-	-	1.3
4/F	WC2	C60	200	T20-125	T10-100	-	-	1.3
4/F	WC2D	C60	200	T20-125	T10-100	-	-	1.3
4/F	WC6	C60	200	T20-125	T10-100	-	-	1.3



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	BD REF : BIM REF :
ND.	
BINDERS:	
HORIZONTAL BAR	
BINDER T10-200	
BAR DIAMETER HORIZONTAL SPACING	
_ DETAIL OF WALL	
(N.T.S.)	
	PROJECT
	CIC SAMPLE PROJECT
	DRAWING TITLE
	WALL R.C. DETAIL (1 OF 2)
	SCALE AS SHOWN@A1
	S006
	SOURCE
	90mm (W) x 40mm (H) space
	90mm (W) x 40mm (H) space for COMPANY LOGO
	90mm (W) x 40mm (H) space for COMPANY LOGO
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DRAWING WALL SCALE DRAWING S007	G TITLE R.C.	DETAI HOWN	L (Schedule) @A1 REV. NO.
DRAWING WALL SCALE DRAWING SOURCE	G TITLE - R.C. AS SI G NO.	DETAI	L (Schedule) @A1 REV. NO.
DRAWING WALL SCALE DRAWING SOURCE	G TITLE - R.C. AS SI G NO.	DETAI HOWN	L (Schedule) @A1 REV. NO.
DRAWING WALL SCALE DRAWING SOURCE	G TITLE - R.C. AS SI G NO.	DETAI HOWN 90mm (W for COMF	L (Schedule) @A1 REV. NO.
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DRAWING WALL SCALE DRAWING SOURCE	G TITLE R.C.	DETAI HOWN 90mm (W for COMF	L (Schedule) @A1 REV. NO. /) x 40mm (H) space PANY LOGO
DRAWING WALL SCALE DRAWING SOURCE	G TITLE R.C.	DETAI HOWN 90mm (W for COMF 90mm (W for AP/RS signature	L (Schedule) @A1 REV. NO. /) x 40mm (H) space PANY LOGO
DRAWING WALL SCALE DRAWING SOURCE	G TITLE R.C. AS SI G NO.	DETAI HOWN 90mm (W for COMF 90mm (W for AP/RS signature	L (Schedule) @A1 REV. NO. /) x 40mm (H) space PANY LOGO /) x 60mm (H) space SE/RGE's / and stamp chop
DRAWING WALL SCALE DRAWING SOURCE SOURCE	G TITLE R.C. AS SI G NO.	DETAI HOWN 90mm (W for COMF 90mm (W for AP/RS signature	L (Schedule) @A1 REV. NO. /) x 40mm (H) space PANY LOGO
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DRAWING WALL SCALE DRAWING SOURCE	G TITLE R.C. AS SI G NO.	DETAI HOWN 90mm (W for COMF 90mm (W for AP/RS signature.	L (Schedule) @A1 REV. NO. /) x 40mm (H) space PANY LOGO /) x 60mm (H) space SE/RGE's / and stamp chop
DRAWING WALL SCALE DRAWING SOURCE	G TITLE R.C. AS SI G NO.	DETAI HOWN 90mm (W for COMF 90mm (W for AP/RS signature, JSE	L (Schedule) @A1 REV. NO. /) x 40mm (H) space PANY LOGO /) x 60mm (H) space SE/RGE's / and stamp chop
DRAWING WALL SCALE DRAWING SOURCE BD'S OF	G TITLE R.C. AS SI G NO.	DETAI HOWN 90mm (W for COMF 90mm (W for AP/RS signature JSE	L (Schedule) @A1 REV. NO. () x 40mm (H) space PANY LOGO () x 60mm (H) space SE/RGE's / and stamp chop
DRAWING WALL SCALE DRAWING SOURCE	G TITLE R.C. AS SI G NO.	DETAI HOWN 90mm (W for COMF 90mm (W for AP/RS signature JSE 90mm (W for BD's a capproved	L (Schedule) @A1 REV. NO. () x 40mm (H) space ANY LOGO () x 60mm (H) space SE/RGE's / and stamp chop () x 150mm (H) space SE/RGE's / / and stamp chop
DRAWING WALL SCALE DRAWING SOURCE	G TITLE R.C. AS SI G NO.	DETAI HOWN 90mm (W for COMF 90mm (W for AP/RS signature JSE 90mm (W for BD's a certificatio approved (PNAP AI	L (Schedule) @A1 REV. NO. () x 40mm (H) space ANY LOGO () x 60mm (H) space SE/RGE's / and stamp chop () x 150mm (H) space SE/RGE's / and stamp chop
DRAWING WALL SCALE DRAWING SOURCE	G TITLE R.C. AS SI G NO.	90mm (W for COMF 90mm (W for AP/RS signature JSE 90mm (W for AP/RS signature	L (Schedule) @A1 REV. NO. /) x 40mm (H) space ANY LOGO /) x 60mm (H) space SE/RGE's / and stamp chop /) x 150mm (H) space SE/RGE's / and stamp chop
DRAWING WALL SCALE DRAWING SOURCE BD'S OF	G TITLE R.C. AS SI G NO.	DETAI HOWN 90mm (W for COMF 90mm (W for AP/RS signature JSE 90mm (W for BD's a certificatio approved (PNAP Al	L (Schedule) @A1 REV. NO. () x 40mm (H) space >ANY LOGO () x 60mm (H) space SE/RGE's / and stamp chop () x 150mm (H) space SE/RGE s / and stamp chop

[								
R.C. WALL SCHEDULE								
FLOOR	WALL MARK	CONCRETE GRADE	THICKNESS (mm)	VERTICAL BARS	HORIZONTAL BARS	BIN	DER VERTICAL	STEEL RATIO (%)
4/F	W1	C60	250	T40-150	T10-150	T12-300	150	3.4
4/F	W2	C60	250	T25-125	T12-125	-	-	1.3
4/F	W3	C60	200	T20-125	T10-100	-	-	1.3
4/F	W4	C60	150	T20-150	T10-150	-	-	1.4
4/F	W4	C60	200	T20-125	T10-100	-	-	1.3
4/F	W5A	C60	200	T20-125	T10-100	-	-	1.3
4/F	W5A	C60	250	T25-125	T12-125	-	-	1.6
4/F	W5B	C60	150	T20-100	T10-150	T12-200	150	2.1
4/F	W5C	C60	200	T20-125	T10-100	-	-	1.3
4/F	W5C	C60	250	T25-125	T12-125	-	-	1.6
4/F	W5D	C60	150	T20-125	T10-150	-	-	1.7
4/F	W5E	C60	200	T20-125	T10-100	-	-	1.3
4/F	W5E	C60	250	T25-125	T12-125	-	-	1.6
4/F	W5F	C60	150	T20-100	T10-150	T12-200	150	2.1
4/F	W5G	C60	200	T20-125	T10-100	-	-	1.3
4/F	W5G	C60	250	T32-175	T12-125	-	-	1.8
4/F	W6	C60	200	T25-150	T10-100	-	-	1.6
4/F	W6	C60	250	T20-125	T12-125	-	-	1.0
4/F	W6	C60	300	T32-100	T10-150	T12-200	150	2.1
4/F	W7	C60	250	T25-150	T12-125	-	-	1.3
4/F	W8	C60	250	T32-175	T12-125	-	-	1.8
4/F	W9	C60	200	T20-125	T10-100	-	-	1.3
4/F	W10	C60	150	T20-150	T10-150	-	-	1.4
4/F	W10	C60	200	T20-125	T10-100	-	-	1.3
4/F	WC1D	C60	200	T20-125	T10-100	-	-	1.3
4/F	WC2	C60	200	T20-125	T10-100	-	-	1.3
4/F	WC2D	C60	200	T20-125	T10-100	-	-	1.3
4/F	WC6	C60	200	T20-125	T10-100	-	-	1.3





![](_page_7_Figure_5.jpeg)

![](_page_8_Figure_0.jpeg)

1 TYP FLOOR SLAB R.C. DETAILS

BIM REF		
	:	
REV	DATE	AMENDMENT
PROJEC	Г	
CICS		) IFCT
SCALE	1 · 100@A1	
		REV NO
5009	)	
SUID? 1		
JUUKUE		
JUUKUE		
	00 44	0
	90mm (M for COMI	V) x 40mm (H) space PANY LOGO
	90mm (M for COMI	V) x 40mm (H) space PANY LOGO
	90mm (M for COMI	V) x 40mm (H) space PANY LOGO
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	90mm (W for COMI	√) x 40mm (H) space PANY LOGO
	90mm (M for COM	V) x 40mm (H) space PANY LOGO
	90mm (M for COMI	V) x 40mm (H) space PANY LOGO
	90mm (M for COMI	√) x 40mm (H) space PANY LOGO √) x 60mm (H) space
	90mm (M for COM 90mm (M for AP/R signature	v) x 40mm (H) space PANY LOGO v) x 60mm (H) space SE/RGE's
	90mm (M for COM 90mm (M for AP/R signature	/) x 40mm (H) space PANY LOGO /) x 60mm (H) space SE/RGE's // and stamp chop
	90mm (M for COMI 90mm (M for AP/RS signature	/) x 40mm (H) space PANY LOGO /) x 60mm (H) space SE/RGE's // and stamp chop
	90mm (M for COMI 90mm (M for AP/R signature	V) x 40mm (H) space PANY LOGO V) x 60mm (H) space SE/RGE's V and stamp chop
	90mm (M for COMI 90mm (M for AP/RS signature	V) x 40mm (H) space PANY LOGO V) x 60mm (H) space SE/RGE's V and stamp chop
BD's Of	90mm (M for COMI 90mm (M for AP/R signature	V) x 40mm (H) space PANY LOGO V) x 60mm (H) space SE/RGE's V and stamp chop
BD's OF	90mm (M for COMI 90mm (M for AP/R signature	/) x 40mm (H) space PANY LOGO /) x 60mm (H) space SE/RGE's // and stamp chop
BD's Of	90mm (M for COM 90mm (M for AP/R signature	/) x 40mm (H) space PANY LOGO /) x 60mm (H) space SE/RGE's // and stamp chop
BD's Of	90mm (M for COM 90mm (M for AP/R signature	/) x 40mm (H) space PANY LOGO /) x 60mm (H) space SE/RGE's / and stamp chop
BD's Of	90mm (M for COM 90mm (M for AP/R signature	<i>I</i> ) x 40mm (H) space PANY LOGO <i>I</i> ) x 60mm (H) space SE/RGE's <i>I</i> and stamp chop
BD's Of	90mm (M for COMI 90mm (M for AP/R signature	<i>I</i> ) x 40mm (H) space PANY LOGO <i>I</i> ) x 60mm (H) space SE/RGE's <i>I</i> and stamp chop
BD's Of	90mm (M for COMI 90mm (M for AP/RS signature	v) x 40mm (H) space PANY LOGO v) x 60mm (H) space SE/RGE's v/ and stamp chop
BD's Of	90mm (M for COMI 90mm (M for AP/R signature	v) x 40mm (H) space         PANY LOGO         v) x 60mm (H) space         SE/RGE's         v/ and stamp chop
BD's Of	90mm (M for COM 90mm (M for AP/R signature	/) x 40mm (H) space PANY LOGO /) x 60mm (H) space SE/RGE's / and stamp chop
BD's Of	90mm (M for COM 90mm (M for AP/R signature	<pre>/) x 40mm (H) space PANY LOGO /) x 60mm (H) space SE/RGE's // and stamp chop</pre>
BD's Of	90mm (M for COMI 90mm (M for AP/RS signature FICAL USE	<pre>/) x 40mm (H) space PANY LOGO /) x 60mm (H) space SE/RGE's // and stamp chop // and stamp chop</pre>
BD's Of	90mm (M for COM 90mm (M for AP/R signature	<ul> <li><i>v</i>) x 40mm (H) space</li> <li><i>v</i>) x 60mm (H) space</li> <li><i>s</i>E/RGE's</li> <li><i>v</i>/ and stamp chop</li> <li><i>v</i>) x 150mm (H) space</li> <li><i>s</i>approval stamp / on copies of</li> </ul>
BD's Of	90mm (M for COMI 90mm (M for AP/R signature FICAL USE FICAL USE	<ul> <li><i>I</i>) x 40mm (H) space PANY LOGO</li> <li><i>I</i>) x 60mm (H) space SE/RGE's / and stamp chop</li> <li><i>I</i>) x 150mm (H) space approval stamp / on of copies of I plans DM-10 APP A)</li> </ul>
BD's Of	90mm (M for COMI 90mm (M for AP/RS signature *FICAL USE *FICAL USE *FICAL USE 90mm (M for BD's a certificati approved (PNAP A	<ul> <li><i>I</i>) x 40mm (H) space PANY LOGO</li> <li><i>I</i>) x 60mm (H) space SE/RGE's / and stamp chop</li> <li><i>I</i>) x 150mm (H) space approval stamp / on of copies of i plans DM-10 APP A)</li> </ul>
BD's Of	90mm (M for COMI 90mm (M for AP/Rs signature FICAL USE FICAL USE	<ul> <li><i>I</i>) x 40mm (H) space PANY LOGO</li> <li><i>I</i>) x 60mm (H) space SE/RGE's / and stamp chop</li> <li><i>I</i>) x 150mm (H) space approval stamp / on of copies of i plans DM-10 APP A)</li> </ul>
BD's Of	90mm (M for COM 90mm (M for AP/R signature FICAL USE	<ul> <li><i>I</i>) x 40mm (H) space PANY LOGO</li> <li><i>I</i>) x 60mm (H) space SE/RGE's / and stamp chop</li> <li><i>I</i>) x 150mm (H) space approval stamp / on of copies of i plans DM-10 APP A)</li> </ul>
BD's Of	90mm (M for COMI 90mm (M for AP/R signature FICAL USE FICAL USE	<pre>/) x 40mm (H) space PANY LOGO /) x 60mm (H) space SE/RGE's // and stamp chop // and stamp chop</pre>
BD's Of	90mm (M for COMI 90mm (M for AP/RS signature FICAL USE FICAL USE	<pre>/) x 40mm (H) space PANY LOGO</pre> // x 60mm (H) space SE/RGE's // and stamp chop // x 150mm (H) space approval stamp / on of copies of t plans DM-10 APP A)
BD's Of	90mm (M for COMI 90mm (M for AP/RS signature FICAL USE FICAL USE	<pre>/) x 40mm (H) space PANY LOGO // x 60mm (H) space SE/RGE's // and stamp chop // and stamp chop</pre>
BD's Of	90mm (M for COM 90mm (M for AP/R signature FFICAL USE FICAL USE 90mm (M for BD's a certificati approvec (PNAP A	<pre>/) x 40mm (H) space PANY LOGO</pre> /) x 60mm (H) space SE/RGE's // and stamp chop // and stamp chop // and stamp / on of copies of 4 plans DM-10 APP A)
BD's Of	90mm (M for COM 90mm (M for AP/R signature FICAL USE FICAL USE	<pre>/) x 40mm (H) space PANY LOGO</pre> /) x 60mm (H) space SE/RGE's // and stamp chop // x 150mm (H) space approval stamp / on of copies of t plans DM-10 APP A)
BD's Of	90mm (M for COM 90mm (M for AP/R signature FICAL USE FICAL USE	<pre>/) x 40mm (H) space PANY LOGO // x 60mm (H) space SE/RGE's // and stamp chop // and stamp chop // and stamp / on of copies of 1 plans DM-10 APP A)</pre>

![](_page_9_Figure_0.jpeg)

![](_page_9_Figure_1.jpeg)

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4/F +23.200

4 ST-02 (250) 1:25

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<b>REV</b>	DATE AMENDMENT	
	IIILE	
STAIRC	CASE R.C. DETAIL	
STAIRC	CASE R.C. DETAIL	
	S SHOWN@A1 NO. REV. NO.	
STAIRC SCALE A DRAWING N S010 SOURCE	S SHOWN@A1 NO. REV. NO.	
STAIRC SCALE A DRAWING N S010 SOURCE	S SHOWN@A1 NO. REV. NO.	
STAIRC SCALE AS DRAWING N SOURCE	S SHOWN@A1 NO. REV. NO.  90mm (W) x 40mm (H) space for COMPANY LOGO	
STAIRC SCALE AS DRAWING N SOURCE	S SHOWN@A1 NO. REV. NO.  90mm (W) x 40mm (H) space for COMPANY LOGO	
STAIRC SCALE A DRAWING N SOURCE	S SHOWN@A1 NO. REV. NO.  90mm (W) x 40mm (H) space for COMPANY LOGO	
STAIRC SCALE A DRAWING N SOURCE	S SHOWN@A1 NO. REV. NO. 90mm (W) x 40mm (H) space for COMPANY LOGO 90mm (W) x 60mm (H) space for AP/RSE/RGE's signature/ and stamp chop	
STAIRC SCALE A DRAWING N SOURCE	S SHOWN@A1 No. REV. NO.  90mm (W) x 40mm (H) space for COMPANY LOGO 90mm (W) x 60mm (H) space for AP/RSE/RGE's signature/ and stamp chop	
STAIRC SCALE A DRAWING N SOURCE	S SHOWN@A1 NO. REV. NO.  90mm (W) x 40mm (H) space for COMPANY LOGO 90mm (W) x 60mm (H) space for AP/RSE/RGE's signature/ and stamp chop	
STAIRC SCALE A DRAWING N SOURCE BD's OFFI	S SHOWN@A1   NO.   POmm (W) x 40mm (H) space for COMPANY LOGO     90mm (W) x 60mm (H) space for AP/RSE/RGE's signature/ and stamp chop     CAL USE	
STAIRC SCALE A DRAWING N SOURCE BD's OFFI	S SHOWN@A1 NO. REV. NO.  90mm (W) x 40mm (H) space for COMPANY LOGO 90mm (W) x 60mm (H) space for AP/RSE/RGE's signature/ and stamp chop	
STAIRC SCALE A DRAWING N SOURCE BD's OFFI	SSHOWN@A1   NO.   POmm (W) x 40mm (H) space for COMPANY LOGO     90mm (W) x 60mm (H) space for AP/RSE/RGE's signature/ and stamp chop   CAL USE	
STAIRC SCALE AS DRAWING N SOURCE BD'S OFFI	S SHOWN@A1 NO. REV. NO.  90mm (W) x 40mm (H) space for COMPANY LOGO 90mm (W) x 60mm (H) space for AP/RSE/RGE's signature/ and stamp chop CAL USE	
SCALE AS SCALE AS DRAWING N SOURCE BD'S OFFI	SSHOWN@A1         NO.       REV. NO.          90mm (W) x 40mm (H) space for COMPANY LOGO         90mm (W) x 60mm (H) space for AP/RSE/RGE's signature/ and stamp chop         CAL USE         90mm (W) x 150mm (H) space for BD's approval stamp / certification of cooies of	
SCALE AS SCALE AS DRAWING N SOURCE BD'S OFFI	SSER.C. DETAIL         SSHOWN@A1         NO.       REV. NO.          90mm (W) x 40mm (H) space for COMPANY LOGO         90mm (W) x 60mm (H) space for AP/RSE/RGE's signature/ and stamp chop         Quertification of copies of approval stamp / certification of copies of approval stamp / certification of copies of approved plans (PNAP ADM-10 APP A)	
SCALE AS SCALE AS DRAWING N SOURCE BD'S OFFI	S SHOWN@A1   NO.   REV. NO.   90mm (W) x 40mm (H) space for COMPANY LOGO     90mm (W) x 60mm (H) space for AP/RSE/RGE's signature/ and stamp chop   CAL USE   CAL USE     90mm (W) x 150mm (H) space for BD's approval stamp / certification of copies of approved plans (PNAP ADM-10 APP A)	

![](_page_10_Figure_0.jpeg)

<b>rev</b> PROJEC	<b>DATE</b>	AMENDMENT
CICS	Sample Pro	DJECT
SCALE	1 : 50@A1	
drawin S011	g no.	REV. NO.
SOURCE		
JUNCE		
	90mm (V for COM	V) x 40mm (H) space PANY LOGO
	90mm (V for COM	V) x 40mm (H) space PANY LOGO
	90mm (V for COM 90mm (V for AP/R signature	V) x 40mm (H) space PANY LOGO V) x 60mm (H) space SE/RGE's e/ and stamp chop
BD's O	90mm (V for COM 90mm (V for AP/R signature	V) x 40mm (H) space PANY LOGO V) x 60mm (H) space SE/RGE's e/ and stamp chop
BD's O	90mm (v for COM 90mm (v for AP/R signature	V) x 40mm (H) space PANY LOGO V) x 60mm (H) space SE/RGE's e/ and stamp chop
BD's O	90mm (v for COM 90mm (v for AP/R signature FFICAL USE FFICAL USE 90mm (v for BD's certificat approve (PNAP A	V) x 40mm (H) space PANY LOGO V) x 60mm (H) space SE/RGE's e/ and stamp chop V) x 150mm (H) space approval stamp / ion of copies of d plans VDM-10 APP A)

![](_page_11_Figure_0.jpeg)

ULTIMATE ANCHORAGE BO	OND LENGTHS				
		REINFORCE	REINFORCEMENT TYPES		
TYPE OF ANCHORAGE LENGTH	fy 250 N/mm <sup>2</sup>	500	fy N/mm <sup>2</sup>		
		RIBBED	FABRIC		
TENSION	36	40	31		
COMPRESSION	29	32	25		
TENSION	33	- 38			
COMPRESSION	27	30	-23		
TENSION	31	35			
COMPRESSION	25	28			
TENSION	29	33			
COMPRESSION	24	26			
TENSION	28	31	- 24 -		
COMPRESSION	22	25	19		
TENSION	26	28			
COMPRESSION	20	23			
	ULTIMATE ANCHORAGE B TYPE OF ANCHORAGE LENGTH TENSION COMPRESSION -TENSION -COMPRESSION -TENSION COMPRESSION TENSION COMPRESSION -TENSION COMPRESSION -TENSION COMPRESSION -COMPRESSION	ULTIMATE ANCHORAGE BOND LENGTHSTYPE OF ANCHORAGE LENGTHfy 250 N/mm²TENSION36COMPRESSION29TENSION33COMPRESSION27TENSION31COMPRESSION25TENSION29COMPRESSION24TENSION24TENSION22TENSION22TENSION26COMPRESSION20	ULTIMATE ANCHORAGE BOND LENGTHSTYPE OF ANCHORAGE LENGTHfy 250 N/mm²REINFORCETENSION3640COMPRESSION2932TENSION3338COMPRESSION2730TENSION3135COMPRESSION2528TENSION2933COMPRESSION2426TENSION2426TENSION2831COMPRESSION2225TENSION2628COMPRESSION2023		

			REINFORCE	MENT TYPES
	TYPE OF	fy	500	fy
RADE	ANCHORAGE LENGTH	250 N/mm <sup>2</sup>	500 N	N/mm <sup>2</sup>
			RIBBED	FABRIC
00	TENSION AND COMPRESSION LAP LENGTH - Io	36	40	31
30	1.4 x TENSION LAP	50	56	44
	2.0 x TENSION LAP	71	80	62
	TENSION AND COMPRESSION	-33		
-35-	1.4 x TENSION LAP	46	52	40
	2.0 x TENSION LAP	66		<del>57</del>
	TENSION AND COMPRESSION- LAP LENGTH - Io	-31		
-40	-1.4 x TENSION LAP	43	49	
	2.0 x TENSION LAP	62	70	
	TENSION AND COMPRESSION LAP LENGTH - Io	29	33	— <del>25</del> —
45	1.4 x TENSION LAP	41	47	<del>-35</del>
	2.0 x TENSION LAP	58	66	-50
50	-TENSION AND COMPRESSION- LAR LENGTH - Io	-28		<del>24</del>
-50-	1.4 x TENSION LAP	39	44	34
	2.0 x TENSION LAP	55	62	
<b>&gt;60</b>	TENSION AND COMPRESSION LAP LENGTH - IO	26	28	<del>_22</del>
300	1.4 x TENSION LAP	36	40	-31
	2.0 x TENSION LAP	51	56	-44

DESIGNATION (DESIGNED MIX CONC.)	ELEMENT OF CONSTRUCTION
GRADE 60D/20	ALL BEAMS, COLUMNS, SHEAR WALLS UNDER G/F, & TRANSFER BEAMS
GRADE 60D/20 WATERPROOF	BASEMENT COLUMNS
GRADE 45D/20 WATERPROOF	WATER TANKS, FUEL TANKS, SEWAGE TANKS BASEMENT STRUCTURE EXCEPT COLUMN
GRADE 45D/20	ALL SLABS, STAIRCASES, BEAMS, SHEAR WALLS OVER G/F, HANGER WALL, BEARING WALL, GRAVITY TOE WALL, PLINTH. ON-GRADE SLAB, PARTITION WALL & NON-STRUCTURAL ELEMENT ETC.
GRADE 30D/20	ON-GRADE SLAB
GRADE 60D/20 WATERPROOF 1	BASEMENT COLUMNS
a. THE REACTIVE ALKALI OF CONC OXIDE PER CUBIC METRE OF CO DETERMINED IN ACCORDANCE	CRETE EXPRESSED AS THE EQUIVALENT SODIUM DNCRETE SHOULD NOT EXCEED 3.0 kg WHEN WITH THE SPECIFICATION ITEMS GIVEN IN APPENDIX

A	LL WATER TANK SHOU	JLD PROVIDED OVE	RFLOW DEVICE TO	PREVENT OVERFLOW	V.
L	EGEND:				
н	B HORIZONTAL BAR		D BAR DIAMET	ſER	t THICKNES
V	B VERTICAL BAR		RA RADIUS OF	BEND	TYP TYPICAL
Е	F EACH FACE		R MILD STEEL		MIN MINIMUN
В	F BOTH FACE		T HIGH TENSI	LE STEEL	MAX MAXIMU
Т	LL TENSION LAP LENG	GTH	H DEPTH OF E	BEAM	APP APPROX
Т	AL TENSION ANCHOR	AGE LENGTH	d THICKNESS	OF SLAB	STR STRUCT
lo	LAP LENGTH		V CANTILEVE	R STRUCTURAL ELEN	1ENT
	ELEMENT OF	<del>-F.R.R.</del>	F.R.R.	F.R.R.	REMA
	CONSTRUCTION	— <del>60/60/60</del> —	120/120/120	240/240/240	
	SLABS	<del>30</del>	35 (30)	* 55 (45)	() FOR CC 40 FOR CANO CANTILEVER STRUCTURES
		<del>{25}</del>			{ } FOR INT OTHER TH AND KITCH
	BEAMS	<del></del>	* 50 (40)	* 80 (60)	() FOR CO

	COLUMNS, POST	<del>40</del>	40	40	
	SHEAR WALL,	<del>30</del>	35	35	
	R.C. WALLS	<del>30</del>	35	35	
Ast/2	STAIRCASES	-30-	35	* 55	
<b></b>	-SWIMMING POOL,	-40	40	-40-	- <del>50 (F</del>

![](_page_11_Figure_67.jpeg)

STRICTLY ACCORDING (BD REF: BD-D067 120m

	3D REF : 	
١L		
	rev date /	AMENDMENT
	CIC SAMPLE PROJECT	
VALL		
	DRAWING TITLE	
≣	Typical Detail 1	
	SCALE	
OJECTING	DRAWING NO.	REV. NO.
EATURES L SLABS		
TH ROOM		
	90mm (W) x 40mm (H) si	pace
	for COMPANY LOGO	
ARTH) —		
VATER)	90mm (W) x 60mm (H) s	pace
	for AP/RSE/RGE's signature/ and stamp cho	ιp
FIRESTOP		
C ED WITH	BD's OFFICAL USE	
in FRP.)		
<u>ns</u>		
20 N	90mm (W) x 150mm (H) :	space
	for BD's approval stamp / certification of copies of	
	approved plans (PNAP ADM-10 APP A)	
HE NEAR		
JRE /ERED TO		
HORAGE		
IALL		

![](_page_12_Figure_0.jpeg)

![](_page_13_Figure_0.jpeg)

![](_page_14_Figure_0.jpeg)

\_4.1 + +4.0 LEEKIS AM 19.3  $\leq$ XX NO.978 12.7 STREE NO.976 NO.974 NO.972 N ROAD NO.970 NO.968 NO.966 NO.964 SITE 3.8 TEHISMMM 3.7 3.4

**BLOCK PLAN** 1 : 500

GENERAL NOTES FOR STRUCTURAL STEEL WORKS:

 UNLESS NOTED OTHERWISE, ALL STRUCTURAL STEEL WORKS SHALL BE GRADE S355 J0 COMPLYING WITH BS EN 10025:2004 (Py = 355 MPa) EXCEPT HOLLOW SECTION TO BS EN 20210 AND CLASS 1 COMPLYING WITH CODE OF PRACTICE FOR THE STRUCTURAL USE OF STEEL 2011.

 ALL STEELWORK SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH CODE OF PRACTICE FOR THE STRUCTURAL USE OF STEEL 2011. STRUCTURAL USE OF STEEL MATERIALS PROPERTIES SHALL COMPLY WITH BS EN 10025:2004, FOR PERMANENT STRUCTURES. MINIMUM DESIGN STRENGTH ARE AS FOLLOWS:

GRADE	THICKNESS LESS THAN OR EQUAL TO (mm)	DESIGN STRENGTH N/mm <sup>2</sup>
S355	16	355

\* THE STRUCTURAL STEEL ARE CLASSIFIED AS CLASS 1 IN ACCORDANCE WITH CODE OF PRACTICE FOR THE STRUCTURAL USE OF STEEL 2011.

3. THE STEELWORK CONTRACTOR IS RESPONSIBLE FOR ENSURING THE STEEL HAS ADEQUATE THROUGH THICKNESS PROPERTIES TO SATISFY THE REQUIREMENTS OF HIS WELDING PROCEDURES AND WELDING SEQUENCE AND THAT THE MATERIAL AT OR ADJACENT TO WELDED LOCATIONS IS FREE OF LAMINATIONS, CENTRELINE SEGREGATION, OR OTHER CRACK LIKE INDICATIONS ON COMPLETION OF WELDING. THE STEELWORK CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE QUALITY CLASS OF STEEL WITH ENHANCED THROUGH THICKNESS PROPERTIES WHICH MAY BE REQUIRED TO BE COMPATIBLE WITH HIS CHOSEN METHOD OF WORKING.

4. ANY DAMAGED SURFACES OF GALVANISED STEEL SHALL BE COATED WITH ANTI-CORROSIVE COLD GALVANISED PRIMER PRIOR TO PAINTING.

 PRIOR TO ERECTION ALL STEELWORK SHALL BE SPRAY WASHED WITH WATER AND DETERGENT THEN SPRAY RINSED WITH CLEAN WATER. THEY SHOULD BE FREE FROM RUST, GREASE AND LOOSING SCALES BEFORE APPLICATION OF SURFACE PROTECTION.

6. THE CONTRACTOR SHOULD EMPLOY QUALIFIED WELDERS WITH VALID WELDING CERTIFICATE.

 ALL WELDING WORK SHALL BE CARRIED OUT BY CERTIFIED WELDERS TESTED BY A HOKLAS APPROVED LABORATORY TO BS EN 15614-8:2002 ALL WELDING WORK TO COMPLY WITH BS EN 1011 SITE WELDING SHALL ONLY BE CARRIED OUT WITH PRIOR WRITTEN CONSENT OF THE ARCHITECT.

8. ALL WELD AND BLOT CONNECTIONS SHALL BE INSPECTED BY THE ENGINEER BEFORE BEING COVERED UP AND REPRESENTATIVELY TESTED TO THE SATISFACTORY OF THE ENGINEER.

9. THE WELDING STANDARDS SHALL BE IN ACCORDANCE WITH BS EN 1011 PART 1:2009 AND PART 2:2001.

10. THE WELDING PROCEDURES SHALL BE IN ACCORDANCE WITH BS EN ISO 15614 PART 1: 2004 AND PART 8:2002.

11. THE WELDERS SHALL BE APPROVED IN ACCORDANCE WITH BS EN 287 PART 1:2004.

12. THE WELDING TESTS SHALL BE N ACCORDANCE WITH BS EN 1714:1998 AND BS EN ISO 9934 PART 1:2001.

13. UNLESS NOTED OTHERWISE, ALL WELDING SHALL BE 6mm CONTINUOUS FILLET WELD ALL ROUND.

14. ABBREVIATIONS FOR WELDING :- \ FOR REFERENCE ONLY FW -FILLET WELD

FPBW-FULL PENETRATION BUTT FILLET WELDPPBW-PARTIAL PENETRATION BUTT FILLET WELD

15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROVISION OF ALL SHIMMING/PACKING REQUIRED TO ACHIEVE ADEQUATE TOLERANCE AT THE CONNECTIONS.

16. THE CONTRACTOR SHOULD VERIFY THE SETTING OUT DIMENSIONS ON STRUCTURAL AND BUILDING PLANS ON SITE. ANY DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT/ENGINEER BEFORE CONSTRUCTION WORK IS PROCEEDED.

17. THE CONTRACTOR SHOULD SUBMIT THE FABRICATION AND SHOP DRAWING TO THE ENGINEER FOR CHECKING.

18. ALL STEEL WORKS SHALL BE GALVANIZED TO BS EN ISO 1461:2009 WITH MIN. ZINC COATING THICKNESS OF 85 MICRONS AND WITH 2 COATS OF ZINC PRIMER.

19. THE CONTRACTOR SHALL PROVIDE TEMPORARY BRACING TO STABILIZE THE STEEL WORKS DURING ERECTION.

20. ALL EXISTING FINISHES SHALL BE REMOVED PRIOR TO FIXING END PLATES AND ANCHOR BARS.

21. ALL ORDINARY BOLTS SHALL BE ISO GRADE 8.8 BLACK BOLT TO BS 3692:1967, UNLESS NOTED OTHERWISE.

22. ALL EXISTING REINFORCEMENT IN THE EXISTING CONCRETE STRUCTURES SHALL BE LOCATED WITH COVERMETER PRIOR TO DRILLING FOR ANCHOR BAR INSTALLATION. NO STEEL BAR SHALL BE CUT FOR DRILLING.

BIM REF	:	
REV	DATE	AMENDMENT
PROJECT		
CIC SA		JJECI
	TITLE	
STEEL	STRUCTL	
GENEF	(AL NUTE)	5
SCALE		
DRAWING		REV NO
R001	10.	
SOURCE		
	90mm (V	V) x 40mm (H) space
	90mm (V for COM	V) x 40mm (H) space PANY LOGO
	90mm (V for COM	V) x 40mm (H) space PANY LOGO
	90mm (V for COM	V) x 40mm (H) space PANY LOGO
	90mm (V for COM	V) x 40mm (H) space PANY LOGO
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	90mm (V for COM	V) x 40mm (H) space PANY LOGO
	90mm (V for COM	V) x 40mm (H) space PANY LOGO V) x 60mm (H) space
	90mm (V for COM 90mm (V for AP/R	V) x 40mm (H) space PANY LOGO V) x 60mm (H) space SE/RGE's
	90mm (V for COM 90mm (V for AP/R signature	V) x 40mm (H) space PANY LOGO V) x 60mm (H) space SE/RGE's e/ and stamp chop
	90mm (V for COM 90mm (V for AP/R signature	V) x 40mm (H) space PANY LOGO V) x 60mm (H) space SE/RGE's e/ and stamp chop
	90mm (V for COM 90mm (V for AP/R signature	V) x 40mm (H) space PANY LOGO V) x 60mm (H) space SE/RGE's e/ and stamp chop
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BD's OFF	90mm (V for COM 90mm (V for AP/R signature CAL USE	V) x 40mm (H) space PANY LOGO V) x 60mm (H) space SE/RGE's e/ and stamp chop
BD's OFF	90mm (V for COM 90mm (V for AP/R signature CAL USE	V) x 40mm (H) space PANY LOGO V) x 60mm (H) space SE/RGE's e/ and stamp chop
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BD's OFF	90mm (V for COM 90mm (V for AP/R signature	V) x 40mm (H) space PANY LOGO V) x 60mm (H) space SE/RGE's e/ and stamp chop
BD's OFF	90mm (V for COM 90mm (V for AP/R signature ICAL USE	V) x 40mm (H) space PANY LOGO V) x 60mm (H) space SE/RGE's a/ and stamp chop V) x 150mm (H) space approval stamp /
BD's OFF	90mm (V for COM 90mm (V for AP/R signature CAL USE	V) x 40mm (H) space PANY LOGO V) x 60mm (H) space SE/RGE's a/ and stamp chop V) x 150mm (H) space approval stamp / ion of copies of d plans
BD's OFF	90mm (V for COM 90mm (V for AP/R signature ICAL USE	V) x 40mm (H) space PANY LOGO V) x 60mm (H) space SE/RGE's e/ and stamp chop V) x 150mm (H) space approval stamp / ion of copies of d plans NDM-10 APP A)
BD's OFF	90mm (V for COM 90mm (V for AP/R signature ICAL USE	V) x 40mm (H) space PANY LOGO V) x 60mm (H) space SE/RGE's a/ and stamp chop V) x 150mm (H) space approval stamp / ion of copies of d plans VDM-10 APP A)
BD's OFF	90mm (V for COM 90mm (V for AP/R signature ICAL USE	V) x 40mm (H) space PANY LOGO V) x 60mm (H) space SE/RGE's a/ and stamp chop V) x 150mm (H) space approval stamp / ion of copies of d plans ADM-10 APP A)
BD's OFF	90mm (V for COM 90mm (V for AP/R signature ICAL USE	V) x 40mm (H) space PANY LOGO V) x 60mm (H) space SE/RGE's a/ and stamp chop V) x 150mm (H) space approval stamp / ion of copies of d plans \DM-10 APP A)
BD's OFF	90mm (V for COM 90mm (V for AP/R signature ICAL USE	V) x 40mm (H) space PANY LOGO V) x 60mm (H) space SE/RGE's e/ and stamp chop V) x 150mm (H) space approval stamp / ion of copies of d plans NDM-10 APP A)
BD's OFF	90mm (V for COM 90mm (V for AP/R signature ICAL USE	V) x 40mm (H) space PANY LOGO V) x 60mm (H) space SE/RGE's a/ and stamp chop V) x 150mm (H) space approval stamp / ion of copies of d plans \DM-10 APP A)
BD's OFF	90mm (V for COM 90mm (V for AP/R signature ICAL USE	V) x 40mm (H) space PANY LOGO V) x 60mm (H) space SE/RGE's e/ and stamp chop V) x 150mm (H) space approval stamp / ion of copies of d plans VDM-10 APP A)
BD's OFF	90mm (V for COM 90mm (V for AP/R signature ICAL USE	V) x 40mm (H) space PANY LOGO V) x 60mm (H) space SE/RGE's e/ and stamp chop V) x 150mm (H) space approval stamp / ion of copies of d plans ADM-10 APP A)

![](_page_16_Figure_0.jpeg)

![](_page_16_Picture_1.jpeg)

	STEEL BEAM SCHEE	DULE
TYPE MARK	SIZE	STEEL GRADE
SB2	UB152x89x16	S355
SB3	UB203x102x23	S355
SB4	UB356x171x57	S355
SB5	UB457x191x74	S355
SB6	UB533x210x101	S355

SCHE	EDULE OF STEEL COL	LUMN
		OTEEI
MADK	017E	
MARK	SIZE	GRADE
SC2	UB610x305x179	S355

Ş	
Mar	ŀ
CC	1
CC2	2
CC	
CC4	1

CI	HEDULE OF CONCRETE COLUMN
(	SIZE
	300 x 600

LEGEND

PINNED JOINT
 MOMENT JOINT

CONCRETE GRADE OF ALL CONCRETE COLUMNS TO BE C40

![](_page_16_Figure_9.jpeg)

![](_page_17_Figure_0.jpeg)

**1** CONNECTION DETAIL FOR STEEL BEAM

![](_page_17_Figure_1.jpeg)

![](_page_17_Figure_2.jpeg)

![](_page_17_Figure_3.jpeg)

![](_page_17_Figure_4.jpeg)

3 CONNECTION DETAIL FOR STEEL COLUMN AND STEEL BEAM

![](_page_17_Picture_6.jpeg)

![](_page_17_Figure_7.jpeg)

**1B Section 1B** 1 : 10

5 CONNECTION DETAIL FOR CONCRETE SLAB AND STEEL BEAM

6 CONNECTION DETAIL FOR STEEL COLUMN AND PILE CAP

1		
BIM REF :		
REV	DATE	AMENDMENT
DRAWING TITL	E	
DRAWING TITL STEEL ST	e RUCTU	RE DETAIL
DRAWING TITL STEEL ST SCALE As in	E RUCTU	RE DETAIL
DRAWING TITL STEEL ST SCALE As in DRAWING NO.	E RUCTU	RE DETAIL @A1 REV. NO.
DRAWING TITL STEEL ST SCALE As in DRAWING NO. R003	E RUCTU	RE DETAIL @A1 REV. NO.
DRAWING TITL STEEL ST SCALE As in DRAWING NO. R003 SOURCE	E RUCTU	RE DETAIL @A1 REV. NO.
DRAWING TITL STEEL ST SCALE As in DRAWING NO. R003 SOURCE	E RUCTU	@A1 REV. NO.
DRAWING TITL STEEL ST SCALE As in DRAWING NO. R003 SOURCE	E RUCTU ndicated 90mm (W for COMF	PRE DETAIL @A1 REV. NO.
DRAWING TITL STEEL ST SCALE As in DRAWING NO. R003 SOURCE	E RUCTU ndicated	RE DETAIL @A1 REV. NO.
DRAWING TITL STEEL ST SCALE As in DRAWING NO. R003 SOURCE	E RUCTU ndicated 90mm (W for COMF	/) x 40mm (H) space PANY LOGO
DRAWING TITL STEEL ST DRAWING NO. R003 SOURCE	E RUCTU ndicated 90mm (W for COMF 90mm (W for AP/RS signature	RE DETAIL @A1 REV. NO.
DRAWING TITL STEEL ST SCALE As in DRAWING NO. R003 SOURCE	E RUCTU ndicated 90mm (W for COMF 90mm (W for AP/RS signature	RE DETAIL @A1 REV. NO. /) x 40mm (H) space PANY LOGO
DRAWING TITL STEEL ST SCALE As in DRAWING NO. R003 SOURCE	E RUCTU ndicated 90mm (W for COMF 90mm (W for AP/RS signature	RE DETAIL         @A1         REV. NO.         /) x 40mm (H) space         PANY LOGO         /) x 60mm (H) space         SE/RGE's         / and stamp chop
DRAWING TITL STEEL ST SCALE As in DRAWING NO. R003 SOURCE	E RUCTU ndicated 90mm (W for COMF 90mm (W for AP/RS signature	RE DETAIL         @A1         REV. NO.         /) x 40mm (H) space         PANY LOGO         /) x 60mm (H) space         SE/RGE's         / and stamp chop
DRAWING TITL STEEL ST SCALE As in DRAWING NO. R003 SOURCE	E RUCTU ndicated 90mm (W for COMF 90mm (W for AP/RS signature	RE DETAIL         @A1         REV. NO.         /) x 40mm (H) space         PANY LOGO         /) x 60mm (H) space         SE/RGE's         / and stamp chop

![](_page_17_Figure_12.jpeg)

- MS BASE PLATE

T25 REBAR

PILE CAP (UNDER SEPARATE SUBMISSIO

![](_page_18_Figure_0.jpeg)

![](_page_18_Picture_1.jpeg)

![](_page_18_Figure_2.jpeg)

![](_page_18_Figure_3.jpeg)