## GENERAL NOTES FOR REINFORCED CONCRETE STRUCTURE:

DESIGN TO COMPLY WITH:

HONG KONG BUILDING (CONSTRUCTION) REGULATION, 1990
THE STRUCTURAL USE OF CONCRETE, 2013
CODE OF PRACTICE ON WIND EFFECTS, HONG KONG, 2004
CODE OF PRACTICE FOR FIRE SAFETY IN BUILDINGS, 2011

. CÒDE 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 : 2012 MINIMUM CHARACTERISTIC STRENGTH OF : 500MPa FOR HIGH YIELD STEEL BAR GRADE 500**K**), 250MPa FOR MILD STEEL BAR GRADE 250.

4. MINIMUM BOND AP 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

		HIGH DBARS
DIAMETER OF BAR	GRAD	DE 45D
BIANCE LETT OF BATT	ANCH	HORAGE
	TL 33 x Dia.	CL 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 QR LAP LENGTH UNDER COMPRESSION

2. CL = ANCHORAGE LENGTH UNDER COMPRESSION

3. NO SPLICING OF REINFORCEMENT OTHER THAN THOSE SHOWN ON THE DRAWING IS ALLOWED UNLESS OTHERWISE APPROVED BY THE ENGINEER AND TL SHALL BE PROVIDED.

4. NOMINAL LAP AND ANCHORAGE FOR DISTRIBUTION BARS TO BE 300 OR NL 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 LAP 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.

C45/20

5. ALL NOMINAL LAPS OF DISTRIBUTION BAR FOR SLABS AND WALLS SHALL BE 300 MINIMUM UNLÈSS OTHERWISE SPECIFIED.

6. FOR DETAILS OF STRUCTURAL FALLS, SEE APPROPRIATE STRUCTURAL AND ARCHITECTURAL

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
BEAM, SLABS AND WALLS	C45/20
COLUMNS	C45/20

WATER TANKS

8. THE EQUIVALENT SODIUM OXIDE IN CONCRETE MIX SHALL NOT EXCEED 3.0 KG PER CUBIC METER 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

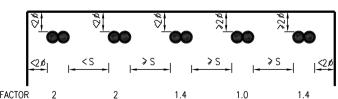
IN CONTACT WITH EARTH	SLAB	STAIR	BEAM	COLUMN	WALL
1.1 CAST ON BLINDING	50	50	50	50	50
1.2 CAST AGAINST SOIL	75	75	75	75	75

## 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.

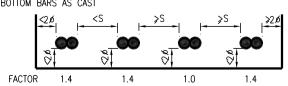
		NCRETE COVER I IN REINFORCEME		NOMINAL COVER FOR
	120 MINS. F.R.P.	60 MINS. F.R.P.	240 MINS. F.R.P.	DURABILITY
SLAB, SIMPLY SUPPORTED	35	25	55*	35
SLAB, CONTINUOUS	25	25	45*	35
STAIR	35	25	55*	35
BEAM, SIMPLY SUPPORTED	50*	30	80*	40
BEAM CONTINUOUS	50	30	60*	40
COLUMN	35	25	35	35
WALL	25	25	25	35
WALL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

\*REINFORCEMENT CONSISTING OF EXPANDED METAL LATH OR A WIRE FABRIC NOT LIGHTER THAN 0.5 kg/m2 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. F.R.P. AS SPECIFIED IN THE GENERAL BUILDING PLANS.

## e.g. TOP BARS AS CAST ( NOTES : O = BAR DIA. )



e.g. BOTTOM BARS AS CAST



NOTE: FOR LAPS IN BOTTOM OF SECTION AS CAST MINIMUM COVER CRITERIA APPLIES TO CORNER BARS ONLY S = 75mm OR &, WHICHEVER IS GREATER

- 12. CONSTRUCTION JOINTS TO BE POSITIONED AS FOLLOWS:
- THE JOINT IN A BEAM TO BE VERTICAL AND AT ONE-THIRD OF THE SPAN.

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

  THE JOINT IN COLUMNS TO BE AT THE UNDERSIDE OF THE LOWEST BEAM OVER THE COLUMNS OR AT 75mm
- 13. CONSTRUCTION JOINTS WHERE NOT SHOWN SHOULD BE LOCATED TO THE APPROVAL OF THE ENGINEER.
- 14. DURING CONSTRUCTION THE STRUCTURE SHOULD BE MAINTAINED IN A STABLE CONDITION AND NO PART SHALL BE OVERSTRESSED.
- 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 BUILDINGS DEPARTMENT, AP AND RSE.
- 19. SPACER BARS SHALL BE OF DIAMETER = 25mm OR DIAMETER OF MAIN BAR WHICHEVER IS GREATER @.5m c/c.
- 20. ALL ROOF SCREEDING TO BE LIGHT WEIGHT CONCRETE OF DENSITY BETWEEN 1600 TO 1700kgg/3 AND MINIMUM CUBE STRENGTH Uw=21Mg/m2 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.)
- 23. ALL DIMENSION ARE IN MILLIMETRE & LEVEL IN mPD EXCEPT OTHERWISE STATED.

15. SIZE OF CONCRETE ELEMENTS DOES NOT INCLUDE THICKNESS OF APPLIED FINISHES.

- 24. ALL EARTH BACKFILLING TO BE COMPACTED TO 95% OF MAX. DRY DENSITY TO BS 1377-TEST 12.
- 25. ALL BENT TO STEEL REINFORCEMENT SHALL COMPLY WITH BS 8666:2000
- 26. THE GENERAL BUILDING PLANS ARE SUBMITTED ON (31-12-2020).

#### NOTES FOR ANNOTATION OF BARS:

- 1. ALL DIMENSIONS SHOWN ARE IN mm.
- 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.
- EXAMPLE: 16T32-200
- NUMBER OF BARS: 16 TYPE OF STEEL: T (HIGH YIELD STEEL BAR GRADE 50**0**\$/ DIAMETER OF BARS: 32mm PITCH OF BARS (IF APPLICABLE): 200 mm

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3. BAR REFERENCING

- EXAMPLE : 16T32-200
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- PITCH OF BARS (IF APPLICABLE): 200 mm

## NOTES FOR CONSTRUCTION OF CANTILEVERED BEAM & SLAB:

- 1. 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 EXTERNAL EDGE OF THE SUPPORTING MEMBERS.
- 2. ADEQUATE BAR SPACERS SHOULD BE PROVIDED TO MAINTAIN THE POSITION AND ALIGNMENT OF THE STEEL REINFORCEMENT.
- 3. DURING CONCRETING, ADEQUATE COMPACTION SHOULD BE GIVEN TO ENSURE GOOD QUALITY CONCRETE. EVERY ENDEAVOUR SHOULD ALSO BE MADE TO AVOID STEEL REINFORCEMENT FROM BEING ✔DISPLACED OR DEPRESSED.
- 4. ALL PROPPING TO THE SOFFIT OF THE FORMWORK FOR THE CANTILEVERED PROJECTIONS SHOULD BE MAINTAINED FOR AT LEAST 14 DAYS.

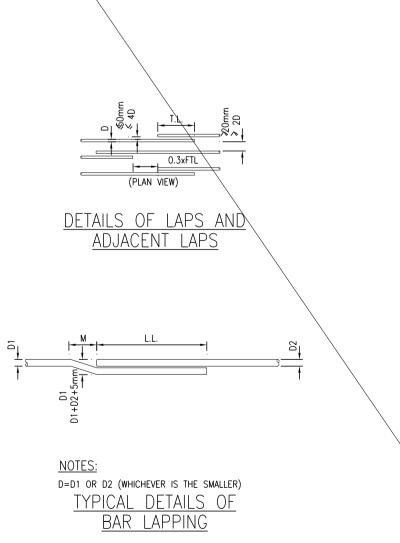
# NOTES FOR WATERPROOFING CONSTRUCTION:

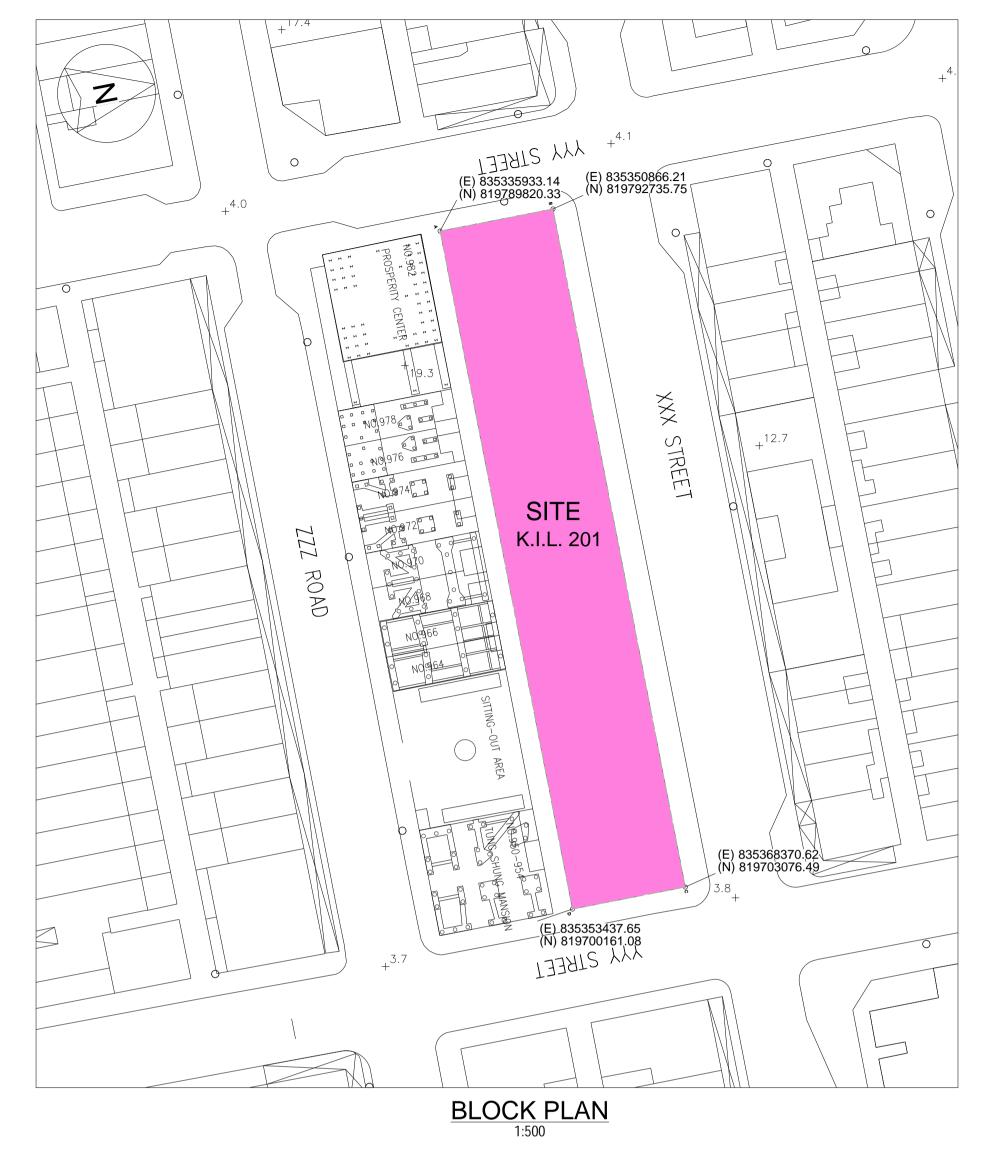
FOR REFERENCE ONL'

- a) 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 BY THE
- b) TYPE OF WATERSTOPS SHALL BE AS SPECIFIED IN THE CONTRACT OR TO THE APPROVAL OF THE c) DETAIL OF FIXING OF WATERSTOPS SHALL BE IN ACCORDANCE WITH THE RECOMMENDATION OF THE MANUFACTURER.
- d) PRIOR TO CONCRETING, THE WATERSTOP SHALL BE NAILED, CLIPPED OR TIED WITH WIRE TO ITS CORRECT POSITION SECURELY AND ADEQUATELY. DETAIL AND SPACING OF SUCH NAILING, CLIPS AN TIES SHALL BE IN ACCORDANCE WITH THE RECOMMENDATION OF THE MANUFACTURER AND TO THE APPROVAL OF THE ENGINEER.

e) CARE SHALL BE TAKEN TO AVOID ANY AIR VOIDS BEING TRAPPED BETWEEN THE WATERSTOP AND THE

- f) SURROUNDING STEEL REINFORCEMENT SHALL NOT BE PLACED IN CONTACT WITH THE WATERSTOP, MINIMUM SPACING TO BE 40mm.
- 2. ALL CONCRETE USED IN WATER RETAINING STRUCTURE SHALL BE WATERPROOFING CONCRETE AND COMPLY WITH BS8007.





REV AMENDMENT PROJECT CIC SAMPLE PROJECT GENERAL NOTES FOR SUPERSTRUCTURE SCALE AS SHOWN@A1 DRAWING NO. SOURCE ---90mm (W) x 40mm (H) space for COMPANY LOGO

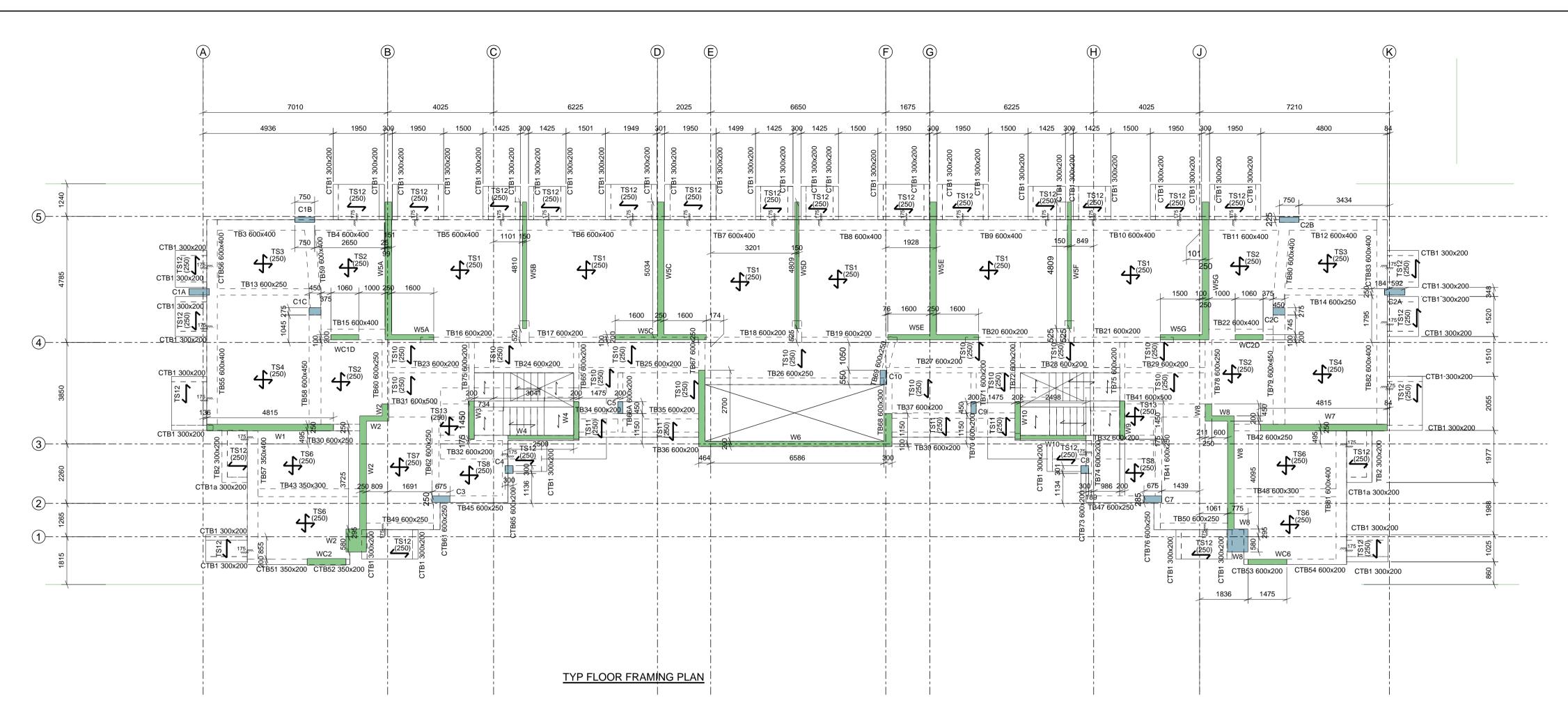
BD REF

BIM REF

90mm (W) x 60mm (H) space for AP/RSE/RGE's signature/ and stamp chop

BD's OFFICAL USE

90mm (W) x 150mm (H) space for BD's approval stamp / certification of copies of approved plans (PNAP ADM-10 APP A)



NOTES

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

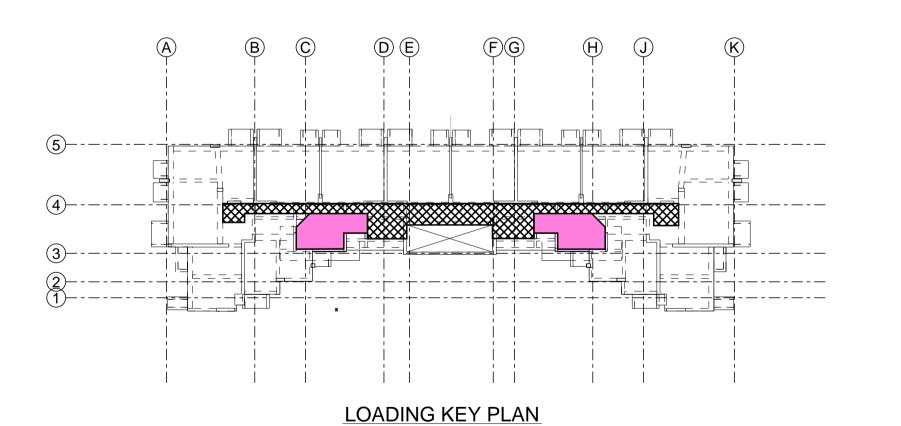
MARK	THICKNESS (mm)
W1	250
W2	200
W2	250
W2	875
W3	200
W4	150
W4	200
W5A	200
W5A	250
W5B	150
W5C	200
W5C	250
W5D	150
W5E	200
W5E	250
W5F	150
W5G	200
W5G	250
W6	200
W6	250
W6	300
W7	250
W8	200
W8	250
W8	875
W9	200
W10	150
W10	200
WC1D	200
WC2	250

WC2D WC6

200

WALL SCHEDULE

COLUN	IN SCHEDULE
MARK	SIZE (mm)
C1A	250x775
C1B	200×750
C1C	275x450
C2A	250x775
C2B	200x750
C2C	275x450
С3	250x675
C4	300×300
C5	450x200
C7	250x675
C8	300×300
C9	450x200
C10	550x250



USAGE	LEGEND	LL (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	0.5	60/60/60
PLANT ROOM		7.5	1.25	60/60/60
FLAT ROOF		5.0	5.60	60/60/60

BD REF :	
BIM REF :	
REV DATE	AMENDMENT
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DRAWING NO. REV. NO. S002

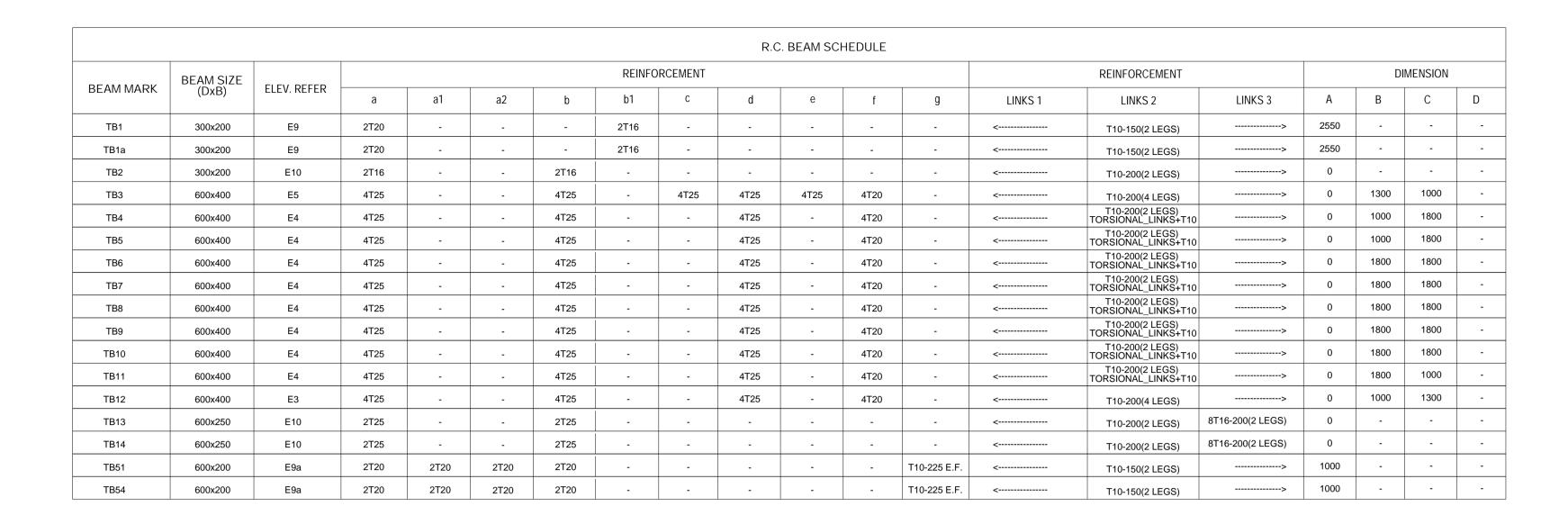
SOURCE ---

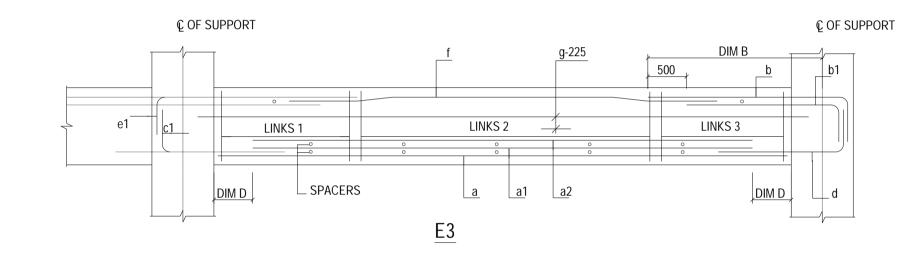
90mm (W) x 40mm (H) space for COMPANY LOGO

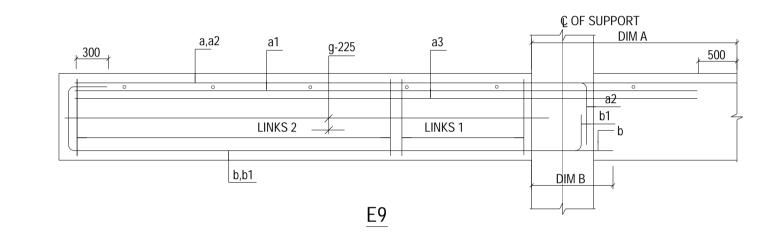
90mm (W) x 60mm (H) space for AP/RSE/RGE's signature/ and stamp chop

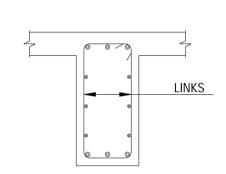
BD's OFFICAL USE

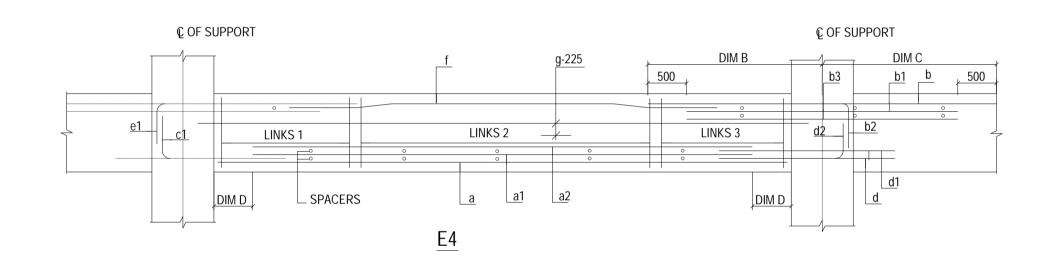
90mm (W) x 150mm (H) space for BD's approval stamp / certification of copies of approved plans (PNAP ADM-10 APP A)

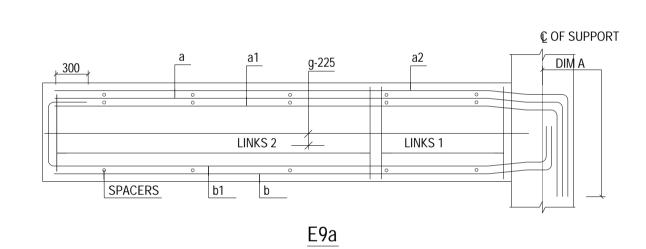


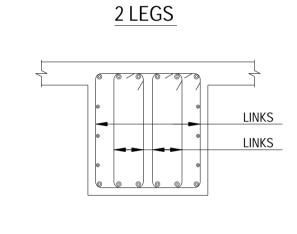




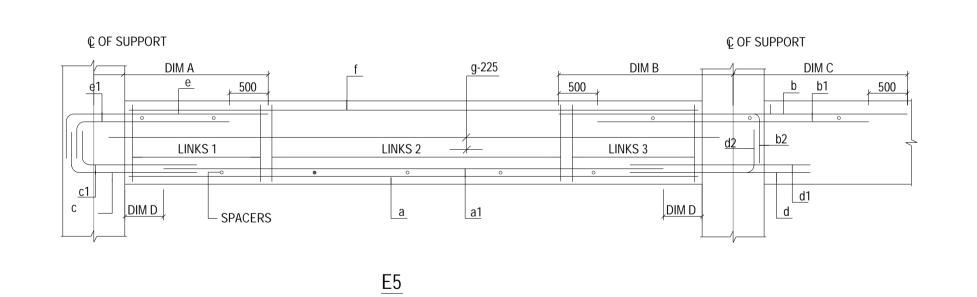


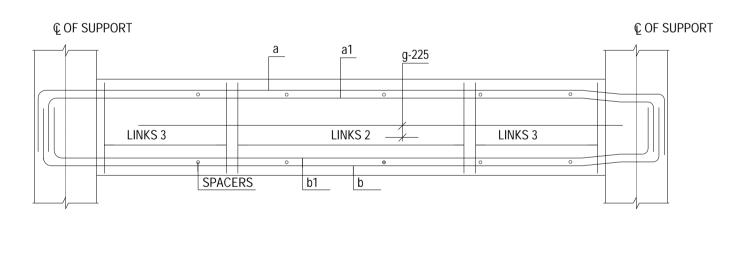






6 LEGS





90mm (W) x 60mm (H) space for AP/RSE/RGE's signature/ and stamp chop

90mm (W) x 40mm (H) space for COMPANY LOGO

AMENDMENT

REV. NO.

<u>E10</u>

BD's OFFICAL USE

PROJECT

DRAWING TITLE

DRAWING NO.

SOURCE ---

CIC SAMPLE PROJECT

BEAM R.C. SCHEDULE

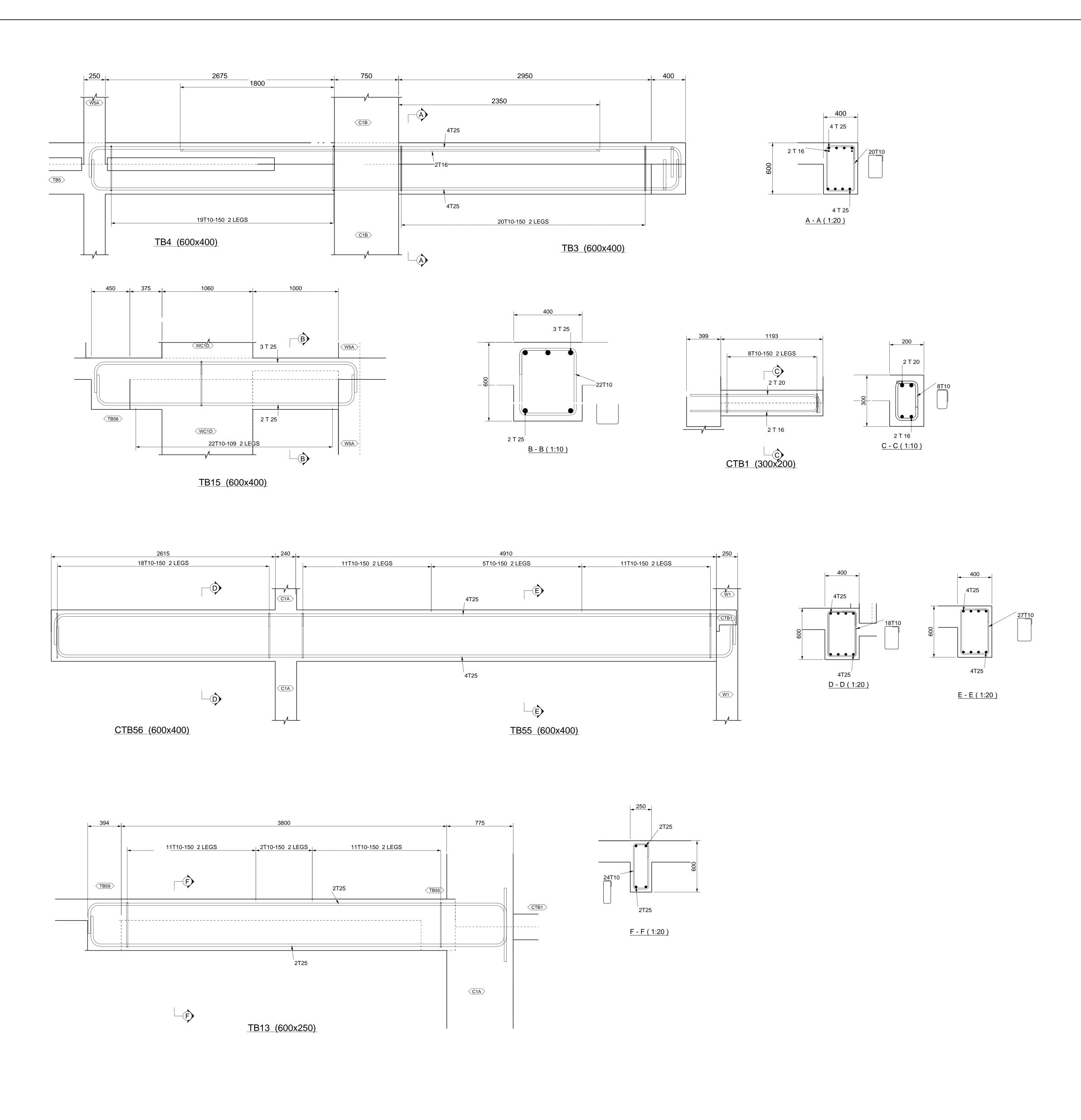
SCALE AS SHOWN@A1

BD REF

BIM REF

90mm (W) x 150mm (H) space for BD's approval stamp / certification of copies of approved plans (PNAP ADM-10 APP A)

Told Stripping



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SOURCE			
	90mm (\	N) x 40mm (H)	space
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BD's OFFICA	L USE		
	DRAWING TITE BEAM RC D  SCALE AS S DRAWING NO SOURCE	DRAWING TITLE BEAM RC DETAIL  SCALE AS SHOWN OF DRAWING NO. S004  SOURCE  90mm (V for CON)  90mm (V for AP/R)	PROJECT CIC SAMPLE PROJECT  DRAWING TITLE BEAM RC DETAIL  SCALE AS SHOWN@A1  DRAWING NO. S004  SOURCE  90mm (W) x 40mm (H) for COMPANY LOGO  90mm (W) x 60mm (H) for AP/RSE/RGE's signature/ and stamp c

REV. NO.

BD REF :

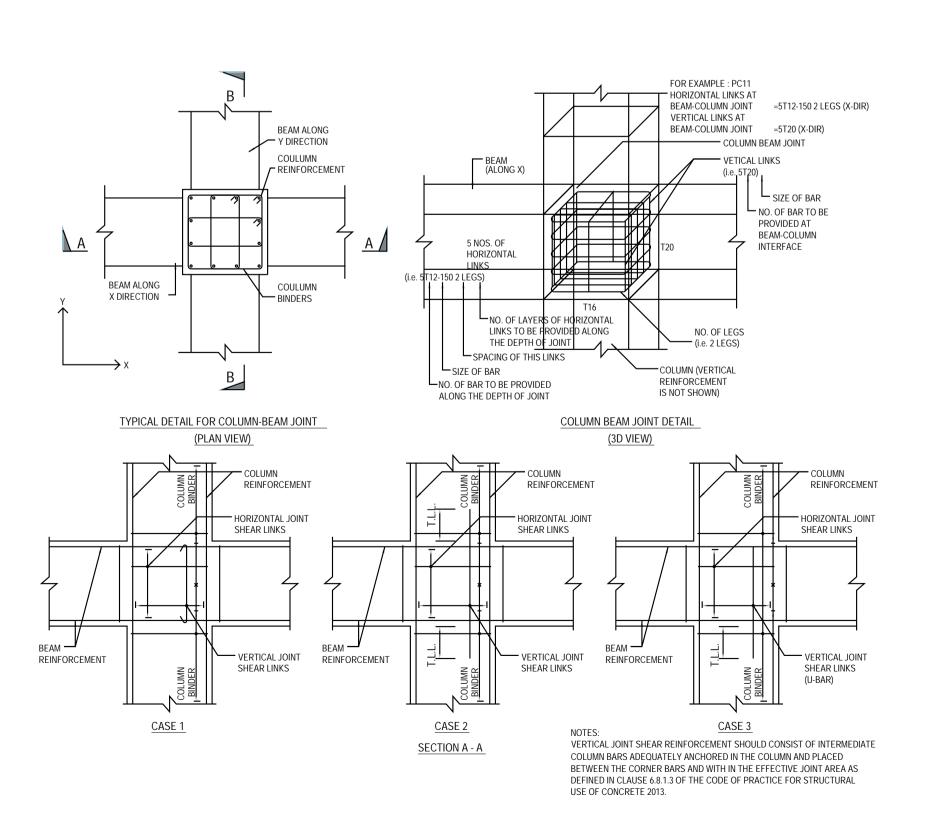
BIM REF

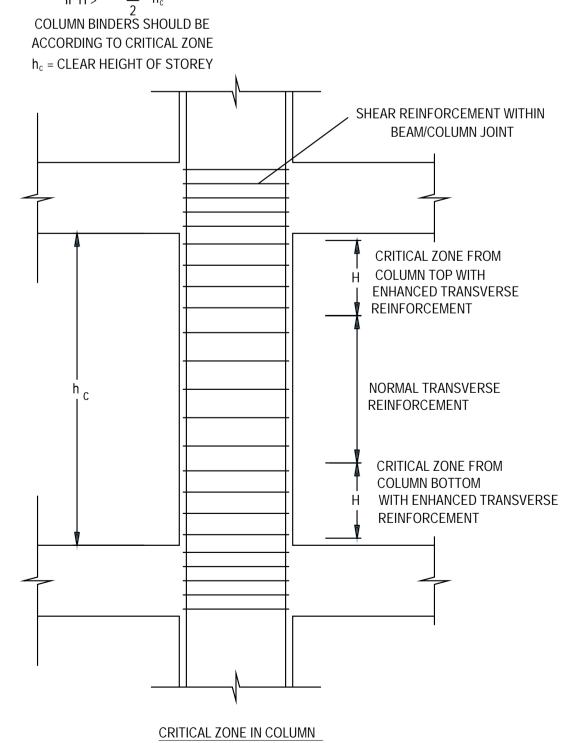
approved plans (PNAP ADM-10 APP A)

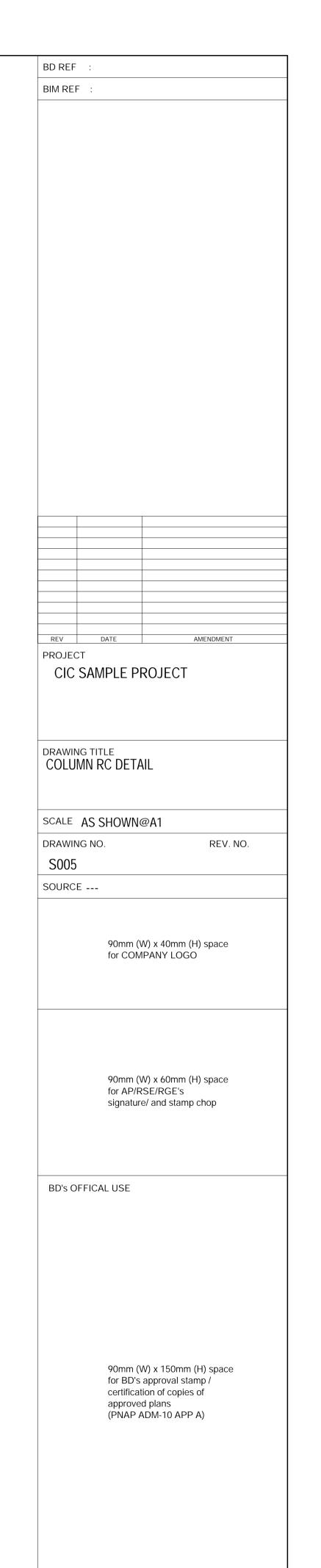
for BD's approval stamp / certification of copies of

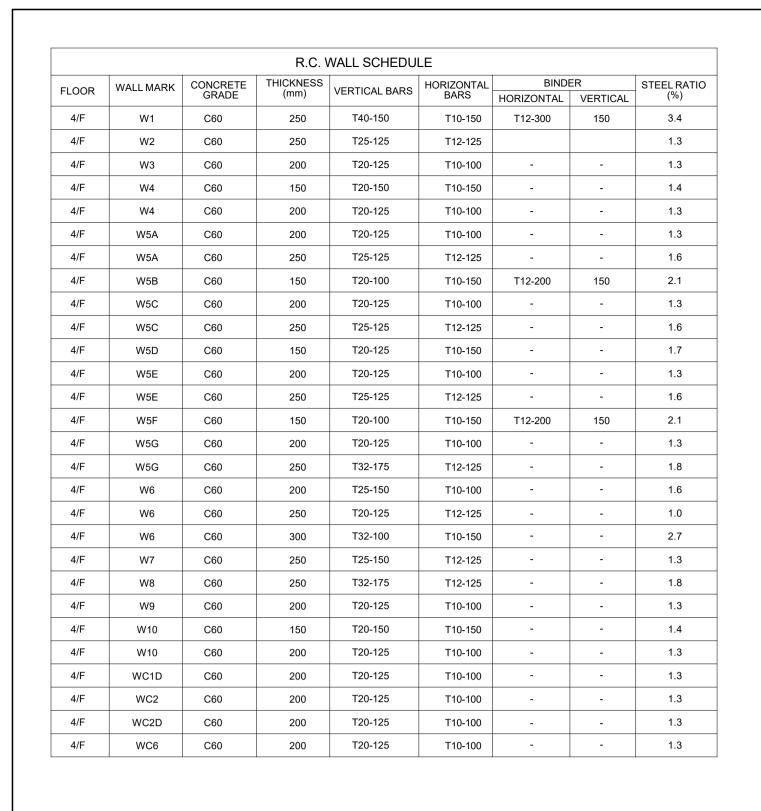
90mm (W) x 150mm (H) space

29/F TO 5/F	T25 T20 T25 T20 T25 T20 T25 T20 T25 T20 T25	750 5 — T25-T20—————T20-T25—— 197 87 T25 T20 T20 T25	T25 T20 T20 T25 T25 T20 T20 T25
COLUMN MARK	C1A	C1B	C1C
COLUMN SIZE	250X775	200X750	275X450
VERT. BARS	4T25+12T16 (2.96%)	4T25+12T20 (3.82%)	4T25+4T20 (2.60%)
BINDERS IN TYPICAL REGION	T10-175	T10-175	T10-175
BINDERS IN CRITICAL REGION	T10-125	T10-125	T10-125
CRITICAL REGION H (mm)	1000	1000	1000



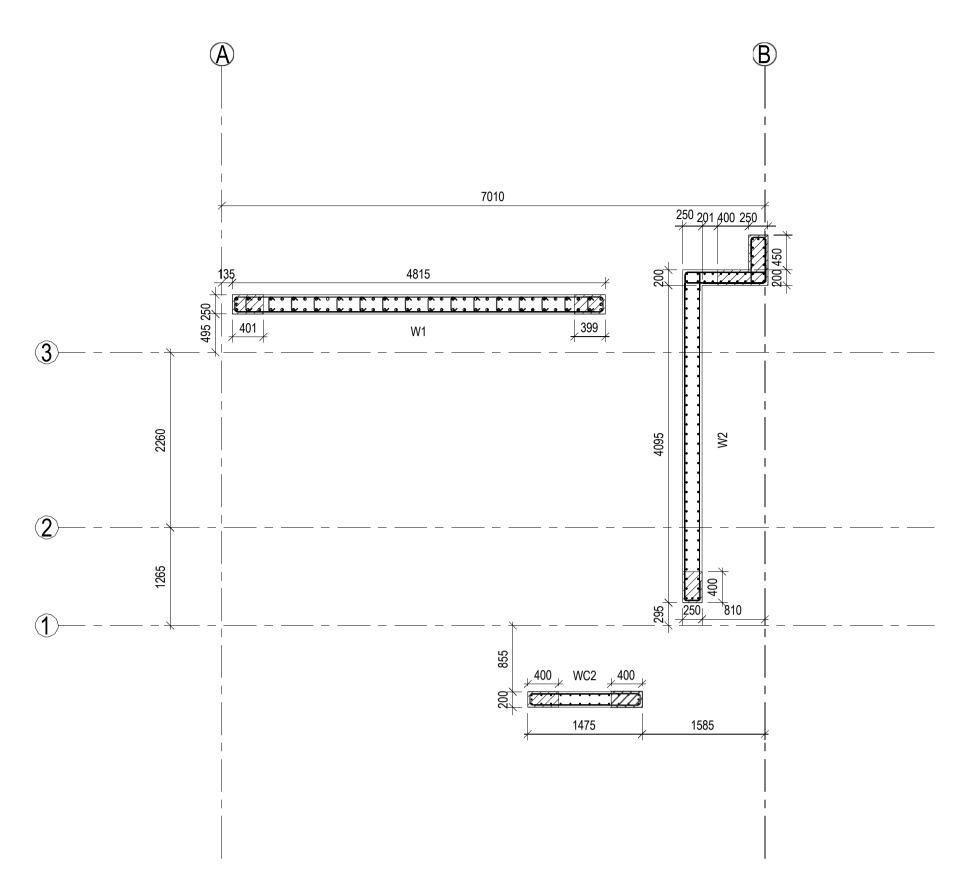


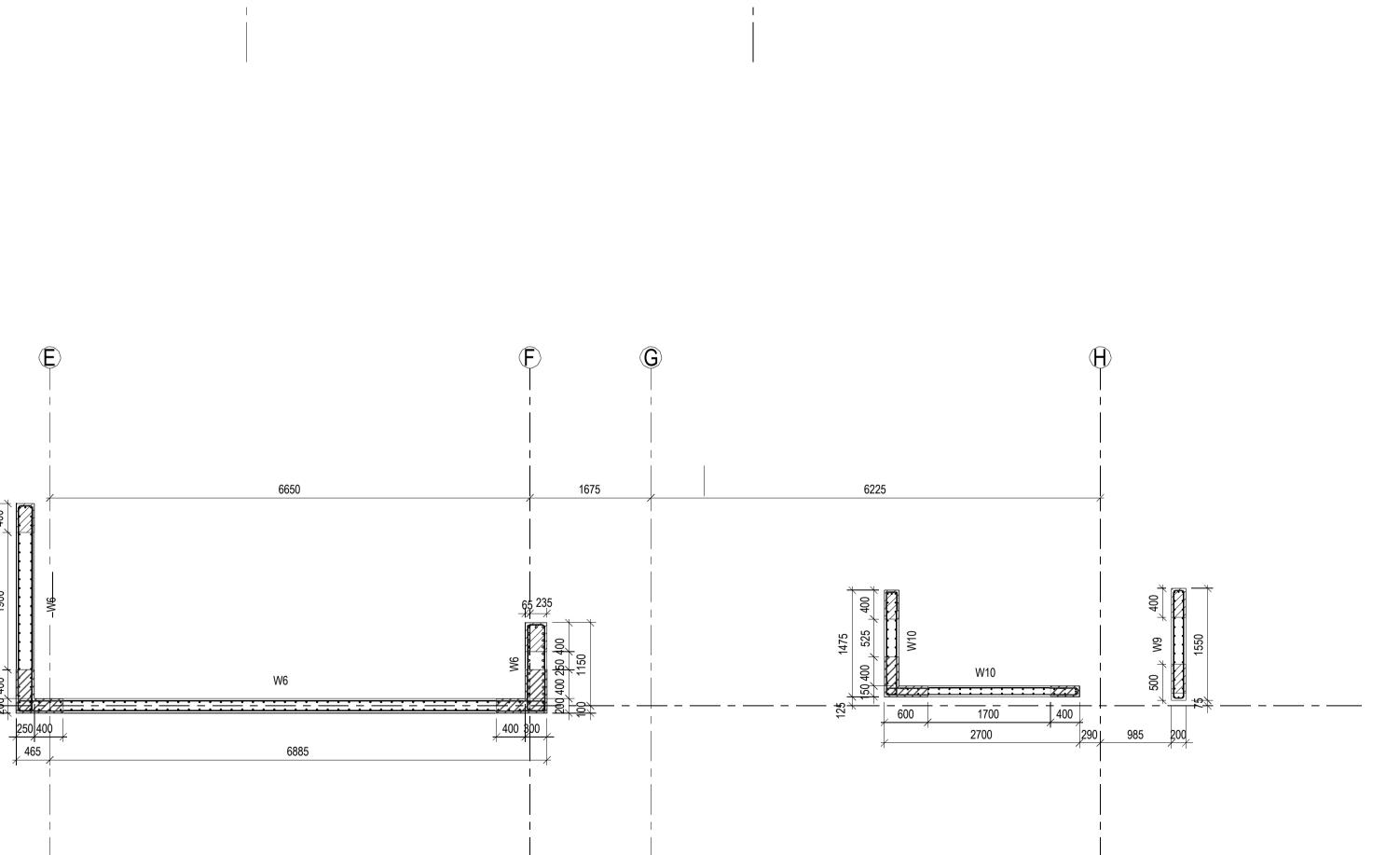




6225

2025





LEGEND:

CONFINED AREA

\_VERTICAL BAR

\_\_HORIZONTAL BAR

TYPICAL DETAIL OF WALL

(N.T.S.)

BINDER

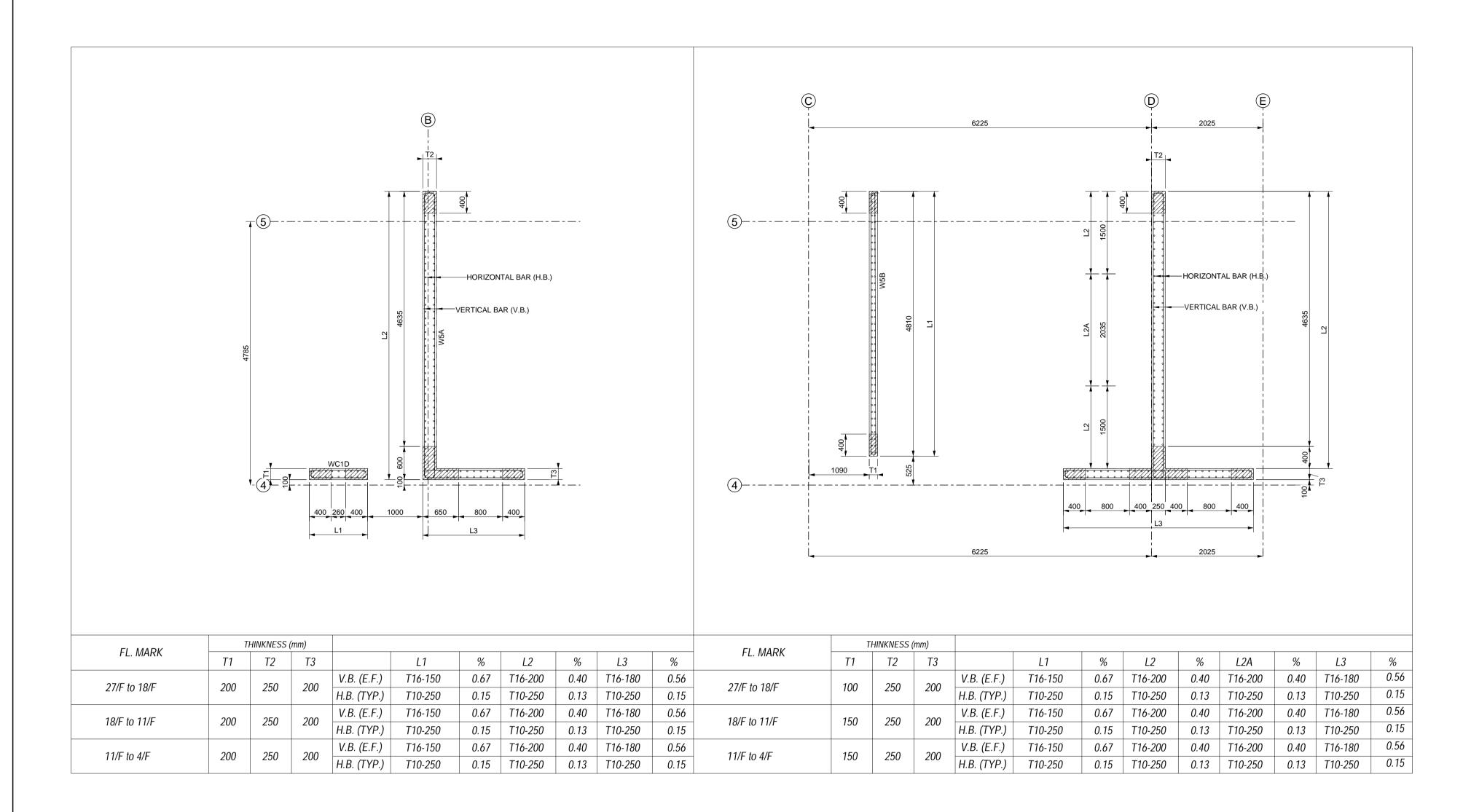
**BINDERS**:

HORIZONTAL SPACING

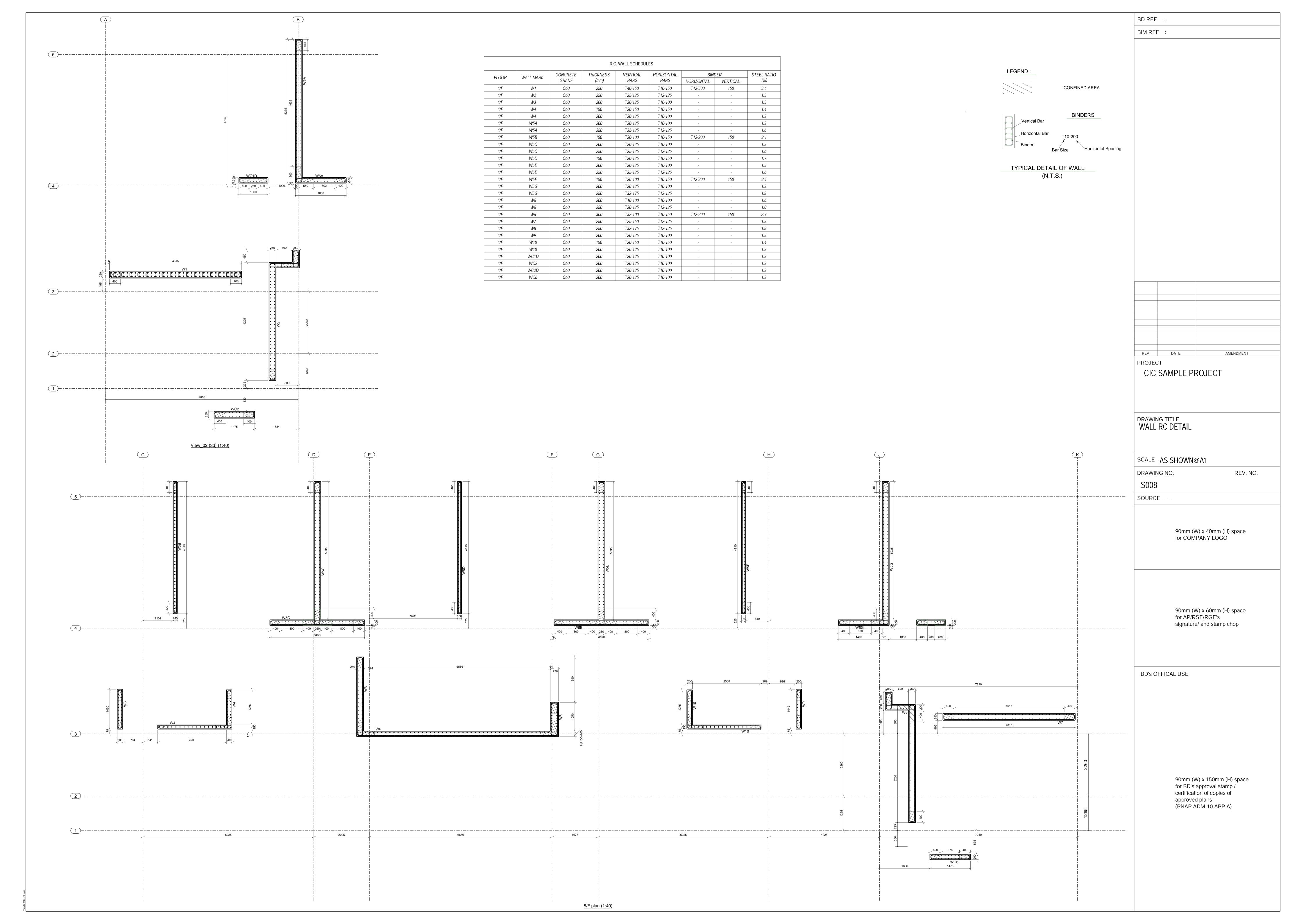
BAR DIAMETER VERTICAL SPACING

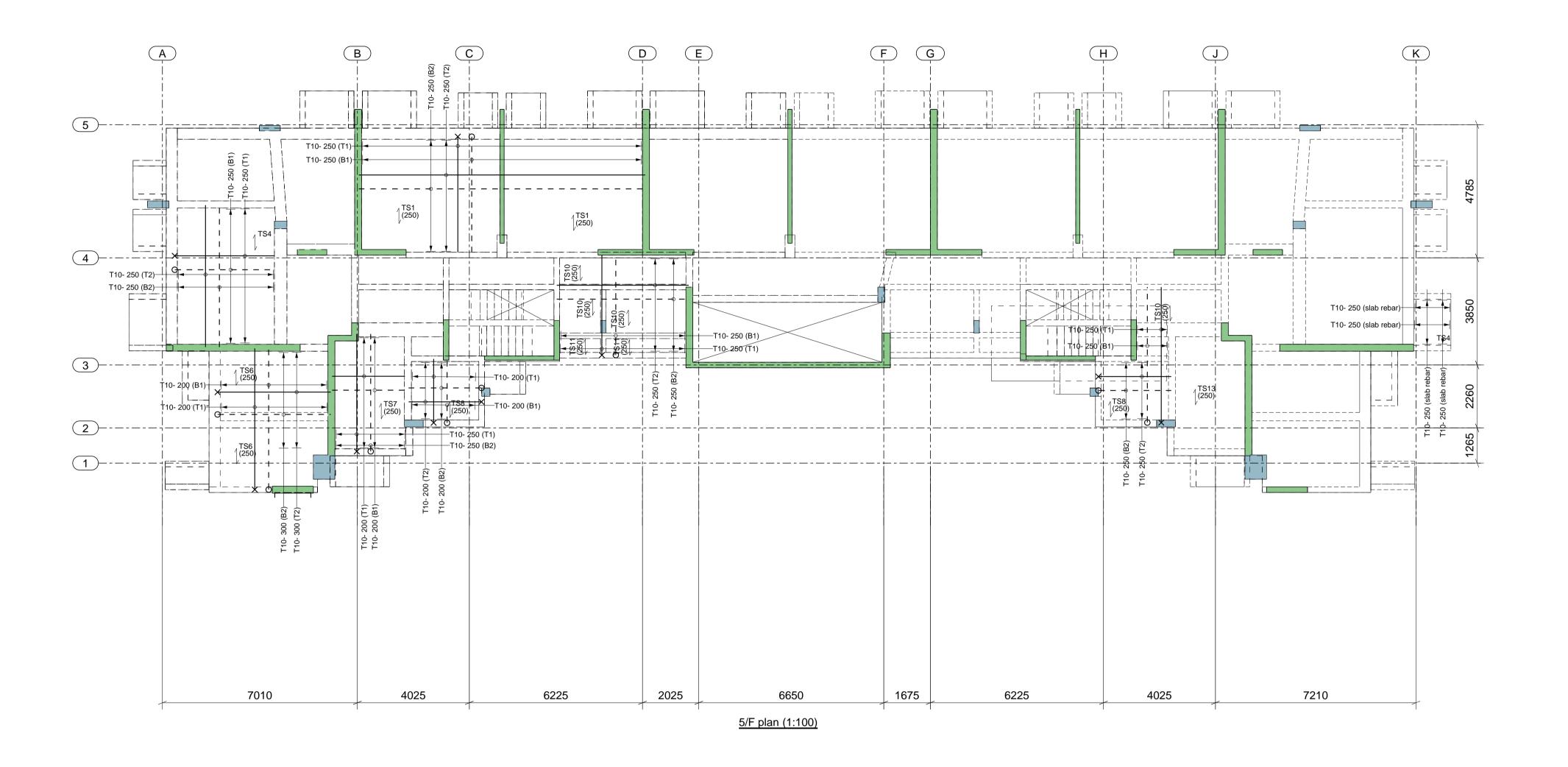
**BD REF BIM REF** PROJECT CIC SAMPLE PROJECT DRAWING TITLE WALL R.C. DETAIL SCALE AS SHOWN@A1 DRAWING NO. REV. NO. SOURCE ---90mm (W) x 40mm (H) space for COMPANY LOGO 90mm (W) x 60mm (H) space for AP/RSE/RGE's signature/ and stamp chop **BD's OFFICAL USE** 90mm (W) x 150mm (H) space for BD's approval stamp / certification of copies of approved plans (PNAP ADM-10 APP A)

a Structures

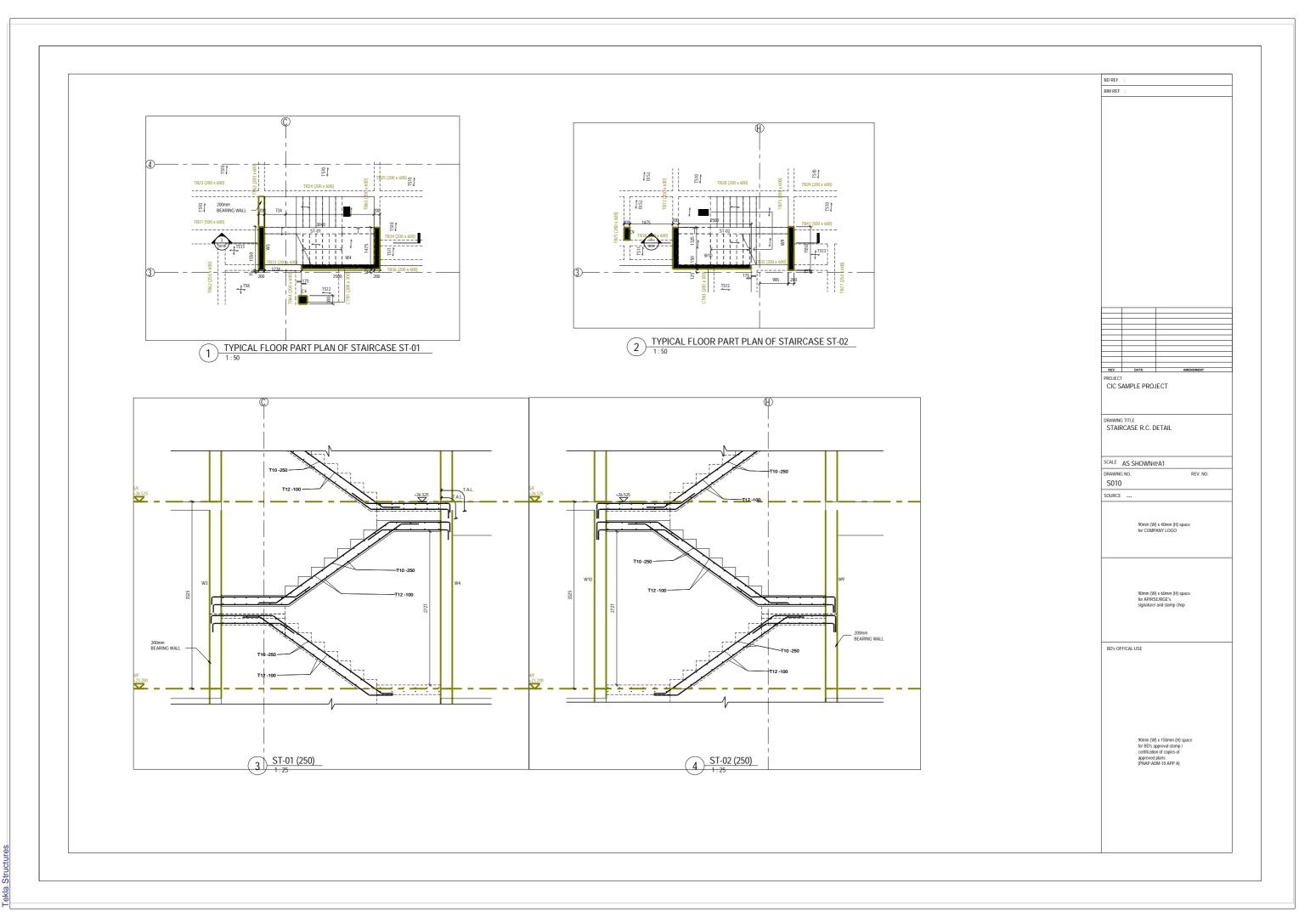


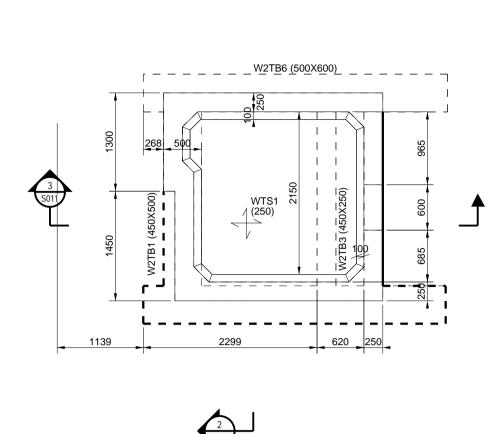
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SCALE	AS SHO\	NN@A1	
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DRAWII	7		REV. NO.
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drawii S007	E	ım (\\/) v 40~	
drawii S007	90m	nm (W) x 40m COMPANY L	nm (H) space
drawii S007	90m	ım (W) x 40m COMPANY L	nm (H) space
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drawii S007	90m	nm (W) x 40m COMPANY L	nm (H) space
drawii S007	90m for 0	nm (W) x 60m	nm (H) space OGO nm (H) space
drawii S007	90m for <i>G</i>	COMPANY L	nm (H) space OGO nm (H) space
drawii S007	90m for <i>G</i>	nm (W) x 60m AP/RSE/RGE	nm (H) space OGO nm (H) space
drawii S007	90m for <i>G</i>	nm (W) x 60m AP/RSE/RGE	nm (H) space OGO nm (H) space
S007	90m for <i>G</i>	nm (W) x 60m AP/RSE/RGE nature/ and st	nm (H) space OGO nm (H) space
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S007	90m for G	nm (W) x 60m AP/RSE/RGE nature/ and st	nm (H) space OGO nm (H) space
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S007	90m for G	nm (W) x 60m AP/RSE/RGE nature/ and st	nm (H) space OGO nm (H) space
S007	90m for G	nm (W) x 60m AP/RSE/RGE nature/ and st	nm (H) space OGO  nm (H) space E's Eamp chop
S007	90m for A sign  90m for E certiappi	nm (W) x 60m AP/RSE/RGE nature/ and st  E  The material of the control of the con	nm (H) space CGO  nm (H) space E's Eamp chop  nm (H) space Il stamp / Opies of
S007	90m for A sign  90m for E certiappi	nm (W) x 60m AP/RSE/RGE nature/ and st	nm (H) space CGO  nm (H) space E's Eamp chop  nm (H) space Il stamp / Opies of
S007	90m for A sign  90m for E certiappi	nm (W) x 60m AP/RSE/RGE nature/ and st  E  The material of the control of the con	nm (H) space CGO  nm (H) space E's Eamp chop  nm (H) space Il stamp / Opies of
SOURC	90m for A sign  90m for E certiappi	nm (W) x 60m AP/RSE/RGE nature/ and st  E  The material of the control of the con	nm (H) space CGO  nm (H) space E's Eamp chop  nm (H) space Il stamp / Opies of
S007	90m for A sign  90m for E certiappi	nm (W) x 60m AP/RSE/RGE nature/ and st  E  The material of the control of the con	nm (H) space CGO  nm (H) space E's Eamp chop  nm (H) space Il stamp / Opies of



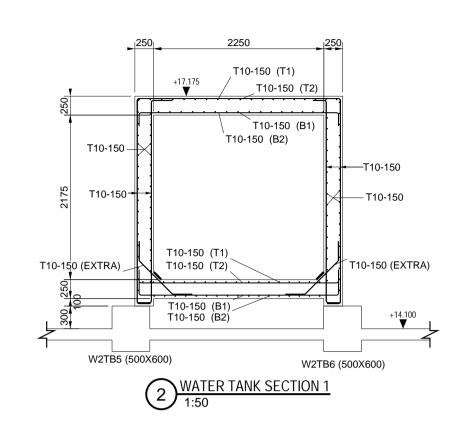


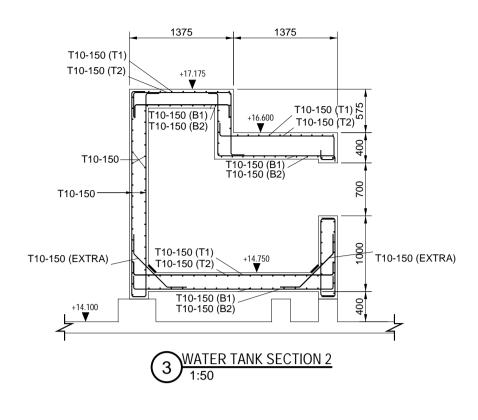
BD REF :		
BIM REF :		
REV	DATE	AMENDMENT
PROJECT		
DRAWING TIT		ROJECT
DRAWING TIT		
SLAB R.C.	DETAIL	
SLAB R.C.	DETAIL	
SLAB R.C.  SCALE AS S  DRAWING NO	DETAIL	@A1
SLAB R.C.  SCALE AS STANDERS OF SOUR	DETAIL	@A1
SLAB R.C.  SCALE AS STANDERS OF SOUR	DETAIL	@A1
SLAB R.C.  SCALE AS STANDERS OF SOUR	DETAIL	@A1
SLAB R.C.  SCALE AS STANDERS OF SOUR	DETAIL SHOWN ).	
SLAB R.C.  SCALE AS STANDERS OF SOUR	DETAIL SHOWN ).	@ <b>A1</b> REV. NO.
SLAB R.C.  SCALE AS S  DRAWING NO	DETAIL SHOWN ).	
SLAB R.C.  SCALE AS STANDERS OF SOUR	DETAIL SHOWN ).	
SLAB R.C.  SCALE AS STANDERS OF SOUR	DETAIL SHOWN ).	
SLAB R.C.  SCALE AS STANDERS OF SOUR	DETAIL SHOWN  90mm ( for CON	W) x 40mm (H) space
SLAB R.C.  SCALE AS STANDERS OF SOUR	DETAIL SHOWN  90mm ( for CON	
SLAB R.C.  SCALE AS STANDERS OF SOUR	90mm (for AP/F	W) x 40mm (H) space MPANY LOGO  W) x 60mm (H) space
SLAB R.C.  SCALE AS STANDERS OF SOUR	90mm (for AP/F	W) x 40mm (H) space MPANY LOGO  W) x 60mm (H) space
SLAB R.C.  SCALE AS STANDERS OF SOUR	90mm (for AP/F	W) x 40mm (H) space MPANY LOGO  W) x 60mm (H) space
SLAB R.C.  SCALE AS S  DRAWING NO  S009  SOURCE	90mm (for COM	W) x 40mm (H) space MPANY LOGO  W) x 60mm (H) space
SLAB R.C.  SCALE AS STANDERS OF SOUR	90mm (for COM	W) x 40mm (H) space MPANY LOGO  W) x 60mm (H) space
SLAB R.C.  SCALE AS S  DRAWING NO  S009  SOURCE	90mm (for COM	W) x 40mm (H) space MPANY LOGO  W) x 60mm (H) space
SLAB R.C.  SCALE AS S  DRAWING NO  S009  SOURCE	90mm (for COM	W) x 40mm (H) space MPANY LOGO  W) x 60mm (H) space
SLAB R.C.  SCALE AS S  DRAWING NO  S009  SOURCE	90mm (for COM	W) x 40mm (H) space MPANY LOGO  W) x 60mm (H) space
SLAB R.C.  SCALE AS S  DRAWING NO  S009  SOURCE	90mm (for COM	W) x 40mm (H) space MPANY LOGO  W) x 60mm (H) space
SLAB R.C.  SCALE AS S  DRAWING NO  S009  SOURCE	90mm (for COM	W) x 40mm (H) space MPANY LOGO  W) x 60mm (H) space
SLAB R.C.  SCALE AS S  DRAWING NO  S009  SOURCE	90mm (for COM	W) x 40mm (H) space MPANY LOGO  W) x 60mm (H) space
SLAB R.C.  SCALE AS S  DRAWING NO  S009  SOURCE	90mm (for COM	W) x 40mm (H) space MPANY LOGO  W) x 60mm (H) space
SLAB R.C.  SCALE AS S  DRAWING NO  S009  SOURCE	90mm (for COM	W) x 40mm (H) space //PANY LOGO  W) x 60mm (H) space RSE/RGE's re/ and stamp chop
SLAB R.C.  SCALE AS S  DRAWING NO  S009  SOURCE	90mm (for AP/F signatur	W) x 40mm (H) space //PANY LOGO  W) x 60mm (H) space RSE/RGE's re/ and stamp chop
SLAB R.C.  SCALE AS S  DRAWING NO  S009  SOURCE	90mm (for AP/F signatur  90mm (for BD's certifica	W) x 40mm (H) space //PANY LOGO  W) x 150mm (H) space re/ and stamp chop  W) x 150mm (H) space sapproval stamp / tipo of copies of
SLAB R.C.  SCALE AS S  DRAWING NO  S009  SOURCE	90mm (for AP/F signatur  90mm (for AP/F signatur	W) x 40mm (H) space //PANY LOGO  W) x 150mm (H) space re/ and stamp chop  W) x 150mm (H) space sapproval stamp / tipo of copies of



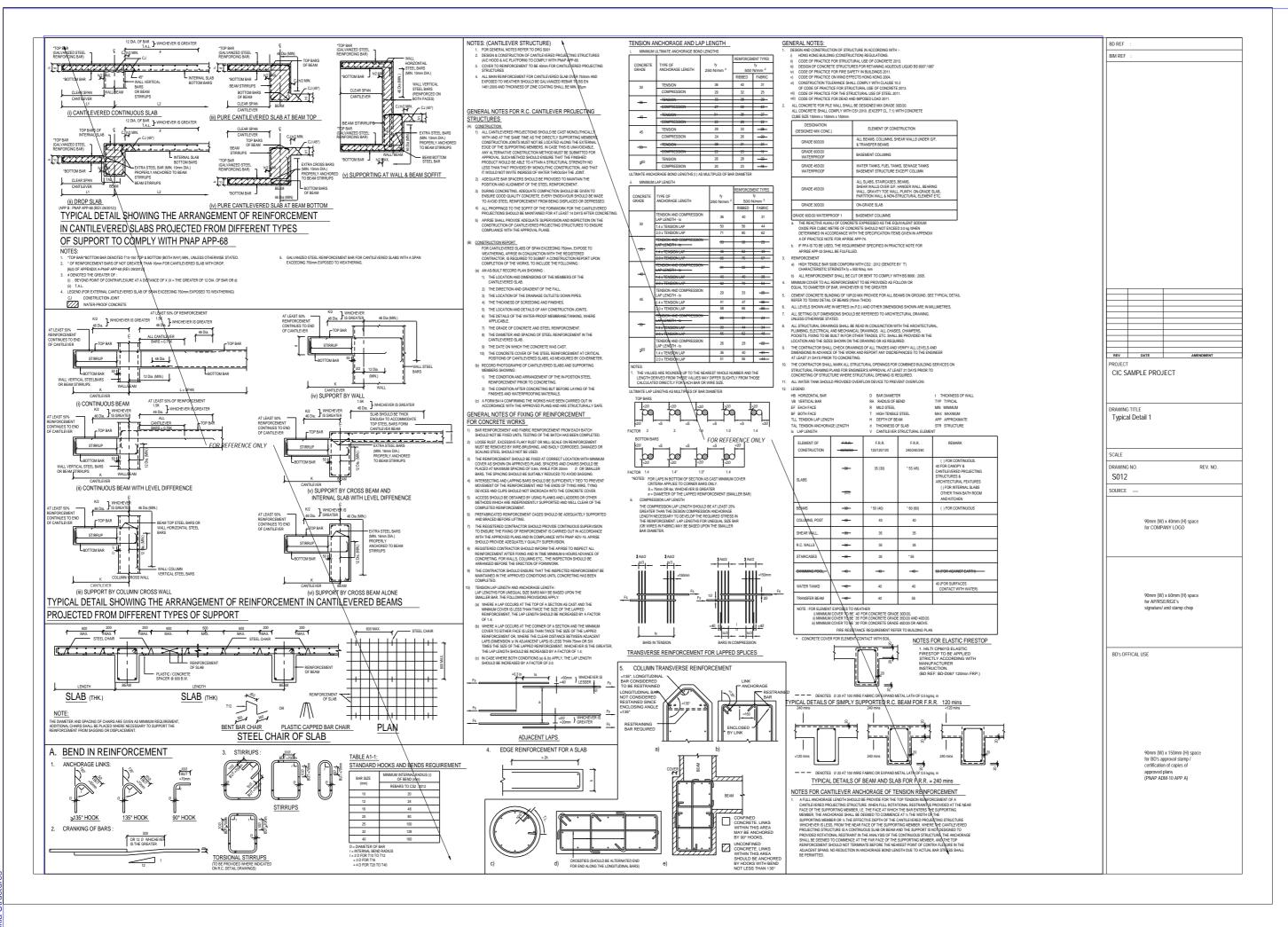


6.6m3 FLUSHING WATER TANK AT 2/ F 1:50

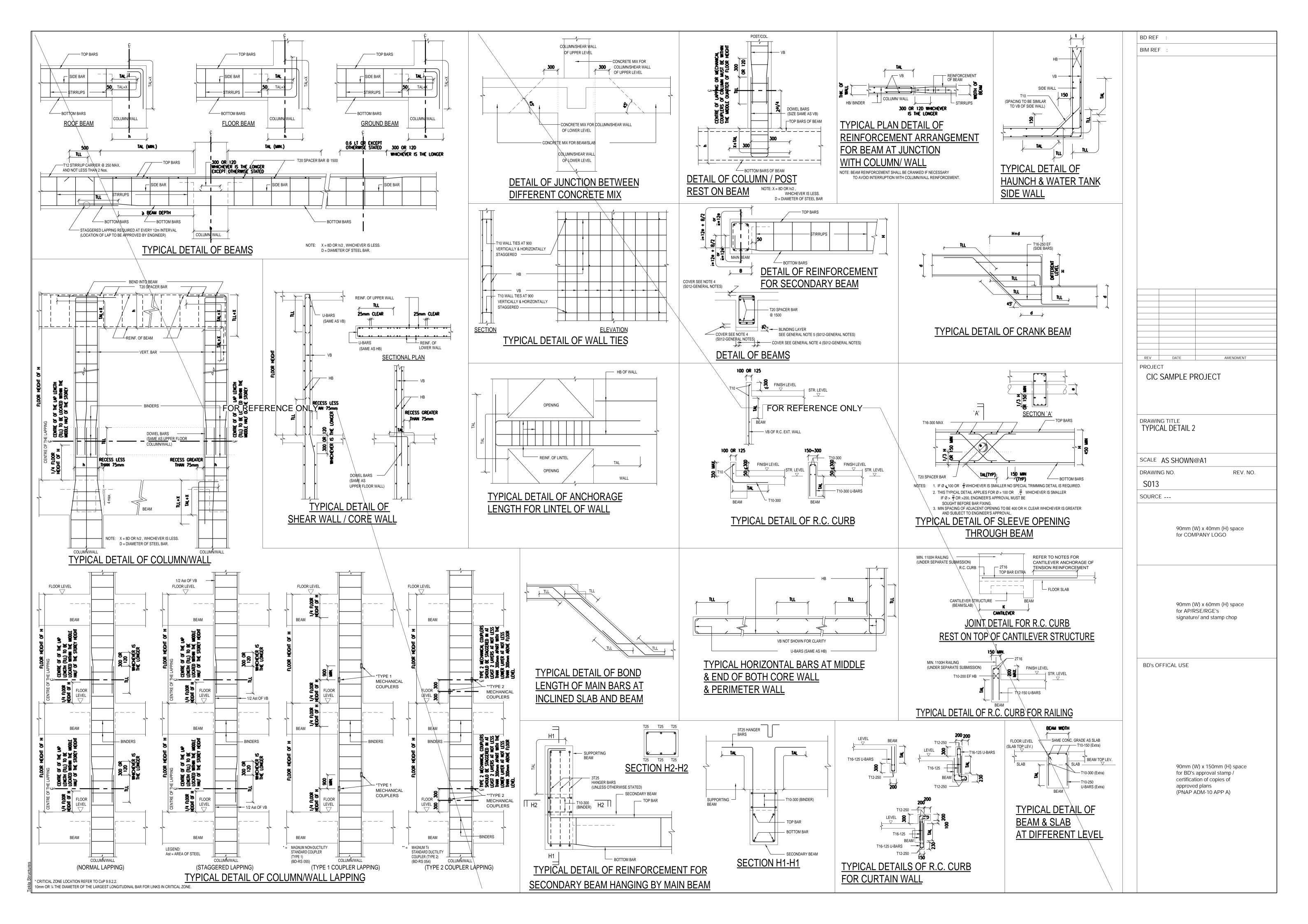


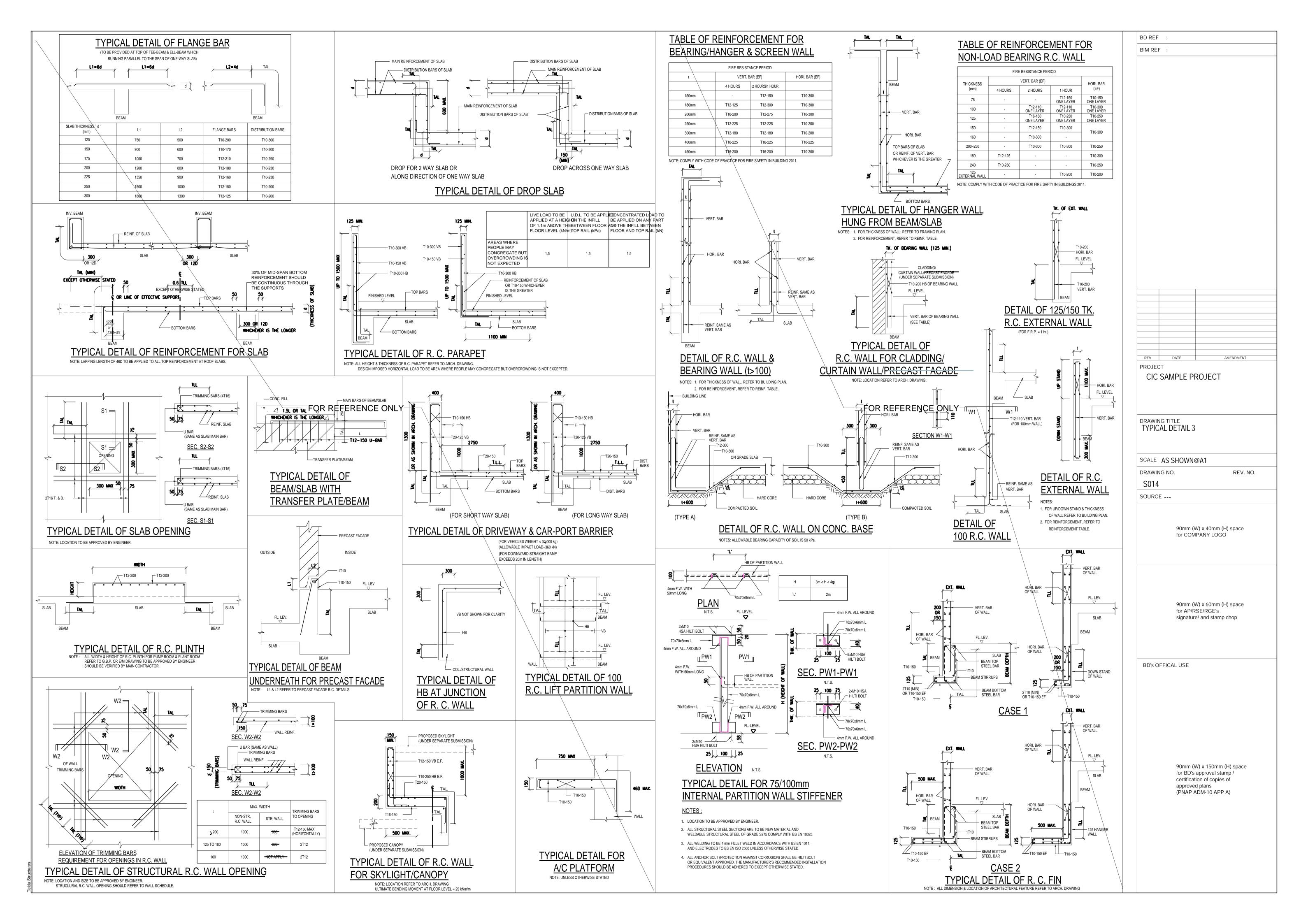


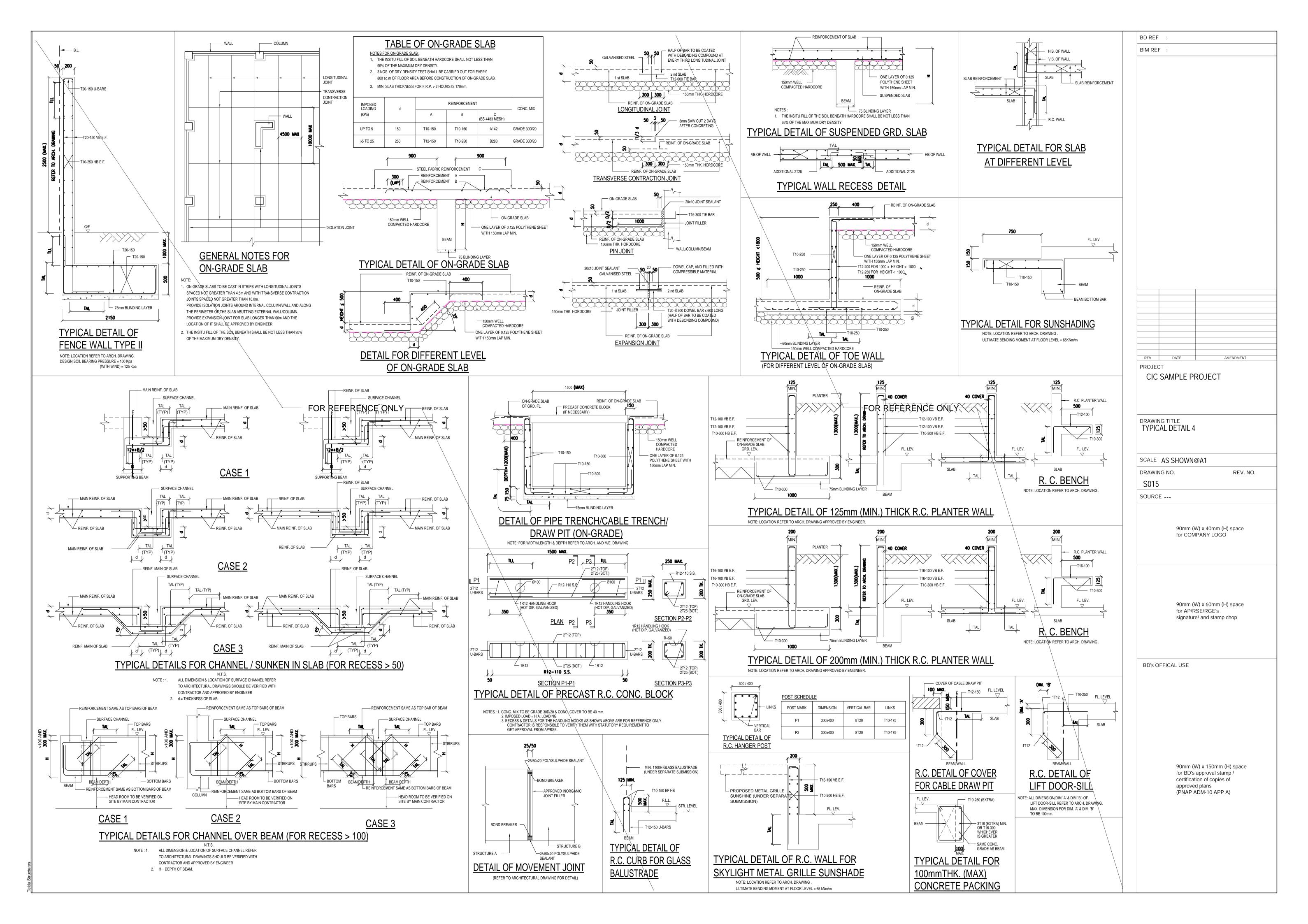
PROJECT	DATE	AMENDMENT
		ROJECT
DRAWING TIT WATER TA	LE	
WATER TA	le NK DET	AILS
WATER TA	nk det Shown@	AILS ®A1
SCALE AS S	nk det Shown@	AILS
SCALE ASS	nk det Shown@	AILS ®A1
SCALE AS SO DRAWING NO S011	nk det Shown@	AILS ®A1
SCALE AS SO DRAWING NO S011	SHOWN (	AILS ®A1
SCALE AS SO DRAWING NO S011	SHOWN (	AILS  PA1  REV. NO.  V) x 40mm (H) space
SCALE AS SO DRAWING NO S011	90mm (V for AP/R	AILS  PA1  REV. NO.  V) x 40mm (H) space
SCALE AS SO DRAWING NO S011	90mm (V for AP/R signature	AILS  PA1  REV. NO.  V) x 40mm (H) space PANY LOGO  V) x 60mm (H) space SE/RGE's
SCALE AS SECULATION OF SOURCE	90mm (V for AP/R signature	AILS  PA1  REV. NO.  V) x 40mm (H) space PANY LOGO  V) x 60mm (H) space SE/RGE's

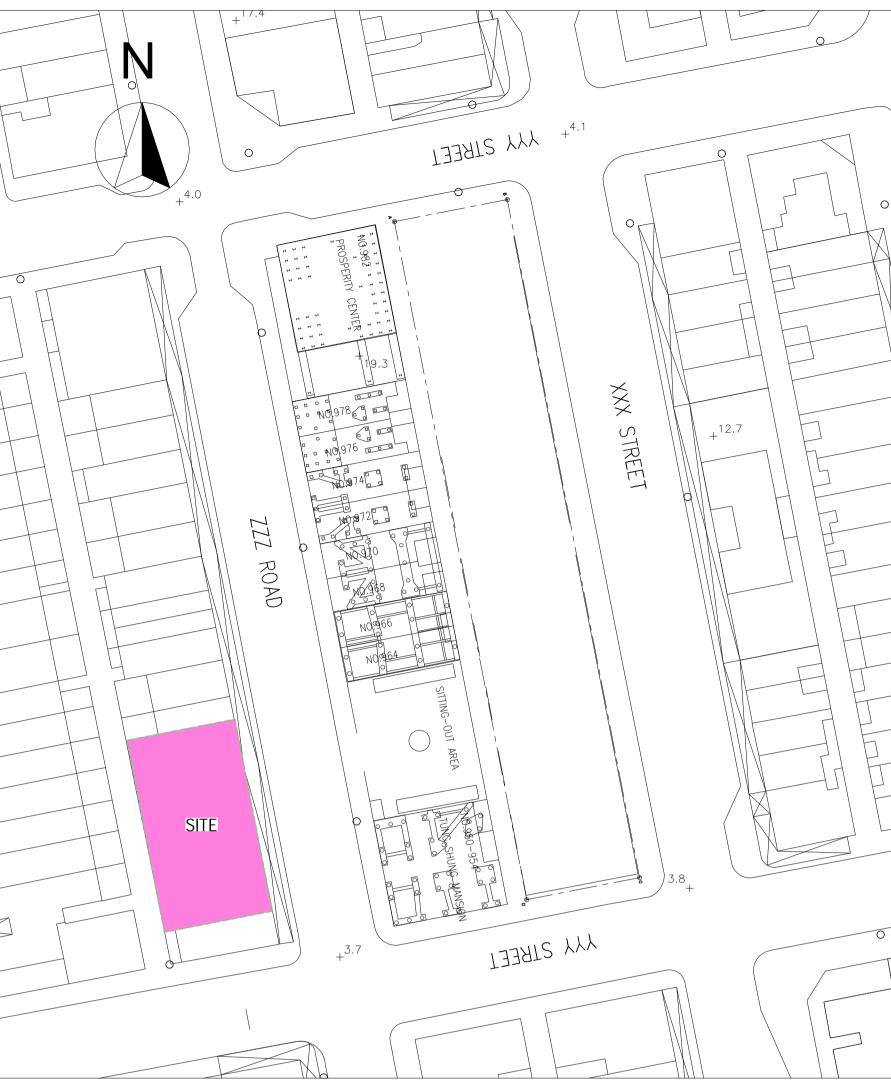


kla Structures









GENERAL NOTES FOR STRUCTURAL STEEL WORKS:

UNLESS NOTED OTHERWISE, ALL STRUCTURAL STEEL WORKS SHALL BE GRADE S355 JO 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.

2. 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:

	THICKNESS LESS THAN OR EQUAL TO (mm)	DESIGN STRENGT N/mm 2
S355 \	16	355

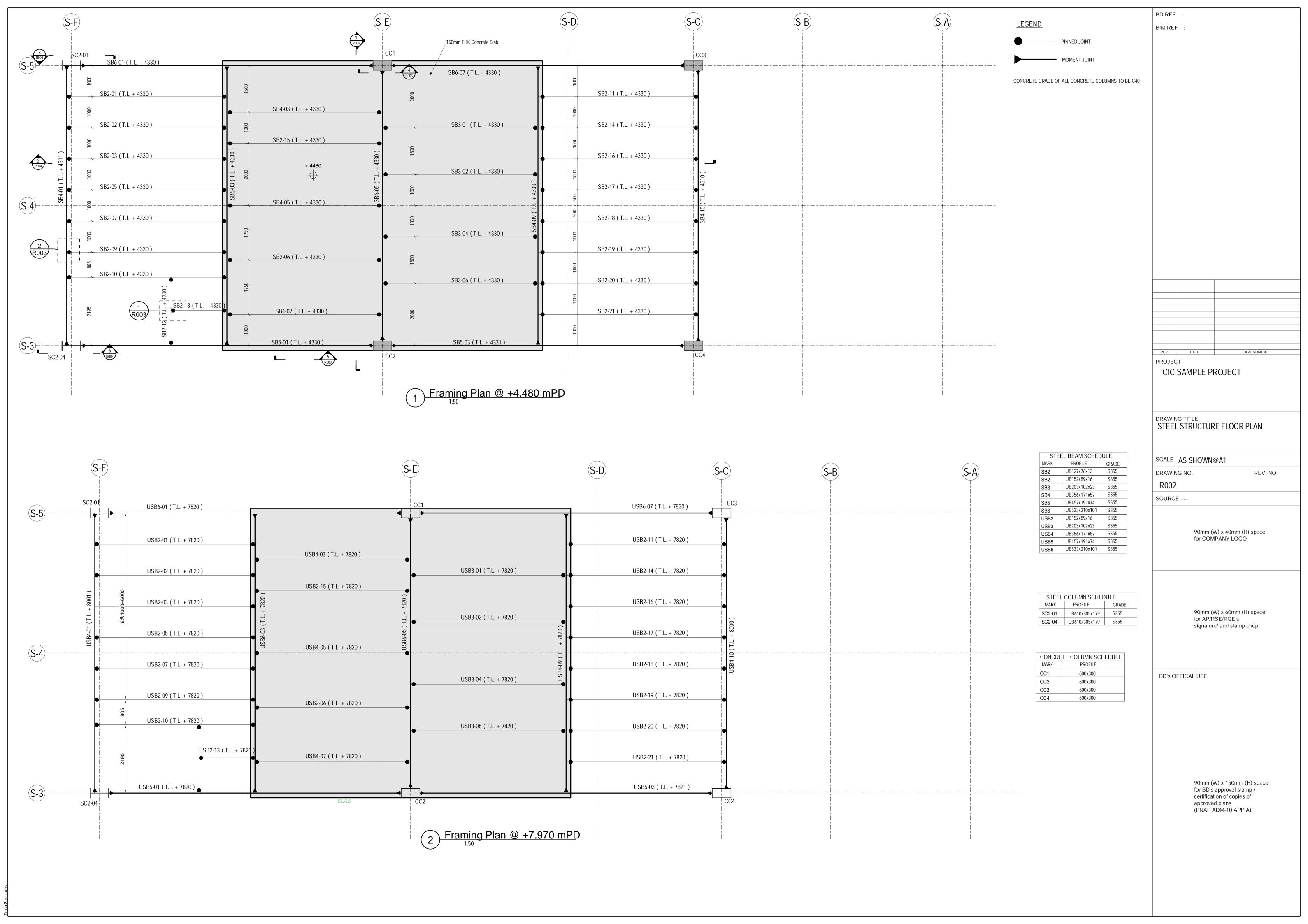
\* THE STRUCTURAL STEEL ARE CLASSIFIED AS CLASS 1 IN ACCORDANCE WITH CODE OF PRACTICE FOR THE STRUCTURAL USE OF STEEL 2011.

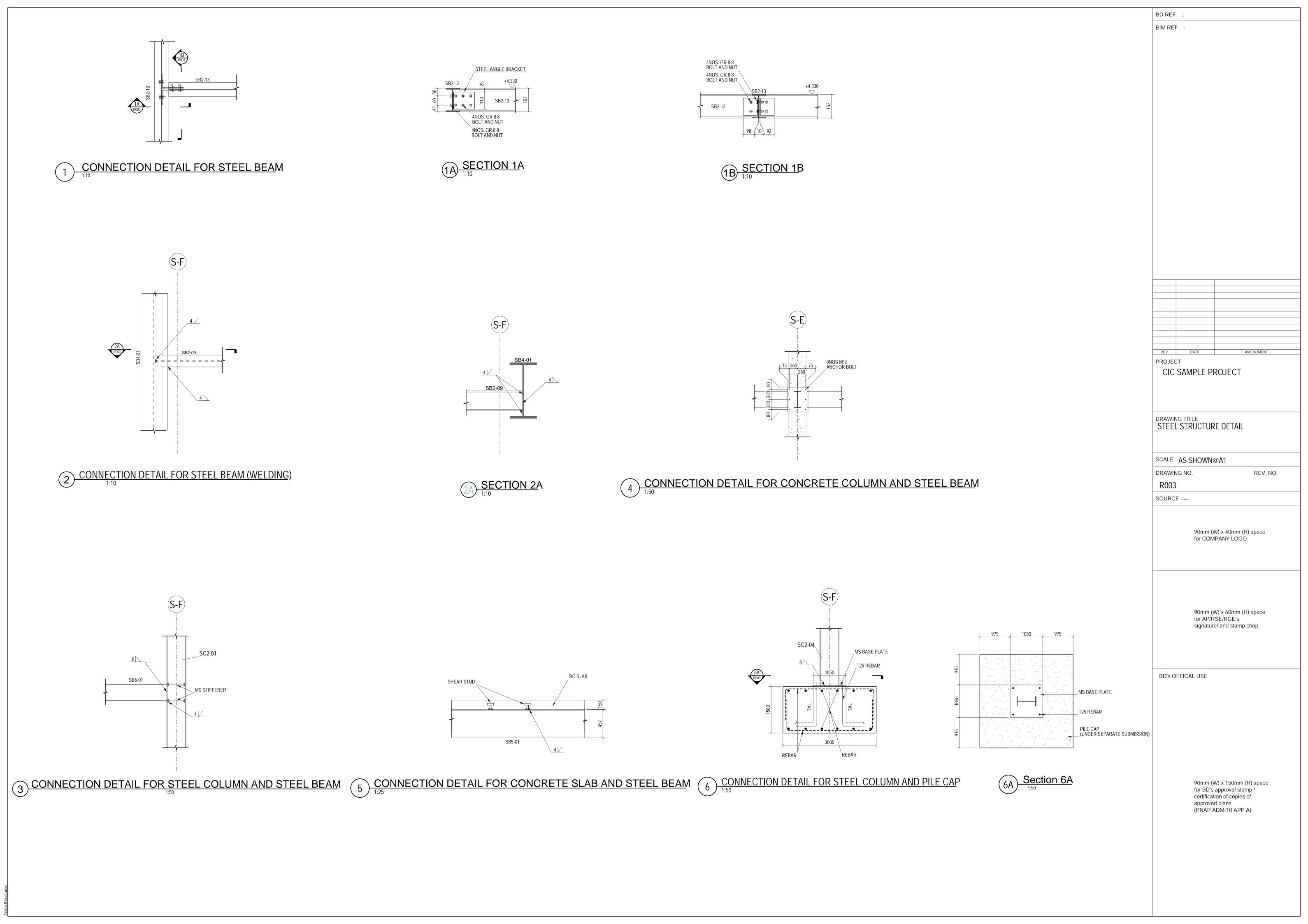
- 3. THE STEELWORK CONTRACTOR IS RESPONSIBLE FOR ENSURING THE STEEL HAS ADEQUATE THROUGH THICKNESS PROPERTIES TO\SATISFY THE REQUIREMENTS OF HIS WELDING PROCEDURES AND WELDING SEQUENCE AND THAT THE MATERIAL ATOR ADJACENT TO WELDED LOCATIONS IS FREE OF LAMINATIONS, CENTRELINE SEGREGATION, OR OTHER CRACK 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.
- 5. 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.
- 7. 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 SAT\SFACTORY 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 IN 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:-
- -FULL PENETRATION BUTT FILLET WELD REFERENCE ONLY -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.

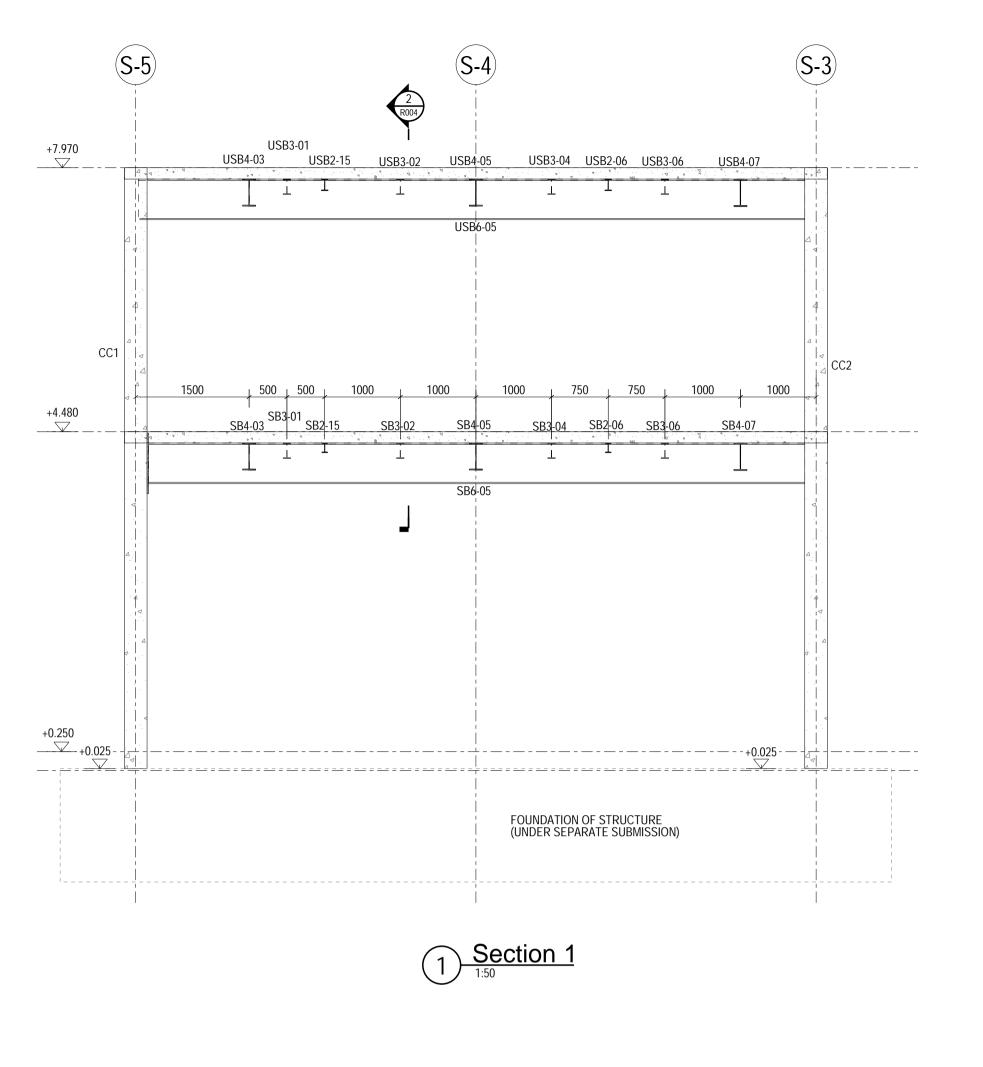
GENERAL NOTES  SCALE AS SHOWN@A1  DRAWING NO. REV. NO  R001				
PROJECT CIC SAMPLE PROJECT  DRAWING TITLE STEEL STRUCTURE BLOCK PLAN AND GENERAL NOTES  SCALE AS SHOWN@A1  DRAWING NO. REV. NO RO01  SOURCE  90mm (W) x 40mm (H) space for COMPANY LOGO  90mm (W) x 60mm (H) space for AP/RSE/RGE's signature/ and stamp chop				
PROJECT CIC SAMPLE PROJECT  DRAWING TITLE STEEL STRUCTURE BLOCK PLAN AND GENERAL NOTES  SCALE AS SHOWN@A1  DRAWING NO. REV. NO RO01  SOURCE  90mm (W) x 40mm (H) space for COMPANY LOGO  90mm (W) x 60mm (H) space for AP/RSE/RGE's signature/ and stamp chop				
PROJECT CIC SAMPLE PROJECT  DRAWING TITLE STEEL STRUCTURE BLOCK PLAN AND GENERAL NOTES  SCALE AS SHOWN@A1  DRAWING NO. REV. NO RO01  SOURCE  90mm (W) x 40mm (H) space for COMPANY LOGO  90mm (W) x 60mm (H) space for AP/RSE/RGE's signature/ and stamp chop				
PROJECT CIC SAMPLE PROJECT  DRAWING TITLE STEEL STRUCTURE BLOCK PLAN AND GENERAL NOTES  SCALE AS SHOWN@A1  DRAWING NO. REV. NO RO01  SOURCE  90mm (W) x 40mm (H) space for COMPANY LOGO  90mm (W) x 60mm (H) space for AP/RSE/RGE's signature/ and stamp chop				
PROJECT CIC SAMPLE PROJECT  DRAWING TITLE STEEL STRUCTURE BLOCK PLAN AND GENERAL NOTES  SCALE AS SHOWN@A1  DRAWING NO. REV. NO RO01  SOURCE  90mm (W) x 40mm (H) space for COMPANY LOGO  90mm (W) x 60mm (H) space for AP/RSE/RGE's signature/ and stamp chop				
PROJECT CIC SAMPLE PROJECT  DRAWING TITLE STEEL STRUCTURE BLOCK PLAN AND GENERAL NOTES  SCALE AS SHOWN@A1  DRAWING NO. REV. NO RO01  SOURCE  90mm (W) x 40mm (H) space for COMPANY LOGO  90mm (W) x 60mm (H) space for AP/RSE/RGE's signature/ and stamp chop				
PROJECT CIC SAMPLE PROJECT  DRAWING TITLE STEEL STRUCTURE BLOCK PLAN AND GENERAL NOTES  SCALE AS SHOWN@A1  DRAWING NO. REV. NO RO01  SOURCE  90mm (W) x 40mm (H) space for COMPANY LOGO  90mm (W) x 60mm (H) space for AP/RSE/RGE's signature/ and stamp chop				
PROJECT CIC SAMPLE PROJECT  DRAWING TITLE STEEL STRUCTURE BLOCK PLAN AND GENERAL NOTES  SCALE AS SHOWN@A1  DRAWING NO. REV. NO RO01  SOURCE  90mm (W) x 40mm (H) space for COMPANY LOGO  90mm (W) x 60mm (H) space for AP/RSE/RGE's signature/ and stamp chop				
PROJECT CIC SAMPLE PROJECT  DRAWING TITLE STEEL STRUCTURE BLOCK PLAN AND GENERAL NOTES  SCALE AS SHOWN@A1  DRAWING NO. REV. NO RO01  SOURCE  90mm (W) x 40mm (H) space for COMPANY LOGO  90mm (W) x 60mm (H) space for AP/RSE/RGE's signature/ and stamp chop				
PROJECT CIC SAMPLE PROJECT  DRAWING TITLE STEEL STRUCTURE BLOCK PLAN AND GENERAL NOTES  SCALE AS SHOWN@A1  DRAWING NO. REV. NO RO01  SOURCE  90mm (W) x 40mm (H) space for COMPANY LOGO  90mm (W) x 60mm (H) space for AP/RSE/RGE's signature/ and stamp chop				
PROJECT CIC SAMPLE PROJECT  DRAWING TITLE STEEL STRUCTURE BLOCK PLAN AND GENERAL NOTES  SCALE AS SHOWN@A1  DRAWING NO. REV. NO RO01  SOURCE  90mm (W) x 40mm (H) space for COMPANY LOGO  90mm (W) x 60mm (H) space for AP/RSE/RGE's signature/ and stamp chop				
PROJECT CIC SAMPLE PROJECT  DRAWING TITLE STEEL STRUCTURE BLOCK PLAN AND GENERAL NOTES  SCALE AS SHOWN@A1  DRAWING NO. REV. NO RO01  SOURCE  90mm (W) x 40mm (H) space for COMPANY LOGO  90mm (W) x 60mm (H) space for AP/RSE/RGE's signature/ and stamp chop				
PROJECT CIC SAMPLE PROJECT  DRAWING TITLE STEEL STRUCTURE BLOCK PLAN AND GENERAL NOTES  SCALE AS SHOWN@A1  DRAWING NO. REV. NO RO01  SOURCE  90mm (W) x 40mm (H) space for COMPANY LOGO  90mm (W) x 60mm (H) space for AP/RSE/RGE's signature/ and stamp chop				
PROJECT CIC SAMPLE PROJECT  DRAWING TITLE STEEL STRUCTURE BLOCK PLAN AND GENERAL NOTES  SCALE AS SHOWN@A1  DRAWING NO. REV. NO RO01  SOURCE  90mm (W) x 40mm (H) space for COMPANY LOGO  90mm (W) x 60mm (H) space for AP/RSE/RGE's signature/ and stamp chop				
PROJECT CIC SAMPLE PROJECT  DRAWING TITLE STEEL STRUCTURE BLOCK PLAN AND GENERAL NOTES  SCALE AS SHOWN@A1  DRAWING NO. REV. NO RO01  SOURCE  90mm (W) x 40mm (H) space for COMPANY LOGO  90mm (W) x 60mm (H) space for AP/RSE/RGE's signature/ and stamp chop				
PROJECT CIC SAMPLE PROJECT  DRAWING TITLE STEEL STRUCTURE BLOCK PLAN AND GENERAL NOTES  SCALE AS SHOWN@A1  DRAWING NO. REV. NO RO01  SOURCE  90mm (W) x 40mm (H) space for COMPANY LOGO  90mm (W) x 60mm (H) space for AP/RSE/RGE's signature/ and stamp chop				
PROJECT CIC SAMPLE PROJECT  DRAWING TITLE STEEL STRUCTURE BLOCK PLAN AND GENERAL NOTES  SCALE AS SHOWN@A1  DRAWING NO. REV. NO RO01  SOURCE  90mm (W) x 40mm (H) space for COMPANY LOGO  90mm (W) x 60mm (H) space for AP/RSE/RGE's signature/ and stamp chop				
PROJECT CIC SAMPLE PROJECT  DRAWING TITLE STEEL STRUCTURE BLOCK PLAN AND GENERAL NOTES  SCALE AS SHOWN@A1  DRAWING NO. REV. NO RO01  SOURCE  90mm (W) x 40mm (H) space for COMPANY LOGO  90mm (W) x 60mm (H) space for AP/RSE/RGE's signature/ and stamp chop				
PROJECT CIC SAMPLE PROJECT  DRAWING TITLE STEEL STRUCTURE BLOCK PLAN AND GENERAL NOTES  SCALE AS SHOWN@A1  DRAWING NO. REV. NO RO01  SOURCE  90mm (W) x 40mm (H) space for COMPANY LOGO  90mm (W) x 60mm (H) space for AP/RSE/RGE's signature/ and stamp chop				
PROJECT CIC SAMPLE PROJECT  DRAWING TITLE STEEL STRUCTURE BLOCK PLAN AND GENERAL NOTES  SCALE AS SHOWN@A1  DRAWING NO. REV. NO RO01  SOURCE  90mm (W) x 40mm (H) space for COMPANY LOGO  90mm (W) x 60mm (H) space for AP/RSE/RGE's signature/ and stamp chop				
PROJECT CIC SAMPLE PROJECT  DRAWING TITLE STEEL STRUCTURE BLOCK PLAN AND GENERAL NOTES  SCALE AS SHOWN@A1  DRAWING NO. REV. NO RO01  SOURCE  90mm (W) x 40mm (H) space for COMPANY LOGO  90mm (W) x 60mm (H) space for AP/RSE/RGE's signature/ and stamp chop				
PROJECT CIC SAMPLE PROJECT  DRAWING TITLE STEEL STRUCTURE BLOCK PLAN AND GENERAL NOTES  SCALE AS SHOWN@A1  DRAWING NO. REV. NO RO01  SOURCE  90mm (W) x 40mm (H) space for COMPANY LOGO  90mm (W) x 60mm (H) space for AP/RSE/RGE's signature/ and stamp chop				
PROJECT CIC SAMPLE PROJECT  DRAWING TITLE STEEL STRUCTURE BLOCK PLAN AND GENERAL NOTES  SCALE AS SHOWN@A1  DRAWING NO. REV. NO RO01  SOURCE  90mm (W) x 40mm (H) space for COMPANY LOGO  90mm (W) x 60mm (H) space for AP/RSE/RGE's signature/ and stamp chop				
CIC SAMPLE PROJECT  DRAWING TITLE STEEL STRUCTURE BLOCK PLAN AND GENERAL NOTES  SCALE AS SHOWN@A1  DRAWING NO. REV. NO R001  SOURCE  90mm (W) x 40mm (H) space for COMPANY LOGO  90mm (W) x 60mm (H) space for AP/RSE/RGE's signature/ and stamp chop	REV [	DATE		AMENDMENT
PRAWING NO. REV. NO.  RO01  SOURCE  90mm (W) x 40mm (H) space for COMPANY LOGO  90mm (W) x 60mm (H) space for AP/RSE/RGE's signature/ and stamp chop	DRAWING TIT	LE RUCTUR	RE BLOC	K PLAN AN
PRAWING NO.  REV. NO.  ROURCE  90mm (W) x 40mm (H) space for COMPANY LOGO  90mm (W) x 60mm (H) space for AP/RSE/RGE's signature/ and stamp chop	GENERAL I	NOTES		
PRAWING NO.  REV. NO.  ROURCE  90mm (W) x 40mm (H) space for COMPANY LOGO  90mm (W) x 60mm (H) space for AP/RSE/RGE's signature/ and stamp chop	SCALE ACC	110147	<b>a</b> 4.1	
POURCE  90mm (W) x 40mm (H) space for COMPANY LOGO  90mm (W) x 60mm (H) space for AP/RSE/RGE's signature/ and stamp chop			<b>⊮</b> A I	DEV. N
90mm (W) x 40mm (H) space for COMPANY LOGO  90mm (W) x 60mm (H) space for AP/RSE/RGE's signature/ and stamp chop				KEV. N
90mm (W) x 40mm (H) space for COMPANY LOGO  90mm (W) x 60mm (H) space for AP/RSE/RGE's signature/ and stamp chop	NUUT			
90mm (W) x 60mm (H) space for AP/RSE/RGE's signature/ and stamp chop				
90mm (W) x 60mm (H) space for AP/RSE/RGE's signature/ and stamp chop	SOURCE			
90mm (W) x 60mm (H) space for AP/RSE/RGE's signature/ and stamp chop				
for AP/RSE/RGE's signature/ and stamp chop		90mm (\)	N) x 40mn	n (H) space
for AP/RSE/RGE's signature/ and stamp chop		90mm (v for COM	N) x 40mn IPANY LO	n (H) space GO
for AP/RSE/RGE's signature/ and stamp chop		90mm (\ for COM	W) x 40mr IPANY LO	n (H) space GO
for AP/RSE/RGE's signature/ and stamp chop		90mm (\ for CON	N) x 40mn IPANY LO	n (H) space GO
for AP/RSE/RGE's signature/ and stamp chop		90mm (\ for COM	N) x 40mn IPANY LO	n (H) space GO
signature/ and stamp chop		90mm (\) for COM	W) x 40mr IPANY LO	n (H) space GO
BD's OFFICAL USE		for COM	IPANY LO	GO  n (H) space
BD's OFFICAL USE		90mm (v	N) x 60mm	GO  n (H) space
BD's OFFICAL USE		90mm (v	N) x 60mm	GO  n (H) space
BD's OFFICAL USE		90mm (v	N) x 60mm	GO  n (H) space
		90mm (v	N) x 60mm	GO  n (H) space
	SOURCE	90mm (\) for AP/R signatur	N) x 60mm	GO  n (H) space
	SOURCE	90mm (\) for AP/R signatur	N) x 60mm	GO  n (H) space
	SOURCE	90mm (\) for AP/R signatur	N) x 60mm	GO  n (H) space
	SOURCE	90mm (\) for AP/R signatur	N) x 60mm	GO  n (H) space

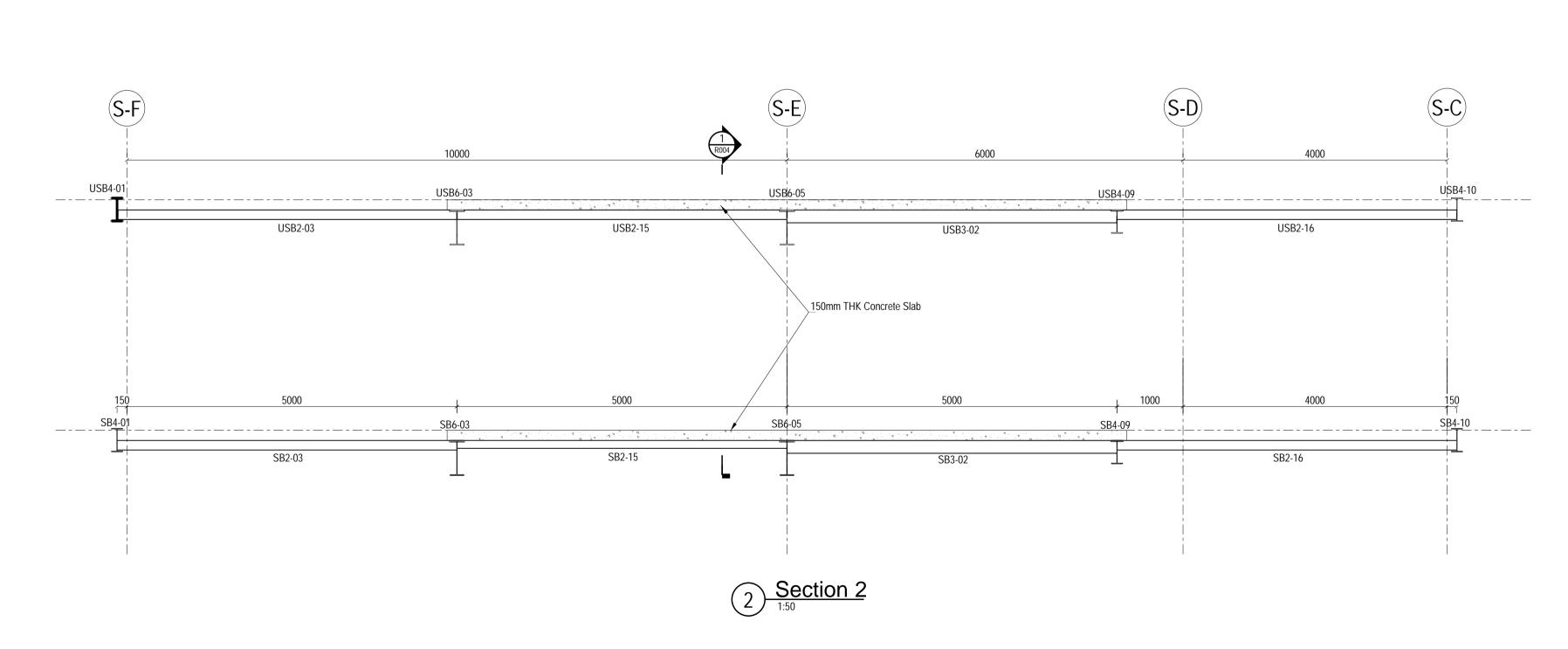
90mm (W) x 150mm (H) space for BD's approval stamp / certification of copies of approved plans (PNAP ADM-10 APP A)

BD REF









BD REF BIM REF PROJECT CIC SAMPLE PROJECT DRAWING TITLE
STEEL STRUCTURE SECTIONS SCALE AS SHOWN@A1 DRAWING NO. REV. NO. R004 SOURCE ---90mm (W) x 40mm (H) space for COMPANY LOGO 90mm (W) x 60mm (H) space for AP/RSE/RGE's signature/ and stamp chop BD's OFFICAL USE 90mm (W) x 150mm (H) space for BD's approval stamp / certification of copies of approved plans (PNAP ADM-10 APP A)