

PILE CAP SCHEDULE (PC5, PC6, PC8 & PC9)					
MARK	WIDTH	LENGTH	DEPTH	PILE DIA.	NO. PILES
PC5	7000	9000	1200	750	14
PC6	6645	9780	REFER SECTION	750	8
PC8	6350	14600	1000	750	13
PC9	6000	9150	1100	750	10

FOOTING LAP CHART - FOR D500N REINF BARS						
BAR SIZE	MIN CONCRETE STRENGTH (MPa)					
	32	40	50	60	70	80
	BOTTOM	TOP	BOTTOM	TOP	BOTTOM	TOP
N12	500	600	500	600	500	600
N16	650	800	650	800	650	800
N20	800	1000	800	950	800	1000
N24	1050	1350	950	1200	950	1150
N28	1350	1750	1200	1550	1100	1400
N32	1650	2150	1500	1950	1300	1700
N36	2000	2600	1800	2300	1600	2050
N40	2350	3050	2100	2700	1900	2450

- MINIMUM COVER TO LAPPED BAR = 50mm
- MINIMUM CLEAR DISTANCE BETWEEN BARS BEING LAPPED = 100mm
- LAP LENGTHS ARE IN ACCORDANCE WITH AS3600-2009 (A1+A2), AS3600-2018, AS1010-2-2017 (A+A1)
- FOR STRAIGHT DEVELOPMENT LENGTH, DIVIDE ABOVE LAP LENGTHS BY 1.25
- MULTIPLY TABULATED VALUES BY:
 - 1.3 LIGHT WEIGHT CONCRETE
 - 1.5 FOR EPOXY COATED BARS

FOOTING TIE SCHEDULE			
TIE TYPE	REINFORCEMENT IN SETS	TIE SHAPE	COMMENTS
T1	2N16		VERTICAL LEGS TO BE SPACED NOMINALLY EQUALLY
T2	3N16		VERTICAL LEGS TO BE SPACED NOMINALLY EQUALLY

1. The drawings are prepared by the Engineer for the purpose of construction and shall be used in accordance with the specifications and standards of the relevant authorities. The Engineer is not responsible for any errors or omissions in the drawings or for any consequences arising from the use of the drawings. The drawings are to be used in conjunction with the specifications and standards of the relevant authorities.

DO NOT SCALE DRAWINGS. USE FIGURED DIMENSIONS REFER TO GENERAL NOTES UNLESS NOTED OTHERWISE

NO.	REVISION	DATE	BY	CHKD.	APPD.
1	ISSUED FOR CONSTRUCTION	15/01/2024	JF	JP	JP
2	FOR CONSTRUCTION	15/01/2024	JF	JP	JP
3	FOR CONSTRUCTION	15/01/2024	JF	JP	JP
4	FOR CONSTRUCTION	15/01/2024	JF	JP	JP
5	FOR CONSTRUCTION	15/01/2024	JF	JP	JP
6	FOR CONSTRUCTION	15/01/2024	JF	JP	JP
7	FOR CONSTRUCTION	15/01/2024	JF	JP	JP
8	FOR CONSTRUCTION	15/01/2024	JF	JP	JP
9	FOR CONSTRUCTION	15/01/2024	JF	JP	JP
10	FOR CONSTRUCTION	15/01/2024	JF	JP	JP

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PROJECT
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JAMES COOK UNIVERSITY

DRAWING
FOUNDATION SECTIONS & DETAILS
SHEET 3

PILE CAP PC8 BOTTOM REINFORCEMENT PLAN

SCALE 1 : 50

NOTE: ALL PILES ARE TO BE SET OUT TO ALIGN WITH CENTRELINE OF COLUMN DIRECTLY OVER U.N.O.

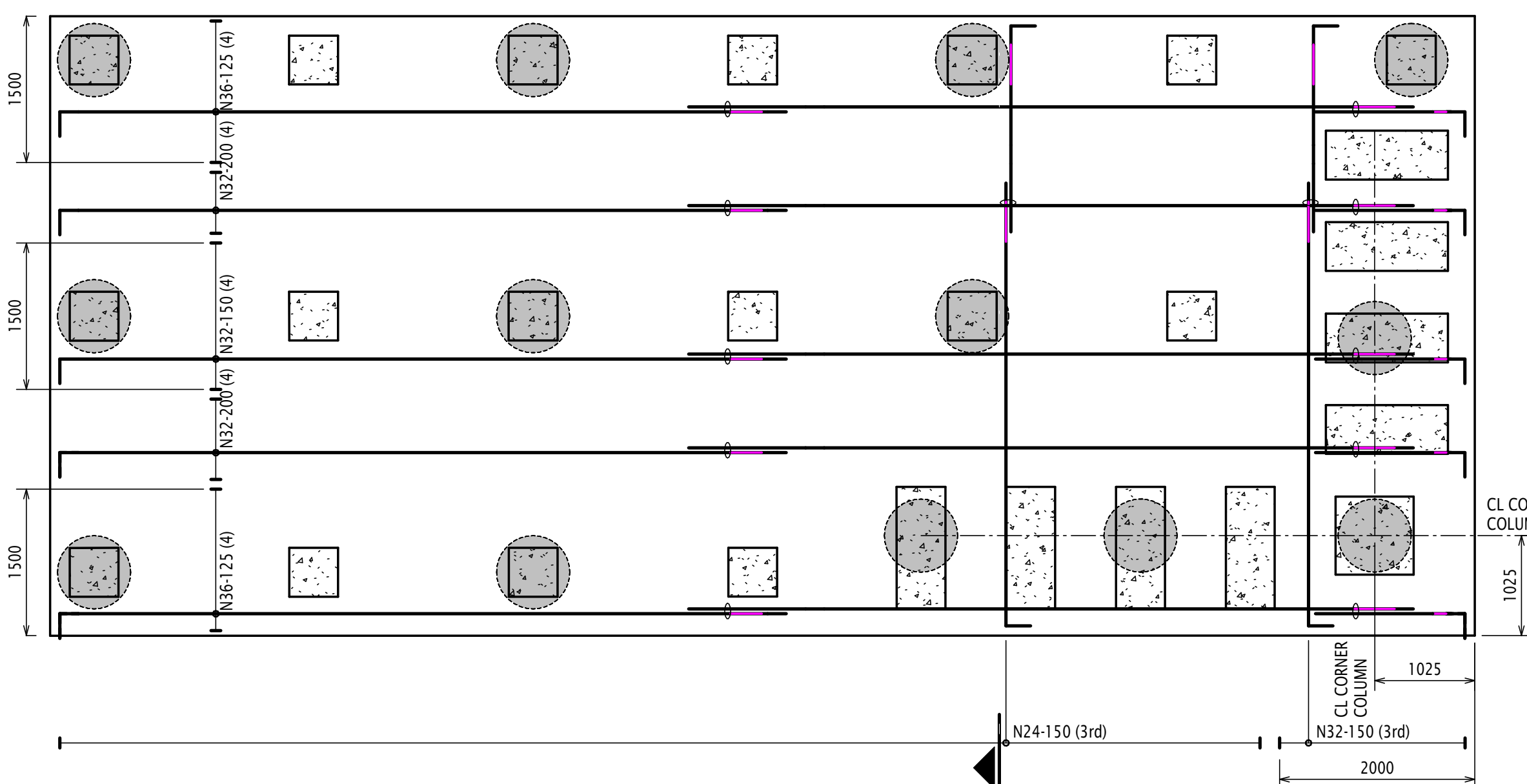


PILE CAP PC8 TOP REINFORCEMENT PLAN

SCALE 1 : 50

NOTE: ALL PILES ARE TO BE SET OUT TO ALIGN WITH CENTRELINE OF COLUMN DIRECTLY OVER U.N.O.

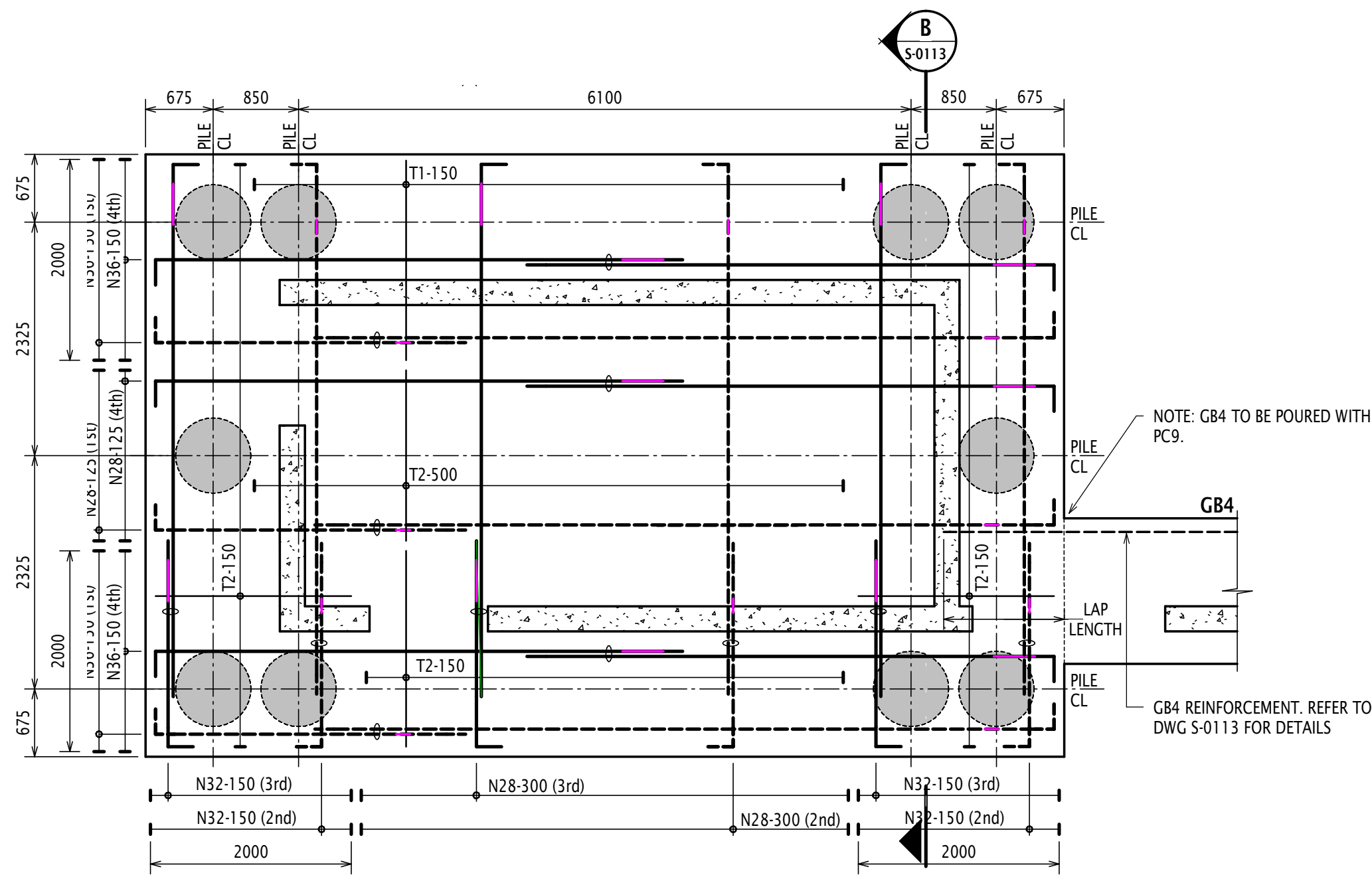
NOTE: STAGGER ALL LAPS FOR N32 OR LARGER. STAGGER ALL LAPS FOR 150 SPACING OR SMALLER. STAGGER LAPS BY A FULL LAP LENGTH MINIMUM.



PILE CAP PC9

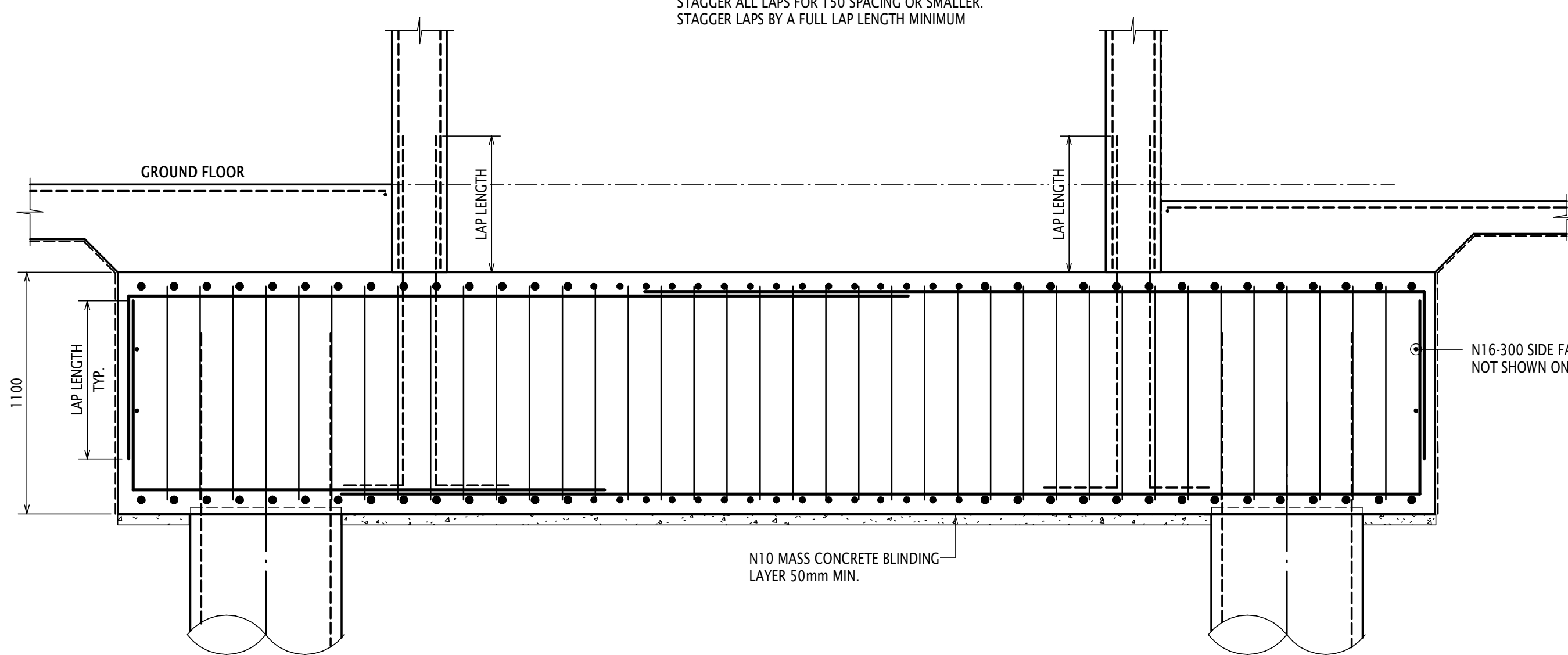
SCALE 1 : 50

NOTE: STAGGER ALL LAPS FOR N32 OR LARGER. STAGGER ALL LAPS FOR 150 SPACING OR SMALLER. STAGGER LAPS BY A FULL LAP LENGTH MINIMUM.



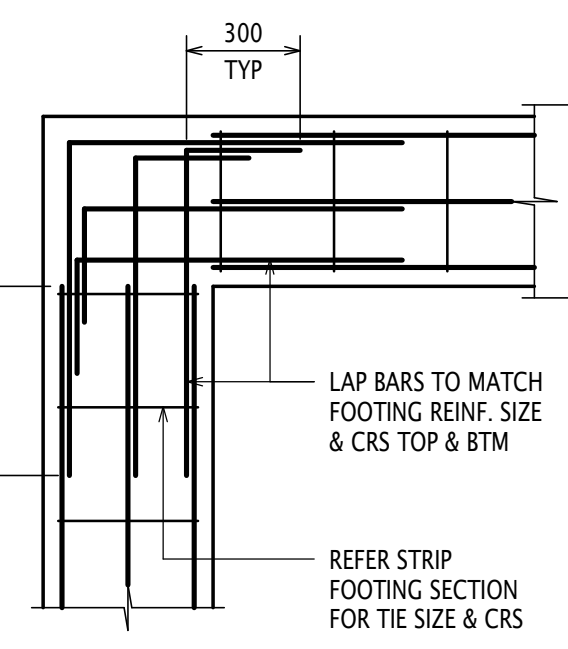
SECTION B

SCALE 1 : 20



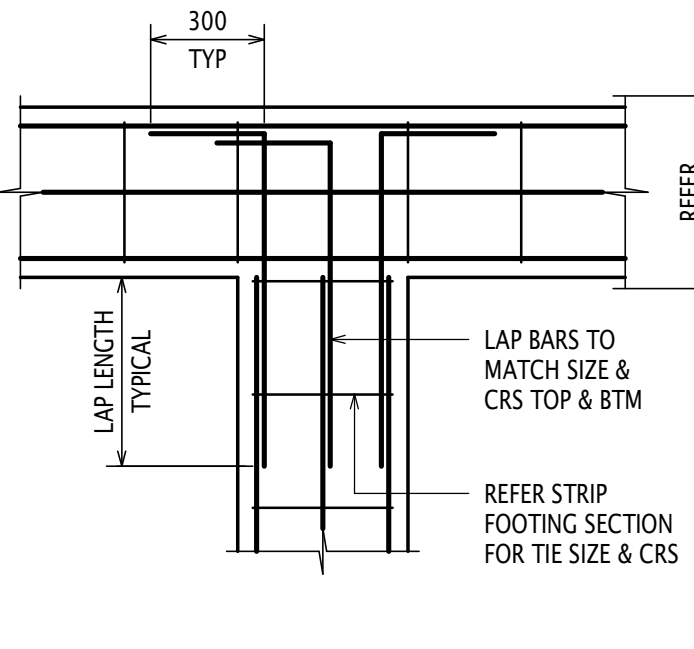
90 DEGREES STRIP FOOTING CORNER DETAIL

SCALE 1 : 20



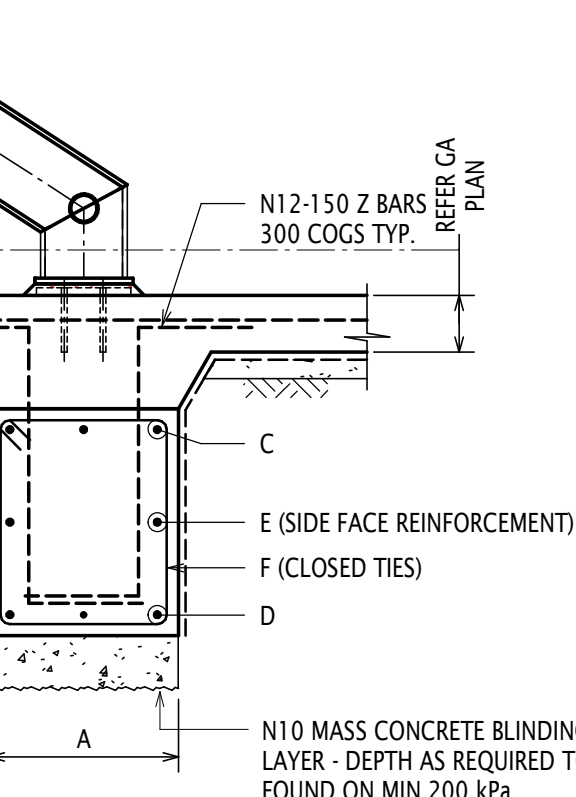
STRIP FOOTING T-INTERSECTION DETAIL

SCALE 1 : 20



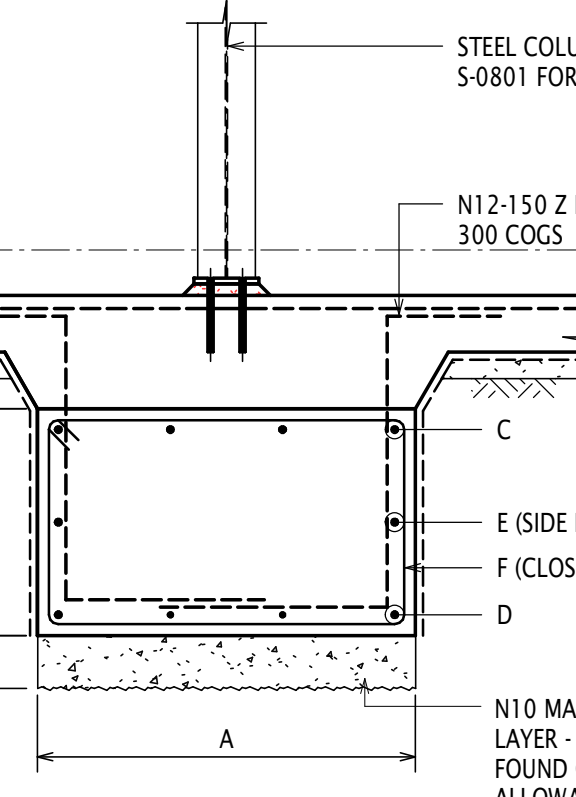
TYPE 1

SCALE 1 : 20



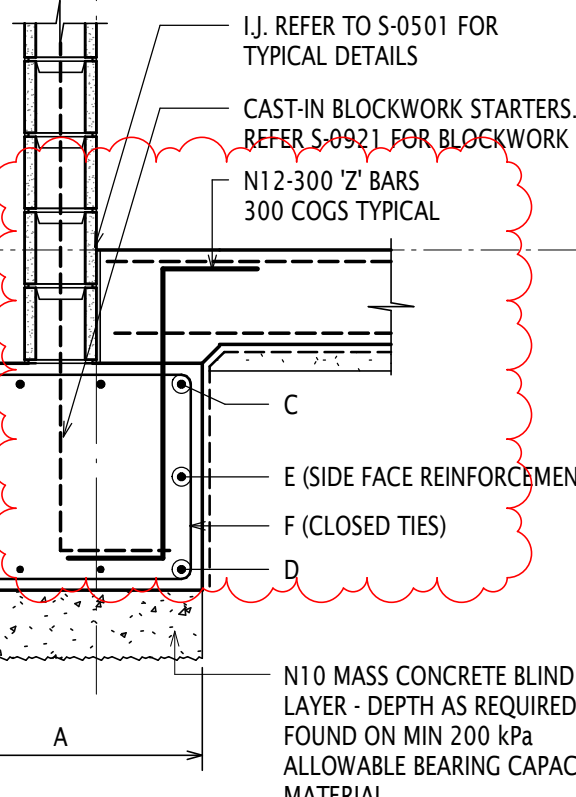
TYPE 2

SCALE 1 : 20



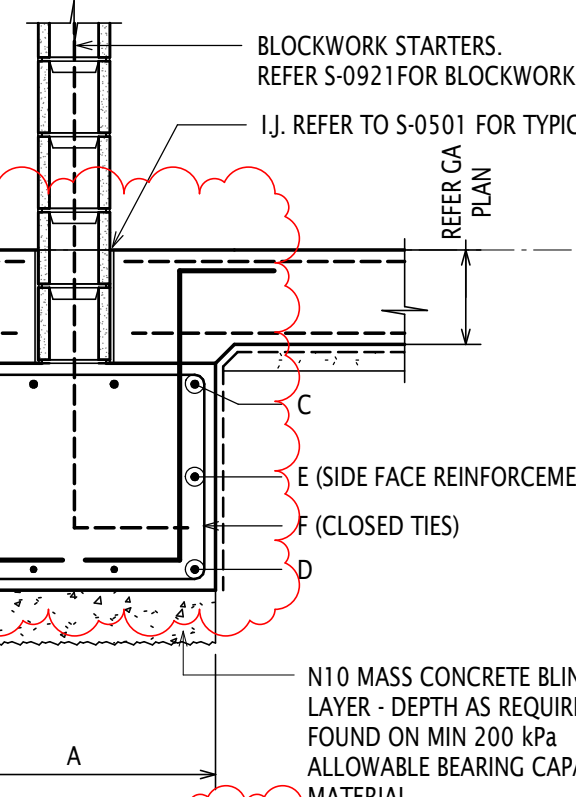
TYPE 3

SCALE 1 : 20



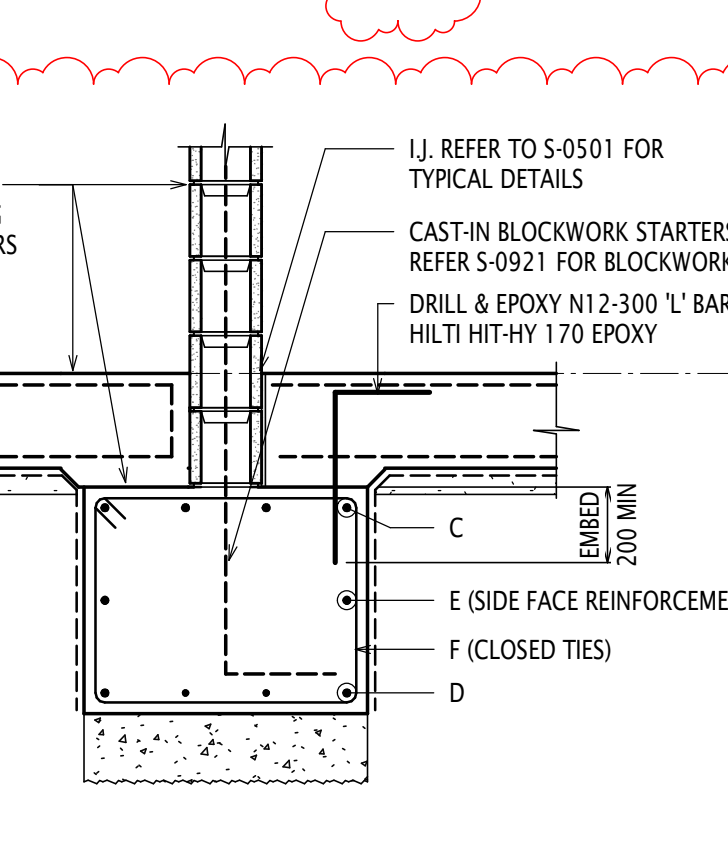
TYPE 4 - UNO

SCALE 1 : 20



TYPE 4 AT SUBSTATION

SCALE 1 : 20



GROUND BEAM SCHEDULE (GB)						
MARK	TYPE	DIMENSIONS		REINFORCEMENT		
		A	B	C	D	E
GB1	1	900	750	7N24	7N24	2N16 EACH FACE
GB2	2	750	600	4N20	4N20	1N16 EACH FACE
GB4	3	1450	900	10N24	10N24	2N16 EACH FACE

LIFT OVER-RUN PIT WALL & BASE NOTES

- BASE TO BE PROVIDED WITH APPROVED WATERPROOF CONCRETE ADDITIVE. THE SUPPLIER AND INSTALLER OF THE WATERPROOF CONCRETE ADDITIVE SHALL SUBMIT FULL DETAILS OF GUARANTEES TO THE BUILDER.
- THE SUPPLIER AND INSTALLER OF THE WATERPROOF CONCRETE ADDITIVE SHALL BE REQUIRED TO CHECK THESE STRUCTURAL DRAWINGS TO ENSURE THAT THEY CONFORM WITH MINIMUM REINFORCEMENT, COVER AND ANY OTHER DETAILS OR REQUIREMENTS THAT MAY BE DEEMED NECESSARY FOR THE ADDITIVE TO FULFIL ITS WATERPROOFING FUNCTION IN COMPLETE ACCORDANCE WITH ITS STATED WARRANTY. THE BUILDER SHALL BE INFORMED OF ANY ADDITIONAL REQUIREMENTS.
- WALLS TO BE TANKED AND WATERPROOFED TO ARCHITECTS DETAILS.

TYPE 1

TYPE 2

TYPE 3

