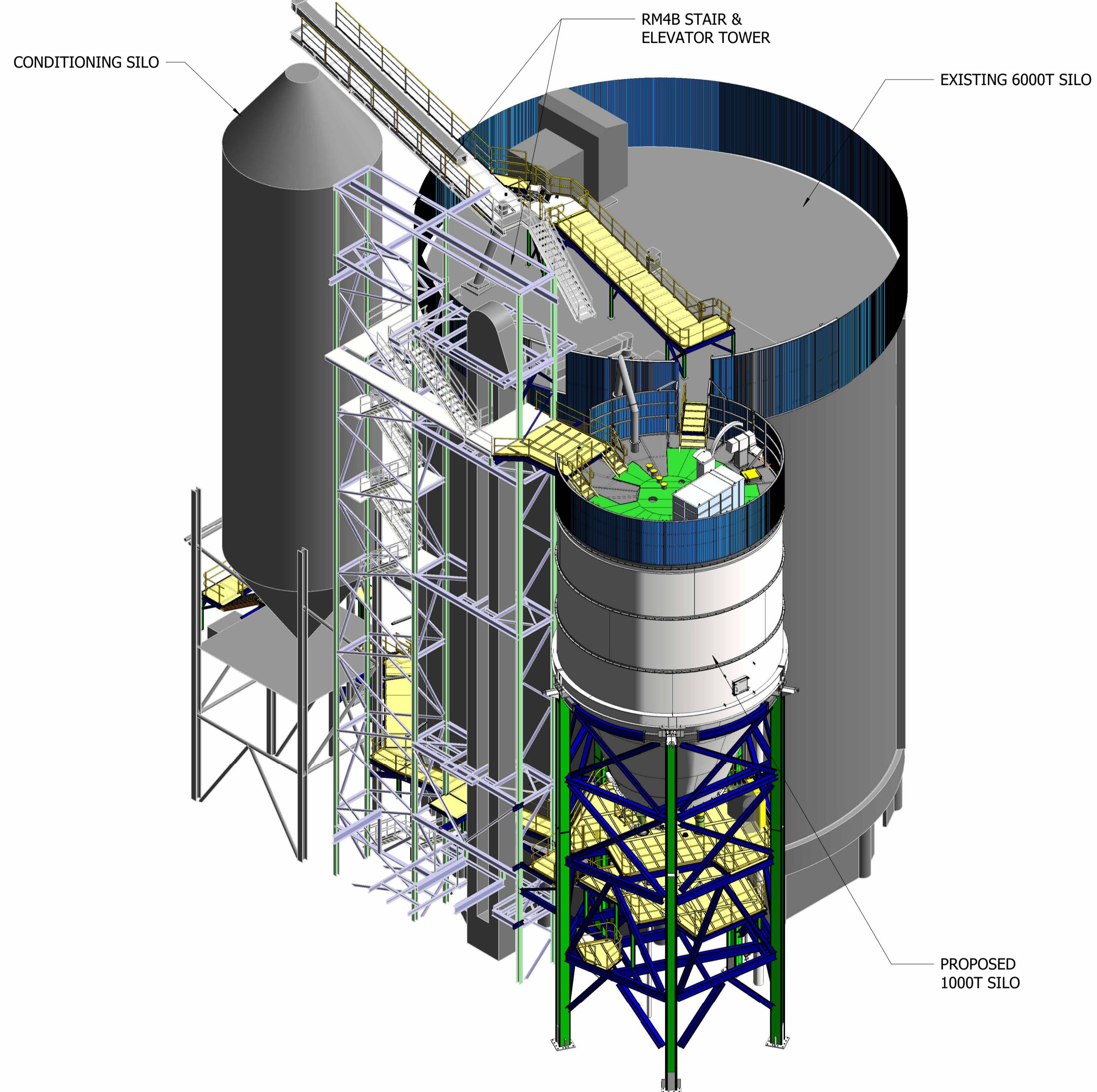
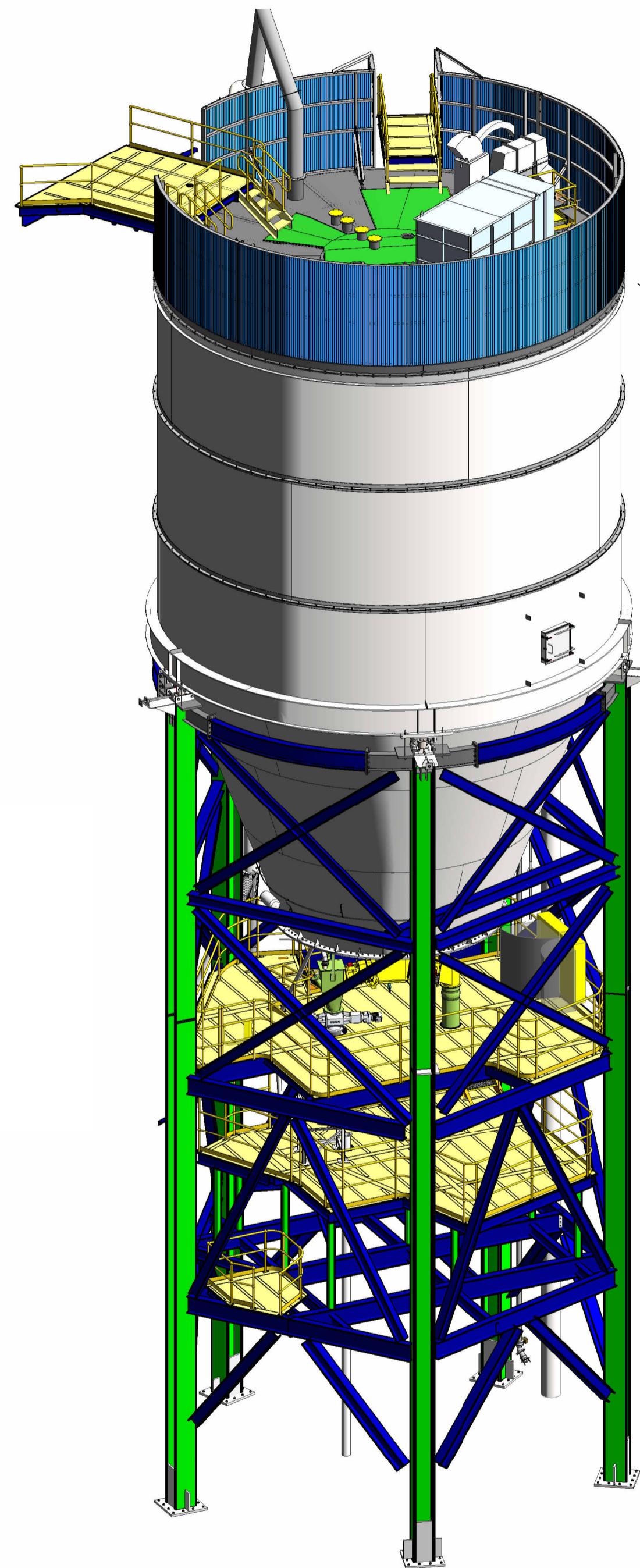


ADBRI BIRKENHEAD 1000T RMS SILO



OVERALL ISOMETRIC VIEW



1000T SILO ISOMETRIC VIEW

DRAWING LIST - STRUCTURAL		
Sheet Number	Sheet Name	Current Revision
STR-001-001	COVER SHEET	D
STR-001-002	MEMBER SCHEDULE	D
STR-001-100	SITE PLAN	D
STR-001-101	FOOTING AND BASE PLATE PLANS	D
STR-001-102	1000T SILO PLAN VIEWS SHEET 1	D
STR-001-103	1000T SILO PLAN VIEWS SHEET 2	D
STR-001-104	1000T SILO PLAN VIEWS SHEET 3	D
STR-001-105	LOWER PLATFORM PLAN VIEW	D
STR-001-106	UPPER PLATFORM PLAN VIEW	D
STR-001-301	SECTION VIEW - 1	D
STR-001-302	LOWER PLATFORM SECTION VIEWS SHEET 1	D
STR-001-303	LOWER PLATFORM SECTION VIEWS SHEET 2	D
STR-001-304	LOWER PLATFORM SECTION VIEW SHEET 3	D
STR-001-305	UPPER PLATFORM SECTION VIEWS	D
STR-001-800	PILE CAP & FOOTING DETAILS	D
STR-001-801	FAN FOOTING DETAILS	D
STR-001-802	DETAILS SHEET 1	D
STR-001-803	DETAILS SHEET 2	D
STR-001-804	SILO FRAME CONNECTIONS - SHEET 1	D
STR-001-805	SILO FRAME CONNECTIONS - SHEET 2	D

IMPORTANT NOTE:

1. TO BE READ IN CONJUNCTION WITH DRW 236-020-MEC-001

REV	DATE	REVISION HISTORY				DRN	CHK	ENG	PM	A1
		BM	DH	DZ	HV					
D	01/03/2023	ISSUED FOR CLIENT REVIEW								DO NOT SCALE
C	20/01/2023	ISSUED FOR REVIEW	SB	DH	DZ	HV				ALL DIMENSIONS IN MILLIMETRES DRAWINGS UNLESS OTHERWISE STATED IF IN DOUBT ASK
B	16/12/2022	ISSUED FOR REVIEW	BM	DH	DZ	HV				Tolerances U.G.O. On dimensions
A	11/11/2022	ISSUED FOR REVIEW	AT	DH	DZ	HV				0 DEP PLACE ±0.5 1 DEP PLACE ±0.2 2 DEP PLACE ±0.1 ALL ANGLES ±0.5°

McMAHON
SERVICES

Customer : McMahon Services
Reference : 236-020

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Mile End, SA, 5031, www.ingenia.com.au

Status : ISSUED FOR CLIENT REVIEW											
Drawn : BM		Date : 01/03/2023	A3 Scale = 2.0 x	A1 Sheet Scale = 1 :	N.T.S.						
Description : ADBRI BIRKENHEAD 1000T RMS SILO COVER SHEET											
Cust. No.	Ref. No.	Type	Dwg. Series	Sheet No.	Revision						
236-020	STR-001-001	D									

STRUCTURAL FOUNDATION SCHEDULE		
TYPE MARK	TYPE	TYPE COMMENTS
FF1	1600x500x200	1600L FAN FOOTING
FF2	2600x500x200mm	2600L FAN FOOTING
P1	900 DIA	REFER TO PILE CONTRACTORS DRAWING FOR FINAL PILE DIMENSION
PC1	3 PILE CAP	1600mm DEEP. REFER TO STR-001-800 FOR PILE CAP DIMENSIONS
PE1	1000 x 1000 x 700 H. max	SILO COLUMN PEDESTAL
PE2	500 x 500	COLUMN PEDESTAL
PF1	900 x 900 x 500mm D	BOTTOM PLATFORM FOOTING PAD

STRUCTURAL COLUMN SCHEDULE

TYPE MARK	TYPE	TYPE COMMENTS
C1	500WC440	1000T SILO COLUMN - GRADE 400
C2	200UC46.2	COLUMN SUPPORTING LOWER PLATFORM
C3	150UC37.2	LOWER PLATFORM COLUMN
C4	150UC23.4	COLUMN SUPPORTING LOWER PLATFORM
C5	125x125x6.0.SHS	LEVEL 1A PLATFORM COLUMN (REFER DETAIL 8)
C6	89x89x6.0.SHS	LOWER PLATFORM - SUPPORT COLUMN
C7	75x75x6.0.SHS	STUB COLUMN SUPPORT STAIR LANDING; 2-M20 8.8/S BOLTS, 10MM CAP PLATE; 4-M20 8.8/S BOLTS, 10MM BASE PLATE
C8	125x125x6.0.SHS	LOWER PLATFORM - SUPPORT COLUMN
EX.C1	200UC52	EXISTING STAIR TOWER COLUMN
EX.C2	200UC 46.2	EXISTING STAIR TOWER COLUMN
EX.C3	200UB29.8	EXISTING STAIR TOWER COLUMN
ST1	89x89x6.0.SHS	STUB COLUMN SUPPORTING BOTTOM PLATFORM

STRUCTURAL FRAMING SCHEDULE

TYPE MARK	TYPE	TYPE COMMENTS
B1	410UB59.7	1000T SILO FRAME BEAM. REFER DETAILS.
B2	250UB 31	LEVEL 1A PLATFORM BEAM. REFER DETAIL 9
B3	250PFC	LEVEL 1A STAIR LANDING/BEAM, 12 THICK CLEAT 3/M20 8.8/S BOLTS
B4	460UB82.1	1000T SILO FLOOR BEAM. REFER DETAIL.
B5	410UB60	1000T SILO CURVED BEAM. REFER DETAIL
B6	250UB31	4 - M20 8.8/S BOLTS, 10 THICK END PLATE TO EXISTING COLUMN FACE. 2-M20 8.8/S BOLTS, 10mm CLEAT TO BEAM. 2 M20 8.8/S BOLTS 10mm CAP PLATE TO COLUMN.
B7	150UC30.0	4 - M20 8.8/S BOLTS, 12 CAP PLATE. 2-M20 8.8/S BOLTS, 12 CLEAT
B8	200PFC	REFER DETAIL. FIXED TO 6000T SILO ROOF SLAB WITH 2-M12 HILTI HSC-A ANCHORS, 60mm EMBEDMENT 12 THICK BASE PLATE. FIXED TO BEAM WITH 2 - M20 8.8/S BOLTS, 10 THICK CLEAT.
B9	250UB31.4	LONG WALKWAY BEAM, 3 - M20 8.8/S BOLTS, 12 THICK CLEAT
B10	230PFC	LONG WALKWAY BEAM, 10THICK END PLATE, 4/M20 8.8/S TO EXISTING COLUMN. 10THICK CLEAT, 2M20 8.8/S BOLTS.
B11	360UB50.7	B11 LONG WALKWAY BEAM, 4M20 8.8/S BOLTS, 12 THICK CLEAT TO BEAM TO BEAM B11 AND B10. 12 THICK CAP PLATE, 4M20 8.8/S BOLTS TO EXISTING COLUMN.
B12	150PFC	WALKWAY BEAM, 2-M20 8.8/S BOLTS, 10 THICK CLEAT.
B13	250UB 31.4	1000T SILO PLATFORM BEAM. REFER DETAILS 11.
B14	250PFC	6000T SILO WALKWAY BEAM, 2-M20 8.8/S BOLTS, 12 THICK END PLATE/CLEAT
B15	300 PFC	RMB4 ACCESS PLATFORM BEAM. REFER DETAILS.
B16 (U)	150UC37.2	LONG WALKWAY BEAM, 2-M20 8.8/S BOLTS, 12 THICK END PLATE / CLEAT. 4M20 8.8/S BOLT TO EXISTING COLUMN,
B17 (U)	200UB29.8	LONG WALKWAY BEAM
B18	250UC 72.9	1000T SILO FRAME BEAM. REFER DETAIL.
B20 (U)	410UB59.7	1000T SILO FLOOR BEAM. REFER DETAIL 5.
B21 (U)	310UB40.4	LONG WALKWAY BEAM, 4 - M20 8.8/S BOLT TO EXISTING COLUMN, 12 THICK END PLATE.
B22	230PFC	TOP PLATFORM WALKWAY BEAM - 2-M20 8.8/S BOLTS TO 1000T SILO ROOF FRAME. 12 THICK BASE PLATE.
BR1	250UC90	1000T SILO DIAGONAL BRACE. REFER DETAIL.
BR2	200UC59.5	1000T SILO DIAGONAL BRACE. REFER DETAIL.
BR3	250PFC	1000T SILO DIAGONAL BRACE. REFER DETAIL.
BR6	90x90x8EA	PLATFORM FLOOR BRACE, 8 THICK CLEAT 2/M20 8.8/S BOLTS
BR7	75x75x6.0SHS	LEVEL 1A PLATFORM COLUMN KNEE BRACE. REFER TYPICAL DETAIL.
BR8	150UC30.0	WALKWAY DIAGONAL BRACE, 10 THICK END PLATE, 2 OR 4-M20 8.8/S BOLTS.
BR10	89x89x6.0SHS	REPLACE BRACE BETWEEN STAIR TOWER & 6000T SILO
BR11	75x75x6.0SHS	LEVEL 1A PLATFORM COLUMN KNEE BRACE. REFER DETAIL.
J1	150UB14.0	1000T SILO FLOOR JOIST @ 600 CRS. REFER TYPICAL DETAIL 1.
J2	150PFC	TOP PLATFORM FLOOR JOIST @ 600 CRS. REFER TYPICAL DETAIL 1.
J3	90x90x8 EA	LONG WALKWAY FLOOR JOIST @ 900 CRS 8 THICK CLEAT 2/M20 8.8/S BOLTS EACH END
J4	100x100x8EA	6000T SILO TOP PLATFORM FLOOR JOIST @ 900 CRS, 8 THICK CLEAT, 2/M20 8.8/S BOLTS.
M1	250UC 73	MONORAIL BEAM (1T MRC) 16THICK END PLATE, 4/M20 8.8/TB BOLTS
TR1	155CT48	1000T SILO PLATFORM TRIMMER, 2-M20 8.8/S BOLTS, 10 THICK CLEAT.

IMPORTANT NOTE:

D	01/03/2023	ISSUED FOR CLIENT REVIEW				BM	DH	DZ	HV	A1 DO NOT SCALE  ALL DIMENSIONS IN MILLIMETRES DRAWINGS UNLESS OTHERWISE STATED IF IN DOUBT ASK	 Customer : McMahon Services Reference : 236-020	 Genius Consulting Pty Ltd, ABN 91 615 110 033 101 Henley Beach Rd, Ph: +61 8 7221 9970 Mile End, SA, 5031, www.ingenia.com.au
C	20/01/2023	ISSUED FOR REVIEW				SB	DH	DZ	HV			
B	16/12/2022	ISSUED FOR REVIEW				BM	DH	DZ	HV			
A	11/11/2022	ISSUED FOR REVIEW				AT	DH	DZ	HV			
REV	DATE	REVISION HISTORY				DRN	CHK	ENG	PM	Tolerances L.O.Q. 0 DEC PLACE 1 DEC PLACE ±0.5 2 DEC PLACE ±0.2 3 DEC PLACE ±0.1 ALL ANGLES ±0.5°		

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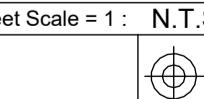
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Drawn : BM Date : 01/03/2023 A3 Scale = 2.0 x A1 Sheet Scale = 1 : N.T.S

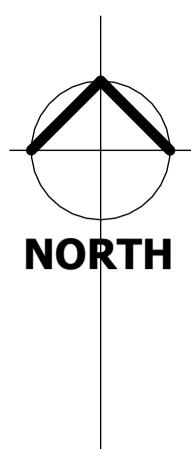
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Cust. No. Ref. No. Type | Dwg. Series | Sheet No. Revision

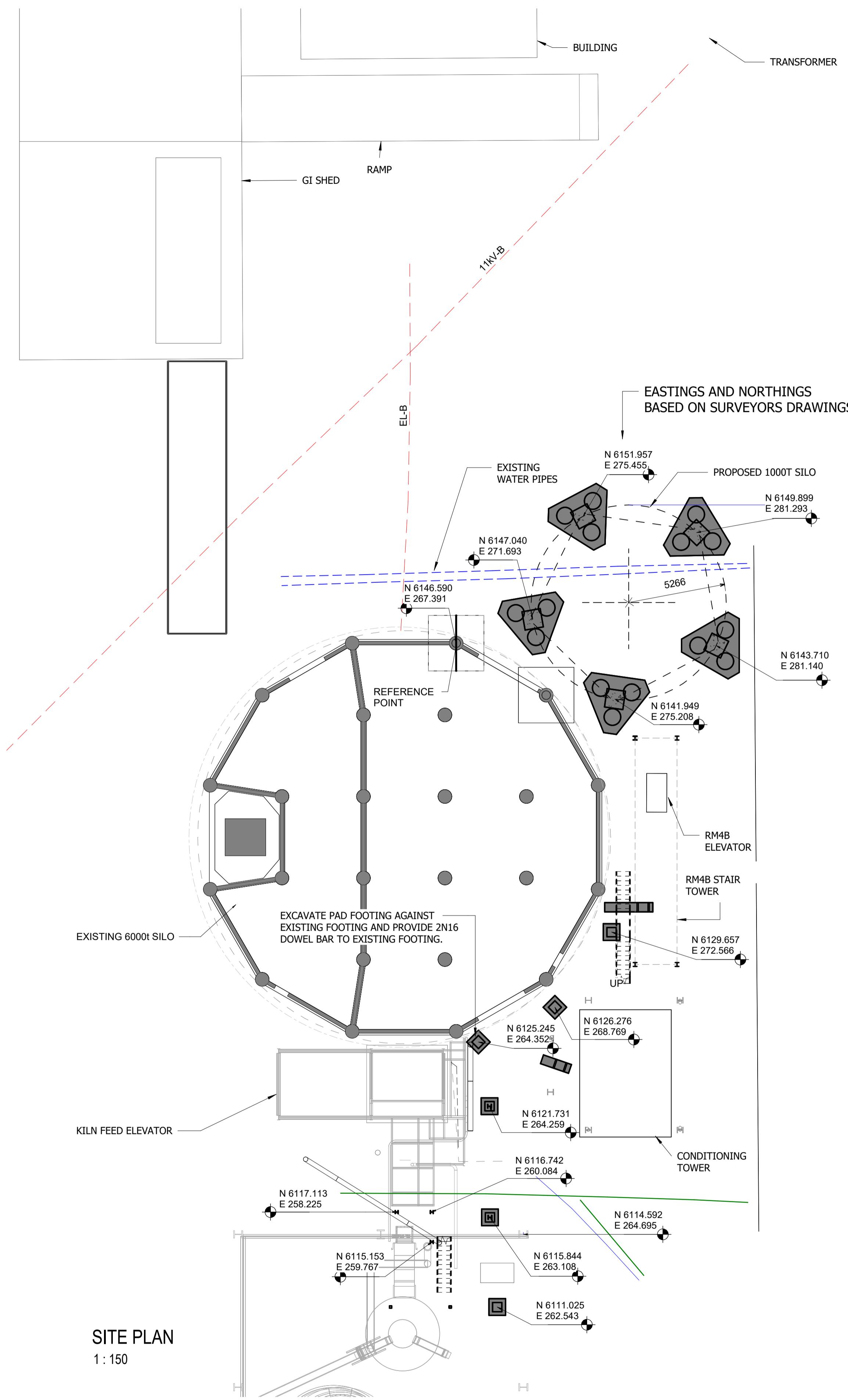
236-020 STR-001-002 D



A1



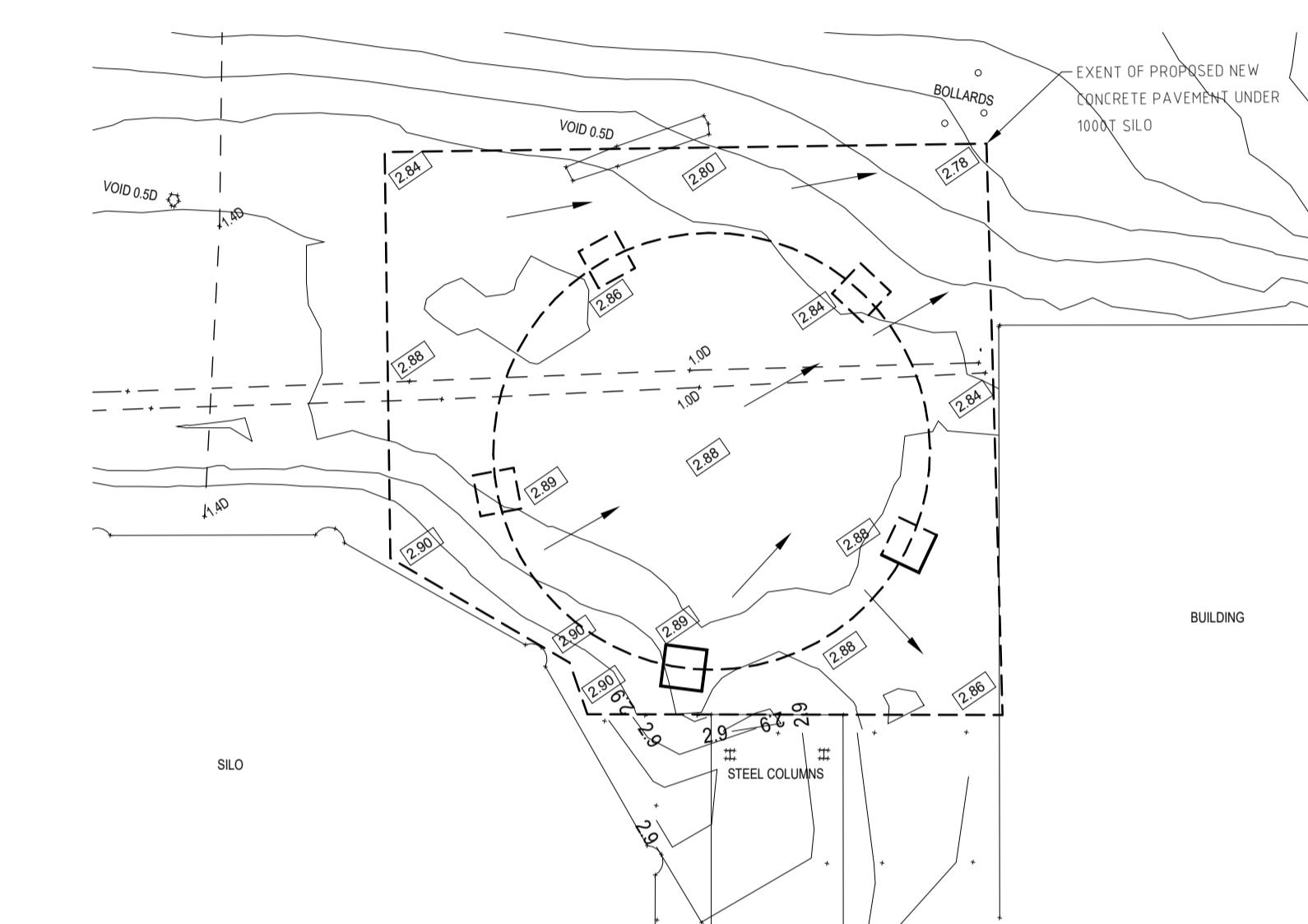
NORTH



IMPORTANT NOTE:

1. FOR SUBSURFACE UTILITIES SURVEY DATA, REFER TO DRAWINGS 304563_D1 & 304563_D1 .

D	01/03/2023	ISSUED FOR CLIENT REVIEW	BM	DH	CS	HV
C	20/01/2023	ISSUED FOR REVIEW	SB	DH	CS	HV
B	16/12/2022	ISSUED FOR REVIEW	BM	DH	DZ	HV
A	11/11/2022	ISSUED FOR REVIEW	AT	DH	DZ	HV
REV	DATE	REVISION HISTORY	DRN	CHK	ENG	PM



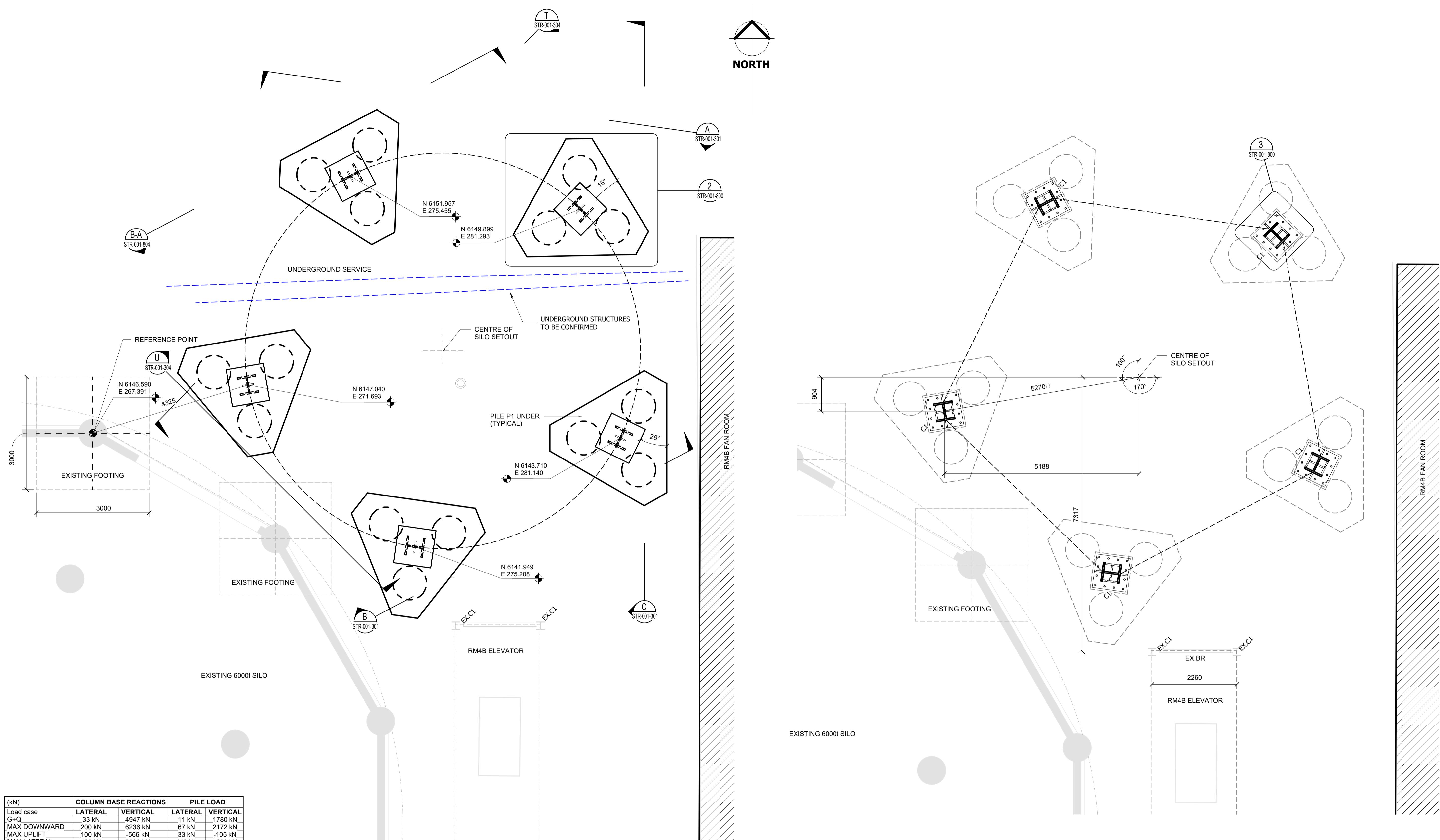
LEGEND

- 1.50 DENOTES EXISTING CONTOUR LEVEL
- 2.09* DENOTES EXIST. SPOT LEVELS.
- 2.35 DENOTES NEW FINISHED PAVEMENT LEVELS USED FOR SETOUT

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Customer : McMahon Services
Reference : 236-020

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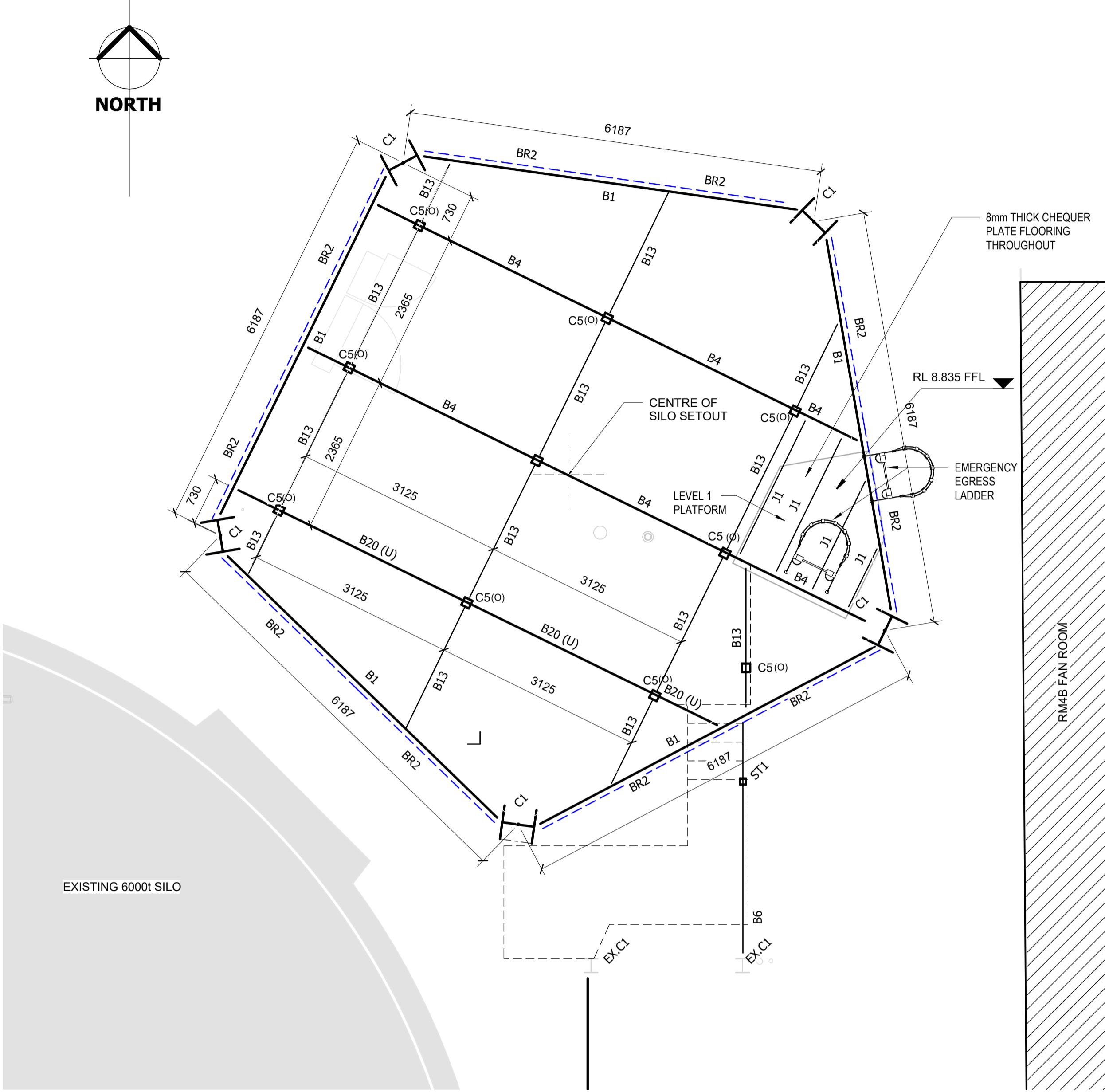
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Drawn : BM Date : 01/03/2023 A3 Scale = 2.0 x A1 Sheet Scale = 1 : 150
Description : ADBRI BIRKENHEAD 1000T RMS SILO SITE PLAN
Cust. No. Ref. No. Type Dwg. Series Sheet No. Revision
236-020 STR-001-100 D



IMPORTANT NOTE:

1. UNDERGROUND STRUCTURES TO BE CONFIRMED

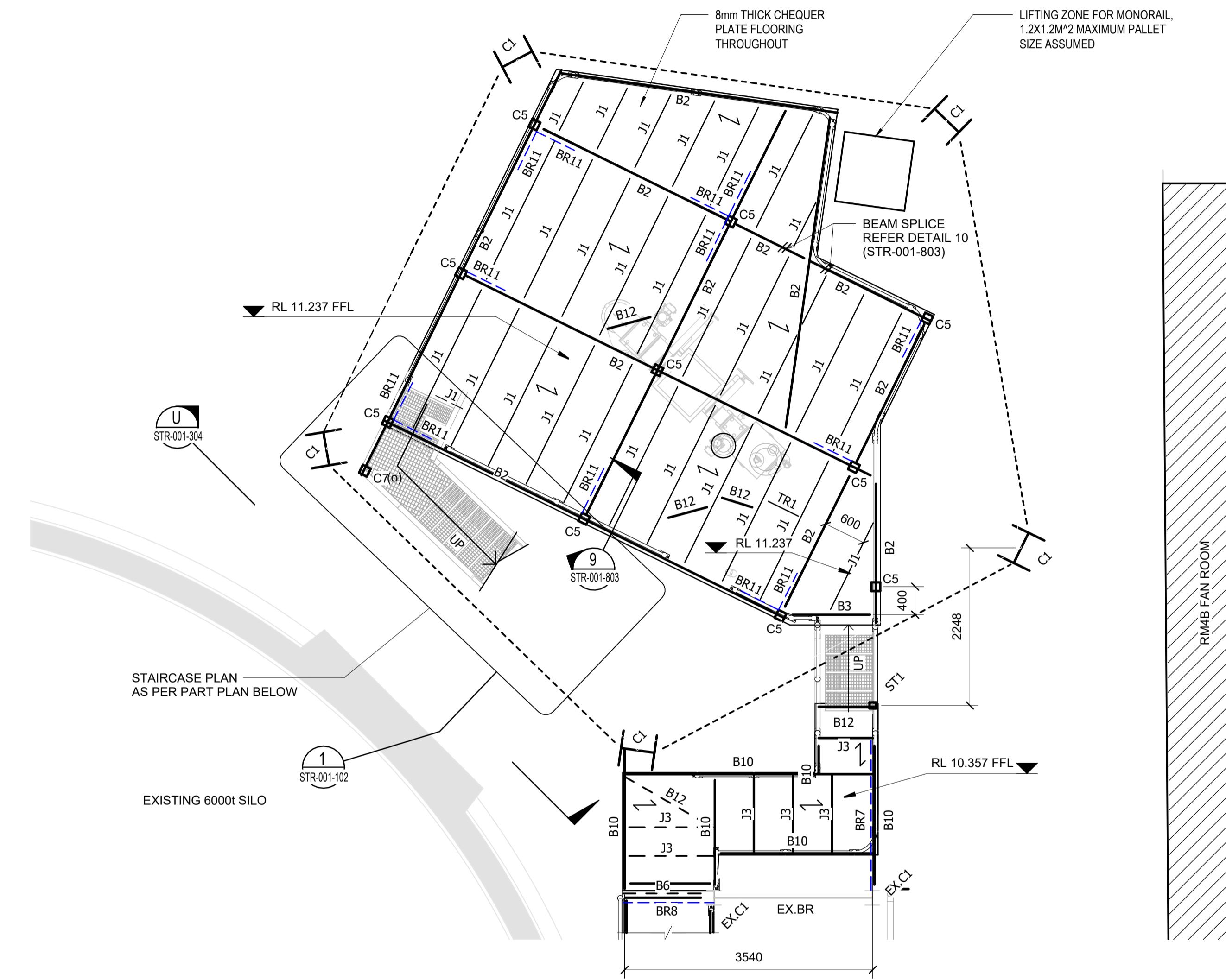
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D	01/03/2023	ISSUED FOR CLIENT REVIEW	BM	DH	DZ	HV	McMAHON SERVICES	Drawn : BM Date : 01/03/2023 A3 Scale = 2.0 x A1 Sheet Scale = 1 : 50
C	20/01/2023	ISSUED FOR REVIEW	SB	DH	DZ	HV	ingenia	Description : ADBRI BIRKENHEAD 1000t RMS SILO
B	16/12/2022	ISSUED FOR REVIEW	BM	DH	DZ	HV		FOOTING AND BASE PLATE PLANS
A	11/11/2022	ISSUED FOR REVIEW	AT	DH	DZ	HV		Cust. No. Ref. No. Type Dwg. Series Sheet No. Revision
REV	DATE	REVISION HISTORY	DRN	CHK	ENG	PM		236-020 STR-001-101 D



LEVEL 1 - PLAN RL 8.829 T.O.S

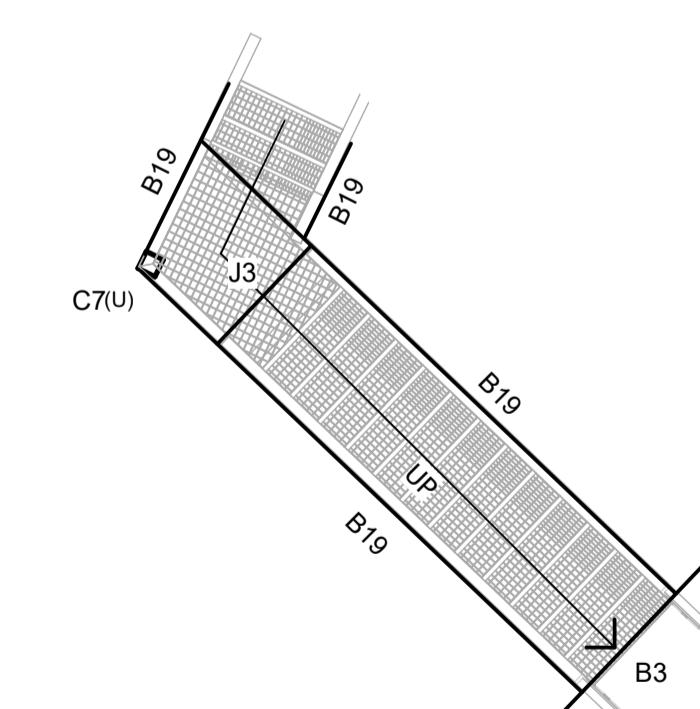
1 : 50

NOTE: (O) DENOTES MEMBER OVER
(U) DENOTES MEMBER UNDER



LEVEL 1-A PLAN RL 11.229 T.O.S

1 : 50

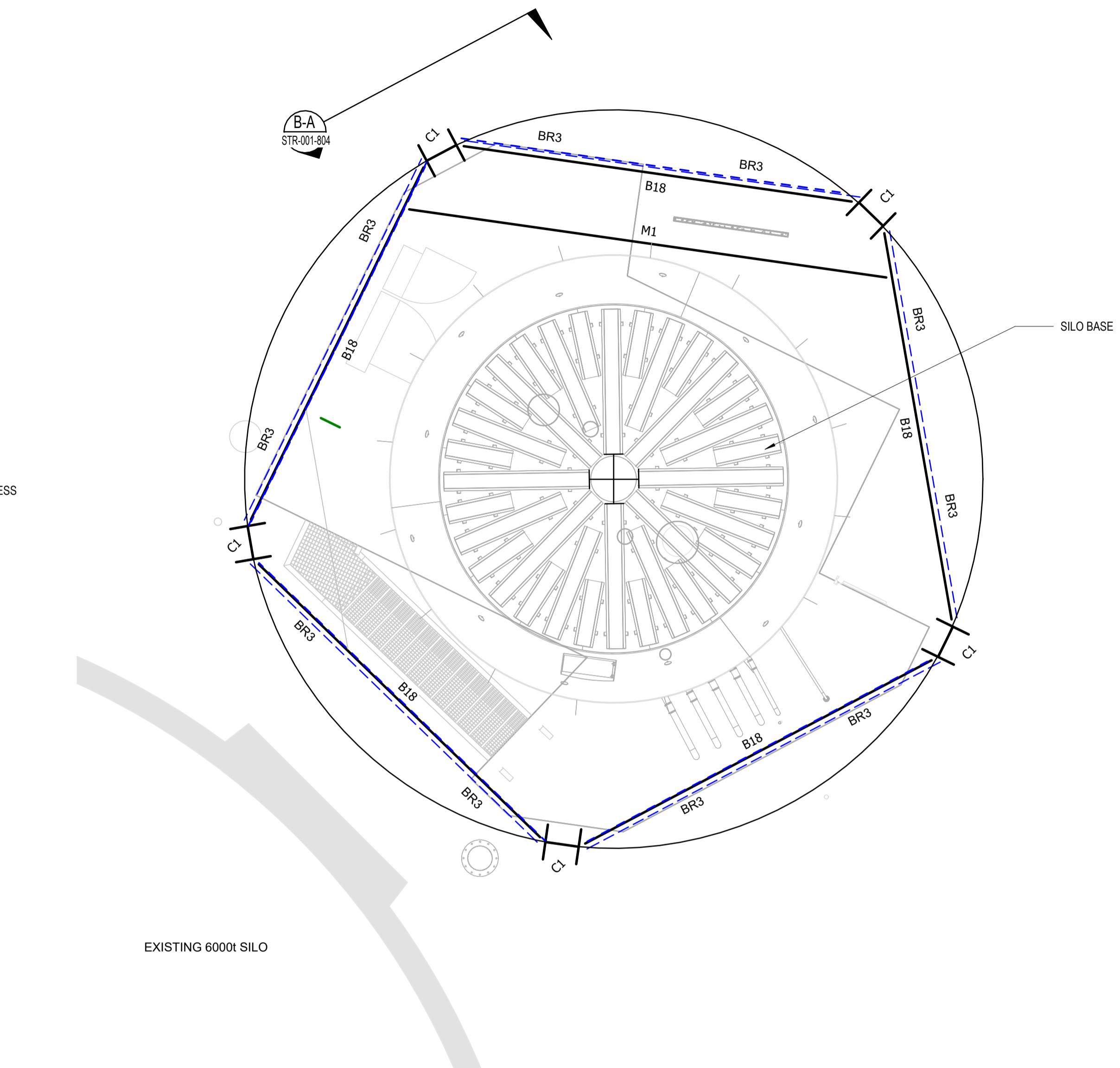
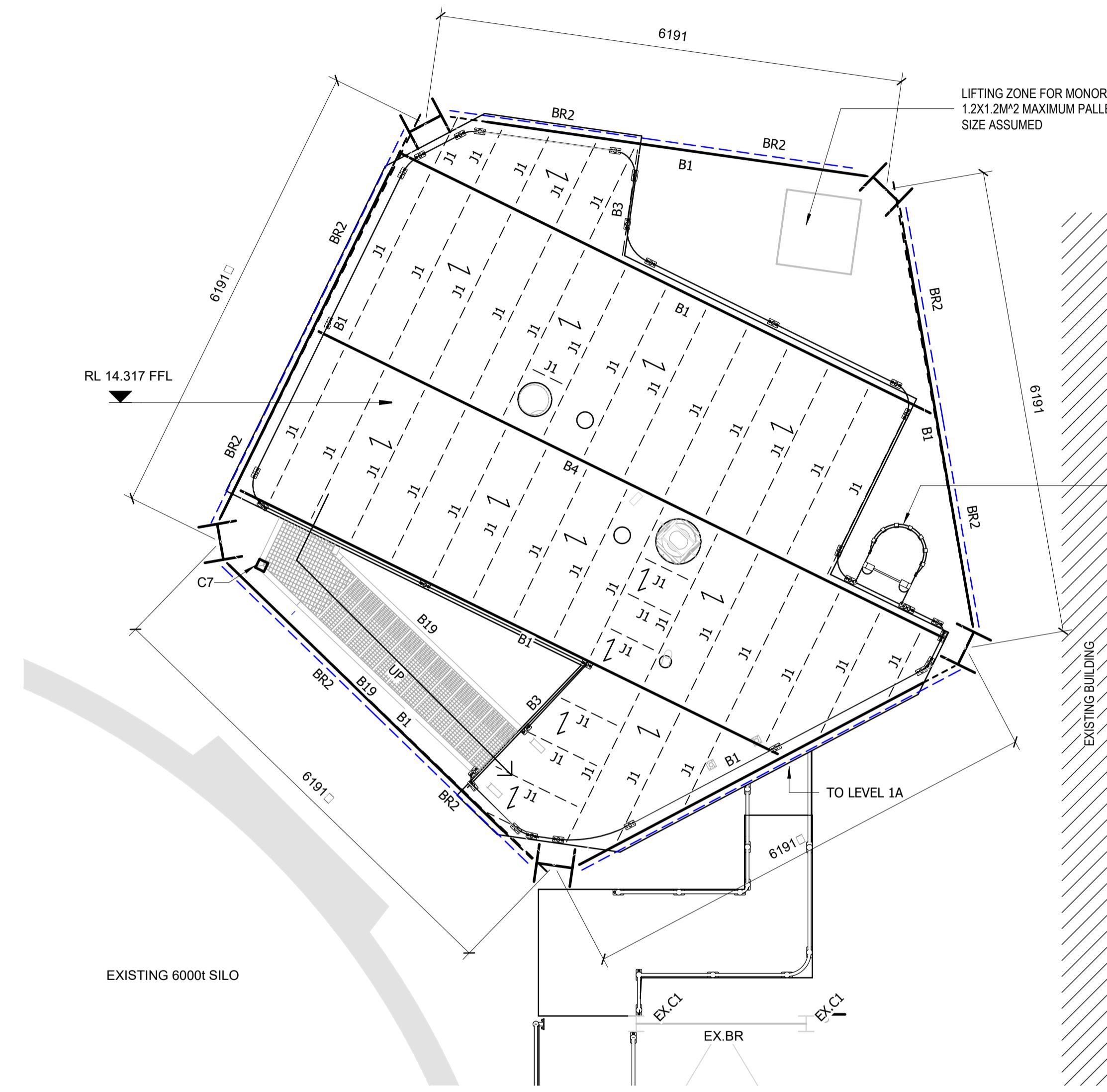
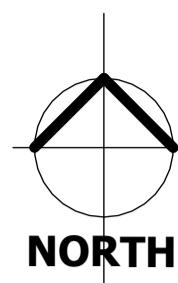


1 STAIRCASE PLAN FROM LEVEL 2 TO 1A
STR-001-102 1 : 50

IMPORTANT NOTE:

→ INDICATES SPAN DIRECTION OF 8MM CHECKERPLATE, G250

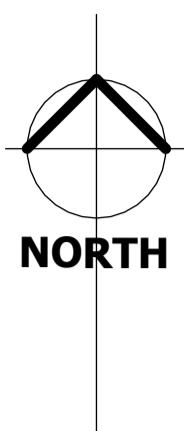
REVISION HISTORY										A1	McMAHON SERVICES	ingenia	Status : ISSUED FOR CLIENT REVIEW
REV	DATE	DRN	CHK	ENG	PM	DO NOT SCALE	ALL DIMENSIONS IN MILLIMETRES DRAWINGS UNLESS OTHERWISE ADVISED IF IN DOUBT ASK	Tolerances U.D.Q.					
D	01/03/2023	ISSUED FOR CLIENT REVIEW	BM	DH									Drawn : BM Date : 01/03/2023 A3 Scale = 2.0 x A1 Sheet Scale = 1 : 50
C	20/01/2023	ISSUED FOR REVIEW	SB	DH	DZ	HV							Description : ADBRI BIRKENHEAD 1000t RMS SILO
B	16/12/2022	ISSUED FOR REVIEW	BM	DH	DZ	HV							3rd Angle
A	11/11/2022	ISSUED FOR REVIEW	AT	DH	DZ	HV							A1
													Customer : McMahon Services Reference : 236-020



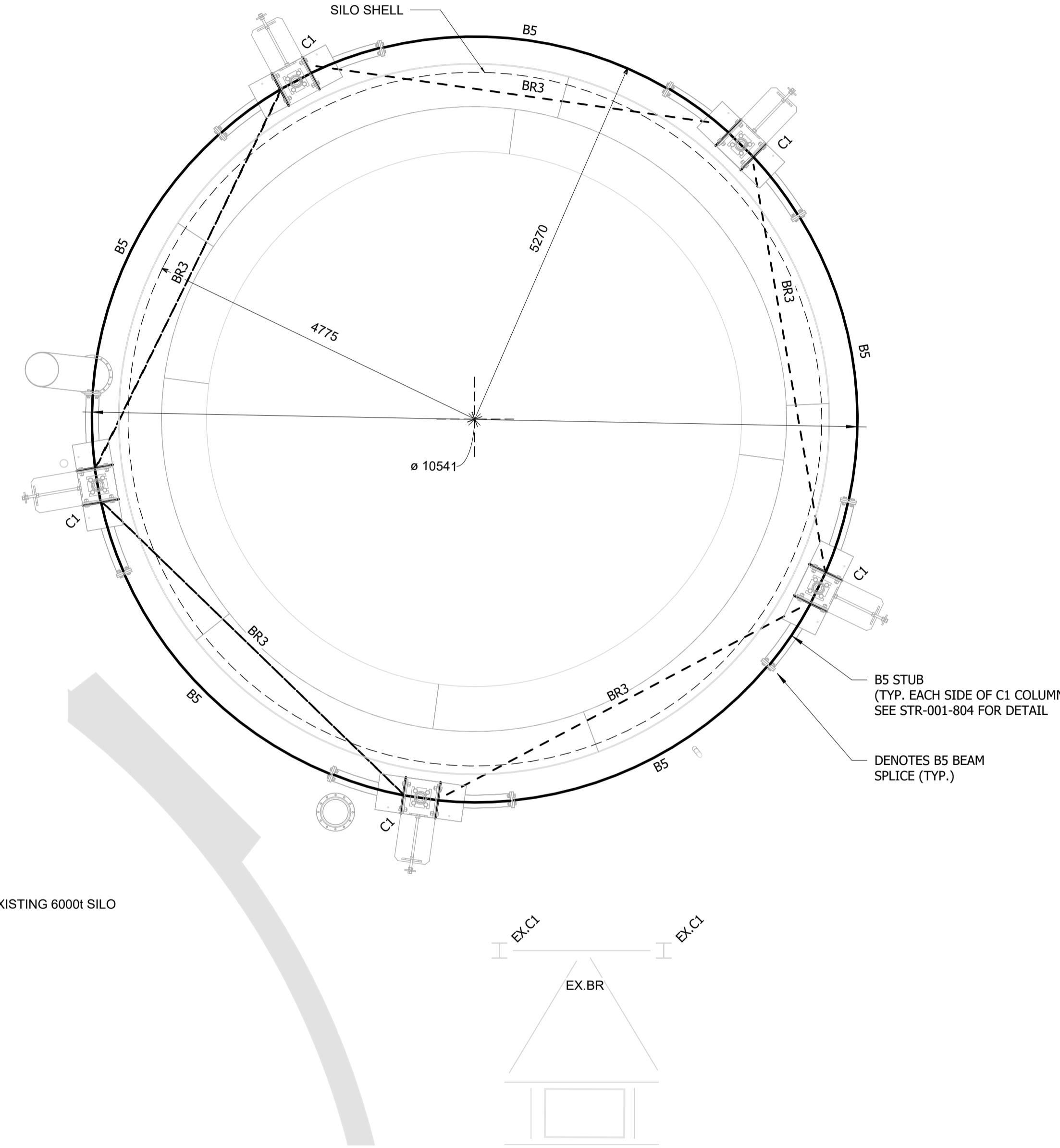
IMPORTANT NOTE:

→ INDICATES SPAN DIRECTION OF 8MM CHECKERPLATE, G250

A1										Status : ISSUED FOR CLIENT REVIEW	
DO NOT SCALE ALL DIMENSIONS IN MILLIMETRES DRAWINGS UNLESS OTHERWISE STATED IF IN DOUBT ASK Customer : McMahon Services Reference : 236-020										A1 3rd Angle A1	
D	01/03/2023	ISSUED FOR CLIENT REVIEW								McMAHON SERVICES	
C	20/01/2023	ISSUED FOR REVIEW								ingenia	
B	16/12/2022	ISSUED FOR REVIEW								Genius Consulting Pty Ltd, ABN 91 615 110 033 101 Henley Beach Rd, Ph: +61 8 7221 9970 Mile End, SA, 5031, www.ingenia.com.au	
A	11/11/2022	ISSUED FOR REVIEW								236-020	STR-001-103
REV	DATE	REVISION HISTORY								Customer : McMahon Services Reference : 236-020	D
		DRN	CHK	ENG	PM						

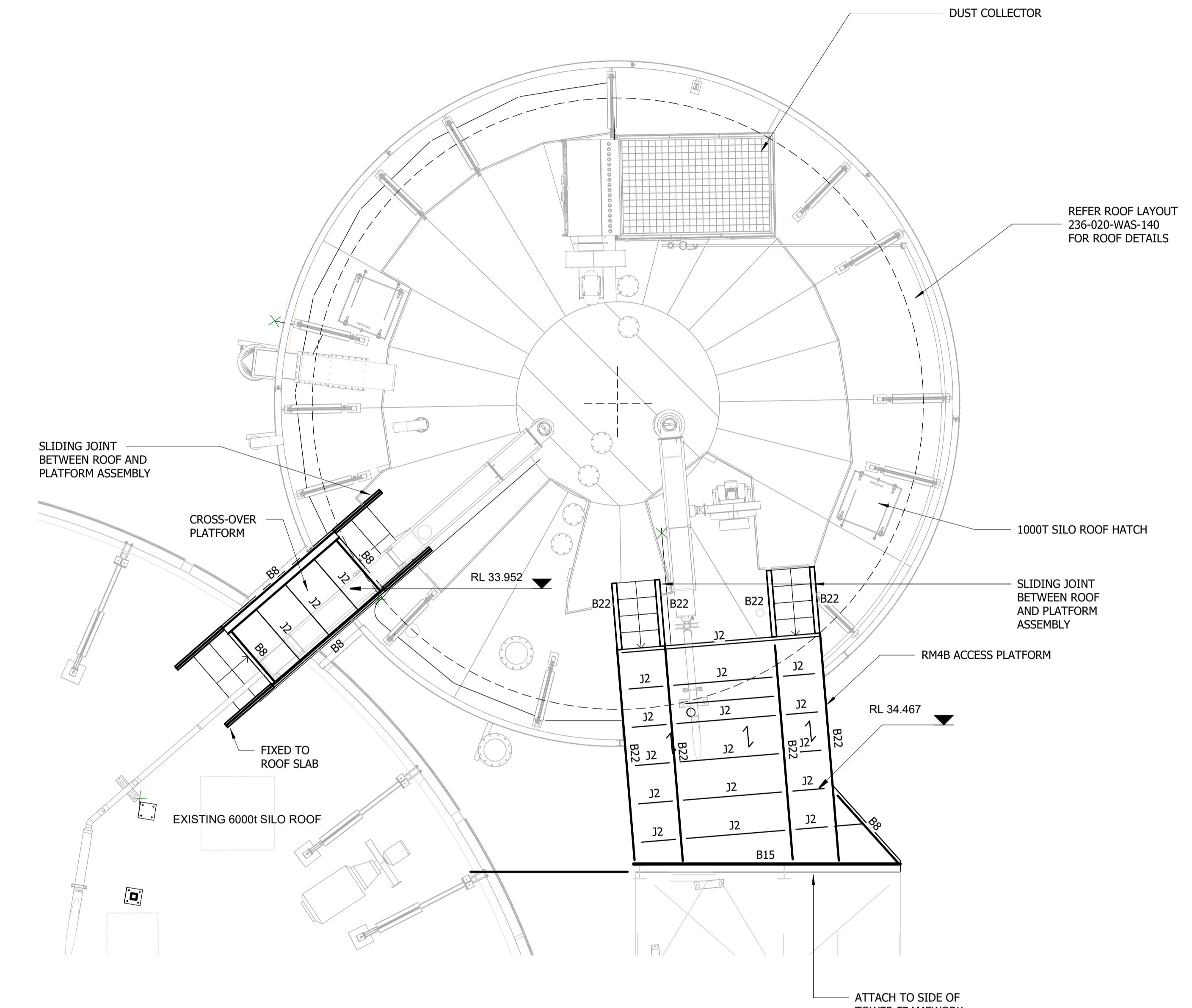


NORTH



1000T SILO TOP FRAME - PLAN RL 23.572

1:50



1000T SILO ROOF PLAN RL 33.716

1:50

REFER TO DRW 236-020-STR-001-0106 FOR PLATFORM MEMBER SIZES.

REFER TO DRW 236-020-STR-100 FOR ROOF STRUCTURE, MEMBER SIZES AND ARRANGEMENT

IMPORTANT NOTE:

→ INDICATES SPAN DIRECTION OF 8MM CHECKERPLATE, G250

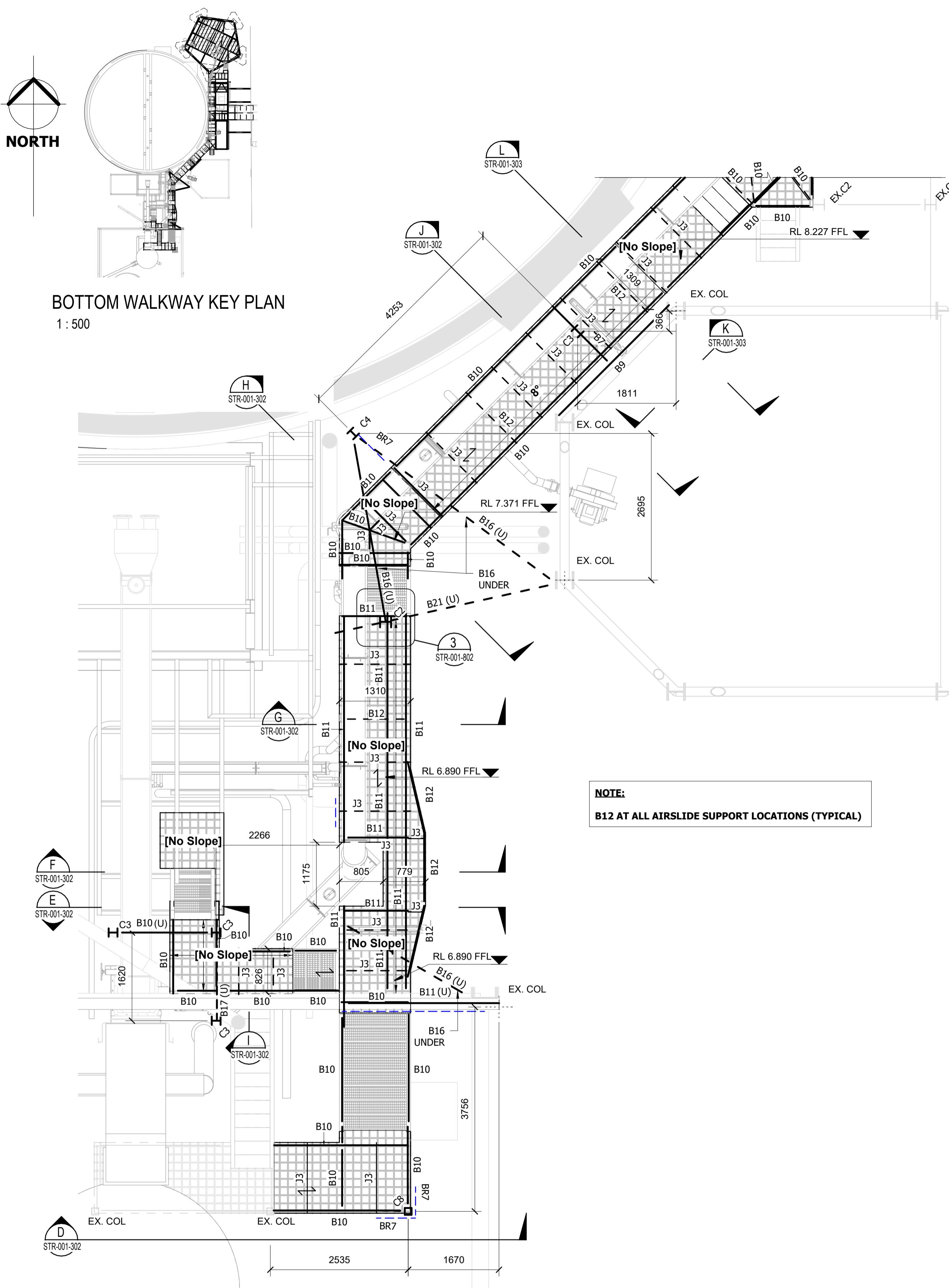
REV	DATE	REVISION HISTORY				DRN	CHK	ENG	PM	A1
		BM	DH	DZ	HV					
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C	20/01/2023	ISSUED FOR REVIEW	SB	DH	DZ	HV				
B	16/12/2022	ISSUED FOR REVIEW	BM	DH	DZ	HV				
A	11/11/2022	ISSUED FOR REVIEW	AT	DH	DZ	HV				

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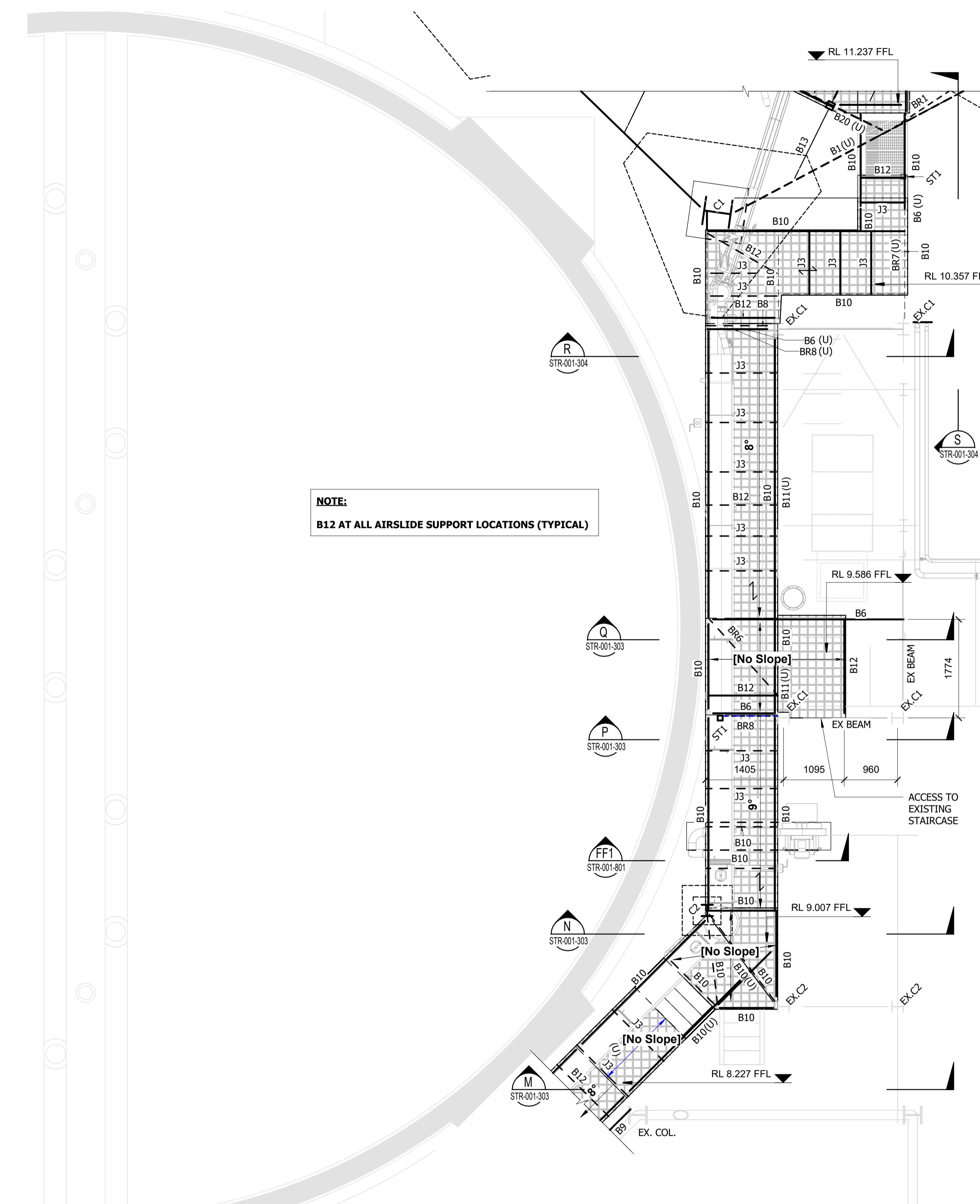
Status : ISSUED FOR CLIENT REVIEW											
Drawn : BM		Date : 01/03/2023	A3 Scale = 2.0 x	A1 Sheet Scale = 1 :	50						
Description : ADBRI BIRKENHEAD 1000T RMS SILO											
1000T SILO PLAN VIEWS SHEET 3											
Cust. No.	Ref. No.	Type	Dwg. Series	Sheet No.	Revision						
236-020	STR-001-104	D									



LOWER AIRSLIDE MAINTENANCE PLATFORM LAYOUT (RL 2.779 to RL 5.568)
1 : 50

IMPORTANT NOTE:

 INDICATES SPAN DIRECTION OF 8MM CHECKERPLATE, G250



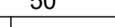
LOWER AIRSLIDE MAINTENANCE PLATFORM LAYOUT (RL 5.568 to RL 8.695)
1 : 50

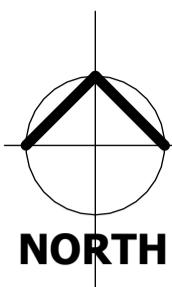
							A1	 DO NOT SCALE  ALL DIMENSIONS IN MILLIMETRES DRAWING PRACTICE TO AS1100 IF IN DOUBT ASK <u>Tolerances U.N.O.</u> On dimensions 0 DEC PLACE ±0.5 1 DEC PLACE ±0.2 2 DEC PLACE ±0.10 ALL ANGLES ±0.5°
D	01/03/2023	ISSUED FOR CLIENT REVIEW	BM	DH	DZ	HV		
C	20/01/2023	ISSUED FOR REVIEW	SB	DH	DZ	HV		
B	16/12/2022	ISSUED FOR REVIEW	BM	DH	DZ	HV		
A	11/11/2022	ISSUED FOR REVIEW	AT	DH	DZ	HV		
REV	DATE	REVISION HISTORY	DRN	CHK	ENG	PM		

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Status :		ISSUED FOR CLIENT REVIEW			
Drawn : BM	Date : 01/03/2023	A3 Scale = 2.0 x	A1 Sheet Scale = 1 :	50	
Description :	ADBRI BIRKENHEAD 1000T RMS SILO LOWER PLATFORM PLAN VIEW				 3rd Angle A1
Cust. No.	Ref. No.	Type	Dwg. Series	Sheet No.	Revision
236-020	STR-001-105				D



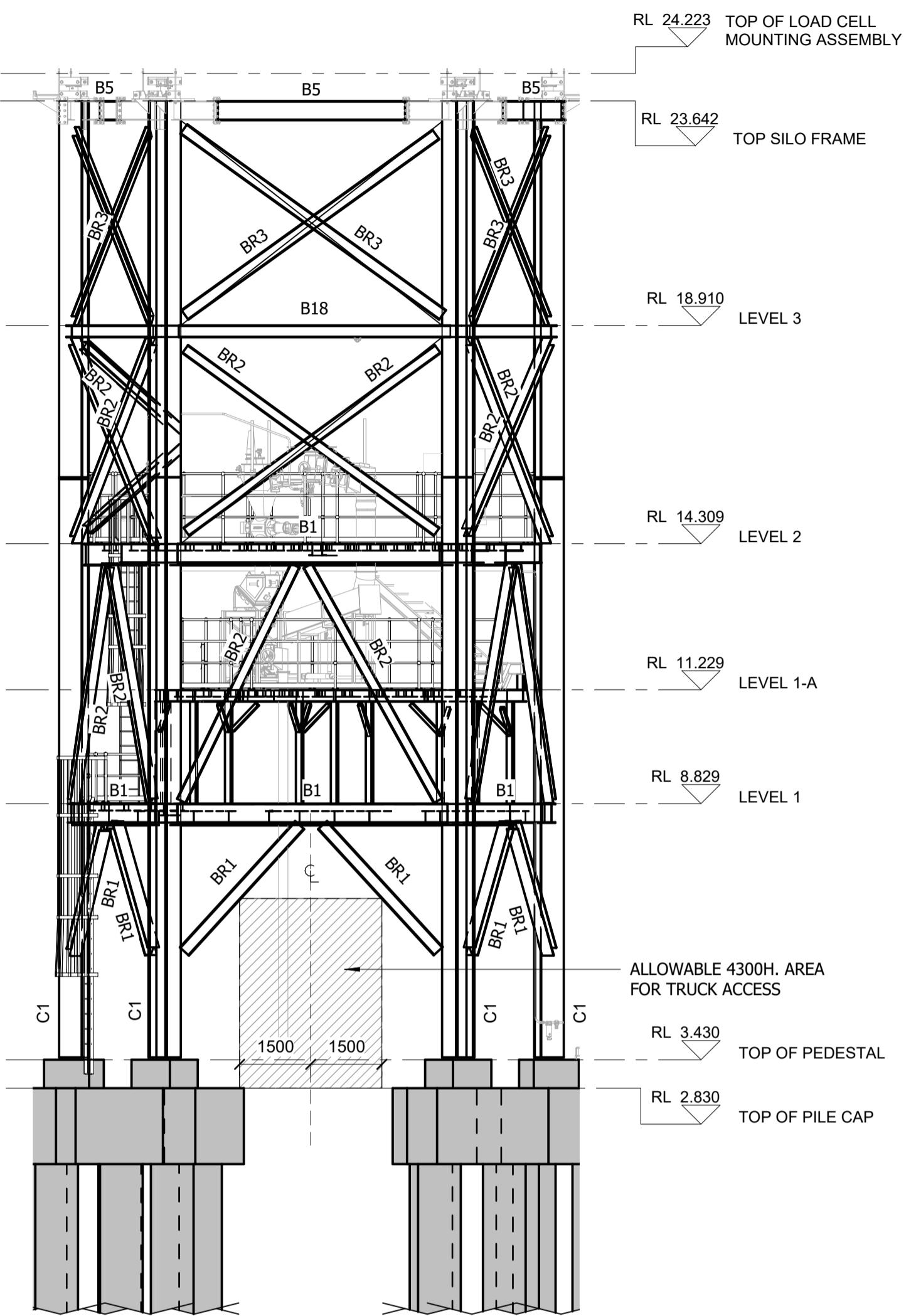
UPPER AIRSLIDE MAINTENANCE PLATFORM LAYOUT

1 : 50

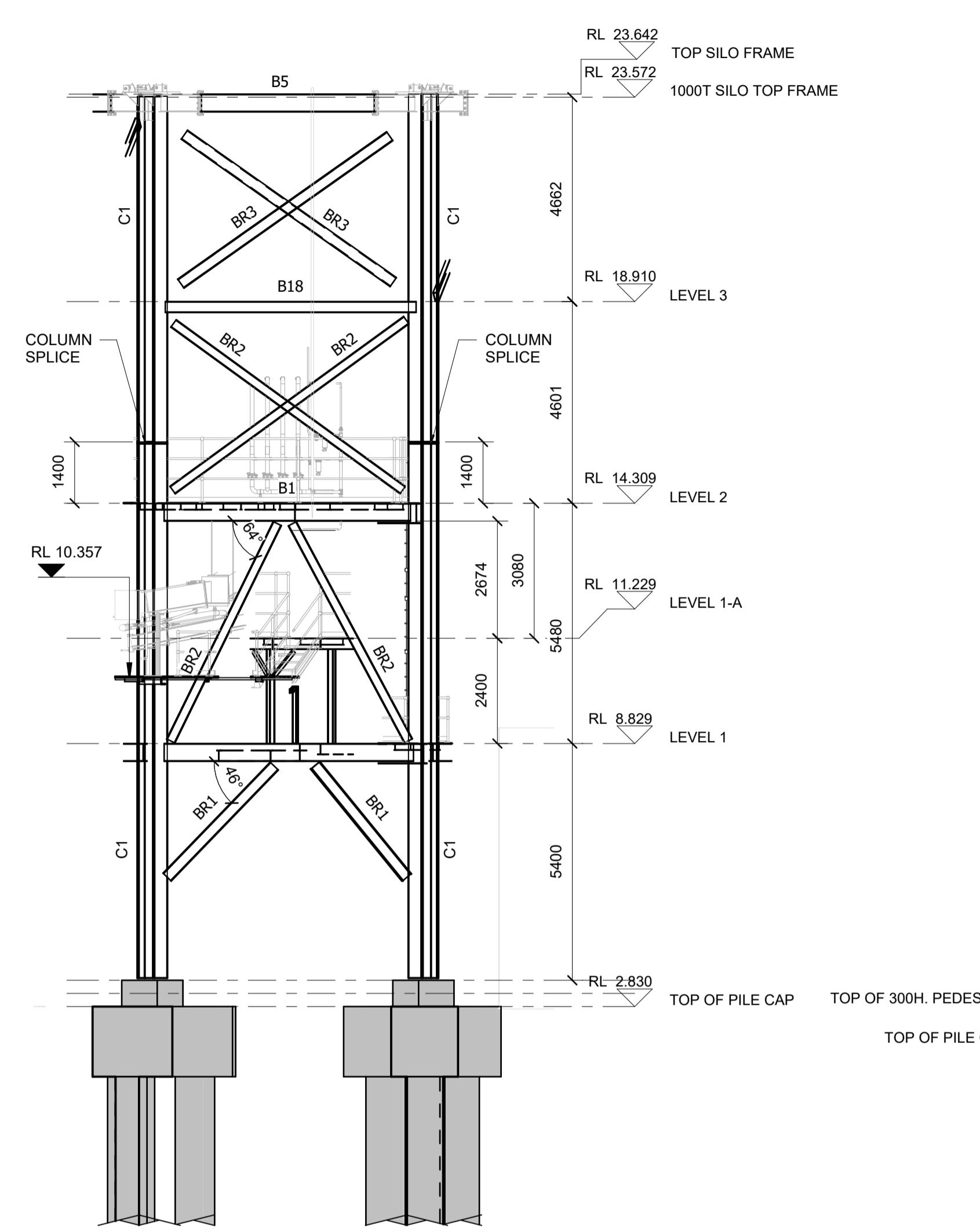
IMPORTANT NOTE:

→ DIRECTION OF CHECKER PLATE 8mm (G250)

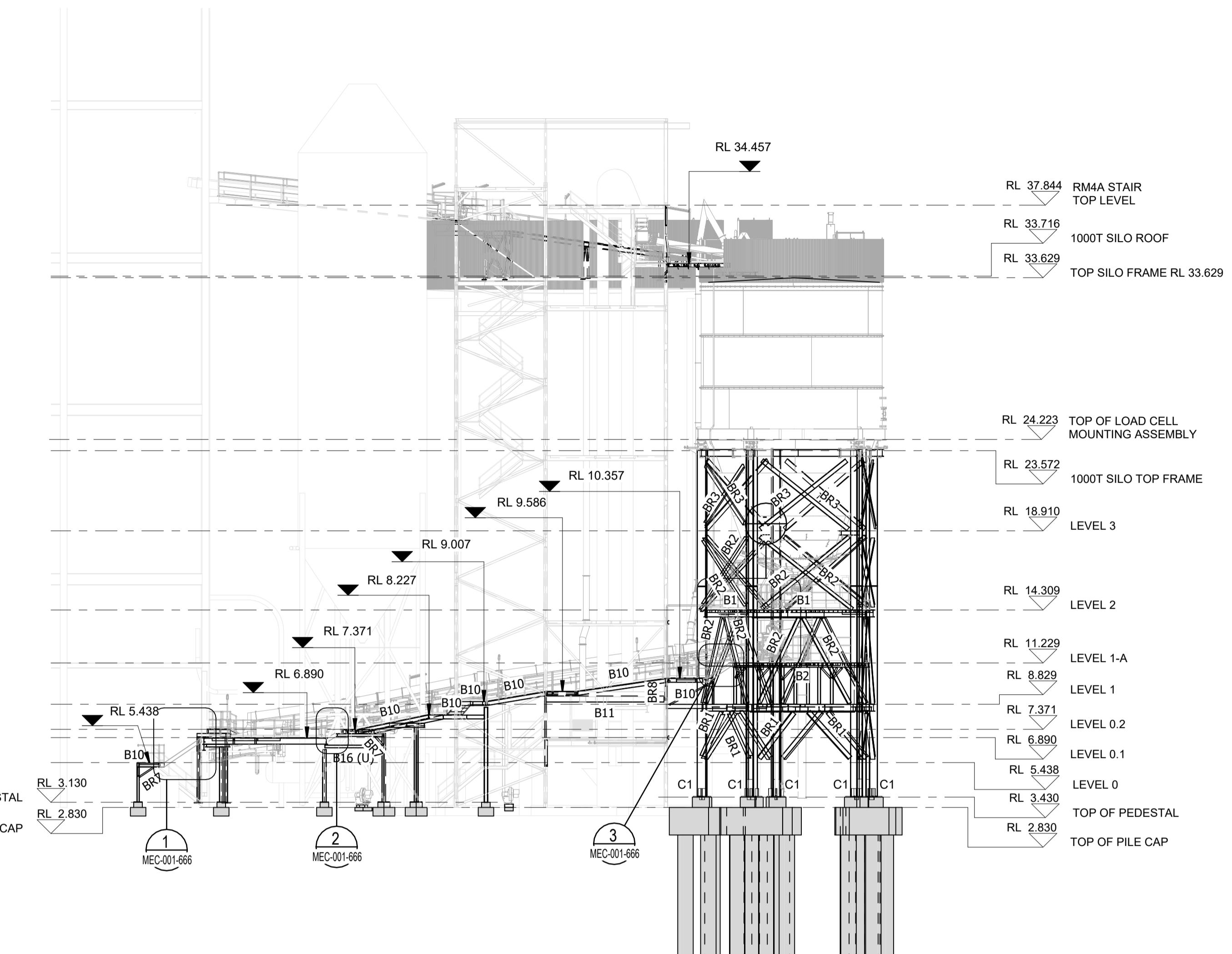
Revision History							A1	Status : ISSUED FOR CLIENT REVIEW	
Rev	Date	DRN	CHK	ENG	PM	Drawn by : BM Date : 01/03/2023 Scale : 2.0 x A3 Sheet Scale = 1 : 50			
D	01/03/2023	ISSUED FOR CLIENT REVIEW	BM	DH	DZ	HV	DO NOT SCALE ALL DIMENSIONS IN MILLIMETRES DRAWINGS UNLESS OTHERWISE STATED OR ASK IF IN DOUBT ASK	Description : ADBRI BIRKENHEAD 1000T RMS SILO UPPER PLATFORM PLAN VIEW	
C	20/01/2023	ISSUED FOR REVIEW	SB	DH	DZ	HV	Tolerances U.D.O. 0 DEG PLACE 1 DEC PLACE 2 DEC PLACE 3 DEC PLACE ALL ANGLES ±0.5° ±0.2° ±0.1° ±0.05°	Customer : McMahon Services Reference : 236-020	
B	16/12/2022	ISSUED FOR REVIEW	BM	DH	DZ	HV		Genius Consulting Pty Ltd, ABN 91 615 110 033 101 Henley Beach Rd, Ph: +61 8 7221 9970 Mile End, SA, 5031, www.ingenia.com.au	
A	11/11/2022	ISSUED FOR REVIEW	AT	DH	DZ	HV		Cust. No. Ref. No. Type Dwg. Series Sheet No. Revision	



A SECTION A
STR-001-101 1 : 100



B SECTION B
STR-001-101 1 : 100



C SECTION C
ELEC-003-401 1 : 200

IMPORTANT NOTE:

REV	DATE	REVISION HISTORY	A1			
			DRN	CHK	ENG	PM
D	01/03/2023	ISSUED FOR CLIENT REVIEW	BM	DH	DZ	HV
C	20/01/2023	ISSUED FOR REVIEW	SB	DH	DZ	HV
B	16/12/2022	ISSUED FOR REVIEW	BM	DH	DZ	HV
A	11/11/2022	ISSUED FOR REVIEW	AT	DH	DZ	HV

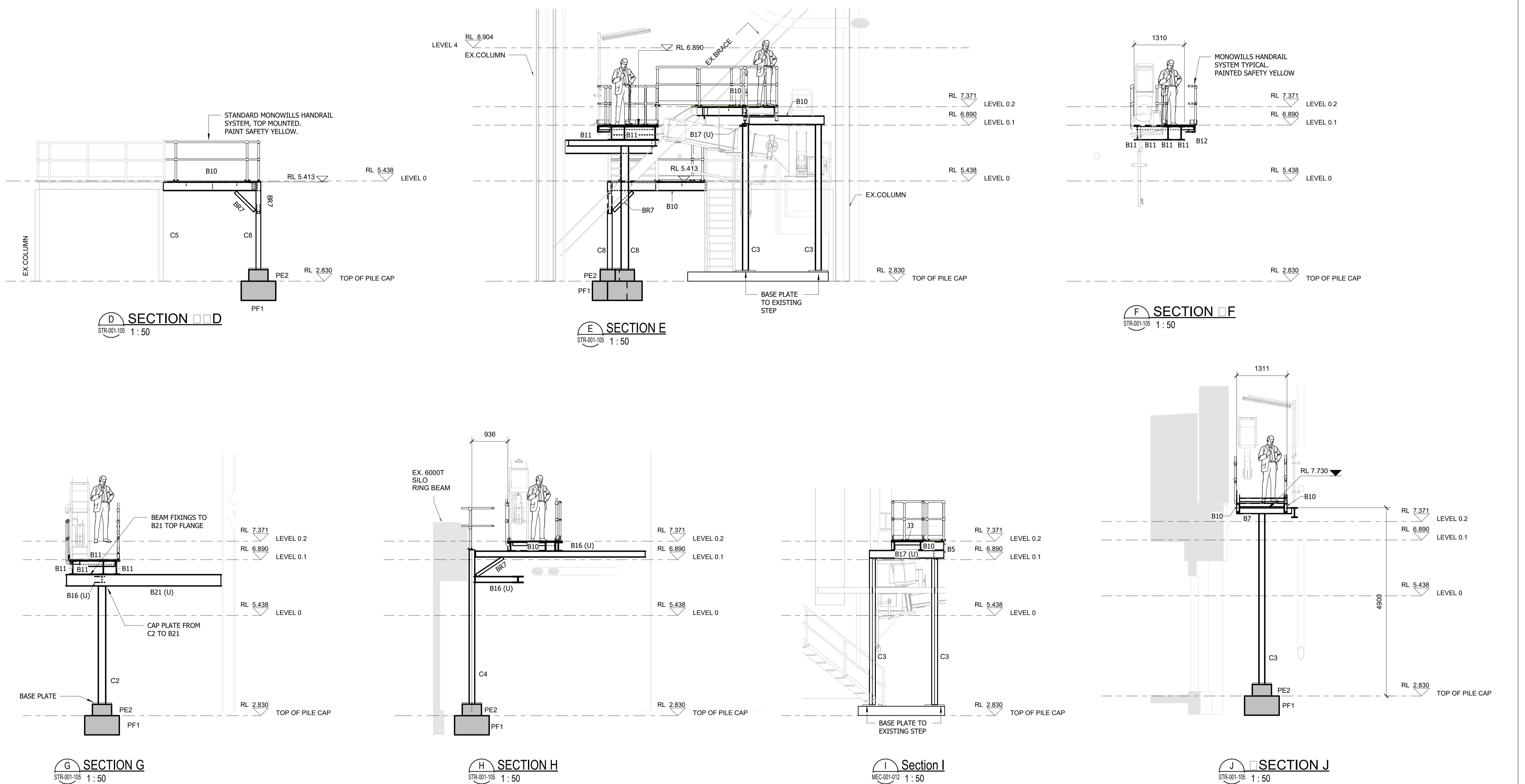
McMAHON
SERVICES

Customer : McMahon Services
Reference : 236-020

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101 Hanley Beach Rd, Ph: +61 8 7221 9970
Mile End, SA, 5031, www.ingenia.com.au

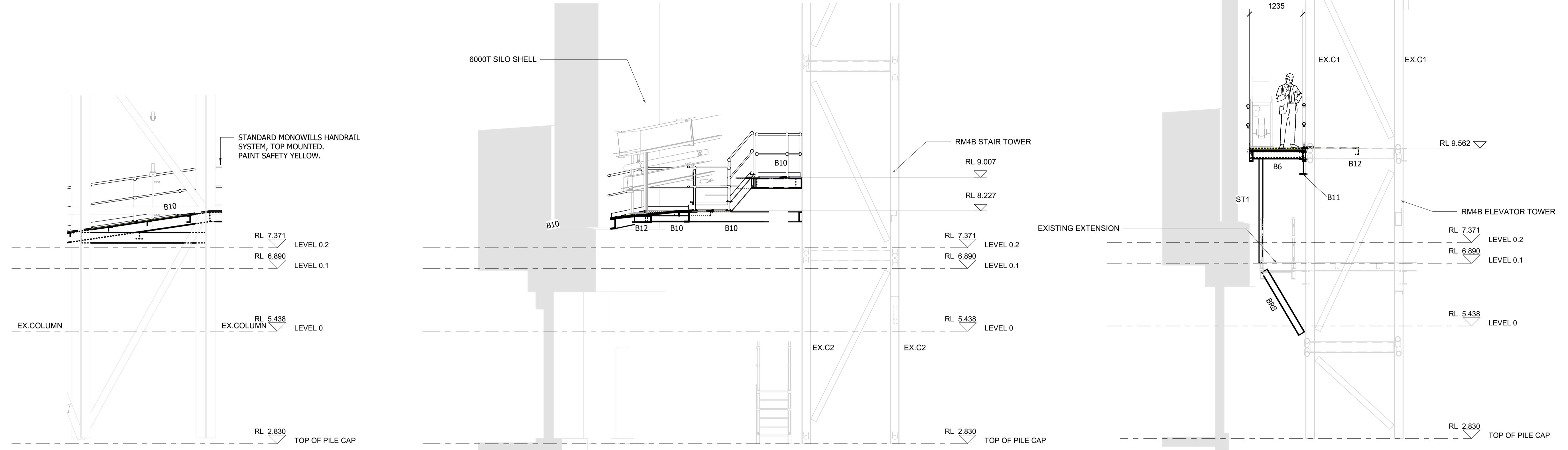
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Description : ADBRI BIRKENHEAD 1000T RMS SILO SECTION VIEW - 1						
Cust. No.	Ref. No.	Type	Dwg. Series	Sheet No.	Revision	
236-020	STR-001-301	D				



IMPORTANT NOTE:

						A1
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C	20/01/2023	ISSUED FOR REVIEW	SB	DH	DZ	HV
B	16/12/2022	ISSUED FOR REVIEW	BM	DH	DZ	HV
A	11/11/2022	ISSUED FOR REVIEW	AT	DH	DZ	HV
REV	DATE	REVISION HISTORY	DRN	CHK	ENG	PM

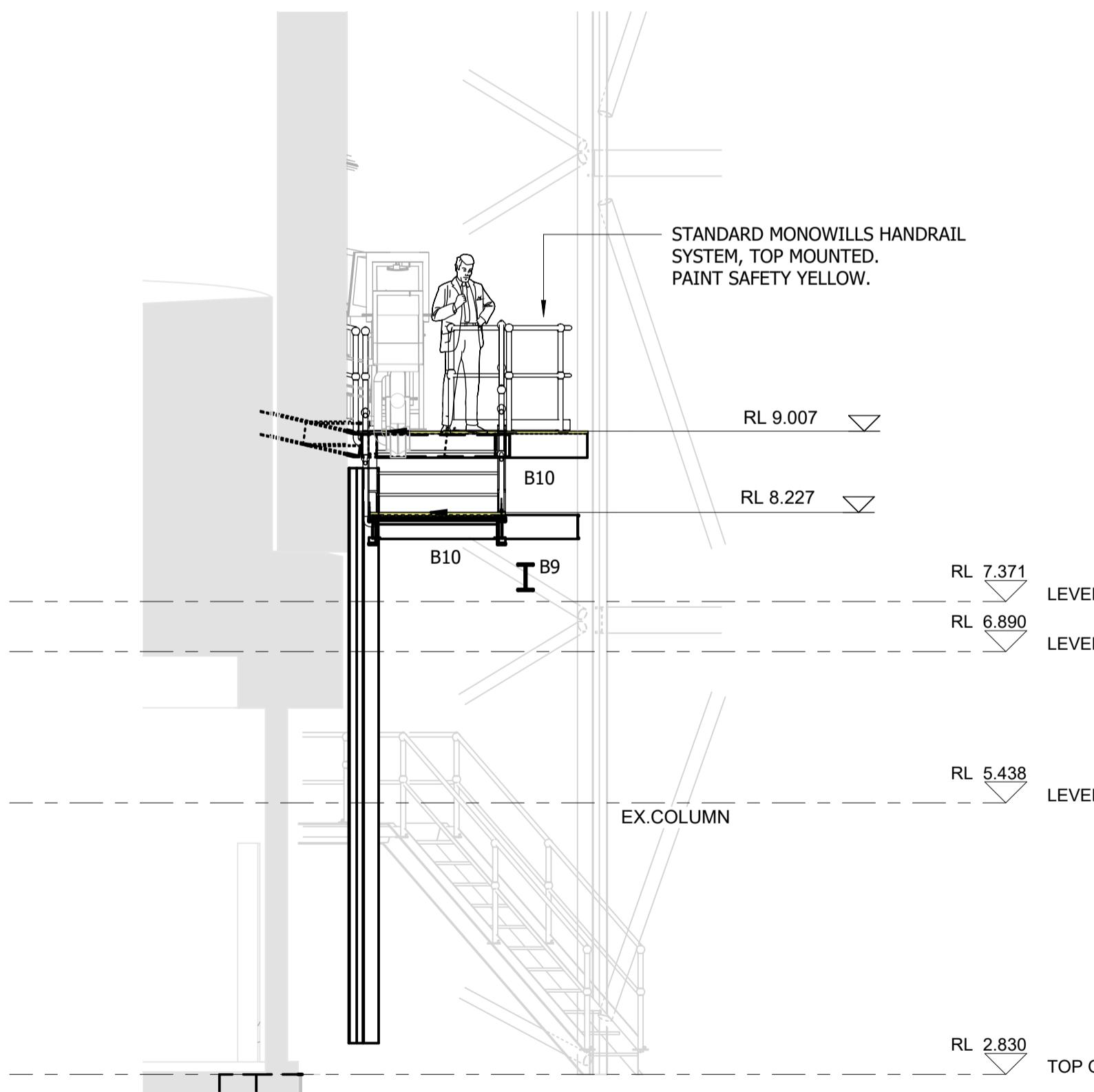
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Description : ADBRI BIRKENHEAD 1000T RMS SILO											
LOWER PLATFORM SECTION VIEWS SHEET 1											
Cust. No.	Ref. No.	Type	Dwg. Series	Sheet No.	Revision						
236-020	STR-001-302					D					



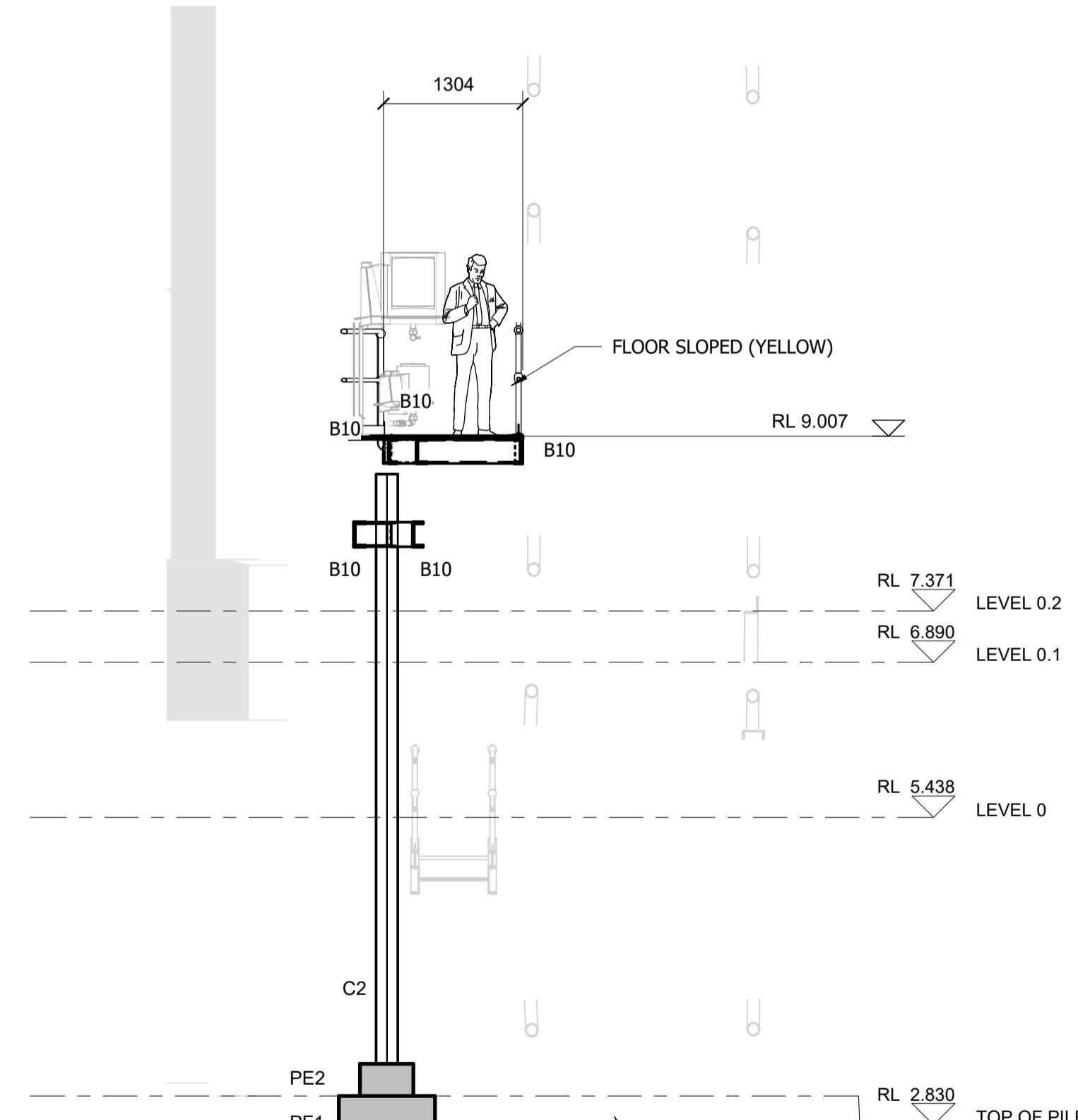
K SECTION K
STR-001-105 1 : 50

M SECTION M
STR-001-105 1 : 50

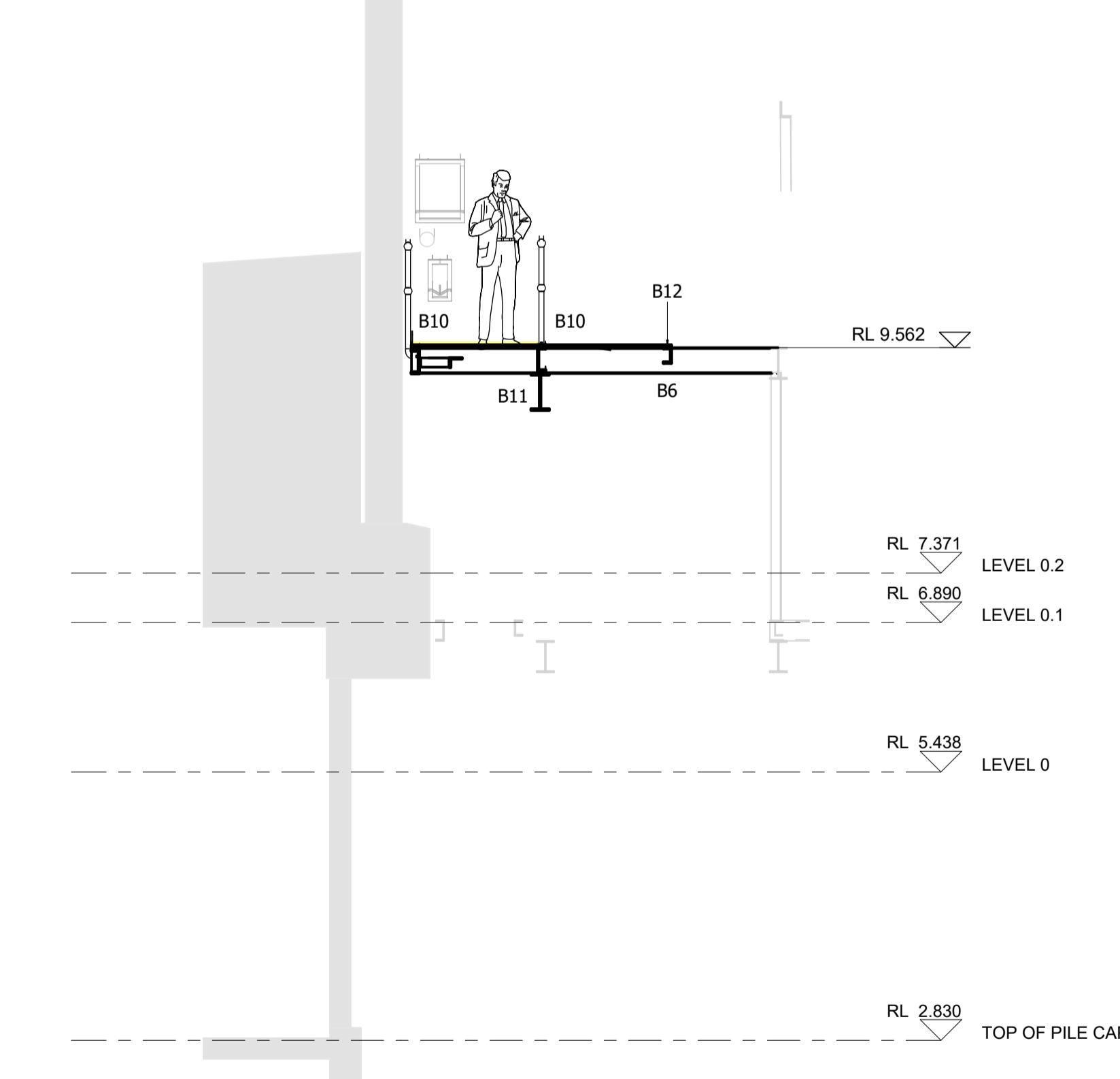
P SECTION P
STR-001-105 1 : 50



L SECTION L
STR-001-105 1 : 50



N SECTION N
STR-001-105 1 : 50



Q SECTION Q
STR-001-105 1 : 50

IMPORTANT NOTE:

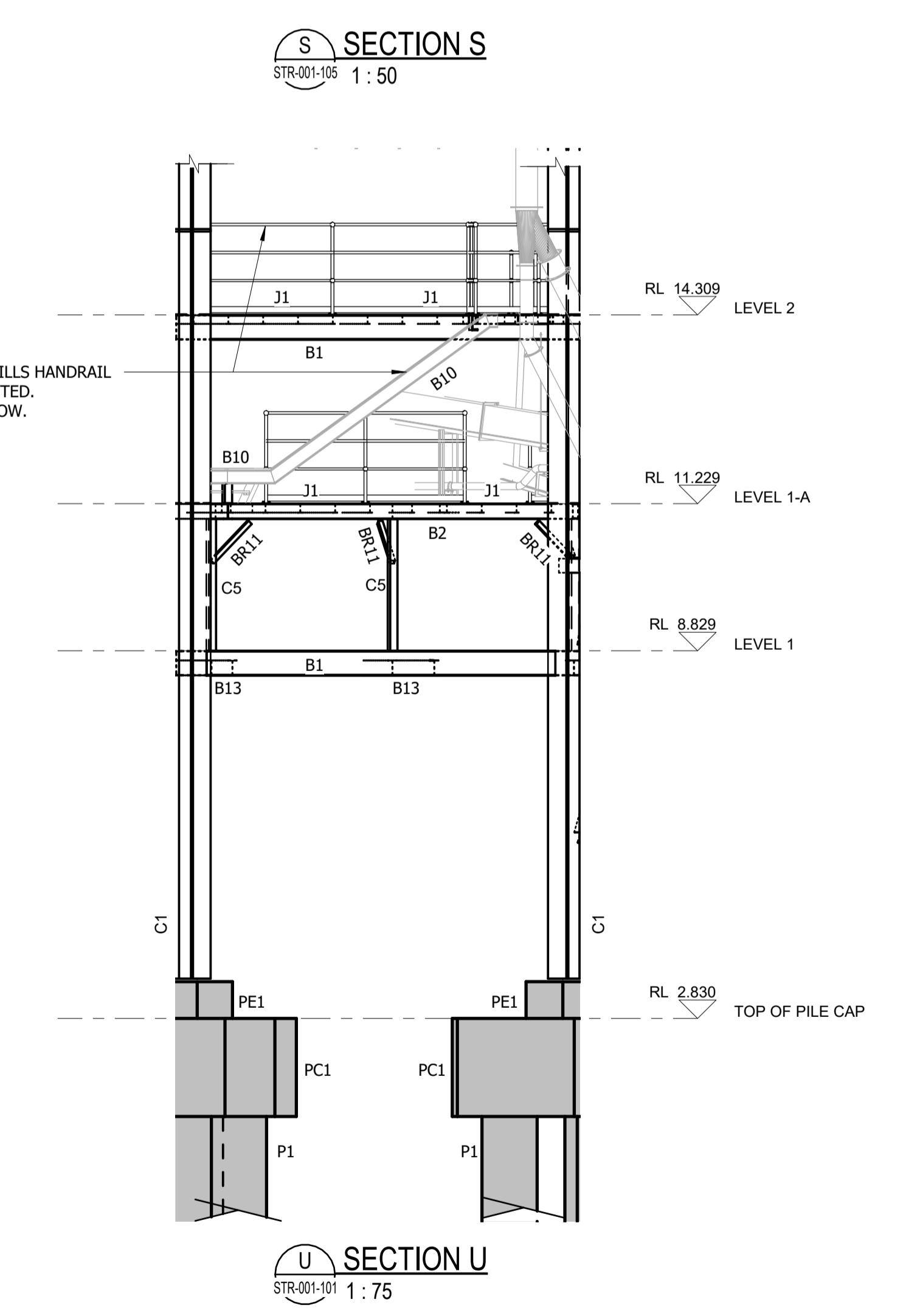
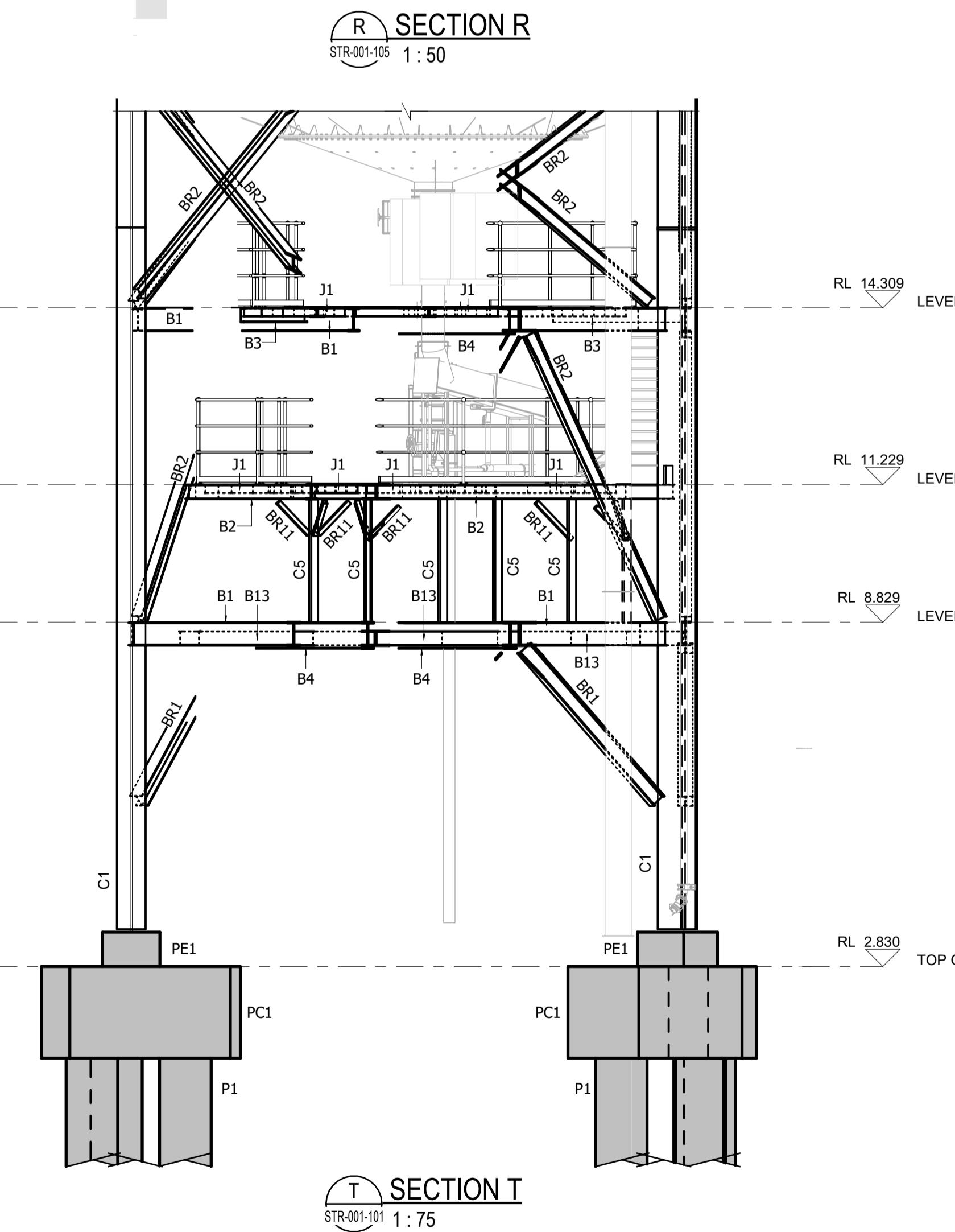
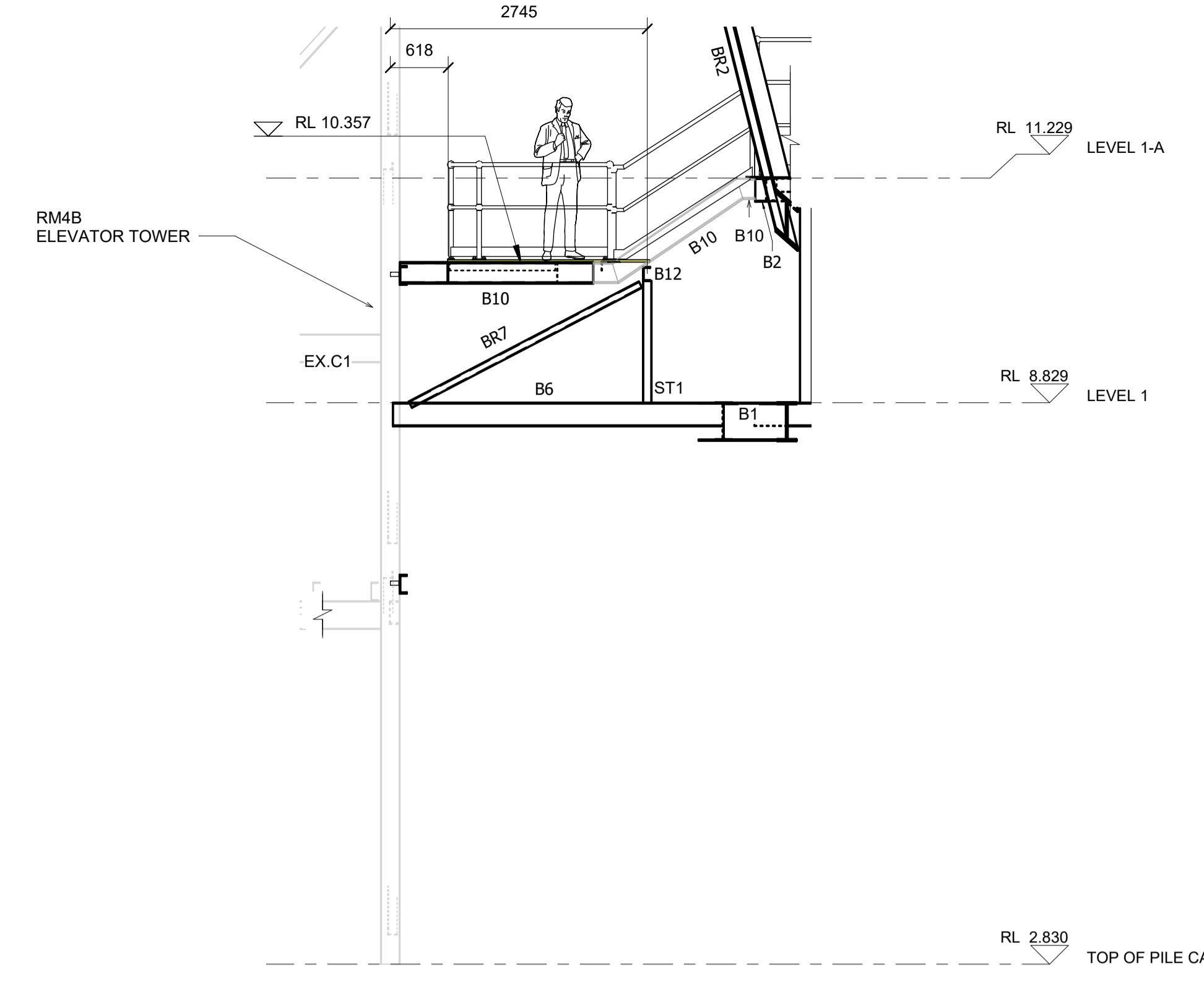
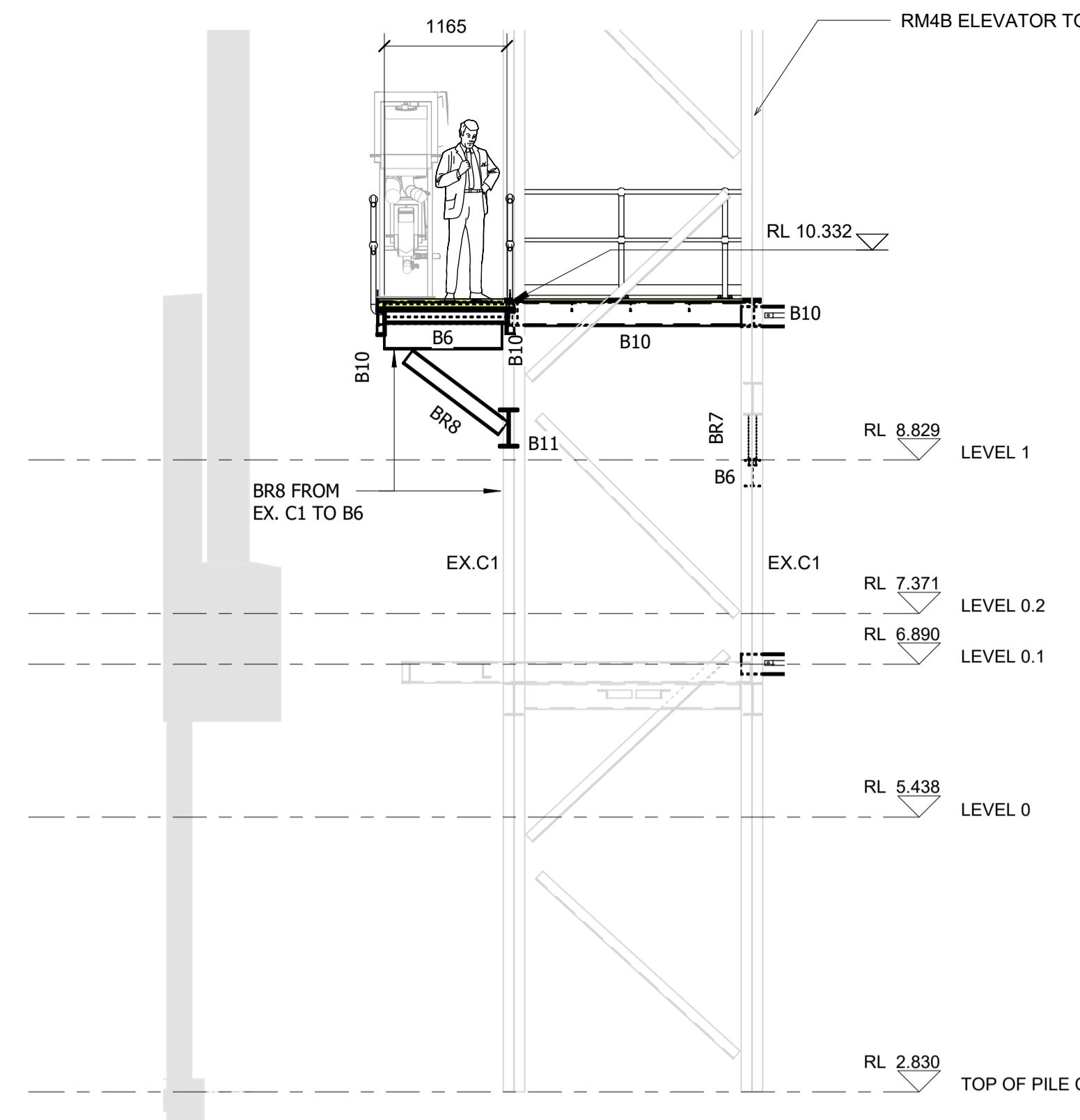
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C	20/01/2023	ISSUED FOR REVIEW	SB	DH	DZ	HV			Description :	ADBRI BIRKENHEAD 1000t RMS SILO
B	16/12/2022	ISSUED FOR REVIEW	BM	DH	DZ	HV	Tolerances U.D.Q. On dimensions: 0 DEP PLACE +0.5 1 DEP PLACE +0.2 2 DEP PLACE +0.1 ALL ANGLES +0.5°		3rd Angle	
A	11/11/2022	ISSUED FOR REVIEW	AT	DH	DZ	HV			Customer : McMahon Services	Genius Consulting Pty Ltd, ABN 91 615 110 033 101 Henley Beach Rd, Ph: +61 8 7221 9970 Mile End, SA, 5031, www.ingenia.com.au
REV	DATE	REVISION HISTORY	DRN	CHK	ENG	PM			Reference : 236-020	Reference : 236-020-STR-001-801 FOR FAN FOOTING DETAILS

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Cust. No.	Ref. No.	Type	Dwg. Series	Sheet No.	Revision
236-020	STR-001-303				D



IMPORTANT NOTE:

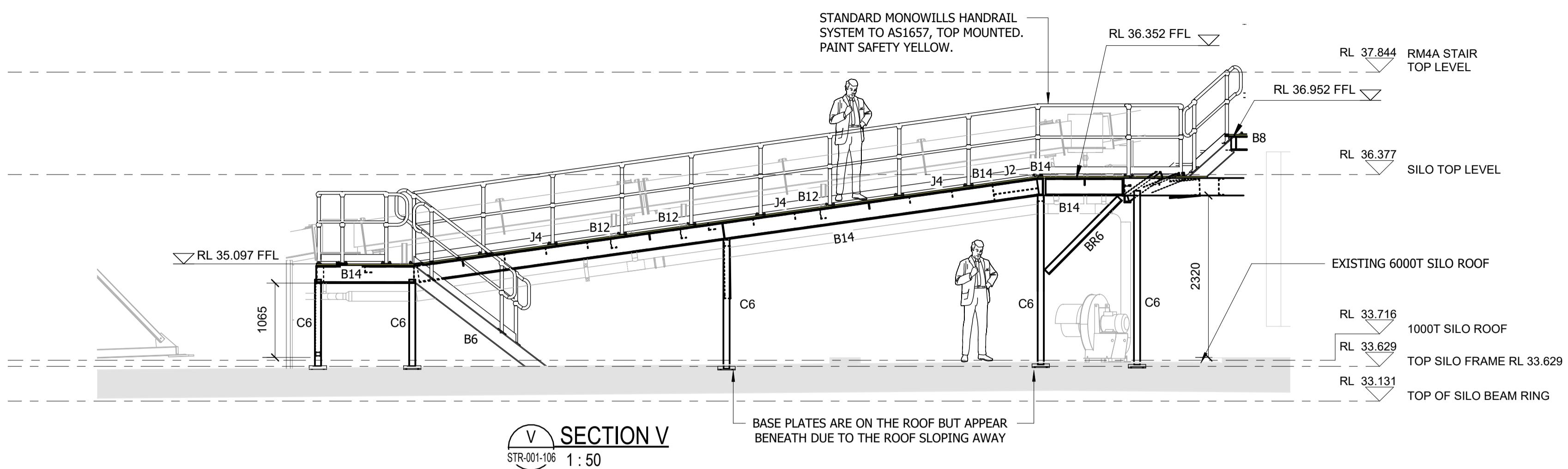
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C	20/01/2023	ISSUED FOR REVIEW	SB	DH	DZ	HV	Description : ADBRI BIRKENHEAD 1000T RMS SILO	
B	16/12/2022	ISSUED FOR REVIEW	BM	DH	DZ	HV	3rd Angle	
A	11/11/2022	ISSUED FOR REVIEW	AT	DH	DZ	HV	Drawing No.Q. 0 DEC PLACE +0.5 1 DEC PLACE +0.2 2 DEC PLACE +0.1 ALL ANGLES +0.5°	
REV	DATE	REVISION HISTORY	DRN	CHK	ENG	PM	Customer : McMahon Services Reference : 236-020	

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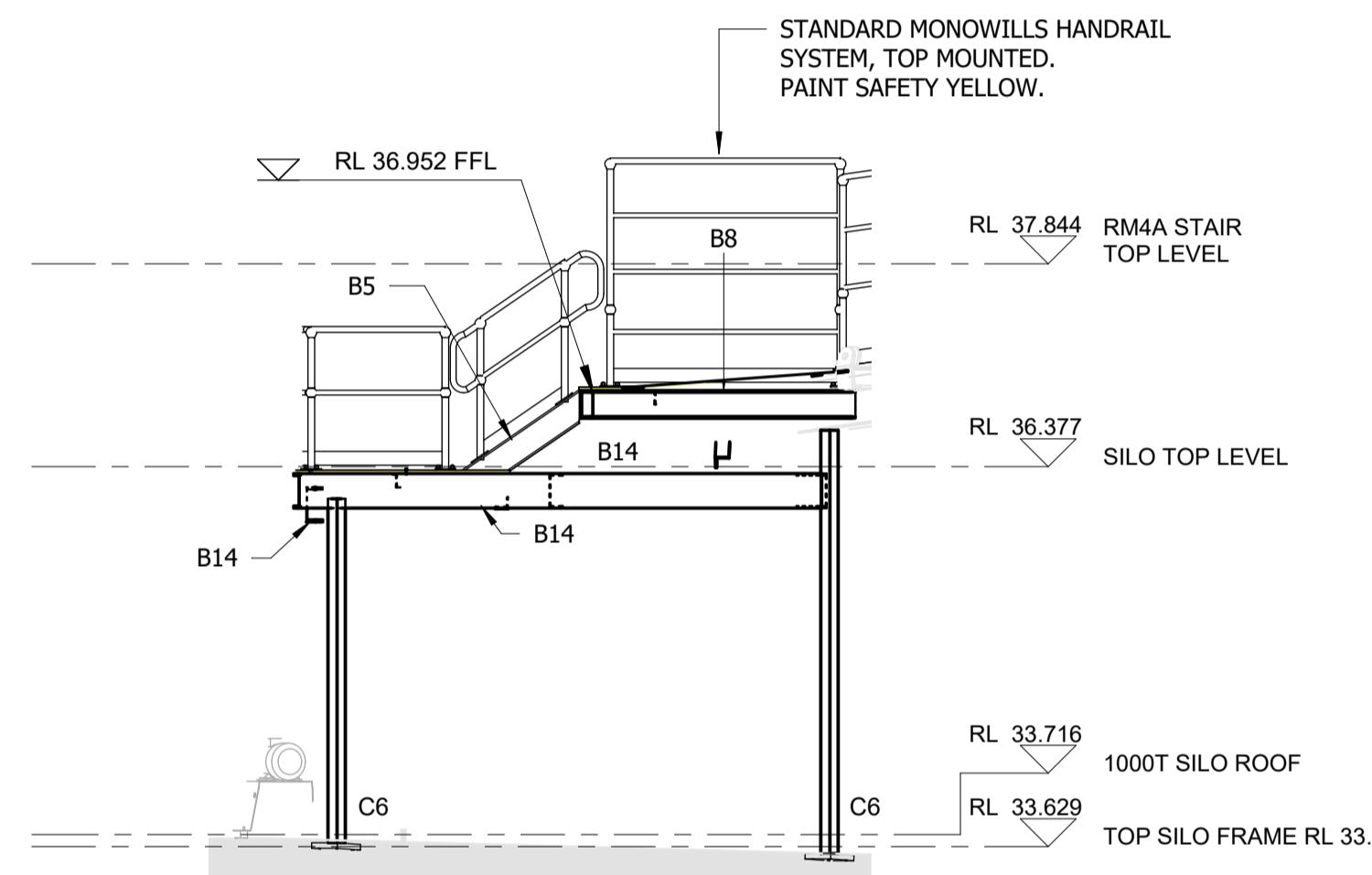
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Mile End, SA, 5031, www.ingenia.com.au

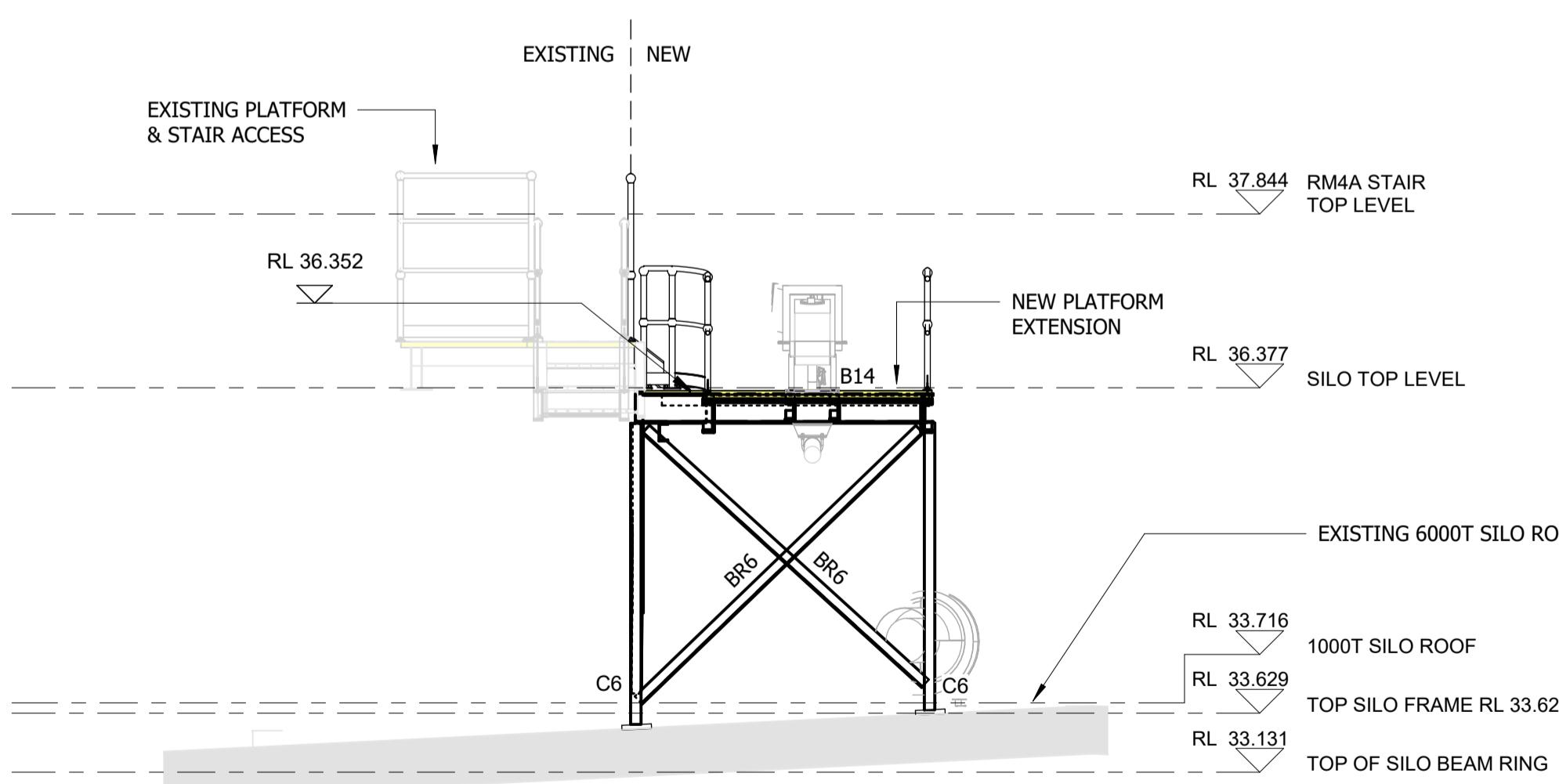
Cust. No.	Ref. No.	Type	Dwg. Series	Sheet No.	Revision
236-020	STR-001-304	D			



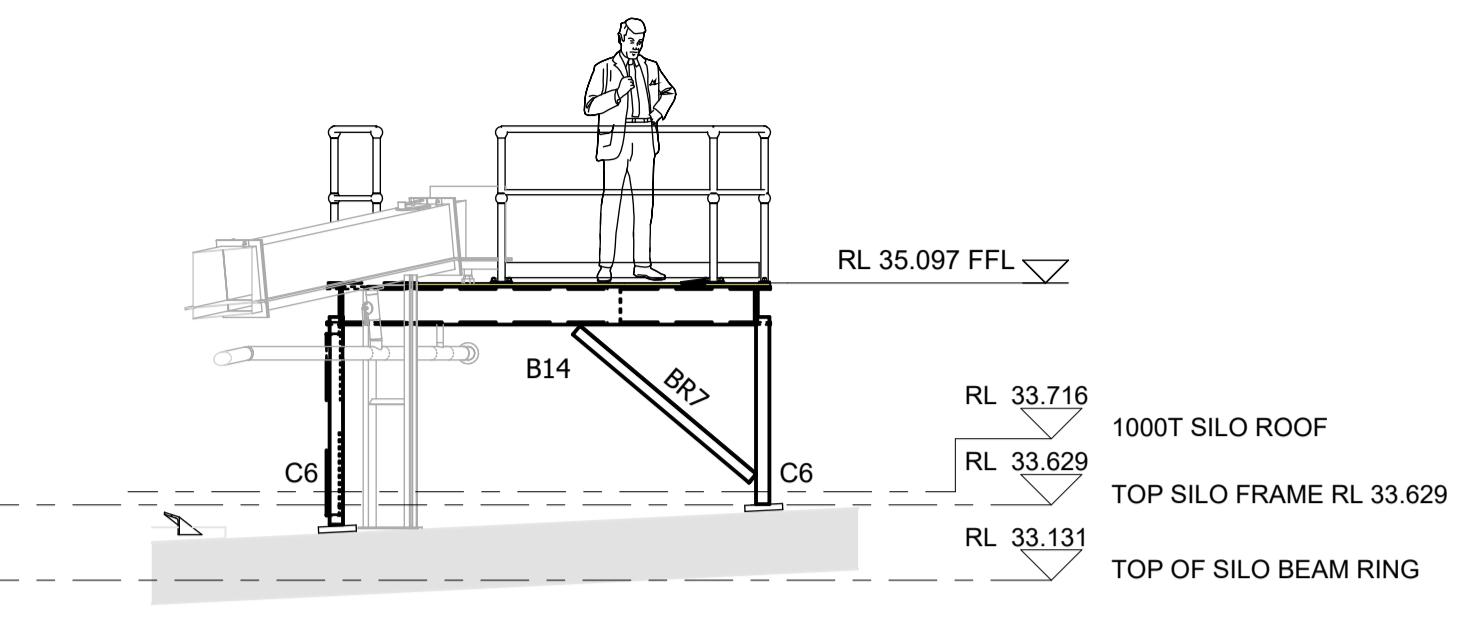
V SECTION V
STR-001-106 1 : 50



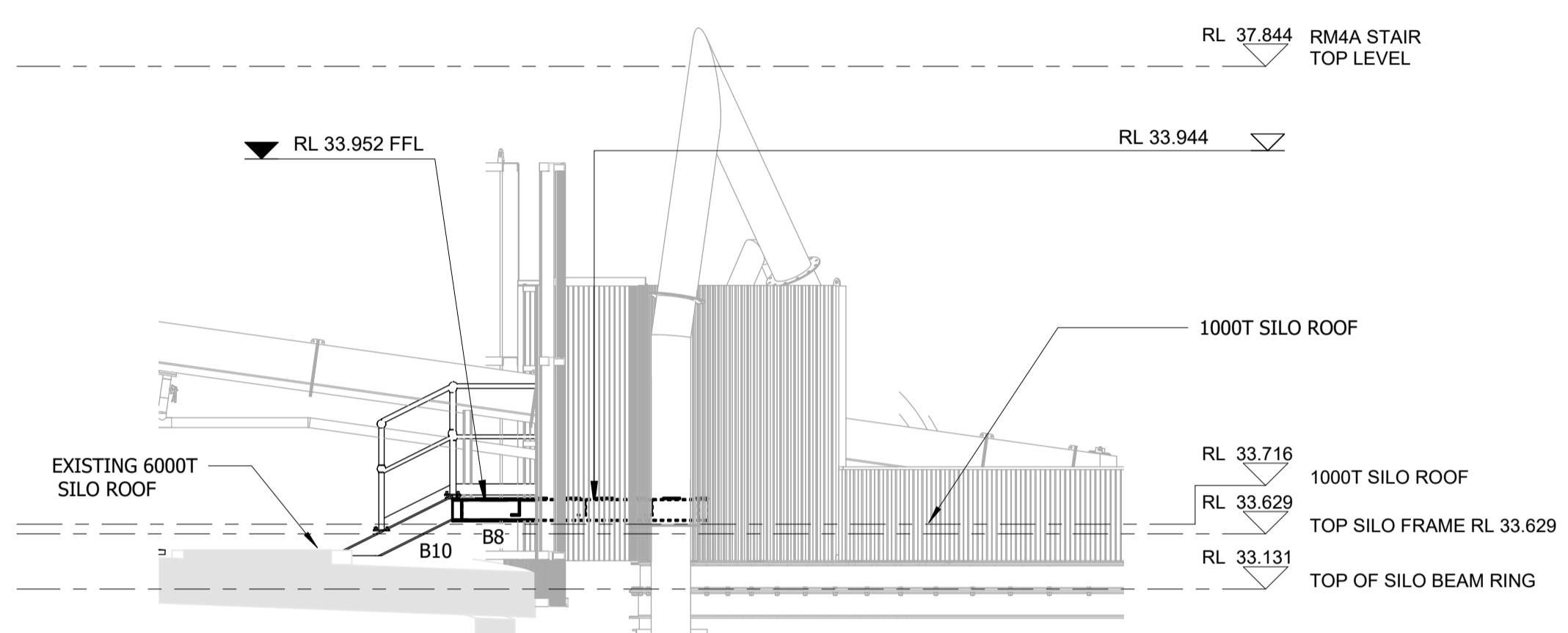
B-B SECTION B-B
STR-001-106 1 : 50



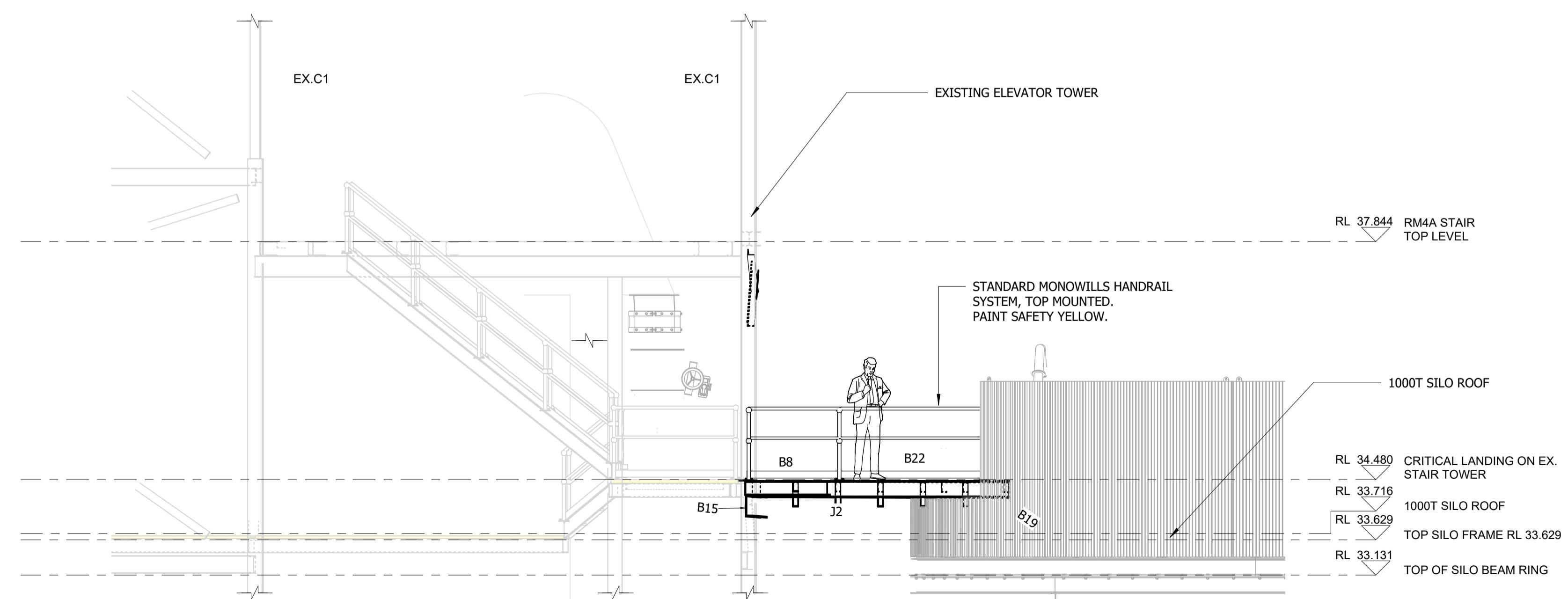
W SECTION W
STR-001-106 1 : 50



Z SECTION Z
STR-001-106 1 : 50



X SECTION X
STR-001-106 1 : 50



 SECTION Y
STR-001-106 1 : 50

IMPORTANT NOTE:

REV	DATE	REVISION HISTORY	DRN	CHK	ENG	
D	01/03/2023	ISSUED FOR CLIENT REVIEW	BM	DH	DZ	
C	20/01/2023	ISSUED FOR REVIEW	SB	DH	DZ	
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A	11/11/2022	ISSUED FOR REVIEW	AT	DH	DZ	

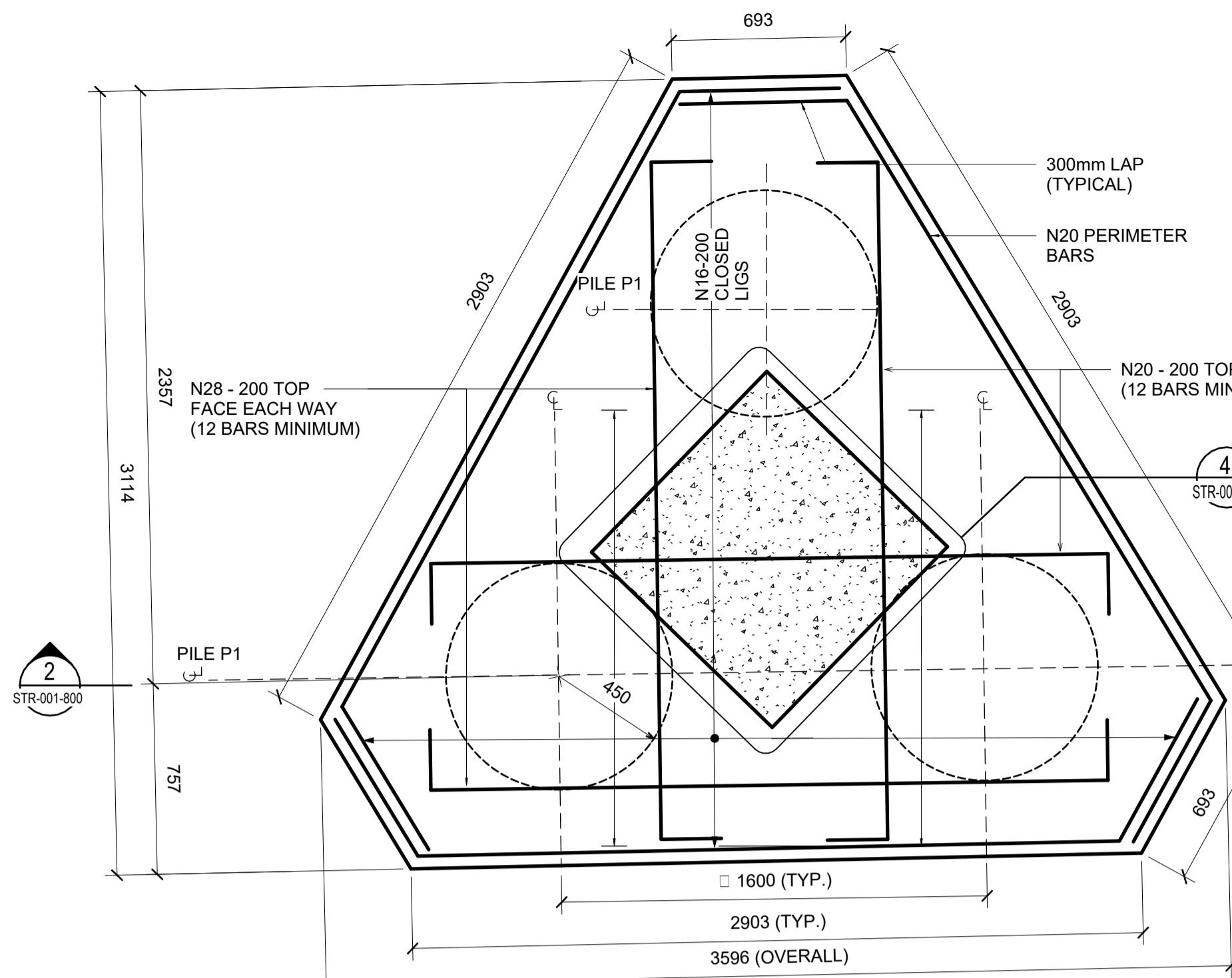
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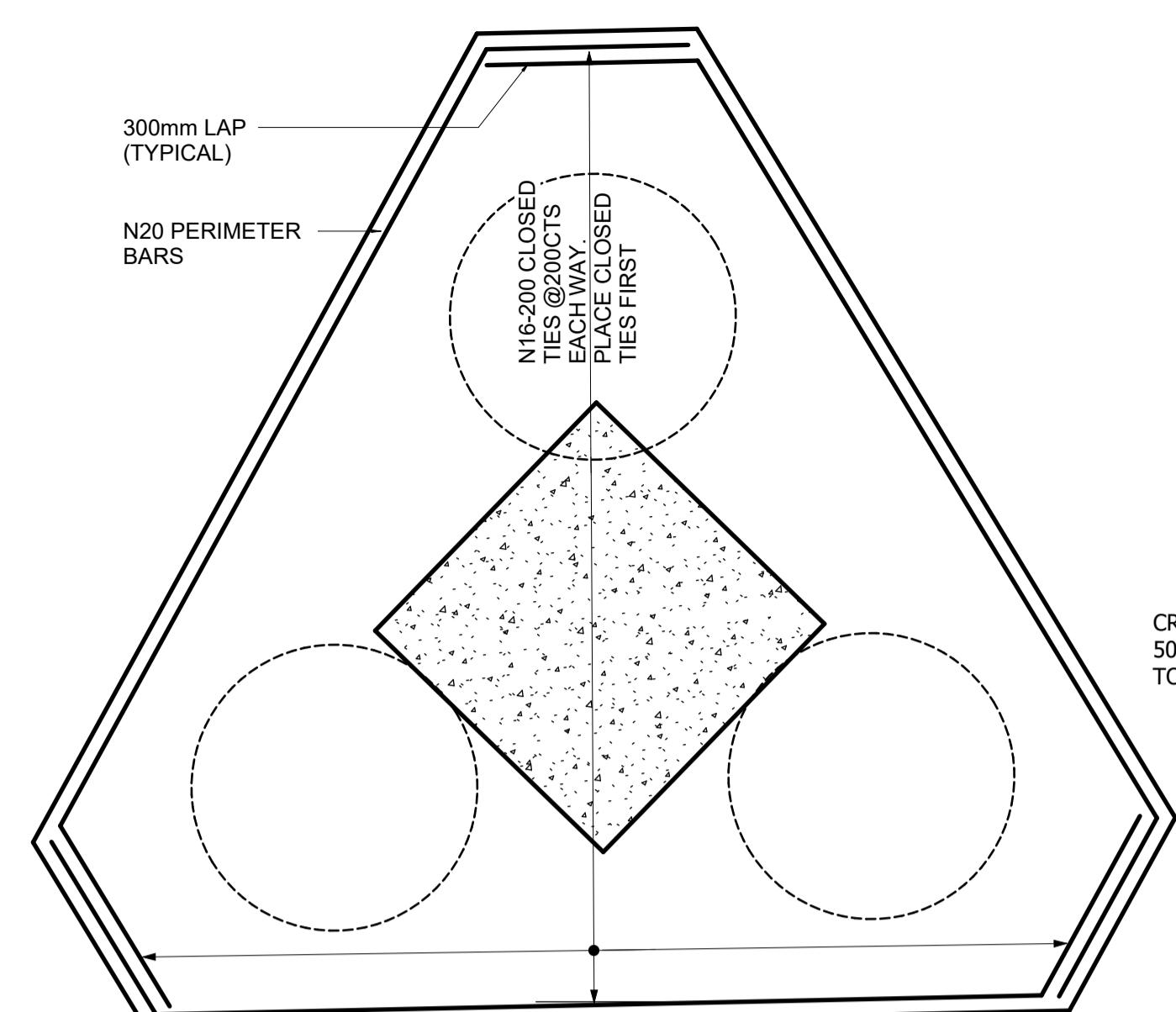
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ISSUED FOR CLIENT REVIEW

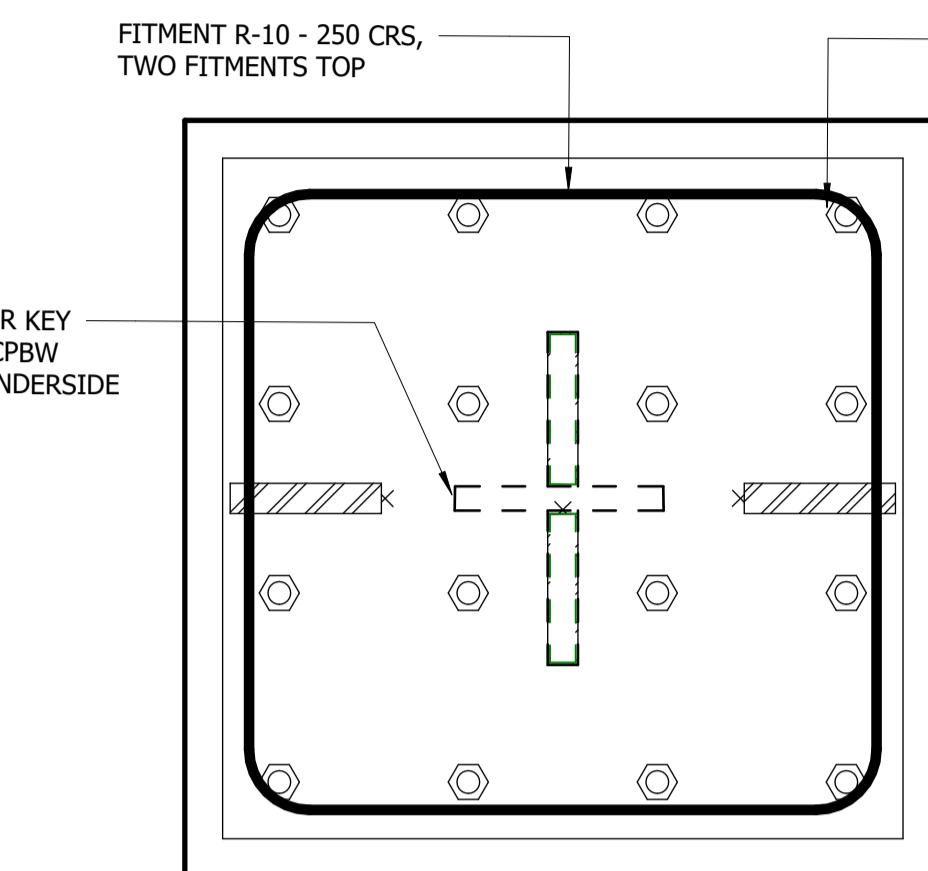
BM	Date : 01/03/2023	A3 Scale = 2.0 x	A1 Sheet Scale = 1 :	50	
on :	ADBRI BIRKENHEAD 1000T RMS SILO			 3rd Angle	
UPPER PLATFORM SECTION VIEWS				A1	
No.	Ref. No.	Type	Dwg. Series	Sheet No.	Revision
	36-020		STR-001-305		D



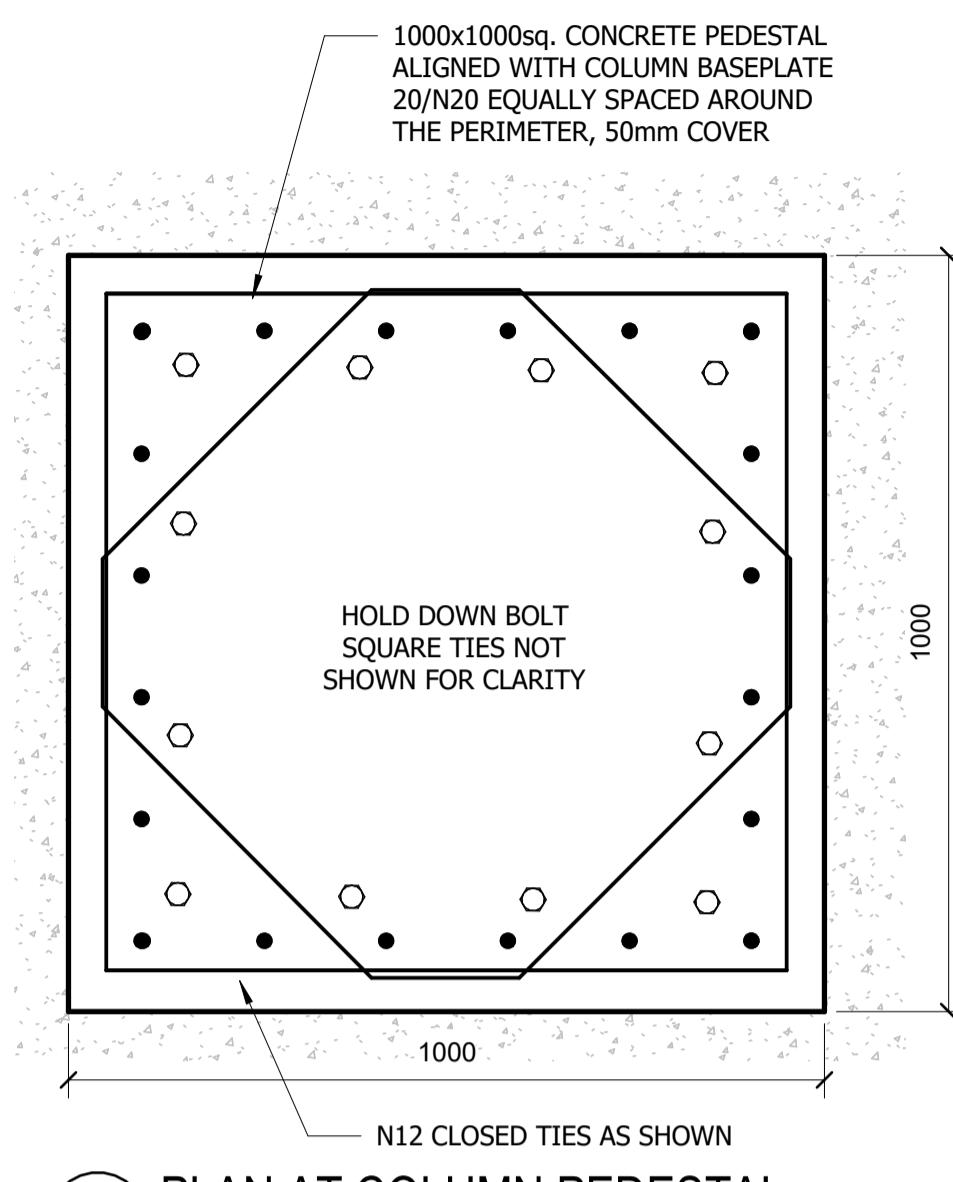
1 PILE CAP REINFORCEMENT (BOTTOM FACE)
STR-001-800 1 : 20



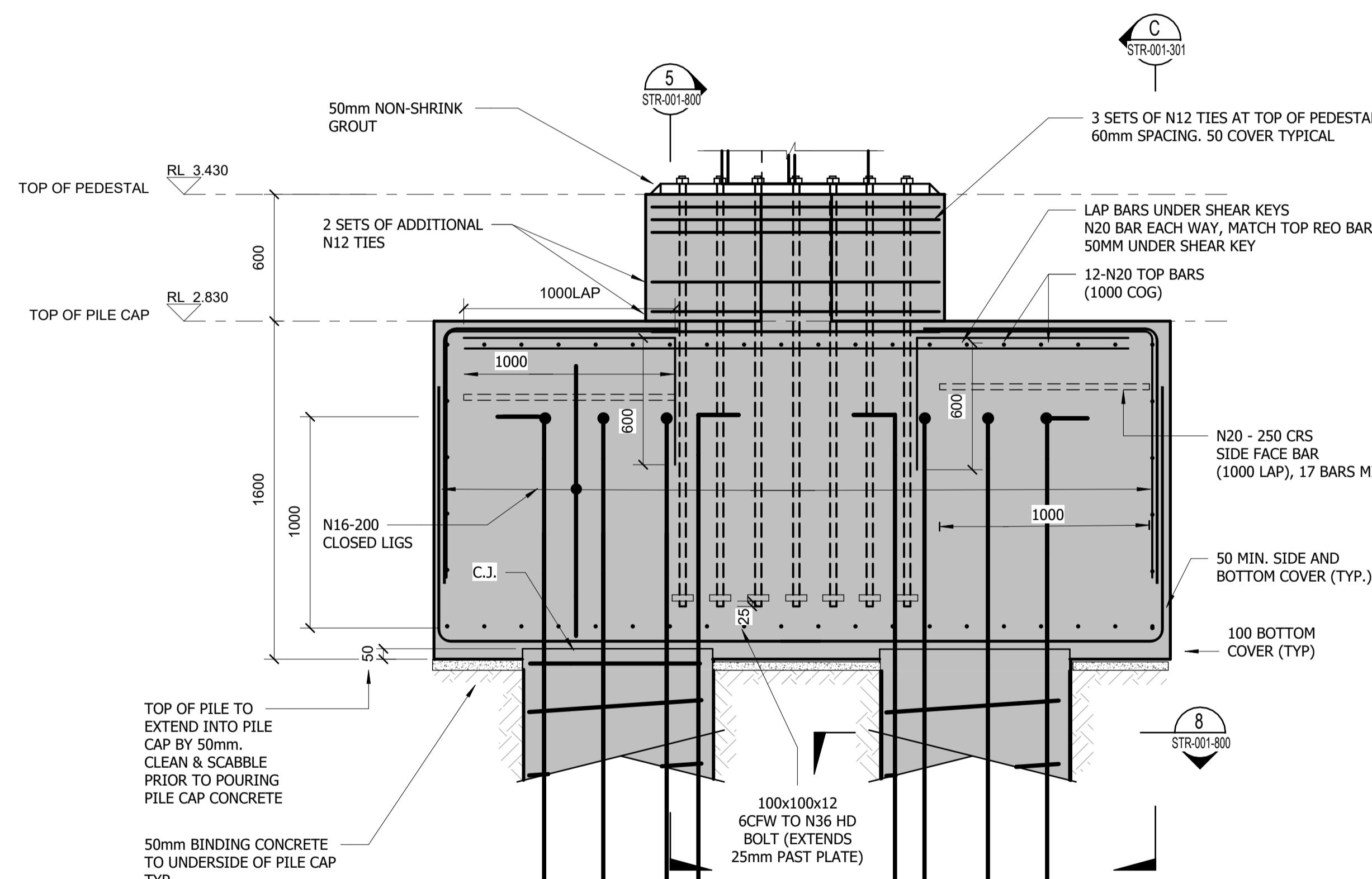
2 PILE CAP REINFORCEMENT (CLOSED TIE)
STR-001-101 1 : 20



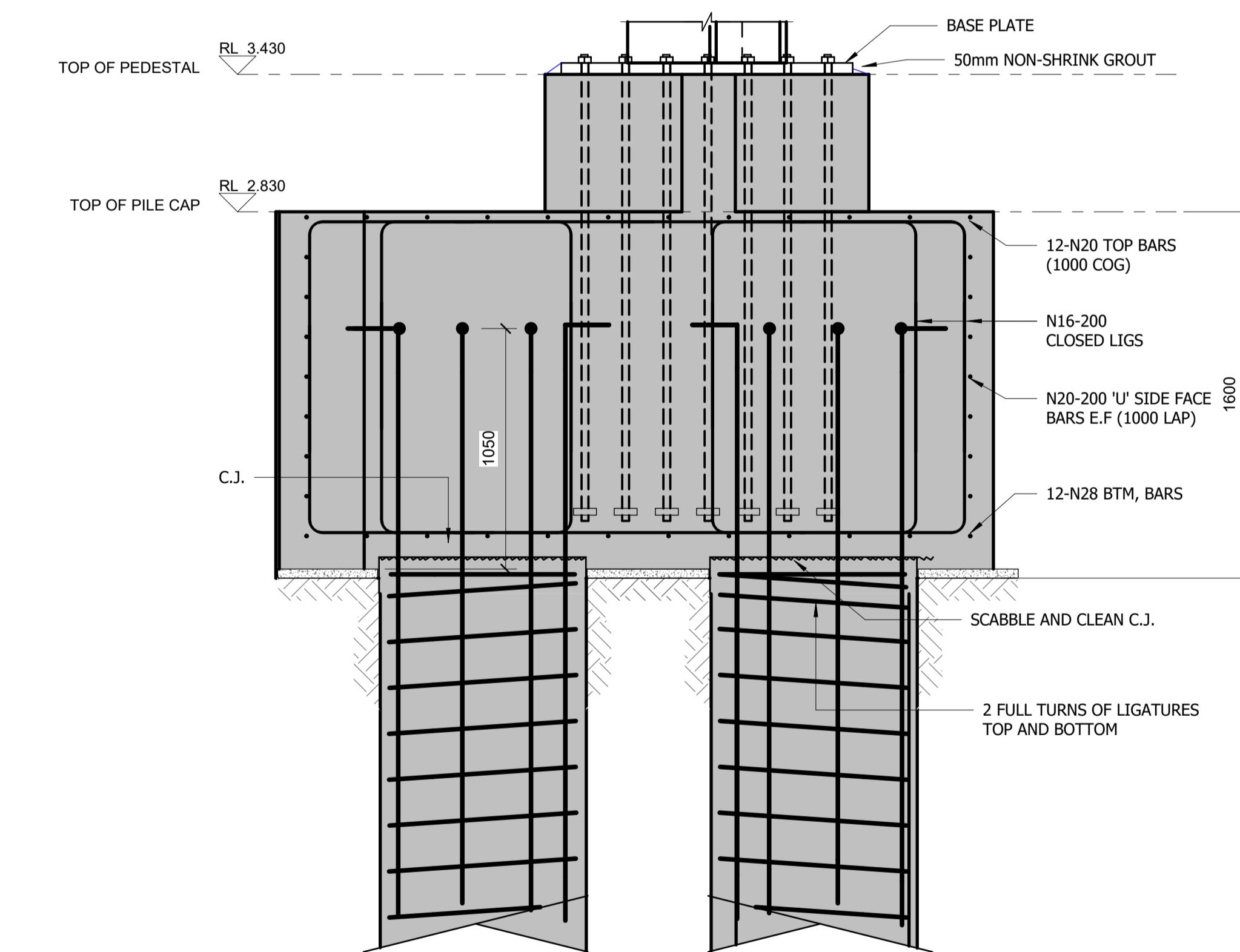
3 C1 HOLD DOWN BOLT DETAIL
STR-001-101 1 : 10



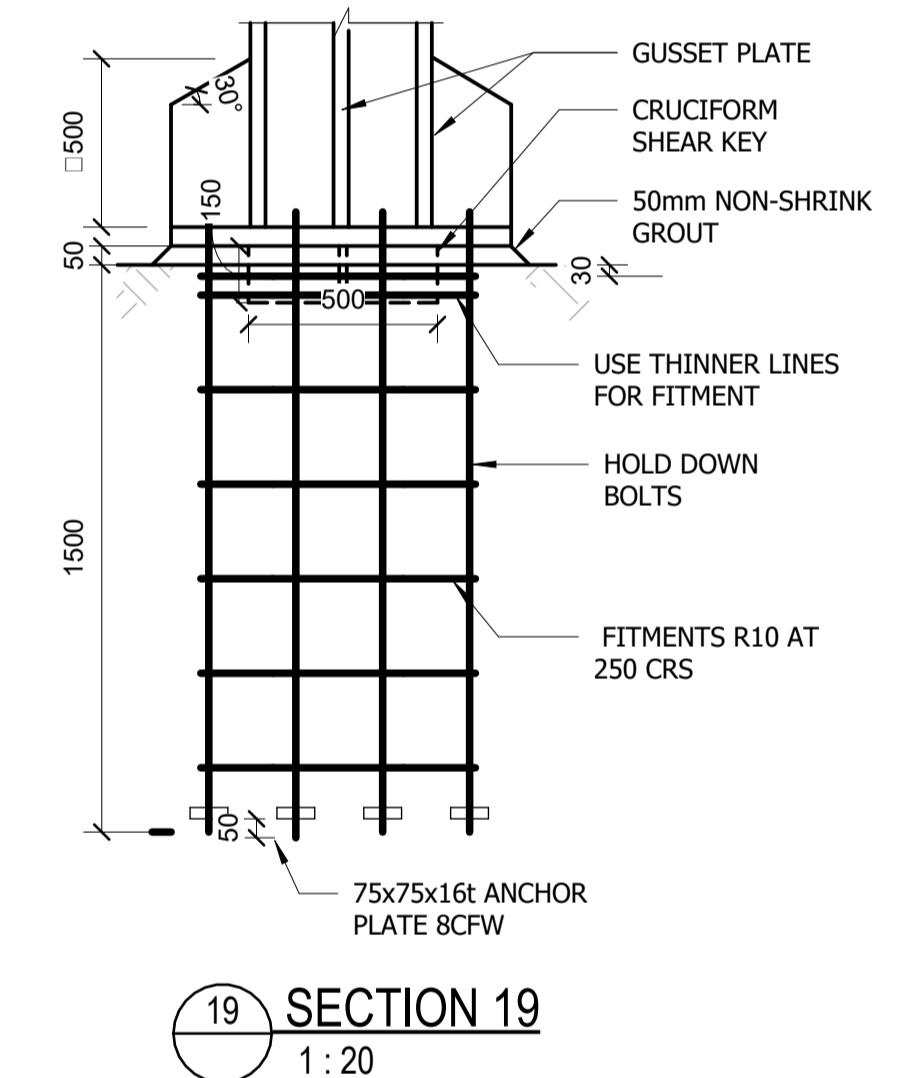
4 PLAN AT COLUMN PEDESTAL
STR-001-800 1 : 10



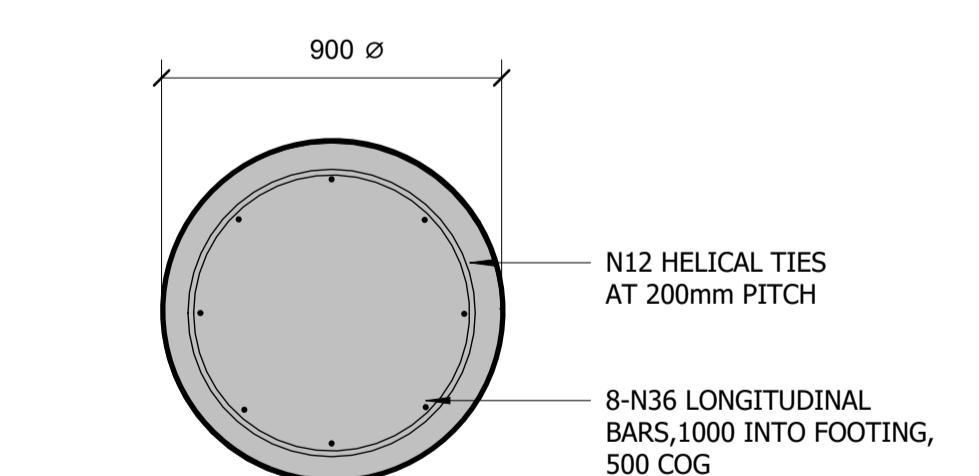
5 SECTION 02
STR-001-800 1 : 20



5 SECTION 5
STR-001-800 1 : 20



6 SECTION 19
STR-001-800 1 : 20



7 PROPOSED PILE DETAIL
STR-001-800 1 : 20

IMPORTANT NOTE:

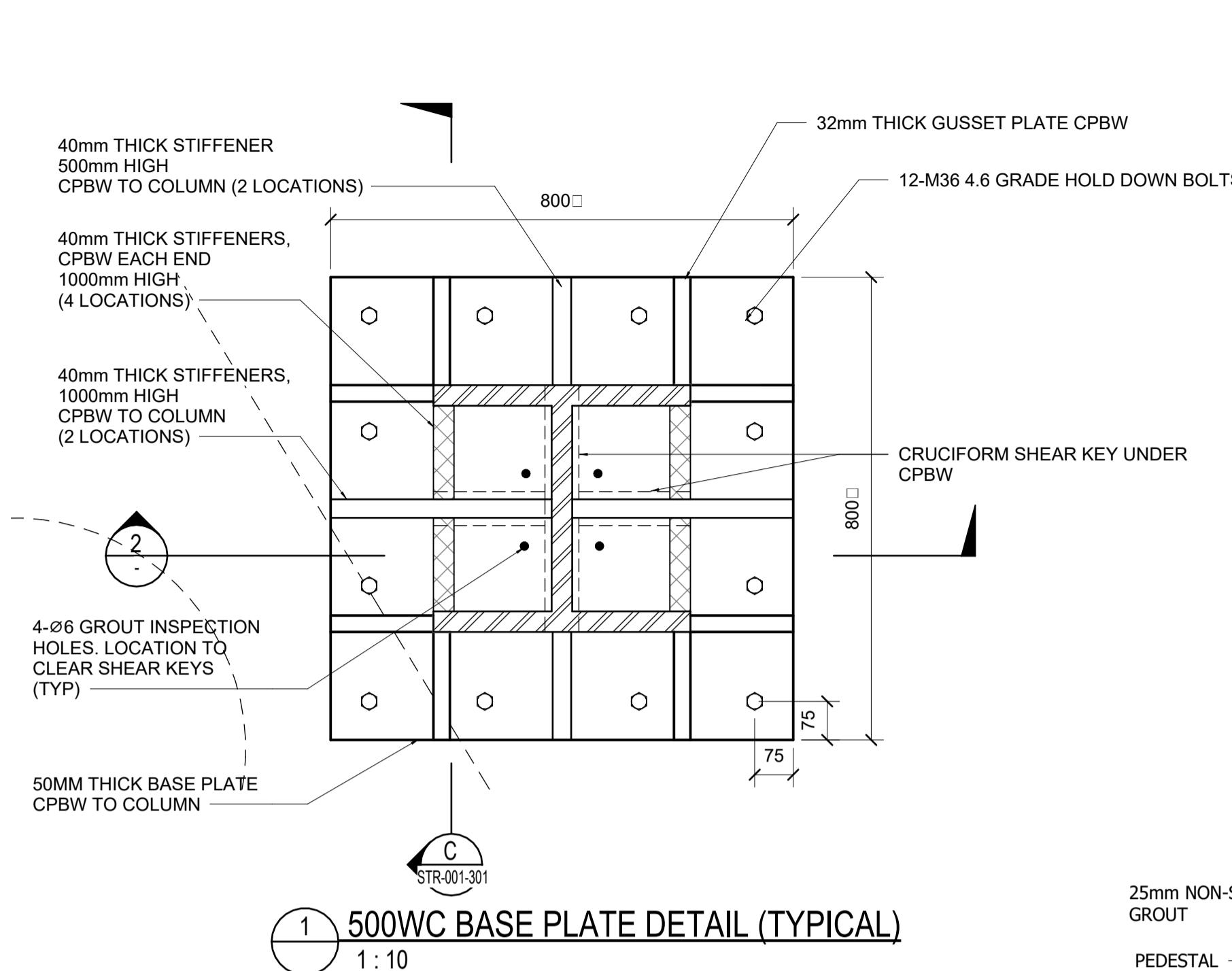
A1						Status : ISSUED FOR CLIENT REVIEW	
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C	20/01/2023	ISSUED FOR REVIEW	SB	DH	DZ	HV	DO NOT SCALE ALL DIMENSIONS IN MILLIMETRES DRAWINGS UNLESS OTHERWISE STATED IF IN DOUBT ASK Customer : McMahon Services Reference : 236-020
B	16/12/2022	ISSUED FOR REVIEW	BM	DH	DZ	HV	Tolerances U.G. On dimensions 0 DEG PLACE ±0.5 1 DEG PLACE ±0.2 2 DEG PLACE ±0.1 ALL ANGLES ±0.5°
A	11/11/2022	ISSUED FOR REVIEW	AT	DH	DZ	HV	
REV	DATE	REVISION HISTORY	DRN	CHK	ENG	PM	

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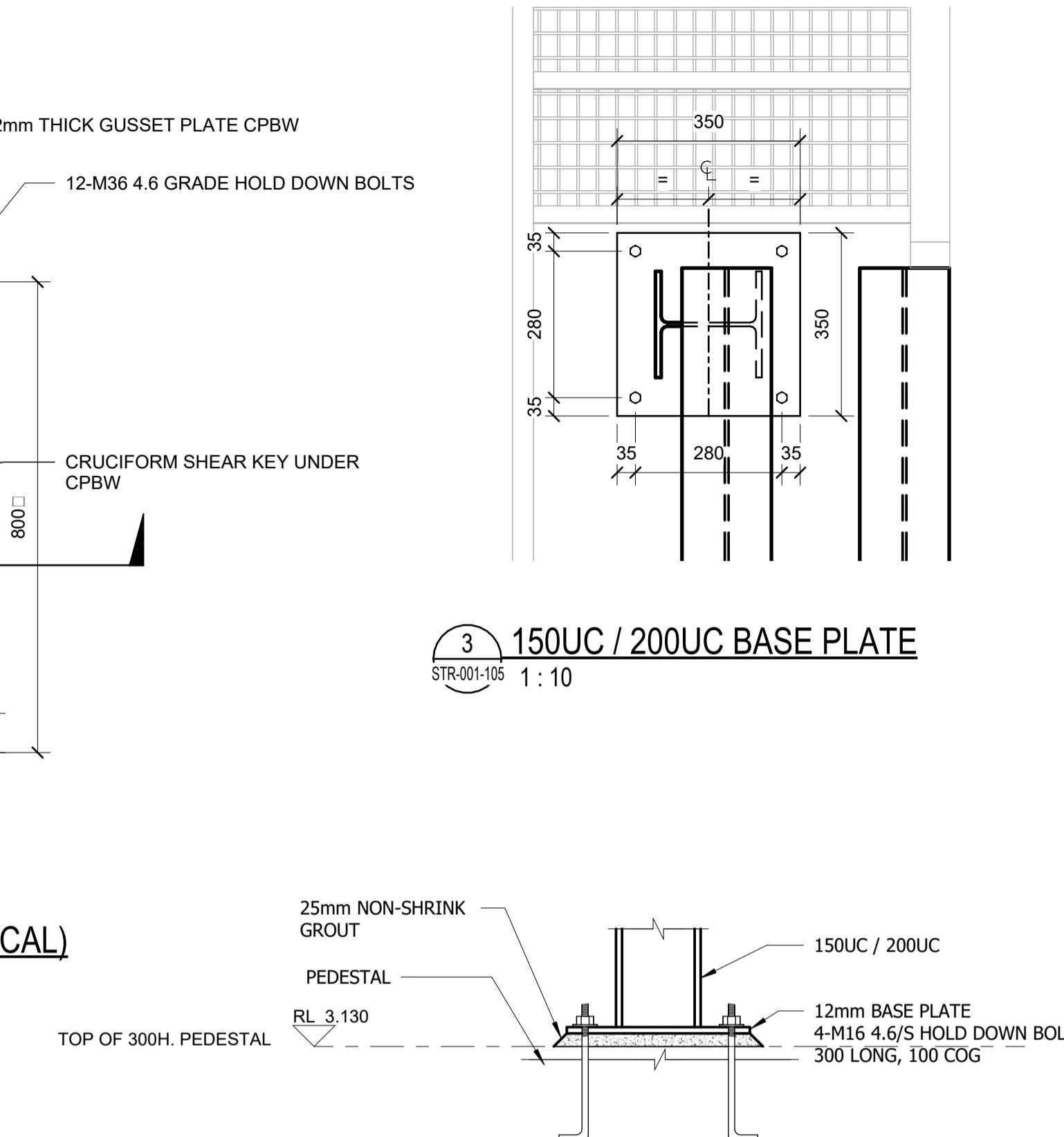
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Drawn : BM	Date : 01/03/2023	A3 Scale = 2.0 x	A1 Sheet Scale = 1 :	10 / 20
DESCRIPTION : ADBRI BIRKENHEAD 1000T RMS SILO PILE CAP & FOOTING DETAILS				
Cust. No.	Ref. No.	Type	Dwg. Series	Sheet No.
				Revision
236-020	STR-001-800	D		

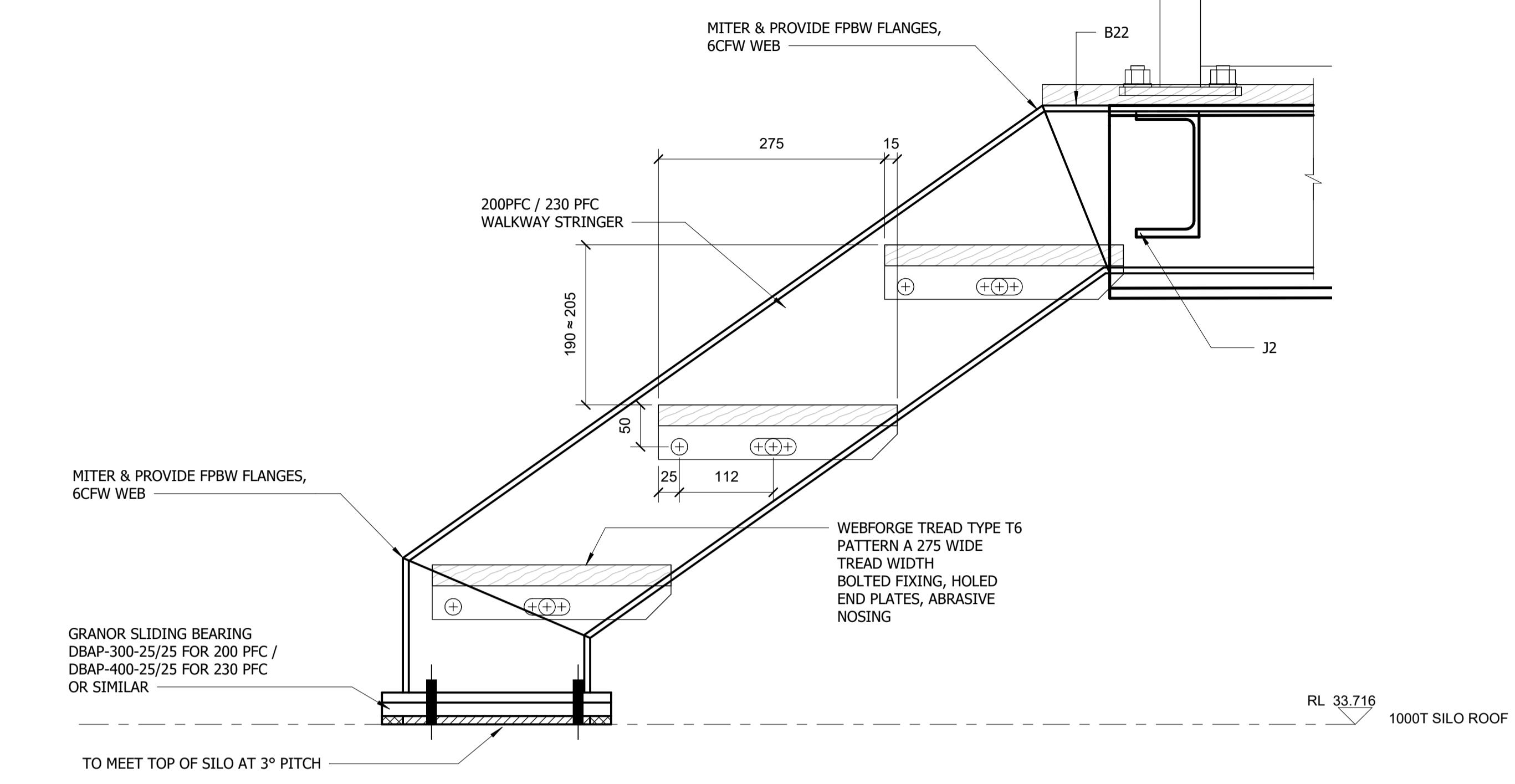


NOTE: ALL PLATING FOR C1 BASE PLATE TO BE GRADE 300

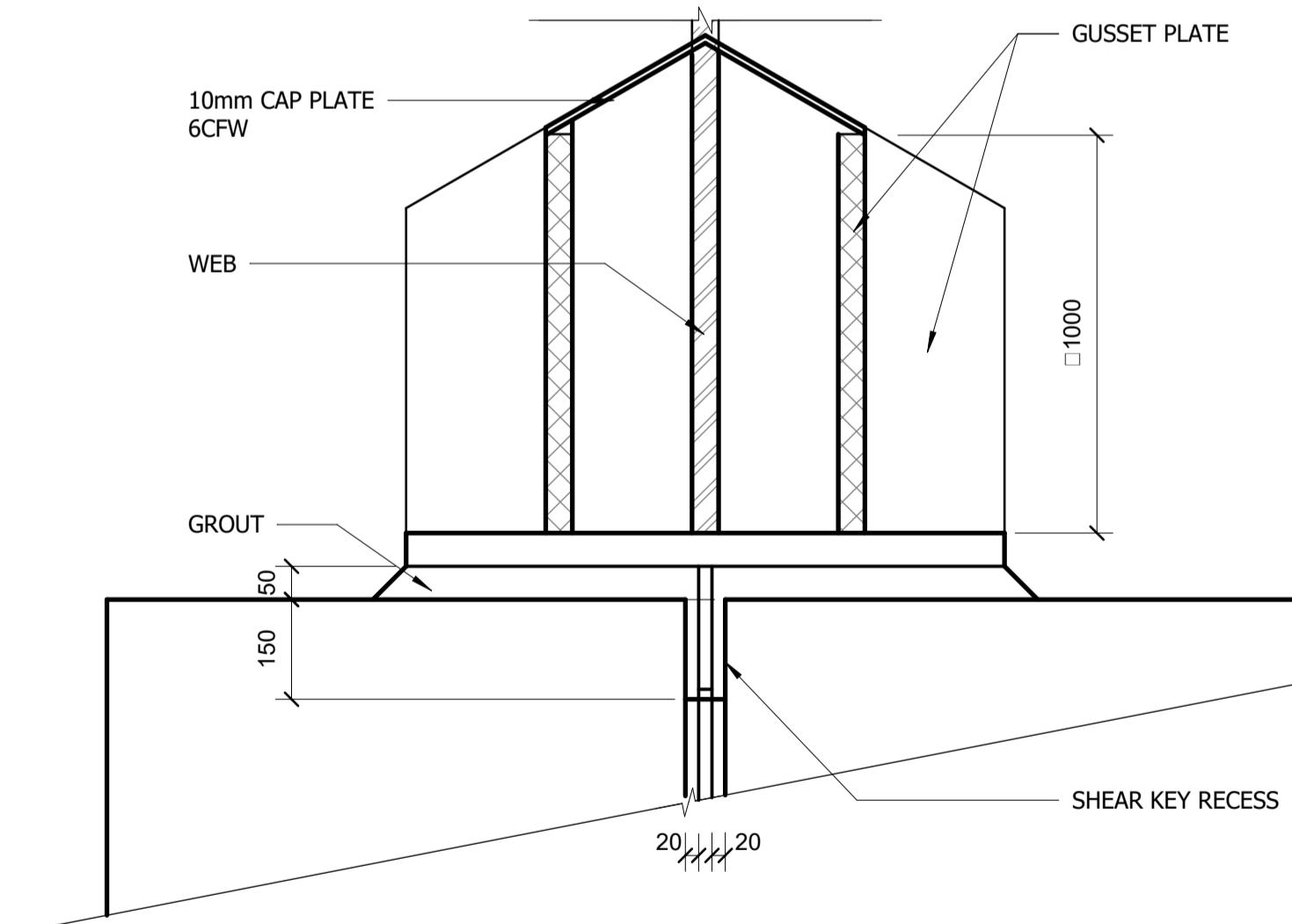
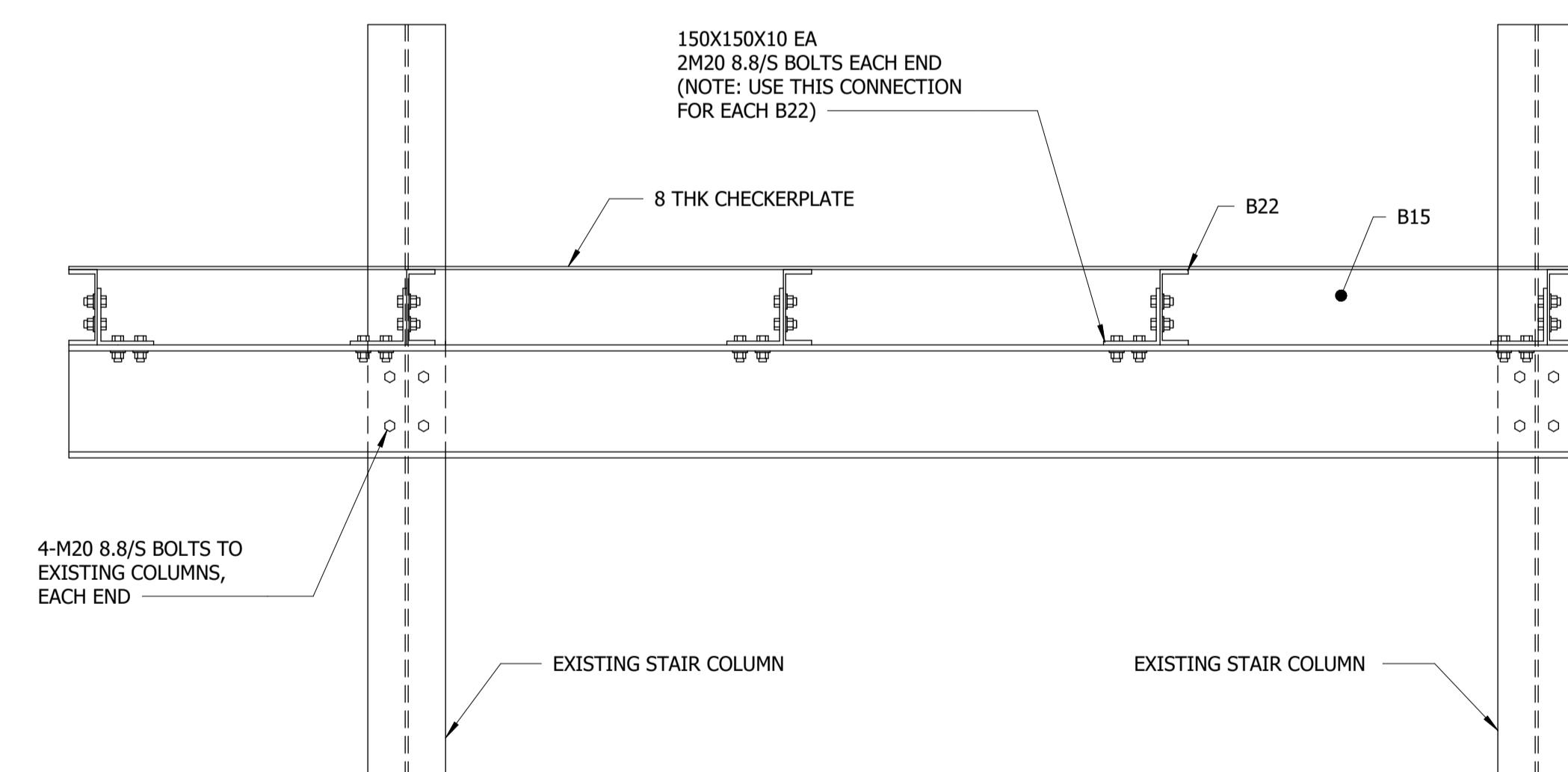


3 150UC / 200UC BASE PLATE
STR-001-105 1 : 10

4 SECTION 4
1 : 10



UPPER WALKWAY SUPPORT AT SILO ROOF (TYPICAL)



2 COLUMN C1 GUSSET PLATING

COLUMN C6 BASE PLATE

C8 BASE PLATE DETAIL SIMILAR

								A1	 McM S E R <p>DO NOT SCALE  ALL DIMENSIONS IN MILLIMETRES DRAWING PRACTICE TO AS1100 IF IN DOUBT <u>ASK</u></p> <p>Tolerances U.N.O. On dimensions</p> <table border="1"> <tr> <td>0 DEC PLACE</td> <td>±0.5</td> </tr> <tr> <td>1 DEC PLACE</td> <td>±0.2</td> </tr> <tr> <td>2 DEC PLACE</td> <td>±0.10</td> </tr> <tr> <td>ALL ANGLES</td> <td>±0.5°</td> </tr> </table>	0 DEC PLACE	±0.5	1 DEC PLACE	±0.2	2 DEC PLACE	±0.10	ALL ANGLES	±0.5°
0 DEC PLACE	±0.5																
1 DEC PLACE	±0.2																
2 DEC PLACE	±0.10																
ALL ANGLES	±0.5°																
D	01/03/2023	ISSUED FOR CLIENT REVIEW	BM	DH	DZ	HV											
C	20/01/2023	ISSUED FOR REVIEW	SB	DH	DZ	HV											
B	16/12/2022	ISSUED FOR REVIEW	BM	DH	DZ	HV											
A	11/11/2022	ISSUED FOR REVIEW	AT	DH	DZ	HV											
REV	DATE	REVISION HISTORY	DRN	CHK	FNG	PM											

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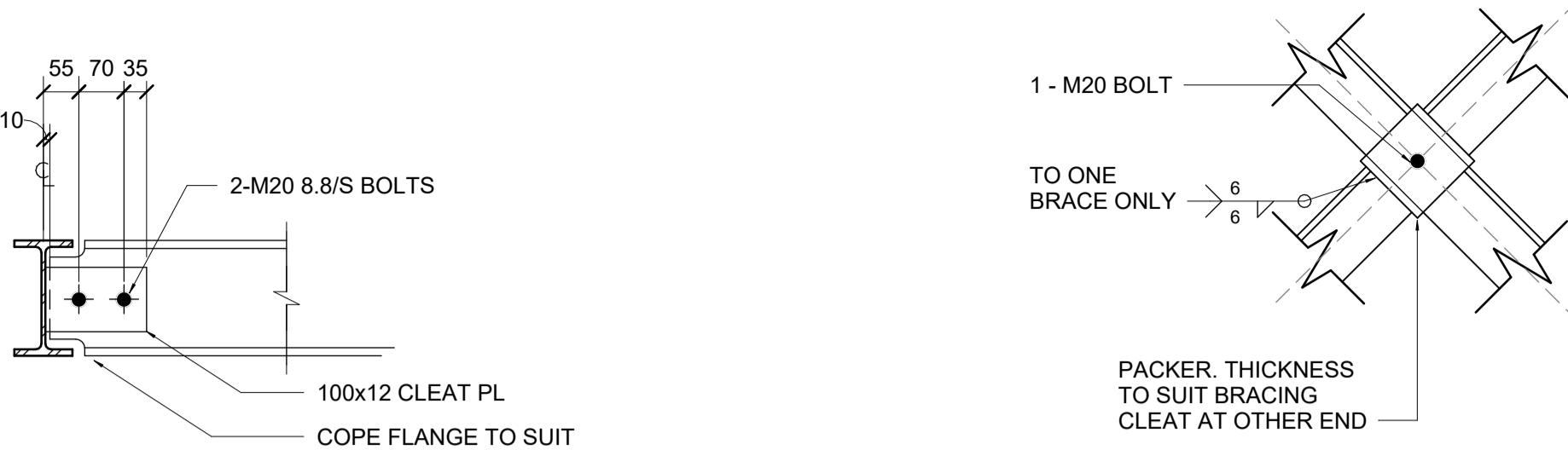
IMPORTANT NOTE:

The logo for McMahon Services. It features the company name "McMAHON" in a large, bold, blue sans-serif font. Below it, the word "SERVICES" is written in a smaller, gray, all-caps sans-serif font. To the left of the main text, there is vertical text: "SCALE" at the top, followed by a small graphic of a clipboard with a pen, then "ONS IN" and "RES" stacked vertically, then "E TO AS1100", and finally "T ASK" at the bottom.

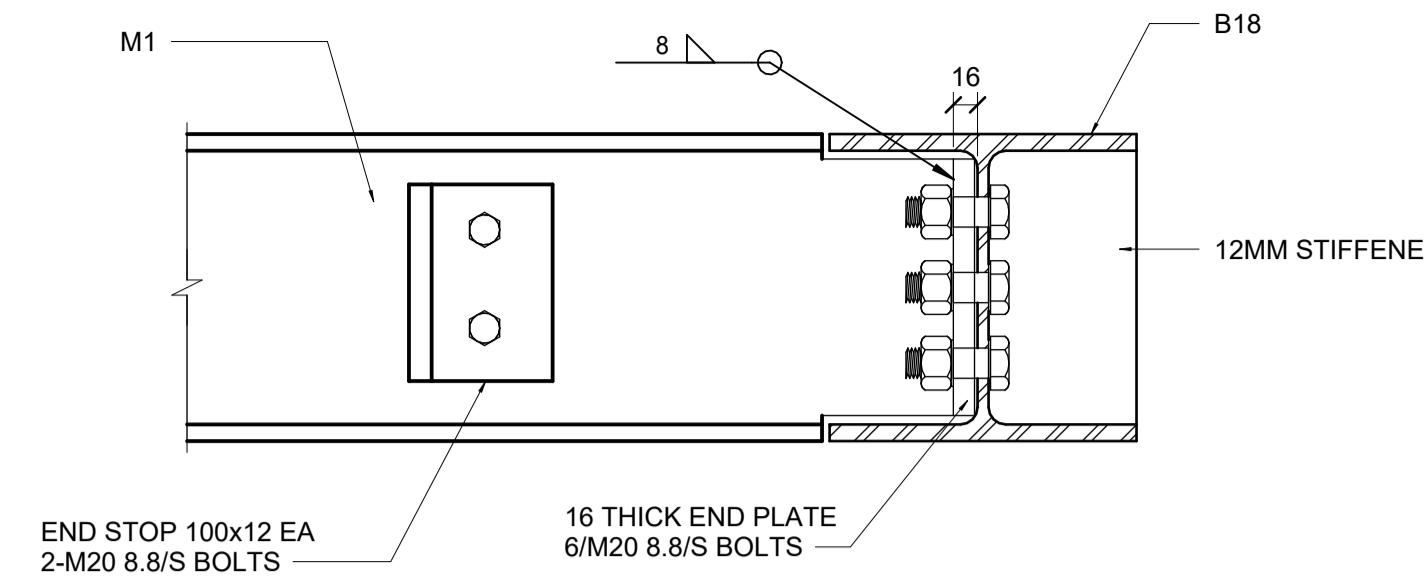
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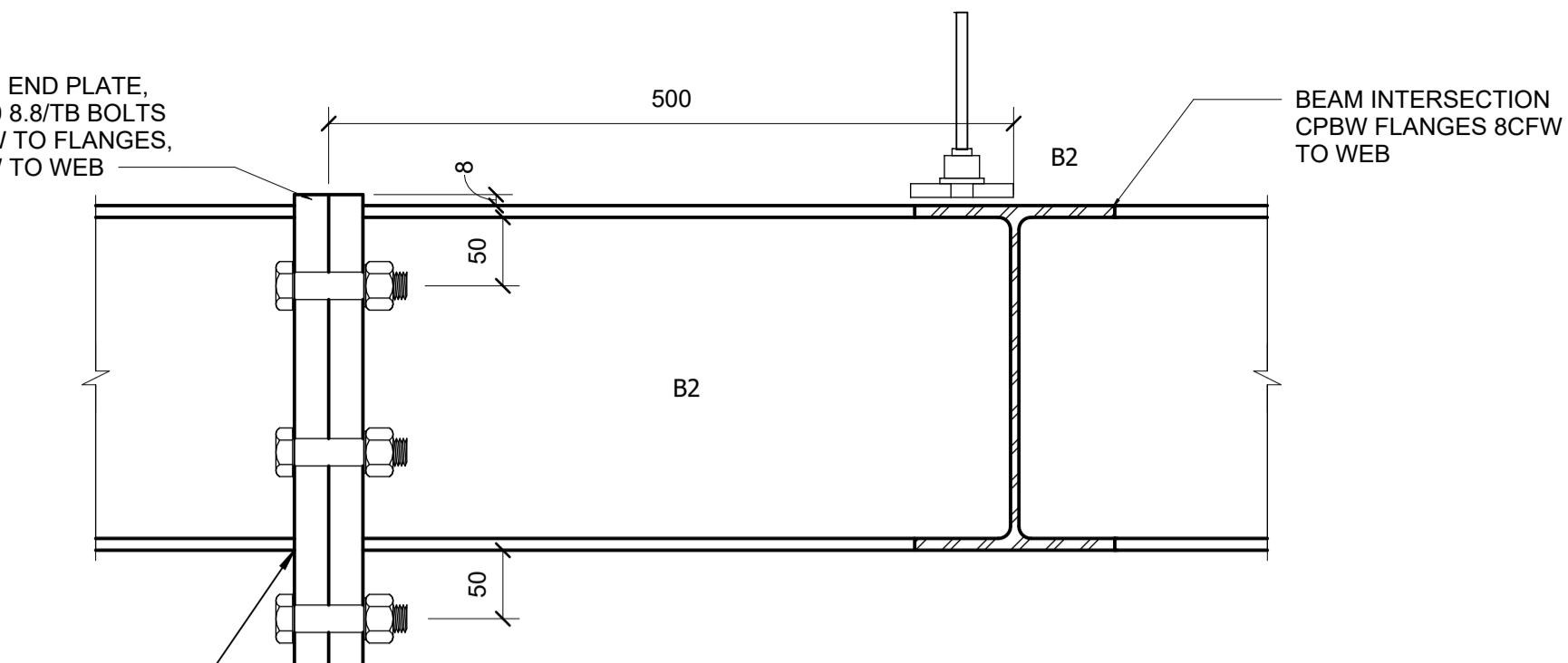
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Drawn : BM	Date : 01/03/2023	A3 Scale = 2.0 x	A1 Sheet Scale = 1 :	VAR.	
Description :	ADBRI BIRKENHEAD 1000T RMS SILO DETAILS SHEET 1				 3rd Angle A1
Cust. No.	Ref. No.	Type	Dwg. Series	Sheet No.	Revision
236-020		STR-001-802			D



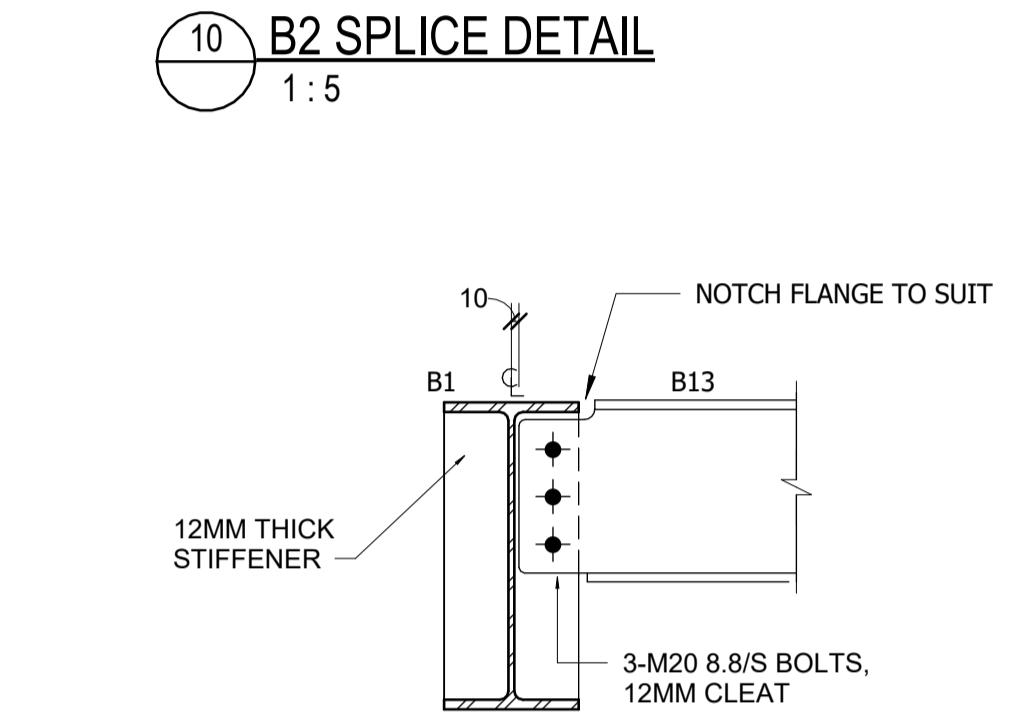
TYPICAL CLEAT CONNECTION 150 PFC, 150UC
1 AND 150UC
1:10



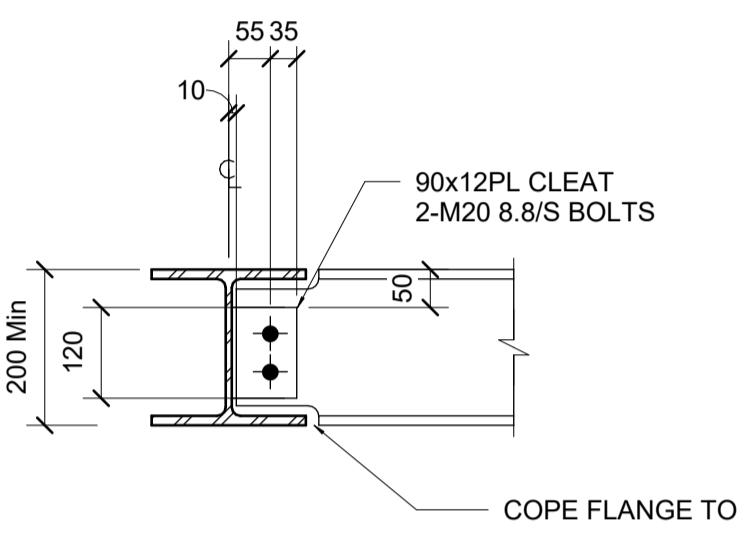
TYPICAL BRACING INTERSECTION
1:10



MONORAIL BEAM CONNECTION
1:5

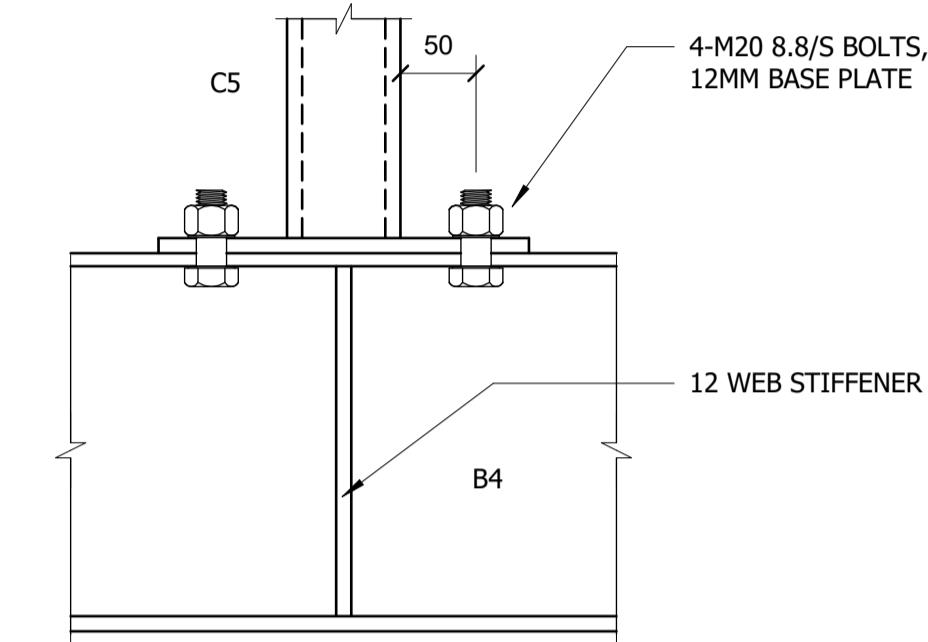
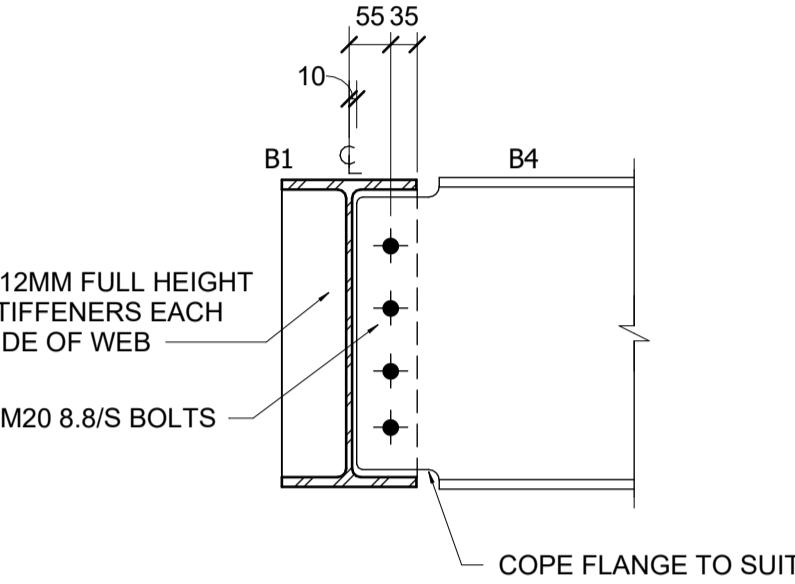


B2 SPLICE DETAIL
1:5



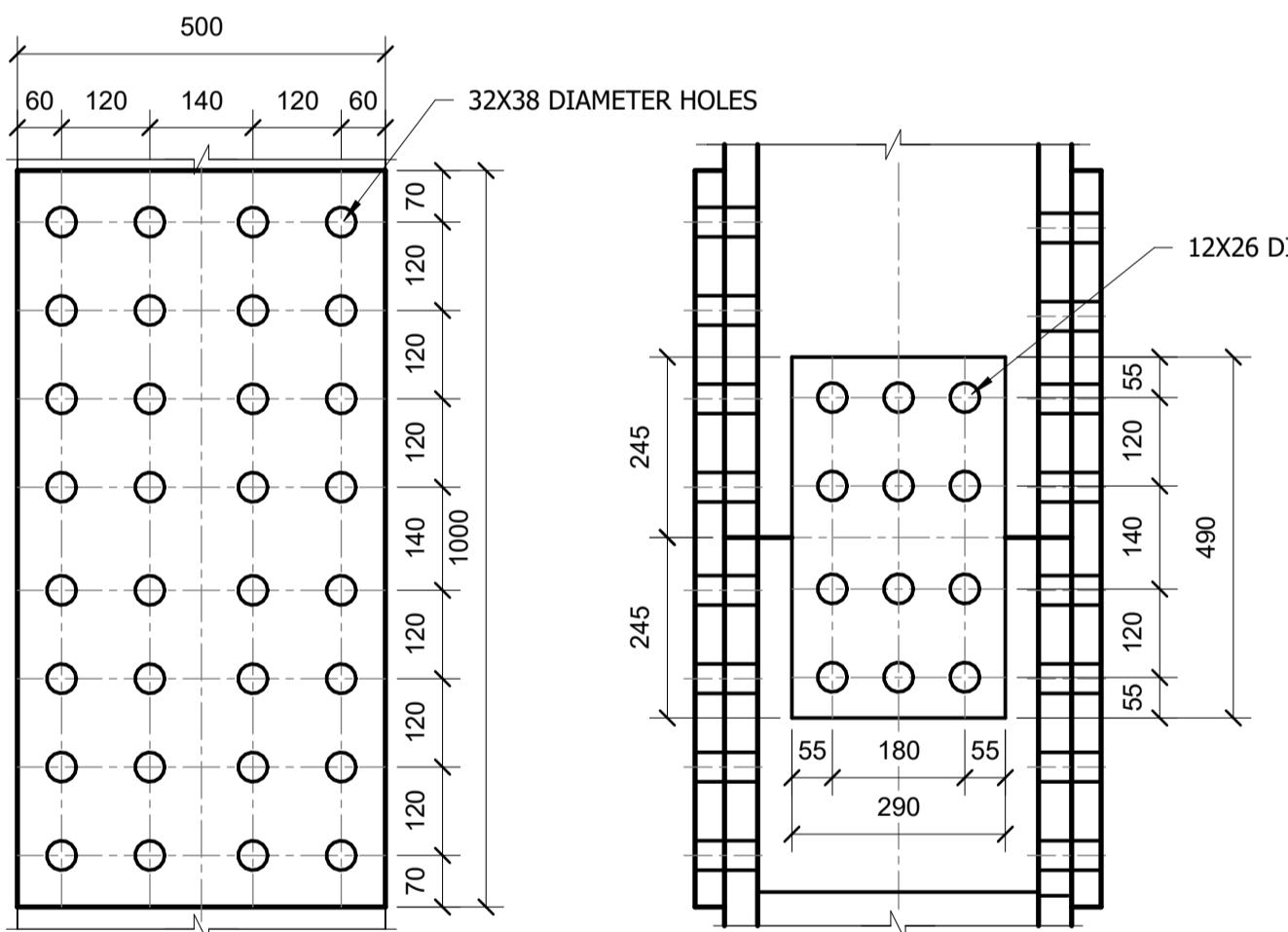
TYPICAL CLEAT CONNECTION 200 PFC, 200UC
2 AND 200UC
1:10

TYPICAL B4 TO B1 CONNECTION
1:10
(B20 TO B1 CONNECTION SIMILAR TO DETAIL 5)

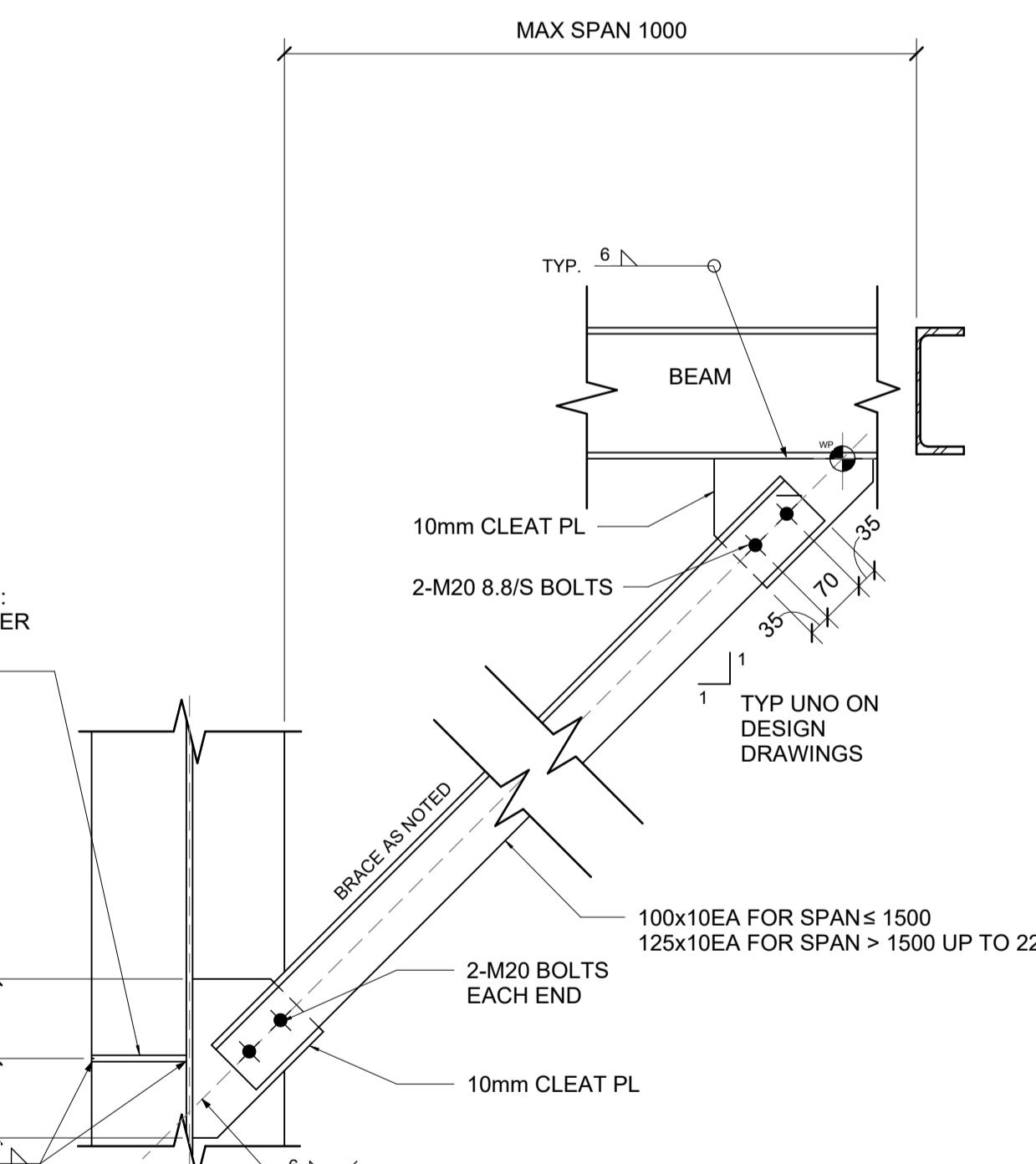


TYPICAL COLUMN C5 BASE PLATE
1:5

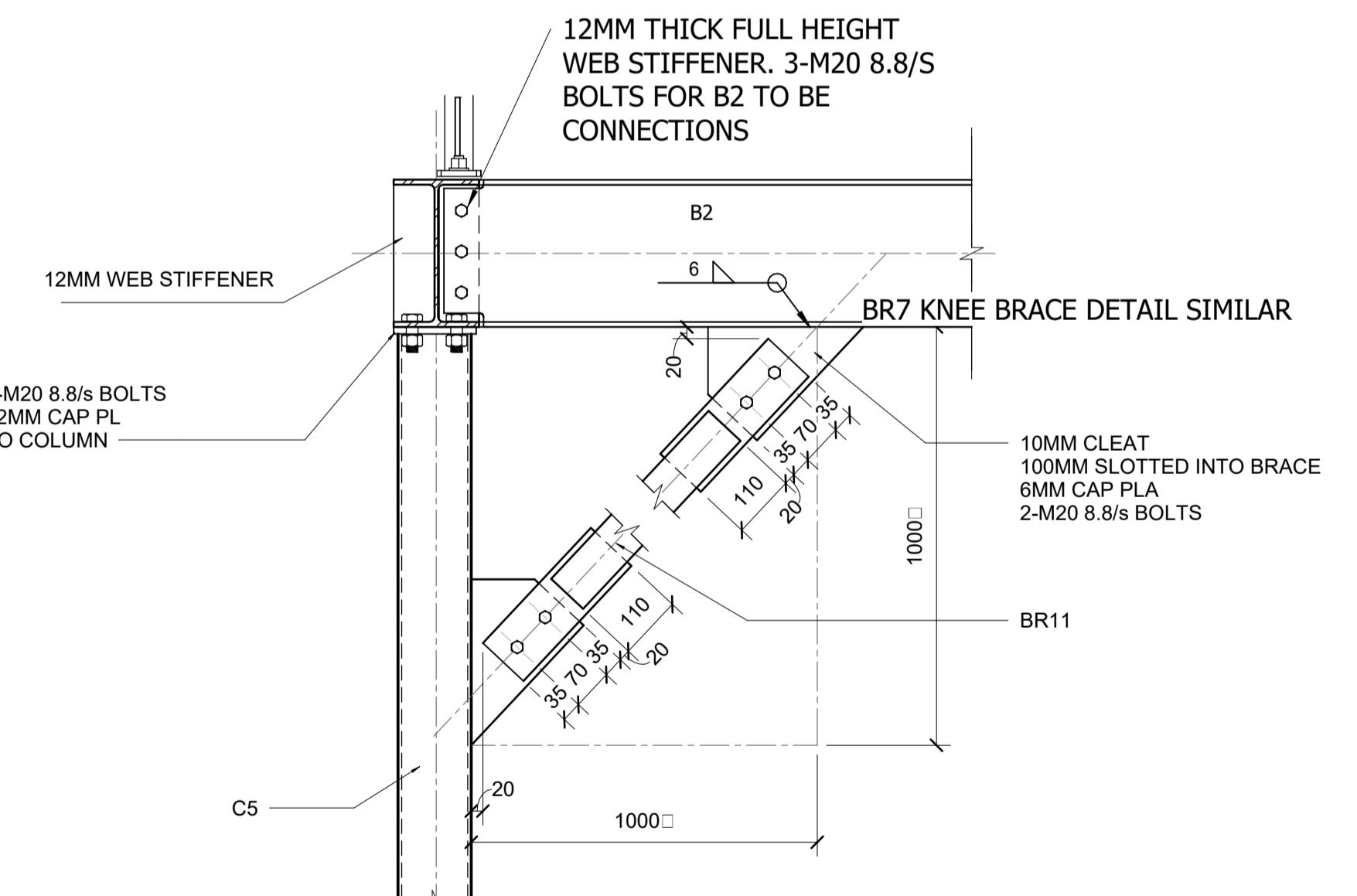
TYPICAL B13 TO B1/B4 CONNECTION
1:10



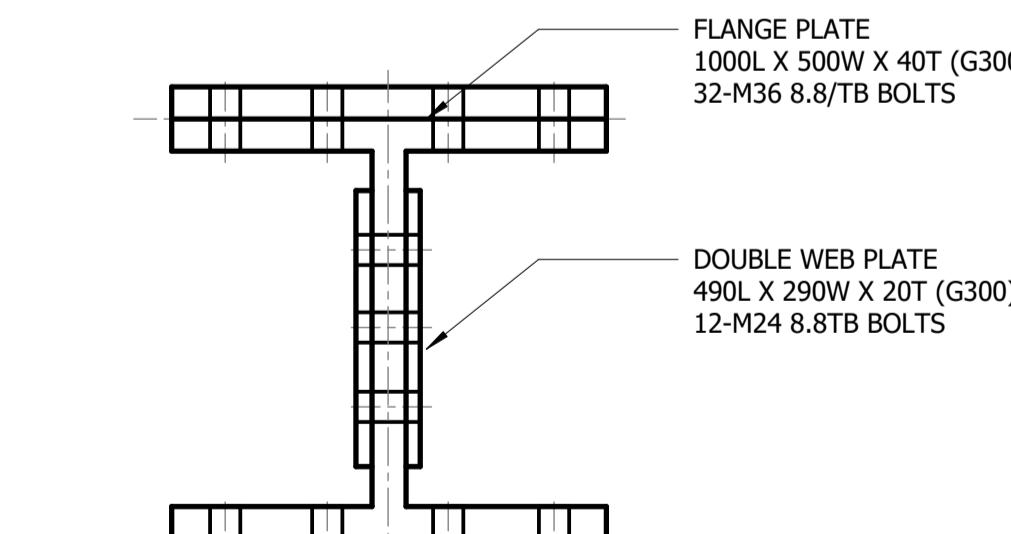
FOR KNEE BRACE CONNECTIONS TO WEB:
PROVIDE 12PL STIFFENER
BETWEEN FLANGES
(FULL WIDTH)



TYPICAL KNEE BRACE CLEAT DETAIL
1:10



TYPICAL BR11 KNEE BRACE CLEAT DETAIL
STR-001-102 1:10



COLUMN C1 SPLICE CROSS SECTION
1:10

IMPORTANT NOTE:

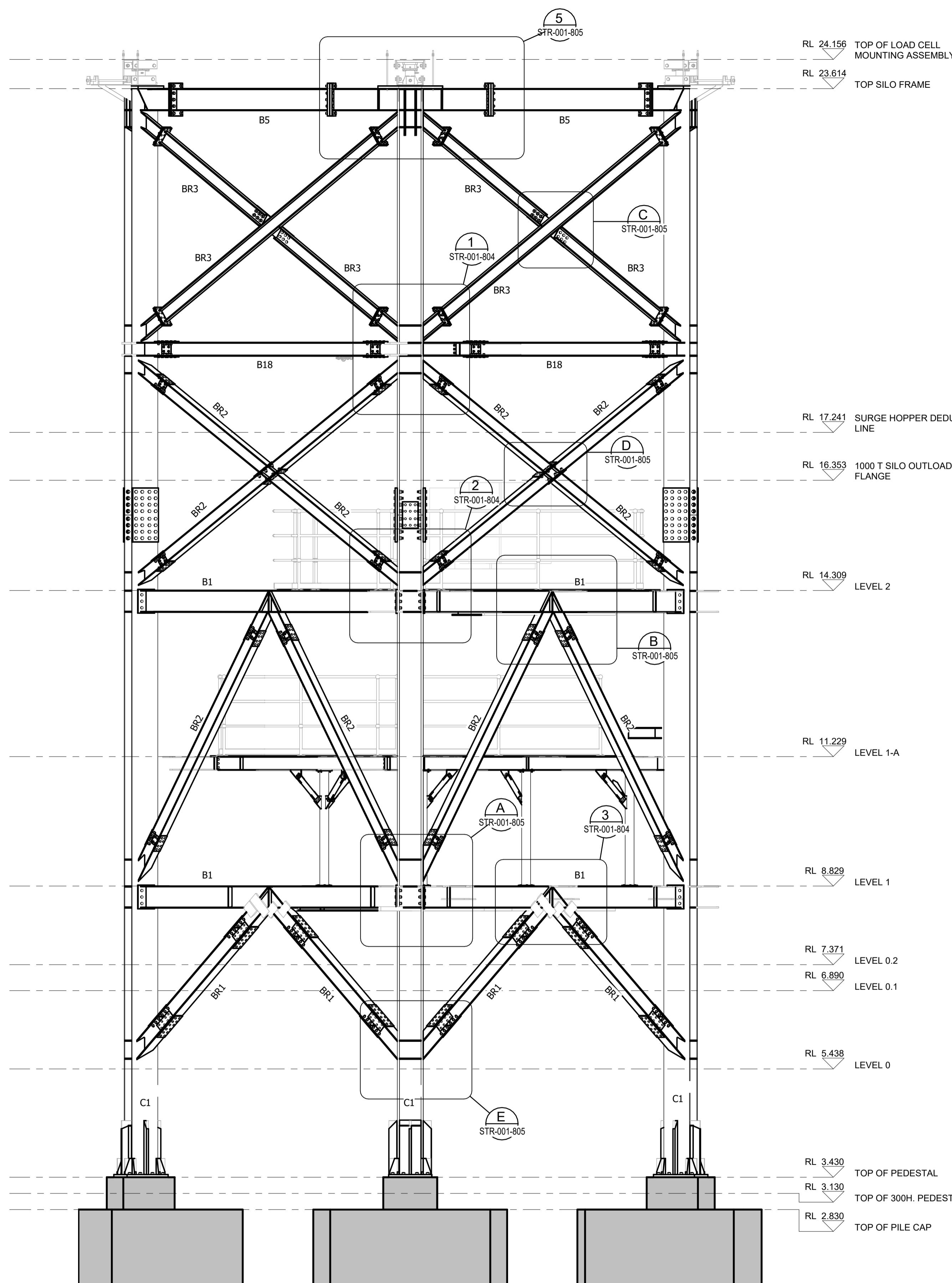
REV	DATE	REVISION HISTORY			DRN	CHK	ENG	PM	A1
D	01/03/2023	ISSUED FOR CLIENT REVIEW	BM	DH	DZ	HV			DO NOT SCALE ALL DIMENSIONS IN MILLIMETRES DRAWINGS UNLESS OTHERWISE STATED OR IF IN DOUBT ASK Customer : McMahon Services Reference : 236-020
C	20/01/2023	ISSUED FOR REVIEW	SB	DH	DZ	HV			
B	16/12/2022	ISSUED FOR REVIEW	BM	DH	DZ	HV			
A	11/11/2022	ISSUED FOR REVIEW	AT	DH	DZ	HV			

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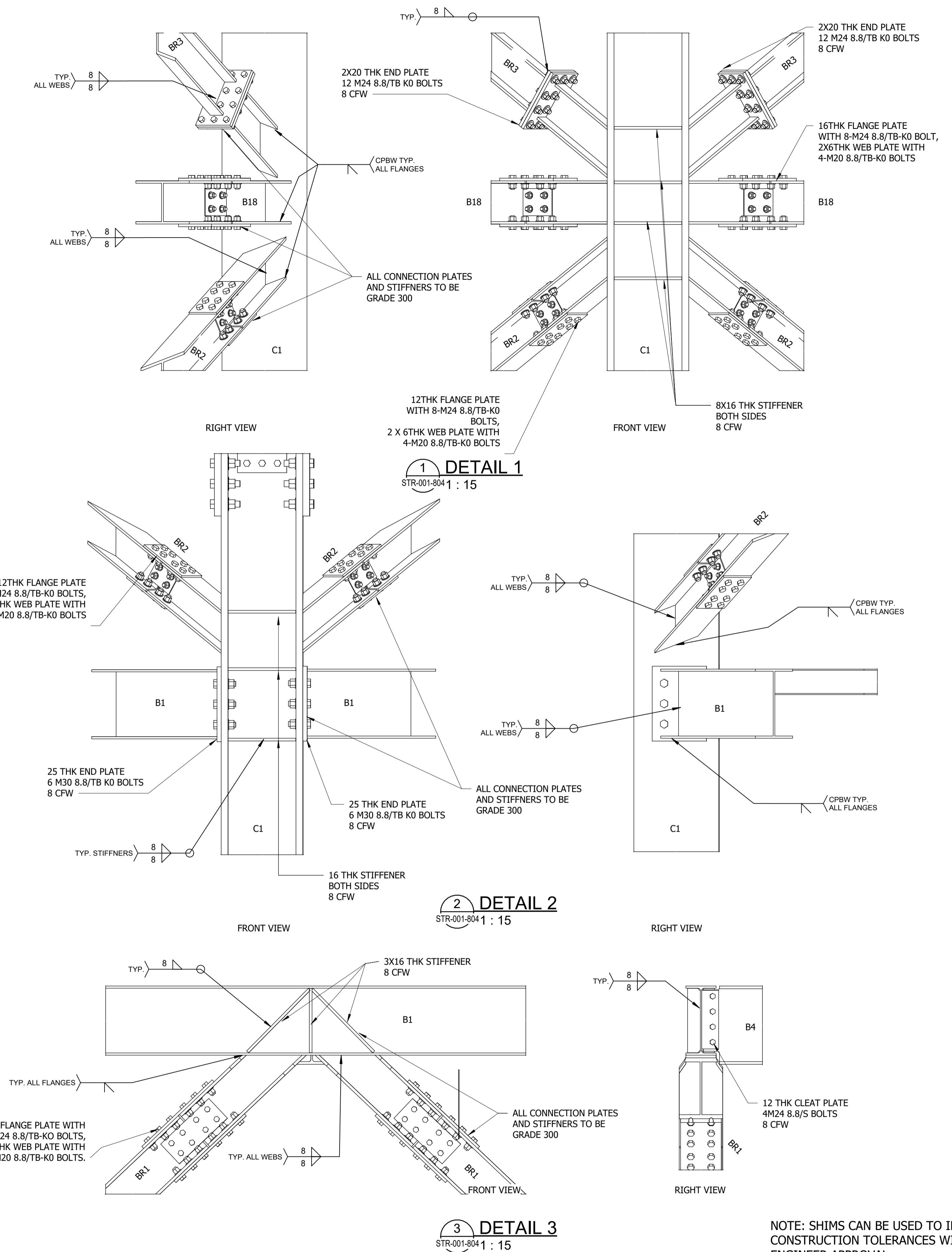
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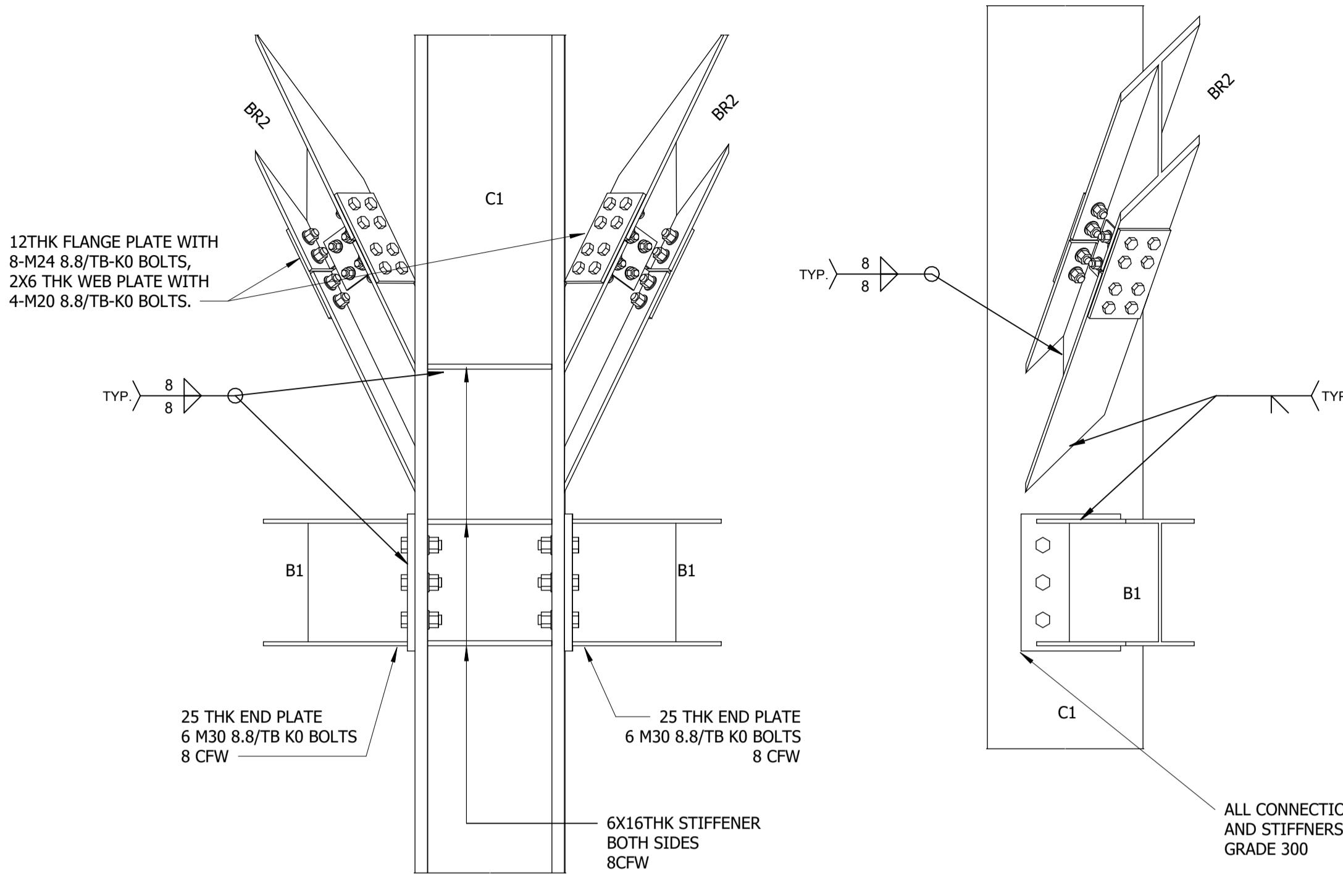
Status : ISSUED FOR CLIENT REVIEW									
Drawn : BM	Date : 01/03/2023	A3 Scale = 2.0 x	A1 Sheet Scale = 1 :	VAR.					
Description : ADBRI BIRKENHEAD 1000T RMS SILO									
Customer : McMahon Services	Reference : 236-020								
DETAILS SHEET 2									
Cust. No.	Ref. No.	Type	Dwg. Series	Sheet No.	Revision				
236-020	STR-001-803				D				



B-A Section 60
STR-001-101 1 : 50

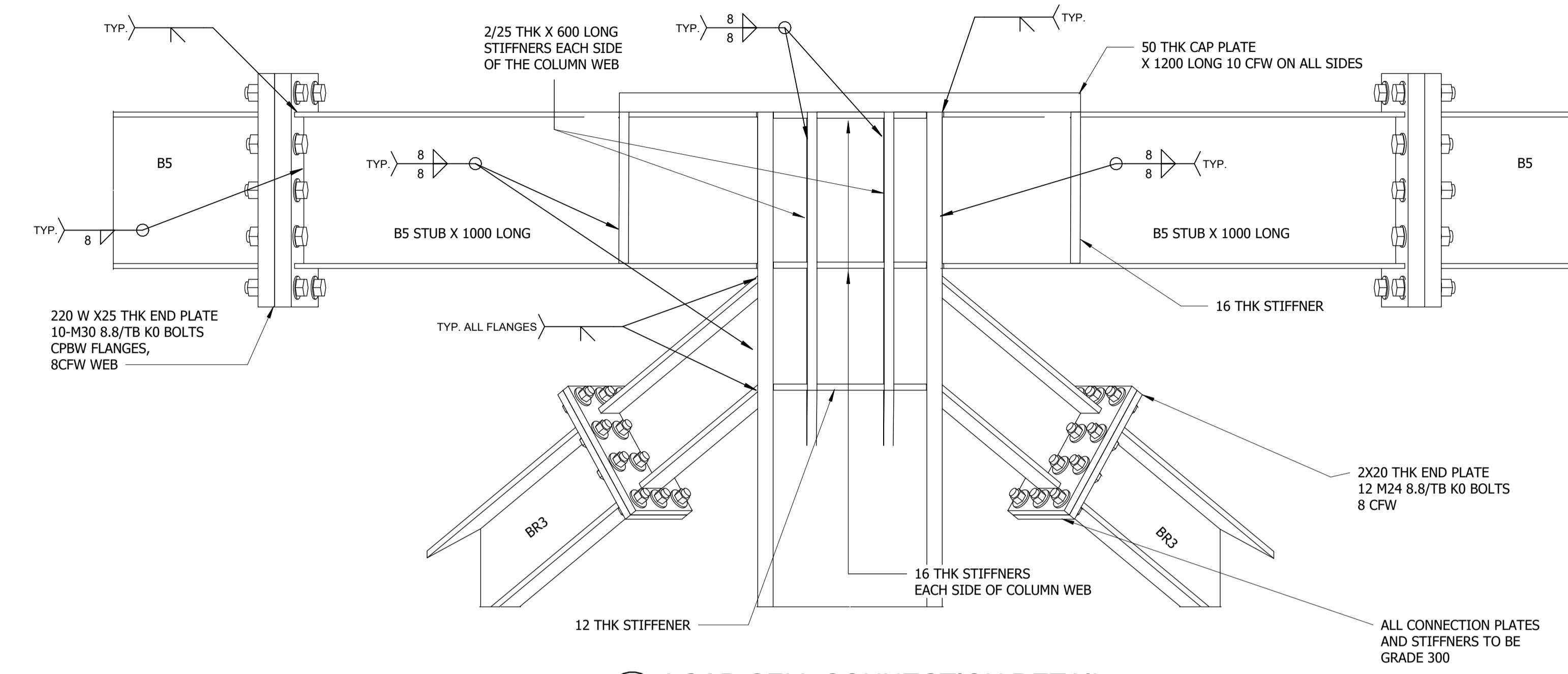
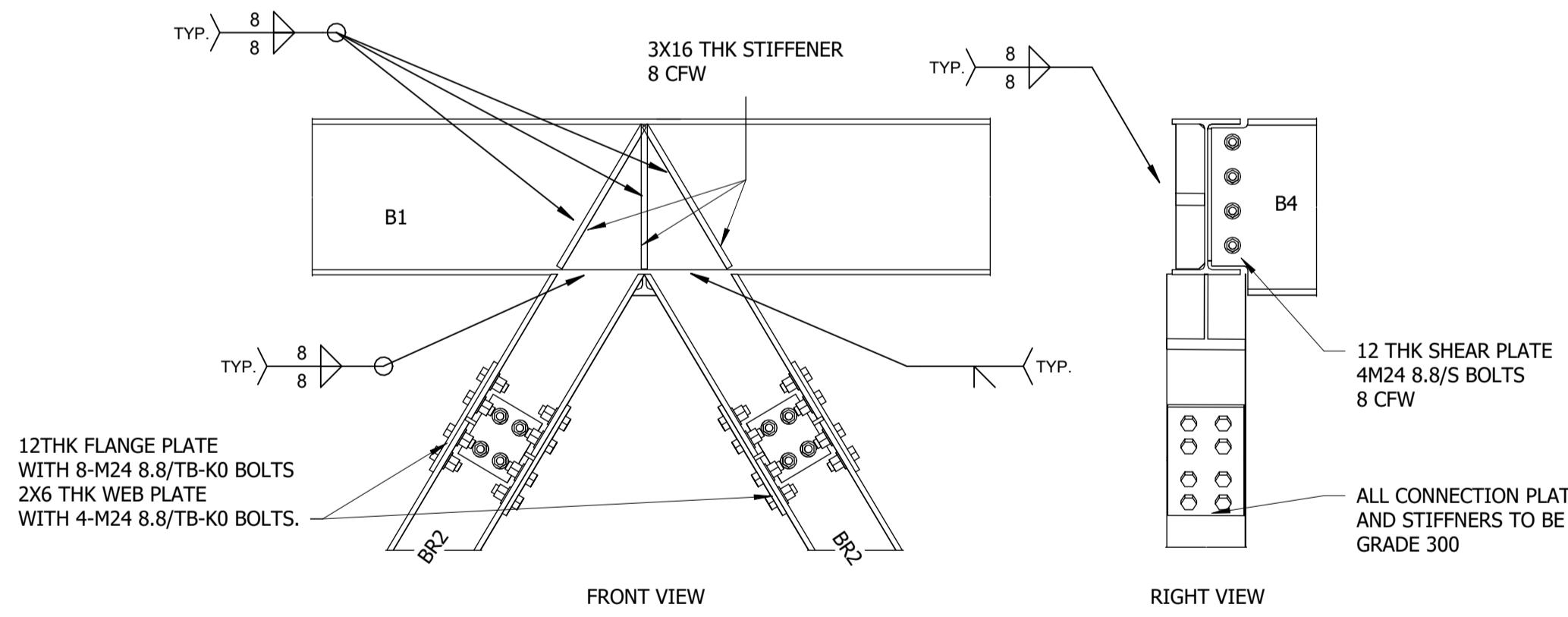


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D	27/02/2023	ISSUED FOR CLIENT REVIEW	BM	DH	DZ	HV	ISSUED FOR CLIENT REVIEW
C	20/01/2023	ISSUED FOR REVIEW	SB	DH	DZ	HV	Drawn : BM Date : 27/02/2023 A3 Scale = 2.0 x A1 Sheet Scale = 1 : 15 / 50
B	16/12/2022	ISSUED FOR REVIEW	BM	DH	DZ	HV	Description : ADBRI BIRKENHEAD 1000T RMS SILO
A	11/11/2022	ISSUED FOR REVIEW	AT	DH	DZ	HV	3rd Angle
REV	DATE	REVISION HISTORY	DRN	CHK	ENG	PM	A1
							Customer : McMahon Services
							Reference : 236-020
							Genius Consulting Pty Ltd, ABN 91 615 110 033 101 Henley Beach Rd, Ph: +61 8 7221 9970 Mile End, SA, 5031, www.ingenia.com.au
							236-020 STR-001-804 D



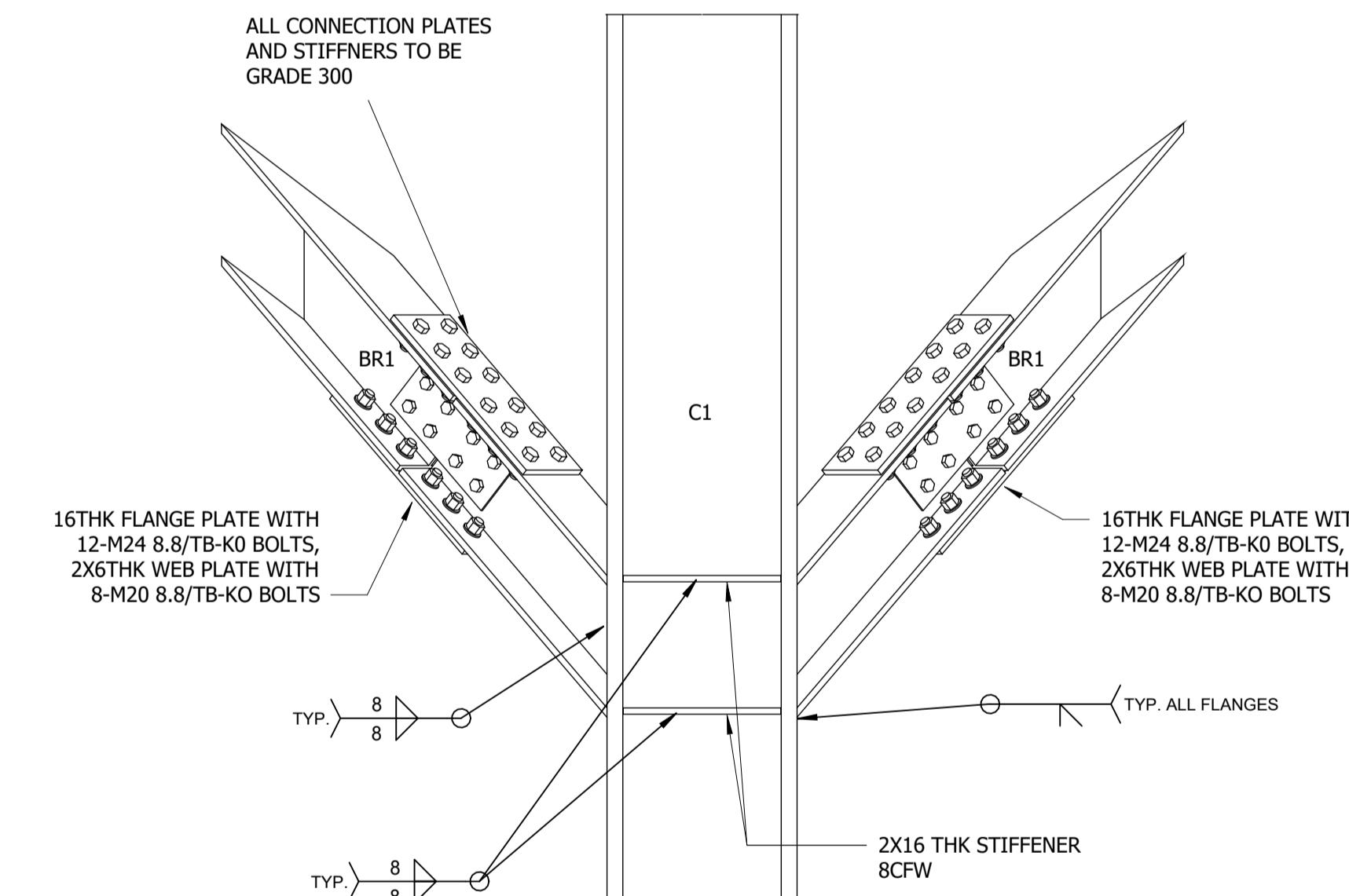
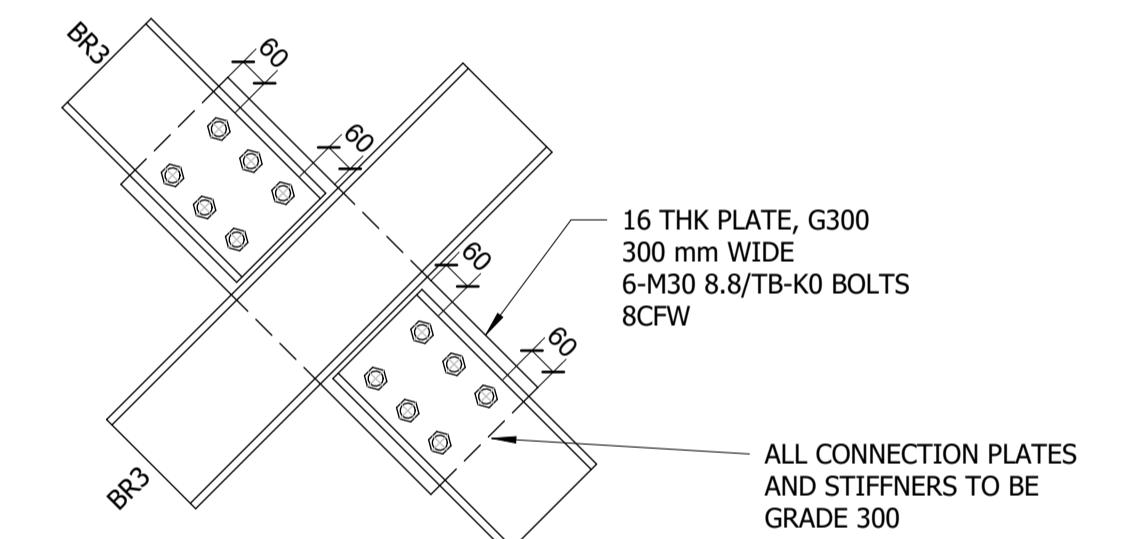
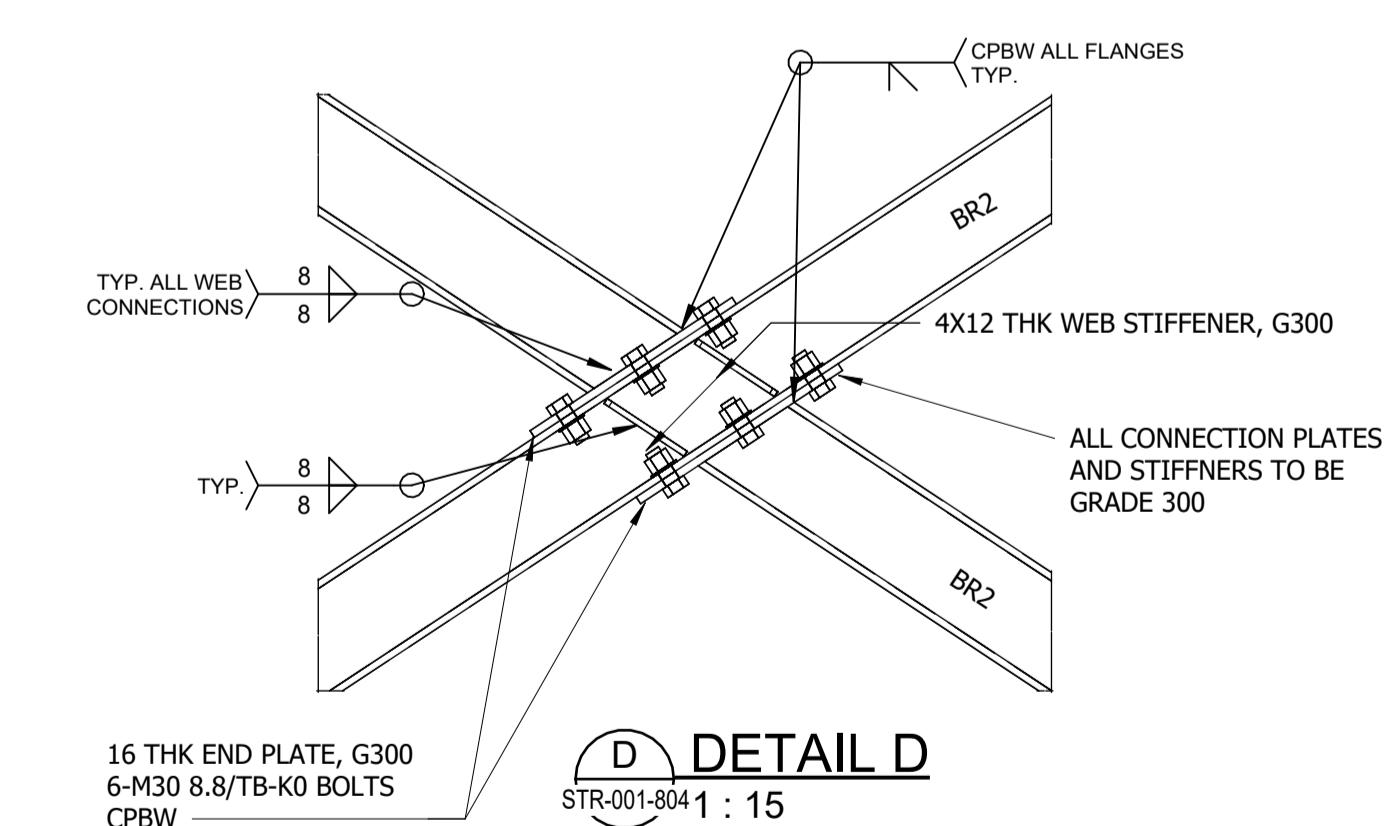
FRONT VIEW

RIGHT VIEW

5 LOAD CELL CONNECTION DETAIL
STR-001-804 1 : 10A DETAIL A
STR-001-804 1 : 15

FRONT VIEW

RIGHT VIEW

E DETAIL E
STR-001-804 1 : 15C DETAIL C
STR-001-804 1 : 15D DETAIL D
STR-001-804 1 : 15

								A1			Status : ISSUED FOR CLIENT REVIEW
D	27/02/2023	ISSUED FOR CLIENT REVIEW	BM	DH	DZ	HV	DO NOT SCALE			Drawn : BM Date : 27/02/2023 A3 Scale = 2.0 x A1 Sheet Scale = 1 : 10 / 15	
C	20/01/2023	ISSUED FOR REVIEW	SB	DH	DZ	HV	ALL DIMENSIONS IN MILLIMETRES DRAWINGS UNLESS OTHERWISE STATED IF IN DOUBT ASK			Description : ADBRI BIRKENHEAD 1000T RMS SILO	
B	16/12/2022	ISSUED FOR REVIEW	BM	DH	DZ	HV	Tolerance L.U.Q.			SILO FRAME CONNECTIONS - SHEET 2	
A	11/11/2022	ISSUED FOR REVIEW	AT	DH	DZ	HV	0 DEC PLACE 1 DEC PLACE 2 DEC PLACE 3 DEC PLACE ALL ANGLES ±0.5° ±0.2° ±0.1° ±0.05°			Cust. No. Ref. No. Type Dwg. Series Sheet No. Revision	
REV	DATE	REVISION HISTORY	DRN	CHK	ENG	PM					

McMAHON
SERVICES

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Status : ISSUED FOR CLIENT REVIEW
Drawn : BM Date : 27/02/2023 A3 Scale = 2.0 x A1 Sheet Scale = 1 : 10 / 15
Description : ADBRI BIRKENHEAD 1000T RMS SILO
SILO FRAME CONNECTIONS - SHEET 2
Cust. No. Ref. No. Type | Dwg. Series | Sheet No. Revision
236-020 STR-001-805 D