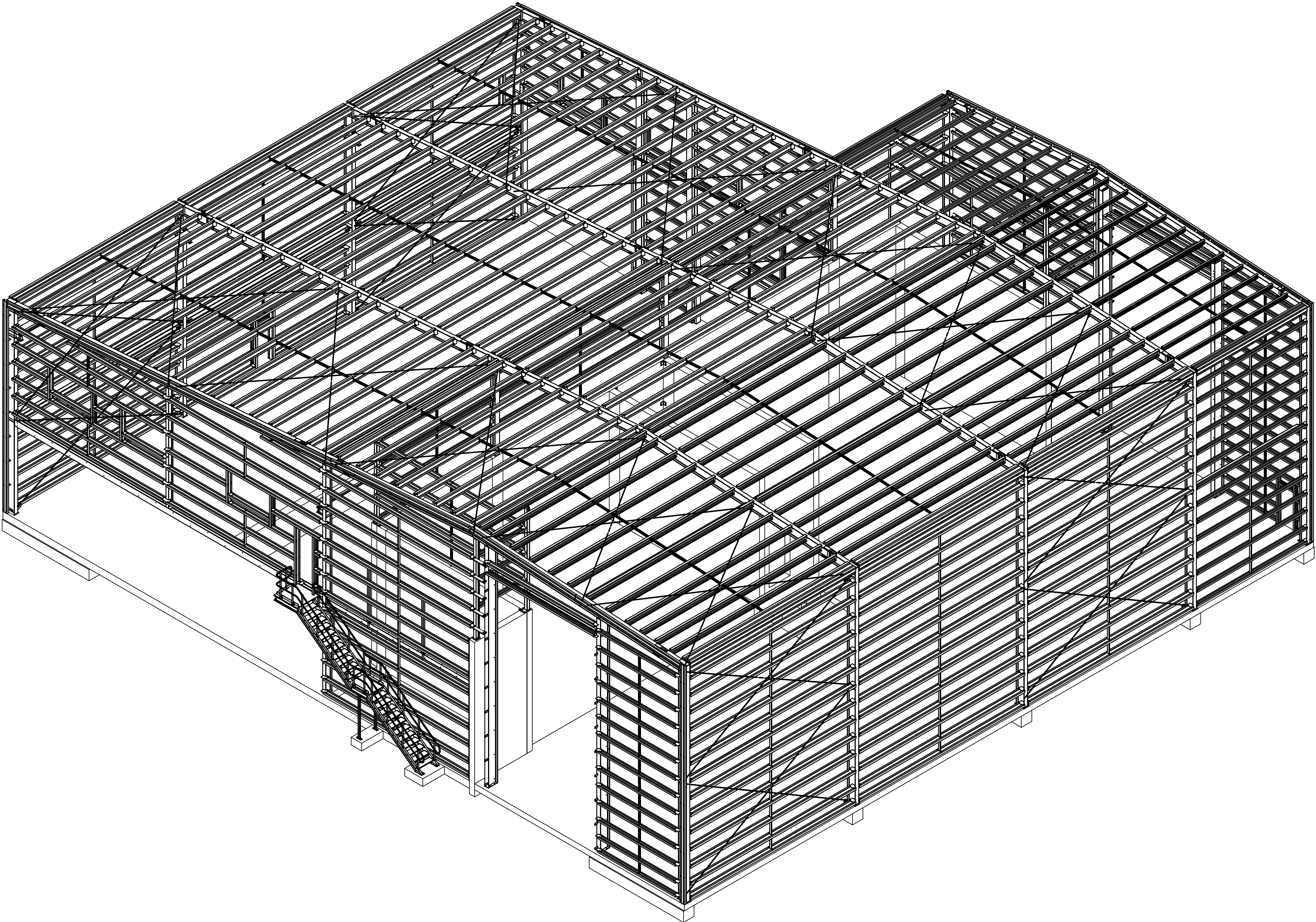




SAMPLE ONLY

QUALITY CONTROL

- SinglePart Drawing to be signed off by fabricator of part
- Assembly Drawing to be signed off that check has complied before welding
- Assembly Drawing to be signed of that welding has complied with engineers specifications.
- Workshop Checklist to be checked off once Assembly complete
- Delivery Checklist to be checked off when Assemblies have left workshop

PAINTING SPECIFICATION

- Coating system must comply with.
- AS/NZS 2312.1:2014

Contract Holder to confirm all painting systems. Refer ENG drawings for further information.

HOLES IN BEAMS

- DRILL ALL HOLES IN SECTIONS BEFORE ASSEMBLY.

WELDING NOTES

- All fillet welds 6mm all round U.N.O
- All welds to be SP class (for structural purpose)

WELDING SPECIFICATION

- 100% visual scanning checking for quality and completeness U.N.O.
- All welding must comply with engineers specifications

BOLTS

- All Bolts AS 1252 HSFG U.N.O
- Bolting must comply with NZS3403 (Clauses 15.2.3 to 15.2.5)

EPOXIED ANCHORS

- Where epoxied anchors are specified, Ramset Epcon C8 XTREM or approved equivalent is to be used U.N.O ensure anchors are installed to manufacturers specifications, unless noted otherwise

IFA CHECKING

- 3CAD Limited drawings to be checked by engineer and architect that connections & members comply with engineers specifications and that dimensions comply with architects dimensions.
- Fabrication to commence once both checks have been completed.
- Assembly drawings to be checked if requested by engineer, otherwise GA drawings & files will be accepted.

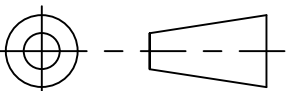
STRAIGHTENING

- STRAIGHTEN SECTIONS BEFORE welding on items.
- All items to be straightened after welding completed

LABELING

- Compass heading for label orientation by fabricator
- CENTER MARK for plate/member to plate/member connection orientation

THIRD ANGLE PROJECTION U.N.O

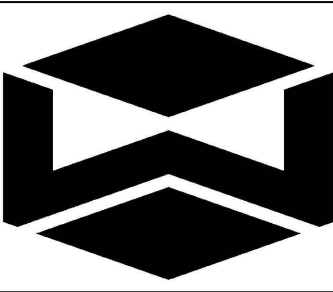


STANDARD ABBREVIATIONS

ALT	Alternating
ARCH	Architect
BOS	Bottom of steel
BLG	Building
C/C	Centre to centre
CL	Construction joint
COS	Check on site
CONC	Concrete
CL	Centre line
CRS	Centres
DIA	Diameter
FFL	Finished floor level
FPBW	Full penetration butt weld
FS	Far side
FWAR	Fillet weld all round
GALV	Galvanised
GL	Ground level
ID	Inside diameter
MS	Mild steel
NS	Near side
NOM	Nominal
NTS	Not to scale
O/A	Overall
OD	Outside diameter
PC	Precast concrete
RAD	Radius
RL	Reduced level
RD	Running Dimension
STGD	Staggered
SPEC	Specification
SS	Stainless steel
TOS	Top of steel
TYP	Typical
U/S	Underside
UNO	Unless noted otherwise
WP	Weld plate

ALL TIMBER & CONCRETE ONLY DRAWN AS REFERENCE - REFER TO ARCHITECTS & ENGINEERS PLANS FOR FURTHER DETAILS

WELD SYMBOLS													
FILLET WELD (10mm)	FILLET BOTH SIDES	SINGLE 'V' BUTT	DOUBLE 'V' BUTT	BEVEL BUTT	DOUBLE BEVEL BUTT	WELD TYPE ABBREVIATION	PLUG WELD	SQUARE BUTT	ADDITIONAL DATA (FILLET WELD)	MISS 100mm HIT 50mm	GRIND FLUSH ('V'-BUTT)	WELD ALL AROUND	SITE WELD



3DCAD LIMITED
CAD TECHNICIAN

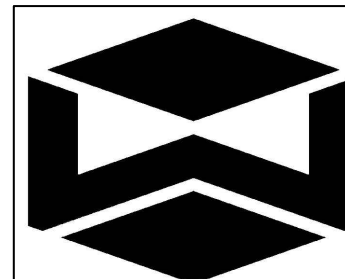
P: 022 306 7505
E: BRAD@3DCAD.CO.NZ
W: 3DCAD.CO.NZ

C	17/04/2023	BSW	IFC		
B	28/03/2023	BSW	IFA#2		
A	1/03/2023	BSW	IFA		
Index	Date	Author	Description		
	Date	Name	Model DWG - Biomass		Status Comment
Order	15/01/2023		Engineer	SAMPLE	Revision Date
Detailer	1/03/2023	BSW	Architect	SAMPLE	17/04/2023
Scale	@A1		Project No.		Drawing Num.
1:100			T.B.C		1001
					
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Run	Part Name	RMS (mV)
1	110 V/250 V/250 V/250 V	4.21
2	110 V/250 V/250 V/250 V	4.22
3	110 V/250 V/250 V/250 V	4.23
4	110 V/250 V/250 V/250 V	4.24
5	110 V/250 V/250 V/250 V	4.25
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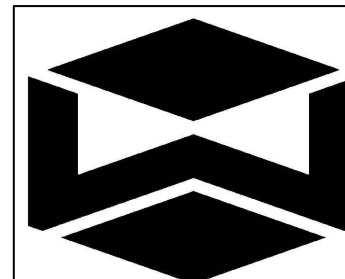


C	17/04/2023	BSW	IFC
B	28/03/2023	BSW	IFA#2
A	1/03/2023	BSW	IFA
Index	Date	Author	Description
	Date	Name	Model DWG - Biomass
Order	15/01/2023	Engineer	SAMPLE
Detailer	1/03/2023	BSW	Architect SAMPLE
		@A1	Project No. T.B.C
Scale 1:100			Drawing Num. 1003
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Run	Part Name	RMS (mV)
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2	110 V/250 V/250 V/250 V	4.22
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ALL TIMBER & CONCRETE ONLY DRAWN AS REFERENCE - REFER TO ARCHITECTS & ENGINEERS PLANS FOR FURTHER DETAILS



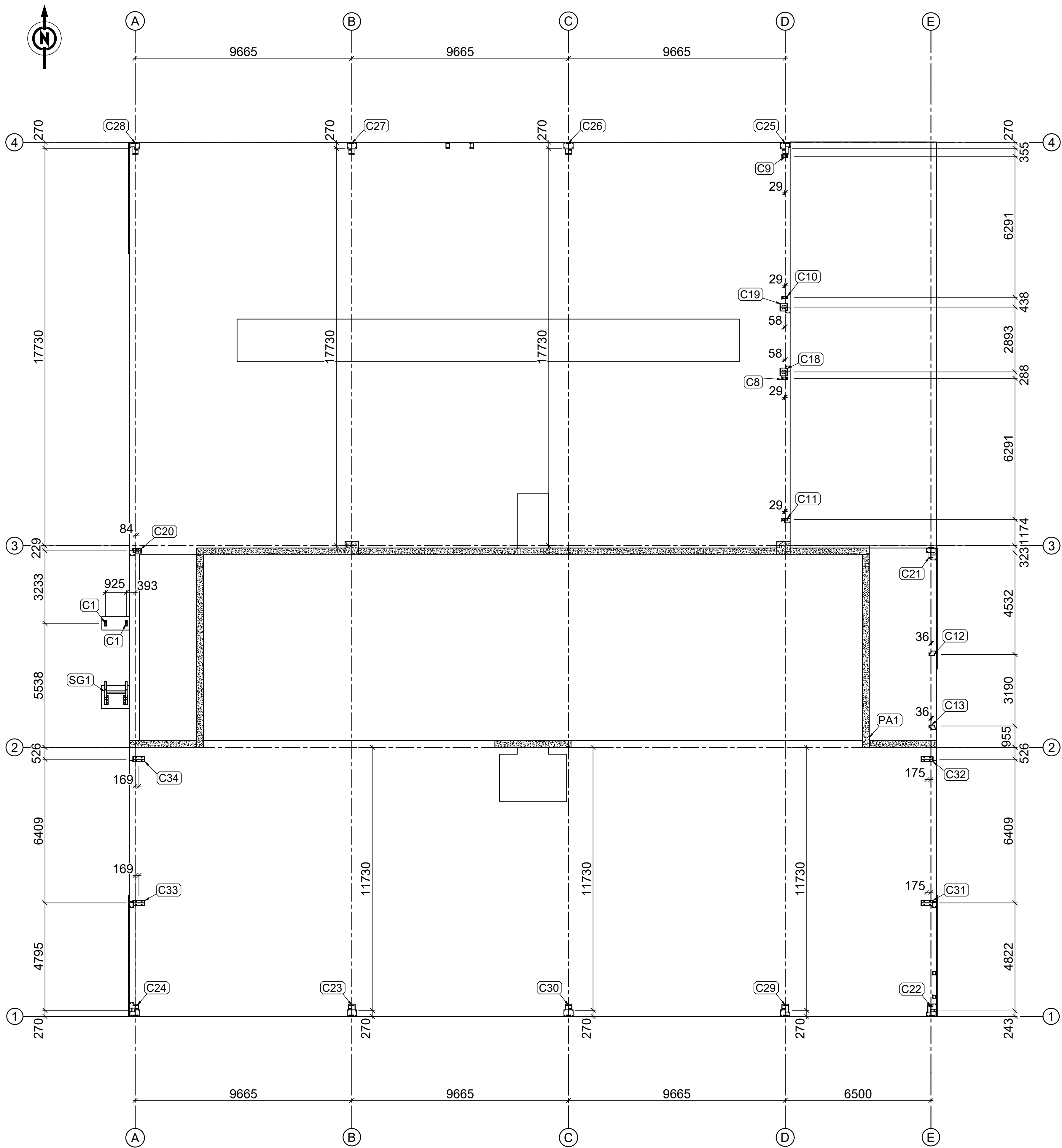
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W: 3DCAD.CO.NZ

C	17/04/2023	BSW	IFC				
B	28/03/2023	BSW	IFA#2				
A	1/03/2023	BSW	IFA				
Index	Date	Author	Description				
	Date	Name	Model DWG - Biomass			Status Comment	
Order	15/01/2023		Engineer			Revision Date	
Detailer	1/03/2023	BSW	Architect	SAMPLE		17/04/2023	
Scale 1:100	@A1	Project No. T.B.C			Drawing Num. 1006	C	
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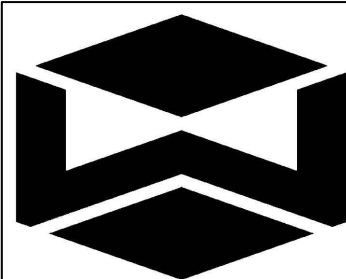


BASEPLATE LAYOUT
COLUMN CENTERS & MAIN PART NUMBER
SCALE: 1:100
GROUND LEVEL

Mark	Part Name	ASM Weight
13	STD METAL CRAFT BRIDGE	2.95
29	STD METAL CRAFT BRIDGE	2.89
30	STD METAL CRAFT BRIDGE	2.89
41	STD METAL CRAFT BRIDGE	2.96
44	STD METAL CRAFT BRIDGE	2.88
C1	75x75x5.0 SHS	25.02
C8	250 PFC	133.38
C9	250 PFC	227.74
C10	250 PFC	227.74
C11	250 PFC	144.24
C12	250 PFC	116.43
C13	250 PFC	116.43
C18	310 UC 96.8	1097.59
C19	310 UC 96.8	1067.38
C20	360 UB 58.7	723.18
C21	410 UB 59.7	881.49
C22	410 UB 59.7	891.01
C23	460 UB 82.1	1220.21
C24	460 UB 82.1	1228.90
C25	460 UB 82.1	1133.56
C26	460 UB 82.1	1150.10
C27	460 UB 82.1	1150.10
C28	460 UB 82.1	1132.09
C29	460 UB 82.1	1206.10
C30	460 UB 82.1	1220.21
C31	530 UB 82.0	1009.33
C32	530 UB 82.0	1017.83
C33	530 UB 82.0	1004.89
C34	530 UB 82.0	1013.39
G1	MSS300/15	63.23
G4	MSS200/15	12.01
G5	MSS300/15	63.23
G6	MSS200/15	12.14
G10	MSS250/18	5.89
G14	MSS250/18	29.07
G18	MSS250/18	3.71
G21	MSS200/15	1.91
G23	MSS300/15	27.76
G24	MSS300/15	27.98
G25	MSS200/15	29.45
G26	MSS200/15	20.77
G28	MSS200/15	11.63
G39	MSS300/15	16.46
G50	MSS200/15	14.09
G52	MSS250/18	56.73
G78	MSS250/18	80.57
G79	MSS250/18	81.15
G80	MSS250/18	71.25
G81	MSS250/18	80.64
G82	MSS250/18	71.39
HD1	42.4x3.2 CHS	99.48
HD2	42.4x3.2 CHS	140.51
PA1	150x150x12 EA	4.02
RB3	RB 25	41.27
RB9	ReidBrace Set RB25	0.00
RB11	RB 25	39.17
SG1	230 PFC	595.18

NOTE: TREAT ALL DETAILS AS TYPICAL

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B	28/03/2023	BSW	IFA#2
A	1/03/2023	BSW	IFA
Index	Date	Author	Description
	Date	Name	Model DWG - Biomass
Order	15/01/2023	Engineer	SAMPLE
Detailer	1/03/2023	BSW	Architect
Scale		@A1	Project No.
1:100			T.B.C
			Drawing Num.
			1007
			
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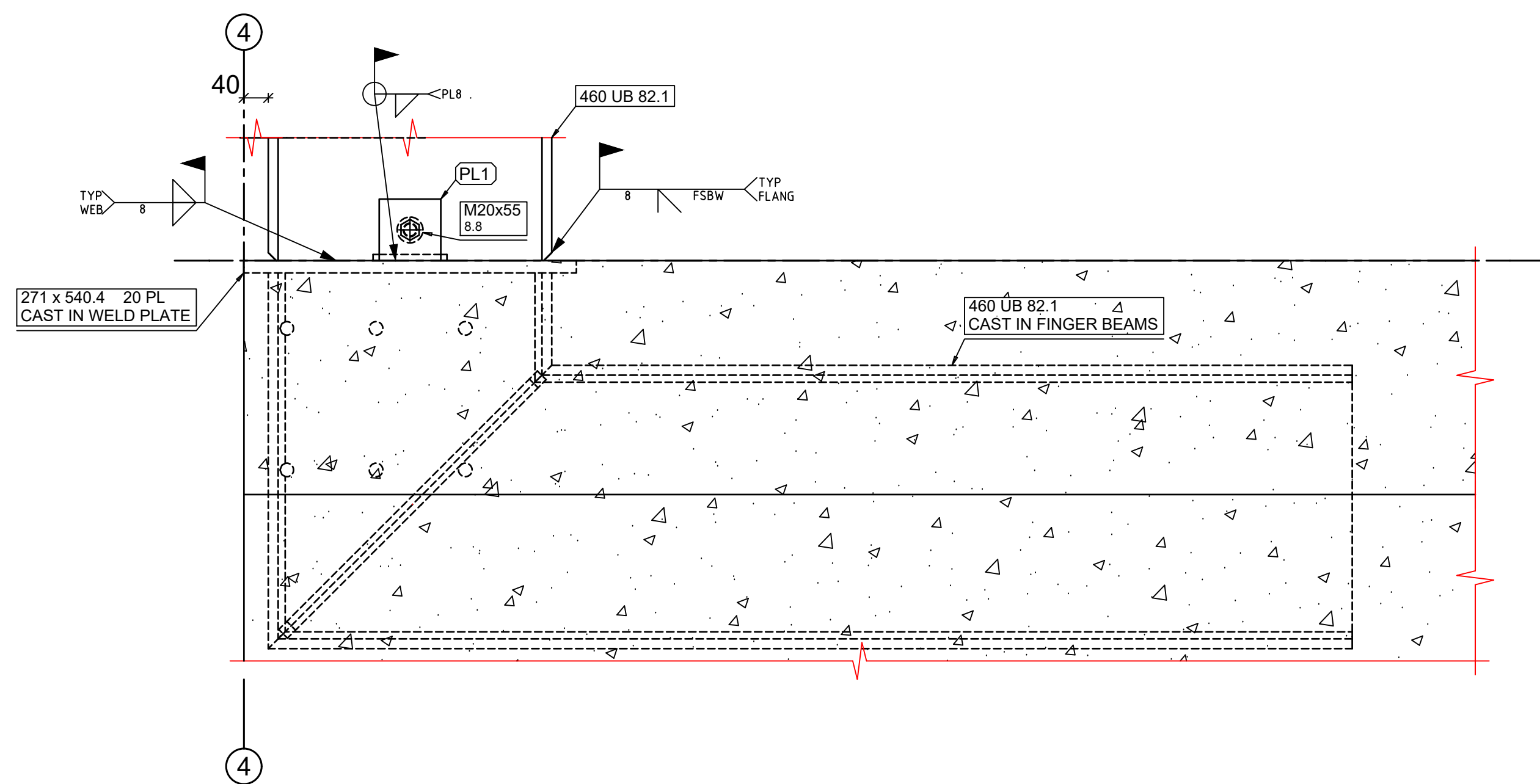
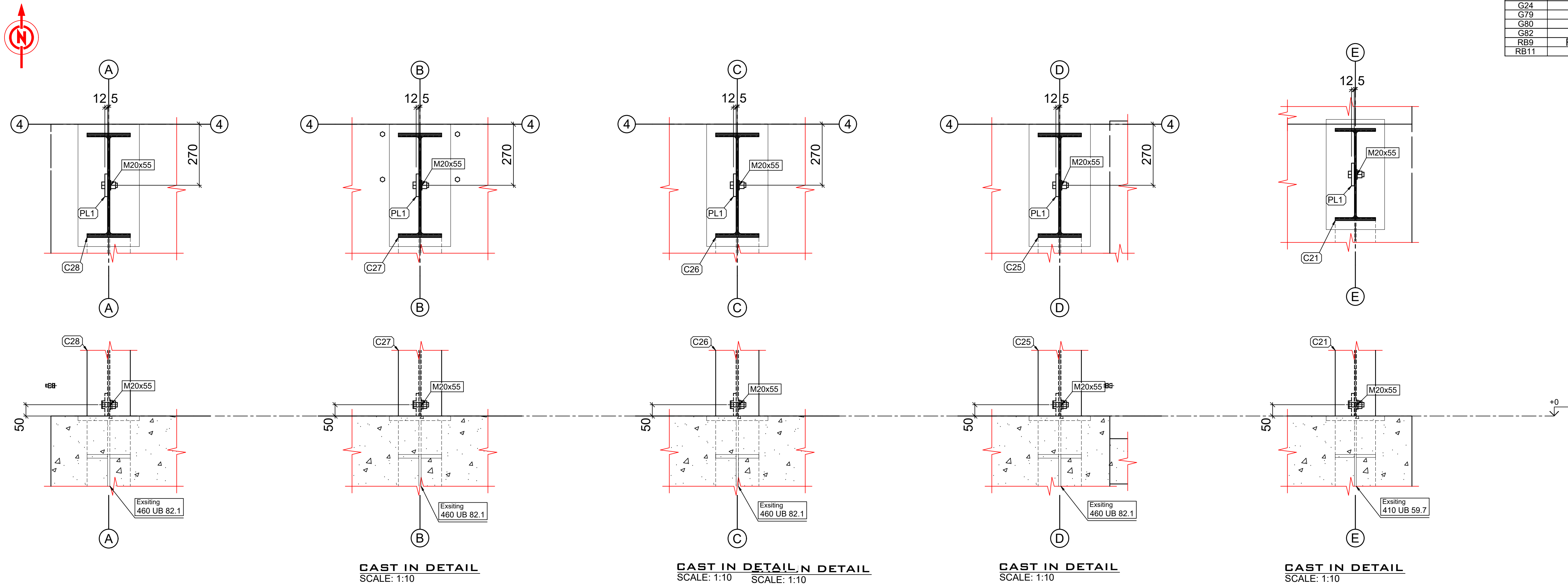
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B	28/03/2023	BSW	IFA#2
A	1/03/2023	BSW	IFA
Index	Date	Author	Description
	Date	Name	
Order	15/01/2023		Model DWG - Biomass Status Comment
			Engineer SAMPLE Revision Date
Detailed	1/03/2023	BSW	Architect SAMPLE 17/04/2023
Scale 1:100		@A1	Project No. T.B.C
			Drawing Num. 1008

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C	17/04/2023	BSW	IFC		
B	28/03/2023	BSW	IFA#2		
A	1/03/2023	BSW	IFA		
Index	Date	Author	Description		
	Date	Name	Model DWG - Biomass		Status Comment
Order	15/01/2023		Engineer	SAMPLE	Revision Date
Detailer	1/03/2023	BSW	Architect	SAMPLE	17/04/2023
Scale 1:100		@A1	Project No. T.B.C	Drawing Num. 1009	
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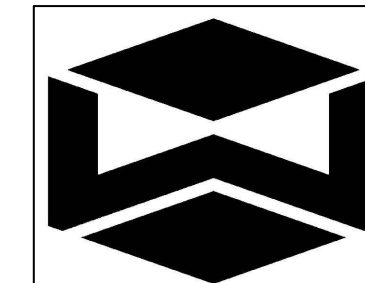
Mark	Part Name	ASM Weight
C9	250 PFC	227.74
C21	410 UB 59.7	881.49
C25	460 UB 82.1	1133.56
C26	460 UB 82.1	1150.10
C27	460 UB 82.1	1150.10
C28	460 UB 82.1	1132.09
G1	MSS300/15	63.23
G5	MSS300/15	63.23
G6	MSS200/15	12.14
G14	MSS250/18	29.07
G23	MSS300/15	27.76
G24	MSS300/15	27.98
G79	MSS250/18	81.15
G80	MSS250/18	71.25
G82	MSS250/18	71.39
RB9	Reid Brace Set RB25	0.00
RB11	RB 25	39.17



DETAIL: TYPICAL FINGER BEAM
WELD TYPE, BOLT TYPE
SCALE: 1:7.5

NOTE: TREAT ALL DETAILS AS TYPICAL

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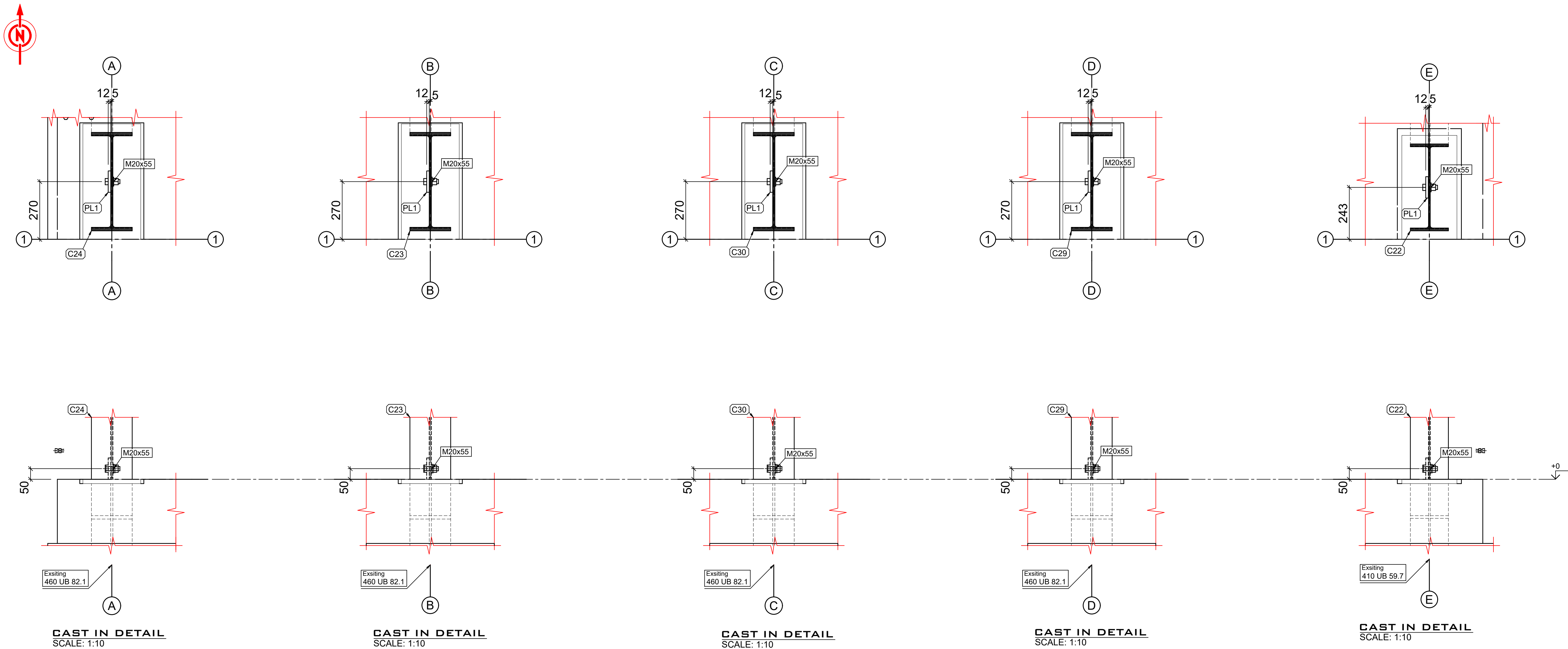


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C	17/04/2023	BSW	IFC	
B	28/03/2023	BSW	IFA#2	
A	1/03/2023	BSW	IFA	
Index	Date	Author	Description	
Order	Date	Name	Model DWG - Biomass	Status Comment
	15/01/2023		Engineer SAMPLE	Revision Date
Detailer	1/03/2023	BSW	Architect SAMPLE	17/04/2023
Scale		@A1	Project No.	Drawing Num.
1:10,1:7.5			T.B.C	1010
				
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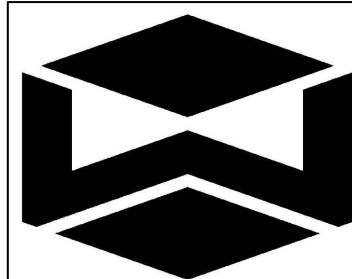
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Mark	Part Name	ASM Weight
C22	410 UB 59.7	891.01
C23	460 UB 82.1	1220.21
C24	460 UB 82.1	1228.90
C29	460 UB 82.1	1206.10
C30	460 UB 82.1	1220.21
G5	MSS300/15	63.23
G21	MSS200/15	1.91
G25	MSS200/15	29.45
G26	MSS200/15	20.77
G78	MSS250/18	80.57
G81	MSS250/18	80.64
RB3	RB 25	41.27
RB9	ReidBrace Set RB25	0.00



NOTE: TREAT ALL DETAILS AS TYPICAL

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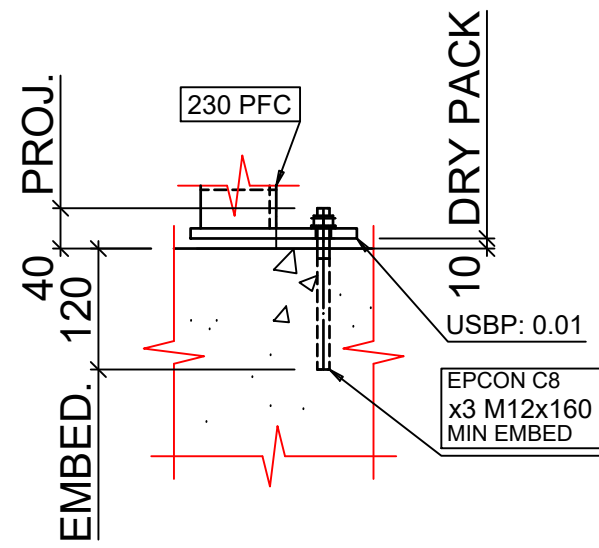
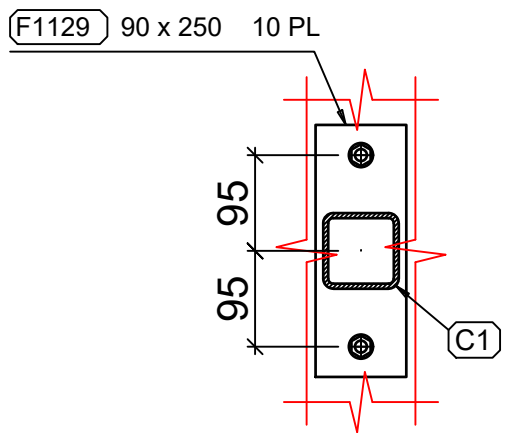
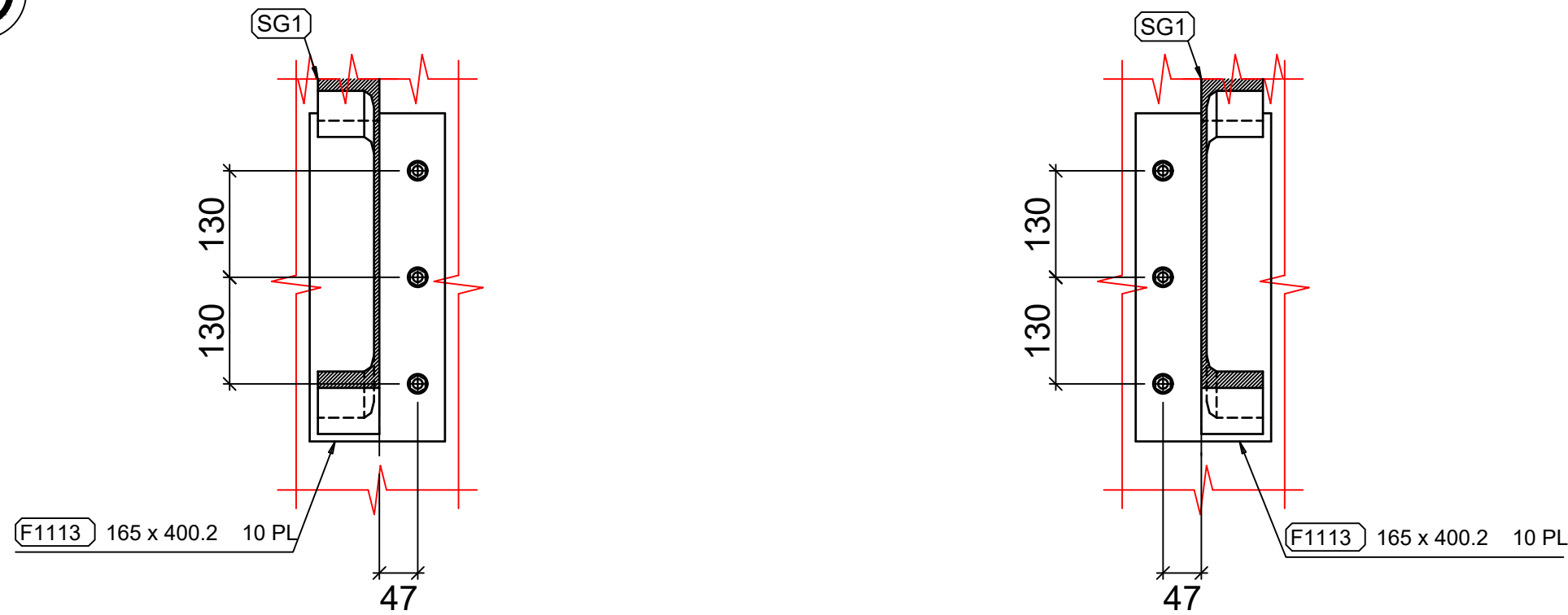
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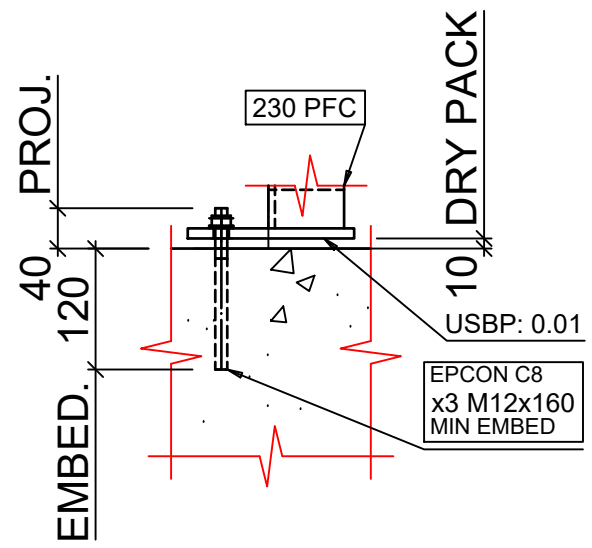
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C	17/04/2023	BSW	IFC	
B	28/03/2023	BSW	IFA#2	
A	1/03/2023	BSW	IFA	
Index	Date	Author	Description	
Order	Date	Name	Model DWG - Biomass	Status Comment
Order	15/01/2023	Engineer	SAMPLE	Revision Date
Detailer	1/03/2023	BSW	Architect	SAMPLE 17/04/2023
Scale	1:10	@A1	Project No. T.B.C	Drawing Num. 1011
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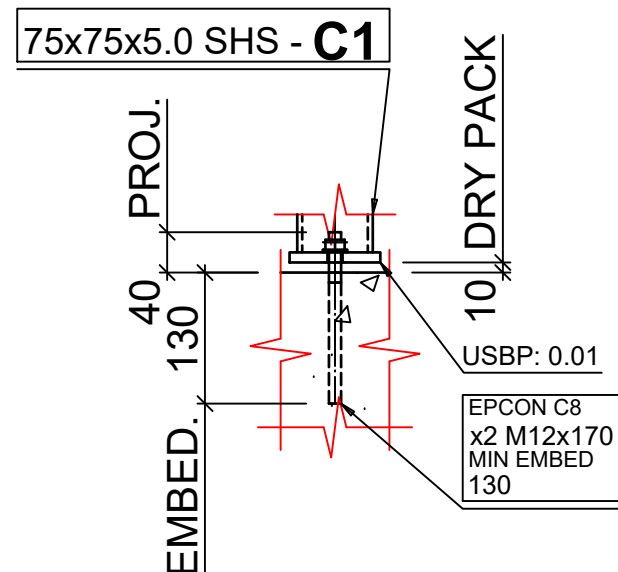
Mark	MainPart of Assembly	ASM Weight
C1	75x75x5.0 SHS	25.02
C20	360 UB 56.7	723.18
C31	530 UB 82.0	1009.33
C32	530 UB 82.0	1017.83
C33	530 UB 82.0	1004.89
C34	530 UB 82.0	1013.39
G52	MSS250/18	56.73
SG1	230 PFC	595.18



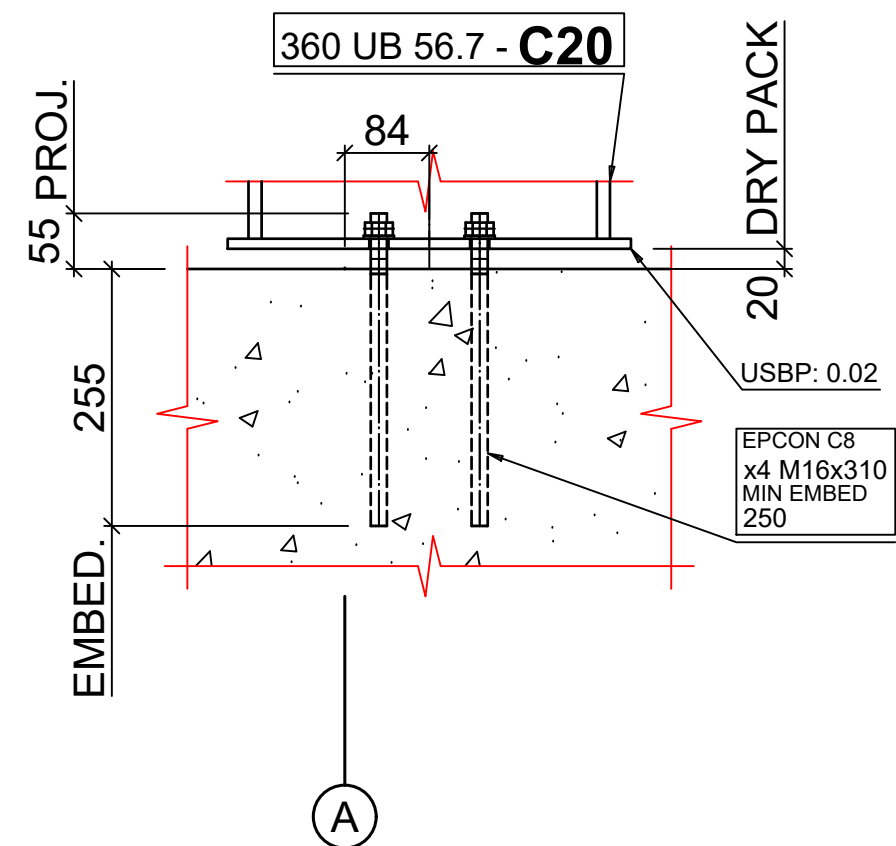
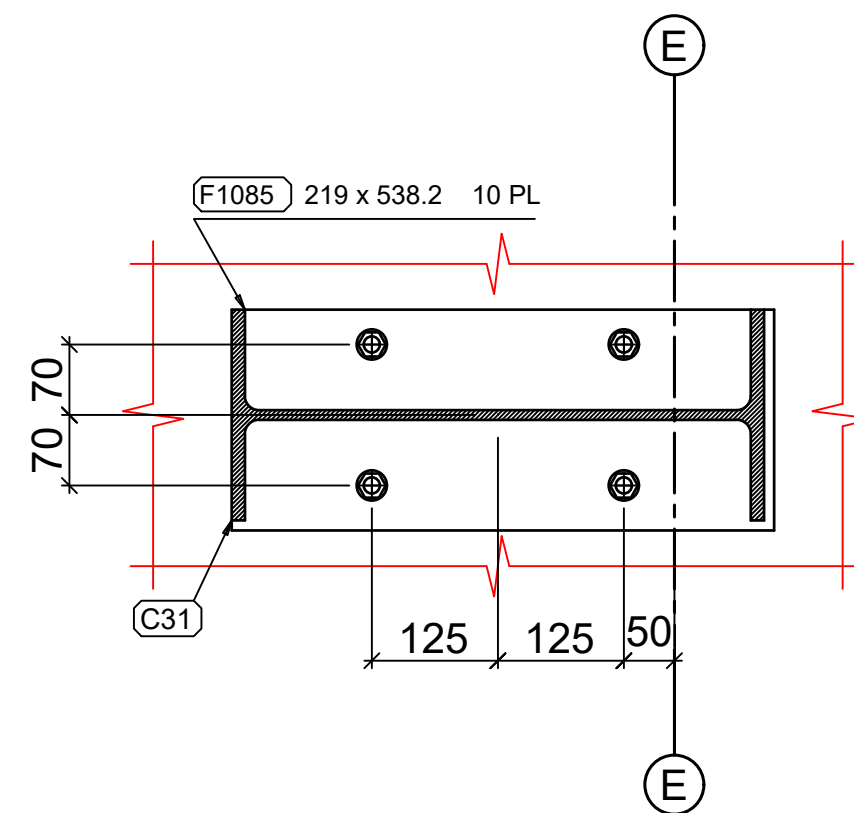
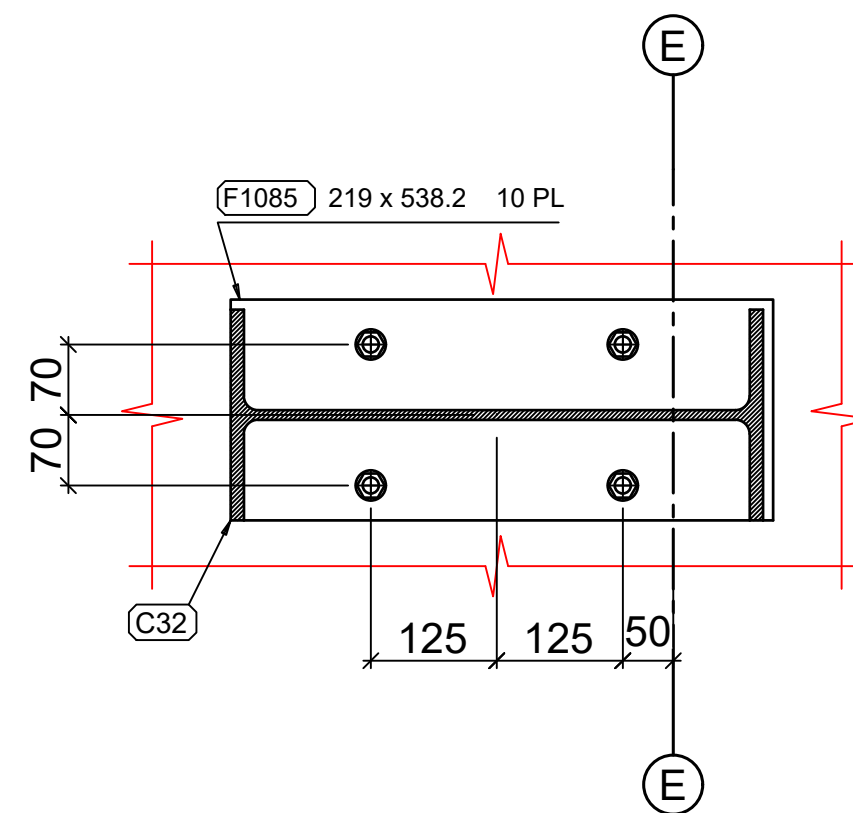
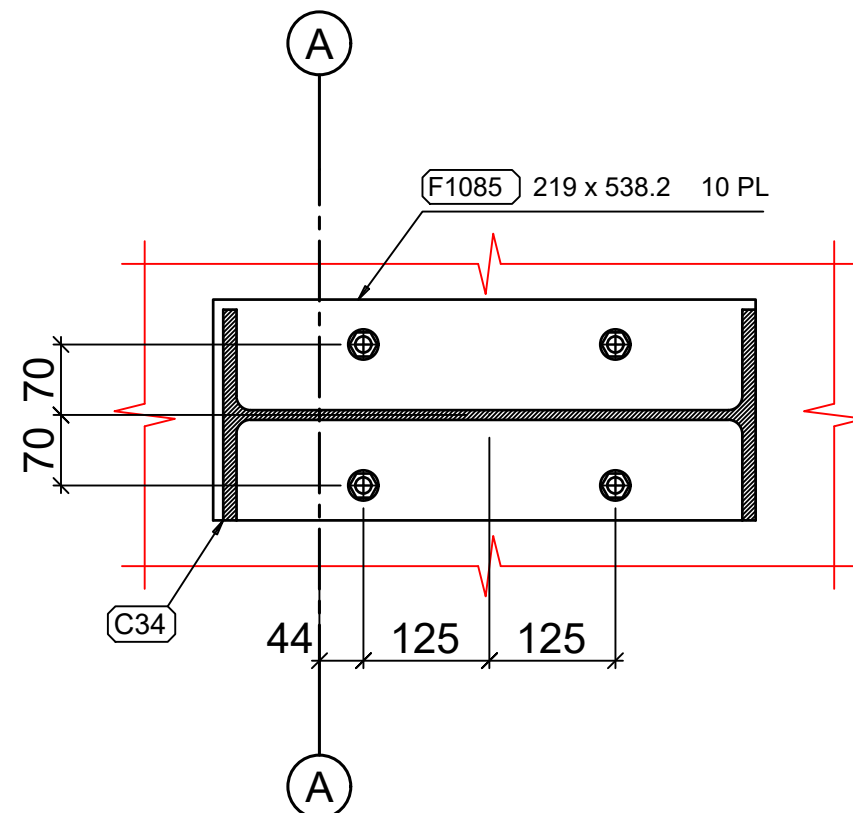
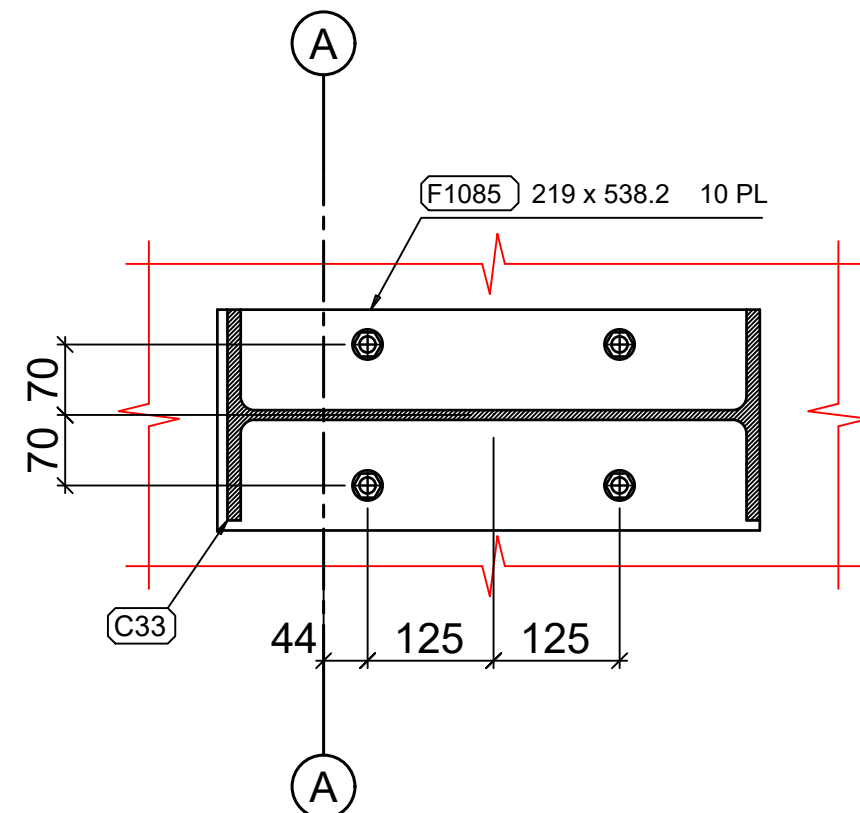
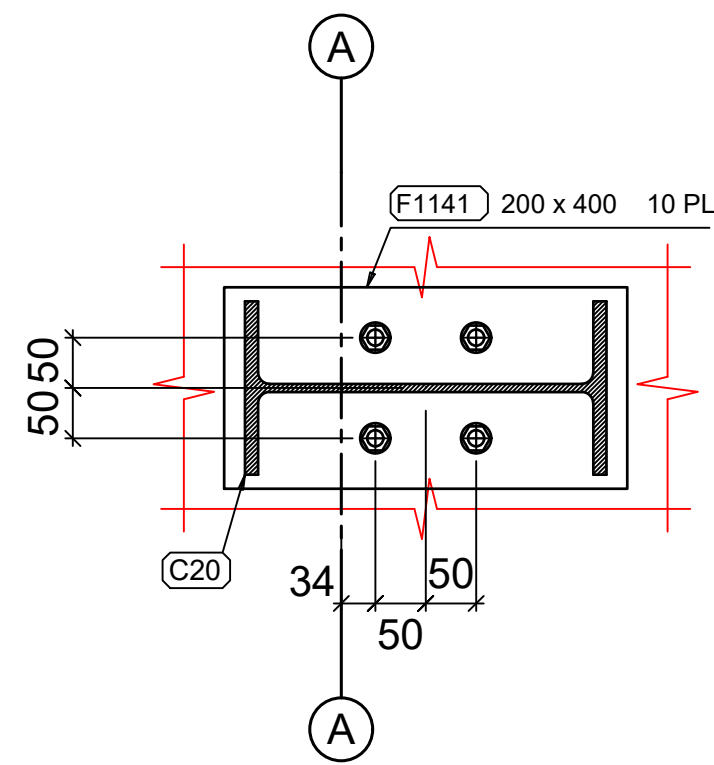
ANCHOR DETAIL
SCALE: 1:7.5



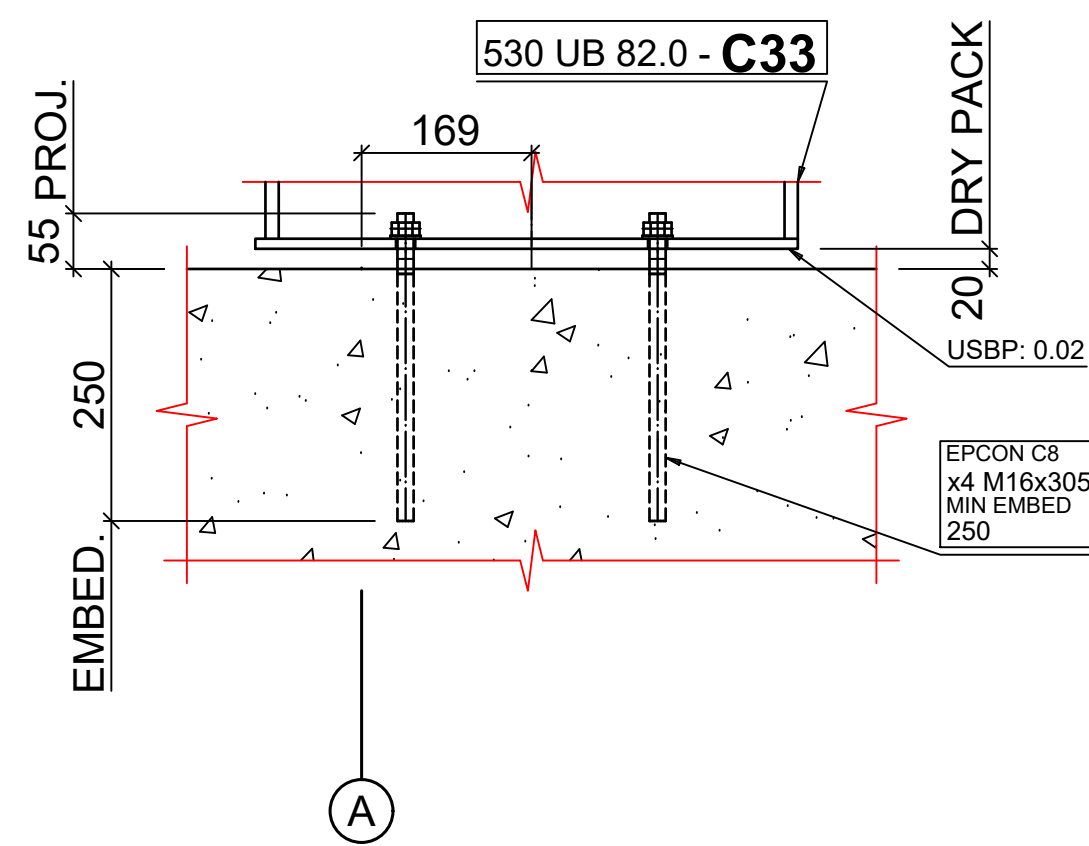
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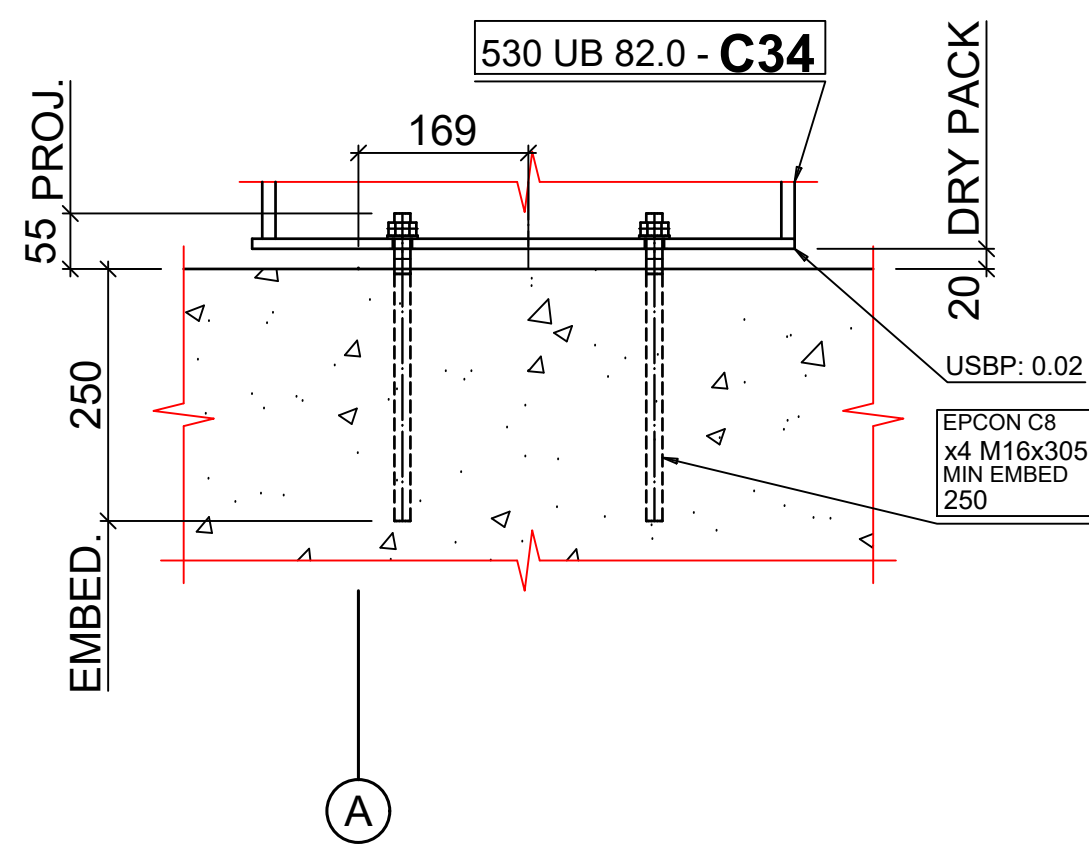
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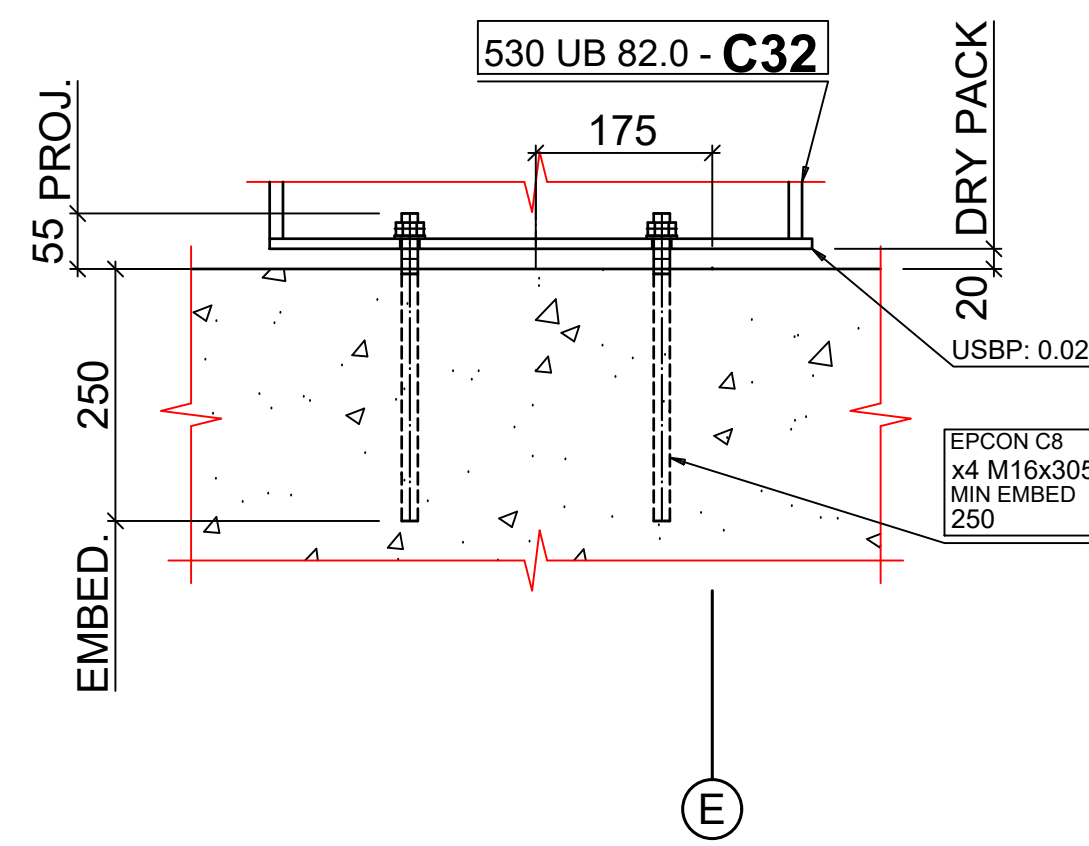
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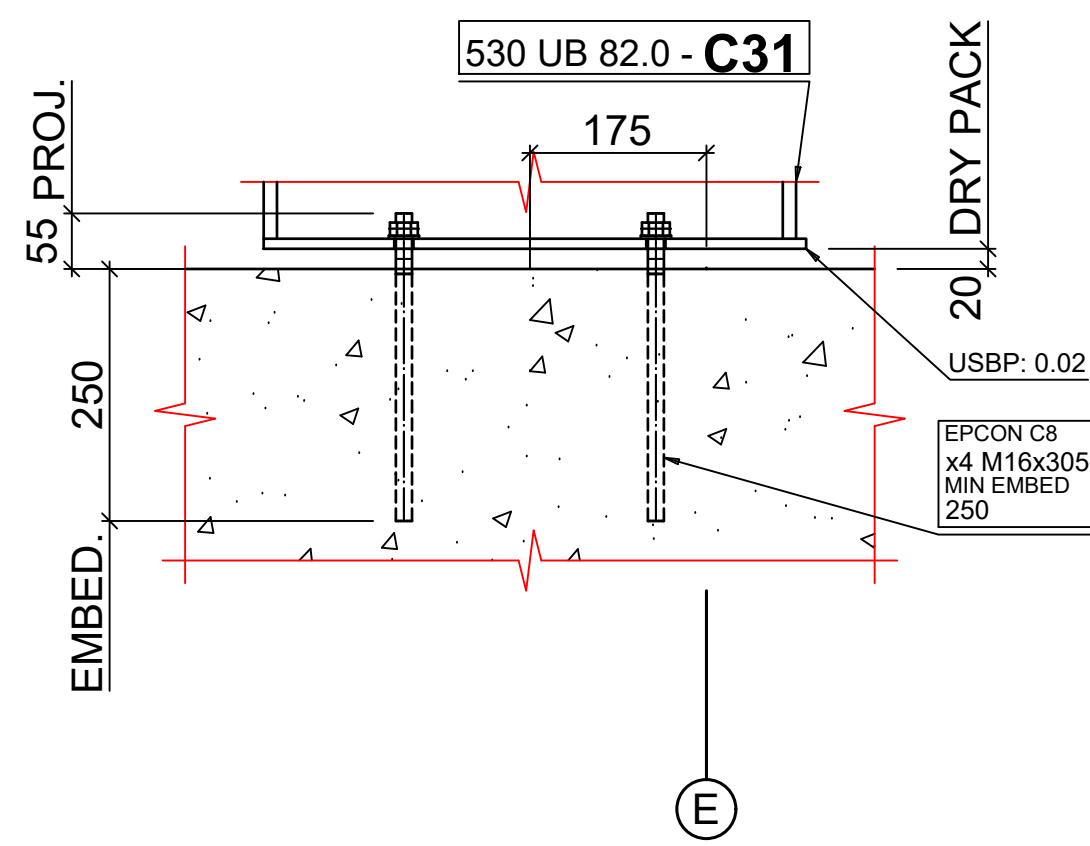
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ANCHOR DETAIL
SCALE: 1:7.5



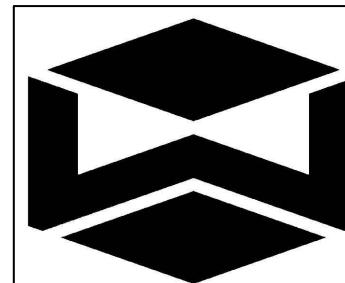
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ANCHOR DETAIL
SCALE: 1:7.5

NOTE: TREAT ALL DETAILS AS TYPICAL

ALL TIMBER & CONCRETE ONLY DRAWN AS REFERENCE - REFER TO ARCHITECTS & ENGINEERS PLANS FOR FURTHER DETAILS



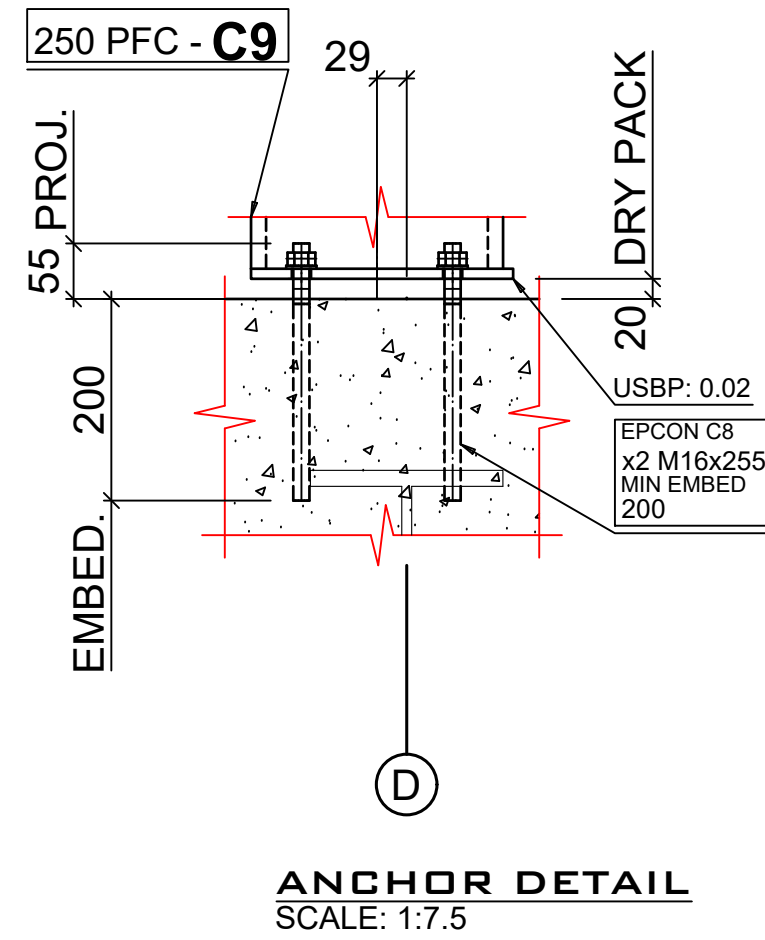
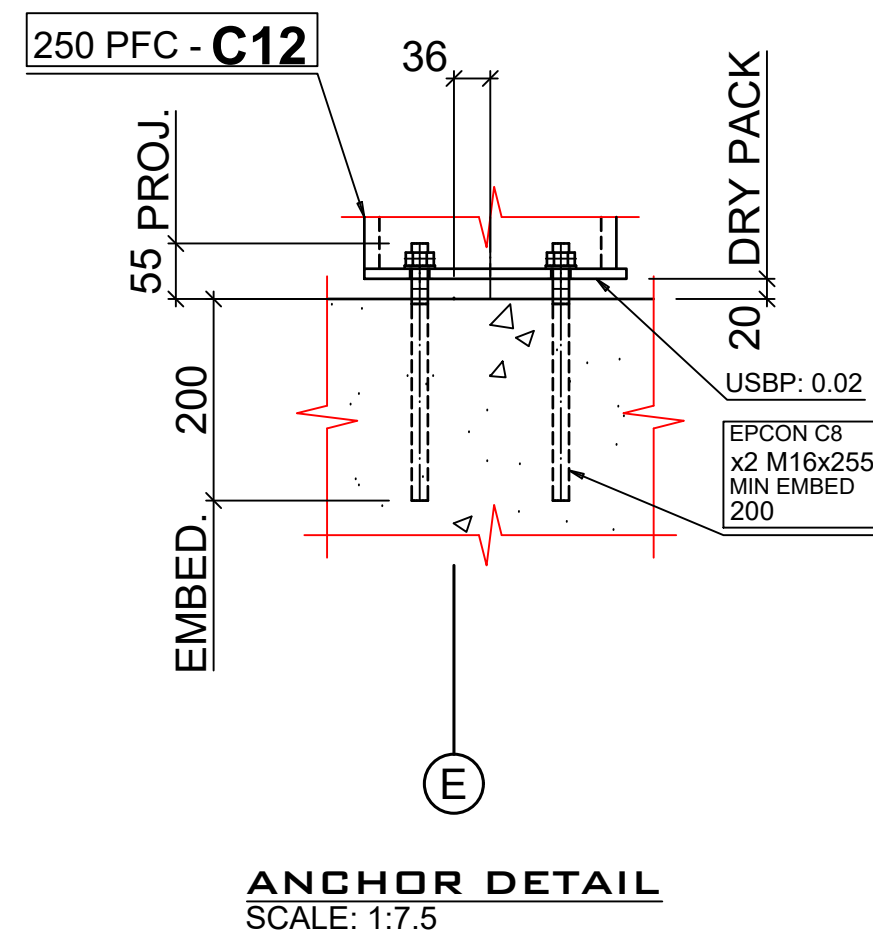
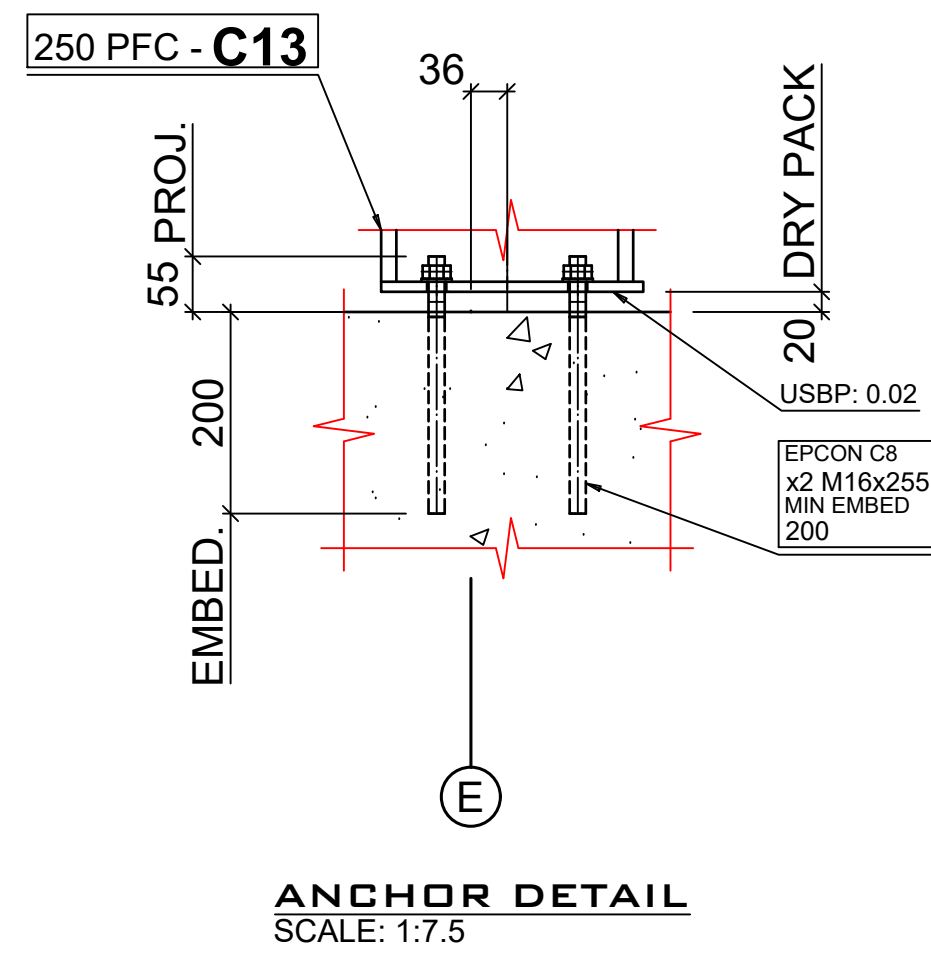
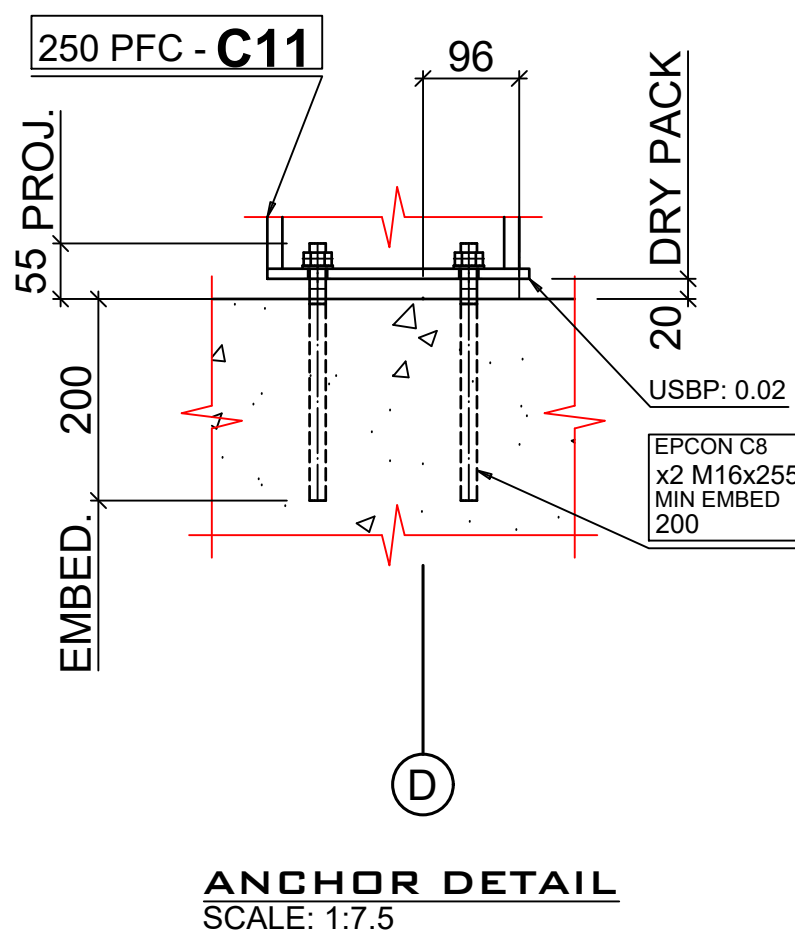
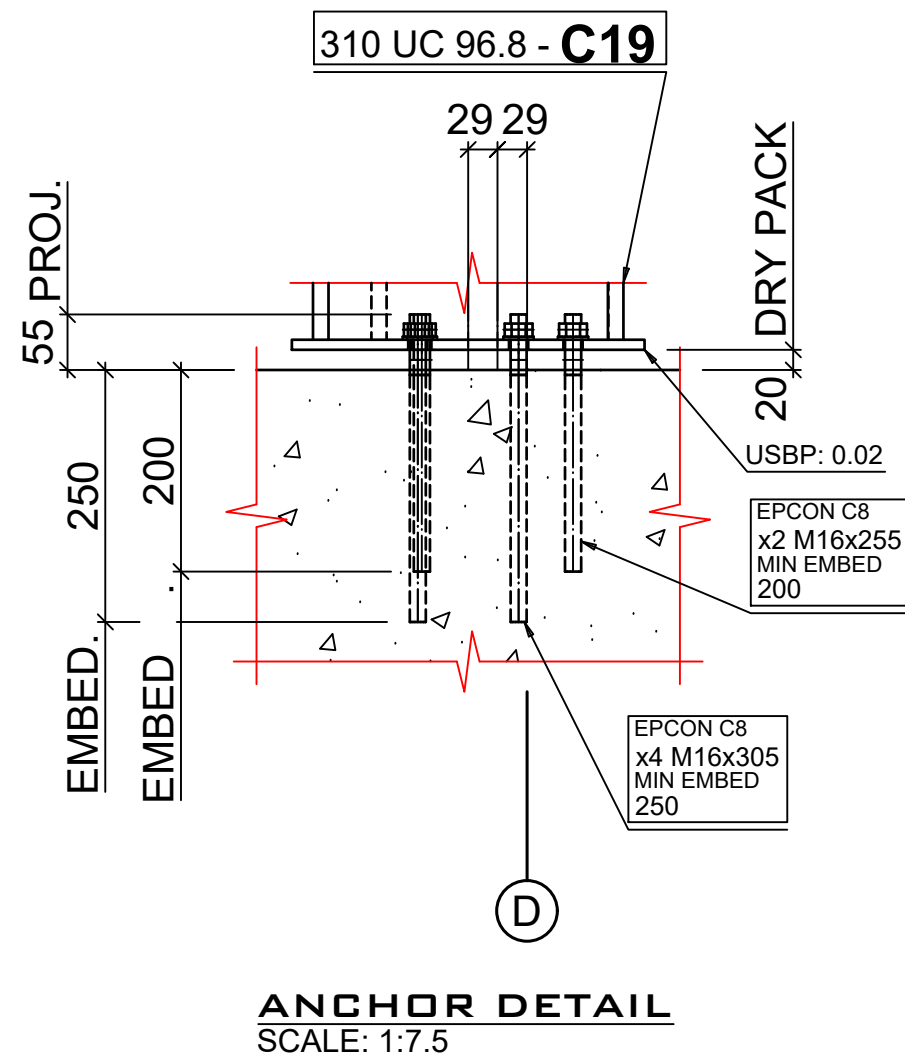
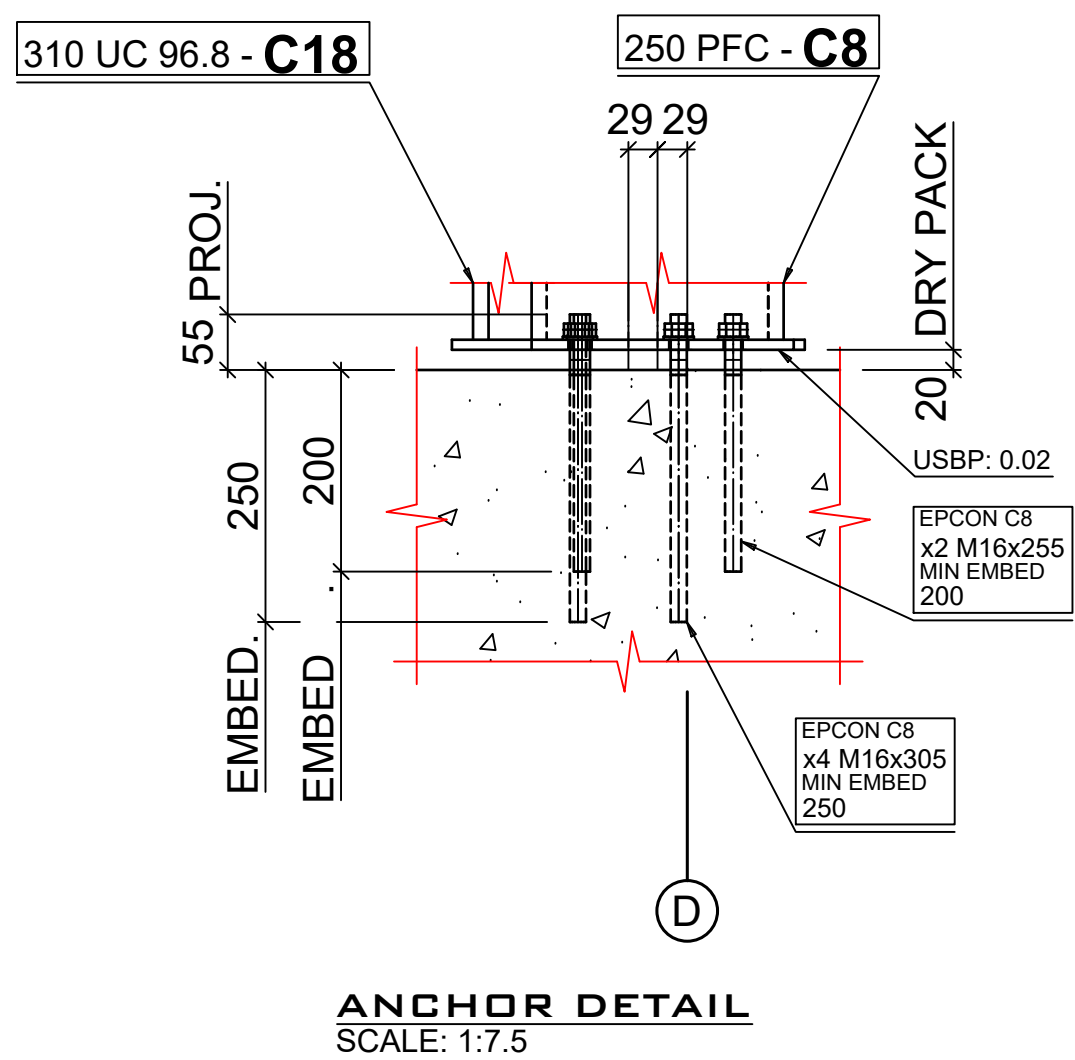
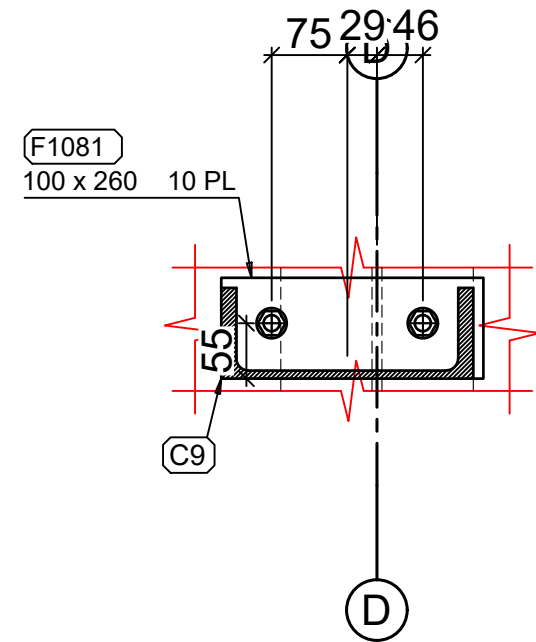
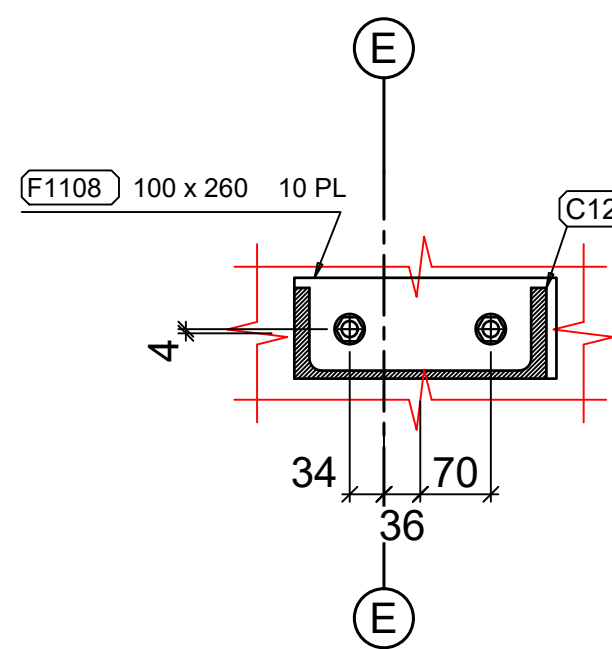
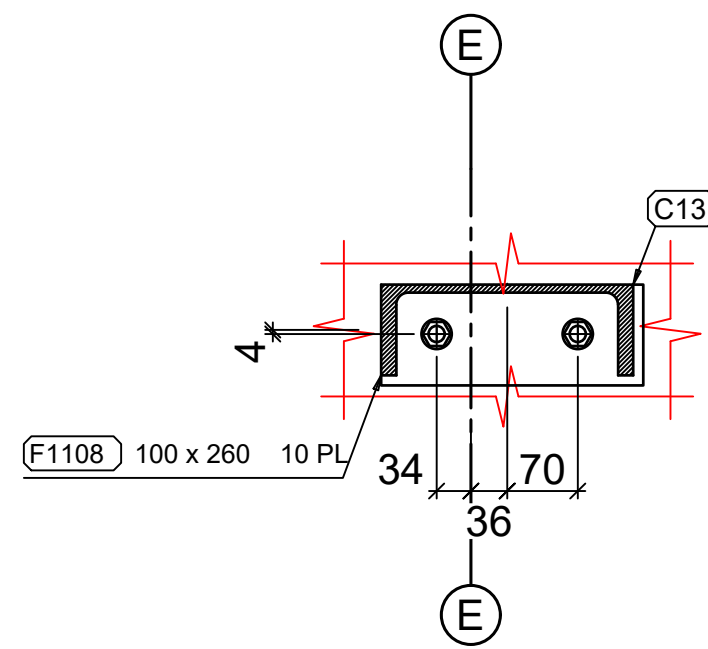
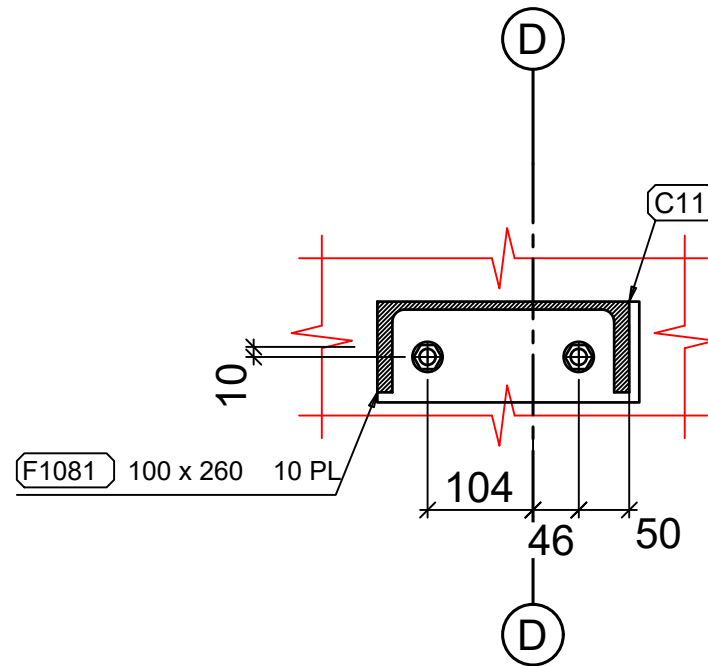
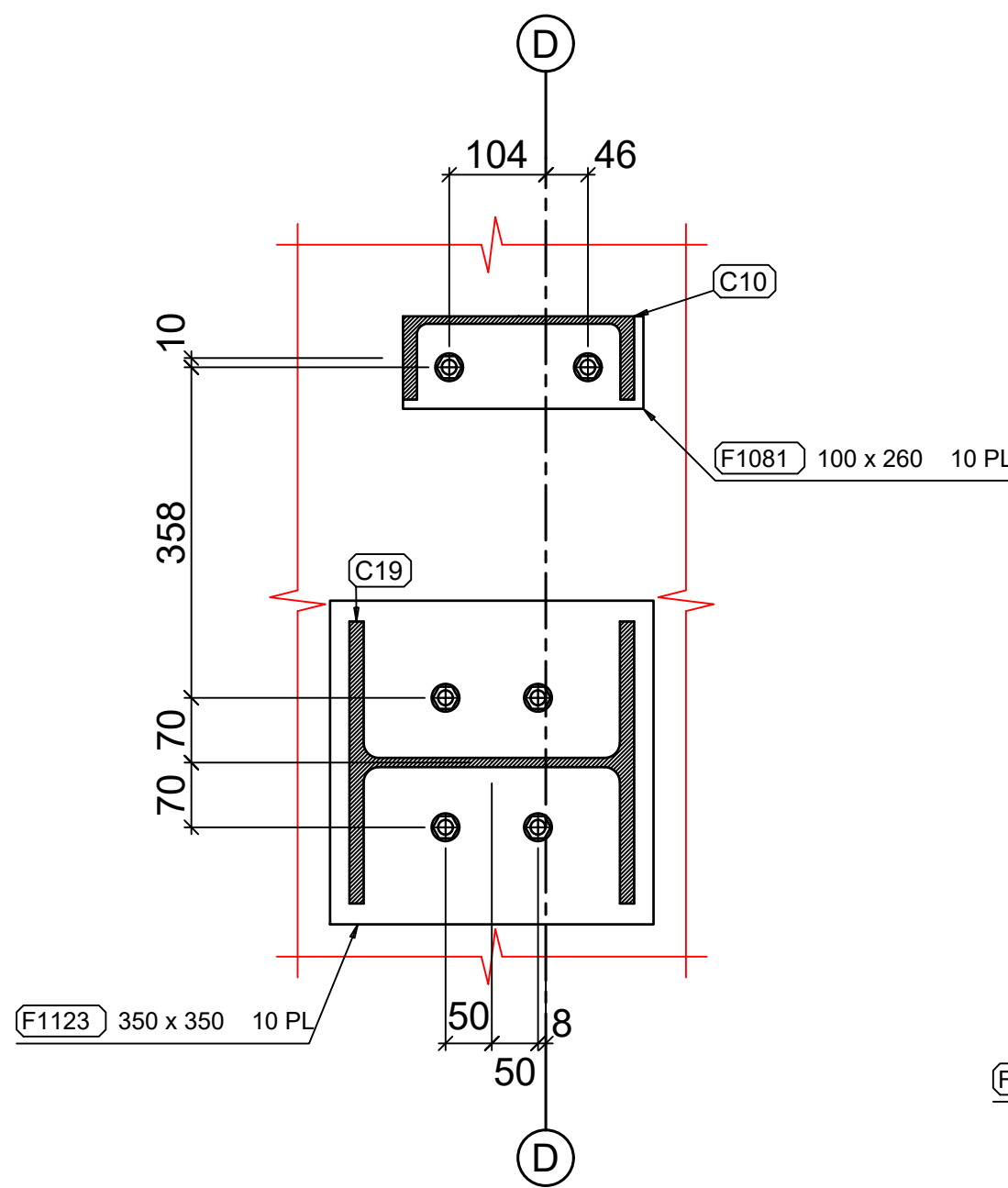
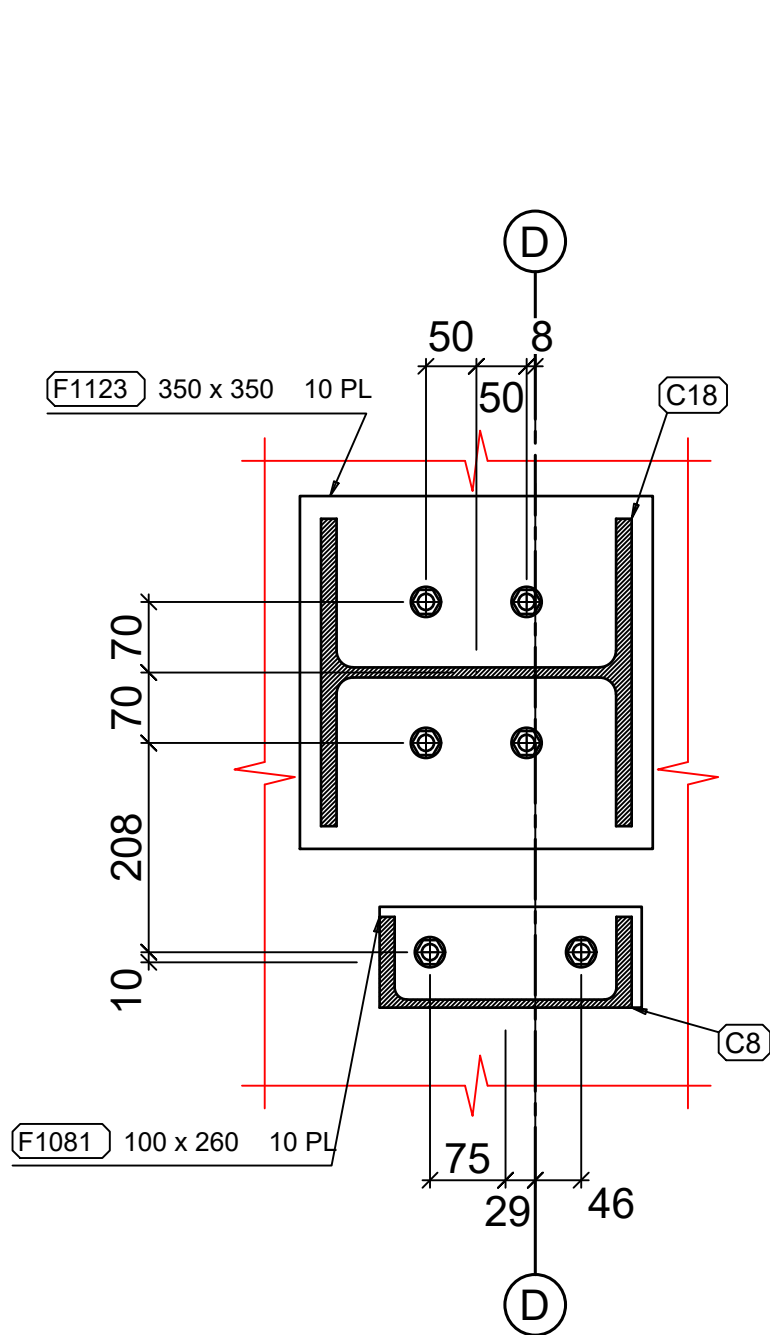
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C	17/04/2023	BSW	IFC		
B	28/03/2023	BSW	IFA#2		
A	1/03/2023	BSW	IFA		
Index	Date	Author	Description		
	Date	Name	Model DWG - Biomass	Status Comment	
Order	15/01/2023		Engineer	SAMPLE	Revision Date
Detailer	1/03/2023	BSW	Architect	SAMPLE	17/04/2023
Scale		@A1	Project No.	Drawing Num.	
1:7.5			T.B.C	1012	
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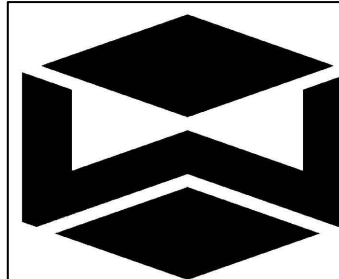
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Mark	MainPart of Assembly	ASM Weight
C3	250 PFC	133.38
C9	250 PFC	227.74
C10	250 PFC	227.74
C11	250 PFC	144.24
C12	250 PFC	116.43
C13	250 PFC	116.43
C18	310 UC 96.8	1097.59
C19	310 UC 96.8	1067.38
C25	460 UB 82.1	1133.56



NOTE: TREAT ALL DETAILS AS TYPICAL

ALL TIMBER & CONCRETE ONLY DRAWN AS REFERENCE - REFER TO ARCHITECTS & ENGINEERS PLANS FOR FURTHER DETAILS

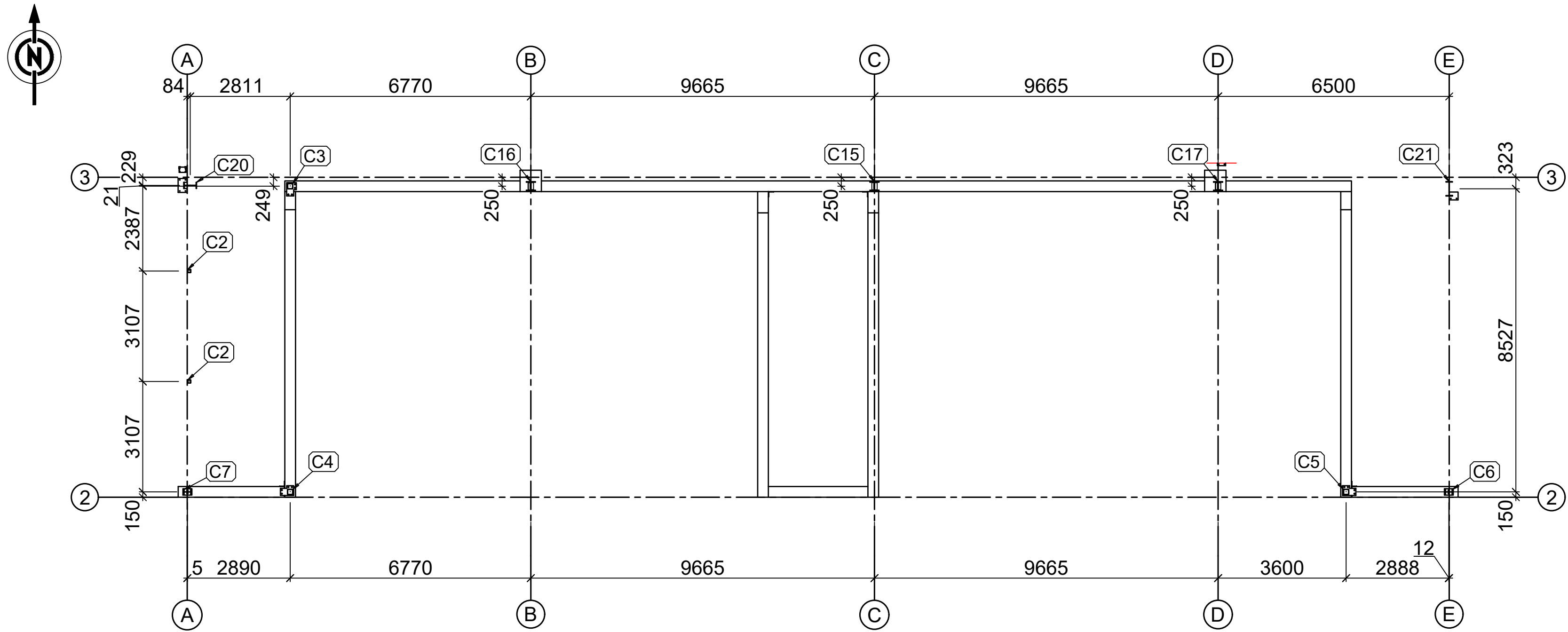


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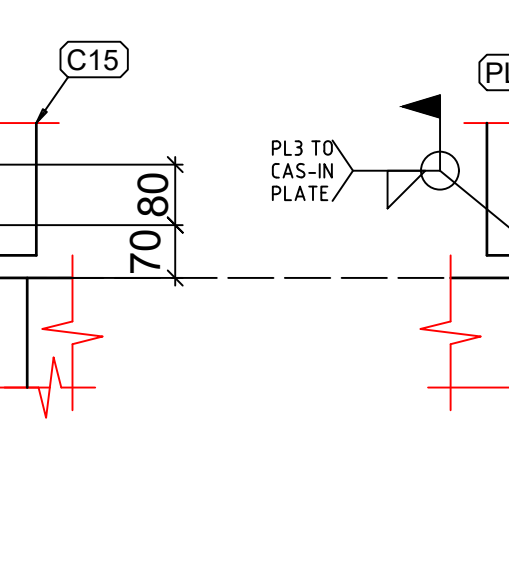
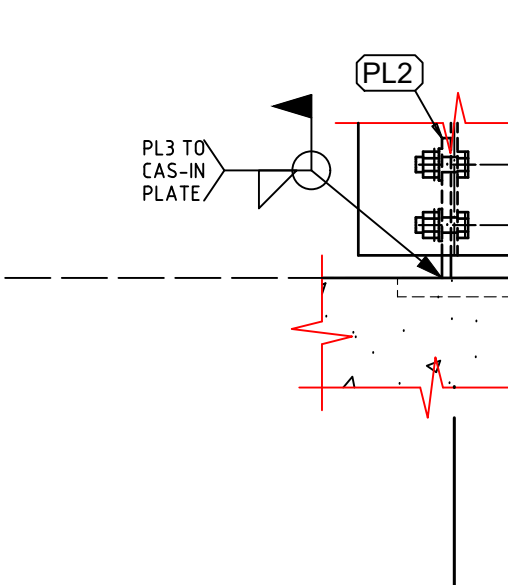
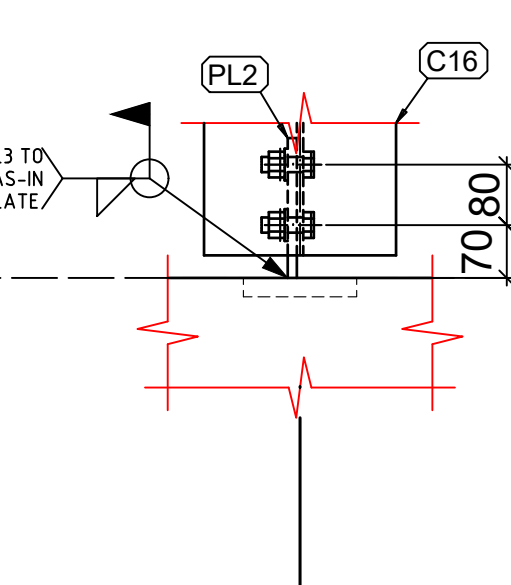
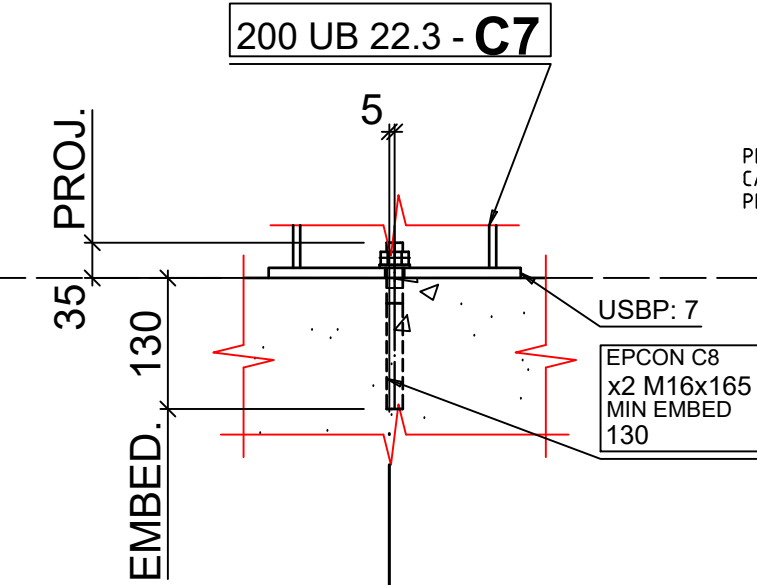
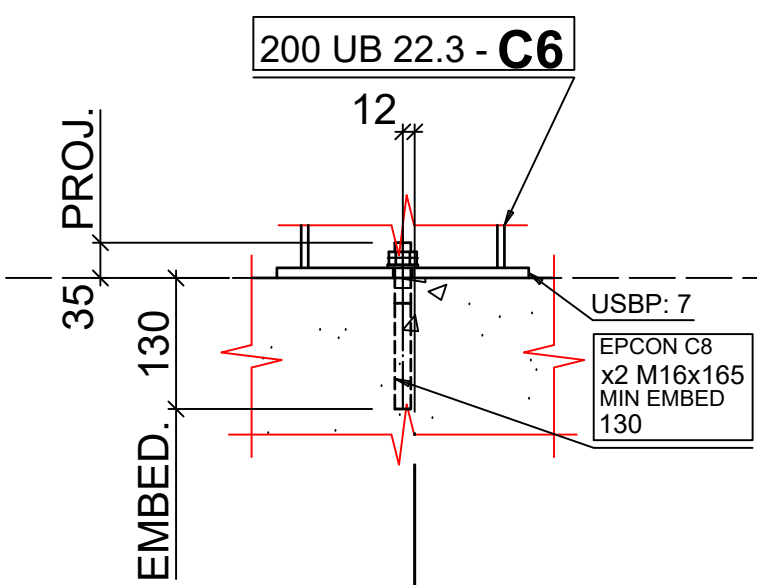
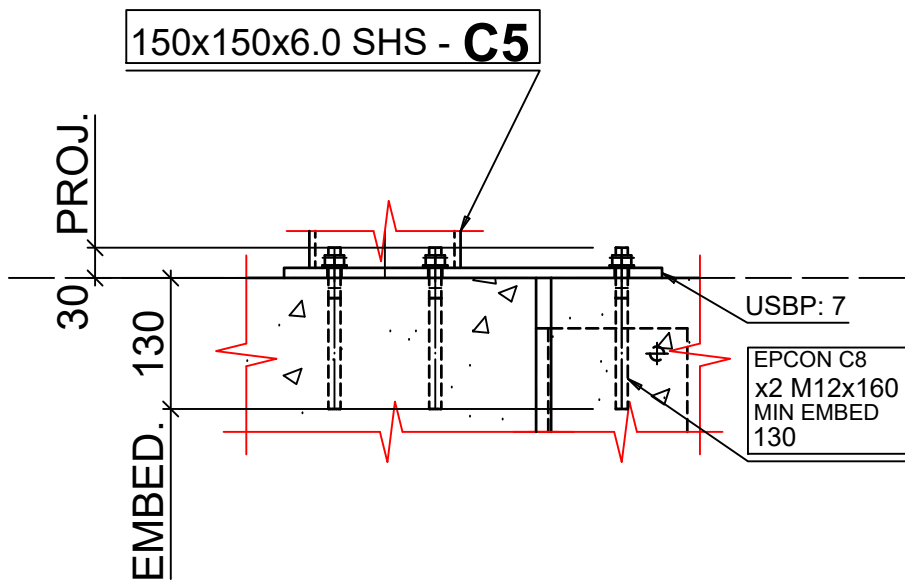
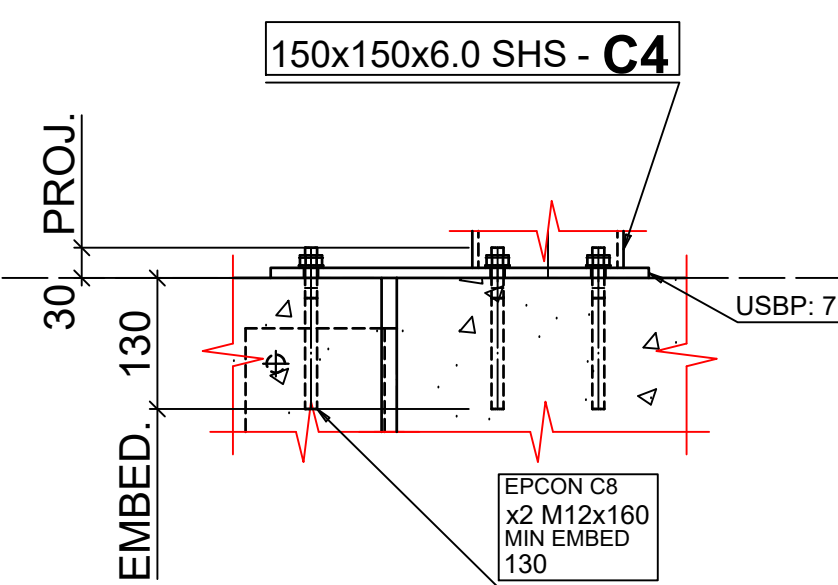
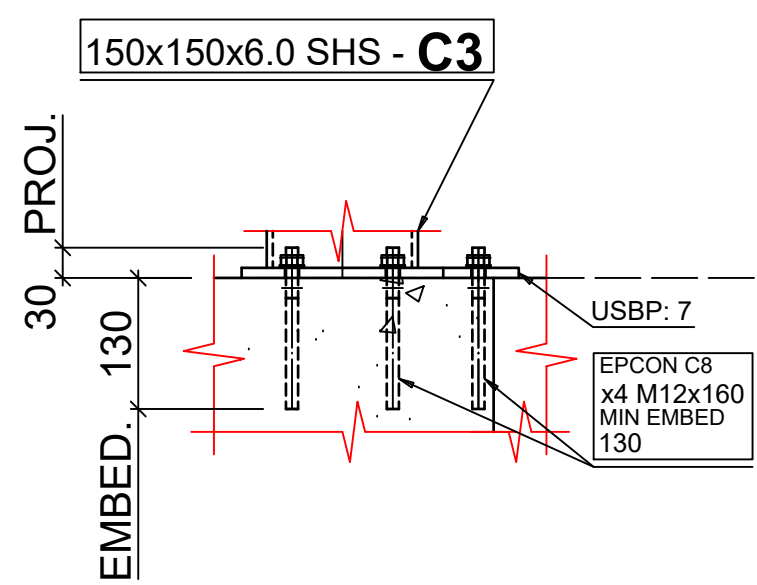
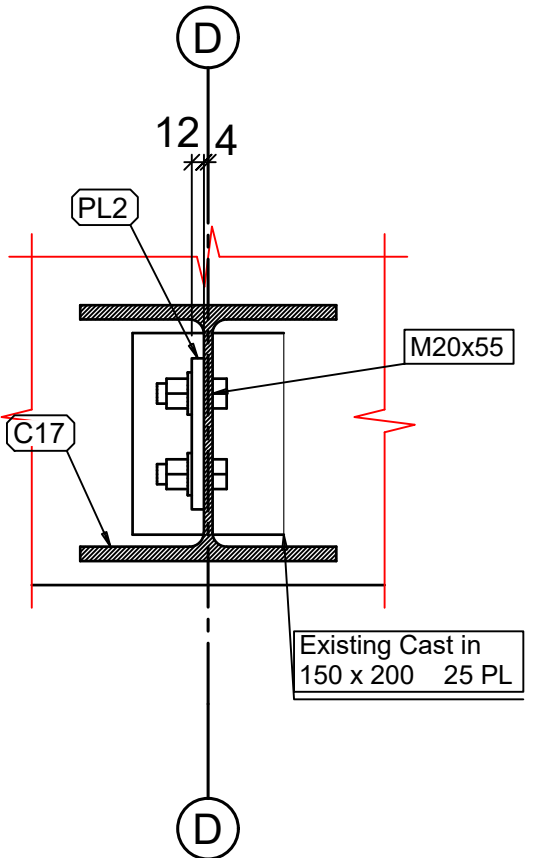
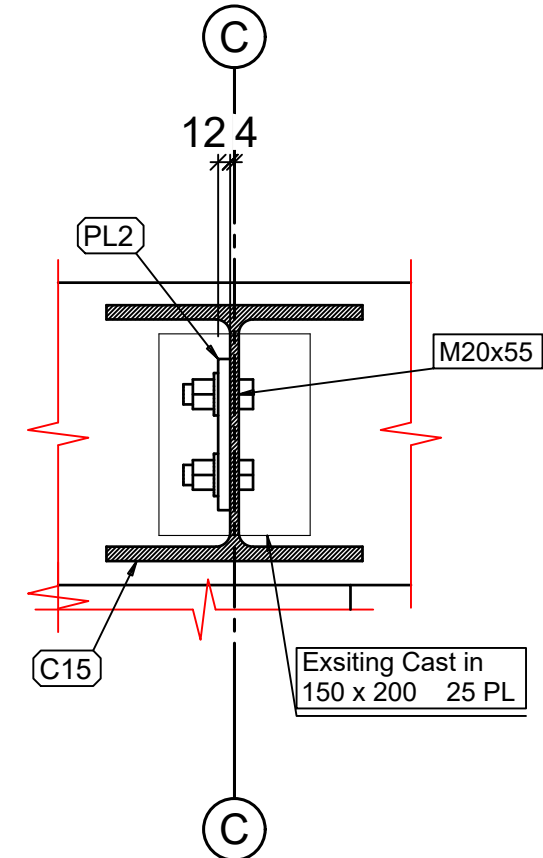
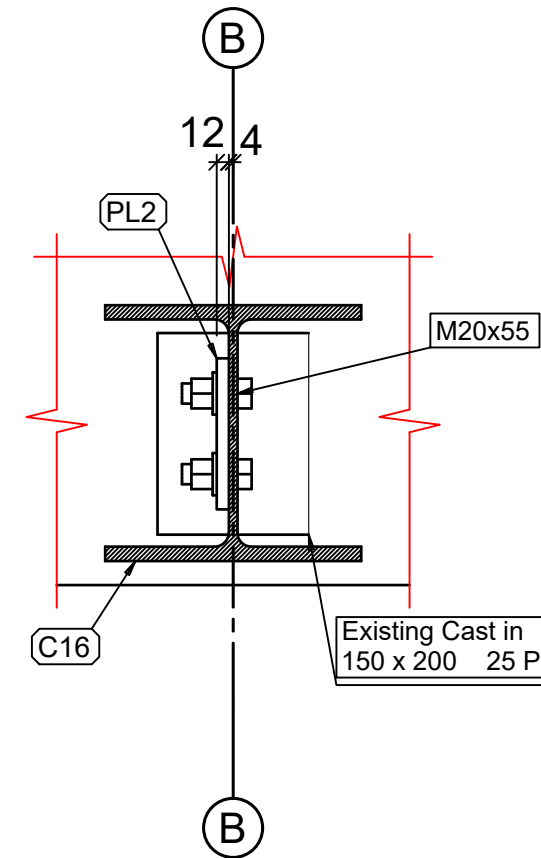
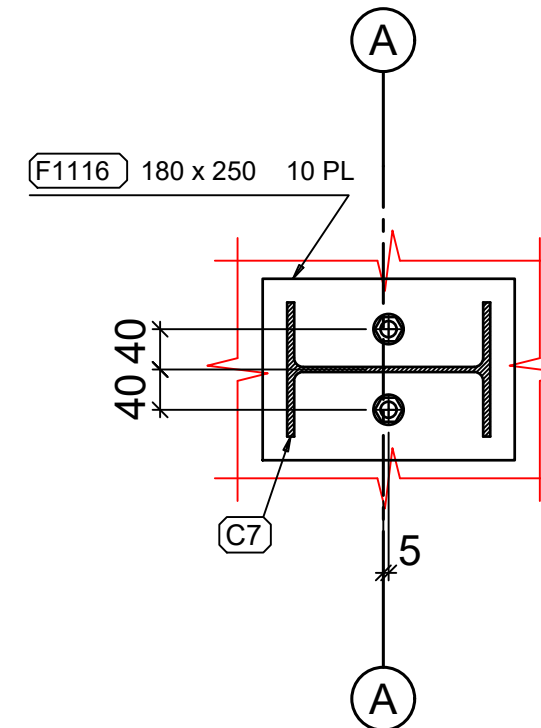
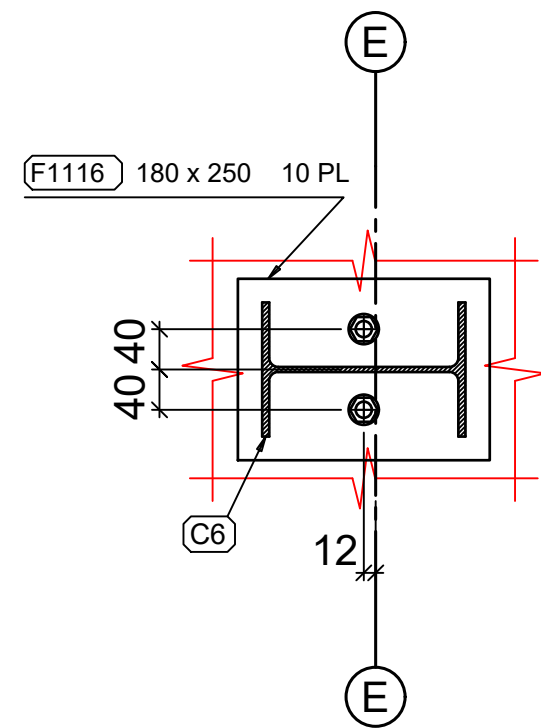
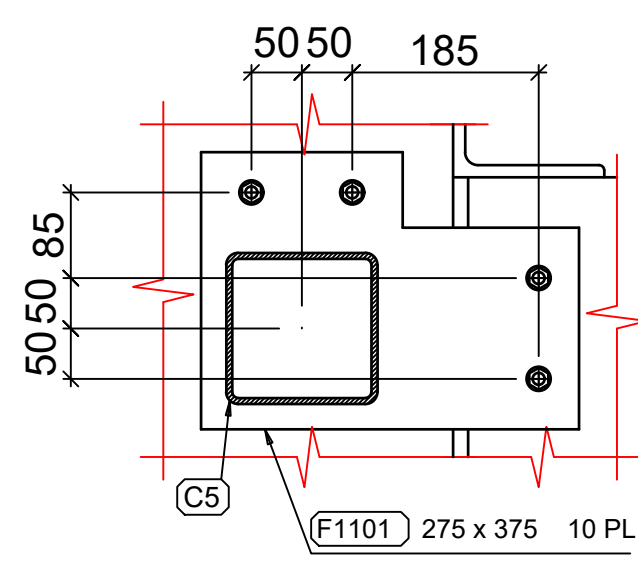
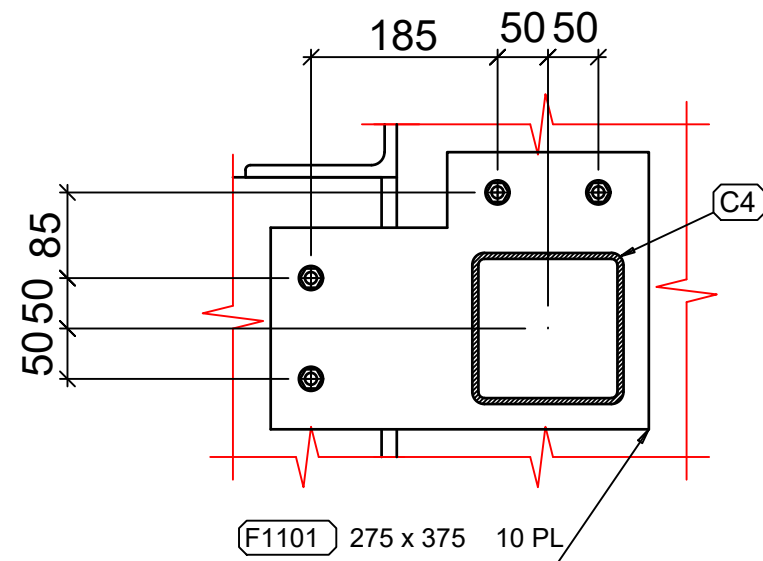
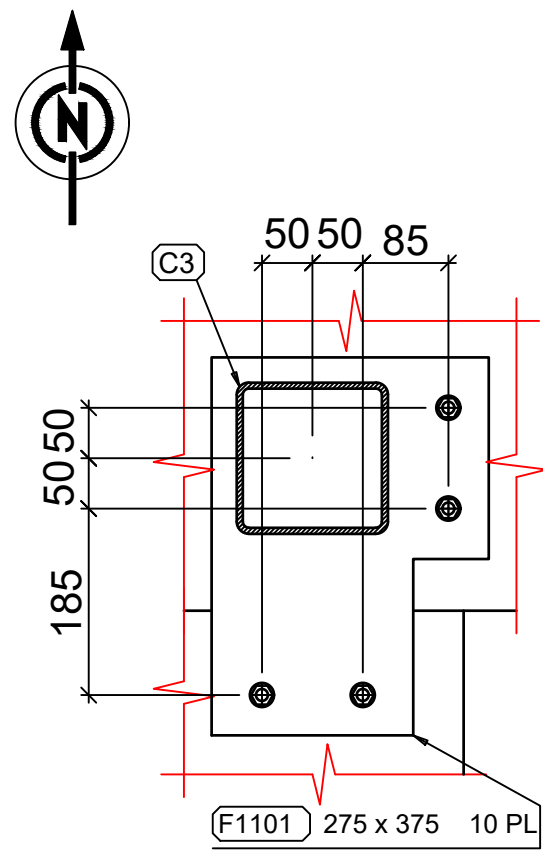
P: 022 306 7505
E: BRAD@3DCAD.CO.NZ
W: 3DCAD.CO.NZ

C	17/04/2023	BSW	IFC
B	28/03/2023	BSW	IFA#2
A	1/03/2023	BSW	IFA
Index	Date	Author	Description
	Date	Name	Model DWG - Biomass
Order	15/01/2023	Engineer	SAMPLE
Detailer	17/04/2023	BSW	Architect
Scale		@A1	Project No.
1:7.5			T.B.C
			Drawing Num.
			1013
			C
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Mark	MainPart of Assembly	ASM Weight
5	STD METAL CRAFT BRIDGE	3.58
9	STD METAL CRAFT BRIDGE	3.58
34	STD METAL CRAFT BRIDGE	6.45
C2	89x89x3.5 SHS	27.80
C3	150x150x6.0 SHS	133.21
C4	150x150x6.0 SHS	150.65
C5	150x150x6.0 SHS	150.79
C6	200 UB 22.3	130.87
C7	200 UB 22.3	131.05
C15	250 UC 72.9	697.56
C16	250 UC 72.9	697.56
C17	250 UC 72.9	700.87
C20	360 UB 56.7	723.18
C21	410 UB 59.7	881.49
C32	530 UB 82.0	1017.83
C34	530 UB 82.0	1013.39
G8	MSS250/18	56.73
G12	MSS200/15	43.94
G15	MSS250/18	55.29
G22	MSS250/18	2.27
G34	MSS250/18	19.48
G46	MSS200/15	30.63
G79	MSS250/18	81.15
G89	MSS250/18	50.01
G92	MSS250/18	50.01
G99	MSS300/15	41.89
PA1	150x150x12 EA	4.02



BASEPLATE LAYOUT
COLUMN CENTERS & MAIN PART NUMBER
SCALE: 1:100
RL: +7mtr



ANCHOR DETAIL
SCALE: 1:7.5

ANCHOR DETAIL
SCALE: 1:7.5

ANCHOR DETAIL
SCALE: 1:7.5

ANCHOR DETAIL
SCALE: 1:7.5

ANCHOR DETAIL
SCALE: 1:7.5

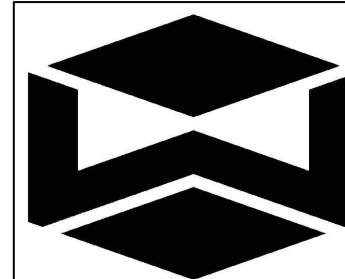
CAST IN DETAIL
SCALE: 1:10

CAST IN DETAIL
SCALE: 1:10

CAST IN DETAIL
SCALE: 1:10

NOTE: TREAT ALL DETAILS AS TYPICAL

ALL TIMBER & CONCRETE ONLY DRAWN AS REFERENCE - REFER TO ARCHITECTS & ENGINEERS PLANS FOR FURTHER DETAILS

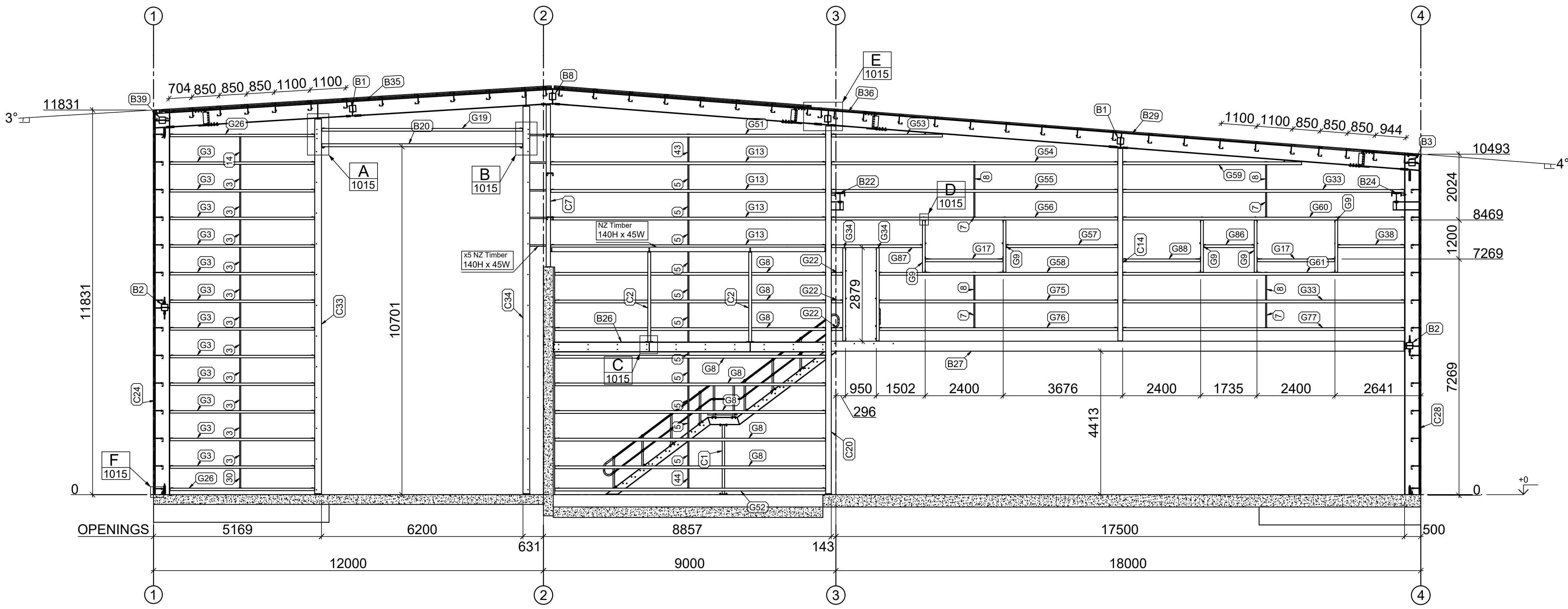


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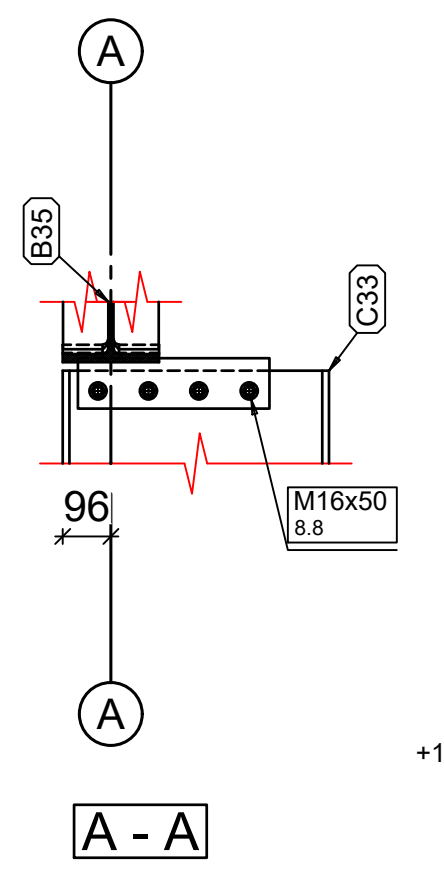
P: 022 306 7505
E: BRAD@3DCAD.CO.NZ
W: 3DCAD.CO.NZ

Index	Date	Author	Description	Status	Comment
C	17/04/2023	BSW	IFC		
B	28/03/2023	BSW	IFR#2		
A	1/03/2023	BSW	IFA		
Order	15/01/2023	Engineer	SAMPLE	Revision	Date
Detailer	1/03/2023	BSW	Architect	SAMPLE	17/04/2023
Scale	1:10, 1:100, 1:7.5	@A1	Project No.	T.B.C	Drawing Num.
					1014

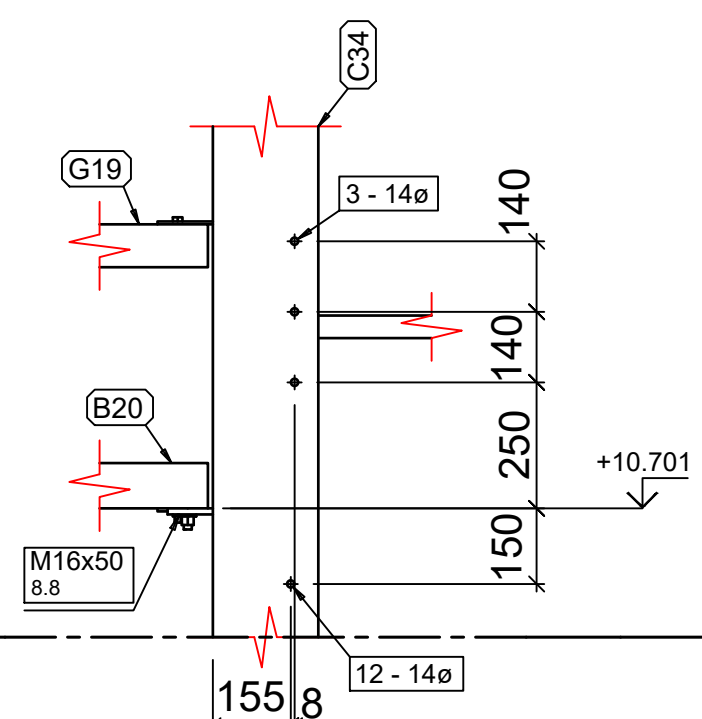
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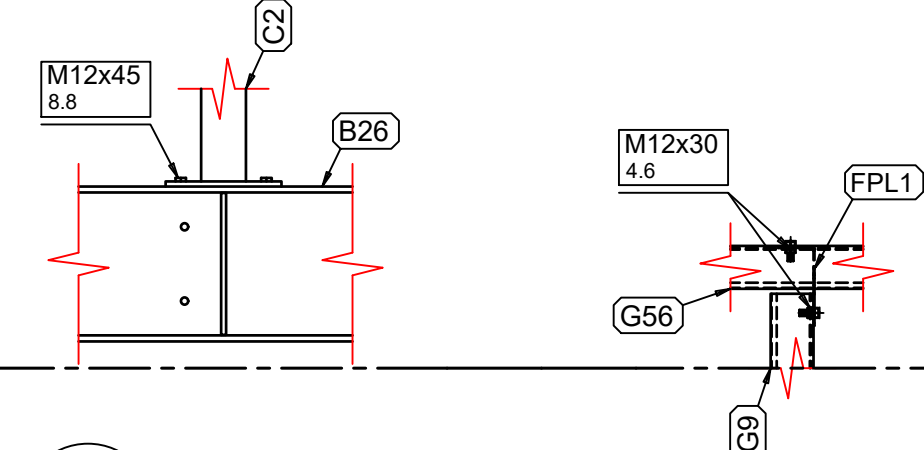
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BOLT TYPE & MAIN PART NUMBER
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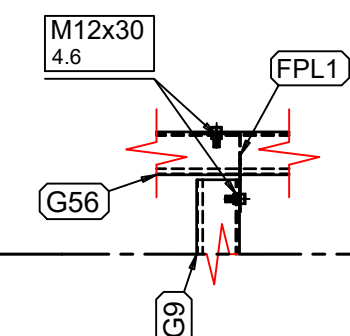
A DETAIL
1015 Scale: 1:15
C31 SIM



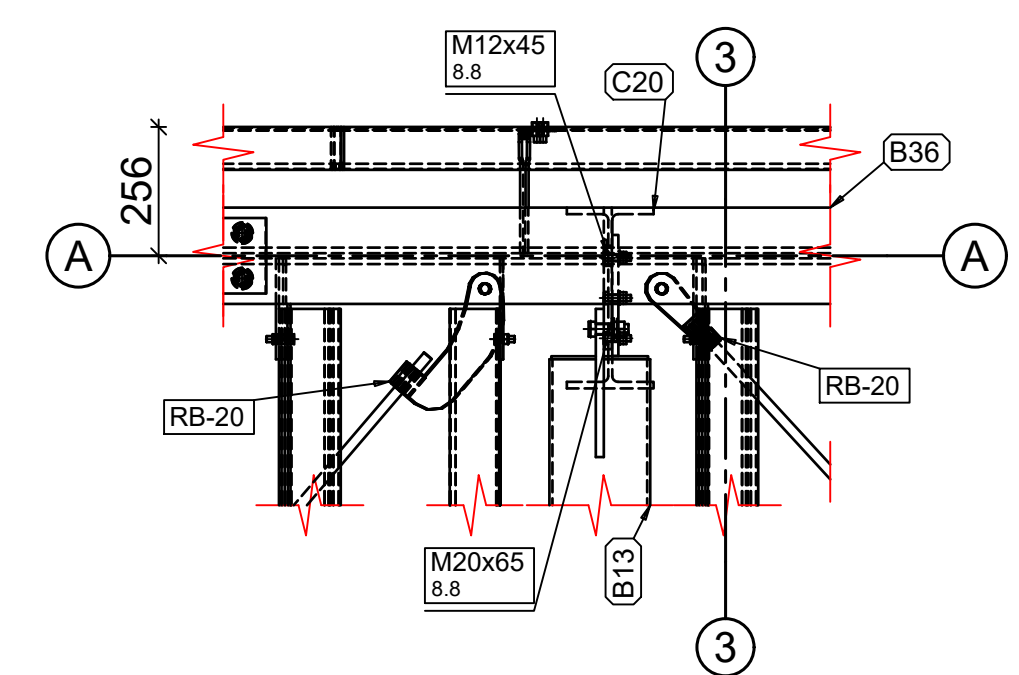
B DETAIL
1015 Scale: 1:15
C32 SIM



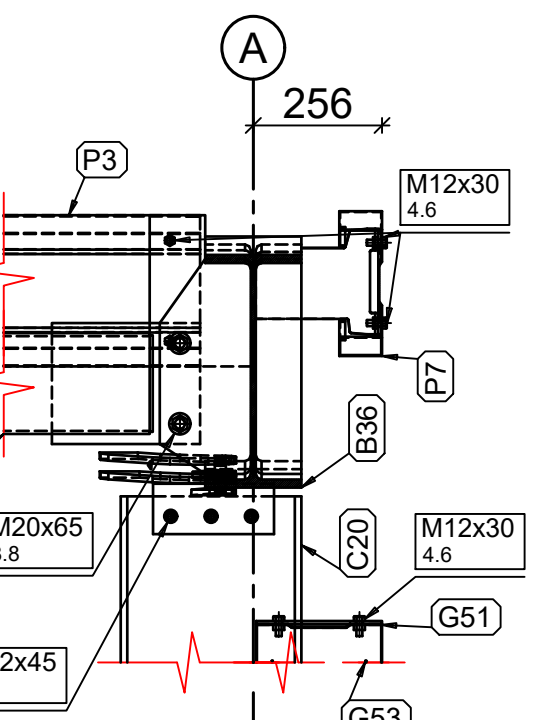
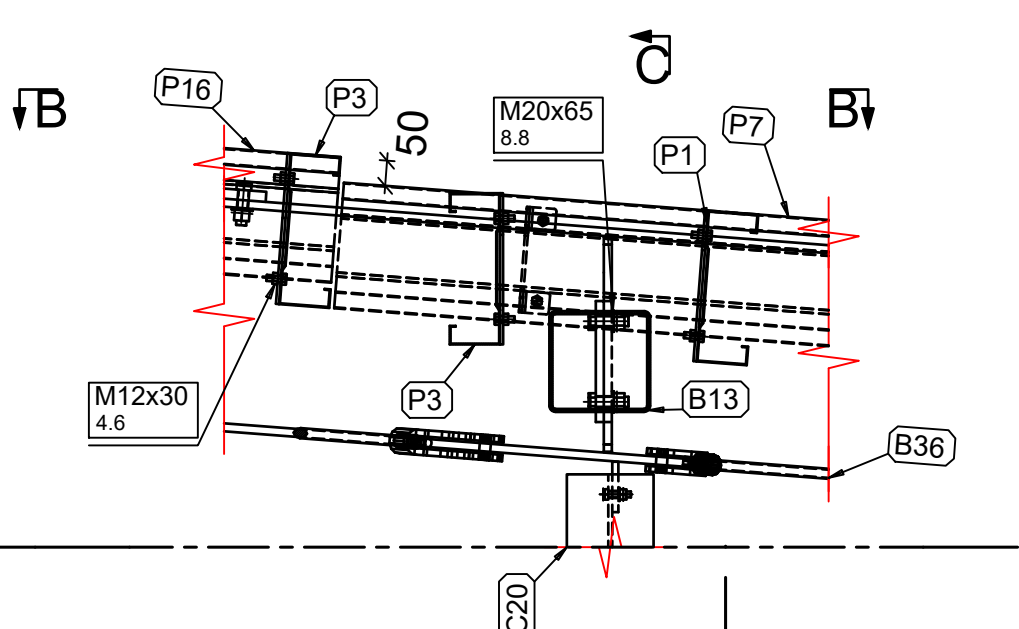
C DETAIL
1015 Scale: 1:15



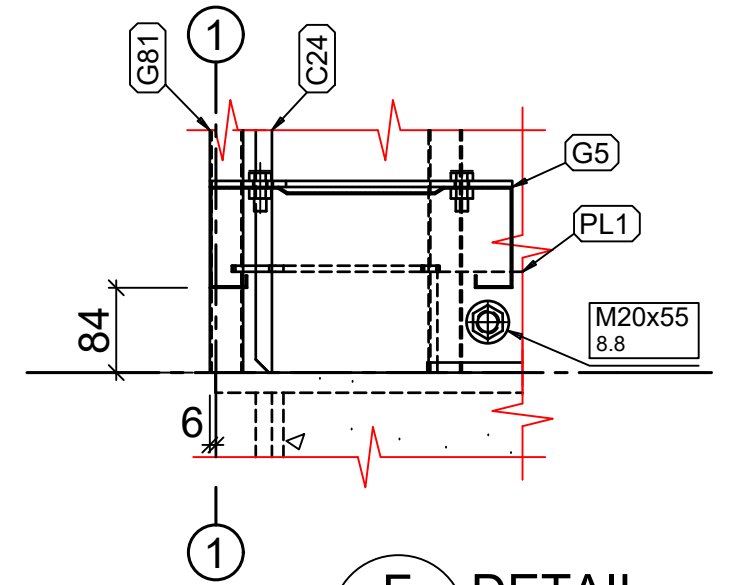
D DETAIL
1015 Scale: 1:15



E DETAIL
1015 Scale: 1:15



G DETAIL
1015 Scale: 1:15

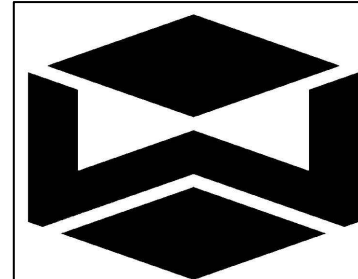


H DETAIL
1015 Scale: 1:7.5

Mark	Part Name	ASM Weight
3	STD METAL CRAFT BRIDGE	3.59
7	STD METAL CRAFT BRIDGE	3.59
8	STD METAL CRAFT BRIDGE	3.59
14	STD METAL CRAFT BRIDGE	3.59
30	STD METAL CRAFT BRIDGE	2.89
43	STD METAL CRAFT BRIDGE	3.58
44	STD METAL CRAFT BRIDGE	2.88
B1	200x200x6.0 SHS	349.60
B2	200x200x9.0 SHS	493.11
B3	200x200x6.0 SHS	350.92
B5	200x200x6.0 SHS	349.60
B8	200x200x6.0 SHS	353.04
B13	200x200x6.0 SHS	350.27
B15	200x200x6.0 SHS	345.39
B20	250 PFC	219.30
B22	300 PFC	755.90
B23	300 PFC	755.25
B24	300 PFC	755.25
B25	300 PFC	755.25
B26	310 UB 46.2	402.80
B27	310 UC 11.1	2118.89
B29	460 UB 82.1	1345.31
B35	460 UB 82.1	1640.34
B36	460 UB 82.1	264.45
B39	200x200x6.0 SHS	351.01
C1	75x75x5.0 SHS	25.02
C2	89x89x3.5 SHS	27.80
C7	200 UB 22.3	131.05
C14	250 UB 31.4	211.74
C20	360 UB 56.7	723.18
C24	460 UB 82.1	1228.90
C25	460 UB 82.1	1133.56
C26	460 UB 82.1	1150.10
C27	460 UB 82.1	1150.10
C28	460 UB 82.1	1132.09
C33	530 UB 82.0	1004.89
C34	530 UB 82.0	1013.39
G1	MSS300/15	63.23
G3	MSS200/15	20.77
G5	MSS300/15	63.23
G6	MSS250/18	56.73
G8	MSS250/18	57.61
G13	MSS250/18	16.22
G17	MSS250/18	16.22
G19	MSS250/18	42.14
G22	MSS250/18	2.27
G26	MSS200/15	20.77
G30	MSS200/15	12.65
G33	MSS250/18	59.02
G34	MSS250/18	19.48
G38	MSS250/18	13.88
G45	MSS200/15	12.65
G51	MSS250/18	57.61
G52	MSS250/18	56.73
G53	MSS250/18	23.25
G54	MSS250/18	60.01
G55	MSS250/18	60.01
G56	MSS250/18	60.00
G57	MSS250/18	23.35
G58	MSS250/18	49.95
G59	MSS250/18	37.47
G60	MSS250/18	59.00
G61	MSS250/18	59.00
G75	MSS250/18	49.96
G76	MSS250/18	49.96
G77	MSS250/18	59.02
G81	MSS250/18	80.64
G82	MSS250/18	71.39
G86	MSS250/18	10.53
G87	MSS250/18	18.98
G88	MSS250/18	16.22
HD1	42.4x3.2 CHS	99.48
HD2	42.4x3.2 CHS	140.51
P1	MSS300/18	76.00
P3	MSS300/18	75.99
P4	MSS300/18	76.01
P5	MSS300/18	76.00
P6	MSS300/18	76.00
P7	MSS250/18	63.22
P8	MSS250/18	40.89
P16	MSS250/18	54.03
P17	MSS250/18	40.89
RB1	RB 20	26.40
RB2	RB 20	30.25
RB3	RB 25	41.27
RB4	RB 20	27.03
RB5	RB 20	31.04
RB7	RB 25	41.09
RB8	RB 25	40.66
RB9	ReidBrace Set RB25	0.00
RB11	RB 25	39.17
RB13	RB 20	26.83
RB14	RB 20	31.10
RB15	RB 20	31.10
RB17	ReidBrace Set RB20	0.00
SG1	230 PFC	595.18

NOTE: TREAT ALL DETAILS AS TYPICAL

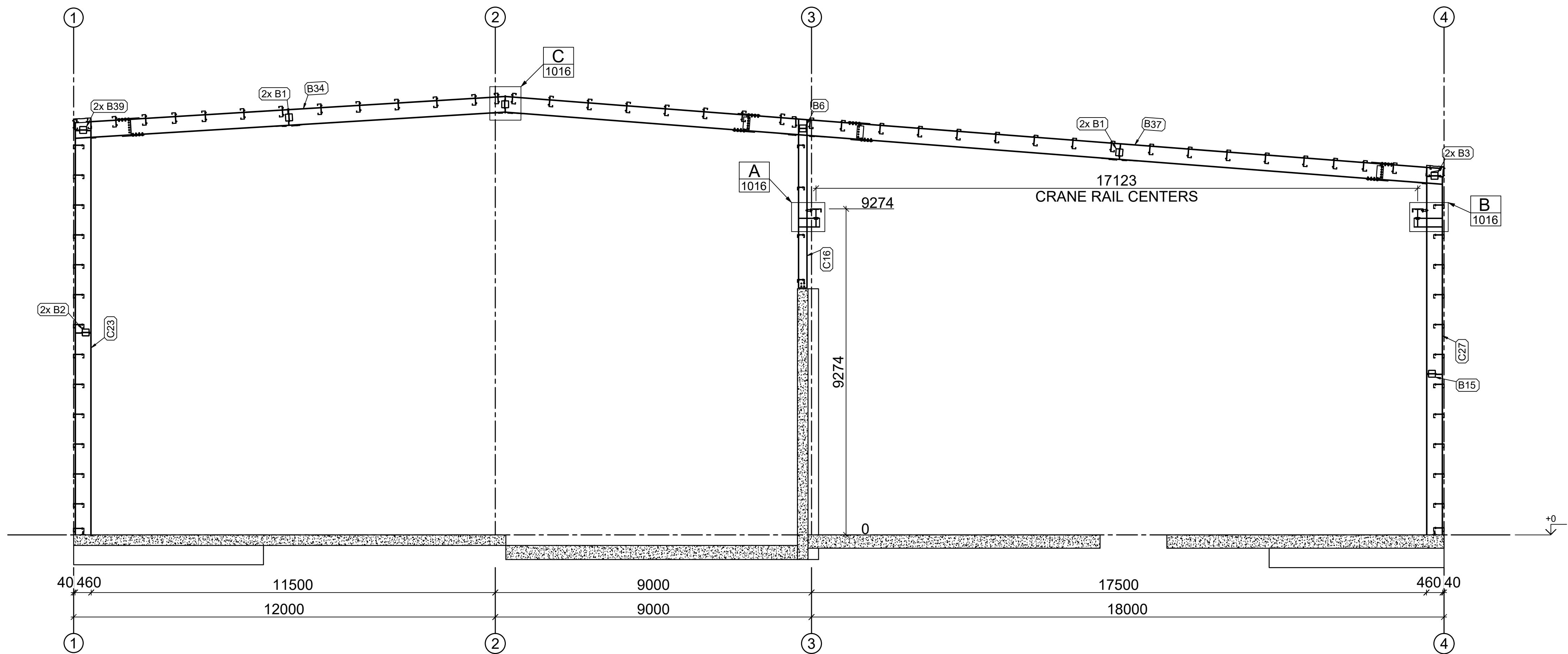
ALL TIMBER & CONCRETE ONLY DRAWN AS REFERENCE - REFER TO ARCHITECTS & ENGINEERS PLANS FOR FURTHER DETAILS



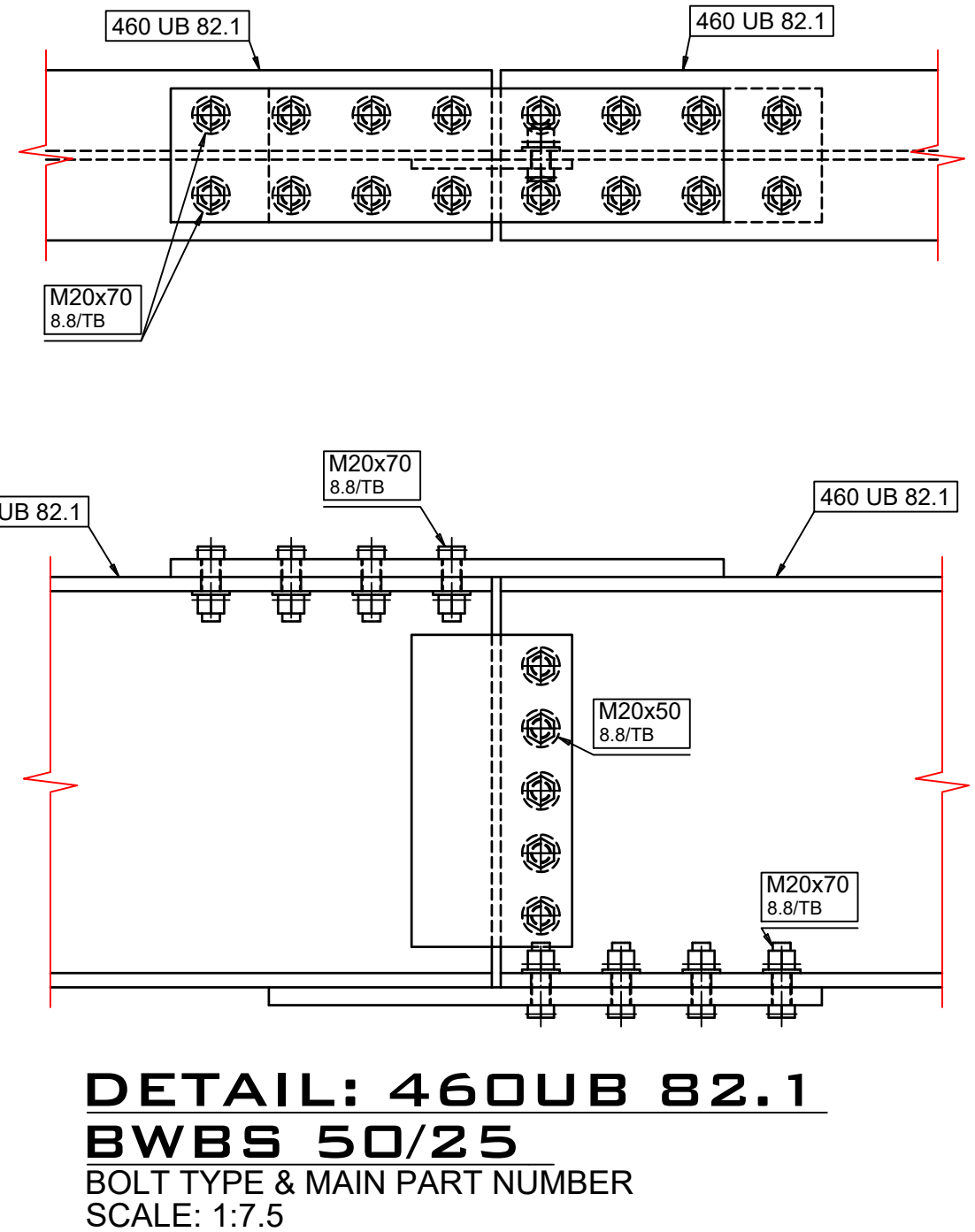
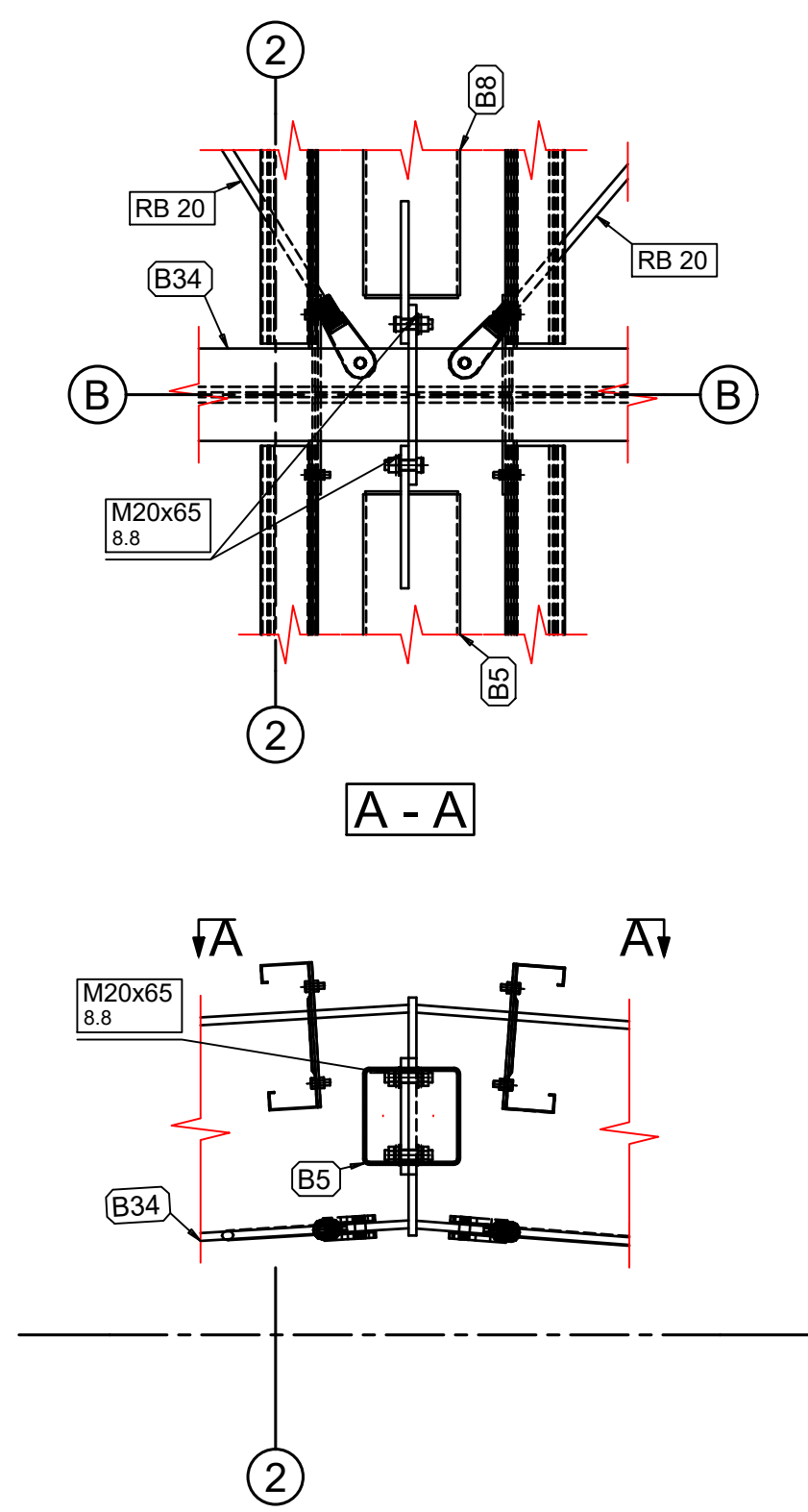
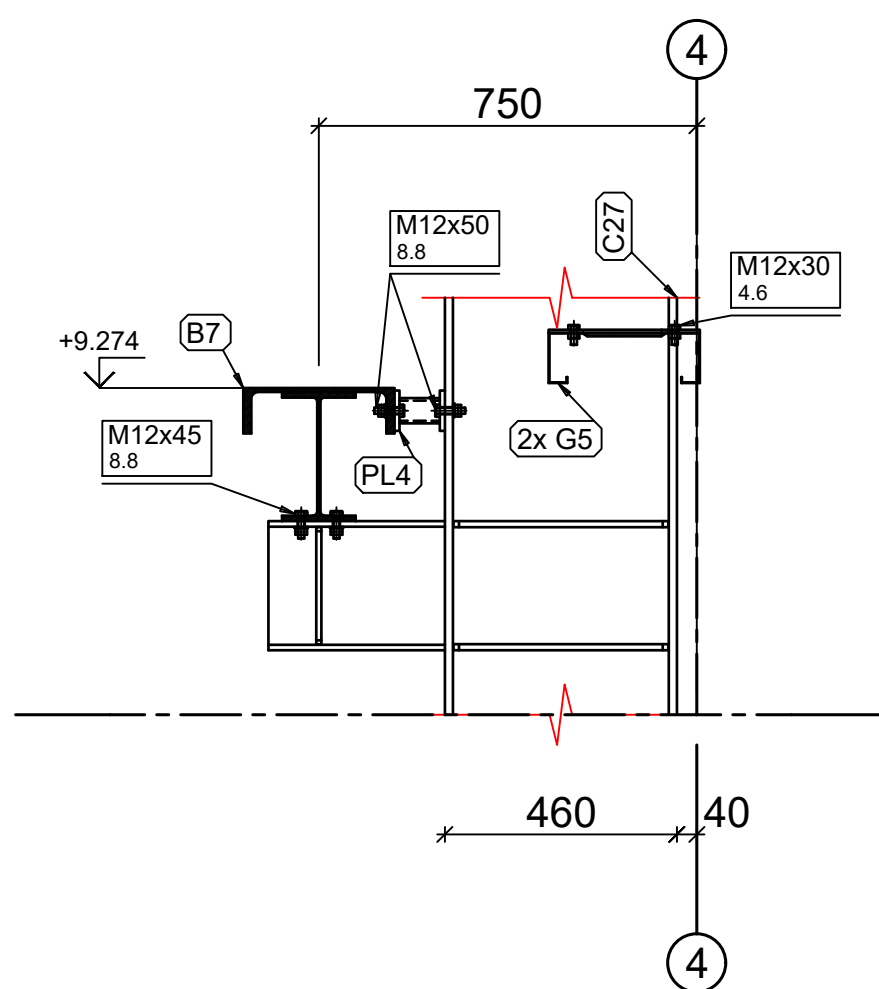
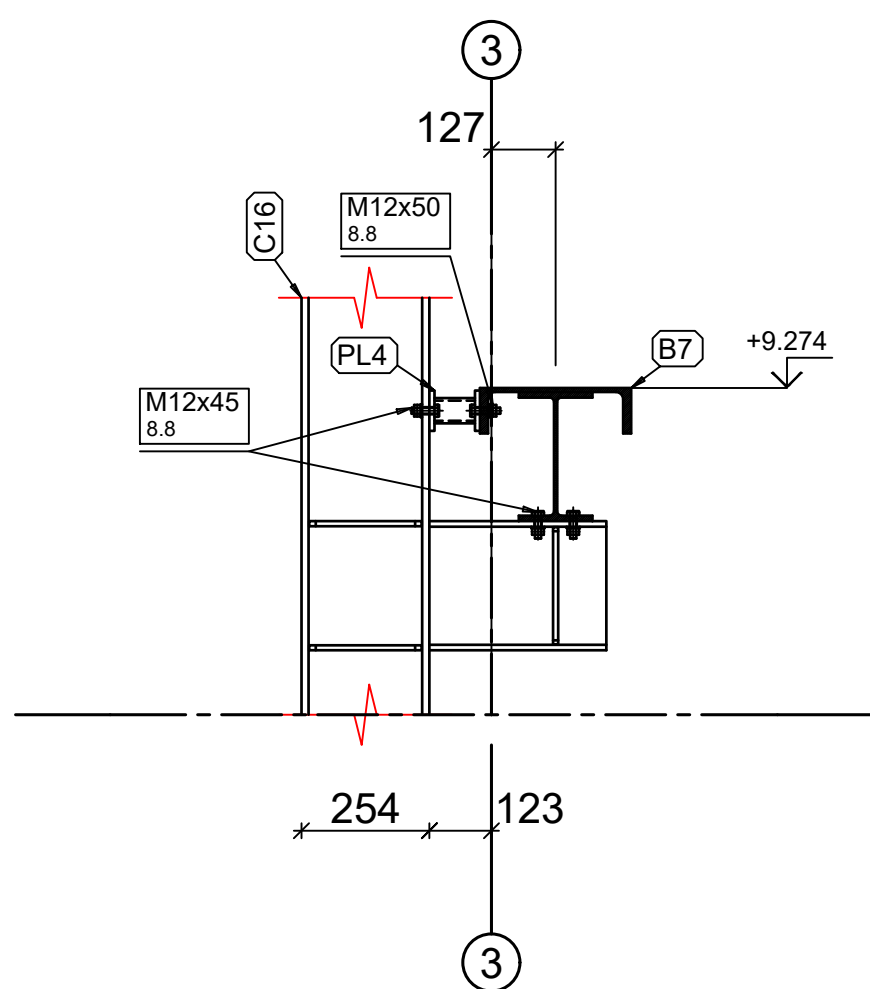
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C	17/04/2023	BSW	IFC	
B	28/03/2023	BSW	IFA#2	
A	1/03/2023	BSW	IFA	
Index	Date	Author	Description	
	Date	Name	Model DWG - Biomass	Status Comment
Order	15/01/2023		Engineer	SAMPLE
Detailer	1/03/2023	BSW	Architect	SAMPLE
			17/04/2023	
Scale	@A1	Project No.	Drawing Num.	
1:15,1:7.5,1:75		T.B.C	1015	
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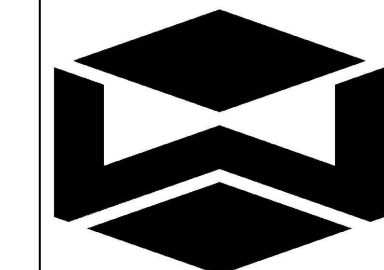


Mark	Part Name	ASM Weight
B1	200x200x6.0 SHS	349.60
B2	200x200x9.0 SHS	493.11
B3	200x200x6.0 SHS	350.52
B5	200x200x6.0 SHS	349.60
B6	200x200x6.0 SHS	348.89
B7	300 PFC	747.98
B8	200x200x6.0 SHS	353.04
B13	200x200x6.0 SHS	350.27
B15	200x200x6.0 SHS	345.39
B22	300 PFC	755.90
B23	300 PFC	755.25
B24	300 PFC	755.25
B25	300 PFC	755.25
B31	460 UB 82.1	1344.28
B34	460 UB 82.1	1597.20
B35	460 UB 82.1	1640.34
B37	460 UB 82.1	1341.52
B39	200x200x6.0 SHS	351.01
C15	250 UC 72.9	697.56
C16	250 UC 72.9	697.56
C23	460 UB 82.1	1220.21
C24	460 UB 82.1	1228.90
C25	460 UB 82.1	1133.56
C26	460 UB 82.1	1150.10
C27	460 UB 82.1	1150.10
C28	460 UB 82.1	1132.09
C29	460 UB 82.1	1206.10
C30	460 UB 82.1	1220.21
G1	MSS300/15	63.23
G5	MSS300/15	63.23
G11	MSS200/15	43.94
G12	MSS200/15	43.94
G23	MSS300/15	27.76
G29	MSS200/15	30.52
G46	MSS200/15	30.63
G47	MSS200/15	30.51
G94	MSS300/15	63.23
P1	MSS300/18	76.00
P3	MSS300/18	75.99
P4	MSS300/18	76.01
P5	MSS300/18	76.00
P6	MSS300/18	76.00
PL4	80 x 170 x 10 PL	2.60
RB1	RB 20	26.40
RB2	RB 20	30.25
RB3	RB 25	41.27
RB4	RB 20	27.03
RB5	RB 20	31.04
RB7	RB 25	41.09
RB8	RB 25	40.66
RB9	ReidBrace Set RB25	0.00
RB11	RB 25	39.17
RB13	RB 20	25.83
RB14	RB 20	31.10
RB15	RB 20	31.31
RB17	ReidBrace Set RB20	0.00



NOTE: TREAT ALL DETAILS AS TYPICAL

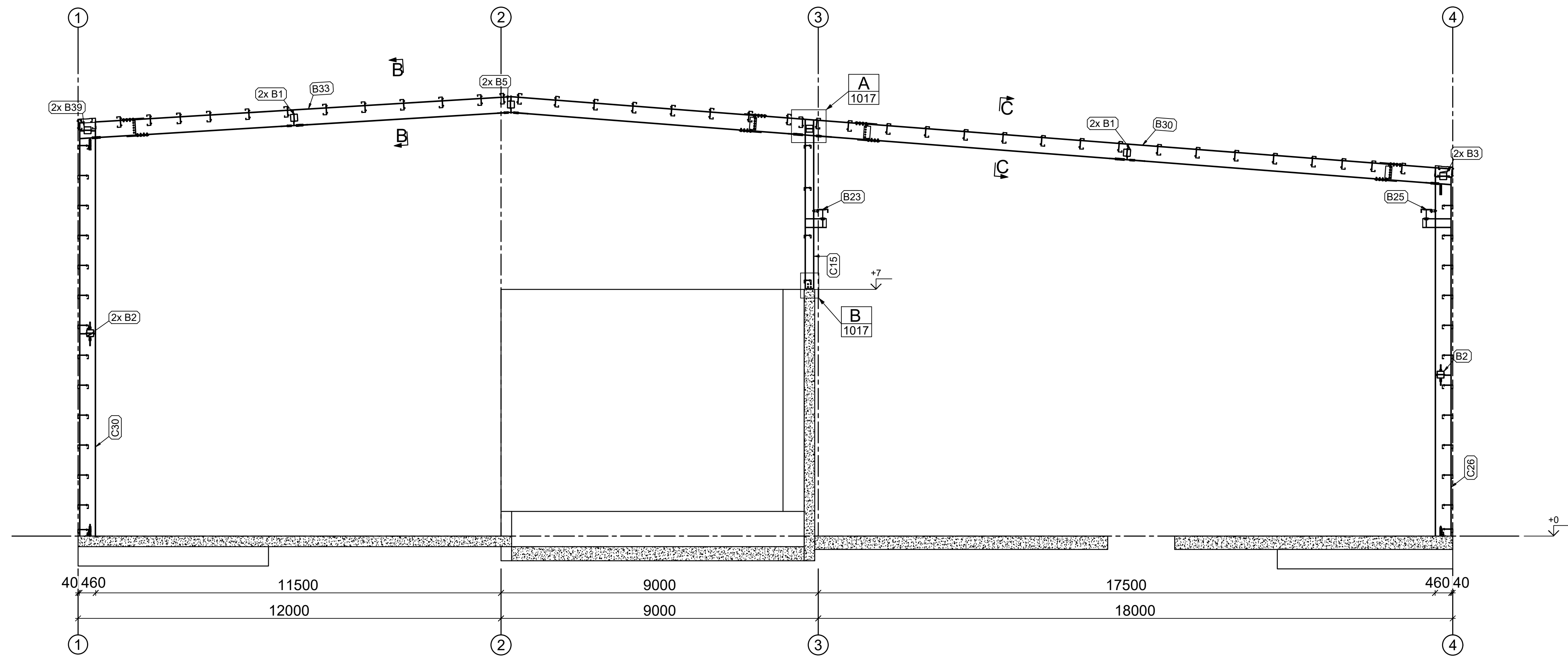
ALL TIMBER & CONCRETE ONLY DRAWN AS REFERENCE - REFER TO ARCHITECTS & ENGINEERS PLANS FOR FURTHER DETAILS



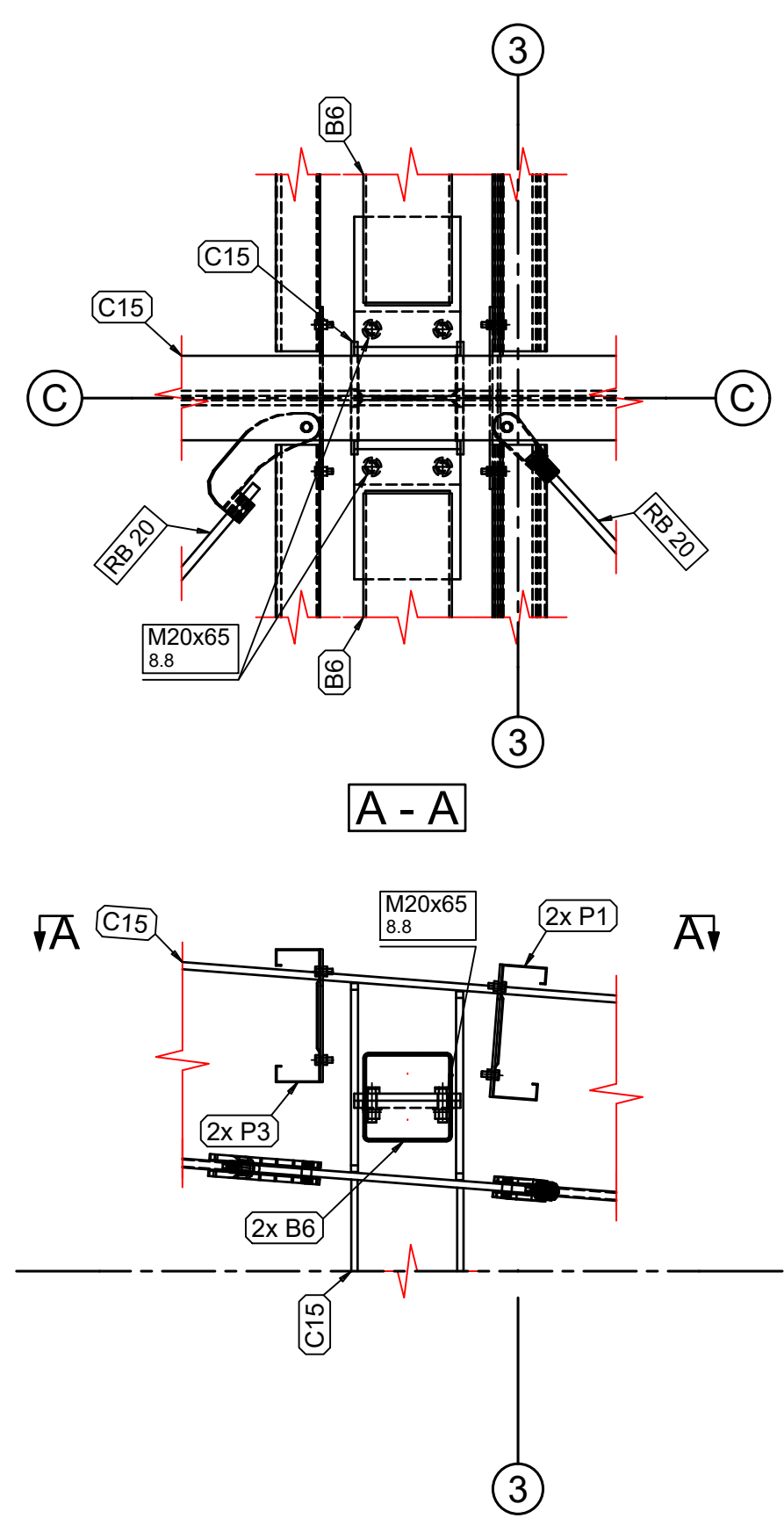
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Index	Date	Author	Description	Status	Comment
D	17/04/2023	BSW	IFC		
C	17/04/2023	BSW	IFC		
B	28/03/2023	BSW	IFA#2		
A	1/03/2023	BSW	IFA		
Order	15/01/2023	Engineer	Model DWG - Biomass	Revision	Comment
Detailer	7/03/2023	BSW	Architect	SAMPLE	17/04/2023
Scale		@A1	Project No.		
1:15,1:7.5,1:75			T.B.C		
			Drawing Num.		
			1016		

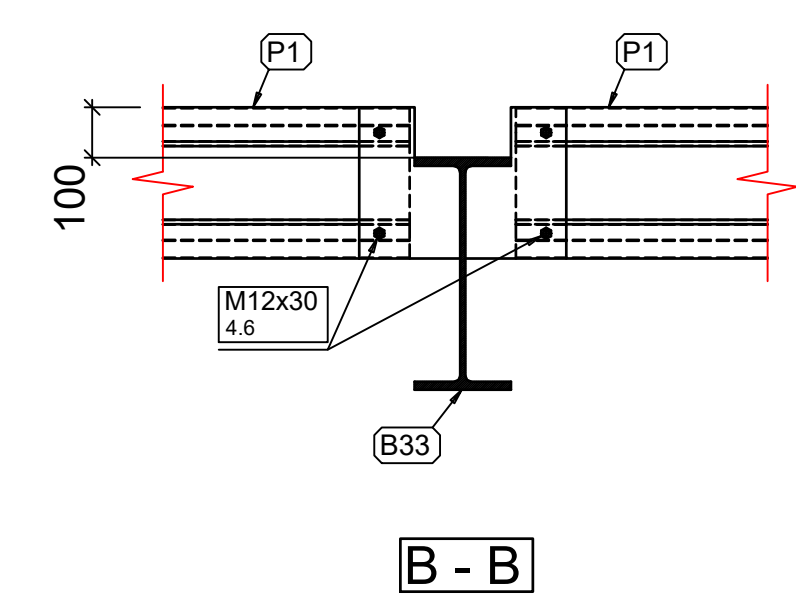
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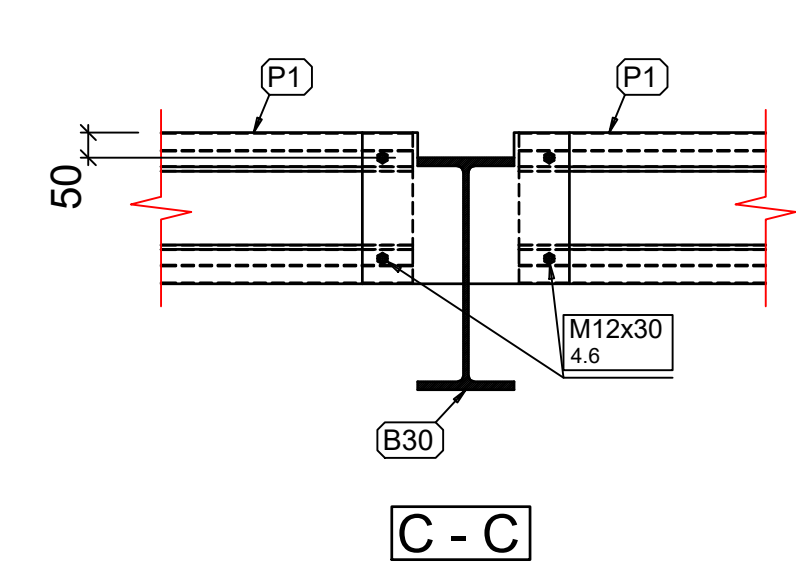
ELEVATION: GRID: C - EAST
BOLT TYPE & MAIN PART NUMBER
SCALE: 1:75



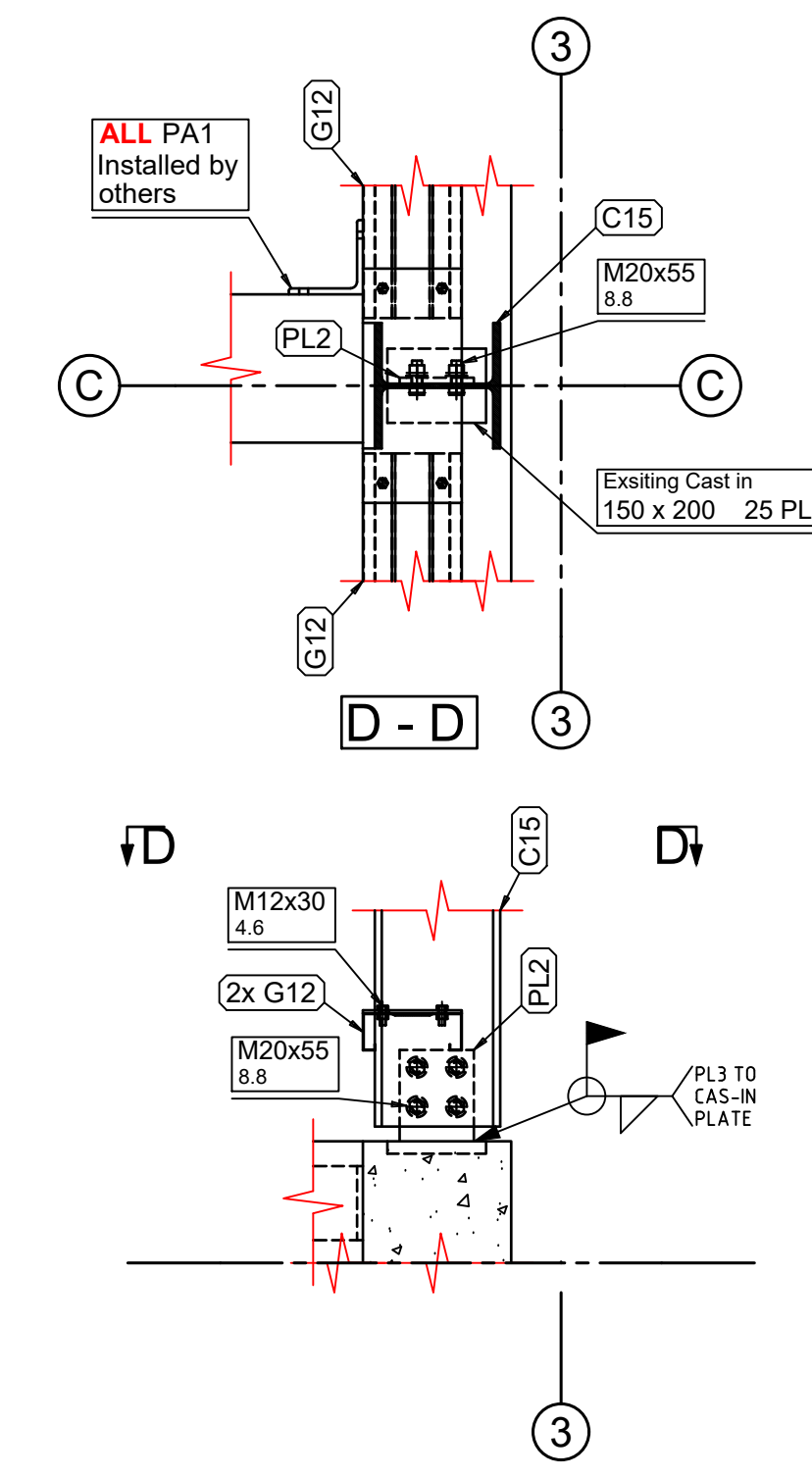
A DETAIL
1017 Scale: 1:15



B - B



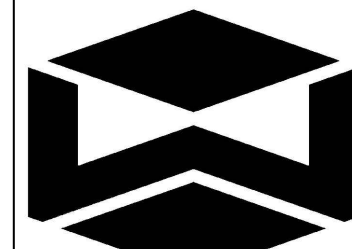
C - C



B DETAIL
1017 Scale: 1:15

Mark	MainPart of Assembly	ASM Weight
B1	200x200x6.0 SHS	349.60
B2	200x200x9.0 SHS	493.11
B3	200x200x6.0 SHS	350.52
B5	200x200x6.0 SHS	349.60
B6	200x200x6.0 SHS	348.89
B7	300 PFC	747.98
B8	200x200x6.0 SHS	353.04
B15	200x200x6.0 SHS	345.39
B22	300 PFC	755.90
B23	300 PFC	755.25
B24	300 PFC	755.25
B25	300 PFC	755.25
B30	460 UB 82.1	1341.52
B33	460 UB 82.1	1597.20
B39	200x200x6.0 SHS	351.01
C15	250 UC 72.9	697.56
C16	250 UC 72.9	697.56
C23	460 UB 82.1	1220.21
C25	460 UB 82.1	1133.56
C26	460 UB 82.1	1150.10
C27	460 UB 82.1	1150.10
C28	460 UB 82.1	1132.09
C29	460 UB 82.1	1206.10
C30	460 UB 82.1	1220.21
G1	MSS300/15	63.23
G5	MSS300/15	63.23
G11	MSS200/15	43.94
G12	MSS200/15	43.94
G24	MSS300/15	27.98
G94	MSS300/15	63.23
G96	MSS300/15	63.23
G100	MSS300/15	58.02
P1	MSS300/18	76.00
P3	MSS300/18	75.99
P4	MSS300/18	76.01
P5	MSS300/18	76.00
P6	MSS300/18	76.00
PA1	150x150x12 EA	4.02
PL4	80 x 170 10 PL	2.60
RB1	RB 20	26.40
RB2	RB 20	30.25
RB3	RB 25	41.27
RB4	RB 20	27.03
RB5	RB 20	31.04
RB6	RB 20	31.14
RB9	ReidBrace Set RB25	0.00
RB10	RB 25	40.90
RB11	RB 25	39.17
RB12	RB 25	40.71
RB16	RB 20	30.99
RB17	ReidBrace Set RB20	0.00

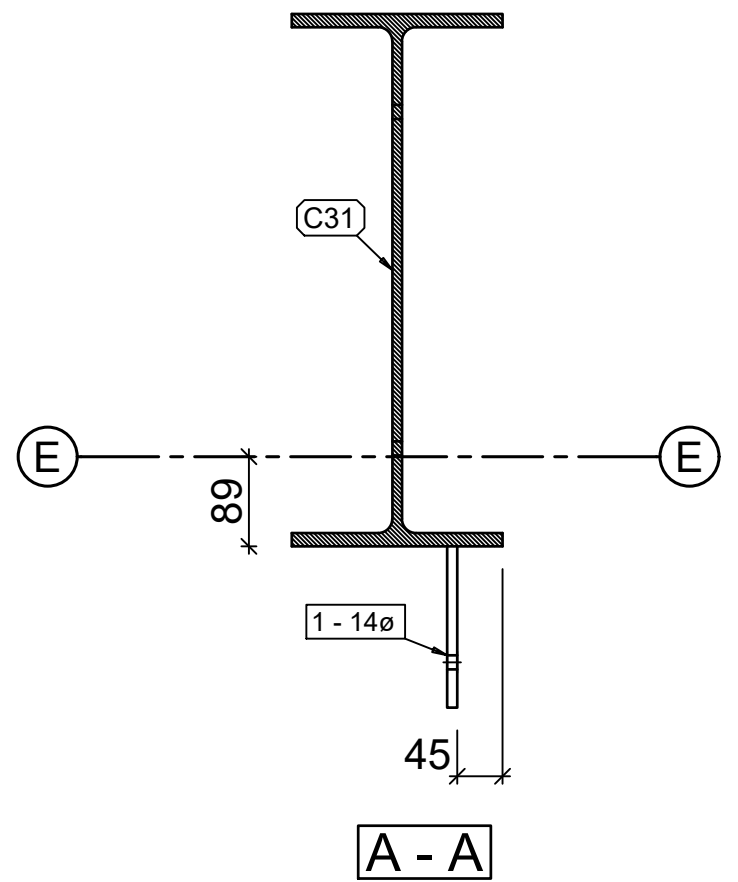
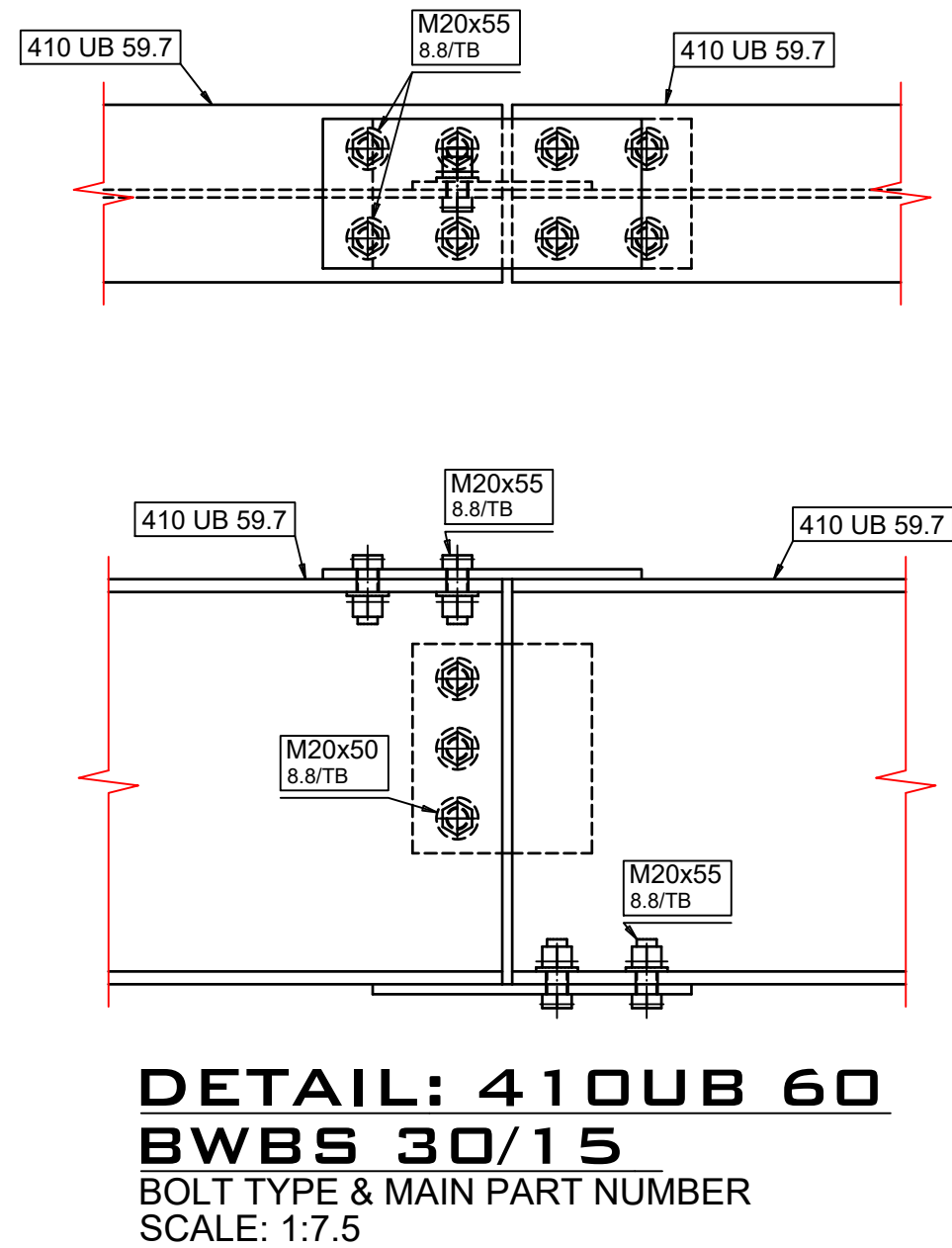
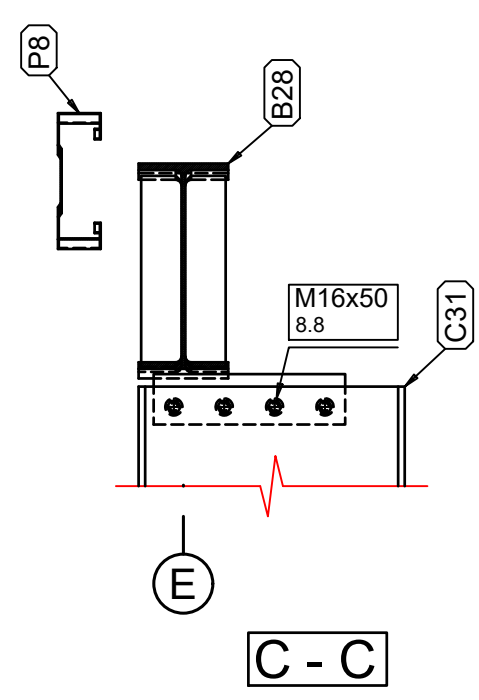
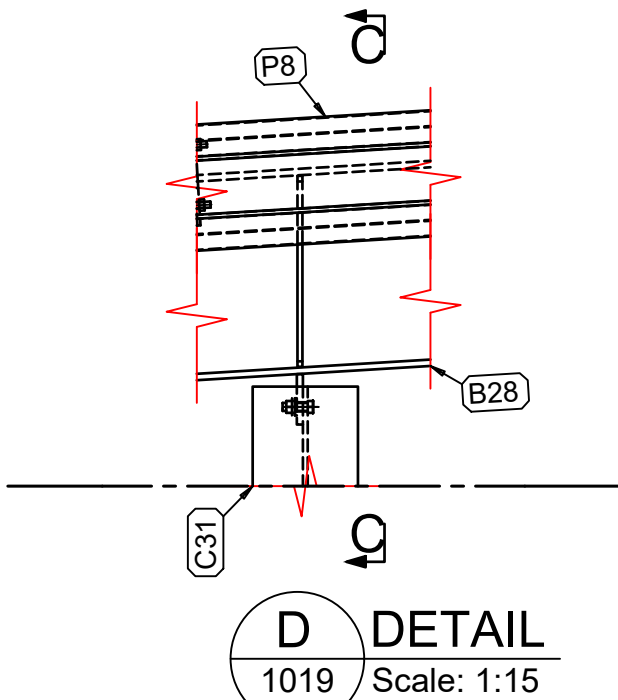
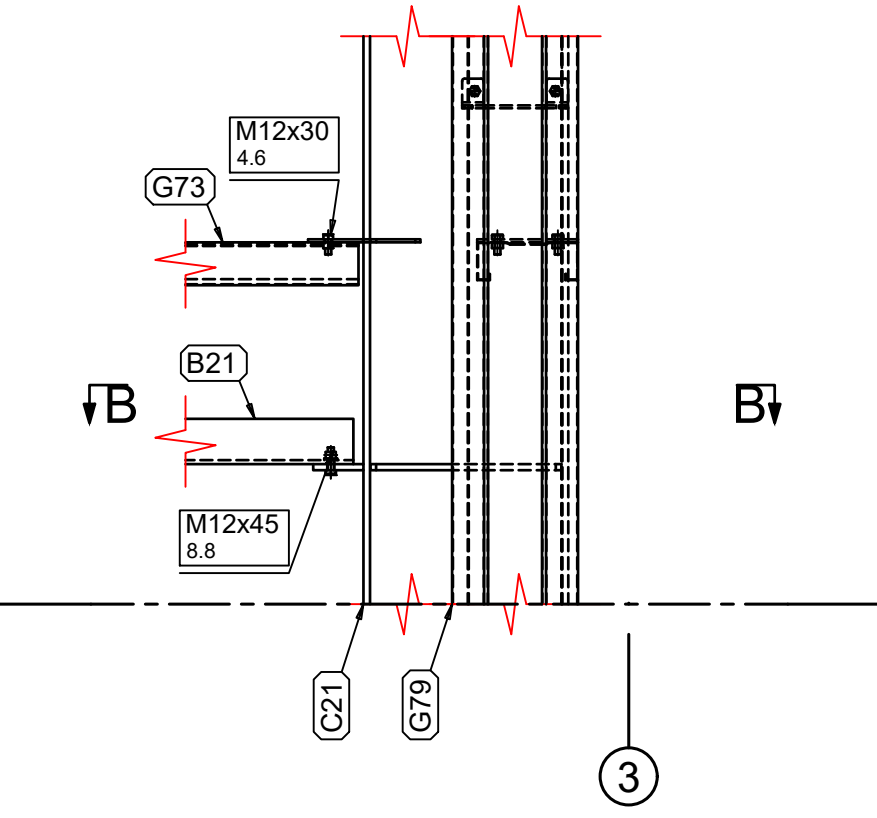
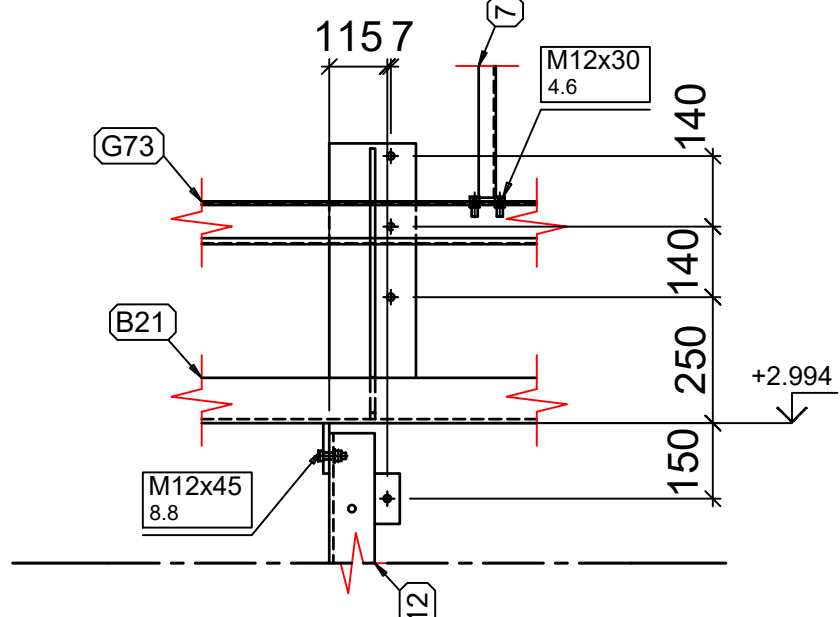
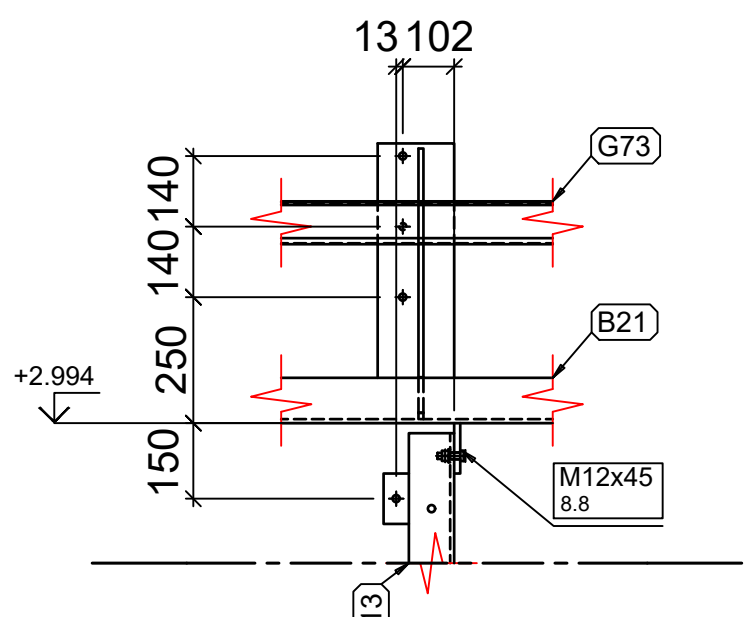
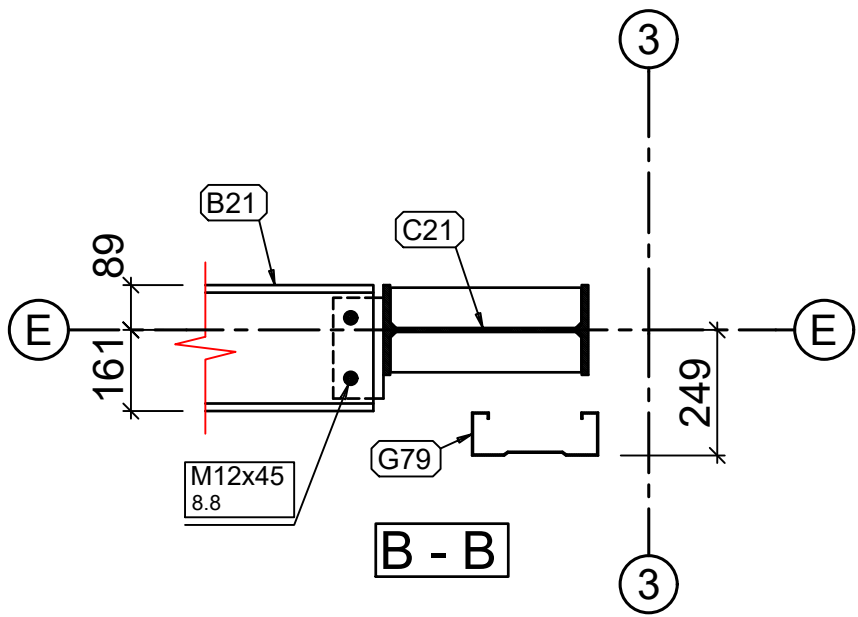
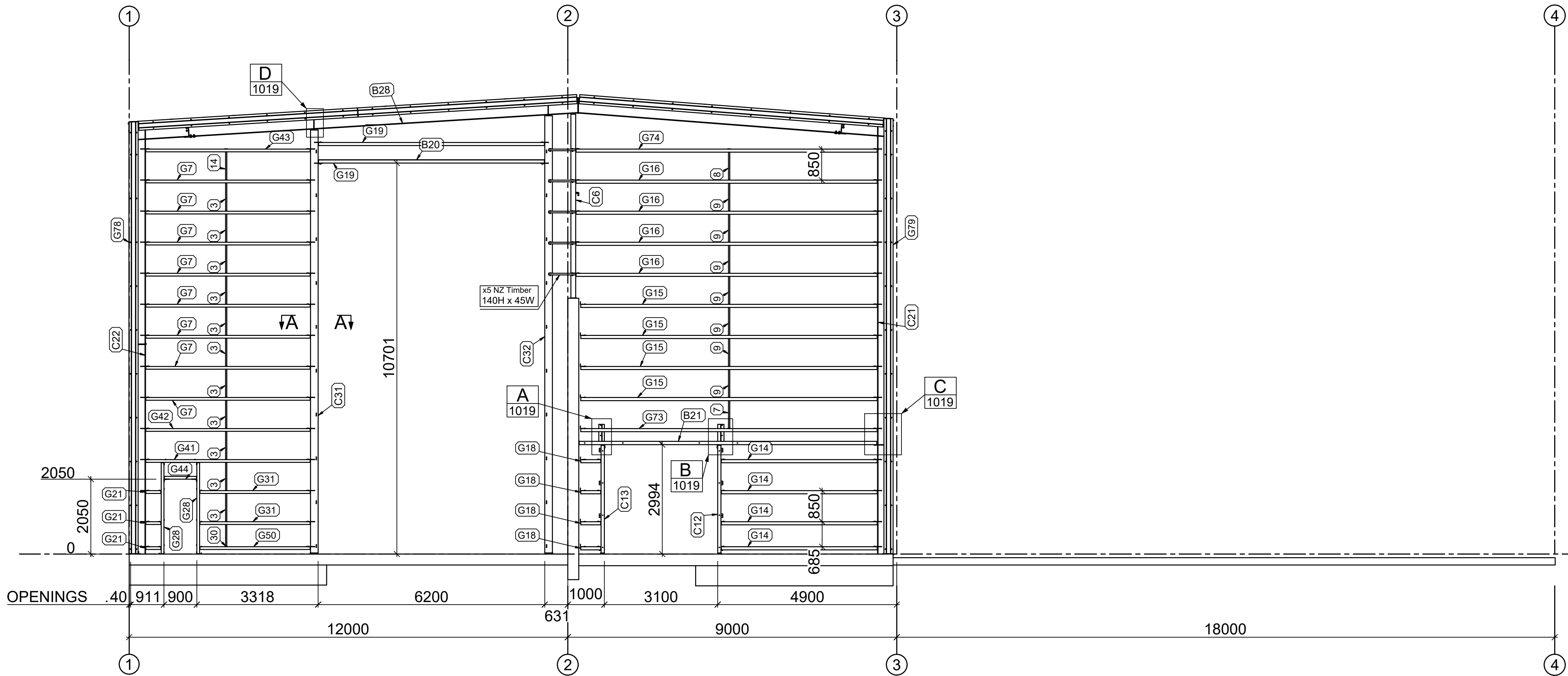
NOTE: TREAT ALL DETAILS AS TYPICAL
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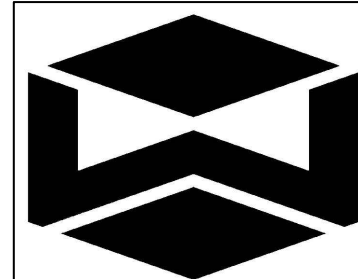
C	17/04/2023	BSW	IFC		
B	28/03/2023	BSW	IFA#2		
A	1/03/2023	BSW	IFA		
Index	Date	Author	Description		
	Date	Name	Model DWG - Biomass		Status Comment
Order	15/01/2023		Engineer	SAMPLE	Revision Date
Detailer	1/03/2023	BSW	Architect	SAMPLE	17/04/2023
Scale	@A1		Project No.		Drawing Num.
1:15,1:75			T.B.C		1017
					
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Mark	Part Name	ASM Weight
3	STD METAL CRAFT BRIDGE	3.59
7	STD METAL CRAFT BRIDGE	3.58
8	STD METAL CRAFT BRIDGE	3.58
9	STD METAL CRAFT BRIDGE	3.58
14	STD METAL CRAFT BRIDGE	3.59
30	STD METAL CRAFT BRIDGE	2.89
B9	200x200x6.0 SHS	238.37
B10	200x200x6.0 SHS	232.76
B11	200x200x6.0 SHS	237.15
B12	200x200x6.0 SHS	240.60
B14	200x200x6.0 SHS	240.39
B20	250 PFC	218.30
B21	250 PFC	218.67
B28	410 UB 59.7	1174.21
C6	200 UB 22.3	130.87
C12	250 PFC	116.43
C13	250 PFC	116.43
C21	410 UB 59.7	881.49
C22	410 UB 59.7	891.01
C31	530 UB 82.0	1009.33
C32	530 UB 82.0	1017.83
G2	MSS200/15	29.45
G6	MSS200/15	12.14
G7	MSS200/15	21.02
G14	MSS250/18	29.07
G15	MSS250/18	55.29
G16	MSS250/18	56.16
G18	MSS250/18	3.71
G19	MSS250/18	42.14
G20	MSS200/15	12.24
G21	MSS200/15	1.91
G25	MSS200/15	29.45
G28	MSS200/15	11.63
G31	MSS200/15	14.09
G40	MSS300/15	41.89
G41	MSS200/15	21.01
G42	MSS200/15	21.02
G43	MSS200/15	21.02
G44	MSS200/15	4.11
G50	MSS200/15	14.09
G73	MSS250/18	55.28
G74	MSS250/18	56.16
G78	MSS250/18	80.57
G79	MSS250/18	81.15
G98	MSS300/15	41.89
G99	MSS300/15	41.89
P2	MSS200/18	35.37
P8	MSS250/18	40.89
P9	MSS200/18	35.38
P10	MSS200/18	35.36
P11	MSS200/18	35.37
P13	MSS200/18	35.37
P14	MSS250/18	42.92
P15	MSS250/18	56.82
P19	MSS300/18	50.60
PA2	GPB250	0.00



NOTE: TREAT ALL DETAILS AS TYPICAL

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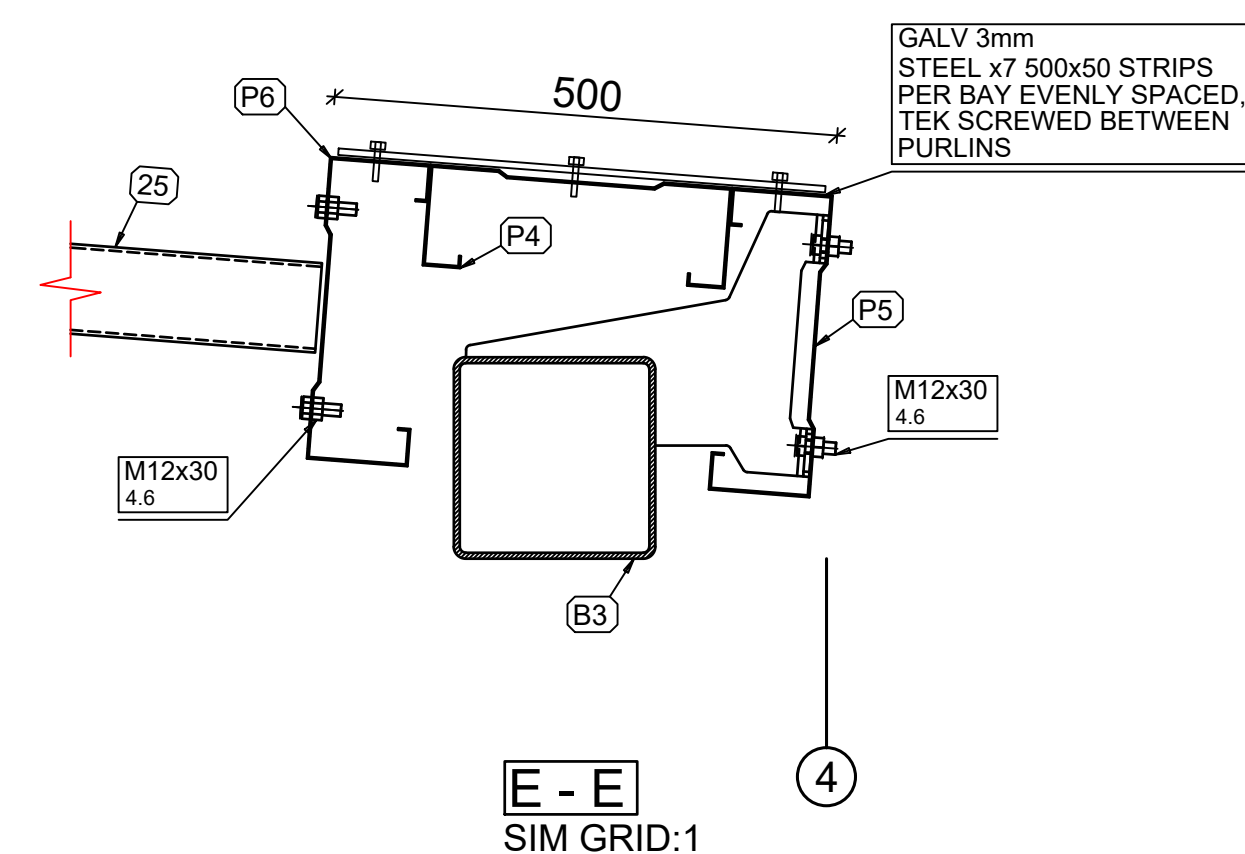
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B	28/03/2023	BSW	IFA#2		
A	1/03/2023	BSW	IFA		
Index	Date	Author	Description		
	Date	Name	Model DWG - Biomass	Status Comment	
Order	15/01/2023		Engineer	SAMPLE	Revision Date
Detailer	8/03/2023	BSW	Architect	SAMPLE	17/04/2023
Scale		@A1	Project No.	Drawing Num.	
1:15,1:7.5,1:75			T.B.C	1019	
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This architectural floor plan illustrates a building section with structural details and dimensions. The plan is divided into three main bays by vertical grid lines A, B, C, and D, with a final section to the right of grid D. The horizontal dimensions are 9665, 4367, 9665, 4398, 9511, and 6500. The vertical dimensions are 6954, 5984, and 5984. The plan includes various structural elements such as columns (B3, B2, B15, B17, C27, C26, C25, C8, C9, C10), beams (G5, G1, G96, G100, G97, G23, G24, G94, G101, G102, G103, G104, G105, G106, G107, G108, G109, G110, G111, G112, G113, G114, G115, G116, G117, G118, G119, G120, G121, G122, G123, G124, G125, G126, G127, G128, G129, G130, G131, G132, G133, G134, G135, G136, G137, G138, G139, G140, G141, G142, G143, G144, G145, G146, G147, G148, G149, G150, G151, G152, G153, G154, G155, G156, G157, G158, G159, G160, G161, G162, G163, G164, G165, G166, G167, G168, G169, G170, G171, G172, G173, G174, G175, G176, G177, G178, G179, G180, G181, G182, G183, G184, G185, G186, G187, G188, G189, G190, G191, G192, G193, G194, G195, G196, G197, G198, G199, G200, G201, G202, G203, G204, G205, G206, G207, G208, G209, G210, G211, G212, G213, G214, G215, G216, G217, G218, G219, G220, G221, G222, G223, G224, G225, G226, G227, G228, G229, G230, G231, G232, G233, G234, G235, G236, G237, G238, G239, G240, G241, G242, G243, G244, G245, G246, G247, G248, G249, G250, G251, G252, G253, G254, G255, G256, G257, G258, G259, G260, G261, G262, G263, G264, G265, G266, G267, G268, G269, G270, G271, G272, G273, G274, G275, G276, G277, G278, G279, G280, G281, G282, G283, G284, G285, G286, G287, G288, G289, G290, G291, G292, G293, G294, G295, G296, G297, G298, G299, G300, G301, G302, G303, G304, G305, G306, G307, G308, G309, G310, G311, G312, G313, G314, G315, G316, G317, G318, G319, G320, G321, G322, G323, G324, G325, G326, G327, G328, G329, G330, G331, G332, G333, G334, G335, G336, G337, G338, G339, G340, G341, G342, G343, G344, G345, G346, G347, G348, G349, G350, G351, G352, G353, G354, G355, G356, G357, G358, G359, G360, G361, G362, G363, G364, G365, G366, G367, G368, G369, G370, G371, G372, G373, G374, G375, G376, G377, G378, G379, G380, G381, G382, G383, G384, G385, G386, G387, G388, G389, G390, G391, G392, G393, G394, G395, G396, G397, G398, G399, G400, G401, G402, G403, G404, G405, G406, G407, G408, G409, G410, G411, G412, G413, G414, G415, G416, G417, G418, G419, G420, G421, G422, G423, G424, G425, G426, G427, G428, G429, G430, G431, G432, G433, G434, G435, G436, G437, G438, G439, G440, G441, G442, G443, G444, G445, G446, G447, G448, G449, G450, G451, G452, G453, G454, G455, G456, G457, G458, G459, G460, G461, G462, G463, G464, G465, G466, G467, G468, G469, G470, G471, G472, G473, G474, G475, G476, G477, G478, G479, G480, G481, G482, G483, G484, G485, G486, G487, G488, G489, G490, G491, G492, G493, G494, G495, G496, G497, G498, G499, G500, G501, G502, G503, G504, G505, G506, G507, G508, G509, G510, G511, G512, G513, G514, G515, G516, G517, G518, G519, G520, G521, G522, G523, G524, G525, G526, G527, G528, G529, G530, G531, G532, G533, G534, G535, G536, G537, G538, G539, G540, G541, G542, G543, G544, G545, G546, G547, G548, G549, G550, G551, G552, G553, G554, G555, G556, G557, G558, G559, G560, G561, G562, G563, G564, G565, G566, G567, G568, G569, G570, G571, G572, G573, G574, G575, G576, G577, G578, G579, G580, G581, G582, G583, G584, G585, G586, G587, G588, G589, G590, G591, G592, G593, G594, G595, G596, G597, G598, G599, G600, G601, G602, G603, G604, G605, G606, G607, G608, G609, G610, G611, G612, G613, G614, G615, G616, G617, G618, G619, G620, G621, G622, G623, G624, G625, G626, G627, G628, G629, G630, G631, G632, G633, G634, G635, G636, G637, G638, G639, G640, G641, G642, G643, G644, G645, G646, G647, G648, G649, G650, G651, G652, G653, G654, G655, G656, G657, G658, G659, G660, G661, G662, G663, G664, G665, G666, G667, G668, G669, G670, G671, G672, G673, G674, G675, G676, G677, G678, G679, G680, G681, G682, G683, G684, G685, G686, G687, G688, G689, G690, G691, G692, G693, G694, G695, G696, G697, G698, G699, G700, G701, G702, G703, G704, G705, G706, G707, G708, G709, G710, G711, G712, G713, G714, G715, G716, G717, G718, G719, G720, G721, G722, G723, G724, G725, G726, G727, G728, G729, G730, G731, G732, G733, G734, G735, G736, G737, G738, G739, G740, G741, G742, G743, G744, G745, G746, G747, G748, G749, G750, G751, G752, G753, G754, G755, G756, G757, G758, G759, G760, G761, G762, G763, G764, G765, G766, G767, G768, G769, G770, G771, G772, G773, G774, G775, G776, G777, G778, G779, G780, G781, G782, G783, G784, G785, G786, G787, G788, G789, G790, G791, G792, G793, G794, G795, G796, G797, G798, G799, G800, G801, G802, G803, G804, G805, G806, G807, G808, G809, G810, G811, G812, G813, G814, G815, G816, G817, G818, G819, G820, G821, G822, G823, G824, G825, G826, G827, G828, G829, G830, G831, G832, G833, G834, G835, G836, G837, G838, G839, G840, G841, G842, G843, G844, G845, G846, G847, G848, G849, G850, G851, G852, G853, G854, G855, G856, G857, G858, G859, G860, G861, G862, G863, G864, G865, G866, G867, G868, G869, G870, G871, G872, G873, G874, G875, G876, G8

BOLT TYPE & MAIN PART NUMBER
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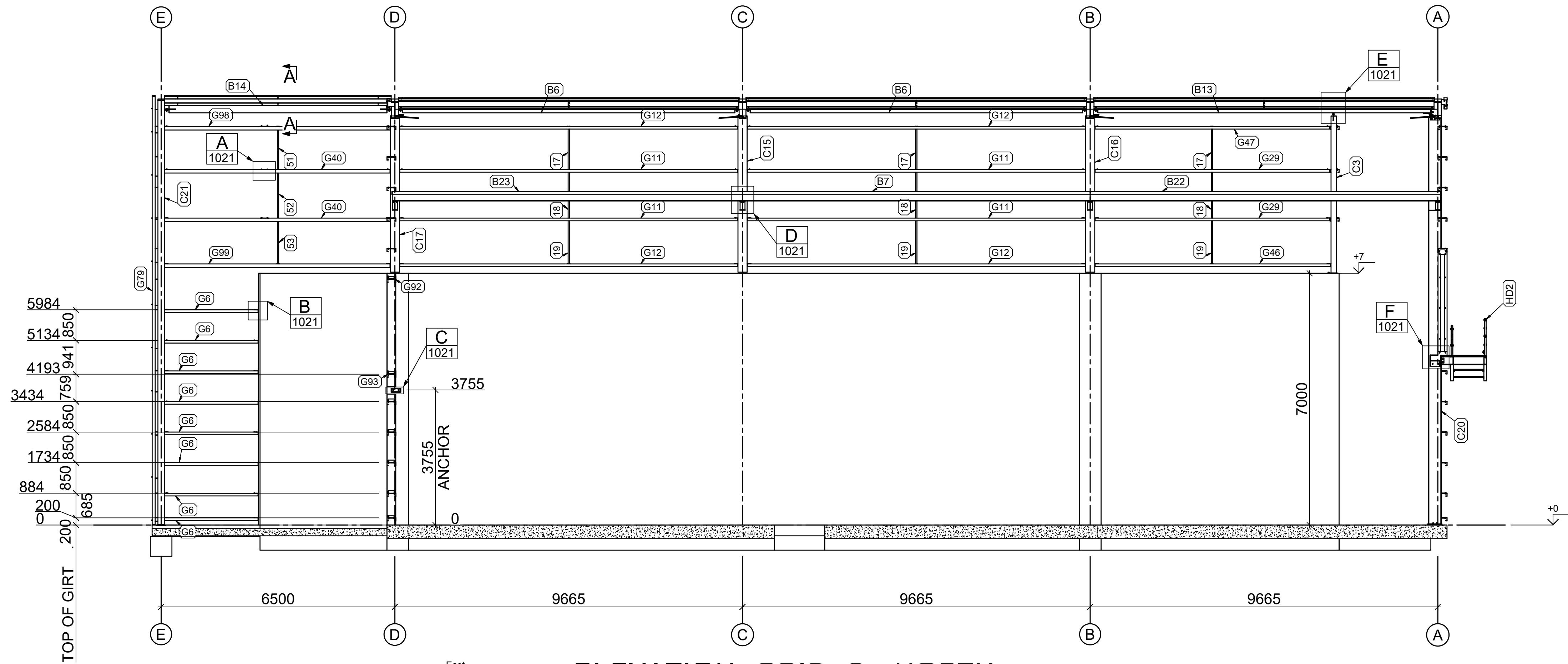


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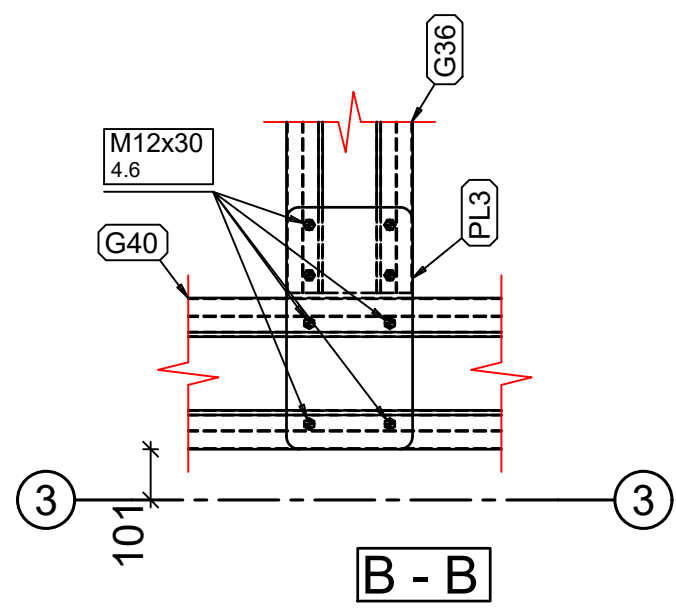


P: 022 306 7505
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W: 3DCAD.CO.NZ

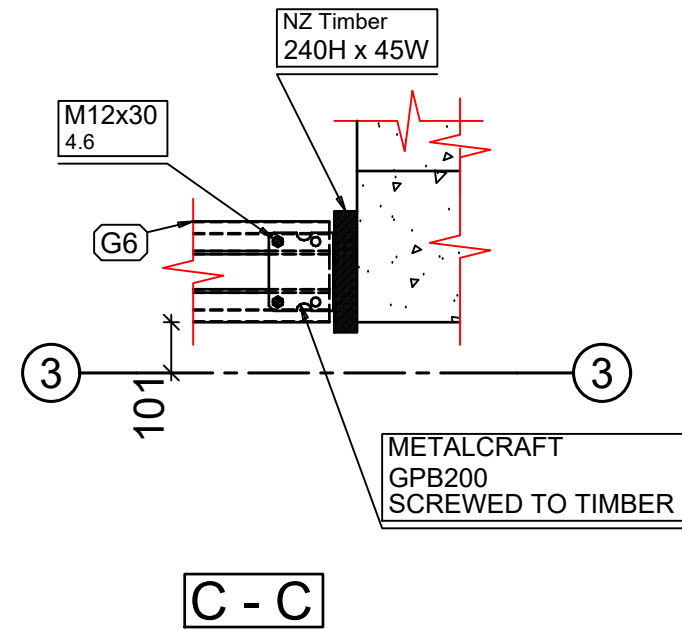
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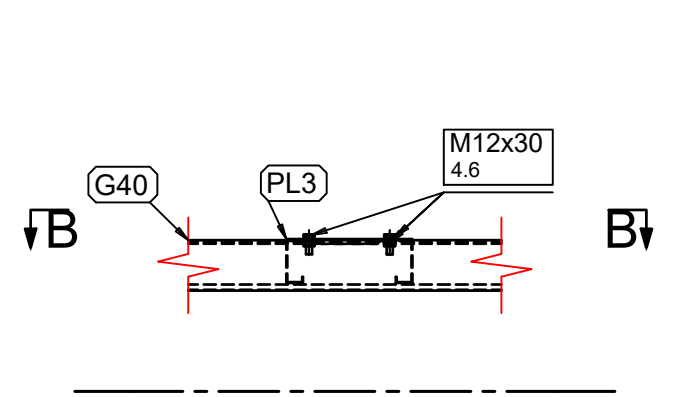
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BOLT TYPE & MAIN PART NUMBER
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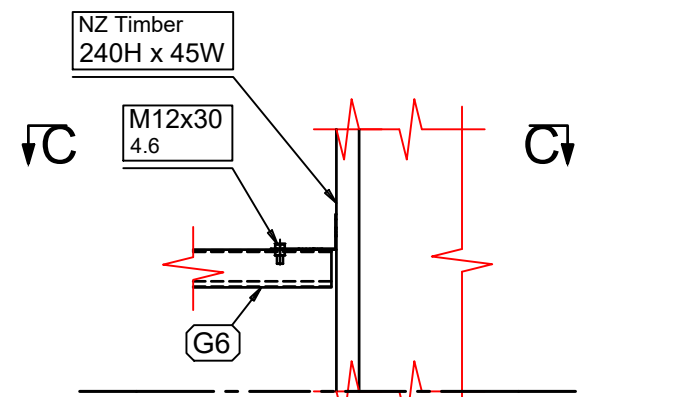
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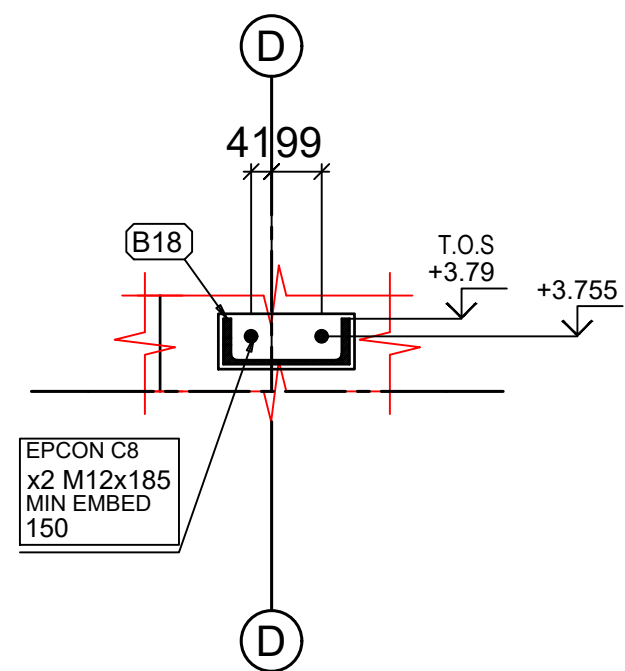
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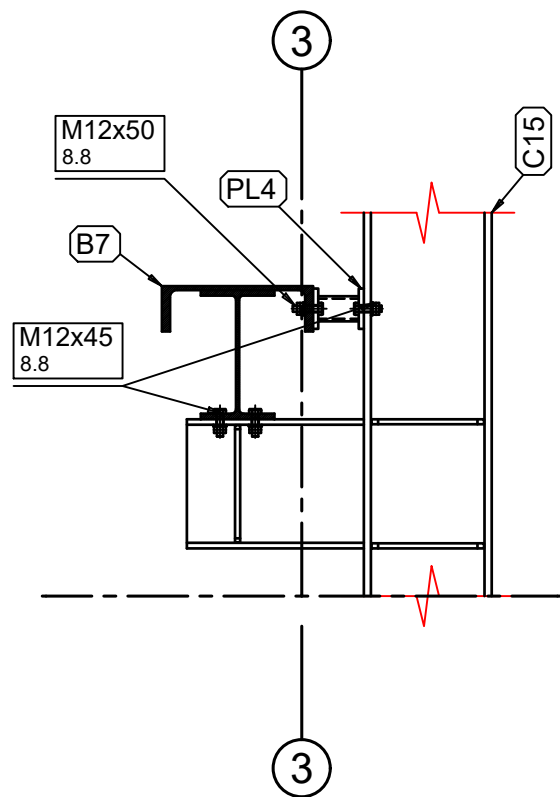
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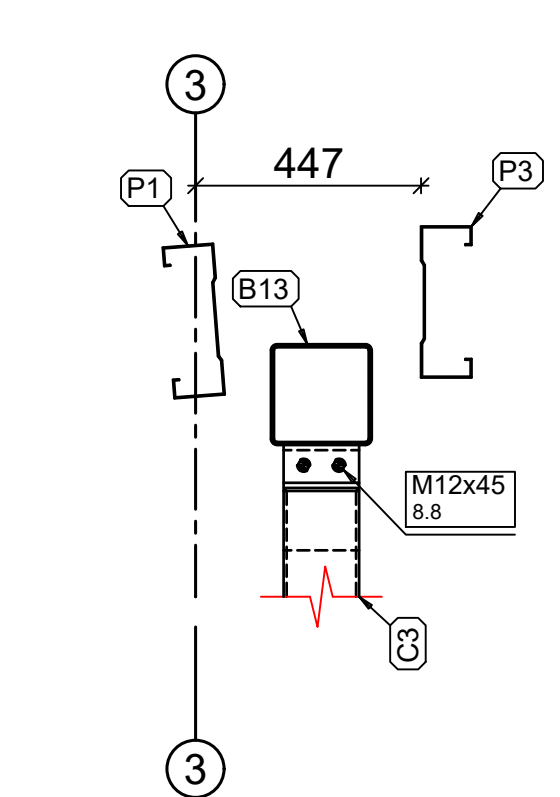
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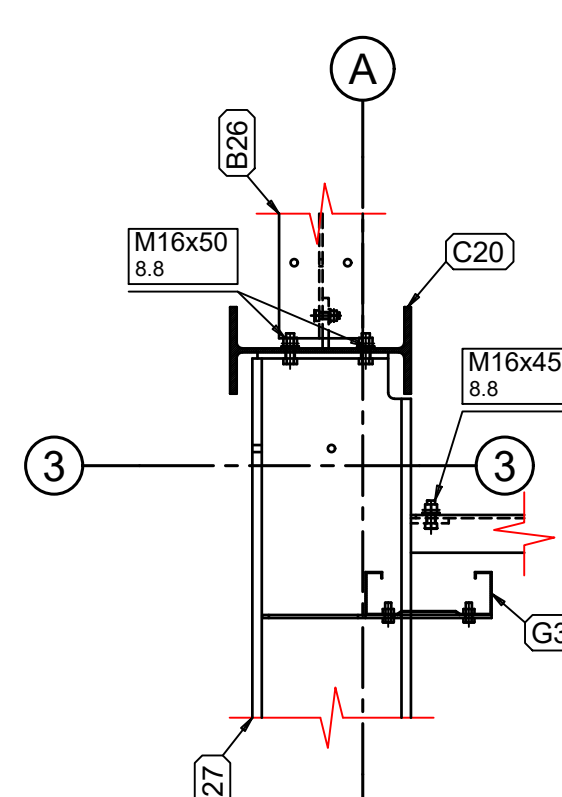
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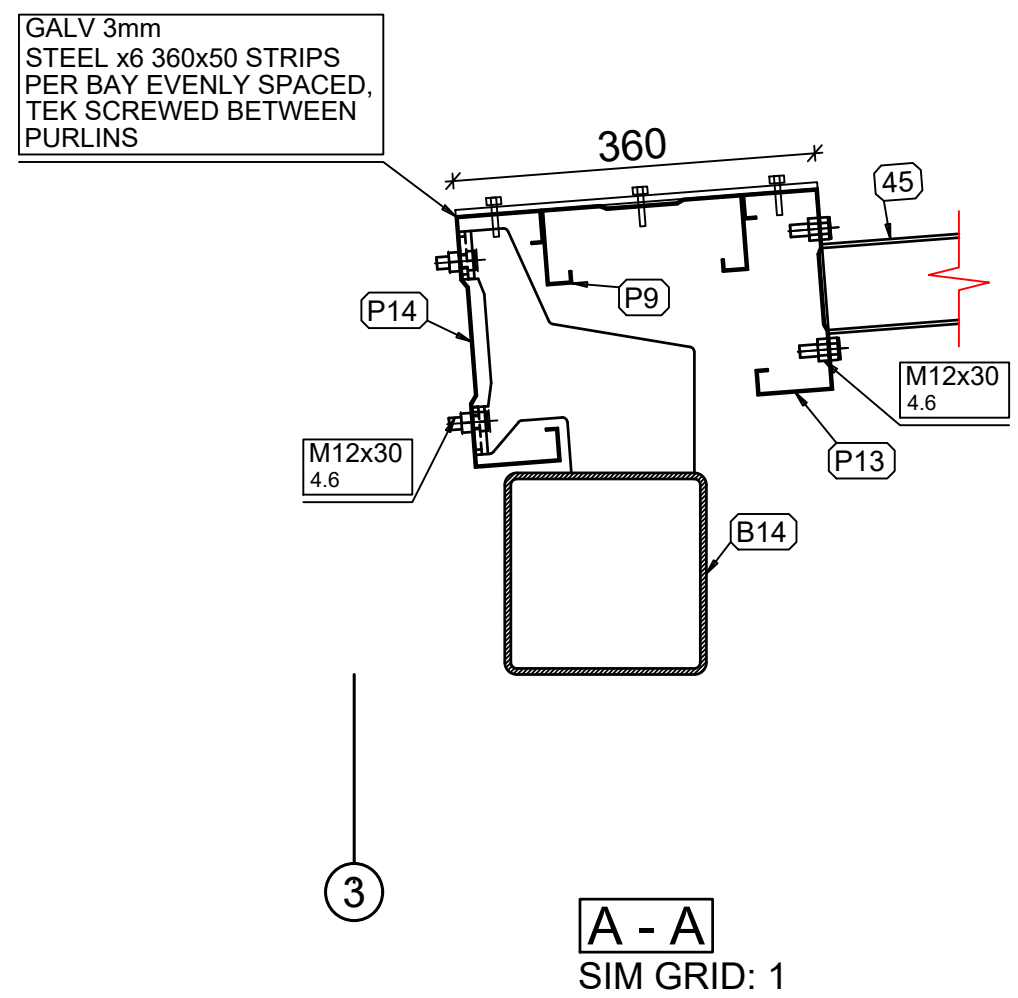
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G DETAIL
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H DETAIL
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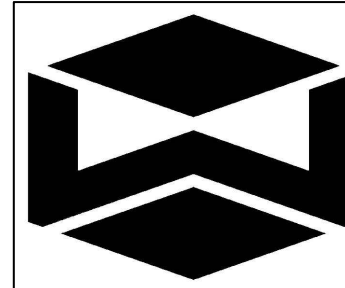
I DETAIL
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Mark	Part Name	ASM Weight
15	STD METALCRAFT BRIDGE	3.79
17	STD METALCRAFT BRIDGE	5.07
18	STD METALCRAFT BRIDGE	5.73
19	STD METALCRAFT BRIDGE	5.40
20	STD METALCRAFT BRIDGE	1.82
26	STD METALCRAFT BRIDGE	1.68
45	STD METALCRAFT BRIDGE	1.70
51	STD METALCRAFT BRIDGE	5.06
52	STD METALCRAFT BRIDGE	5.72
53	STD METALCRAFT BRIDGE	5.39
B6	200x200x6.0 SHS	348.89
B7	300 PFC	747.97
B13	200x200x6.0 SHS	350.27
B14	200x200x6.0 SHS	240.39
B18	250 PFC	293.70
B22	300 PFC	755.90
B23	300 PFC	755.25
B24	300 PFC	755.25
B25	300 PFC	755.25
B26	310 UB 46.2	402.80
B27	310 UC 118	2118.89
B36	460 UB 82.4	264.45
C3	150x150x6.0 SHS	133.21
C15	250 UC 72.9	697.56
C16	250 UC 72.9	697.56
C17	250 UC 72.9	700.87
C20	360 UB 56.7	723.18
C21	410 UB 59.7	881.49
G6	MSS250/18	12.14
G8	MSS250/18	56.73
G10	MSS250/18	5.89
G11	MSS250/18	43.94
G12	MSS250/18	43.94
G13	MSS250/18	57.61
G22	MSS250/18	2.27
G29	MSS200/15	30.52
G34	MSS250/18	19.48
G35	MSS250/18	57.47
G36	MSS250/18	56.96
G40	MSS300/15	41.89
G46	MSS200/15	30.63
G47	MSS200/15	30.51
G51	MSS250/18	57.60
G52	MSS250/18	56.73
G53	MSS250/18	23.25
G54	MSS250/18	60.01
G55	MSS250/18	60.01
G56	MSS250/18	60.00
G67	MSS250/18	50.01
G68	MSS250/18	18.86
G69	MSS250/18	52.36
G70	MSS250/18	52.52
G71	MSS250/18	52.52
G72	MSS250/18	22.97
G79	MSS250/18	81.15
G83	MSS250/18	57.47
G84	MSS250/18	56.96
G87	MSS250/18	18.98
G89	MSS250/18	50.01
G92	MSS250/18	50.01
G93	MSS250/18	50.01
G98	MSS300/15	41.89
G99	MSS300/15	41.89
HD1	42.4x3.2 CHS	99.48
HD2	42.4x3.2 CHS	140.51
P1	MSS300/18	76.00
P3	MSS300/18	75.99
P7	MSS250/18	63.22
P9	MSS200/18	35.38
P13	MSS200/18	35.37
P14	MSS250/18	42.92
P15	MSS250/18	56.82
P18	MSS250/18	56.28
PA1	150x150x12 EA	4.02
PL4	80 x 170 x 10 PL	2.60
RB6	RB 20	31.14
RB14	RB 20	31.10
RB15	RB 20	31.31
RB17	ReidBrace Set RB20	0.00
SG1	230 PFC	595.18

C	17/04/2023	BSW	IFC		
B	28/03/2023	BSW	IFA#2		
A	1/03/2023	BSW	IFA		
Index	Date	Author	Description		
	Date	Name	Model DWG - Biomass		Status Comment
Order	15/01/2023		Engineer	SAMPLE	Revision Date
Detailer	1/03/2023	BSW	Architect	SAMPLE	17/04/2023
Scale		@A1	Project No. T.B.C		Drawing Num. 1021
1:15,1:7.5,1:75					C
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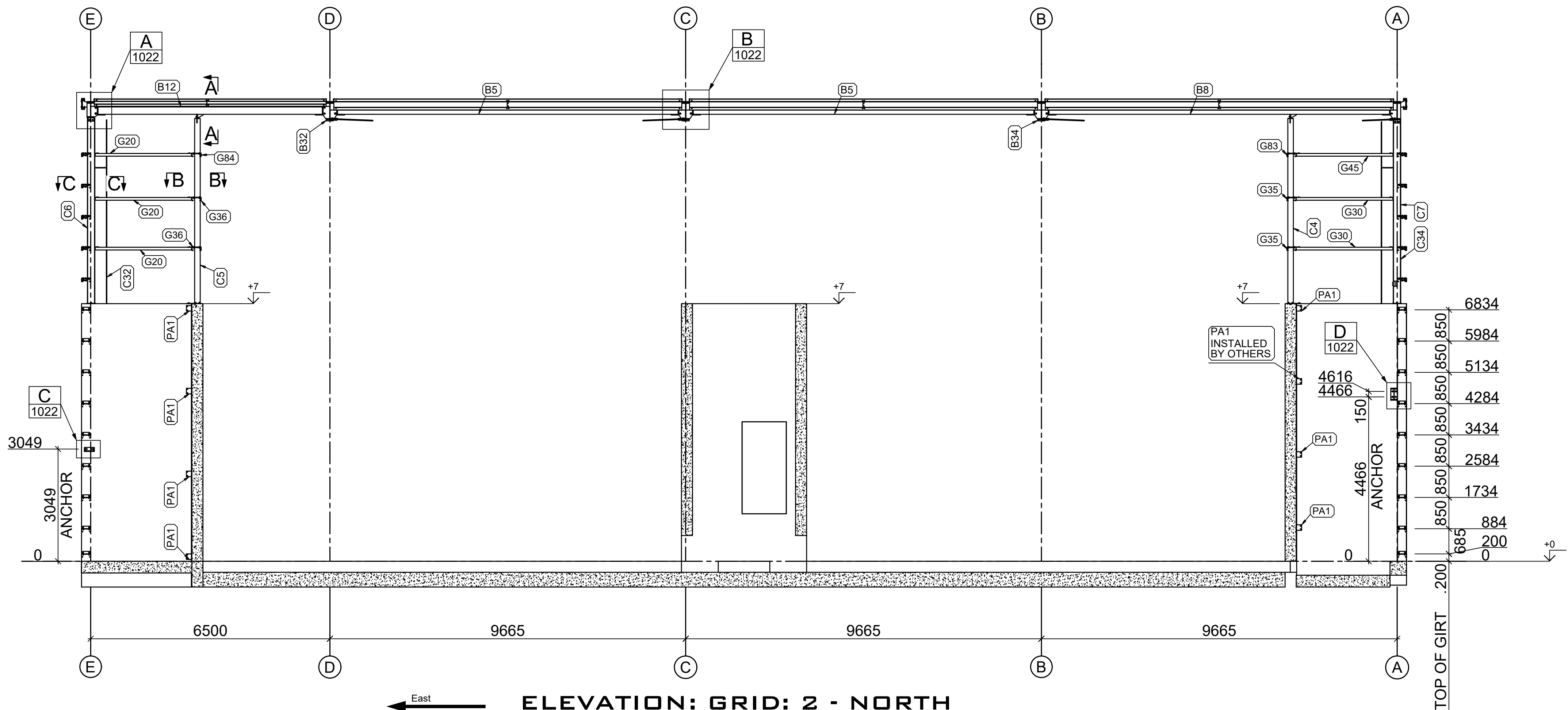
NOTE: TREAT ALL DETAILS AS TYPICAL

ALL TIMBER & CONCRETE ONLY DRAWN AS REFERENCE - REFER TO ARCHITECTS & ENGINEERS PLANS FOR FURTHER DETAILS

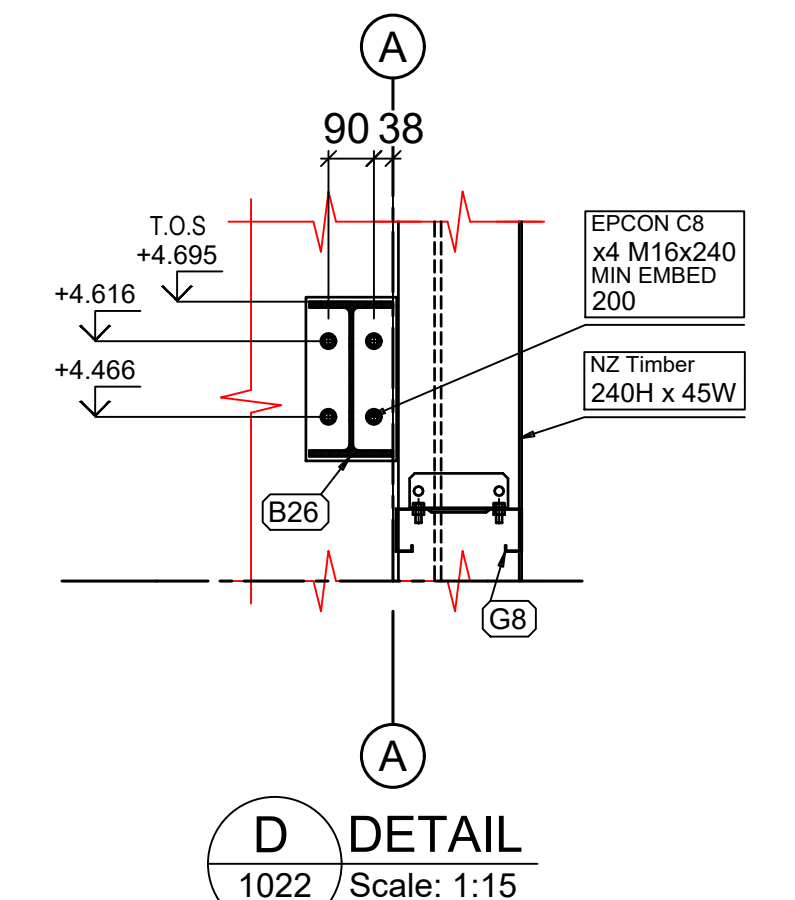
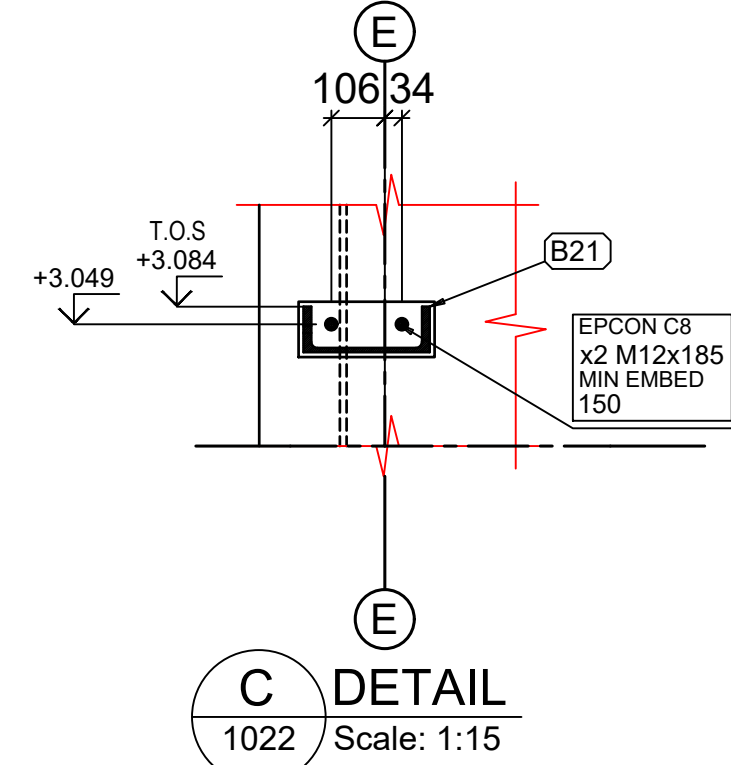
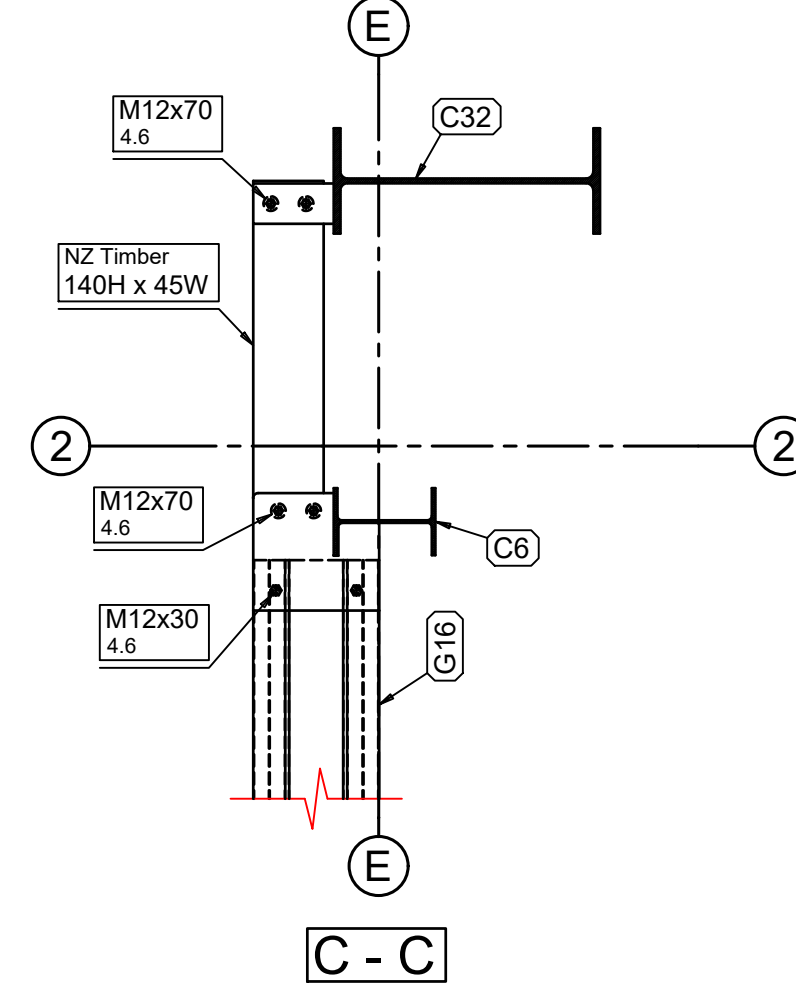
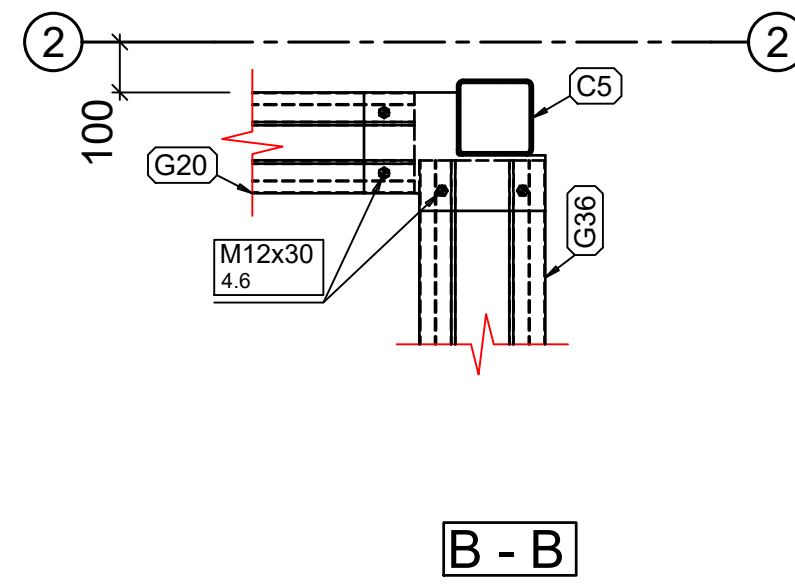
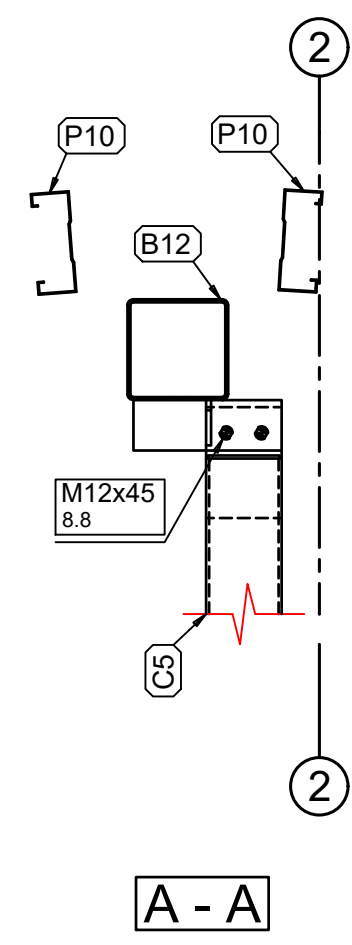
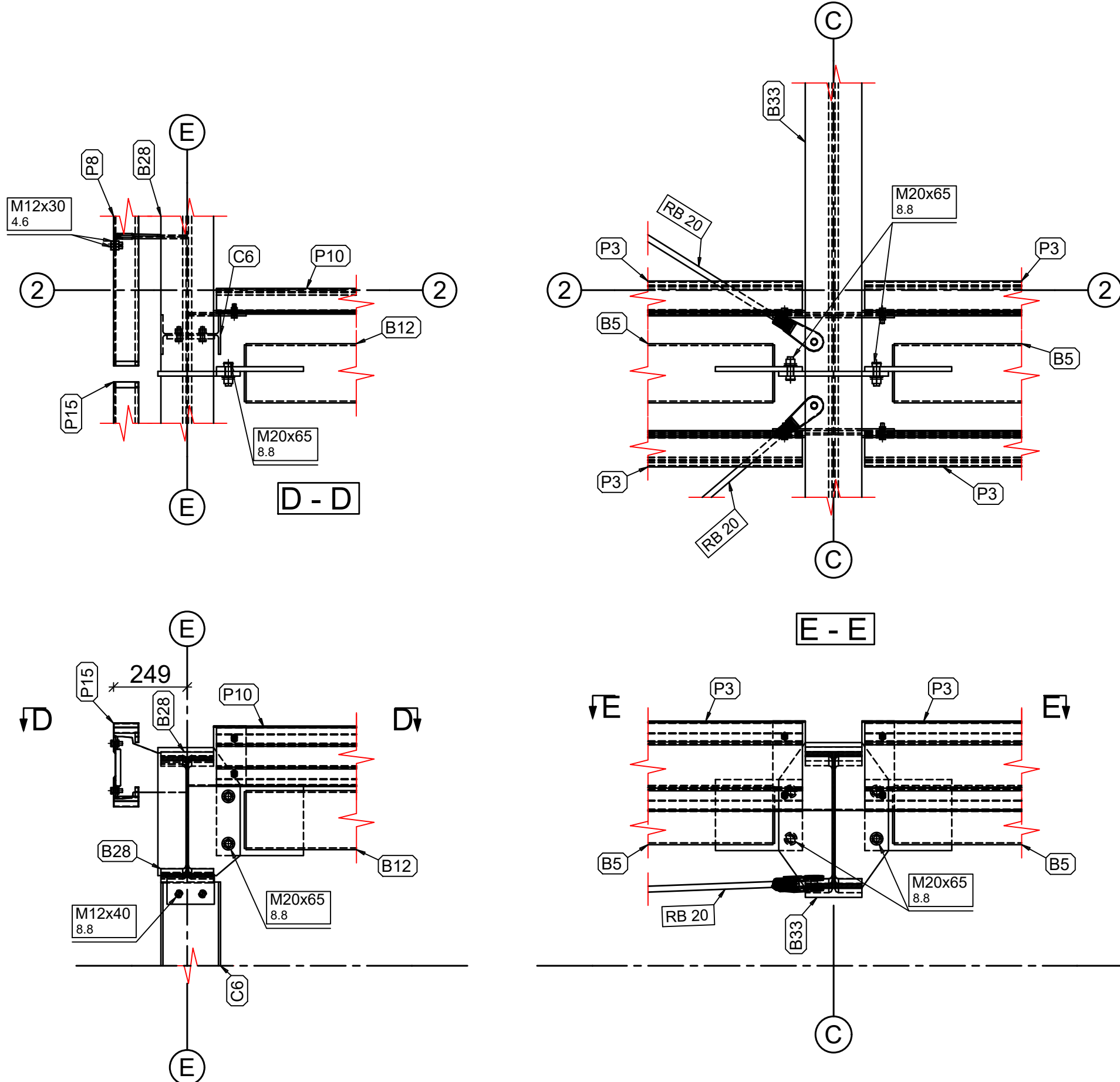


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W: 3DCAD.CO.NZ



ELEVATION: GRID: 2 - NORTH
BOLT TYPE & MAIN PART NUMBER
SCALE: 1:75



A DETAIL
1022 Scale: 1:15

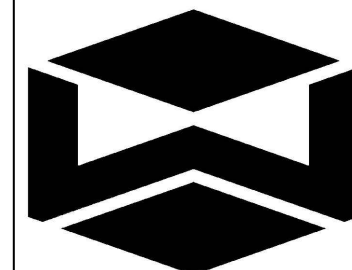
B DETAIL
1022 Scale: 1:15

C DETAIL
1022 Scale: 1:15

D DETAIL
1022 Scale: 1:15

NOTE: TREAT ALL DETAILS AS TYPICAL

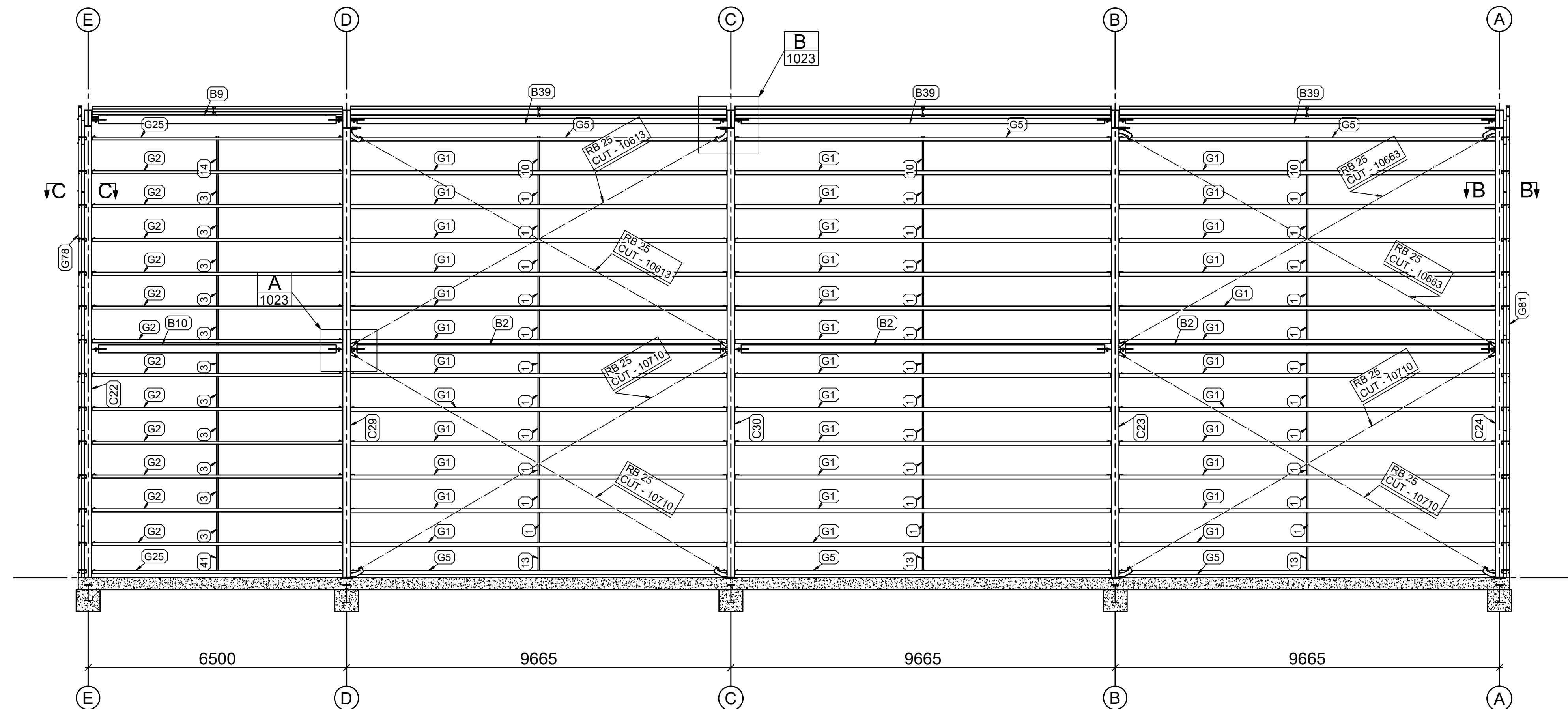
ALL TIMBER & CONCRETE ONLY DRAWN AS REFERENCE - REFER TO ARCHITECTS & ENGINEERS PLANS FOR FURTHER DETAILS



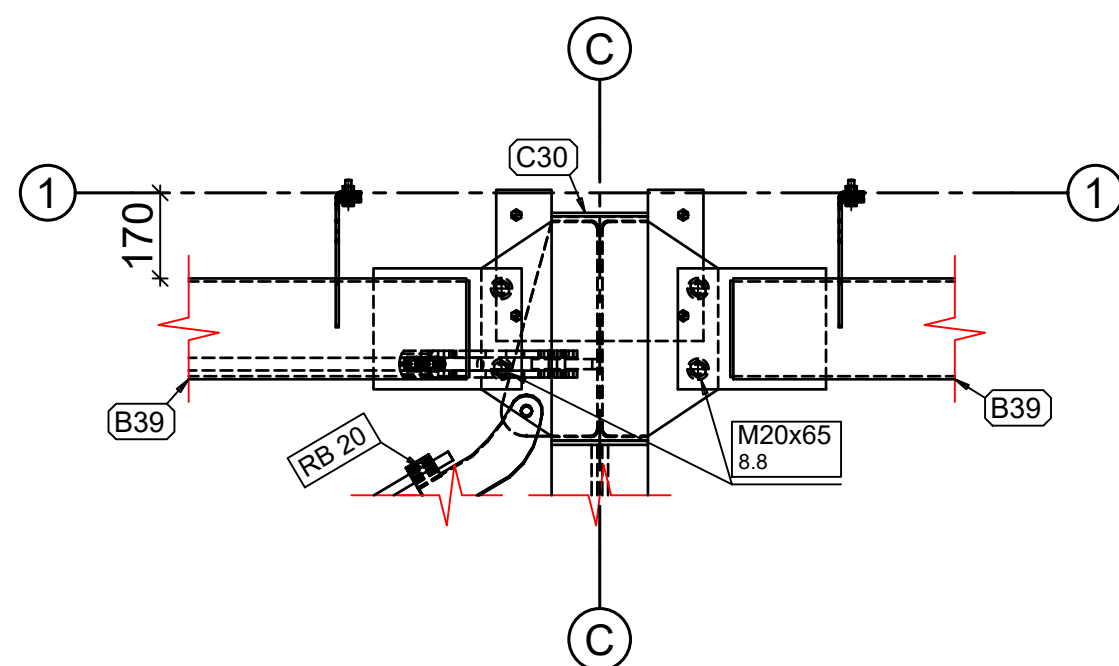
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C	17/04/2023	BSW	IFC	
B	28/03/2023	BSW	IFA#2	
A	1/03/2023	BSW	IFA	
Index	Date	Author	Description	
	Date	Name	Model DWG - Biomass	Status Comment
Order	15/01/2023		Engineer SAMPLE	Revision Date
Detailer	1/03/2023	BSW	Architect SAMPLE	17/04/2023
Scale		@A1	Project No.	Drawing Num.
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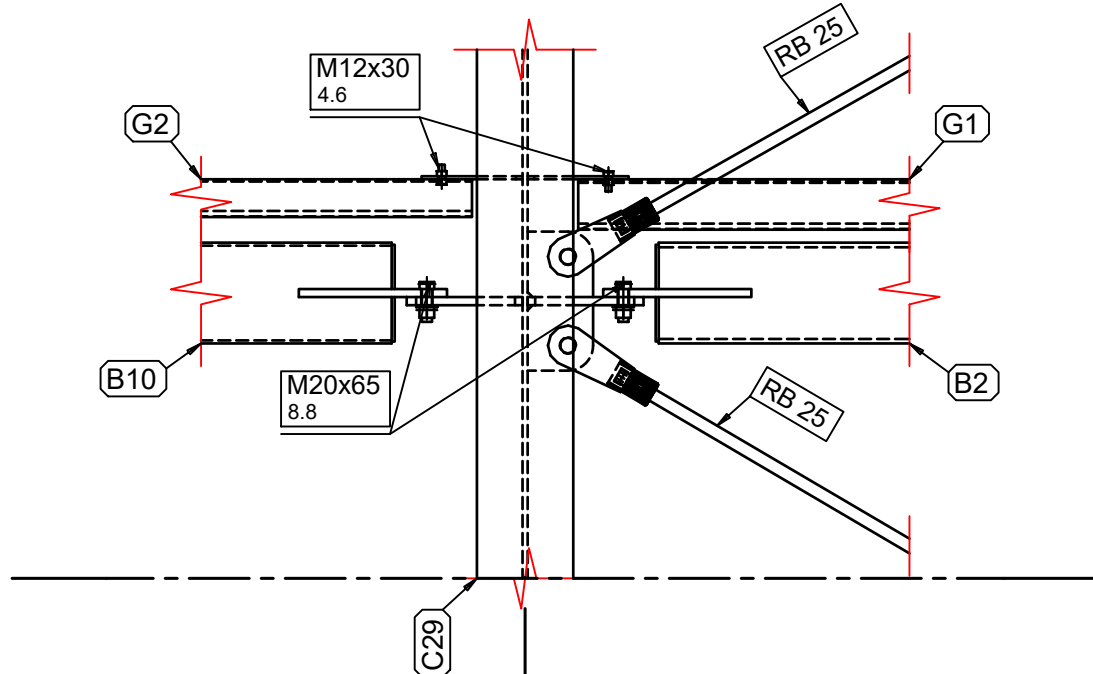
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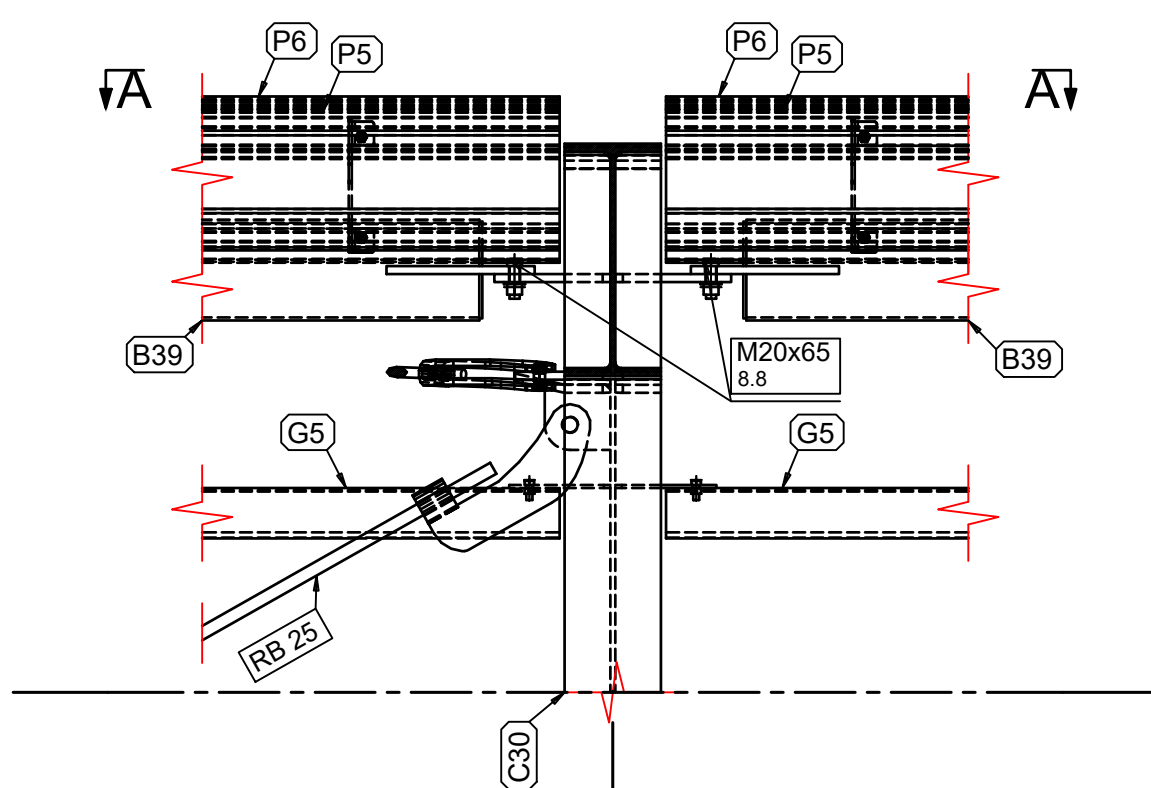
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BOLT TYPE & MAIN PART NUMBER
SCALE: 1:75



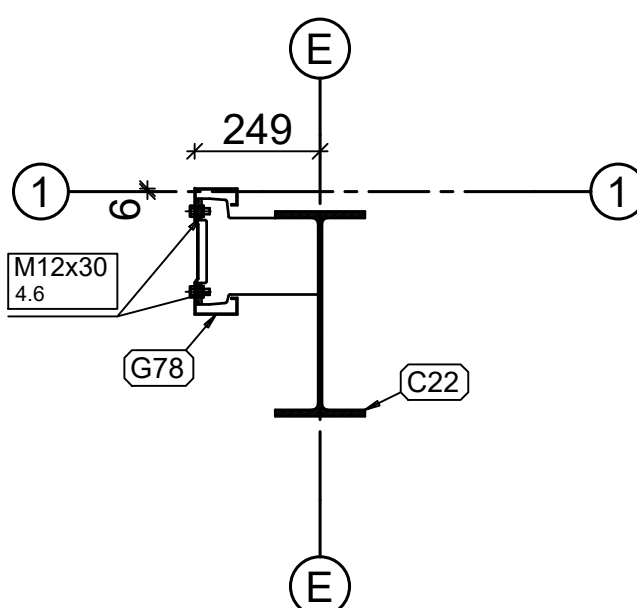
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PURLINS OMITTED
FOR CLARITY



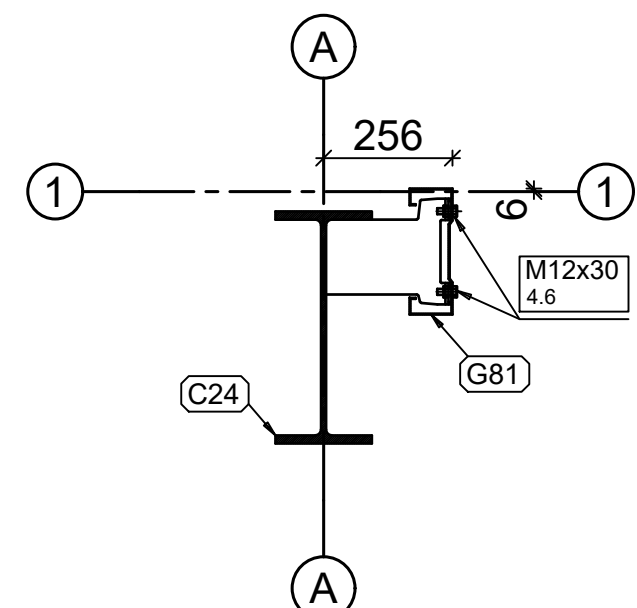
A
1023
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B
1023
Scale: 1:15



C - C

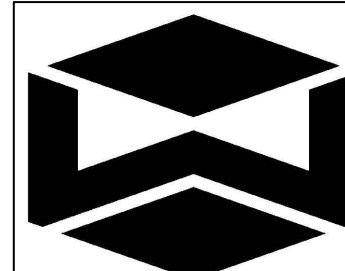


B - B

Mark	Part Name	ASM Weight
1	STD METAL CRAFT BRIDGE	3.58
3	STD METAL CRAFT BRIDGE	3.59
10	STD METAL CRAFT BRIDGE	3.58
13	STD METAL CRAFT BRIDGE	2.95
14	STD METAL CRAFT BRIDGE	3.59
24	STD METAL CRAFT BRIDGE	2.96
41	STD METAL CRAFT BRIDGE	2.96
50	STD METAL CRAFT BRIDGE	3.50
B2	200x200x9.0 SHS	493.11
B3	200x200x6.0 SHS	350.52
B9	200x200x6.0 SHS	238.37
B10	200x200x6.0 SHS	232.76
B15	200x200x6.0 SHS	245.39
B39	200x200x6.0 SHS	351.01
C22	410 UB 59.7	891.01
C23	460 UB 82.1	1220.21
C24	460 UB 82.1	1228.90
C29	460 UB 82.1	1206.10
C30	460 UB 82.1	1220.21
G1	MSS300/15	63.23
G2	MSS200/15	29.45
G3	MSS200/15	20.77
G5	MSS300/15	63.23
G7	MSS200/15	21.02
G21	MSS200/15	1.91
G25	MSS200/15	29.45
G26	MSS200/15	20.77
G41	MSS200/15	21.01
G42	MSS200/15	21.02
G43	MSS200/15	21.02
G78	MSS250/18	80.57
G81	MSS250/18	80.64
P4	MSS300/18	76.01
P5	MSS300/18	76.00
P6	MSS300/18	76.00
P8	MSS250/18	40.89
P9	MSS200/18	35.38
P11	MSS200/18	35.37
P17	MSS250/18	40.89
P19	MSS300/18	50.60
RB1	RB 20	26.40
RB3	RB 25	41.27
RB7	RB 25	41.09
RB9	ReidBrace Set RB25	0.00
RB10	RB 25	40.90
RB17	ReidBrace Set RB20	0.00

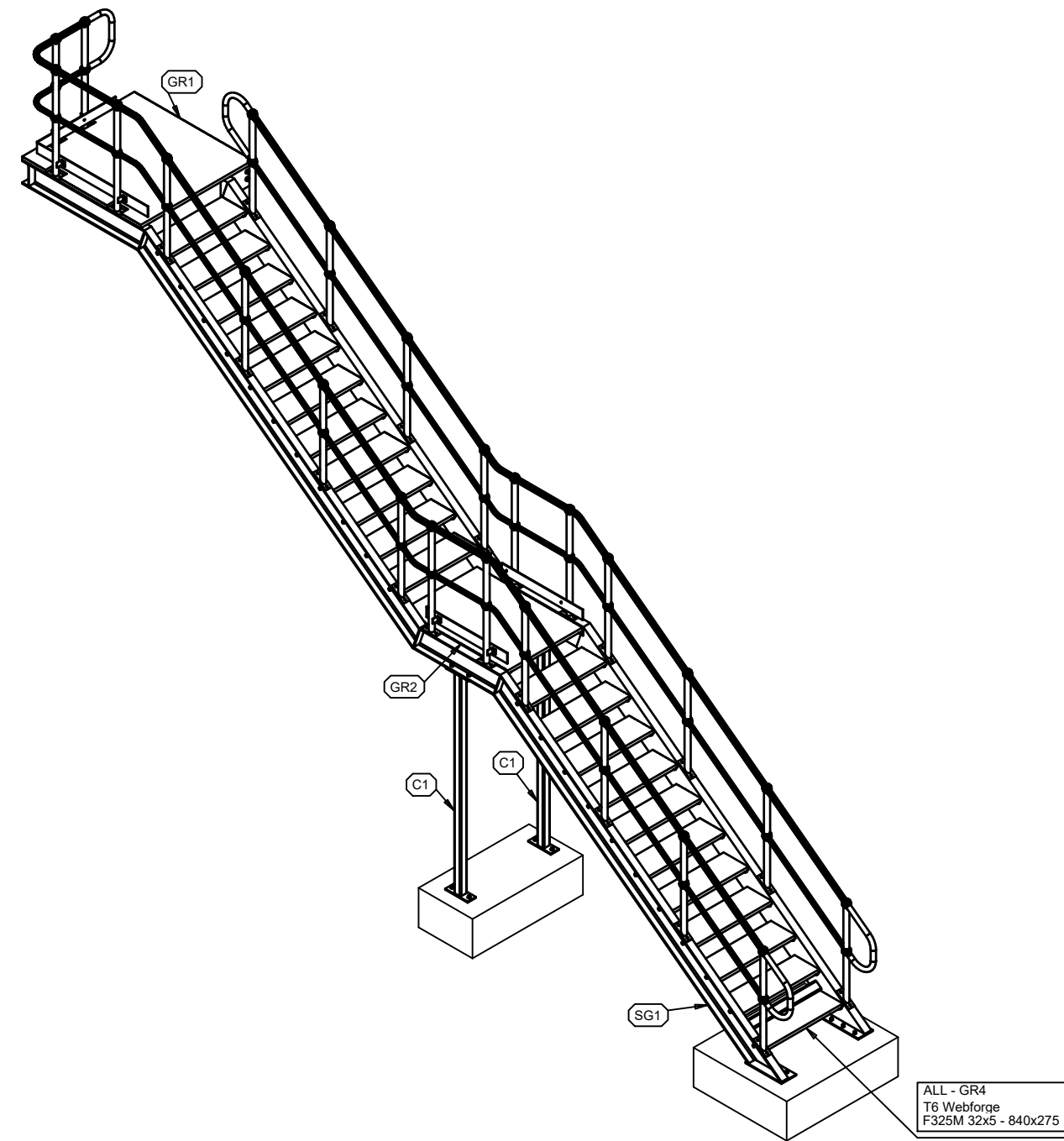
NOTE: TREAT ALL DETAILS AS TYPICAL

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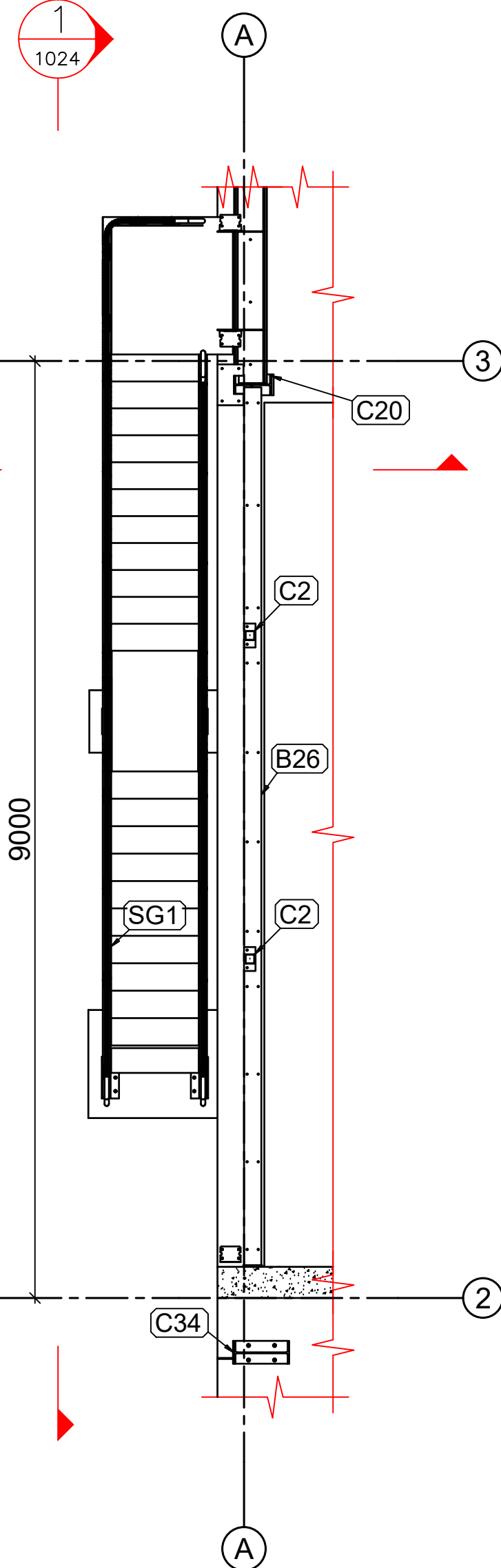


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E: BRAD@3DCAD.CO.NZ
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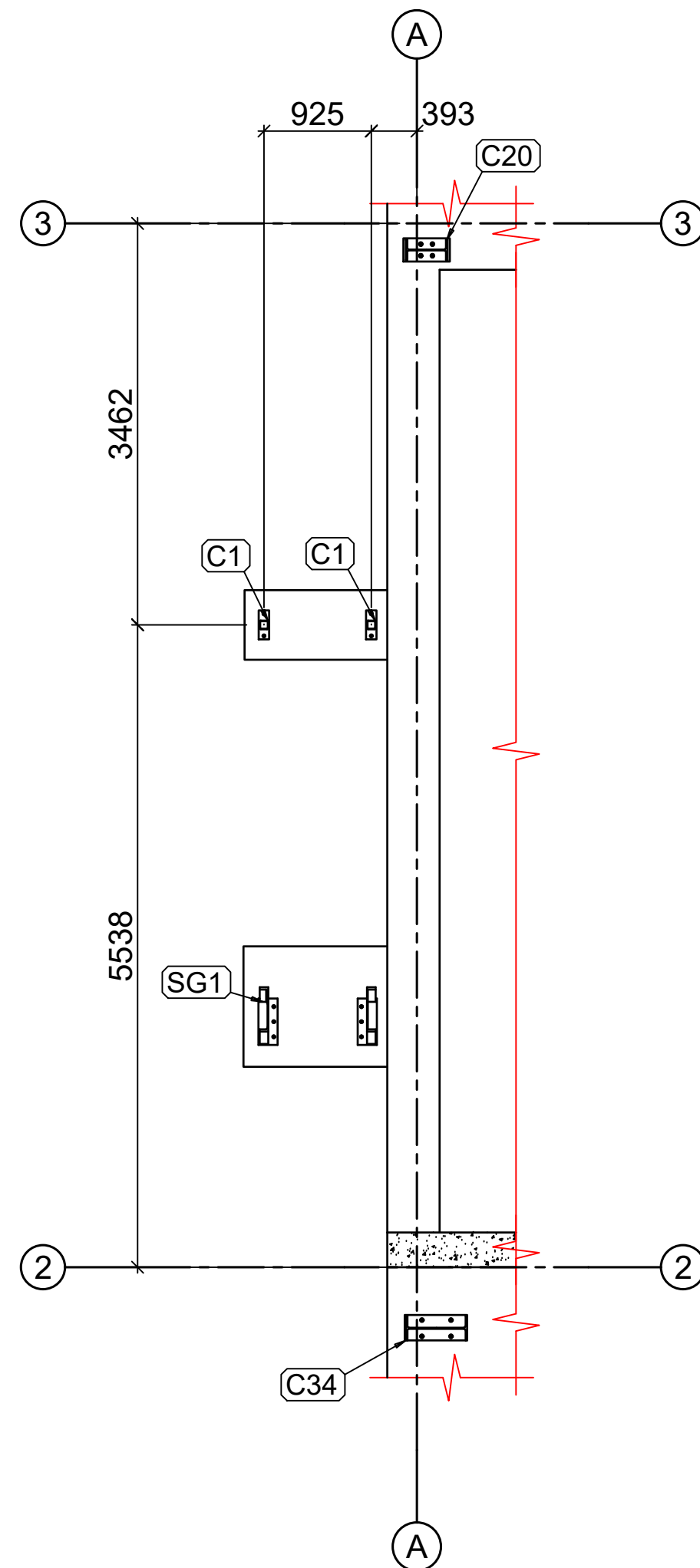
D	17/04/2023	BSW	IFC	
C	17/04/2023	BSW	IFC	
B	28/03/2023	BSW	IFA#2	
A	1/03/2023	BSW	IFA	
Index	Date	Author	Description	
	Date	Name	Model DWG - Biomass	Status Comment
Order	15/01/2023	Engineer	SAMPLE	Revision Date
Detailer	1/03/2023	BSW	Architect	SAMPLE 17/04/2023
Scale	1:15, 1:75	@A1	Project No. 1023	Drawing Num. 1023
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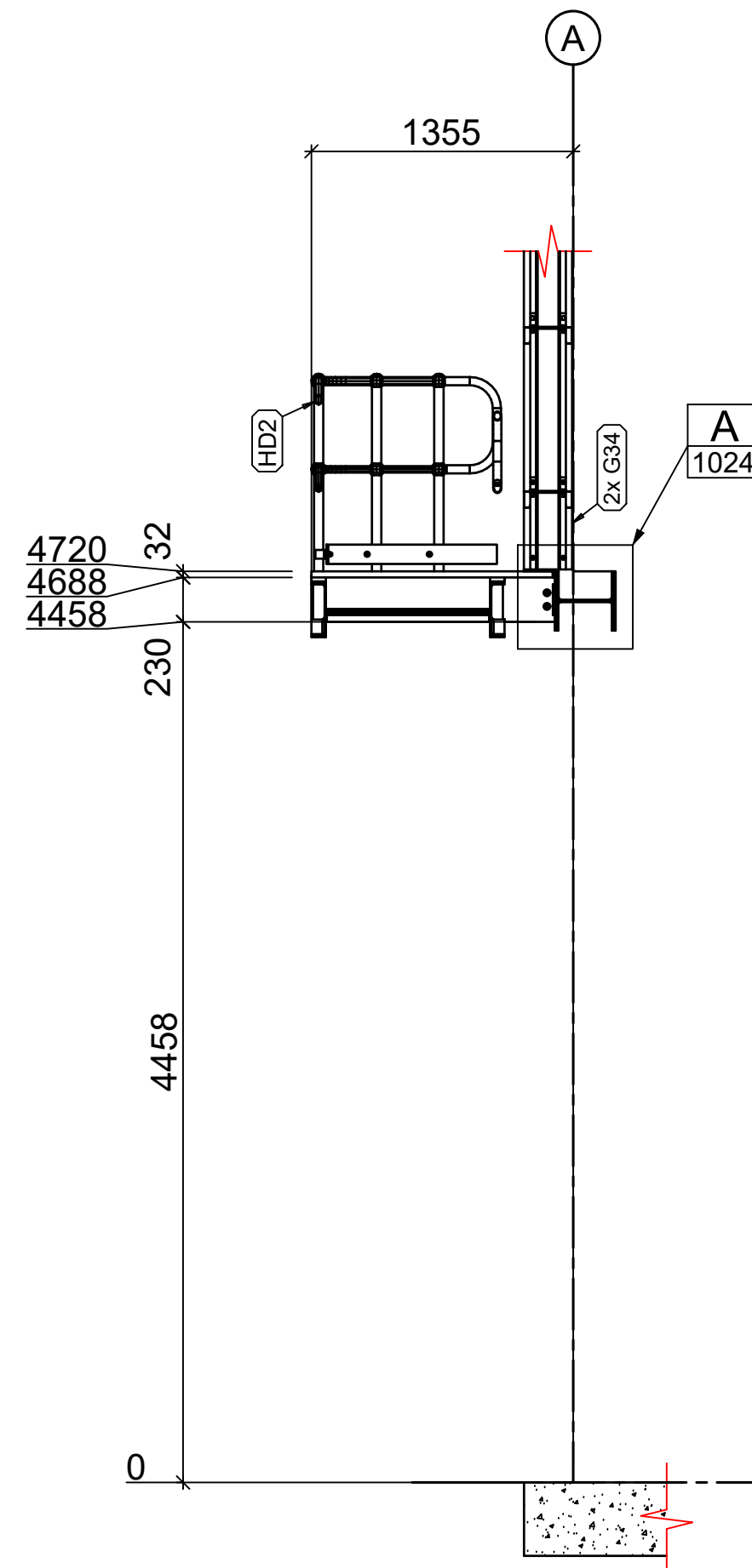
3D PERSPECTIVE
MAIN PART NUMBER
SCALE: 1:50



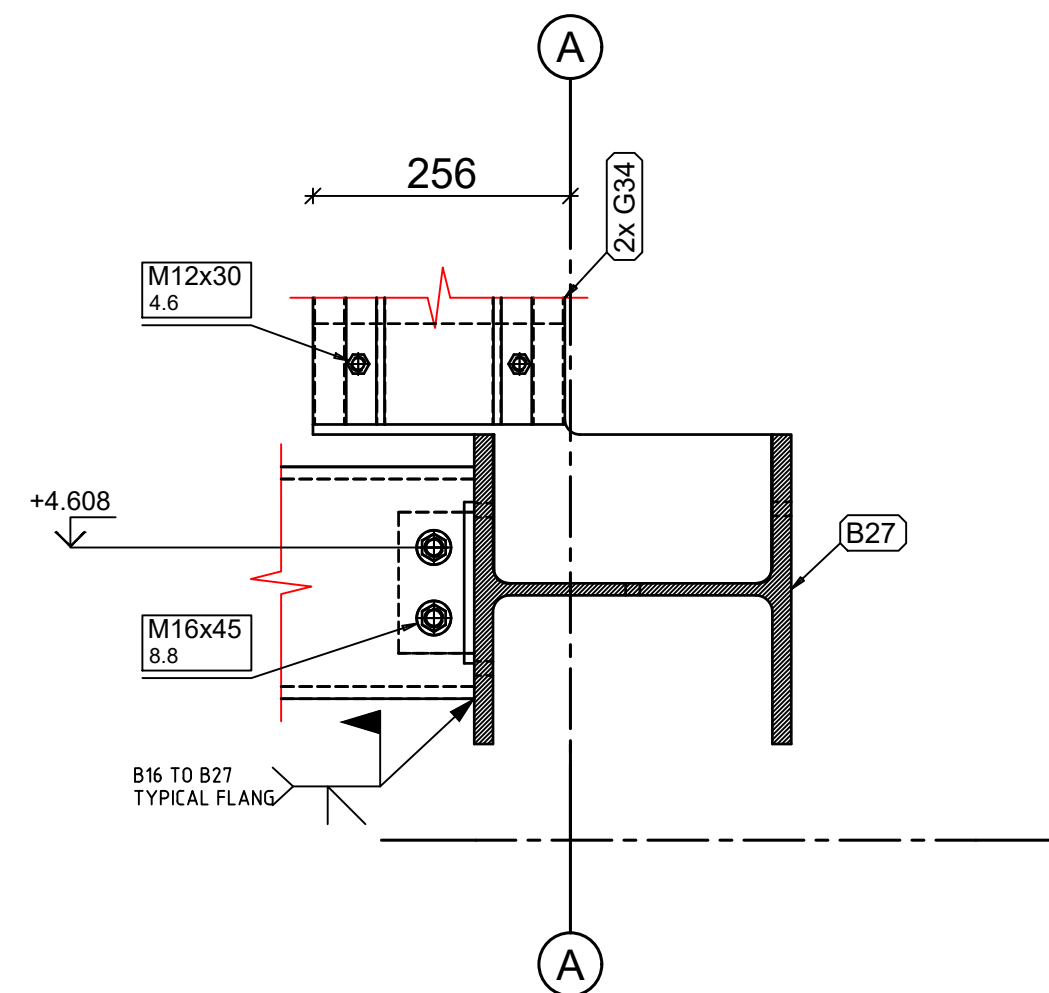
PLAN VIEW
MAIN PART NUMBER & GRIDLINES
SCALE: 1:50



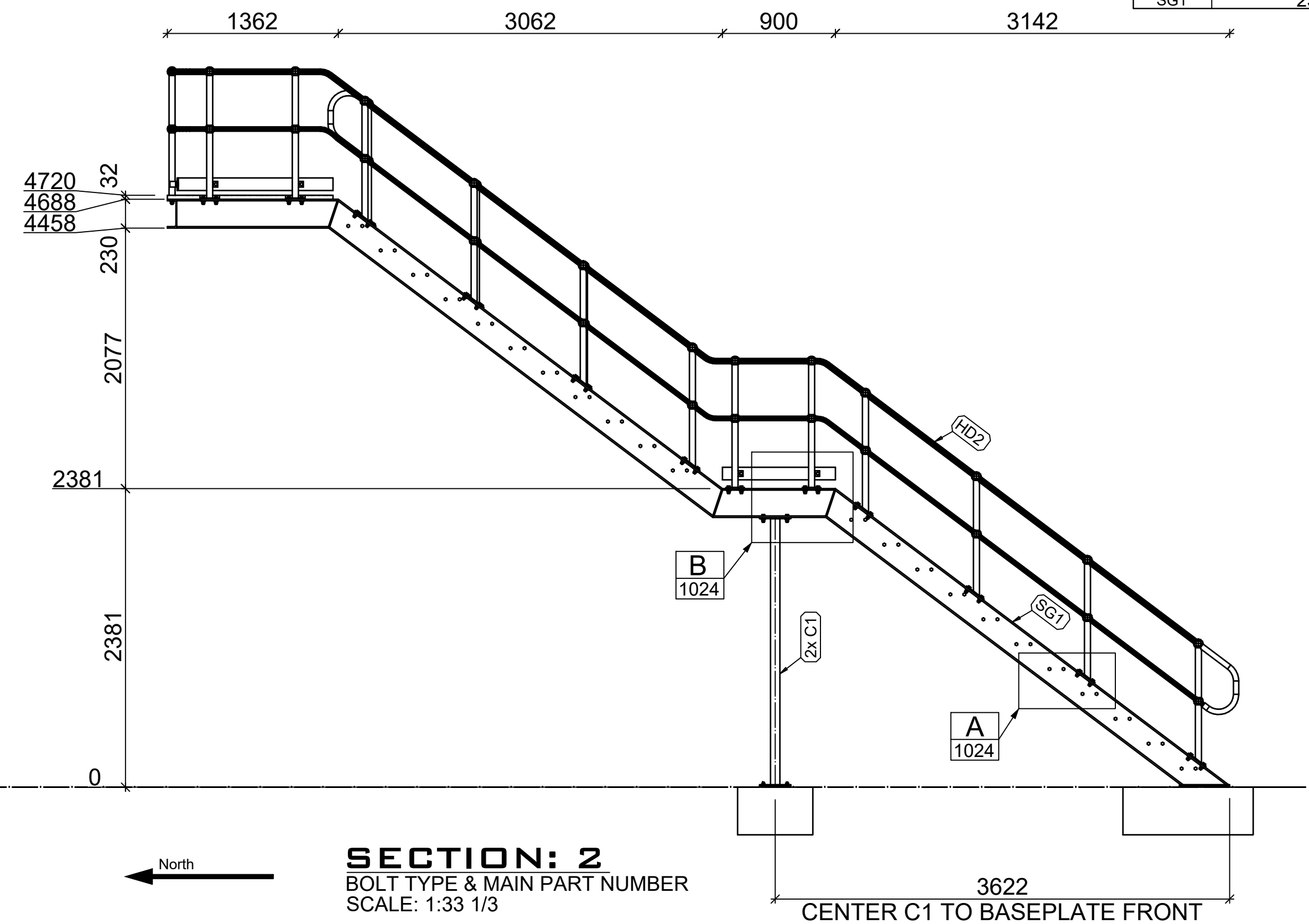
BASEPLATE LAYOUT
COLUMN CENTERS & MAIN PART NUMBER
SCALE: 1:50



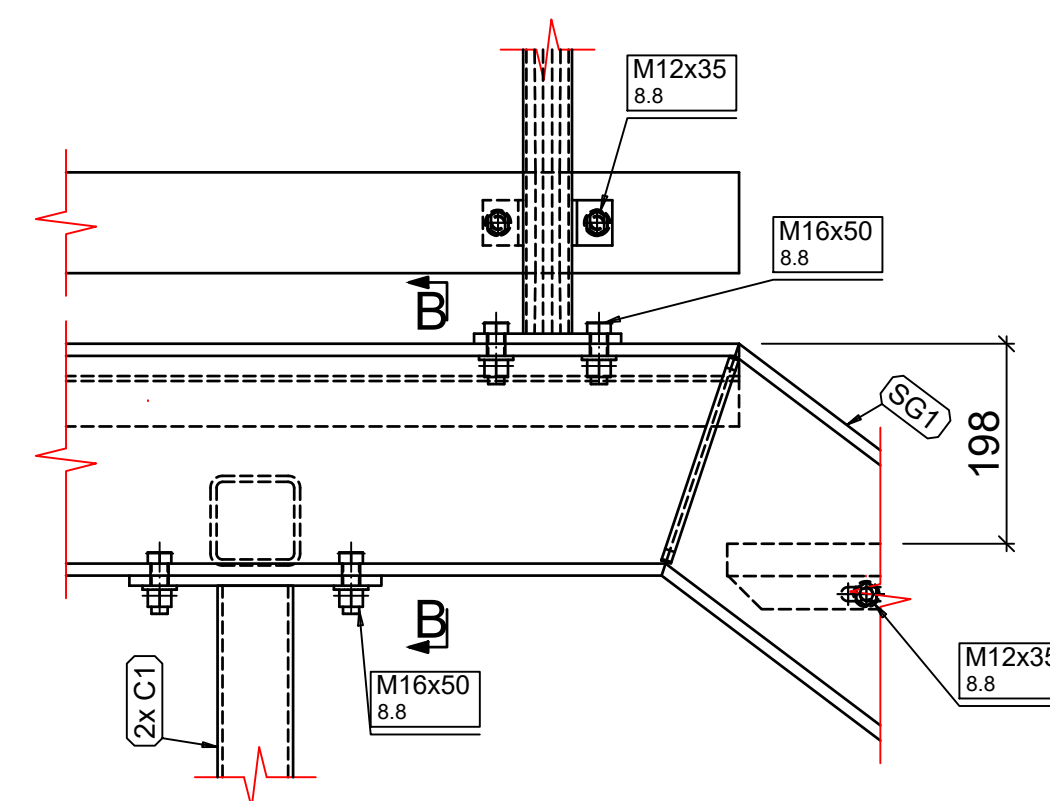
SECTION: 1
BOLT TYPE & MAIN PART NUMBER
SCALE: 1:33 1/3



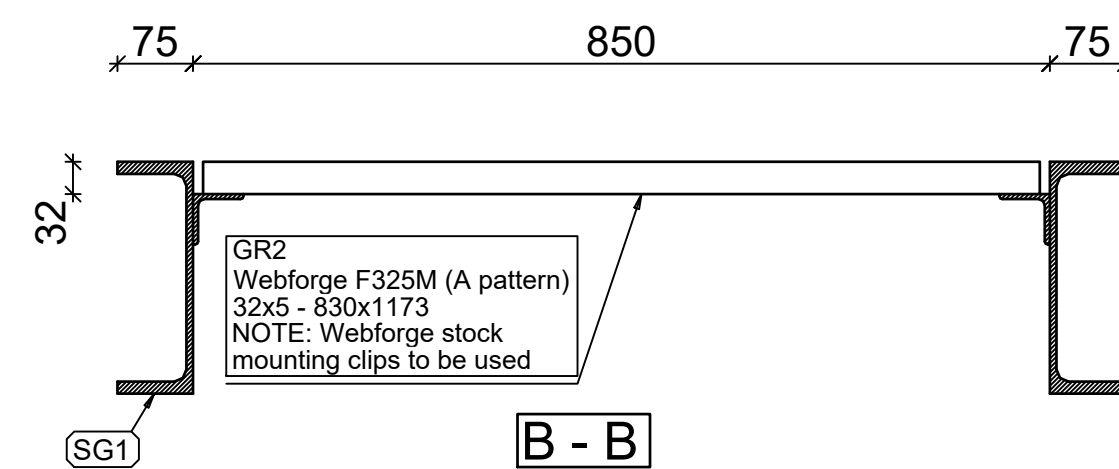
A DETAIL
1024 Scale: 1:7.5



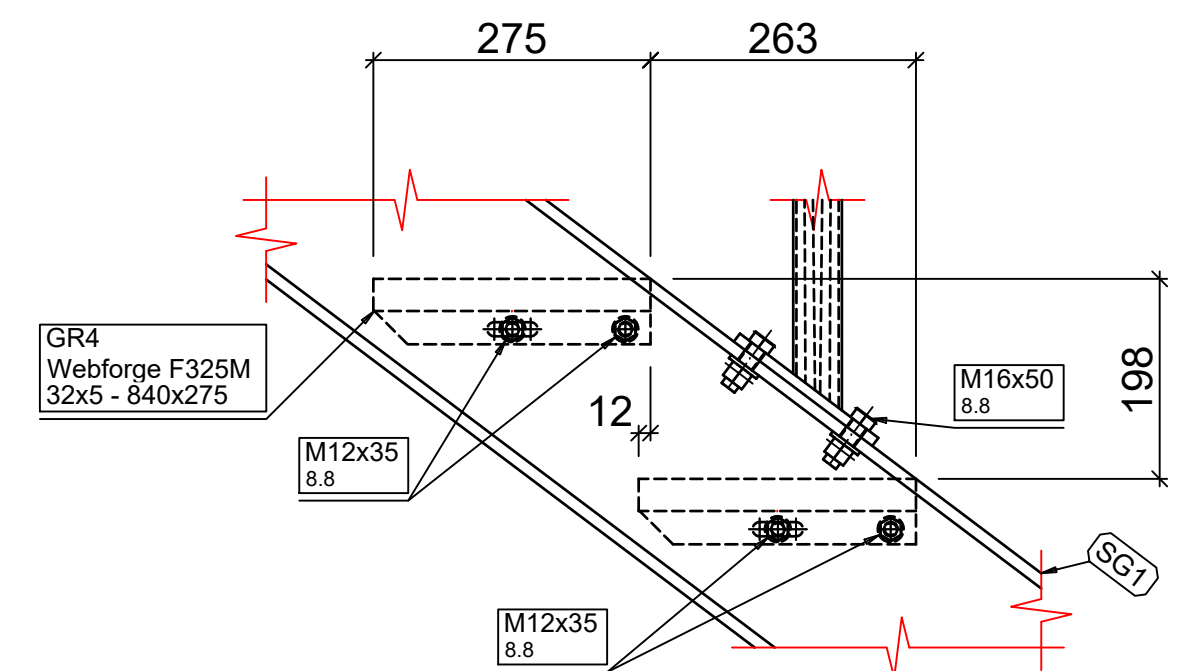
SECTION: 2
BOLT TYPE & MAIN PART NUMBER
SCALE: 1:33 1/3



B DETAIL
1024 Scale: 1:7.5



B - B



A DETAIL
1024 Scale: 1:7.5

Mark	Part Name	ASM Weight
S	STD METAL CRAFT BRIDGE	3.58
44	STD METAL CRAFT BRIDGE	2.88
B26	310 UB 46.2	402.80
B27	310 UC 118	2118.89
C1	75x75x5.0 SHS	25.02
C2	89x89x3.5 SHS	27.80
C20	360 UB 56.7	723.18
C34	530 UB 82.0	1013.39
G8	MSS250/18	56.73
G22	MSS250/18	2.27
G34	MSS250/18	19.48
G52	MSS250/18	56.73
G58	MSS250/18	49.95
G75	MSS250/18	49.96
G76	MSS250/18	49.96
HD1	42.4x3.2 CHS	99.48
HD2	42.4x3.2 CHS	140.51
PA2	GPB250	0.00
SG1	230 PFC	595.18

ALL TIMBER & CONCRETE ONLY DRAWN AS REFERENCE - REFER TO ARCHITECTS & ENGINEERS PLANS FOR FURTHER DETAILS

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C	17/04/2023	BSW	IFC		
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Scale	@A1		Project No.	Drawing Num.	
1:33 1/3, 1:50, 1:7.5			T.B.C	1024	
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