

P23-027 The Range Stowmarket

Drawing Register:

*Please note: All drawings listed below are hyperlinked to the drawings listed.
Please click on the drawing title to go directly to the drawing of your choice.*

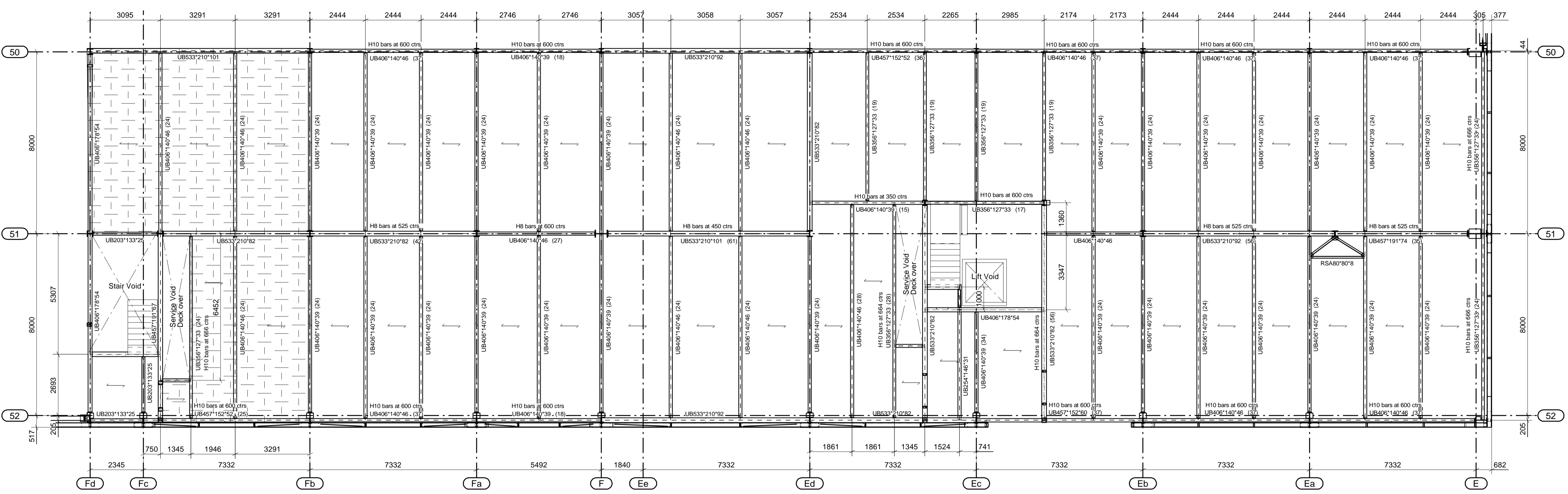
Works Completed:

Drawing No.	Drawing Title	Rev
P22036-CEL-01-ZZ-DR-X-0009	Office Floor Plans Caunton	B01
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P22036-CEL-W1-RF-DR-X-0011	Warehouse Roof Plan	B01
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P22036-CEL-W1-ZZ-DR-X-0013	Elevation on Grid Line 52	B01
P22036-CEL-W1-ZZ-DR-X-0014	Elevation on Grid Line 41 and 46a	B01
P22036-CEL-W1-ZZ-DR-X-0015	Elevation on Grid Line C	B01
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P22036-CEL-W1-ZZ-DR-X-0020	Distribution Office 1 Section and Elevations	B01
P22036-CEL-W1-ZZ-DR-X-0021	Distribution Office 2 Section and Elevations	B01
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P22036-CEL-W1-ZZ-DR-X-0025	Welfare Office	B01
P22036-CEL-W1-ZZ-DR-X-0501	General Arrangement Showing Roof Maintenance Access Ladder Grid-C-22-23	B01
P22036-CEL-W1-ZZ-DR-X-0502	General Arrangement Showing Dock Stairs Type 1a & 1b	B01
P22036-CEL-W1-ZZ-DR-X-0503	General Arrangement Showing External Stair Type 2a	B01
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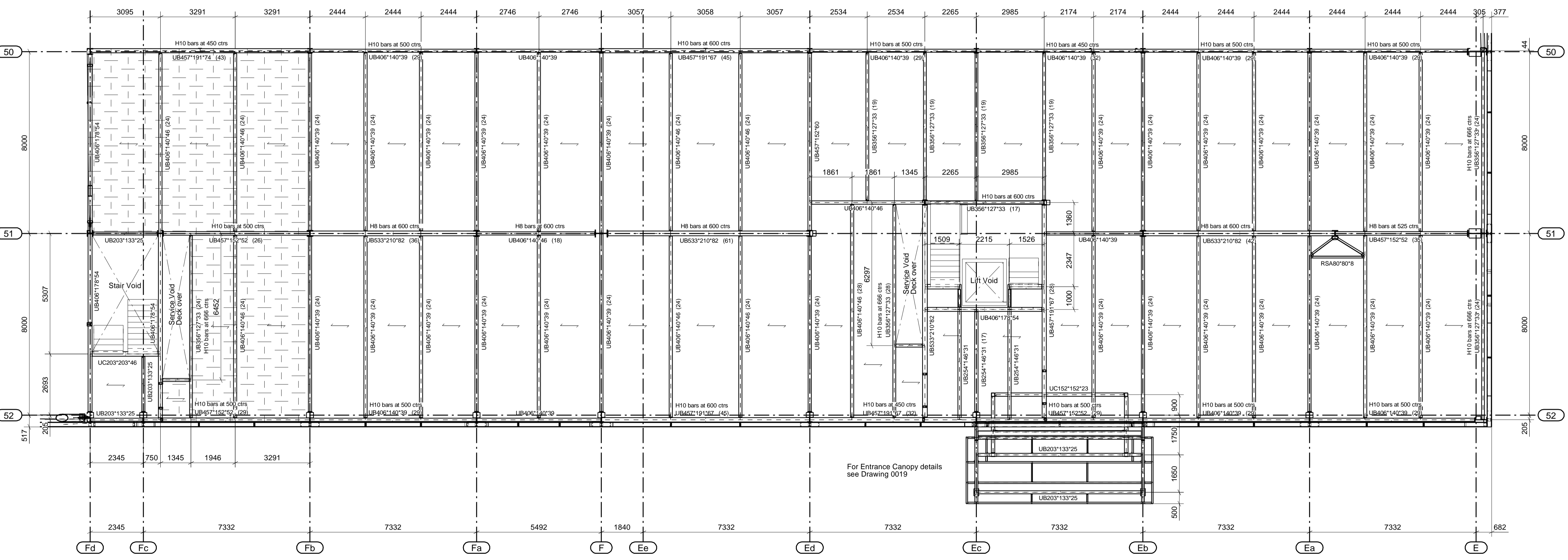
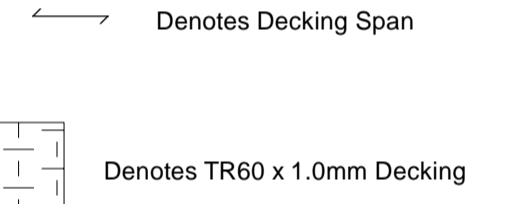
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- Project Notes**
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 - The Lead Designer for this project has responsibility for approving this drawing
 - The steel frame shown on this drawing has been designed to Eurocode 3
 - The steel frame shown on this drawing will be erected in accordance with the tolerances specified in the current NBS (National Structural Steelwork Specification)
 - Any queries relating to information on this drawing are to be referred, in the first instance to the Lead Designer
 - This drawing is to be read in conjunction with all information produced by the Lead Designer, Architect, Engineer and all other specialist trade contractors employed on this project
 - It should not be assumed the steel frame shown on this drawing has been coordinated with other specialist trade contractors regarding construction interfaces. Any queries should be raised with the Lead Designer
 - It is the responsibility of all specialist trade contractors to ensure they understand the tolerances defined in the current NBS. Other specialist trade contractors must make provision in the design and construction of their works, including checking dimensions and positions on site if necessary, to deal with any potential conflict of tolerances which may arise.

- Decking Notes**
- Metal decking to be TR60x0.8mm, Grade S350 UNO
 - Decking to be double-clip span U.A.I.O.
 - Concrete grade to be C30/37, 150mm thick
 - Shear studs are 19mm diameter in accordance with EN ISO 13198
 - Fire resistance period 60 minutes to suit project
 - Min mesh A363 cover 25mm from top of slab
 - Please note the use of flying ends may be required to achieve the minimum concrete cover
 - Caution Engineering Limited (CEL) are responsible for the design of metal decking in temporary and permanent conditions. CEL will also advise the minimum concrete strength, depth and reinforcement required for our composite beam design and to achieve the minimum fire resistance period. CEL will also design the slab including reinforcement requirements under concentrated loads (where known), at openings and edges, and for anti-crawl requirements. We will prepare all slab and reinforcement drawings and schedules. However, the responsibility for sitework and day joints are to be with others.
 - The supply, delivery and installation of sitework and casting of the slab is to be by others
 - The design responsibility of the floor as a diaphragm is to be with CEL
 - The design of the deck / steel frame does not include for food pouring of concrete. Concrete is to be poured to a constant depth above beam top flanges to a tolerance of +/-10mm. We recommend that the slab is cast in accordance with the guideline set out in the S3 publication P300 'Composite Slabs and beams using steel decking: Best practice for design and construction'
 - Depending on the quality of the slab pour we anticipate a flatness tolerance of SR3 in accordance with BS 5204. (Max 10mm gap below a 2m straight edge)
 - Number in brackets = min number of studs
 - Stud requirements on edge beams - See Drawing
 - If no studs noted provide 1 stud in alternative troughs or 600mm centres.
 - Any slab overhang past flange or support beam to be agreed with Caution Engineering design department.
 - Composite edge beams to have shear studs located no closer than 6d (d = stud diameter) from the free edge of the slab.



Second Floor Plan
Top of Steelwork = 7.650m



First Floor Plan
Top of Steelwork = 3.650m

REV	DESCRIPTION	DATE
001	As-Built Issue	17/10/2023
002	UB 203*133*25	20/10/2023
003	Beam and reinforcement added	03/11/2023
004	Slab and reinforcement added	03/11/2023
005	Decking file added	10/12/2023
006	Preliminary Issue	03/10/2023
007	REVISION OF SCHEMATIC	REV DATE

STATUS : AS BUILT ISSUE



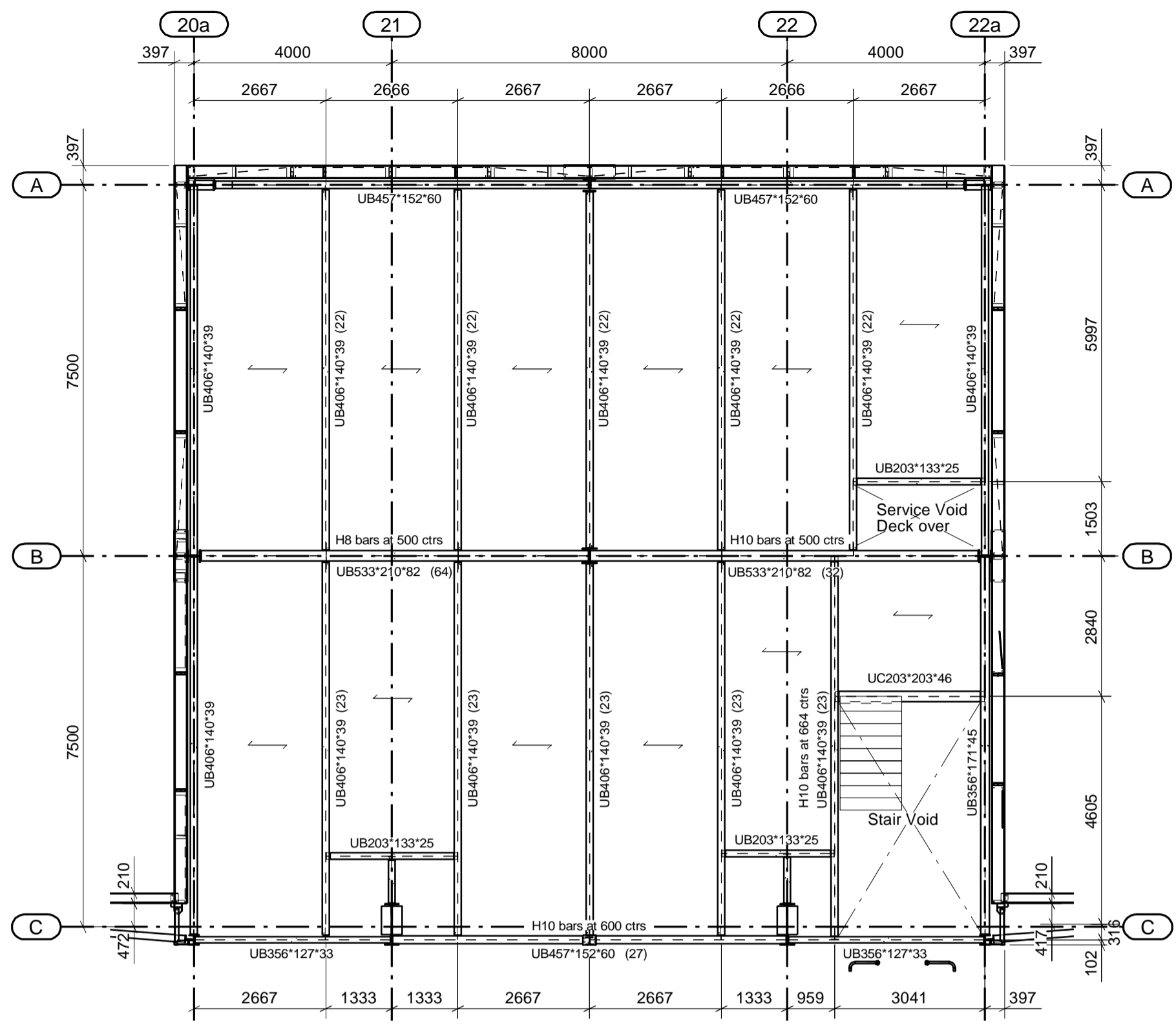
Client: Wincis Construction Ltd
Project: Plot 4000, Gateway 14
Location: Stowmarket, Suffolk
Drawing Title: Office Floor Plans

Scale	Drawn By	Checked By	Rev	Issue No.
1:100	D. Butler	D. Butler	30.01.2023	22019
Drawn By	Project Type	Design & Build	Date Created	
Checked By	Design & Build		Date Revised	
Drawn By	Project Type	Design & Build	Date Created	
Checked By	Design & Build		Date Revised	

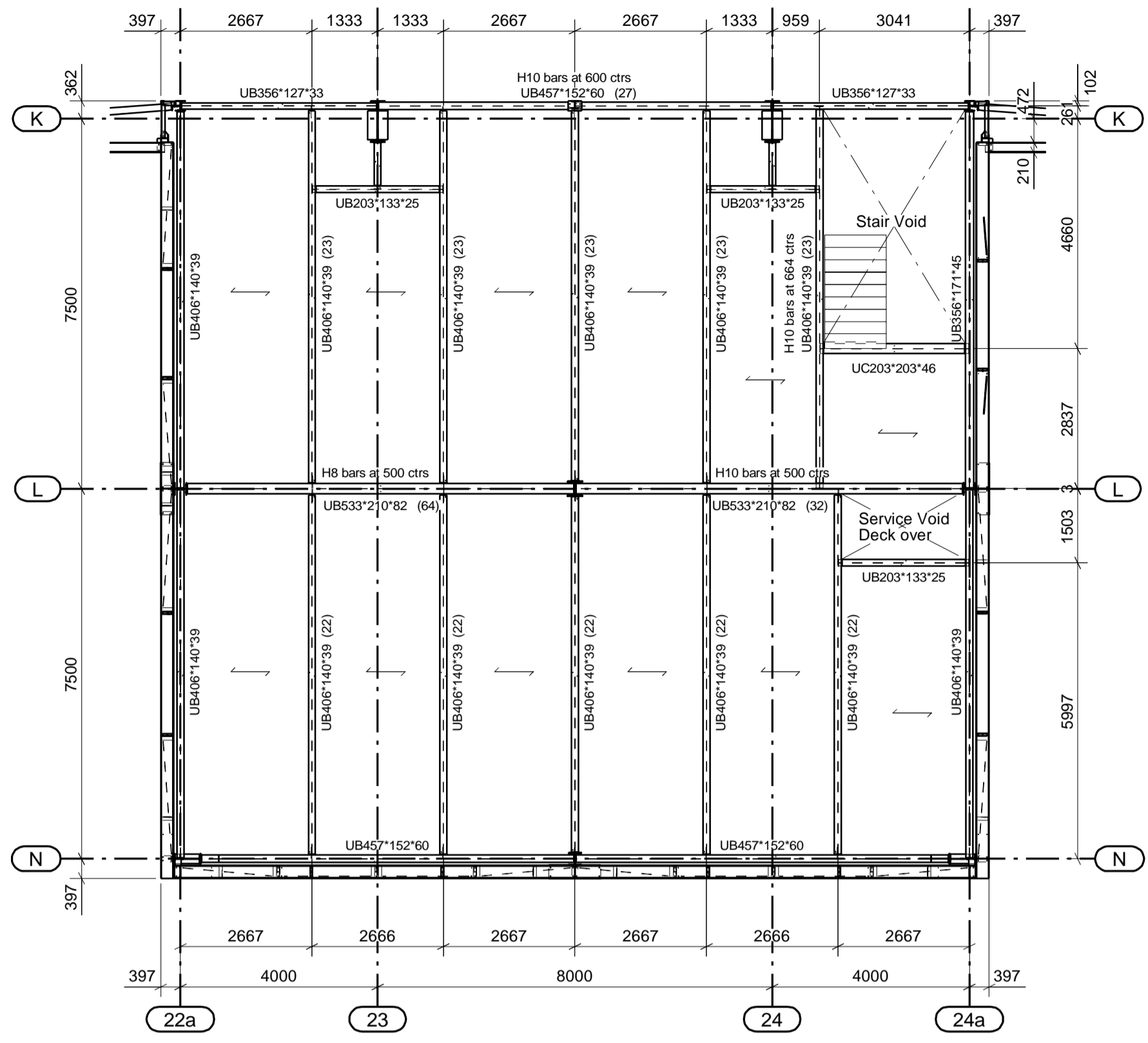
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 - It is the responsibility of all specialist trade contractors that depend upon the steel frame for the construction of their works, including checking dimensions and positions on site if necessary, to deal with any potential conflict of tolerances which may arise.

- Decking Notes**
- Metal decking to be TR600 9mm, Grade S350 UNO
 - Decking to be double-ridge span U.A.O.
 - Concrete grade to be C30/37, 150mm thick.
 - Shear studs are 19mm diameter in accordance with EN ISO 13186
 - Fire resistance period 60 minutes to suit project
 - Min mesh A383 cover 25mm from top of slab. Please note the use of flying ends may be required to achieve the minimum concrete cover.
 - Caution Engineering Limited (CEL) are responsible for the design of metal decking in temporary and permanent conditions. CEL will also advise the minimum concrete strength, depth and reinforcement required for our composite beam design and to achieve the minimum fire resistance period. CEL will also design the slab including reinforcement requirements under concentrated loads (where known), at openings and edge, and for anti-suck requirements. We will prepare all slab and reinforcement drawings and schedules. However, the responsibility for sitework and day joints are to be with others.
 - The supply, delivery and installation of sitework and casting of the slab is to be by others.
 - The design responsibility of the floor as a diaphragm is to be with CEL.
 - The design of the deck / steel frame does not include for food poisoning of concrete. Concrete is to be poured to a constant depth above beam top flanges to a tolerance of 0-10mm. We recommend that the slab is cast in accordance with the guideline set out in the S21 publication P300 Composite Slabs and beams using steel decking. Best practice for design and construction.
 - Depending on the quality of the slab pour we anticipate a flatness tolerance of SR3 in accordance with BS 8204. (Max 10mm gap below a 2m straight edge).
 - Number in brackets = min number of studs
 - Stud requirements on edge beams - See Drawing
 - No studs noted provide 1 stud in alternative troughs or 600mm centres.
 - Any slab overhanging past flange or support beam to be agreed with Caution Engineering design department.
 - Composite edge beams to have shear studs located no closer than 6d (d = stud diameter) from the free edge of the slab.

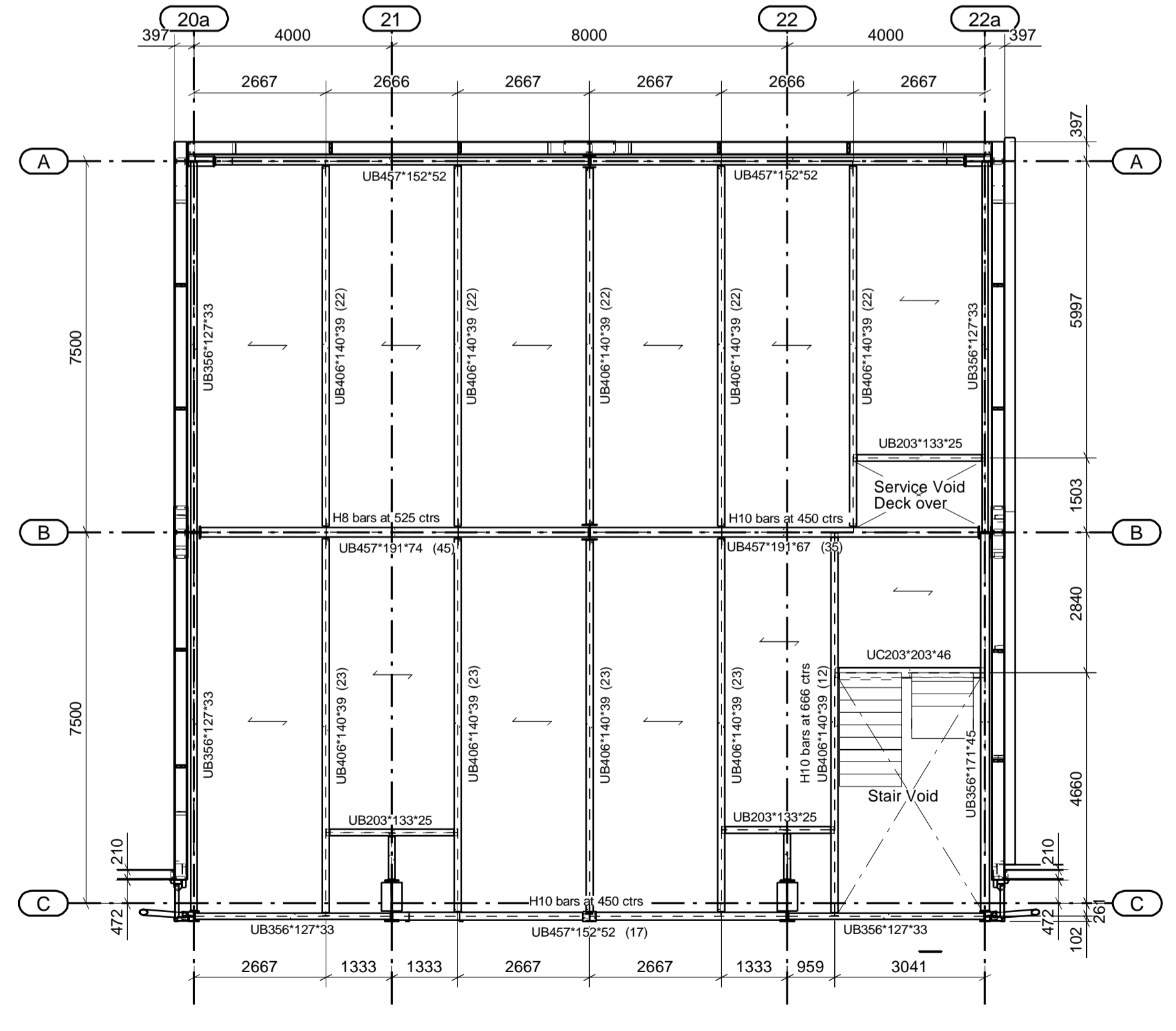


Dis 1 - Second Floor Plan
Top of Steelwork = 7.650m

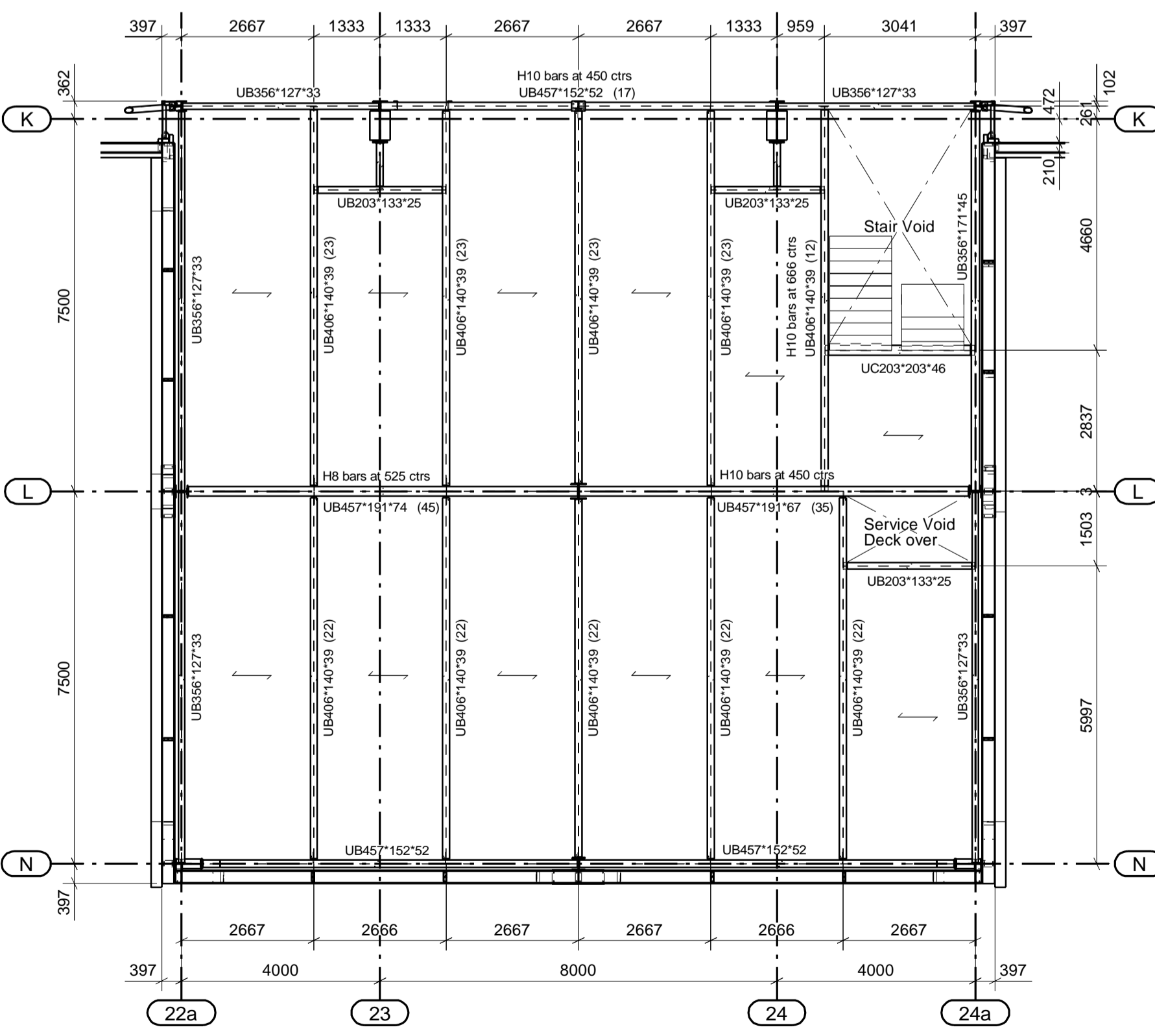


Dis 2 - Second Floor Plan
Top of Steelwork = 7.650m

← Denotes Decking Span



Dis 1 - First Floor Plan
Top of Steelwork = 3.650m



Dis 2 - First Floor Plan
Top of Steelwork = 3.650m

REV	DESCRIPTION	DATE
001	As built issue	11/03/2023
002	Beam reinforcement added	02/03/2023
003	Slab reinforcement added	02/03/2023
004	Door void added	02/03/2023
005	Provisional issue	02/03/2023
006	REVISION OF SCHEMATIC	REV DATE

STATUS : AS BUILT ISSUE



Client: Wincis Construction Ltd
Project: Plot 4000, Gateway 14
Location: Stowmarket, Suffolk
Drawing Title: Distribution Office Floor Plans

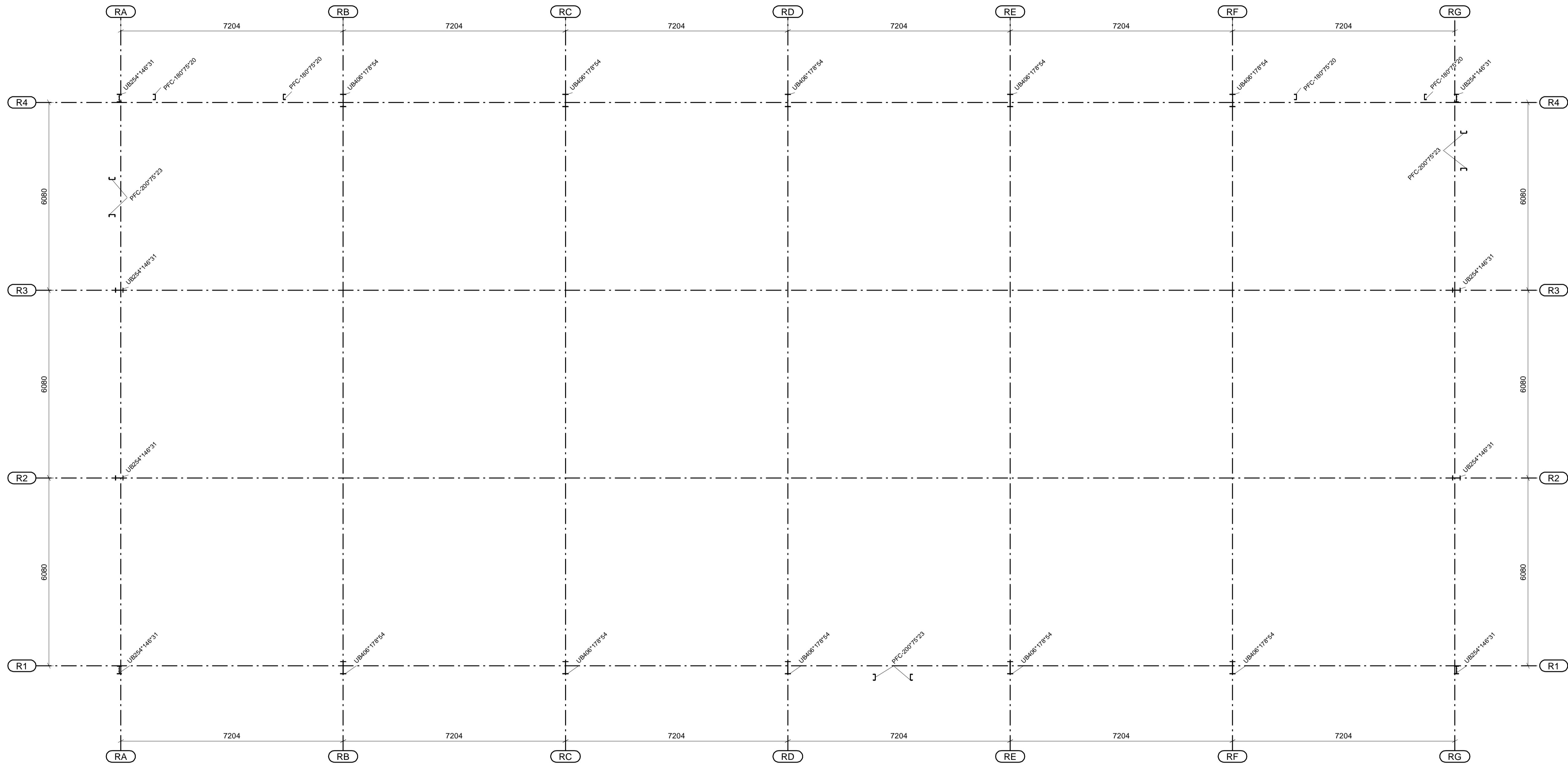
Scale	Proj. No.
1:100	22019
Drawn by: D. Butler	Project Type: Design & Build
Checked/Reviewed by:	Date Created: 30/01/2023
Revision:	Date Revised:
P22036-CEL-01-ZZ-DR-X-0010	B01

General Notes

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RRU Column Location Plan

REV	NO	DESCRIPTION	REV DATE
001	1	As-Built Issue	17/10/2023
002	2	Construction Issue	04/05/2023
003	3	Production Issue	28/02/2023

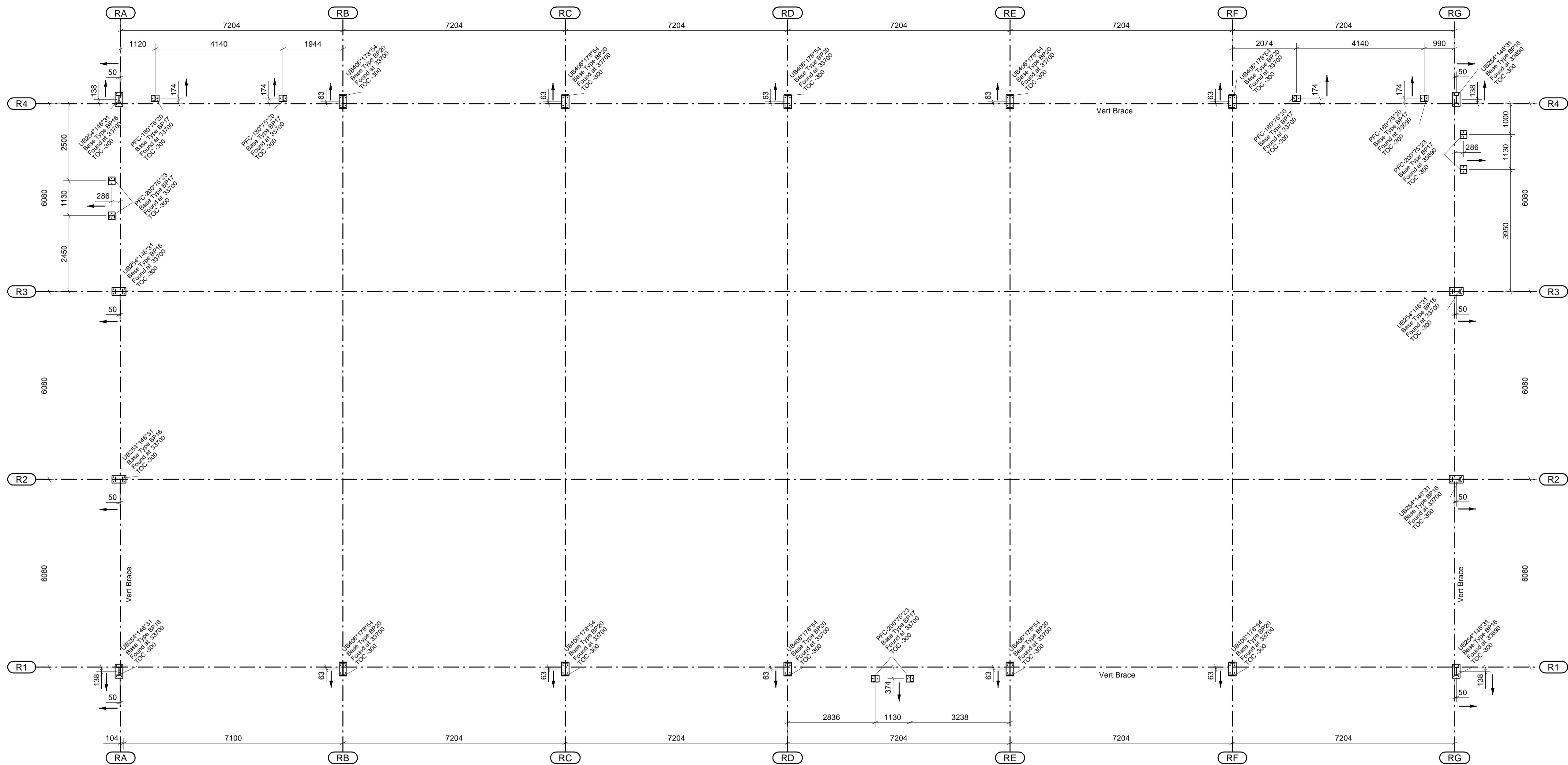
STATUS : AS BUILT ISSUE

caution
ENGINEERING

Caution Engineering Limited
Moorgate Industrial Park
117-119, Moorgate, Norwich, Norfolk, NR1 1JQ
www.caution.co.uk
Tech.Sales@caution.co.uk

Client: Winc Construction Ltd
Project: Plot 4000, Gateway 14
Location: Stowmarket, Suffolk
Drawing Title: Refuse & Recycle Building Column Location Plan

Scale: 1:75	ECN Job No: 22019
Drawn by: D Butler	Project Type: Design & Build
Design & Build	Date Created: 16/02/2023
Design & Build	Date Reviewed:
Project: P22036-CEL-RU-00-DR-X-0031	Revision: B01



RRU Foundation Plan



Foundation Level Key
 0.000m = 34.000m
 -0.300m = 33.700m
 -0.675m = 33.325m

IF IN DOUBT - ASK!

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 - The steel frame shown on this drawing will be erected in accordance with the tolerances specified in the current NISS (National Structural Steelwork Specification).
 - Any queries relating to information on this drawing are to be referred, in the first instance, to the Lead Designer.
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 - It should not be assumed the steel frame shown on this drawing has been coordinated with other specialist trade contractors regarding construction interfaces. Any queries should be raised with the Lead Designer.
 - It is the responsibility of all specialist trade contractors that depend upon the steel frame for support to ensure they understand the tolerances defined in the current NISS. Other specialist trade contractors must make provision in the design and construction of their works, including checking dimensions and positions on site if necessary, to deal with any potential conflict of tolerances which may arise.

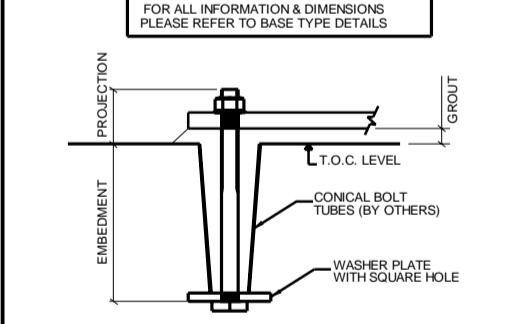
- Foundation Notes**
- Setting out and Tolerances**
- All grid lines and datum levels are to be established and maintained throughout the steel frame erection period by the Principal Contractor.
 - Only Caution Engineering drawings should be used to set out holding down bolts and washer plates.
 - The setting out tolerances for all holding down bolts and cast foundation levels is to be in accordance with Section 9.1 of the NISS.
 - If post drilled resin or mechanical anchors are shown on the drawings they are to be installed strictly in accordance with the manufacturers' instructions.

- Construction Sequence**
- All holding down bolts, resin/mechanical anchors and washer plates shown on Caution Engineering drawings are supplied and delivered to site by Caution Engineering.
 - If post drilled resin or mechanical anchors are shown on the drawings and are to be installed before steel erection starts they will be delivered to site with the holding down bolts.
 - Marking out and drilling of concrete for resin or mechanical anchors is to be by others.
 - Holding down bolts are strength grade 8.8.
 - Conical bolt tubes must be placed around each H.D. bolt to form a pocket that will allow full rotational movement of the bolt at the top of the pocket. These are not supplied by Caution Engineering.
 - All holding down bolts, washer flats and tubes should be placed in the required position before concrete is poured.
 - All threads to be thoroughly greased and protected before concrete is poured.
 - All foundations must have a smooth and level surface onto which steel packing plates can be placed when steel erection starts.
 - Every holding down bolt must be able to move in the pocket so they should be checked and if necessary shaken after concrete is poured and before it hardens.
 - Pockets must be kept clear of debris to ensure holding down bolts can move.
 - All timber templates used to cast the foundations are to be removed by the Principal Contractor or groundworks contractor prior to steel erection starting.
 - If polyethylene bolt tubes are used they must be removed by the Principal Contractor or groundworks contractor prior to steel erection starting.

- Damage to Holding Down Bolts**
- If any holding down bolt is damaged after installation the Principal Contractor must report the matter to Caution Engineering.
 - If a grade 8.8 holding down bolt is bent after installation no attempt should be made to straighten it as this may lead to the bolt fracturing.

- Grouting of Bases**
- The organisation responsible for designing foundations is also responsible for specifying the product to be used to grout the holding down bolts and underside of column bases.
 - After the structure has been lined, levelled & plumbed by Caution Engineering, to the tolerances stated in Section 9.6 of the NISS, it will be handed over to the Principal Contractor for final checking and grouting.
 - All columns must be grouted within 24 hours of being handed over. Caution Engineering is not responsible for grouting of columns.

- Design Responsibility**
- Caution are not responsible for the design of the foundation. We have designed the base plate and holding down bolts assuming adequate depth to accommodate the specified bolt embedment and also assume that edge distance does not dictate. The foundation designer is to confirm that the foundation can accommodate the loads, including the design of any additional reinforcement that may be required.



TYPICAL H.D. BOLT DETAIL

REV	DESCRIPTION	REV DATE
B01	As-Built Issue	17/10/2021
B01	Construction Issue	09/02/2022
P02	Foundation level aligned	19/03/2022
P01	Provisionary Issue	26/02/2021
REV MARK	REVISION DESCRIPTION	REV DATE

STATUS : AS BUILT ISSUE



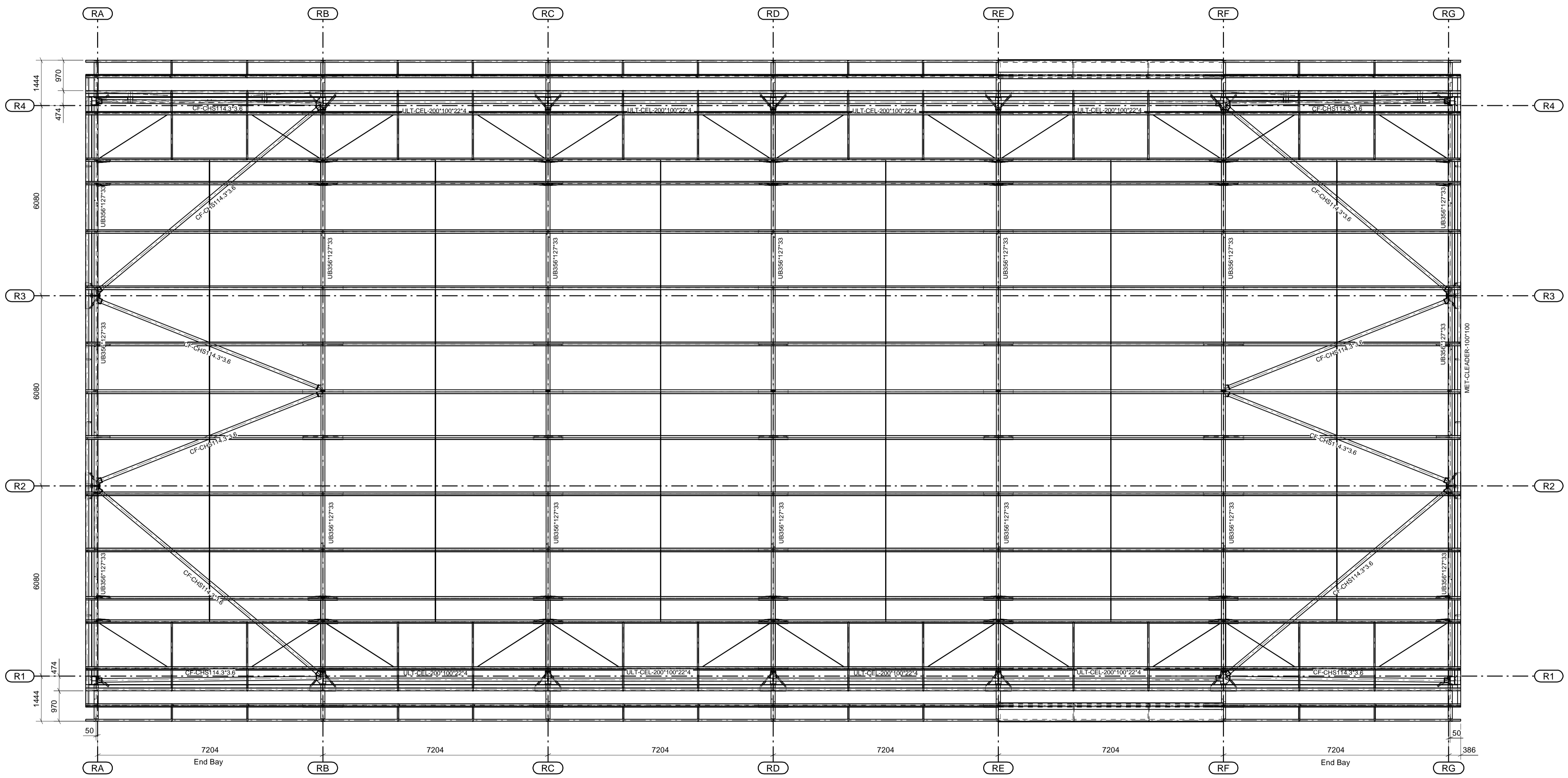
Caution Engineering Limited
 Moorgreen Industrial Park
 Moorgreen, Huddersfield, HD1 3QU
 TEL: 01773 231111 FAX: 01773 832020
 Email: sales@caution.co.uk

Client	Wimvic Construction Ltd
Project Name	Plot 4000, Gateway 14
Site Address	Stowmarket, Suffolk
Drawing Title	Refuse & Recycle Building Foundation Plan
Scale	1:75
Drawn By	D Butler
Checked By	D Butler
Design & Build	Design & Build
Date Created	16/02/2022
Date Revised	
Revision	B01

P22036-CEL-RU-FN-DR-X-0032

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RRU Roof Plan

PURLIN SPEC
 Metsec Heavy end bay system
 End Bay 232Z16
 Inner Bay 232Z15
 PT = Purlin tie
 DPB = Diagonal purlin brace
 EB = Eaves brace
 SRS = Side rail support
 AS = Apex Strut
 UPEB = Under purlin eaves brace
 Cleader angle 100x100x1.6 supplied by Caution fitted by others

REV	As-Built Issue	17/10/2023
001	Construction Issue	04/05/2023
002	Pre-Construction Issue	28/02/2023
003	Revision of Construction	REV DATE

STATUS : AS BUILT ISSUE

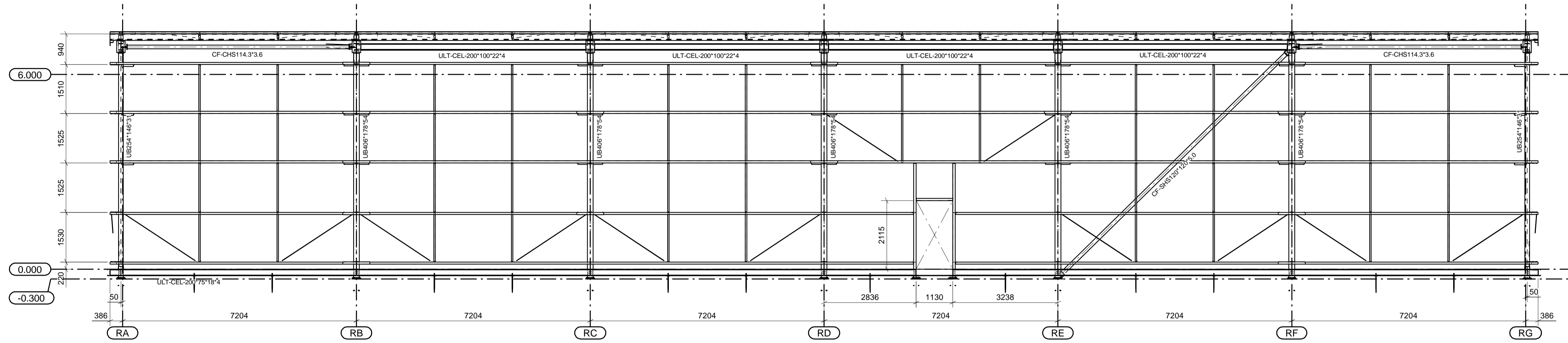
Caution Engineering Limited
 Moorgreen Industrial Park
 Moorgreen, Wymondham, Norfolk, UK
 TEL: 01753 831131 FAX: 01753 838820
 www.caution.co.uk
 Tech.Sales@caution.co.uk

Client: Wincis Construction Ltd
 Project: Plot 4000, Gateway 14
 Location: Stowmarket, Suffolk
 Drawing Title: Refuse & Recycle Building
 Roof Plan

Scale: 1:75	CDL Job No: 22019
Drawn by: D. Butler	Project Type: Design & Build
Designed/Reviewed by:	Date Created: 16.02.2023
Revision:	Date Reviewed:
P22036-CEL-RU-RF-DR-X-0033 B01	

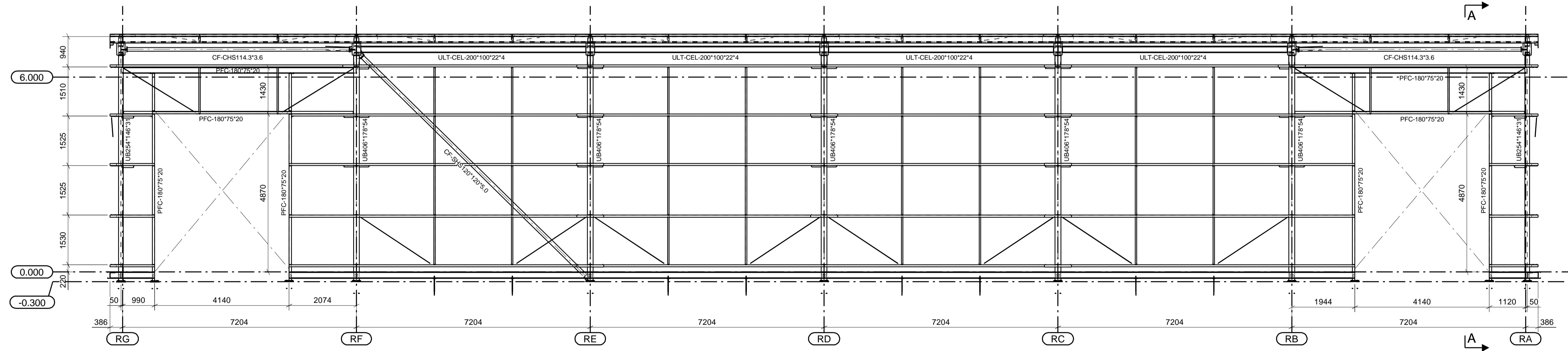
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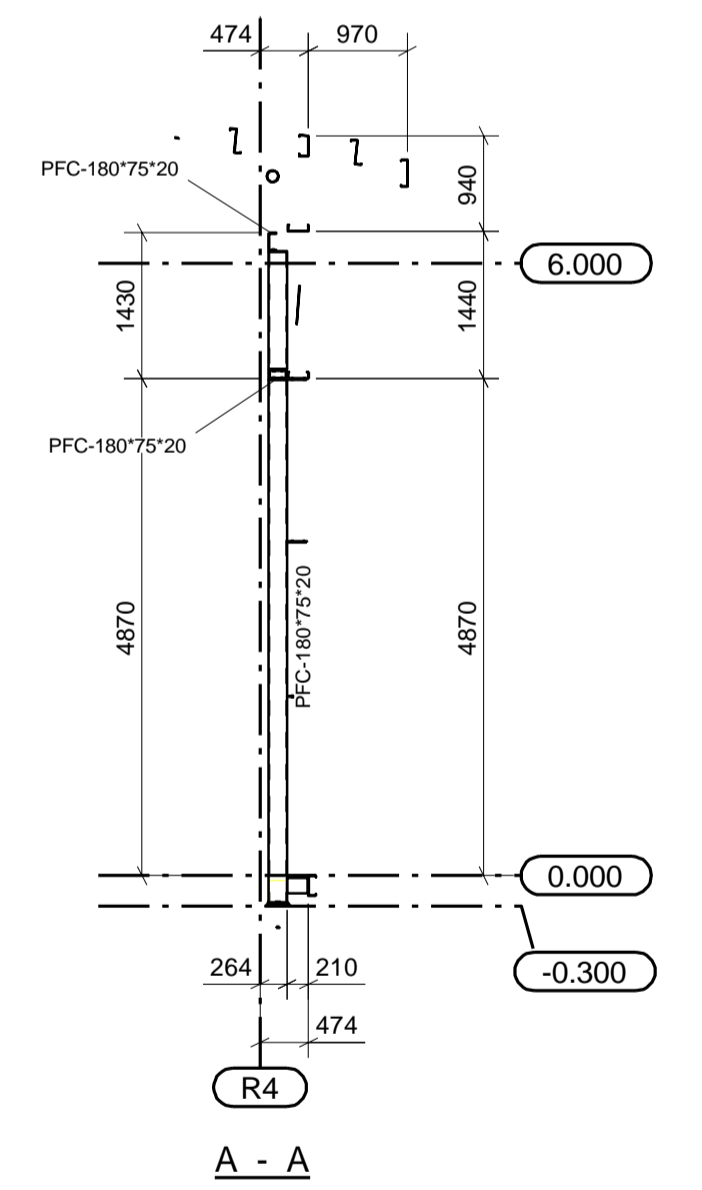


Elevation on Grid R1

Rail SPEC
 Metsec Sleeved system
 OUS Rails 202C15
 DTW = Diagonal tie wire
 SRS = Side rail support
 TS = Tubular Strut
 Cleader angle 100x100x1.6 supplied by Caution fitted by others



Elevation on Grid R4



A - A

REV	NO	DESCRIPTION	REV DATE
001	1	Issue for tender	17.10.2023
002	2	Construction issue	04.05.2024
003	3	Final issue	28.02.2025

STATUS : AS BUILT ISSUE

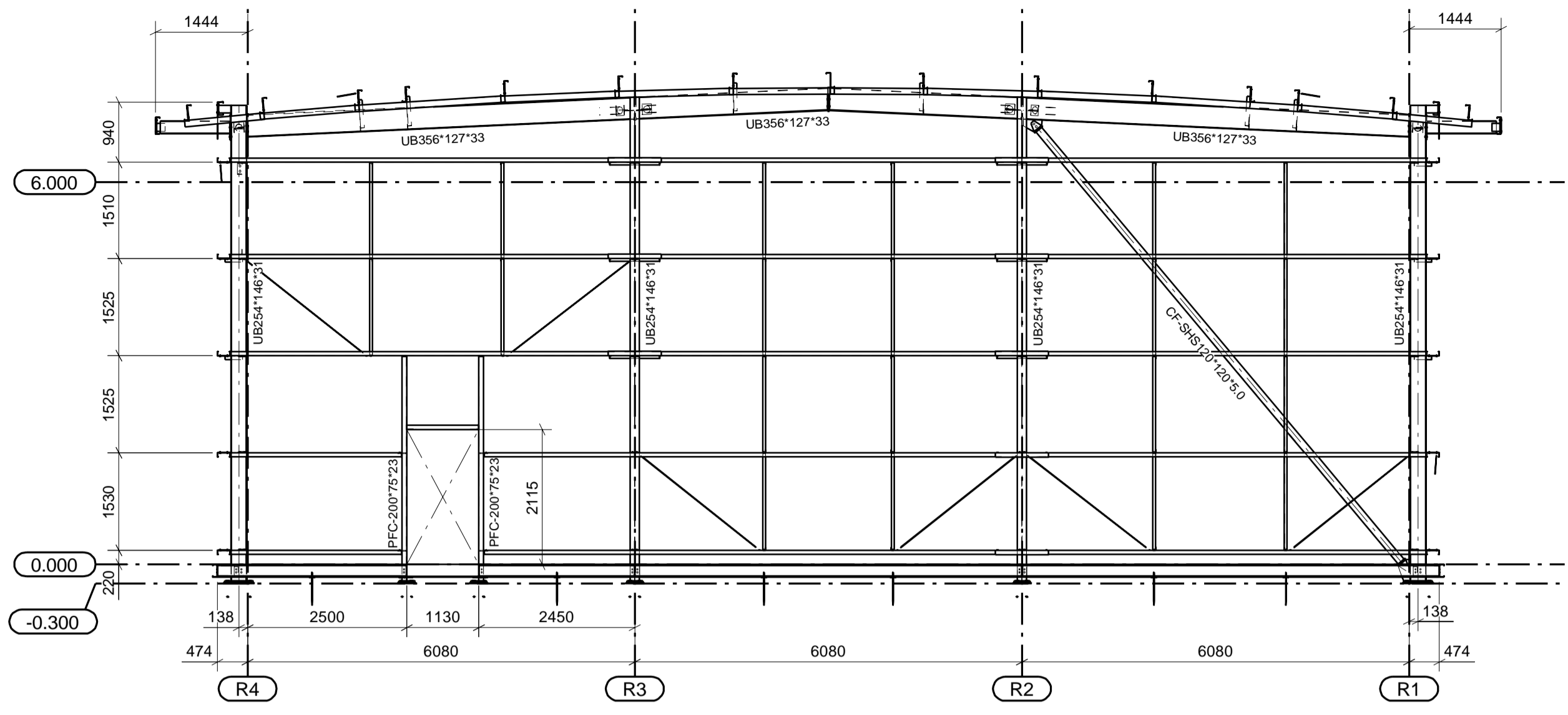


Client: Winc Construction Ltd
 Project: Plot 4000, Gateway 14
 Location: Stowmarket, Suffolk
 Drawing Title: Refuse & Recycle Building
 Elevation on Grids R1 and R4

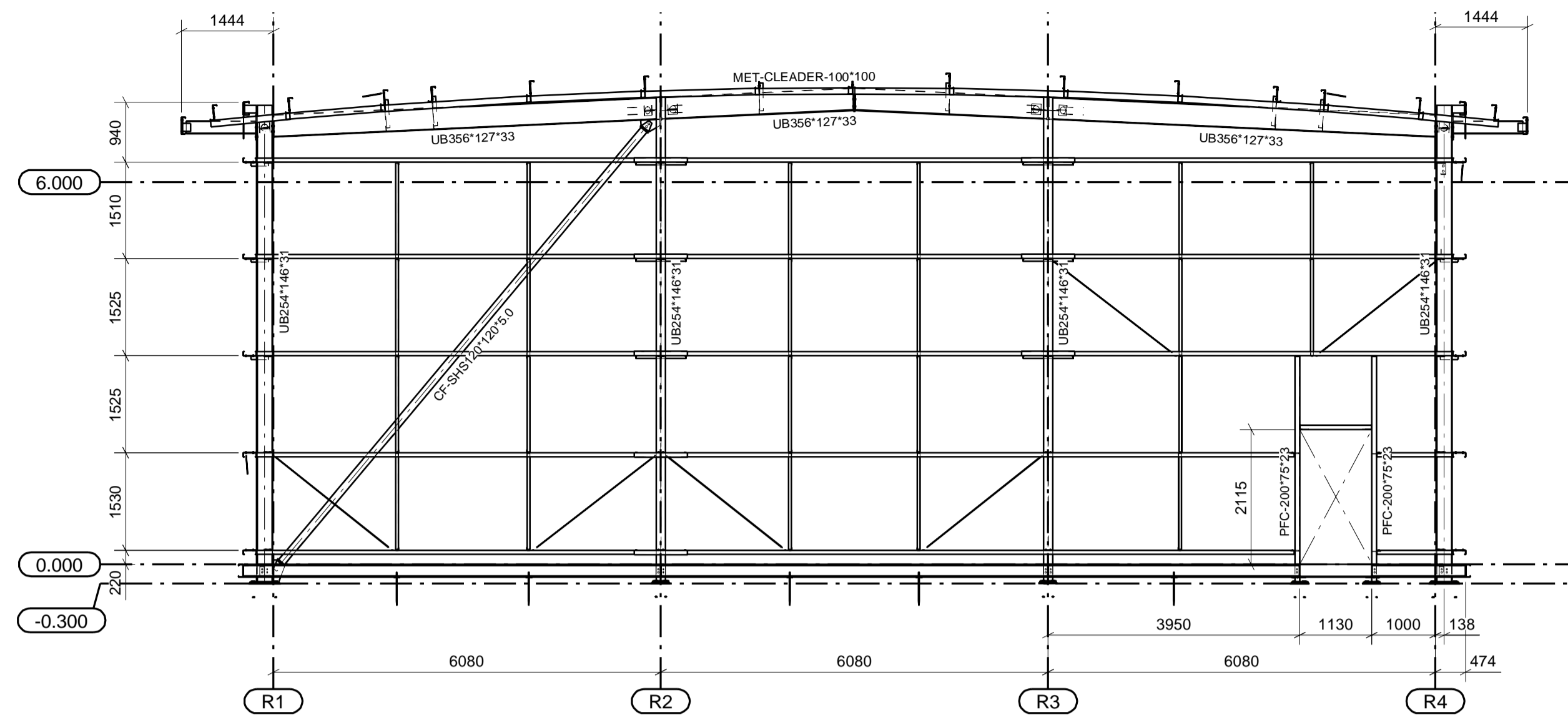
Scale: 1:75	CDL Job No: 22019
Drawn by: D. Butler	Project Type: Design & Build
Checked/Reviewed by:	Date Created: 16.02.2023
Revision:	Date Reviewed:
P22036-CEL-RU-ZZ-DR-X-0034	B01

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1. Do not scale from this drawing
 2. Dimensions are in millimetres unless noted otherwise.
 3. All levels are in metres unless noted otherwise
 4. Erection marks for orientation denoted
 5. Only PDF issues of this drawing are controlled
 6. All other formats of this drawing (e.g. DWG/AutoCad) are uncontrolled and are used at your own risk.

- Project Notes**
1. Caution Engineering is not the Principal or Lead Designer for this project.
 2. The Lead Designer for this project has responsibility for approving this drawing.
 3. The steel frame shown on this drawing has been designed to Eurocode 3.
 4. The steel frame shown on this drawing will be erected in accordance with the tolerances specified in the current NSSS (National Structural Steelwork Specification).
 5. Any queries relating to information on this drawing are to be referred, in the first instance to the Lead Designer.
 6. This drawing is to be read in conjunction with all information produced by the Lead Designer, Architect, Engineer and all other specialist trade contractors employed on this project.
 7. It should not be assumed the steel frame shown on this drawing has been coordinated with other specialist trade contractors regarding construction interfaces. Any queries should be raised with the Lead Designer.
 8. It is the responsibility of all specialist trade contractors that depend upon the steel frame for support to ensure they understand the tolerances defined in the current NSSS. Other specialist trade contractors must make provision in the design and construction of their works, including checking dimensions and positions on site if necessary, to deal with any potential conflict of tolerances which may arise.

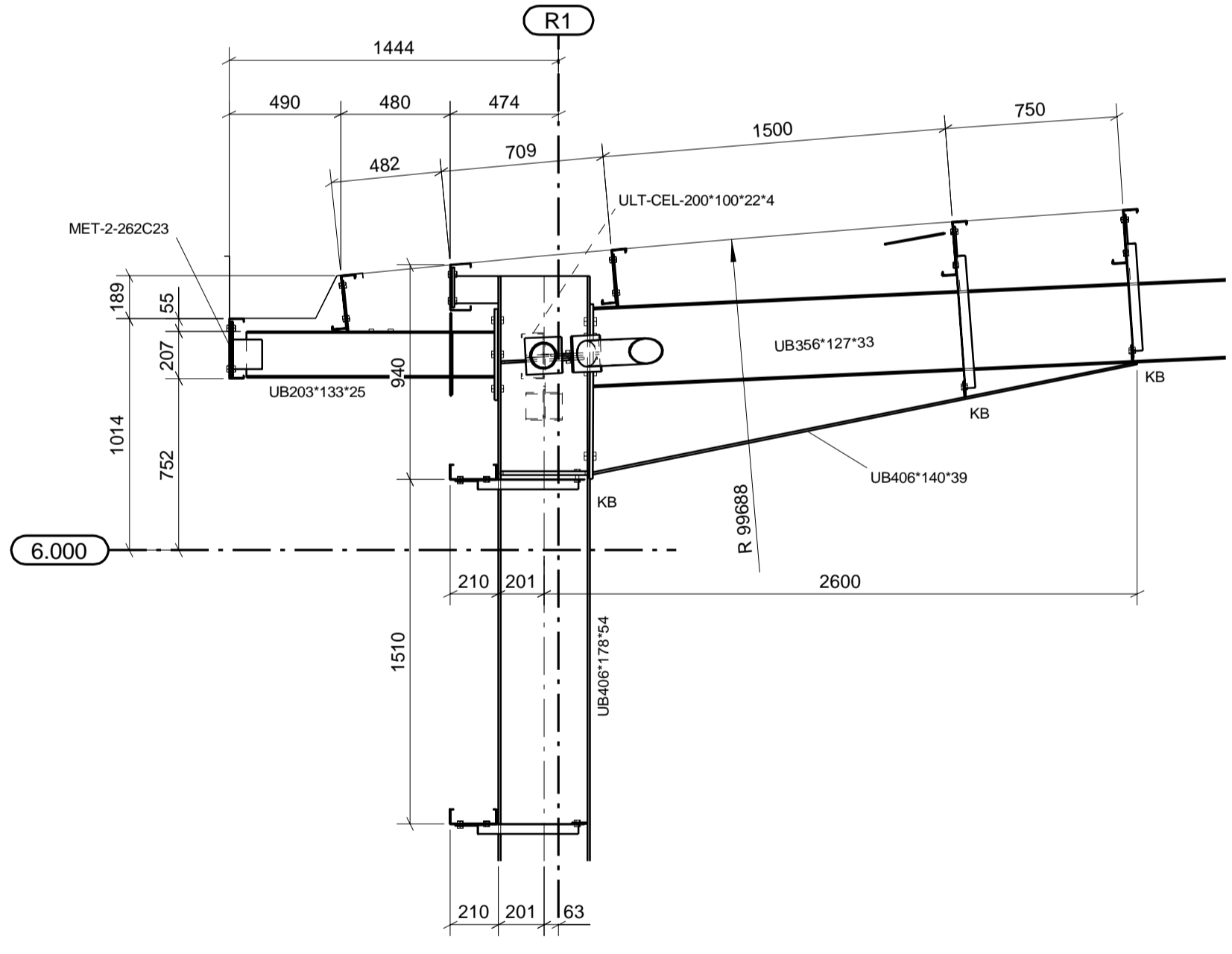


Elevation on Grid RA

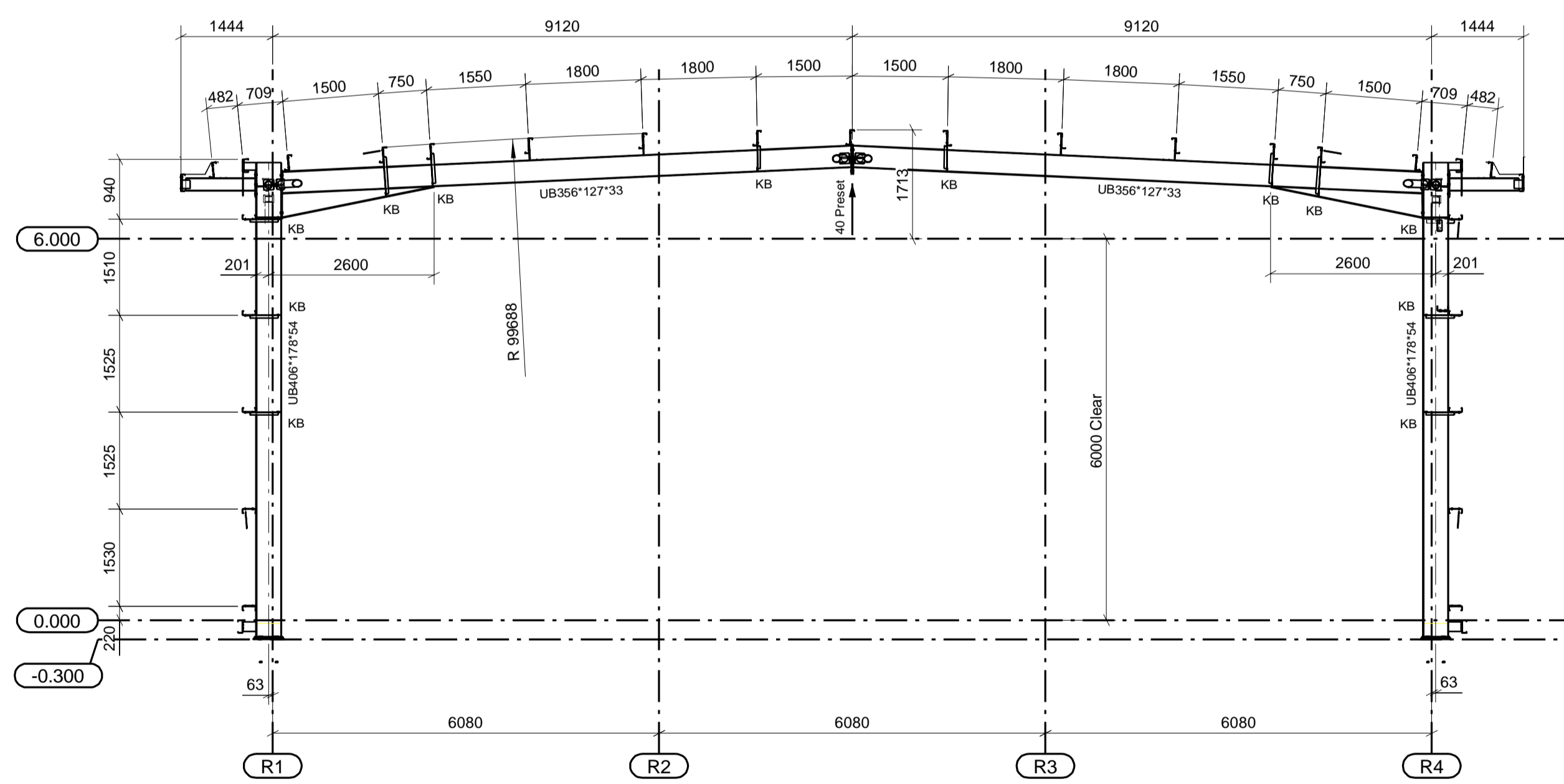


Elevation on Grid RG

Rail SPEC
 Metsec Sleeved system
 OUS Rails 202C15
 DTW = Diagonal tie wire
 SRS = Side rail support
 TS = Tubular Strut
 Cleader angle 100x100x1.6 supplied by Caution fitted by others



Eaves detail on Grid line R1



Section on Grid line RF

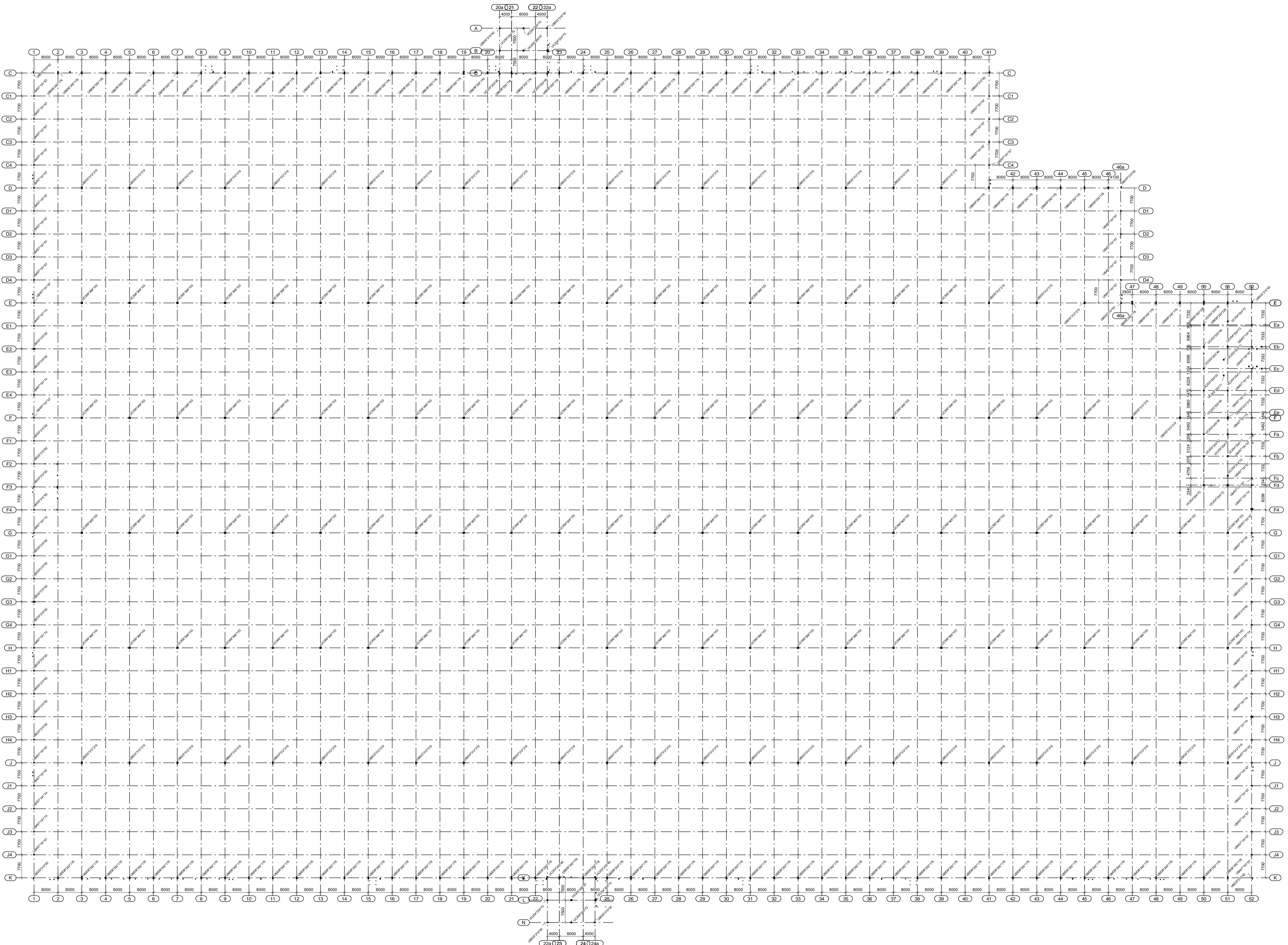
REV	DESCRIPTION	REV DATE
001	As-Built Issue	17/10/2023
002	Construction Issue	04/05/2023
003	Production Issue	28/02/2023
004	Revision of Description	REV DATE

STATUS : AS BUILT ISSUE



Client	Winnic Construction Ltd
Project Name	Plot 4000, Gateway 14
Site Name	Stowmarket, Suffolk
Project Title	Refuse & Recycle Building Elevations on Grid RA, RG and section RF

Scale	1:25 1:75	CDL Job No	22019
Drawn by	D. Butler	Project Type	Design & Build
Checked/Reviewed by		Date Created	16/02/2023
Project	P22036-CEL-RU-ZZ-DR-X-0035	Revision	B01



Column Location Plan

STATUS - AS BUILT ISSUE

caution
Construction Ltd
Unit 10, The Gateway, 14
The Gateway, Gableway 14
Barnstaple, Devon PL4 8JG, UK
Tel: 01323 831111 Fax: 01323 831112
www.caution.co.uk

Rev	As BUILT	18/03/2020
1	As BUILT	18/03/2020
2	As BUILT	18/03/2020
3	As BUILT	18/03/2020
4	As BUILT	18/03/2020
5	As BUILT	18/03/2020
6	As BUILT	18/03/2020
7	As BUILT	18/03/2020
8	As BUILT	18/03/2020
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50	As BUILT	18/03/2020
51	As BUILT	18/03/2020
52	As BUILT	18/03/2020

Project Name: Column Location Plan
Date: 18/03/2020
Drawn By: Design & Build
Checked By: Design & Build
P22036-CEL-W1-00-DR-X-0001 B01

- General Notes**
1. Do not scale from this drawing.
 2. Dimensions are in millimetres unless noted otherwise.
 3. All levels are in metres unless noted otherwise.
 4. Equipment used for construction shown on this drawing has been checked against the current NZS Structural Steelwork Specification.
 5. All other formats of this drawing (e.g. DWG/AutoCAD) are uncontrolled and are not to be used.

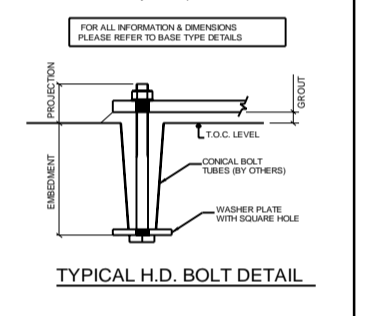
- Project Notes**
1. Caumont Engineering is not the Principal or Lead Designer for this project.
 2. The Lead Designer for this project has responsibility for approving this drawing.
 3. The steel frame shown on this drawing has been designed in accordance with the relevant provisions of the current NZS Structural Steelwork Specification.
 4. Any queries relating to information on this drawing are to be referred, in the first instance, to the Lead Designer.
 5. This drawing is to be used in conjunction with all other drawings of this project. It is the responsibility of the contractor to ensure that all connections and details shown on this drawing have been coordinated with other drawings and specifications for the project.
 6. The contractor is to ensure that the construction of their works, including checking dimensions and positions on site, is in accordance with Section 9 of the NZS.
 7. If any potential conflict or imbalance which may arise.

- Foundation Notes**
1. All grid lines and datum levels are to be established and confirmed through the steel frame erection period by the Principal Contractor.
 2. The setting out for all holding down bolts should be used to set out holding down bolts and weather plates. The setting out for all holding down bolts should be in accordance with Section 9 of the NZS.
 3. If any holding down bolts are shown on the drawings, they are to be installed strictly in accordance with the manufacturer's instructions.

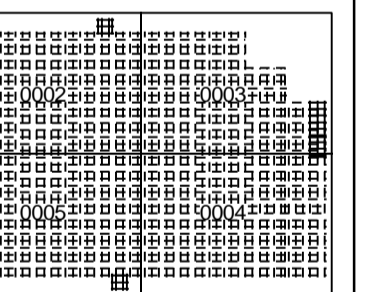
- Construction Sequence**
1. All holding down bolts, mechanical anchors and weather plates shown on Caumont Engineering drawings are to be installed before the steel frame is erected.
 2. Mechanical anchors and weather plates are shown on the drawings and are to be installed before steel erection starts. They will be delivered to site with the holding down bolts.
 3. Mechanical and drilling of concrete for resin or grout is to be done in the order shown.
 4. Holding down bolts are strength grade 8.8.
 5. Critical bolt holes must be pre-drilled to the correct diameter of the bolt at the top of the pocket.
 6. These are not to be drilled by Caumont Engineering.
 7. All holding down bolts, weather plates and bags should be thoroughly grouted and protected before concrete is poured.
 8. All pockets must have a smooth and level surface on which steel packing plates can be placed.
 9. Steel packing plates must be able to move in the pocket so they should be checked and if necessary cleaned after concrete is poured and before it hardens.
 10. Pockets must be kept clear of debris to ensure holding down bolts can move.
 11. All temperatures used to cast the foundations are to be approved by the Principal Contractor or groundworks contractor prior to steel erection starting.
 12. If polythene bag tubes are used they must be removed by the Principal Contractor or groundworks contractor prior to steel erection starting.
 13. If any holding down bolt is damaged after installation the Principal Contractor must report the matter to Caumont Engineering.
 14. If a grade 8 holding down bolt is bare after installation no attempt should be made to straighten it as this may lead to bolt failure.

- Covering of Bases**
1. The contractor responsible for designing foundations is also responsible for specifying the protection to be used to protect the holding down bolts and underside of column bases.
 2. After the structure has been fixed, welded & painted by Caumont Engineering, the underside of the column bases is to be protected with a minimum of 25mm of concrete. This concrete is to be checked and approved by the Principal Contractor for final checking and grouting.
 3. All columns must be grouted within 24 hours of being handed over. Caumont Engineering is not responsible for grouting of columns.

- Design Responsibility**
1. Caumont is not responsible for the design of the foundation. We have designed the base plate and holding down bolts ensuring adequate depth to also ensure that edge distance does not occur.
 2. The foundation designer is to ensure that the foundation can accommodate the loads, including the design of any additional reinforcement that may be required.



TYPICAL H.D. BOLT DETAIL



Drawing Key

Foundation Level Key

0.000m	=	34.950m
-0.300m	=	34.650m
-0.450m	=	34.500m
-0.675m	=	34.275m
-1.200m	=	33.750m
-1.650m	=	33.300m

Denotes direction and offset from Grid to centre line of Column

80	As Built	1/16/2019
70	As Built	1/16/2019
60	As Built	1/16/2019
50	As Built	1/16/2019
40	As Built	1/16/2019
30	As Built	1/16/2019
20	As Built	1/16/2019
10	As Built	1/16/2019
0	As Built	1/16/2019

STATUS : AS BUILT ISSUE

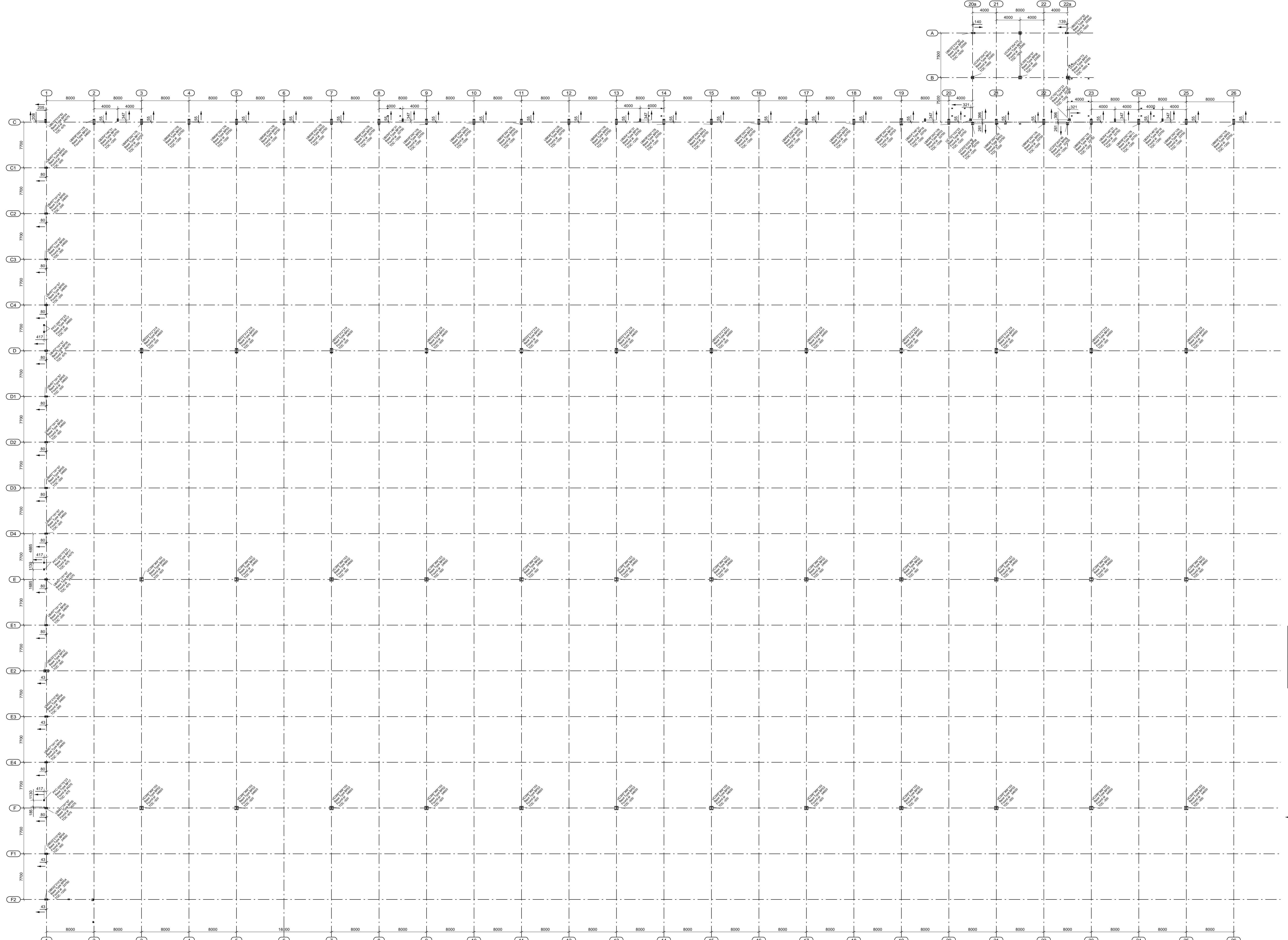
caumont
 Caumont Engineering Limited
 10/100, Galloway Road, Galloway, Auckland
 Tel: 09 274 1111 Fax: 09 274 1111
 www.caumont.co.nz

Waka Construction Ltd
 10/100, Galloway Road
 Auckland, New Zealand
 Tel: 09 274 1111 Fax: 09 274 1111
 www.waka.co.nz

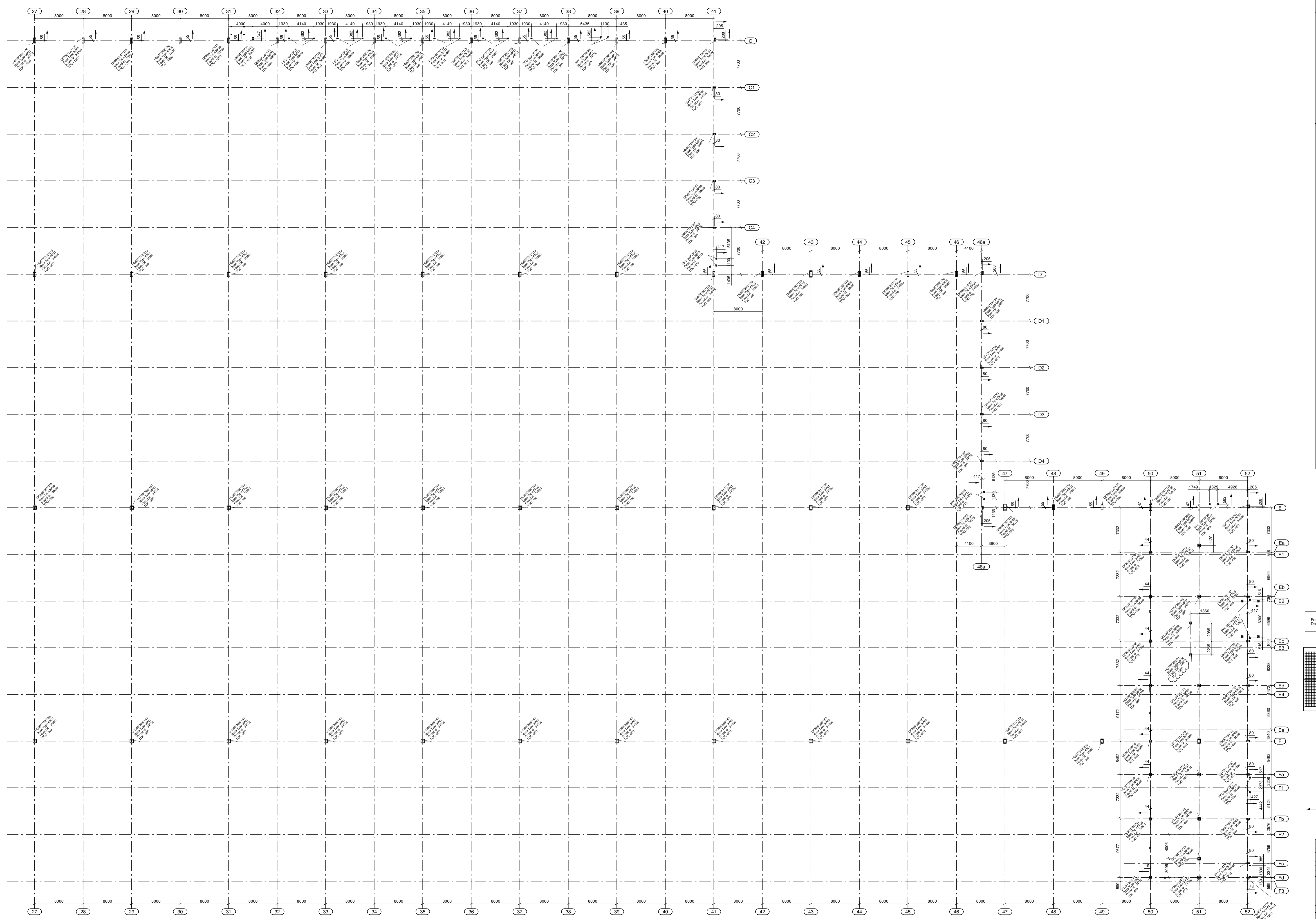
Foundation Plan sheet 1 of 4

Scale	1:200	1:8000
Date	27/01/2019	27/01/2019
Drawn by	Design & Build	Design & Build
Checked by		

P22036-CEL-W1-FN-DR-X-002 B01



Foundation Plan



General Notes

1. Do not scale from this drawing.
2. Dimensions are in millimetres unless noted otherwise.
3. All levels are in metres unless noted otherwise.
4. Equipment mark for construction shown.
5. The drawing is for construction purposes.
6. All other formats of this drawing (e.g. DWG/AutoCAD) are subject to the standard of your own risk.

Project Notes

1. Caution Engineering is not the Principal Lead Designer for this project.
2. The Lead Designer for this project has responsibility for approving this drawing.
3. The steel frame shown on this drawing has been designed in accordance with BS 5951.
4. The steel frame shown on this drawing will be erected in accordance with the tolerances specified in the current NZS Structural Steelwork Specification.
5. Any queries relating to information on this drawing are to be referred, in the first instance to the Lead Designer.
6. The drawing is to be read in conjunction with all information contained on the drawing, including any conditions of use, contracts or specifications.
7. It should not be assumed that the steel frame shown on this drawing has been coordinated with other specialist trade contractors (including construction Lead Designer).
8. The responsibility of all specialist trade contractors that depend upon the steel frame for support is to ensure that they are aware of the tolerances and construction of their works, including checking dimensions and positions on site if necessary, to avoid any potential conflict or imbalances which may arise.

Foundation Notes

Setting out and Tolerances

1. All grid lines and datum levels are to be established and confirmed prior to the commencement of excavation period by the Principal Contractor.
2. Once Caution Engineering drawings should be used for out of holding down bolts and water pipes. The setting out tolerances for all holding down bolts are to be in accordance with BS 5951:1.
3. If grid lines and datum levels are shown on the drawings, they are to be marked on site in accordance with the manufacturer's instructions.

Construction Sequence

1. All holding down bolts, mechanical anchors and water pipes shown on Caution Engineering drawings are to be installed before the commencement of concrete pouring.
2. If poor related rebar or mechanical anchors are shown on the drawings and are to be installed before steel erection starts, they will be delivered to site with the holding down bolts.
3. Mechanical and drilling of concrete for resin or grout is to be completed before steel erection starts.
4. Holding down bolts are strength grade 8.8.
5. Chemical grout must be placed around each H.D. bolt to form a pocket that will allow full rotational movement of the bolt at the top of the pocket. There are no special requirements for the grout. These are not specified by Caution Engineering.
6. All holding down bolts, water pipes and anchors shall be protected from damage prior to concrete pouring.
7. All threads to be thoroughly grouted and protected before concrete is poured.
8. All foundations must have a smooth and level surface onto which steel packing plates can be placed.
9. Clean steel surfaces shall be used to ensure the pocket to this should be checked and if necessary cleaned after concrete is poured and before it hardens.
10. Packings must be kept clear of debris to ensure holding down bolts can move.
11. All formwork used to cast the foundations are to be removed by the Principal Contractor or groundworks contractor prior to steel erection starting.
12. If polyethylene bolt tubes are used they must be removed by the Principal Contractor or groundworks contractor prior to steel erection starting.
13. If any holding down bolt is damaged after installation the Principal Contractor must report the matter to Caution Engineering.
14. If a grade 8.8 holding down bolt is bare after installation no attempt should be made to straighten it as this may lead to bolt failure.

Coupling of Bolts

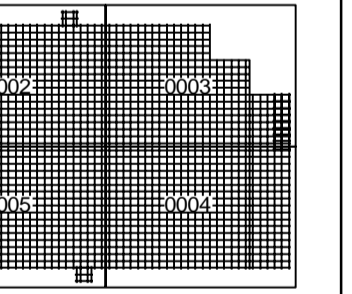
15. The responsibility for specifying the design of the foundations is also responsible for specifying the product to be used to grade the holding down bolts and underside of column bases.
16. After the anchors have been fixed, welded & planted by the Contractor, they are to be inspected by the Principal Contractor for their checking and grouting.
17. All anchors must be grouted within 24 hours of being handed over. Caution Engineering is not responsible for grouting of anchors.

Design Responsibility

18. Caution Engineering is not responsible for the design of the foundations. We have designed the base plate and holding down bolt according to the manufacturer's instructions. We assume the designer will ensure that the foundation design is suitable for the foundation can accommodate the loads, including the design of any additional reinforcement that may be required.

Foundation Plan

For Entrance Foundations see Drawing 0019



Foundation Level Key

- 0.000m = 34.950m
- 0.300m = 34.650m
- 0.650m = 34.300m
- 0.875m = 34.075m
- 1.200m = 33.750m
- 1.650m = 33.300m

Denotes direction and offset from Grid to centre line of Column

Grid	Offset	Distance
01	to Station	10.000
02	to Station	10.000
03	to Station	10.000
04	to Station	10.000
05	to Station	10.000
06	to Station	10.000
07	to Station	10.000
08	to Station	10.000
09	to Station	10.000
10	to Station	10.000

STATUS : AS BUILT ISSUE

Caution Engineering Limited
 Unit 10/11, 12/13, 14/15, 16/17, 18/19, 20/21, 22/23, 24/25, 26/27, 28/29, 30/31, 32/33, 34/35, 36/37, 38/39, 40/41, 42/43, 44/45, 46/47, 48/49, 50/51, 52/53, 54/55, 56/57, 58/59, 60/61, 62/63, 64/65, 66/67, 68/69, 70/71, 72/73, 74/75, 76/77, 78/79, 80/81, 82/83, 84/85, 86/87, 88/89, 90/91, 92/93, 94/95, 96/97, 98/99, 100/101
 PO Box 4000, Gateway 14, Auckland, New Zealand
 Tel: 09 251 9111 Fax: 09 251 9110
 Email: info@caution.co.nz
 www.caution.co.nz

Project: P22036-CEL-W1-FN-DR-X-003
 Title: Foundation Plan sheet 2 of 4
 Scale: 1:200 1:800
 Date: 27.07.2020
 Design & Build

General Notes
1. Do not scale from this drawing.
2. Dimensions are in millimetres unless noted otherwise.
3. All levels are in metres unless noted otherwise.
4. Equipment mark for construction shown.
5. The drawing is for information only.
6. All other formats of this drawing (e.g. DWG/AutoCAD) are uncontrolled and the user is responsible for any updates.

Project Notes
1. Caumont Engineering is not the Principal of Lead Designer for this project.
2. The Lead Designer for this project has responsibility for approving this drawing.
3. The steel frame shown on this drawing has been designed in accordance with the relevant specifications in the current NZS National Structural Steel Specification.
4. The queries relating to information on this drawing are to be referred to the first instance to the Lead Designer.
5. This drawing is the result of an iterative design process controlled by the Lead Designer. All dimensions shown on this drawing are the final dimensions of the steel frame shown on this drawing. It should not be assumed that the steel frame shown on this drawing has been coordinated with other specialist trade contractors. Any specialist trade contractor queries should be issued with the Lead Designer.
6. Contractors that depend upon the steel frame for support to ensure they are able to erect the balance of their works, including checking dimensions and positions, are to ensure, to avoid any potential conflict or imbalances which may arise.

Foundation Notes
1. All grid lines and datum levels are to be established on site through the overhead erection period by the Principal Contractor.
2. Once Caumont Engineering drawings should be used to set out holding down bolts and water pipes. The setting out tolerances for all holding down bolts and water pipes are to be in accordance with Section 5 of the NZS.
3. If grid lines or mechanical anchors are shown on the drawings, they are to be installed strictly in accordance with the manufacturer's instructions.
4. All foundations must be thoroughly grouted and protected before concrete is poured.
5. All foundations must have a smooth and level surface on which steel packing plates can be placed.
6. All foundations must be checked and if necessary cleared after concrete is poured and before it hardens.
7. Packings must be kept clear of debris to ensure holding down bolts can move.
8. All formwork must be used to cast the foundations and be removed by the Principal Contractor or groundworks contractor prior to steel erection starting.
9. If polythene bolt tubes are used they must be removed by the Principal Contractor or groundworks contractor prior to steel erection starting.

Construction Sequence
1. Holdings down bolts, mechanical anchors and water pipes shown on Caumont Engineering drawings are to be installed before steel erection starts.
2. If poor ground conditions or mechanical anchors are shown on the drawings and are to be installed before steel erection starts, they will be delivered to site with the holding down bolts.
3. Mechanical and drilling of concrete for resin or grout should be completed before steel erection starts.
4. Holding down bolts are strength grade 8.8.
5. Critical bolt tubes must be grouted in place.
6. H.D. bolt to form a pocket that will allow full rotational movement of the steel at the base of the column.
7. All holding down bolts, water pipes and anchors must be installed in the concrete before concrete is poured.
8. All threads to be thoroughly grouted and protected before concrete is poured.
9. All foundations must have a smooth and level surface on which steel packing plates can be placed.
10. All foundations must be checked and if necessary cleared after concrete is poured and before it hardens.
11. Packings must be kept clear of debris to ensure holding down bolts can move.
12. All formwork must be used to cast the foundations and be removed by the Principal Contractor or groundworks contractor prior to steel erection starting.
13. If polythene bolt tubes are used they must be removed by the Principal Contractor or groundworks contractor prior to steel erection starting.

Damage to Holding Down Bolts
17. If any holding down bolt is damaged after installation the Principal Contractor must report the matter to Caumont Engineering.
18. If a grade 8 holding down bolt is bare after installation no attempt should be made to straighten it as this may lead to the bolt fracturing.

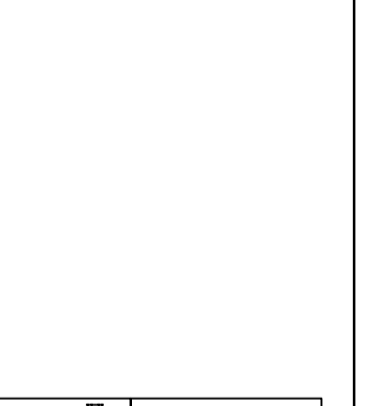
Covering of Bases
19. The expression responsible for designing foundations is also responsible for specifying the product to be used to grade the holding down bolts and underside of column bases.
20. After the anchors have been laid, welded & planted by Caumont Engineering, the area between them in Section 5 of the NZS, is to be handed over to the Principal Contractor for final checking and grouting.
21. All anchors must be grouted within 24 hours of being handed over. Caumont Engineering is not responsible for grouting of columns.

Design Responsibility
22. Caumont is not responsible for the design of the foundations. We have designed the base plate and holding down bolts ensuring they comply with the relevant specifications. We have also ensured that the foundations are designed to accommodate the loads. The foundation designer is responsible for ensuring the foundation can accommodate the loads, including the design of any additional reinforcement that may be required.

TYPICAL H.D. BOLT DETAIL



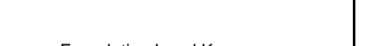
Drawing Key



Foundation Level Key

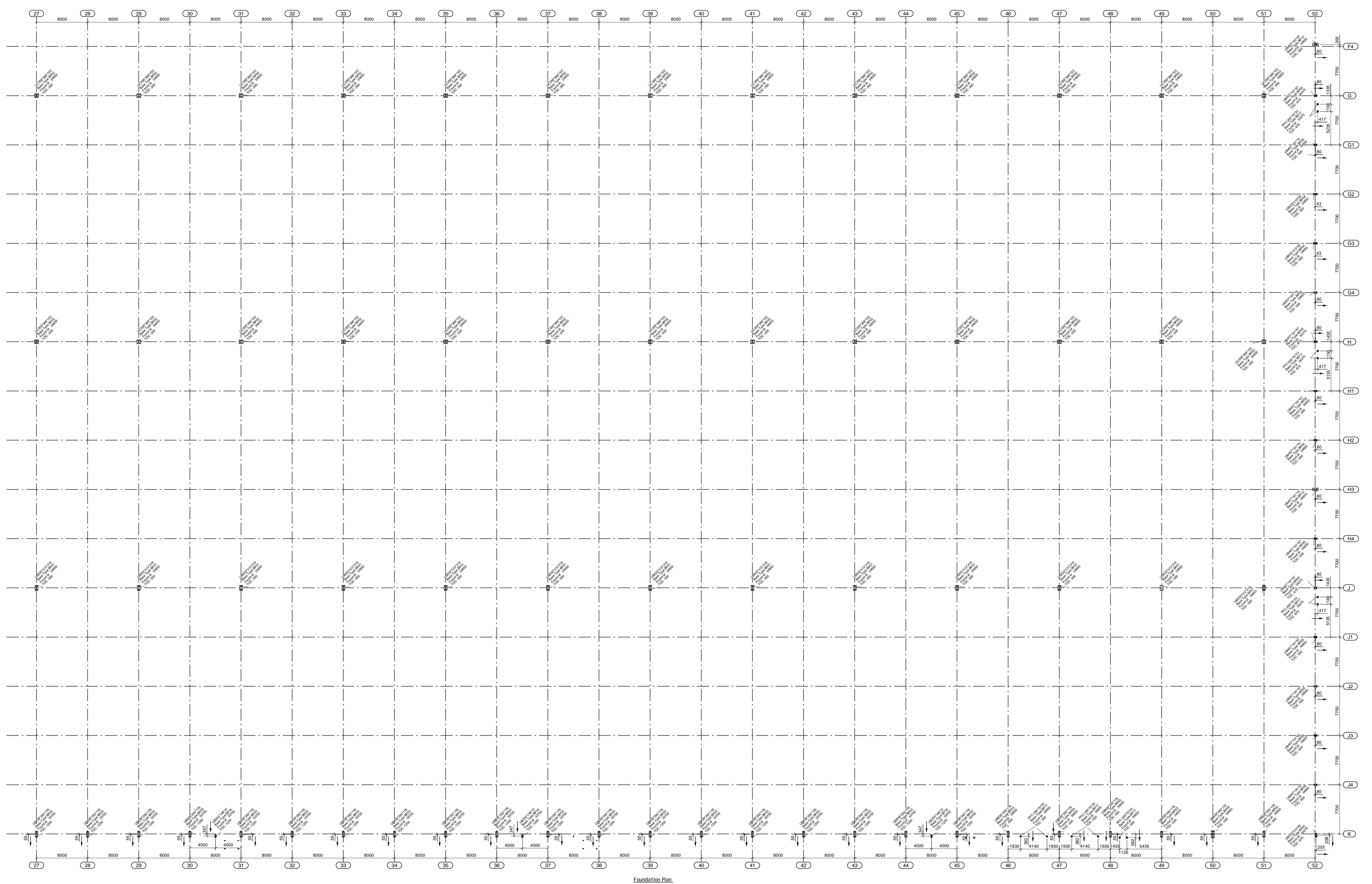
0.000m	=	34.950m
-0.300m	=	34.650m
-0.450m	=	34.500m
-0.675m	=	34.275m
-1.200m	=	33.750m
-1.650m	=	33.300m

Densets direction and offset from Grid to centre line of Column



STATUS - AS BUILT ISSUE

NO	AS BUILT	DATE
01	Issue for construction	2019
02	Issue for construction	2019
03	Issue for construction	2019
04	Issue for construction	2019
05	Issue for construction	2019
06	Issue for construction	2019
07	Issue for construction	2019
08	Issue for construction	2019
09	Issue for construction	2019
10	Issue for construction	2019
11	Issue for construction	2019
12	Issue for construction	2019
13	Issue for construction	2019
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15	Issue for construction	2019
16	Issue for construction	2019
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43	Issue for construction	2019
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46	Issue for construction	2019
47	Issue for construction	2019
48	Issue for construction	2019
49	Issue for construction	2019
50	Issue for construction	2019
51	Issue for construction	2019
52	Issue for construction	2019



Foundation Plan

General Notes
1. Do not scale from this drawing
2. All levels are in metres unless noted otherwise
3. Foundation levels are in metres unless noted otherwise
4. All other levels of this drawing (e.g. DWG/AN/CAD) are in millimetres unless noted otherwise

Project Notes
1. Caution Engineering is not the Principal or Lead Designer for this project
2. The Lead Designer for this project has been designated as Caution Engineering
3. The steel frame shown on this drawing has been designed in accordance with the current NSEB, National Structural Steel Specification
4. Any queries relating to information on this drawing are to be referred, in the first instance to the Lead Designer
5. This drawing is to be read in conjunction with all drawings of the project
6. The steel frame shown on this drawing has been designed in accordance with the current NSEB, National Structural Steel Specification
7. The steel frame shown on this drawing has been designed in accordance with the current NSEB, National Structural Steel Specification
8. The steel frame shown on this drawing has been designed in accordance with the current NSEB, National Structural Steel Specification
9. The steel frame shown on this drawing has been designed in accordance with the current NSEB, National Structural Steel Specification
10. The steel frame shown on this drawing has been designed in accordance with the current NSEB, National Structural Steel Specification
11. The steel frame shown on this drawing has been designed in accordance with the current NSEB, National Structural Steel Specification
12. The steel frame shown on this drawing has been designed in accordance with the current NSEB, National Structural Steel Specification
13. The steel frame shown on this drawing has been designed in accordance with the current NSEB, National Structural Steel Specification
14. The steel frame shown on this drawing has been designed in accordance with the current NSEB, National Structural Steel Specification
15. The steel frame shown on this drawing has been designed in accordance with the current NSEB, National Structural Steel Specification
16. The steel frame shown on this drawing has been designed in accordance with the current NSEB, National Structural Steel Specification
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18. The steel frame shown on this drawing has been designed in accordance with the current NSEB, National Structural Steel Specification
19. The steel frame shown on this drawing has been designed in accordance with the current NSEB, National Structural Steel Specification
20. The steel frame shown on this drawing has been designed in accordance with the current NSEB, National Structural Steel Specification
21. The steel frame shown on this drawing has been designed in accordance with the current NSEB, National Structural Steel Specification
22. The steel frame shown on this drawing has been designed in accordance with the current NSEB, National Structural Steel Specification
23. The steel frame shown on this drawing has been designed in accordance with the current NSEB, National Structural Steel Specification
24. The steel frame shown on this drawing has been designed in accordance with the current NSEB, National Structural Steel Specification
25. The steel frame shown on this drawing has been designed in accordance with the current NSEB, National Structural Steel Specification
26. The steel frame shown on this drawing has been designed in accordance with the current NSEB, National Structural Steel Specification

Foundation Notes
1. All grid lines and datum levels are to be established and maintained throughout the steel erection period by the Principal Contractor
2. Once Caution Engineering drawings should be used to set out holding down bolts and water stops. The setting out tolerances for all holding down bolts shall be in accordance with Section 9.1 of the NSEB
3. If grid lines or datum levels are shown on the drawings, they are to be installed strictly in accordance with the instructions

Construction Sequence
1. All holding down bolts, mechanical anchors and water stops shown on Caution Engineering drawings are to be installed before steel erection starts. They will be delivered to site with the holding down bolts.
2. Mechanical and drilling of concrete for resin or epoxy should be completed before steel erection starts.
3. Holding down bolts are strength grade 8.8.
4. Control bolt holes must be drilled to the full depth of the hole at the top of the pocket.
5. All holding down bolts, water stops and seals shall be installed in the concrete before concrete is poured.
6. All threads to be thoroughly greased and protected before concrete is poured.
7. Steel packing pieces shall be used to ensure the holding down bolts are in the correct position and level surface.
8. All temporary bracing used to cast the foundations are to be removed by the Principal Contractor or groundworks contractor prior to steel erection starting.
9. If polythene bolt tubes are used they must be removed by the Principal Contractor or groundworks contractor prior to steel erection starting.

Damage to Holding Down Bolts
17. If any holding down bolt is damaged after installation the Principal Contractor must report the matter to Caution Engineering.
18. If a grade 8.8 holding down bolt is bare after installation no attempt should be made to straighten it as this may lead to bolt failure.

Grouting of Bases
19. The responsibility for grouting of foundations is also responsible for specifying the grout to be used to grout the holding down bolts and undersides of column bases.
20. After the grout has been laid, levelled & placed by the Caution Engineering, the steel structure shall be installed in Section 9.1 of the NSEB, it will be handed over to the Principal Contractor for final checking and grouting.
21. All columns must be grouted within 24 hours of being handed over. Caution Engineering is not responsible for grouting of columns.

Design Responsibility
22. Caution Engineering is not responsible for the design of the foundations. We have designed the base plate and holding down bolts according to the design of the foundations. The Principal Contractor must ensure that the foundations are designed to accommodate the loads and moments from the steel structure. The design of the foundations must be checked and approved by the Principal Contractor for final checking and grouting.

TYPICAL H.D. BOLT DETAIL



Drawing Key



Foundation Level Key

Table with 2 columns: Foundation Level, Elevation. Values include 0.000m = 34.950m, -0.300m = 34.650m, -0.450m = 34.500m, -0.675m = 34.275m, -1.200m = 33.750m, -1.650m = 33.300m.

Densets direction and offset from Grid to centre line of Column



STATUS : AS BUILT ISSUE

caution logo and company information including address: 4000 Gateway 14, Gosport, Hampshire, UK.

Foundation Plan sheet 4 of 4

Scale: 1:200

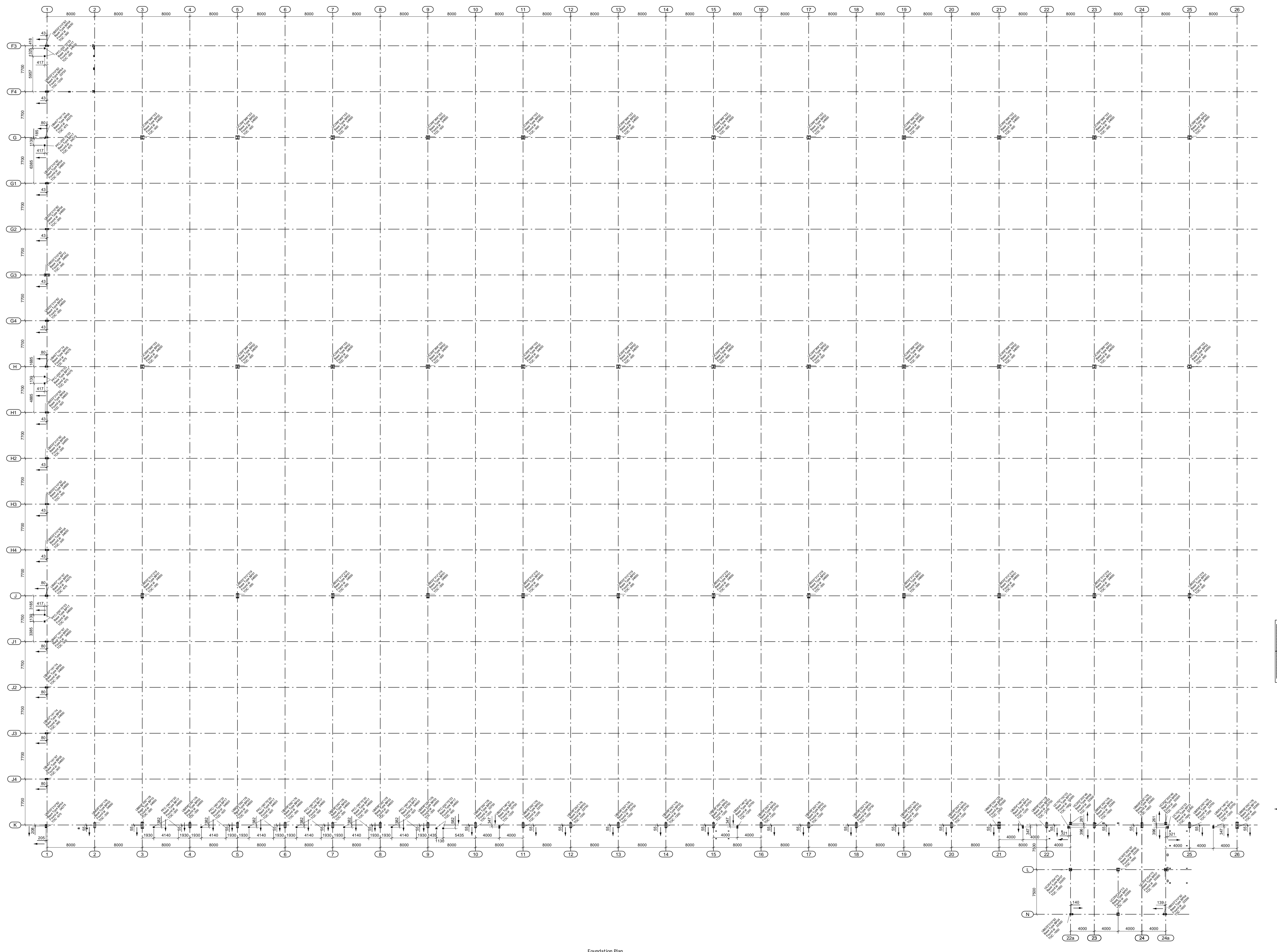
Date: 2019

Author: Design & Build

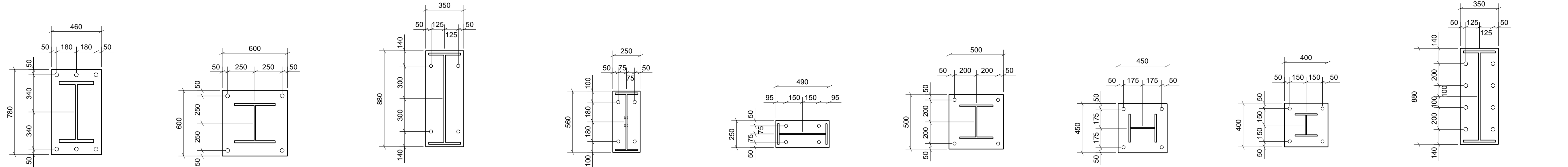
Date: 20.07.2020

Project: P22036-CEL-W1-FN-DR-X-005

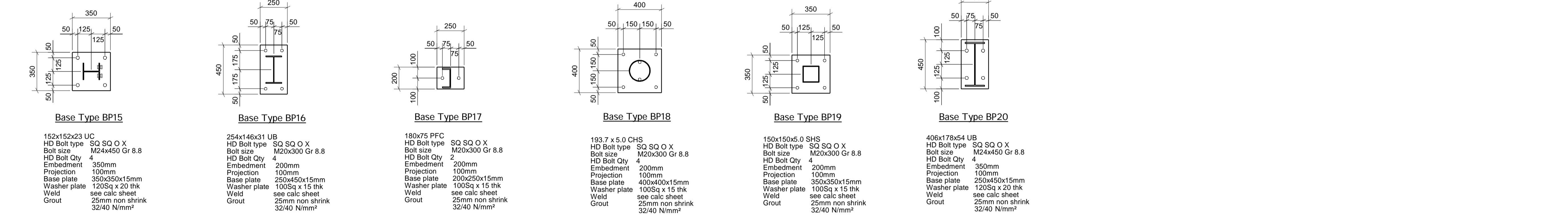
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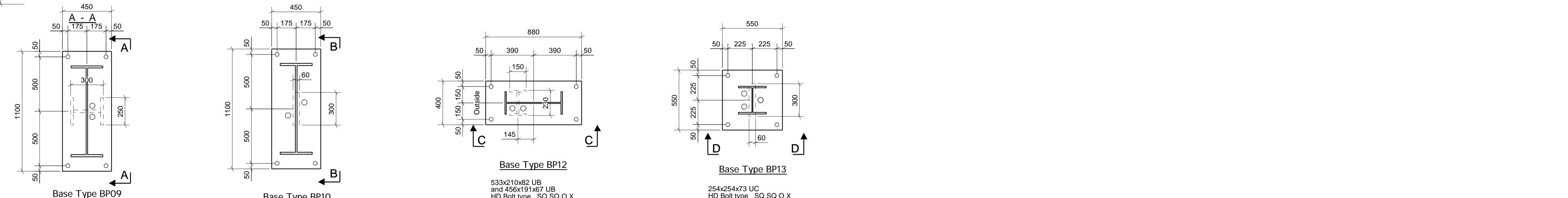
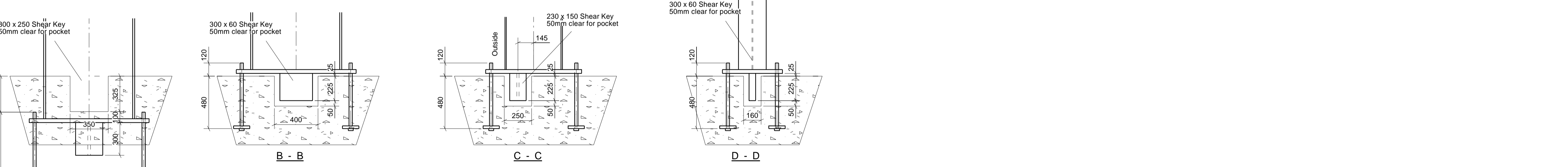
Foundation Plan



Base Type	UC	HD Bolt type	Bolt size	HD Bolt Qty	Embedment	Projection	Base plate	Washer plate	Weld	Grout
BP01	533x312x219 UB	SQ SQ O X	M30x600 Gr 8.8	4	480mm	120mm	460x780x35mm	150Sq x 25 thk	see calc sheet	25mm non shrink 32/40 N/mm ²
BP02	356x368x153 UC	SQ SQ O X	M30x600 Gr 8.8	4	480mm	120mm	600x600x30mm	150Sq x 25 thk	see calc sheet	25mm non shrink 32/40 N/mm ²
BP03	838x292x176 UB	SQ SQ O X	M24x450 Gr 8.8	4	350mm	100mm	350x890x20mm	120Sq x 20 thk	see calc sheet	25mm non shrink 32/40 N/mm ²
BP04	533x210x82 UB	SQ SQ O X	M24x450 Gr 8.8	4	350mm	100mm	250x80x15mm	120Sq x 20 thk	see calc sheet	25mm non shrink 32/40 N/mm ²
BP05	456x191x67 UB	SQ SQ O X	M24x450 Gr 8.8	4	350mm	100mm	250x490x15mm	120Sq x 20 thk	see calc sheet	25mm non shrink 32/40 N/mm ²
BP06	305x305x97 UC	SQ SQ O X	M24x450 Gr 8.8	4	350mm	100mm	500x500x20mm	120Sq x 20 thk	see calc sheet	25mm non shrink 32/40 N/mm ²
BP07	254x254x73 UC	SQ SQ O X	M24x450 Gr 8.8	4	350mm	100mm	450x450x20mm	120Sq x 20 thk	see calc sheet	25mm non shrink 32/40 N/mm ²
BP08	203x203x46.52, 60 UC	SQ SQ O X	M24x450 Gr 8.8	4	350mm	100mm	400x400x20mm	120Sq x 20 thk	see calc sheet	25mm non shrink 32/40 N/mm ²
BP11	838x292x176 UB	SQ SQ O X	M30x600 Gr 8.8	8	480mm	120mm	350x890x30mm	150Sq x 25 thk	see calc sheet	25mm non shrink 32/40 N/mm ²



Base Type	UC	HD Bolt type	Bolt size	HD Bolt Qty	Embedment	Projection	Base plate	Washer plate	Weld	Grout
BP15	152x152x23 UC	SQ SQ O X	M24x300 Gr 8.8	4	350mm	100mm	350x350x15mm	120Sq x 20 thk	see calc sheet	25mm non shrink 32/40 N/mm ²
BP16	254x146x31 UB	SQ SQ O X	M20x300 Gr 8.8	4	200mm	100mm	200x250x15mm	100Sq x 15 thk	see calc sheet	25mm non shrink 32/40 N/mm ²
BP17	180x75 PFC	SQ SQ O X	M20x300 Gr 8.8	2	200mm	100mm	200x250x15mm	100Sq x 15 thk	see calc sheet	25mm non shrink 32/40 N/mm ²
BP18	193.7 x 5.0 CHS	SQ SQ O X	M20x300 Gr 8.8	4	200mm	100mm	400x400x15mm	100Sq x 15 thk	see calc sheet	25mm non shrink 32/40 N/mm ²
BP19	150x150x5.0 SHS	SQ SQ O X	M20x300 Gr 8.8	4	200mm	100mm	350x350x15mm	100Sq x 15 thk	see calc sheet	25mm non shrink 32/40 N/mm ²
BP20	406x178x54 UB	SQ SQ O X	M24x450 Gr 8.8	4	350mm	100mm	250x450x15mm	120Sq x 20 thk	see calc sheet	25mm non shrink 32/40 N/mm ²



Base Type	UC	HD Bolt type	Bolt size	HD Bolt Qty	Embedment	Projection	Base plate	Washer plate	Weld	Grout
BP09	838x292x176 UB	SQ SQ O X	M30x600 Gr 8.8	4	480mm	120mm	450x1100x35mm	150Sq x 25 thk	see calc sheet	25mm non shrink 32/40 N/mm ²
BP10	838x292x176 UB and 456x191x67 UB	SQ SQ O X	M30x600 Gr 8.8	4	480mm	120mm	450x1100x35mm	150Sq x 25 thk	see calc sheet	25mm non shrink 32/40 N/mm ²
BP12	533x210x82 UB	SQ SQ O X	M30x600 Gr 8.8	4	480mm	120mm	400x800x35mm	150Sq x 25 thk	see calc sheet	25mm non shrink 32/40 N/mm ²
BP13	254x254x73 UC	SQ SQ O X	M30x600 Gr 8.8	4	480mm	120mm	550x550x35mm	150Sq x 25 thk	see calc sheet	25mm non shrink 32/40 N/mm ²

General Notes

- Do not scale from this drawing.
- Dimensions are in millimetres unless noted otherwise.
- All levels are in metres unless noted otherwise.
- Erection marks for erection denoted by **W**.
- Only PDF issues of this drawing are controlled.
- All other formats of this drawing (e.g. DWG/AutoCad) are uncontrolled and are user at your own risk.

Project Notes

- Caution Engineering is not the Principal or Lead Designer for this project.
- The Lead Designer for this project has responsibility for approving this drawing.
- The steel frame shown on this drawing has been designed to Eurocode 3.
- The steel frame shown on this drawing will be erected in accordance with the tolerances specified in the current NISS (National Structural Steelwork Specification).
- Any queries relating to information on this drawing are to be referred, in the first instance to the Lead Designer.
- This drawing is to be read in conjunction with all information produced by the Lead Designer, Architect, Engineer and all other specialist trade contractors employed on this project.
- It should not be assumed the steel frame shown on this drawing has been coordinated with other specialist trade contractors regarding construction interfaces. Any queries should be raised with the Lead Designer.
- It is the responsibility of all specialist trade contractors that they take the steel frame for support to ensure they understand the tolerances defined in the current NISS. Other specialist trade contractors must make provision in the design and construction of their works, including checking dimensions and positions on site if necessary, to deal with any potential conflict of tolerances which may arise.

Foundation Notes

Setting out and Tolerances

- All grid lines and datum levels are to be established and maintained throughout the steel frame erection period by the Principal Contractor.
- Only Caution Engineering drawings should be used to set out holding down bolts and washer plates.
- The setting out tolerances for all holding down bolts and cast foundation levels is to be in accordance with Section 9.1 of the NISS.
- If post drilled resin or mechanical anchors are shown on the drawings they are to be installed strictly in accordance with the manufacturers' instructions.

Construction Sequence

- All holding down bolts, resin/mechanical anchors and washer plates shown on Caution Engineering drawings are supplied and delivered to site by Caution Engineering.
- If post drilled resin or mechanical anchors are shown on the drawings and are to be installed before steel erection starts they will be delivered to site with the holding down bolts.
- Marking out and drilling of concrete for resin or mechanical anchors is to be by others.
- Holding down bolts are strength grade 8.8. These are not supplied by Caution Engineering.
- Conical bolt tubes must be placed around each H.D. bolt to form a pocket that will allow full rotational movement of the bolt at the top of the pocket.
- All holding down bolts, washer flats and tubes should be placed in the required position before concrete is poured.
- All threads to be thoroughly greased and protected before concrete is poured.
- All foundations must have a smooth and level surface onto which steel packing plates can be placed when steel erection starts.
- Every holding down bolt must be able to move in the pocket so they should be checked and if necessary shaven after concrete is poured and before it hardens.
- Pockets must be kept clear of debris to ensure holding down bolts can move.
- All timber templates used to cast the foundations are to be removed by the Principal Contractor or groundworks contractor prior to steel erection starting.
- If polystyrene tube are used they must be removed by the Principal Contractor or groundworks contractor prior to steel erection starting.

Damage to Holding Down Bolts

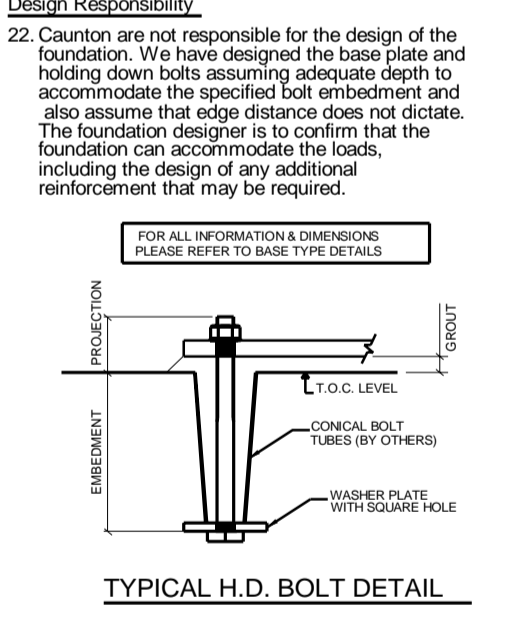
- If any holding down bolt is damaged after installation the Principal Contractor must report the matter to Caution Engineering.
- If a grade 8.8 holding down bolt is bent after installation no attempt should be made to straighten it as this may lead to the bolt fracturing.

Grouting of Bases

- The organisation responsible for designing foundations is also responsible for specifying the product to be used to grout the holding down bolts and underside of column bases.
- After the structure has been lined, levelled & plumbed by Caution Engineering, to the tolerances stated in Section 9.8 of the NISS, it will be handed over to the Principal Contractor for final checking and grouting.
- All columns must be grouted within 24 hours of being handed over. Caution Engineering is not responsible for grouting of columns.

Design Responsibility

- Caution are not responsible for the design of the foundation. We have designed the base plate and holding down bolts assuming adequate depth to accommodate the specified bolt embedment and also assume that edge distance does not dictate. The foundation designer is to confirm that the foundation can accommodate the loads, including the design of any additional reinforcement that may be required.



REV	DESCRIPTION	DATE
001	Issue for Bidding	17/10/2023
002	Base type BP20 added	20/10/2023
003	Prebid issue	10/10/2023
004	Revision of drawings	REV DATE

STATUS : AS BUILT ISSUE

caution ENGINEERING

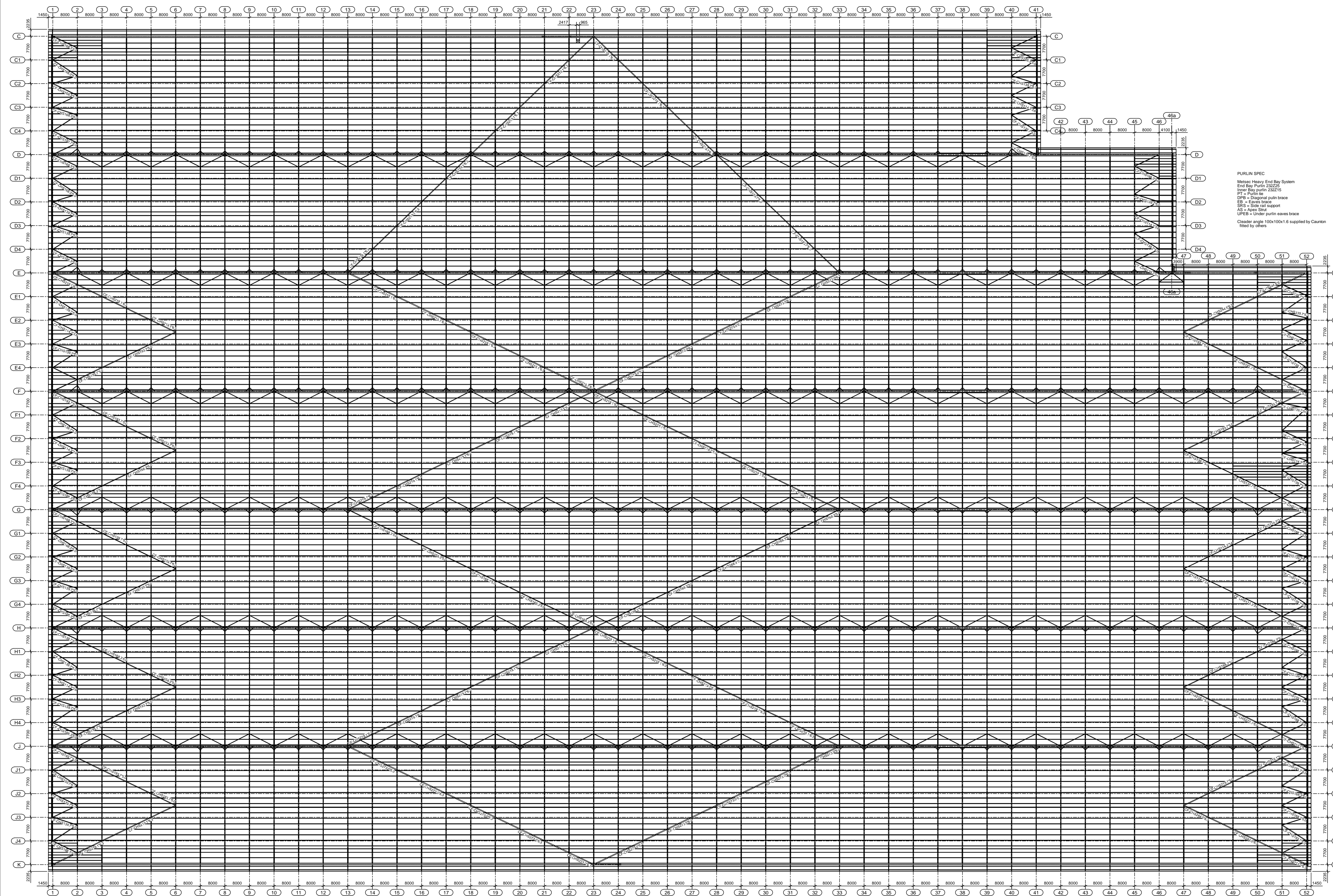
Caution Engineering Limited
 Moorgreen Industrial Park
 Moorgreen, Wetherby, Wetherby, LS23 7SQ
 TEL: 01937 541111 FAX: 01937 543200
 www.caution.co.uk
 Tech: 01937 543200

Client: Wincob Construction Ltd
 Project: Plot 4000, Gateway 14
 Location: Stourmarket, Suffolk

Issue: 1:20 1:400
 Drawn by: D Butler
 Project Type: Design & Build
 Date Created: 30/01/2023
 Date Revised:
 Revision: B01

1. Do not scale from this drawing.
2. Dimensions are in millimetres unless noted otherwise.
3. All levels are in metres unless noted otherwise.
4. Dimensions are for reference only.
5. Only PDF issues of this drawing are controlled.
6. All other formats of this drawing (e.g. DWG/AutoCAD) are uncontrolled and are used at your own risk.

Project Notes
1. Caution Engineering is not the principal designer for this project.
2. The Principal Designer for this project has responsibility for approving this drawing.
3. The steel frame shown on this drawing has been designed to Eurocode.
4. The steel frame shown on this drawing will be constructed in accordance with the standards specified in the current NBS National Structural Steelwork Specification.
5. Any queries relating to information on this drawing are to be referred, in the first instance to the Principal Designer.
6. This drawing is to be used in conjunction with all information produced by the Principal Designer, Architect, Engineer and all other specialist trade contractors employed on this project.
7. It should not be assumed that the steel frame shown on this drawing has been coordinated with other specialist trade contractors regarding construction interfaces. Any queries should be raised with the Principal Designer.
8. It is the responsibility of all specialist trade contractors that depend upon the steel frame for support to ensure they understand the tolerances defined in the current NBS. Other specialist trade contractors must make provision in the design and construction of their works, including checking dimensions and positions on site if necessary, to deal with any potential conflict of tolerances which may arise.



PURLIN SPEC
Metsec Heavy End Bay System
End Bay Purlin 232Z25
Inner Bay purlin 232Z15
Purlin tie
DPB = Diagonal purlin brace
EB = Eaves brace
SRS = Side rail support
AS = Apex Stiff
UPEB = Under purlin eaves brace
Cleat angle 100x100x1.6 supplied by Caution filled by others

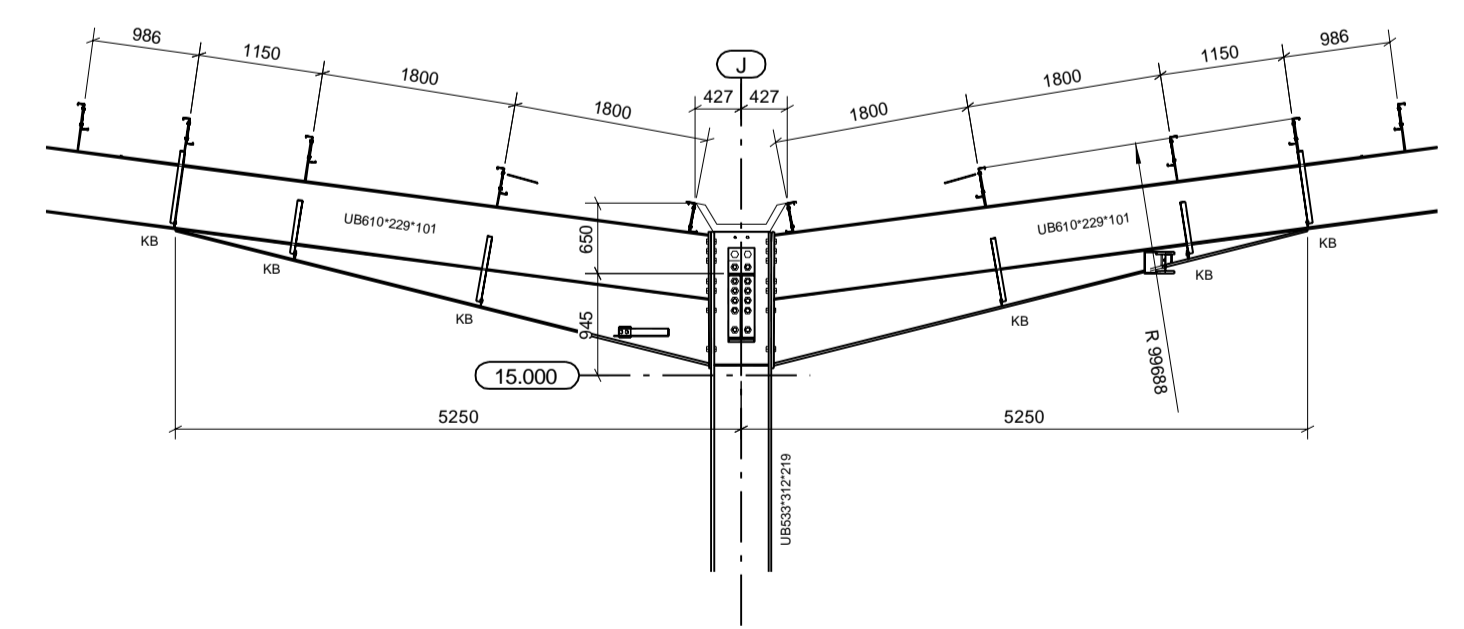
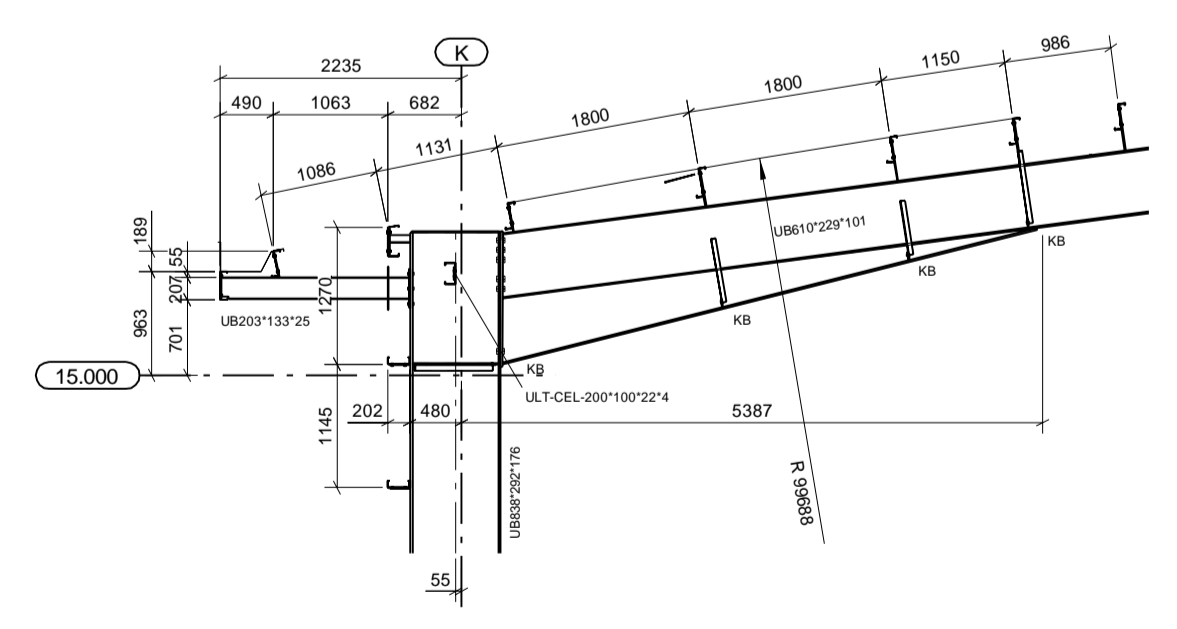
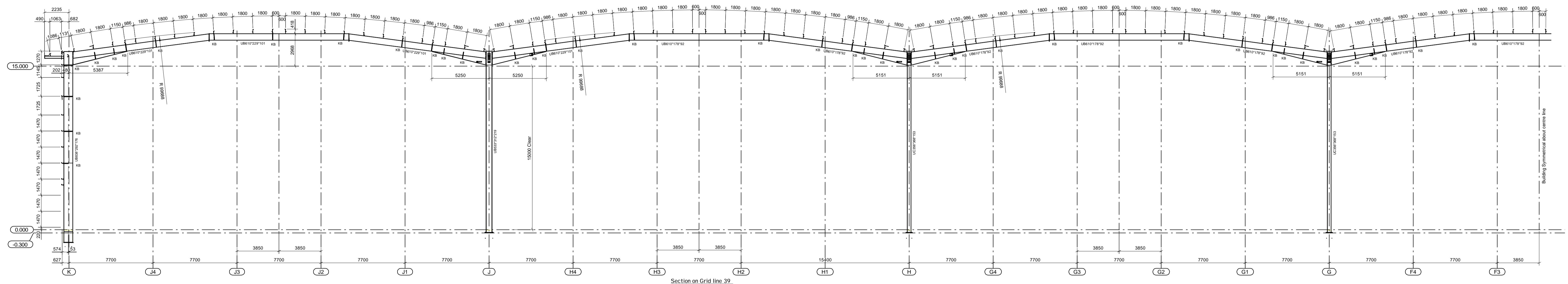
Steelwork Members UOS
Rafter 610x178x92 UB
Gable Rafter 406x102x39 UB
Valley Beam 610x228x125 UB
Sway Brace 200x100x22x4 CEL
Eaves Tie 200x100x22x4 CEL
Valley Brace 70x70x6 RSA

REV	As Built Issue	17/03/21
REV	Construction Issue	03/03/21
REV	Issue	02/08/20
REV	Issue	06/04/20
STATUS: AS BUILT ISSUE		

Warehouse Roof Plan

Client	Caution Engineering Ltd
Project	Warehouse Construction Ltd
Site	Plot 8000, Germany 14
Drawn	AS
Checked	AS
Approved	AS
Date	30.01.2023

- General Notes**
1. Do not scale from this drawing.
 2. Dimensions are in millimetres unless noted otherwise.
 3. All levels are in metres unless noted otherwise.
 4. Elevation mark for construction level.
 5. Check P10 status of this drawing on the drawing file.
 6. All other formats of this drawing (e.g. DWG/AutoCAD) are uncontrolled and are void of your own risk.
- Project Notes**
1. Caution Engineering is not the Principal or Lead Designer for this project.
 2. The Lead Designer for this project has responsibility for approving this drawing.
 3. The steel frame shown on this drawing has been designed to Eurocode 3.
 4. The steel frame shown on this drawing will be erected in accordance with the tolerances specified in the current NBS3 National Structural Steelwork Specification.
 5. Any queries relating to information on this drawing are to be referred, in the first instance to the Lead Designer.
 6. The drawings to be read in conjunction with all information produced by the Lead Designer. All contractors employed on this project should not be assumed the steel frame shown on this drawing has been coordinated with other specialist trade contractors regarding construction methodology. Any queries should be raised with the Lead Designer.
 7. The responsibility of all specialist trade contractors that depend upon the steel frame for support to ensure they understand the tolerances defined in the current NBS3. Other specialist trade contractors must make provision in the design and construction of their works, including checking dimensions and positions on site if necessary, to deal with any potential conflict of tolerances which may arise.



01	As Built	19/03/20
02	Calculation	08/03/20
03	Design	10/03/20
04	Check	20/03/20
05	Issue	01/04/20
06	As Built	01/04/20

STATUS : AS BUILT ISSUE

caution
Engineering & Construction

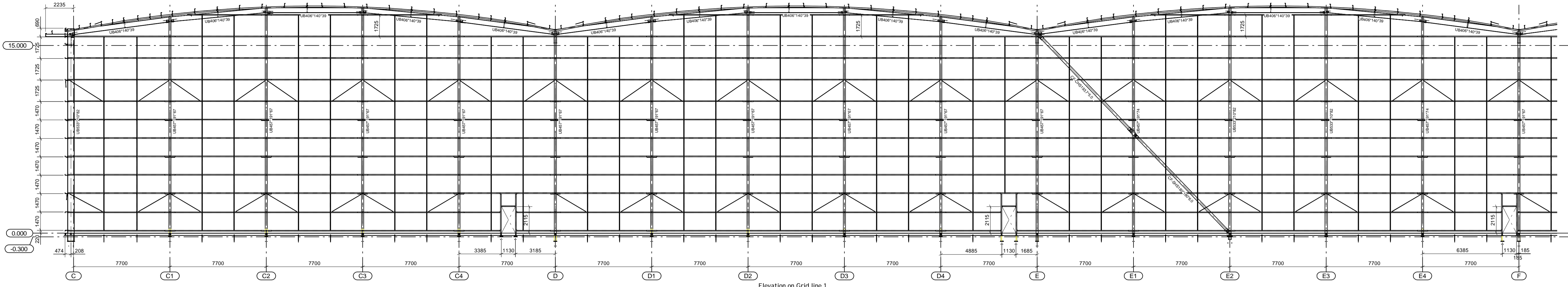
Caution Engineering & Construction
Units: 1000
115, 117 & 119, King's Road, London, W8 5AP
Tel: 020 8996 9000
Fax: 020 8996 9001

Willis Construction Ltd
115, 117 & 119, King's Road, London, W8 5AP
Tel: 020 8996 9000
Fax: 020 8996 9001

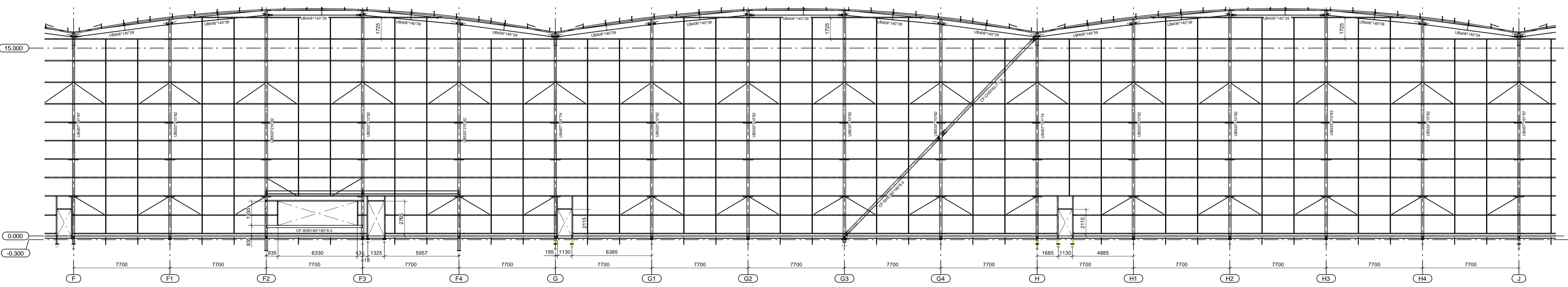
Section on Grid line 39

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1:50	1:125	22/03/20
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P22036-CEL-W1-ZZ-DR-X-0007 B01

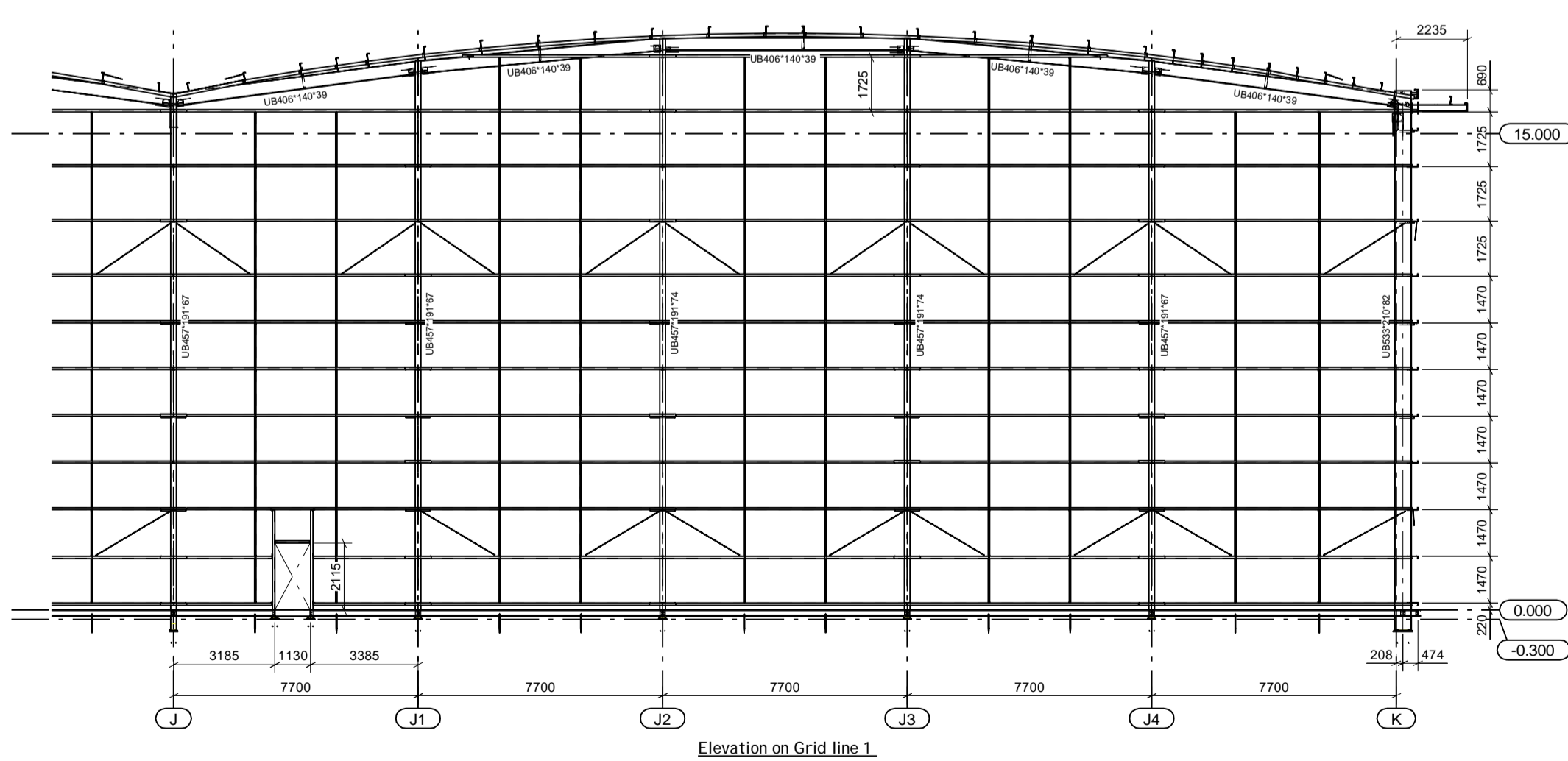


Elevation on Grid line 1



Elevation on Grid line 1

Rail SPEC
Metsec Sleeved system
OUS Rails 200x15
DTW = Diagonal tie wire
SKS = Side rail support
TS = Tubular Strut
Cleat angle 100x100x1.6 supplied by Caution fitted by others



Elevation on Grid line 1

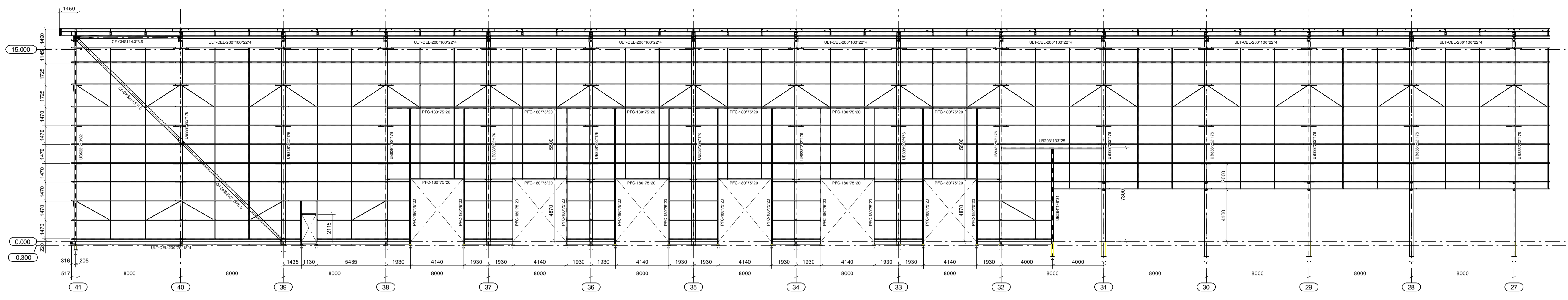
STATUS : AS BUILT ISSUE

Caution Engineering Limited
Unit 10, The Gateway, 14 Gateway Way, Causton, Ipswich, Suffolk, IP1 3PU
Tel: 01473 211111 Fax: 01473 211111
www.caution-engineering.co.uk

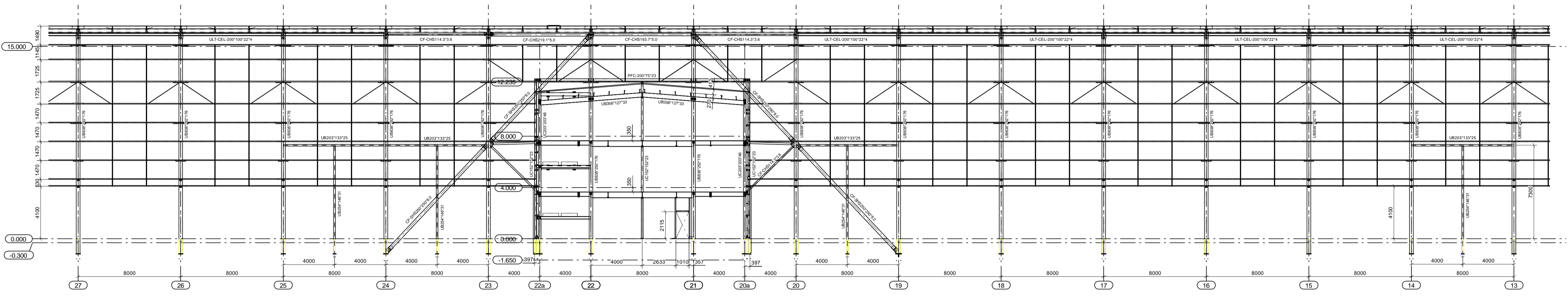
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02	Causton	08/08/20
03	Causton	10/08/20
04	Causton	10/08/20
05	Causton	10/08/20
06	Causton	10/08/20
07	Causton	10/08/20

Project Name: 22019
Project Type: Design & Build
Issue Date: 30/07/2020

P22036-CEL-W1-ZZ-DR-X-0012 B01

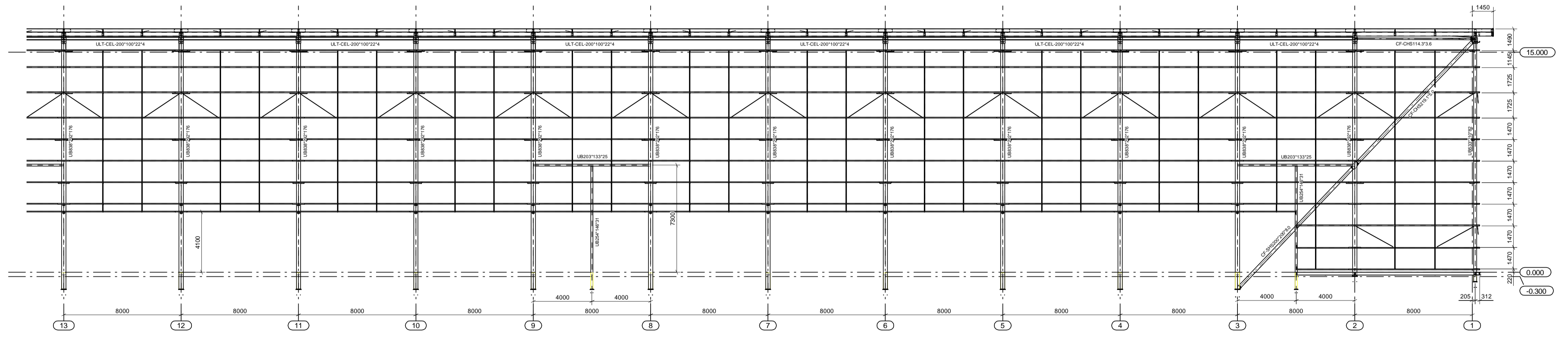


Elevation on Grid line C



Elevation on Grid line C

Rail SPEC
 Metsec Steeved system
 OUS Rails 202C 15
 DTW = Diagonal tie wire
 SRS = Side rail support
 TS = Tubular Strut
 Cleader angle 100x100x1.6 supplied by Caution fitted by others



Elevation on Grid line C

01	As Built	19/03/20
02	Calculation	03/04/20
03	Structural Steel	10/04/20
04	Structural Steel	10/04/20
05	Structural Steel	10/04/20
06	Structural Steel	10/04/20
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39	Structural Steel	10/04/20
40	Structural Steel	10/04/20
41	Structural Steel	10/04/20

STATUS : AS BUILT ISSUE

caution
 Caution Engineering Limited
 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200

Wills Construction Ltd
 Plot 4000, Gateway 14
 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200

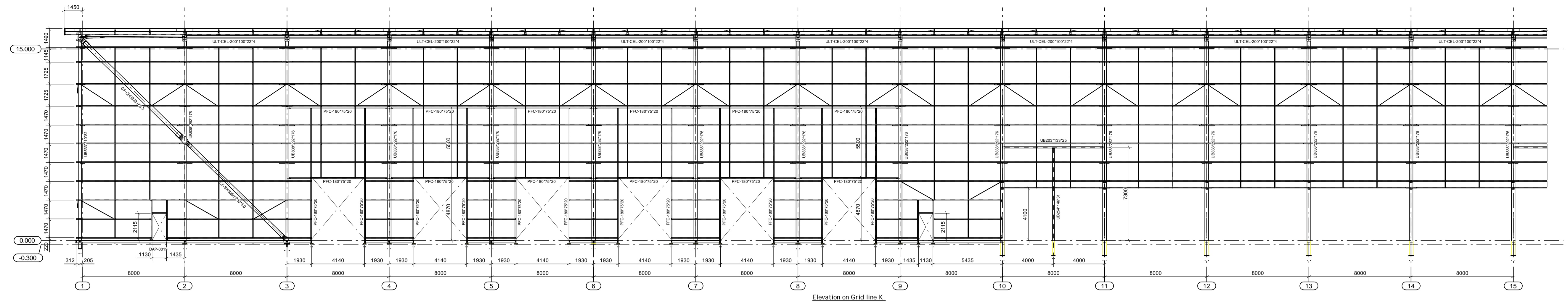
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 Design & Build
 27/03/2020

General Notes

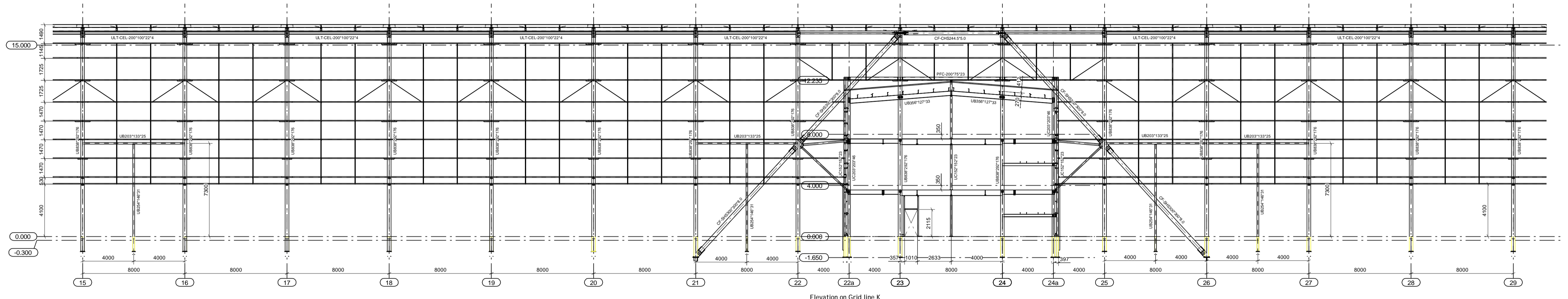
- Do not scale from this drawing.
- Dimensions are in millimetres unless noted otherwise.
- All levels are in metres unless noted otherwise.
- Excavation levels are indicated by dashed lines.
- CF = Cast in place concrete.
- All other symbols of this drawing (e.g. DWG/CAUTION) are uncontrolled and are used at your own risk.

Project Notes

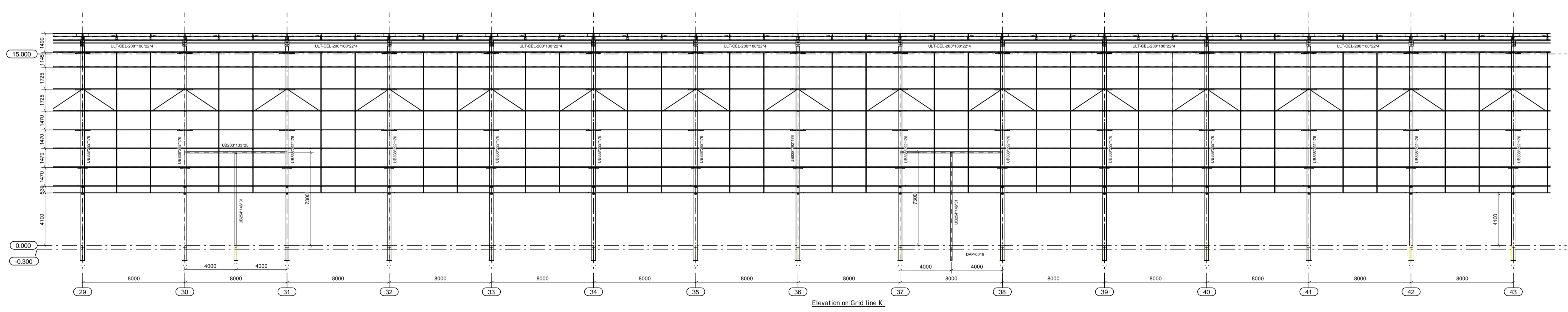
- Caution Engineering is not the Principal or Lead Designer for this project.
- The Lead Designer for this project has responsibility for approving this drawing.
- The steel frame shown on this drawing has been designed in accordance with the relevant specifications in the current NZS National Structural Steelwork Specification.
- Any queries relating to information on this drawing are to be referred, in the first instance, to the Lead Designer.
- This drawing is to be read in conjunction with all drawings produced by the Lead Designer.
- It should not be assumed the steel frame shown on this drawing has been coordinated with other specialist trade contractors regarding construction methodology. Any queries should be raised with the Lead Designer.
- The responsibility of all specialist trade contractors that depend upon the steel frame for support to ensure they understand the loadcases defined in the current NZS. Other specialist trade contractors must make provision for the design and construction of their works, including checking dimensions and positions on site, if necessary, to deal with any potential conflict of tolerances which may arise.



Elevation on Grid line K

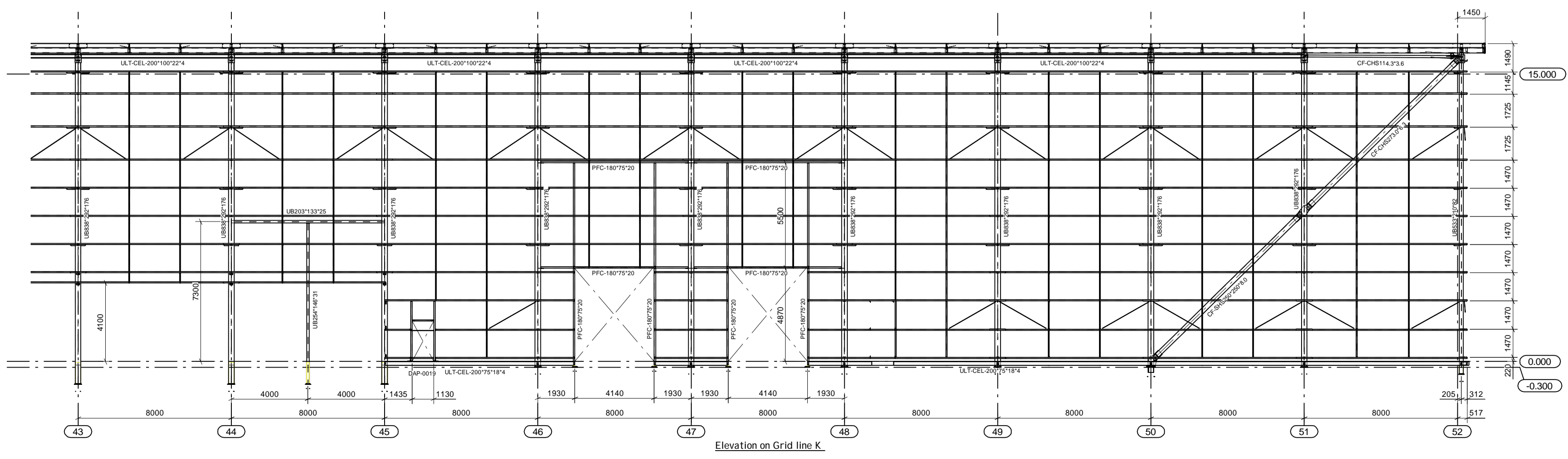


Elevation on Grid line K



Elevation on Grid line K

Rail SPEC
 Mosaic Slotted system
 OUS Rails 202C15
 DTW = Diagonal tie wire
 SRS = Steel rail support
 TS = Tubular Strut
 Cleader angle 100x100x1.6 supplied by Caution fitted by others.



Elevation on Grid line K

NO	As Built	19/03/2019
01	Issue for construction	19/03/2019
02	Construction	19/03/2019
03	Construction	19/03/2019
04	Construction	19/03/2019
05	Construction	19/03/2019
06	Construction	19/03/2019
07	Construction	19/03/2019
08	Construction	19/03/2019
09	Construction	19/03/2019
10	Construction	19/03/2019
11	Construction	19/03/2019
12	Construction	19/03/2019
13	Construction	19/03/2019
14	Construction	19/03/2019
15	Construction	19/03/2019
16	Construction	19/03/2019
17	Construction	19/03/2019
18	Construction	19/03/2019
19	Construction	19/03/2019
20	Construction	19/03/2019
21	Construction	19/03/2019
22	Construction	19/03/2019
23	Construction	19/03/2019
24	Construction	19/03/2019
25	Construction	19/03/2019
26	Construction	19/03/2019
27	Construction	19/03/2019
28	Construction	19/03/2019
29	Construction	19/03/2019
30	Construction	19/03/2019
31	Construction	19/03/2019
32	Construction	19/03/2019
33	Construction	19/03/2019
34	Construction	19/03/2019
35	Construction	19/03/2019
36	Construction	19/03/2019
37	Construction	19/03/2019
38	Construction	19/03/2019
39	Construction	19/03/2019
40	Construction	19/03/2019
41	Construction	19/03/2019
42	Construction	19/03/2019
43	Construction	19/03/2019
44	Construction	19/03/2019
45	Construction	19/03/2019
46	Construction	19/03/2019
47	Construction	19/03/2019
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49	Construction	19/03/2019
50	Construction	19/03/2019
51	Construction	19/03/2019
52	Construction	19/03/2019

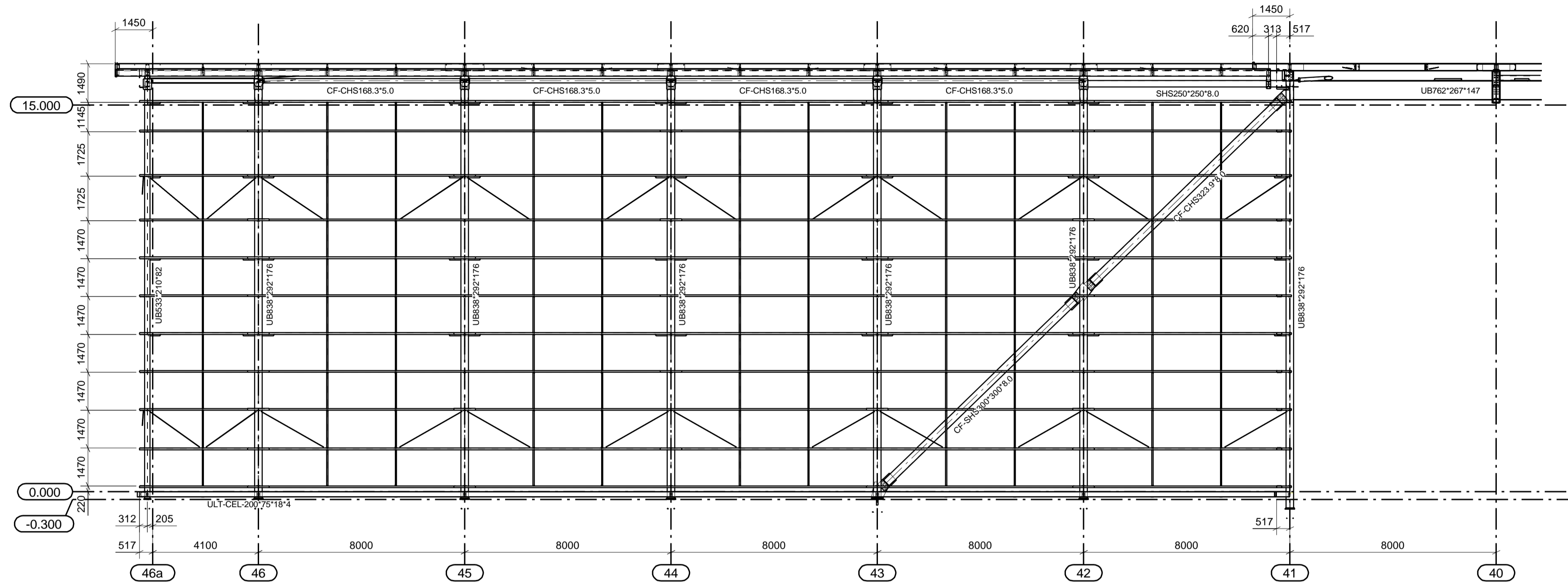
STATUS : AS BUILT ISSUE

caution
 Engineering & Construction Ltd
 100/102, Galloway Rd
 Auckland, New Zealand
 Tel: 09 224 2222
 Fax: 09 224 2223
 Email: info@caution.co.nz

Project Name: P22036-CEL-W1-ZZ-DR-X-0016
 Issue No: 01
 Date: 19/03/2019
 Drawn By: [Name]
 Checked By: [Name]
 Design & Build: [Name]
 Date: 19/03/2019

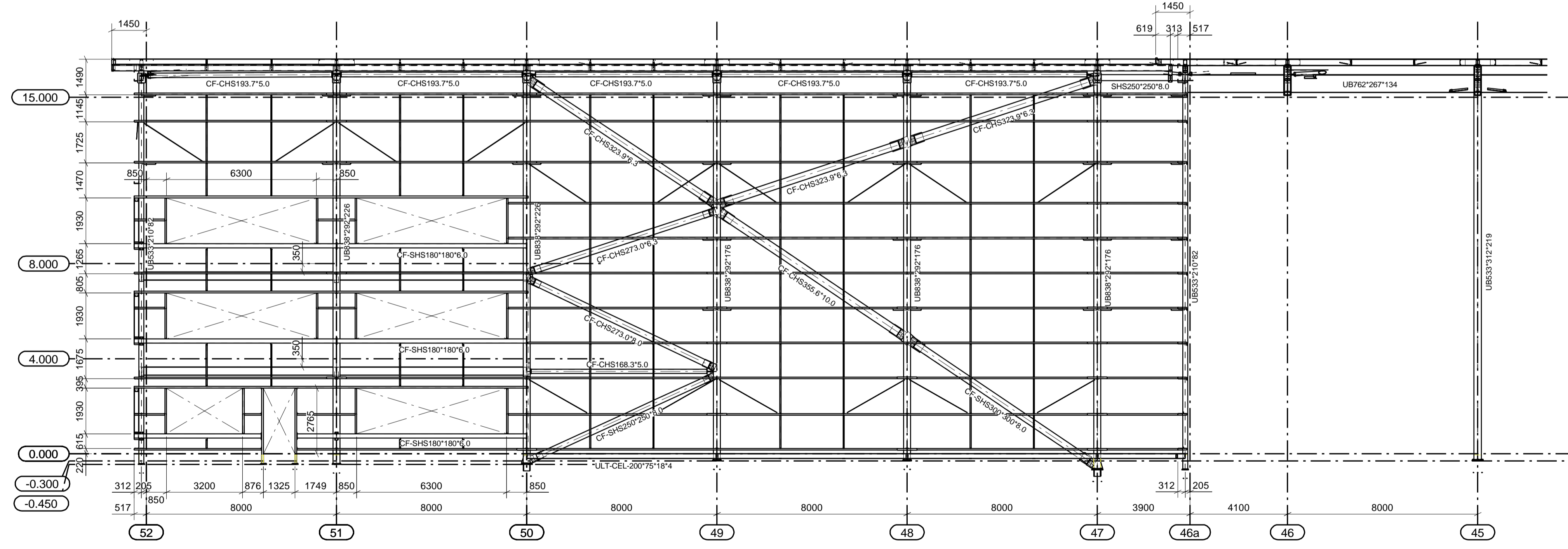
- General Notes**
1. Do not scale from this drawing
 2. Dimensions are in millimetres unless noted otherwise.
 3. All levels are in metres unless noted otherwise
 4. Erection marks for orientation denoted
 5. Only PDF issues of this drawing are controlled
 6. All other formats of this drawing (e.g. DWG/AutoCad) are uncontrolled and are user at your own risk.

- Project Notes**
1. Caution Engineering is not the Principal or Lead Designer for this project.
 2. The Lead Designer for this project has responsibility for approving this drawing.
 3. The steel frame shown on this drawing has been designed to Eurocode 3.
 4. The steel frame shown on this drawing will be erected in accordance with the tolerances specified in the current NSSS (National Structural Steelwork Specification).
 5. Any queries relating to information on this drawing are to be referred, in the first instance to the Lead Designer.
 6. This drawing is to be read in conjunction with all information produced by the Lead Designer, Architect, Engineer and all other specialist trade contractors employed on this project.
 7. It should not be assumed the steel frame shown on this drawing has been coordinated with other specialist trade contractors regarding construction interfaces. Any queries should be raised with the Lead Designer.
 8. It is the responsibility of all specialist trade contractors that depend upon the steel frame for support to ensure they understand the tolerances defined in the current NSSS. Other specialist trade contractors must make provision in the design and construction of their works, including checking dimensions and positions on site if necessary, to deal with any potential conflict of tolerances which may arise.



Elevation on Grid line D

Rail SPEC
 Metsec Sleeved system
 OUS Rails 202C15
 DTW = Diagonal tie wire
 SRS = Side rail support
 TS = Tubular Strut
 Cleader angle 100x100x1.6 supplied by Caution fitted by others



Elevation on Grid line E

REV	NO	DESCRIPTION	DATE
001	1	As built issue	11/02/2023
002	2	Construction issue	03/03/2023
003	3	Ground beam removed	22/02/2023
004	4	Overing line altered Door altered	10/02/2023
005	5	Problems way issue	03/02/2023
006	6	REVISION OF DESCRIPTION	REV DATE

STATUS : AS BUILT ISSUE

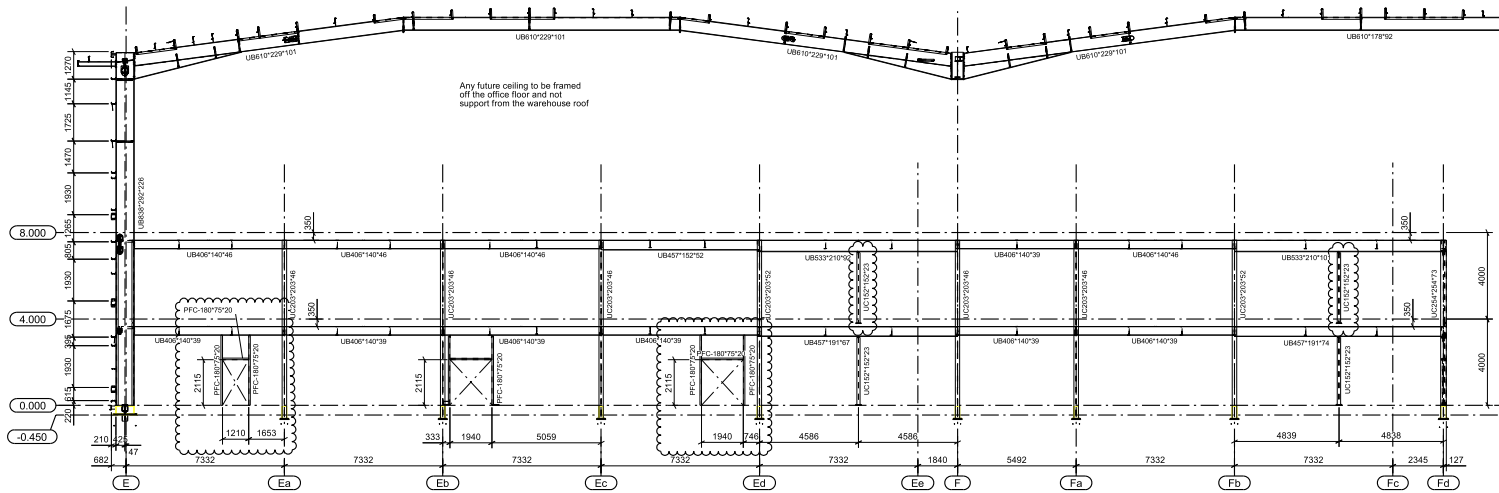
Caution Engineering Limited
 Moorgreen Industrial Park
 Moorgreen, Wymondham, Norfolk, NG21 3JQ
 TEL: 01753 811111 FAX: 01753 838800
 www.caution.co.uk
 Tech:Sales@caution.co.uk

Client: Wincis Construction Ltd
 Project: Gateway 14
 Plot 4000, Gateway 14
 Stowmarket, Suffolk

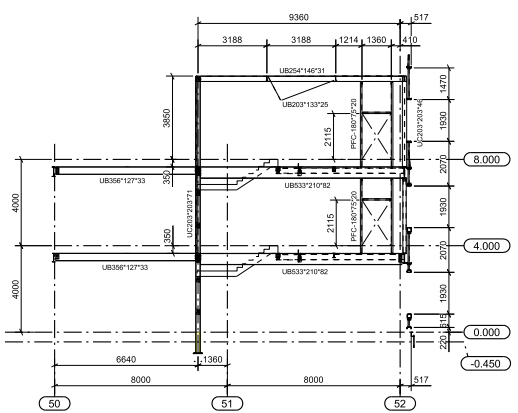
Scale: 1:125	ECN Job No: 22019
Drawn by: D Butler	Project Type: Design & Build
Checked/Reviewed by:	Date Released:
Revision: P22036-CEL-W1-ZZ-DR-X-0017	Revision: B01

- General Notes**
- Do not scale from this drawing.
 - Dimensions are in millimetres unless noted otherwise.
 - All levels are in metres unless noted otherwise.
 - Erection mark for orientation denoted.
 - Only RFP values of this drawing are correct.
 - All other formats of this drawing (e.g. DWG/AutoCAD) shall be controlled and the user's own risk.

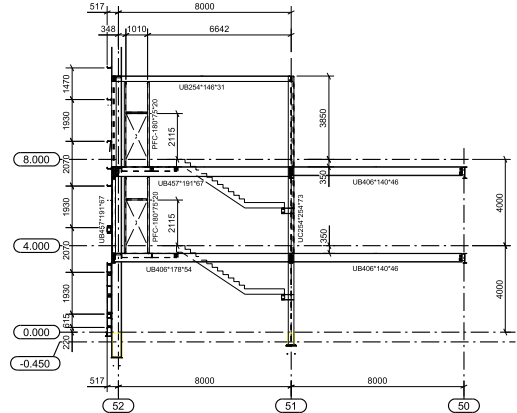
- Project Notes**
- Caunton Engineering is not the Principal or Lead Designer for this project.
 - The Lead Designer for this project has responsibility for approving this drawing.
 - The steel frame shown on this drawing has been designed to Eurocode 3.
 - The steel frame shown on this drawing will be erected in accordance with the tolerance specified in the current BS5950 National Structural Steelwork Specification.
 - Any queries relating to information on this drawing are to be referred, in the first instance to the Lead Designer.
 - This drawing is to be read in conjunction with all information produced by the Lead Designer, Architect, Engineer and all other specialist trade contractors employed on this project.
 - It should not be assumed the steel frame shown on this drawing has been coordinated with other specialist trade contractors regarding construction practices. Any queries should be raised with the Lead Designer.
 - It is the responsibility of all specialist trade contractors that depend upon the steel frame for support to ensure they understand the tolerances outlined in the current BS5950. Other specialist trade contractors must make provision in the design and construction of their works, including checking dimensions and positions on site if necessary, to deal with any potential conflict of tolerances which may arise.



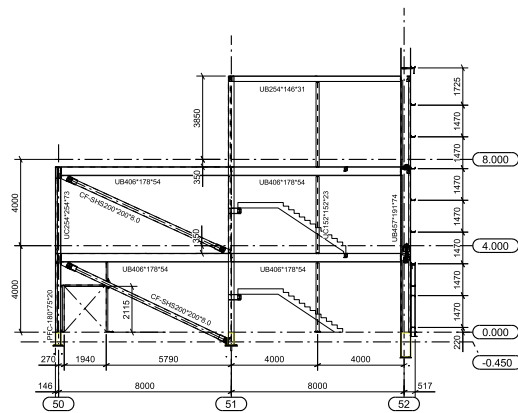
Elevation on Grid line 50



Section on Grid line E3



Section on Grid line Fc



Section on Grid line Fd

82	Structural Steelwork (Issue)	13/02/20
83	Revisions	07/10/20
84	Revised layout sheet	07/04/20
85	Structural Steelwork	13/02/20
86	Revisions (Issue 02)	13/02/20
87	Revisions (Issue 03)	13/02/20
88	Revisions (Issue 04)	13/02/20
89	Revisions (Issue 05)	13/02/20
90	Revisions (Issue 06)	13/02/20

STATUS: AS BUILT ISSUE

caunton
Engineering Limited

Caunton Engineering Limited
 11, Moorpark Road, Epsom, Surrey, Surrey, Surrey, Surrey
 Surrey, Surrey, Surrey, Surrey, Surrey, Surrey, Surrey, Surrey
 Surrey, Surrey, Surrey, Surrey, Surrey, Surrey, Surrey, Surrey
 Surrey, Surrey, Surrey, Surrey, Surrey, Surrey, Surrey, Surrey

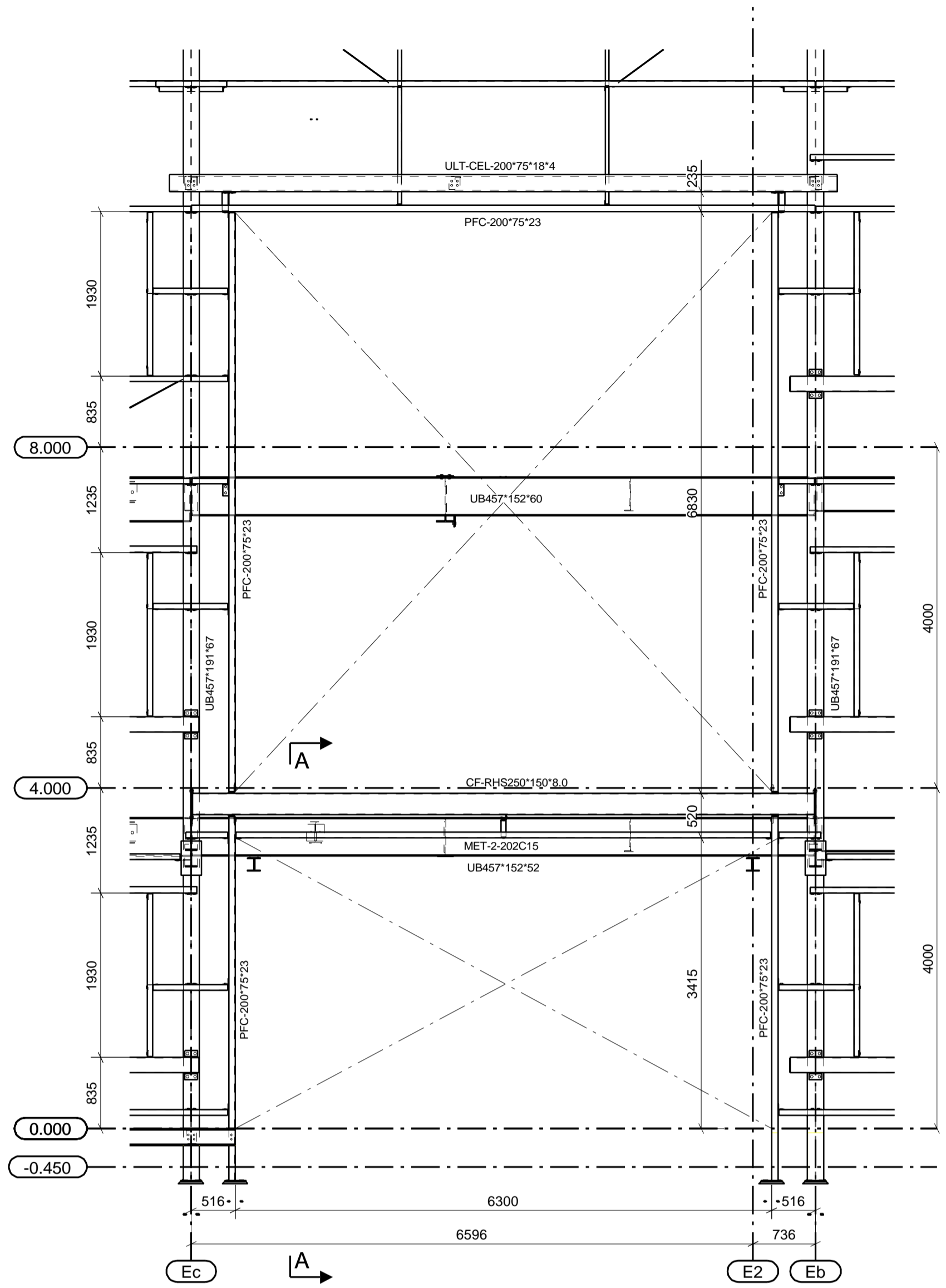
Unit: Construction Ltd
 Plot: 4000, Gateway 14
 Borehamwood, Suburb
 Planning No:
 Office Erections and Elevations

Drawn: J. Watson
 Checked: J. Watson
 Date: 13/02/2023

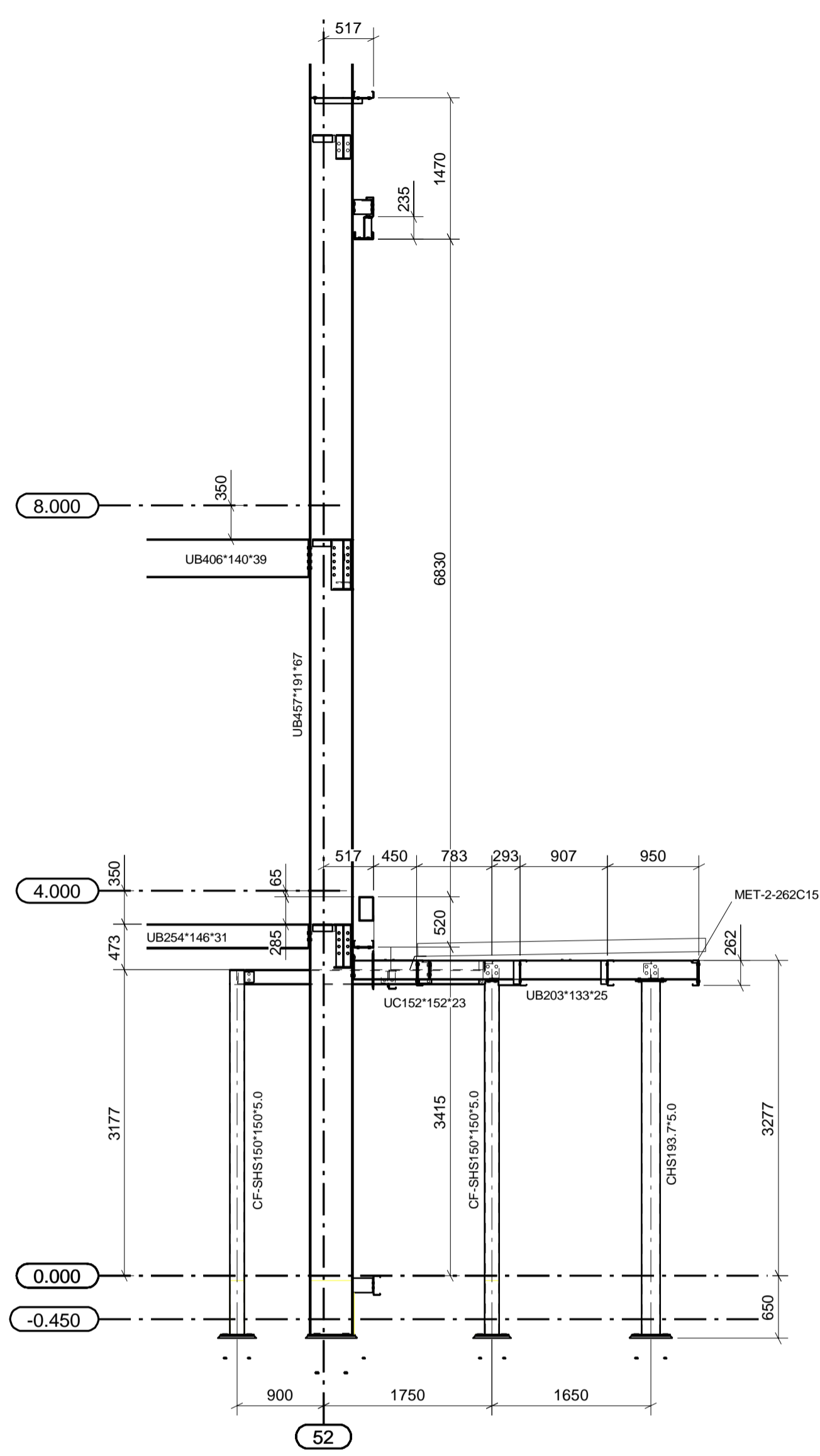
Scale: 1:25
 Project: P22036-CEL-W1-ZZ-OR-X-0018
 Date: 13/02/2023

- General Notes**
1. Do not scale from this drawing
 2. Dimensions are in millimetres unless noted otherwise.
 3. All levels are in metres unless noted otherwise
 4. Erection marks for orientation denoted
 5. Only PDF issues of this drawing are controlled
 6. All other formats of this drawing (e.g. DWG/AutoCad) are uncontrolled and are user at your own risk.

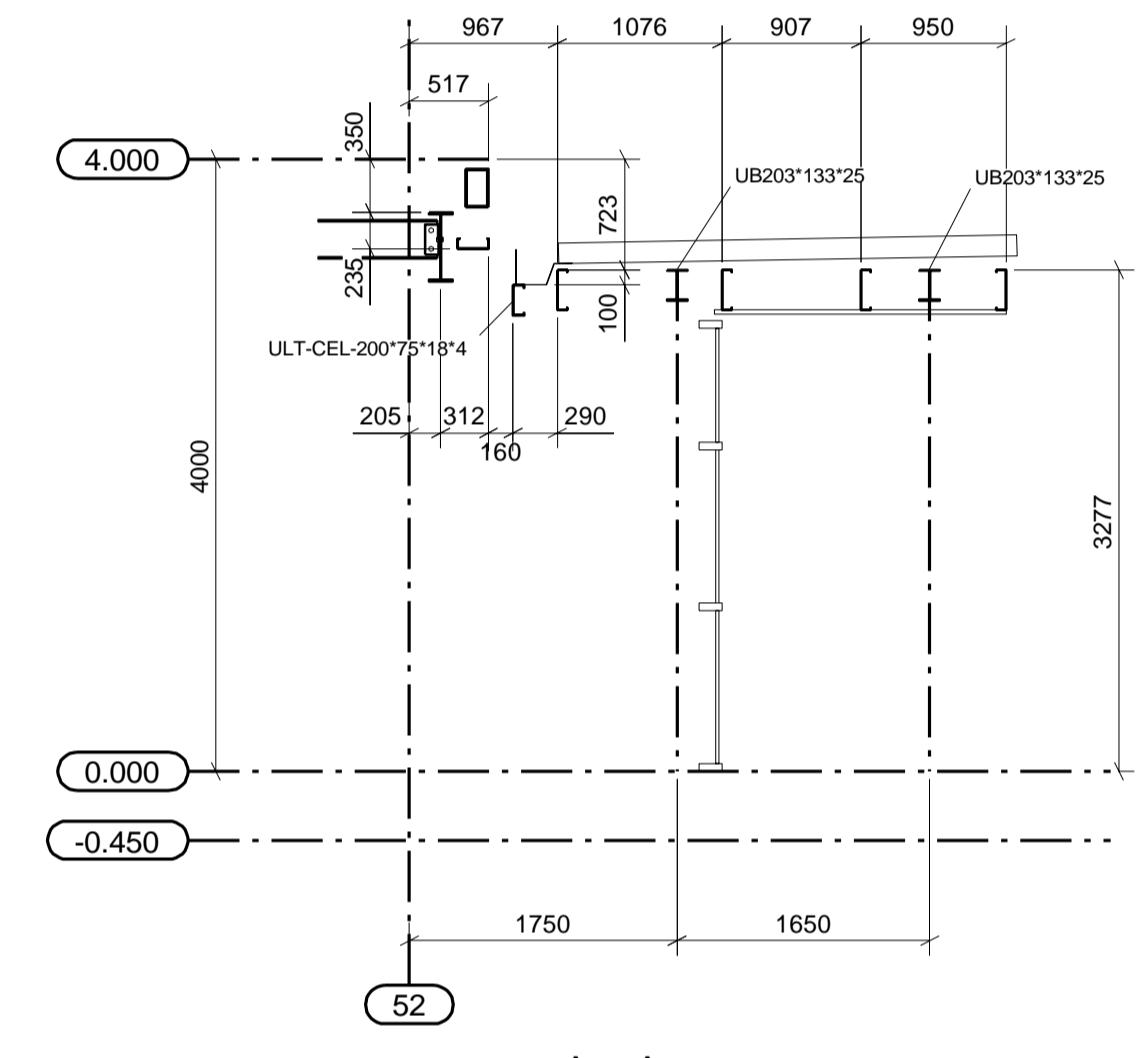
- Project Notes**
1. Caution Engineering is not the Principal or Lead Designer for this project.
 2. The Lead Designer for this project has responsibility for approving this drawing.
 3. The steel frame shown on this drawing has been designed to Eurocode 3.
 4. The steel frame shown on this drawing will be erected in accordance with the tolerances specified in the current NSSS (National Structural Steelwork Specification).
 5. Any queries relating to information on this drawing are to be referred, in the first instance to the Lead Designer.
 6. This drawing is to be read in conjunction with all information produced by the Lead Designer, Architect, Engineer and all other specialist trade contractors employed on this project.
 7. It should not be assumed the steel frame shown on this drawing has been coordinated with other specialist trade contractors regarding construction interfaces. Any queries should be raised with the Lead Designer.
 8. It is the responsibility of all specialist trade contractors that depend upon the steel frame for support to ensure they understand the tolerances defined in the current NSSS. Other specialist trade contractors must make provision in the design and construction of their works, including checking dimensions and positions on site if necessary, to deal with any potential conflict of tolerances which may arise.



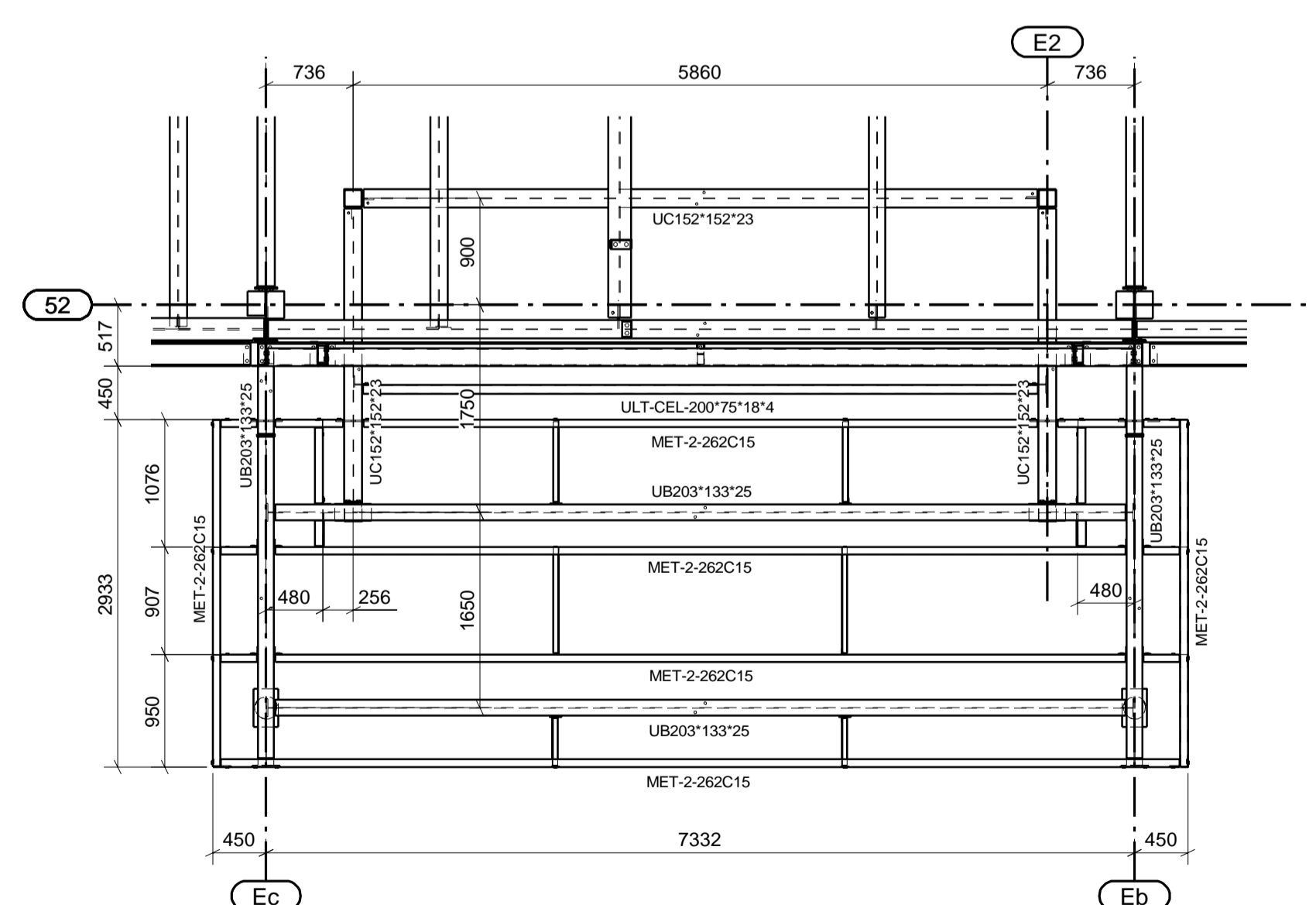
Elevation on Grid line 52



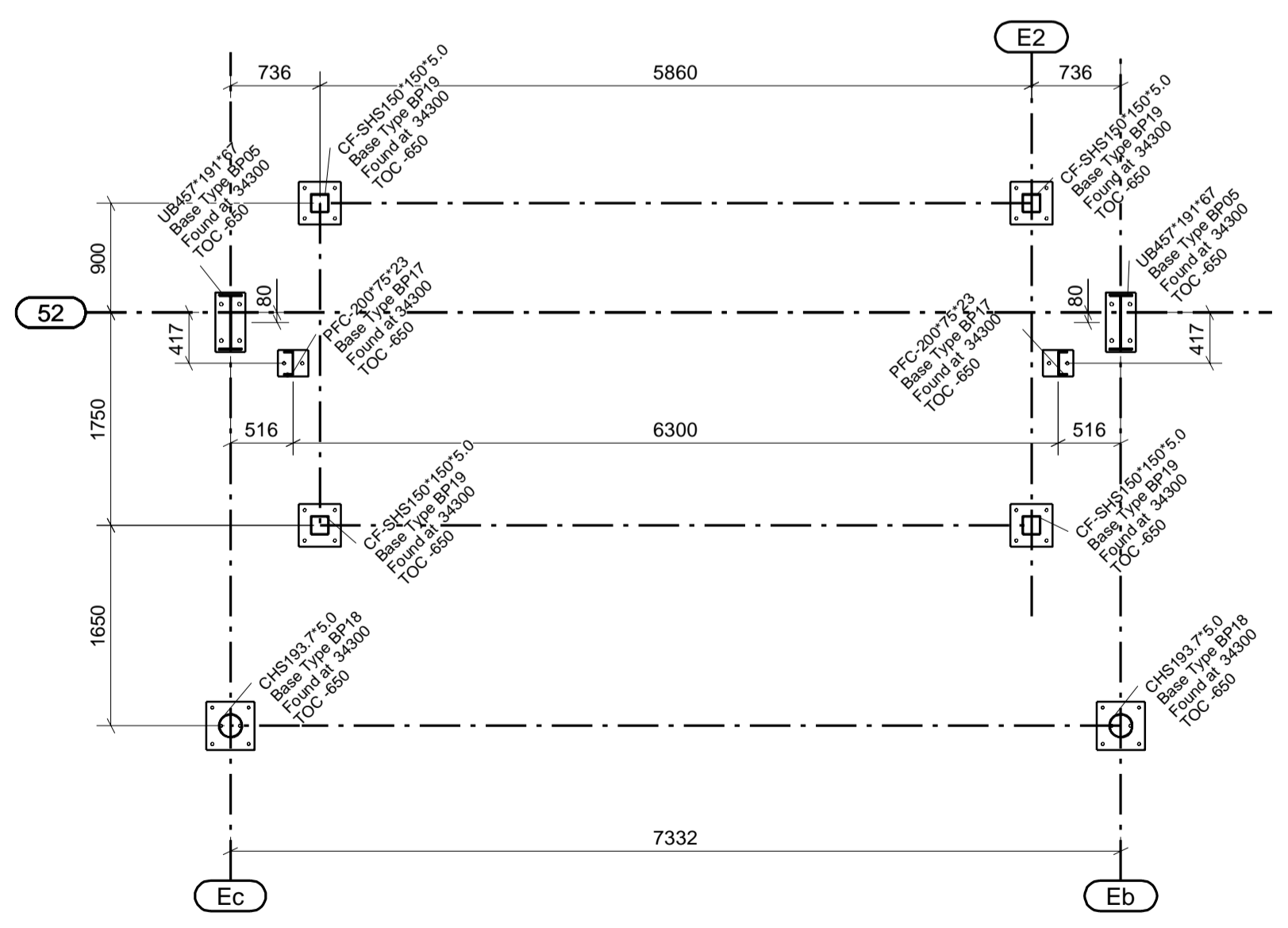
Section on Grid line Ec



A - A



Canopy Plan



Canopy Foundation Plan

REV	NO	REVISION OR DESCRIPTION	REV DATE
B01	As-Built Issue		17.10.2023
C02	Client support added		07.06.2023
C03	Revised to client		10.04.2023
C04	Site positions altered		14.03.2023
P02	Designing the client		10.02.2023
P05	Preliminary Issue		03.02.2023

STATUS : AS BUILT ISSUE

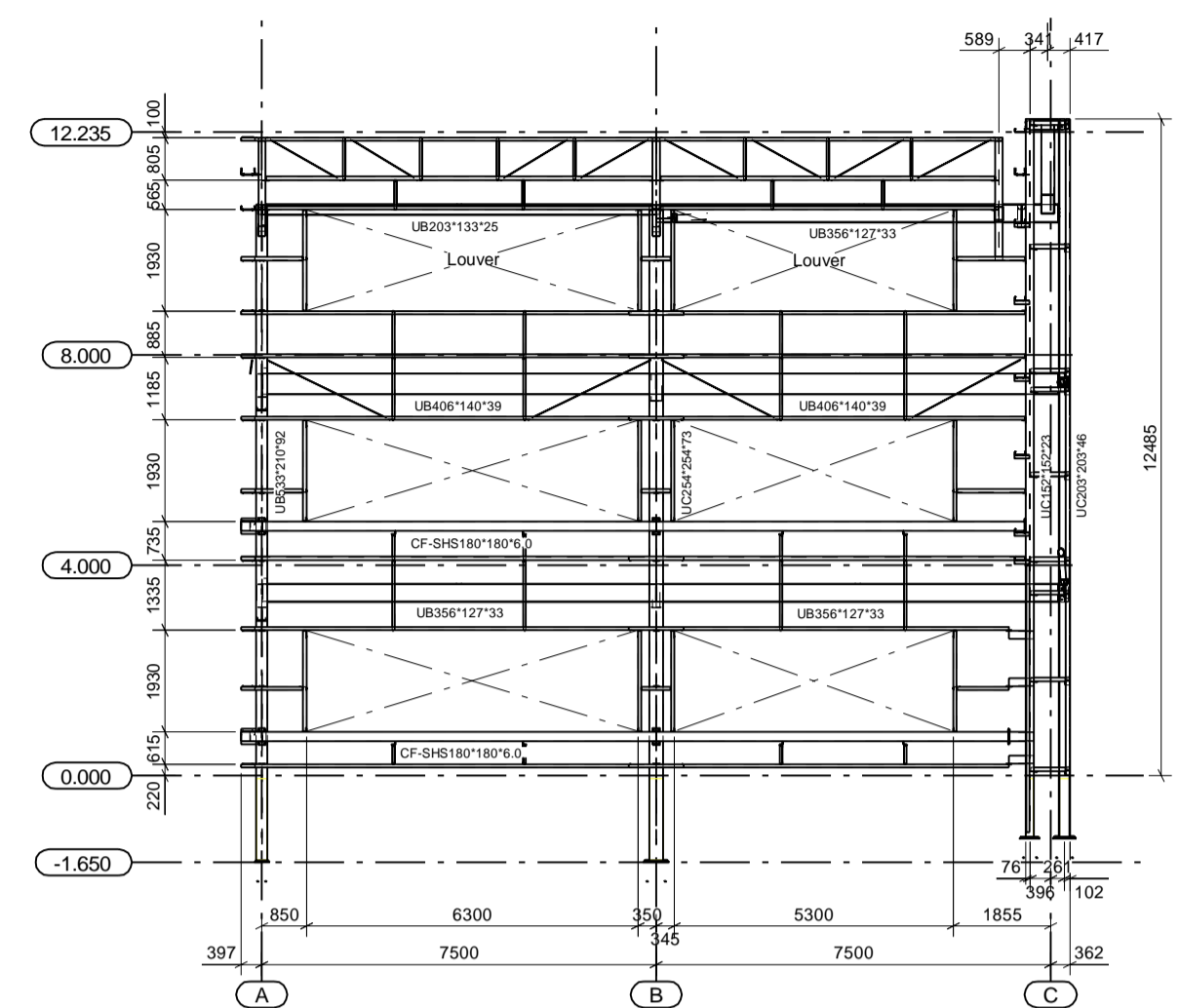


Client: Winc Construction Ltd
 Project Overview: Plot 4000, Gateway 14
 Project Name: Stowmarket, Suffolk
 Drawing Title: Office Canopy Details

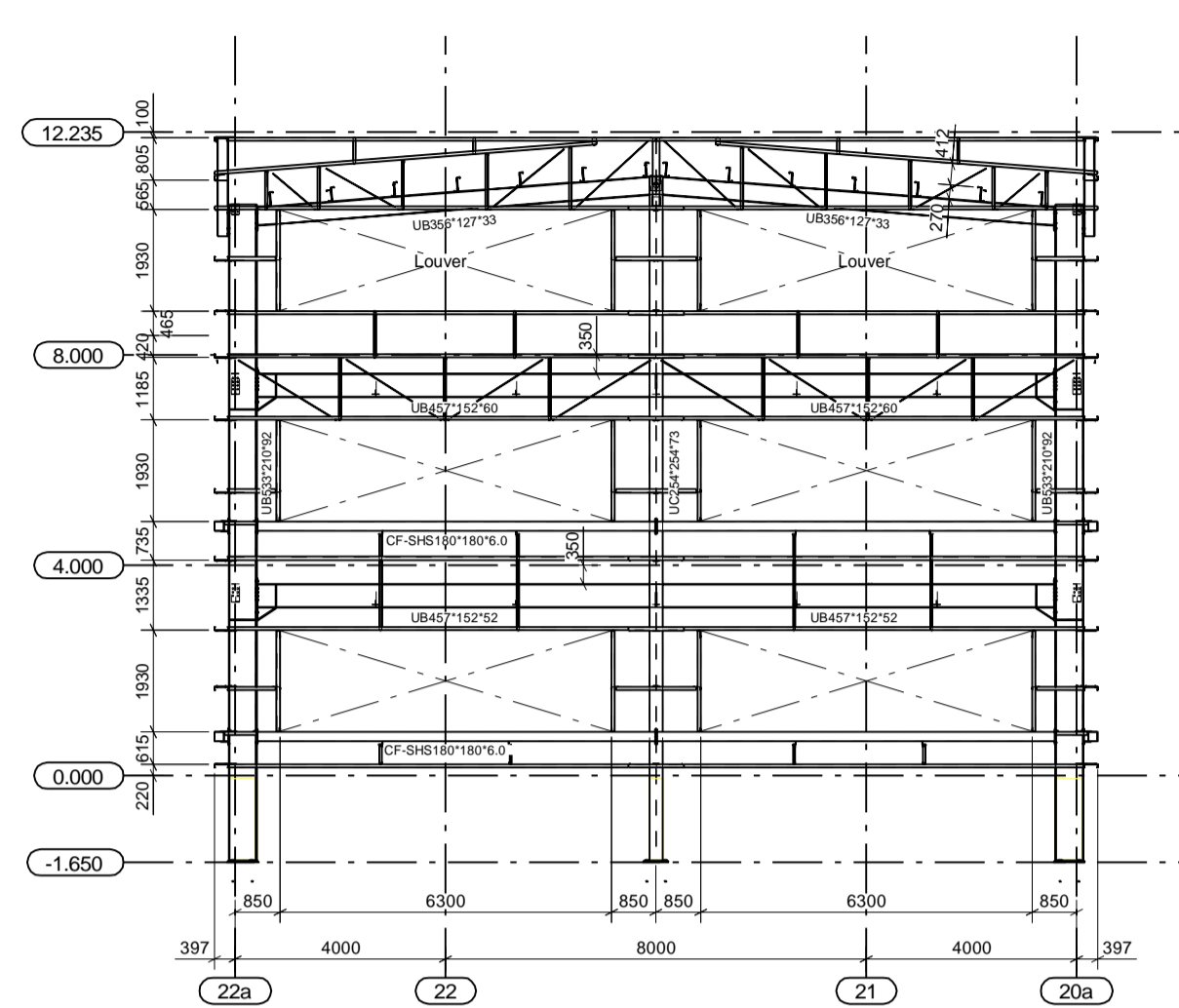
Scale	ECN Job No
1:50	22019
Drawn by: D Butler	Project Type: Design & Build
Designated Reviewed by:	Date Created: 01.02.2023
Revision: P22036-CEL-W1-ZZ-DR-X-0019	Revision: B01

General Notes
1. Do not scale from this drawing.
2. Dimensions are in millimetres unless noted otherwise.
3. All levels are in metres unless noted otherwise.
4. Elevation marks for construction shown.
5. Draw PFC details of this drawing are contained in the current NSEB National Structural Steelwork Specification.
6. All other formats of this drawing (e.g. DWG/AutoCAD) are uncontrolled and are void of your own risk.

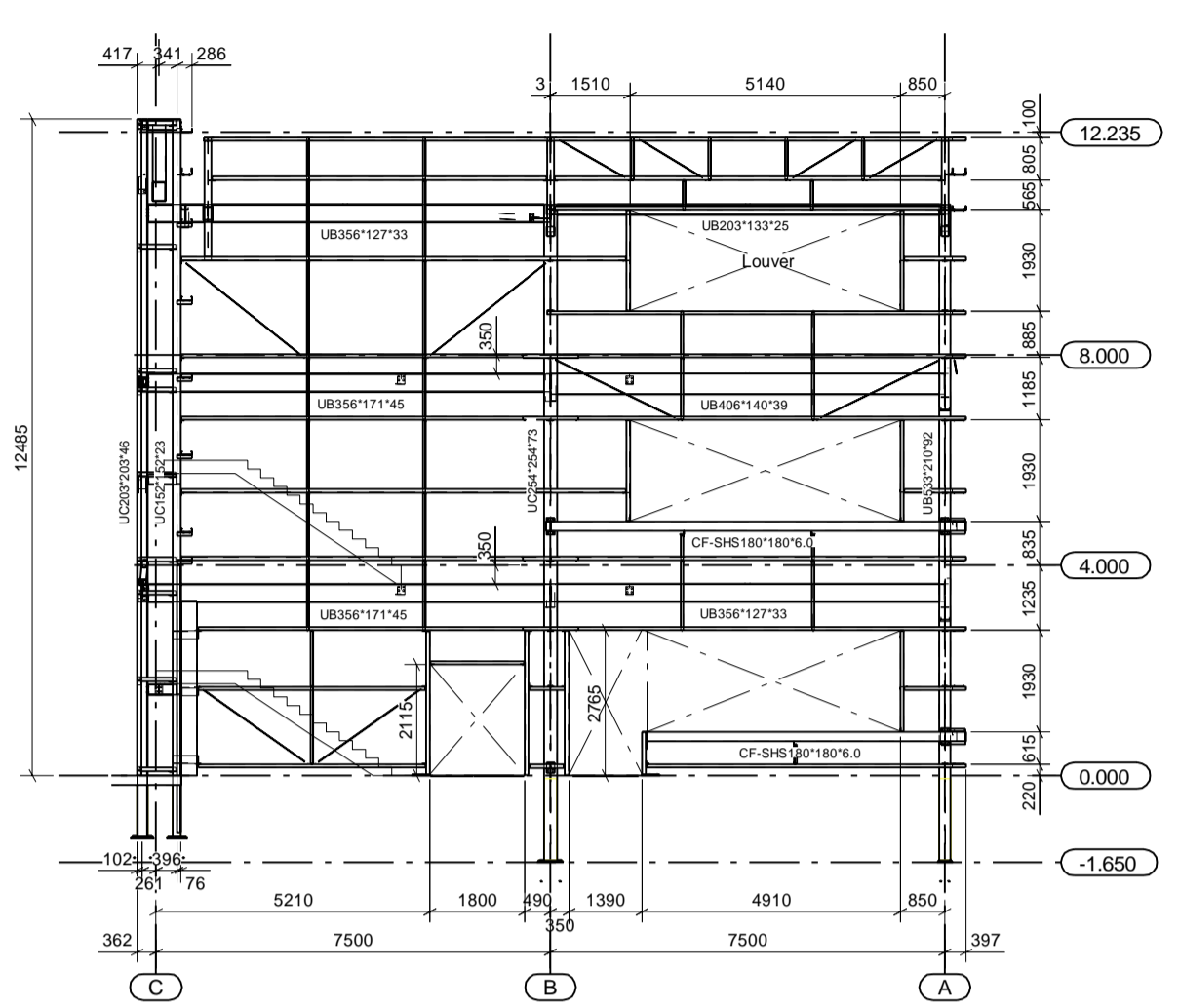
Project Notes
1. Caution Engineering is not the Principal of Lead Designer for this project.
2. The Lead Designer for this project has responsibility for approving this drawing.
3. The steel frame shown on this drawing has been designed in accordance with the information specified in the current NSEB National Structural Steelwork Specification.
4. Any queries relating to information on this drawing are to be referred to the first instance to the Lead Designer.
5. The drawings to be used in conjunction with all information contained in this drawing are contained in the current NSEB National Structural Steelwork Specification.
6. It should not be assumed the steel frame shown on this drawing has been coordinated with other specialist trade contractors regarding construction. Any queries should be raised with the Lead Designer.
7. The responsibility of all specialist trade contractors that depend upon the steel frame for support to ensure they understand the tolerances defined in the current NSEB. Other specialist trade contractors must make provision in their design and construction of their works, including checking dimensions and positions on site if necessary, to deal with any potential conflict of tolerances which may arise.



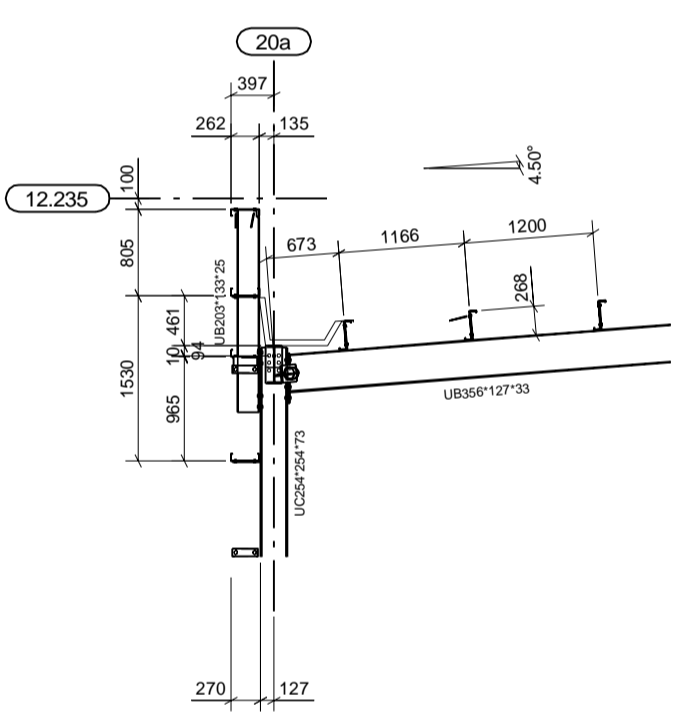
Elevation on Grid line 20a



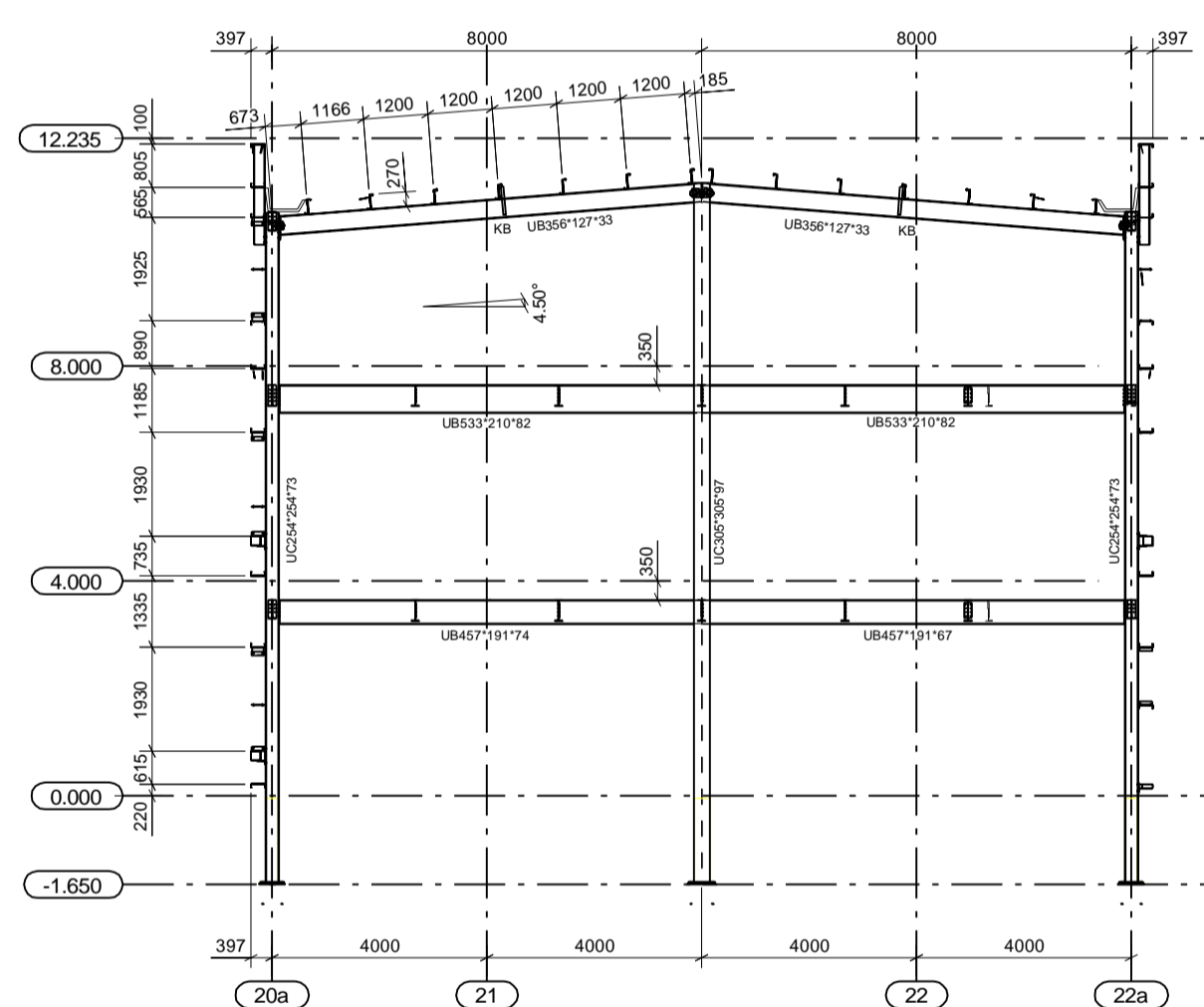
Elevation on Grid line A



Elevation on Grid line 22a

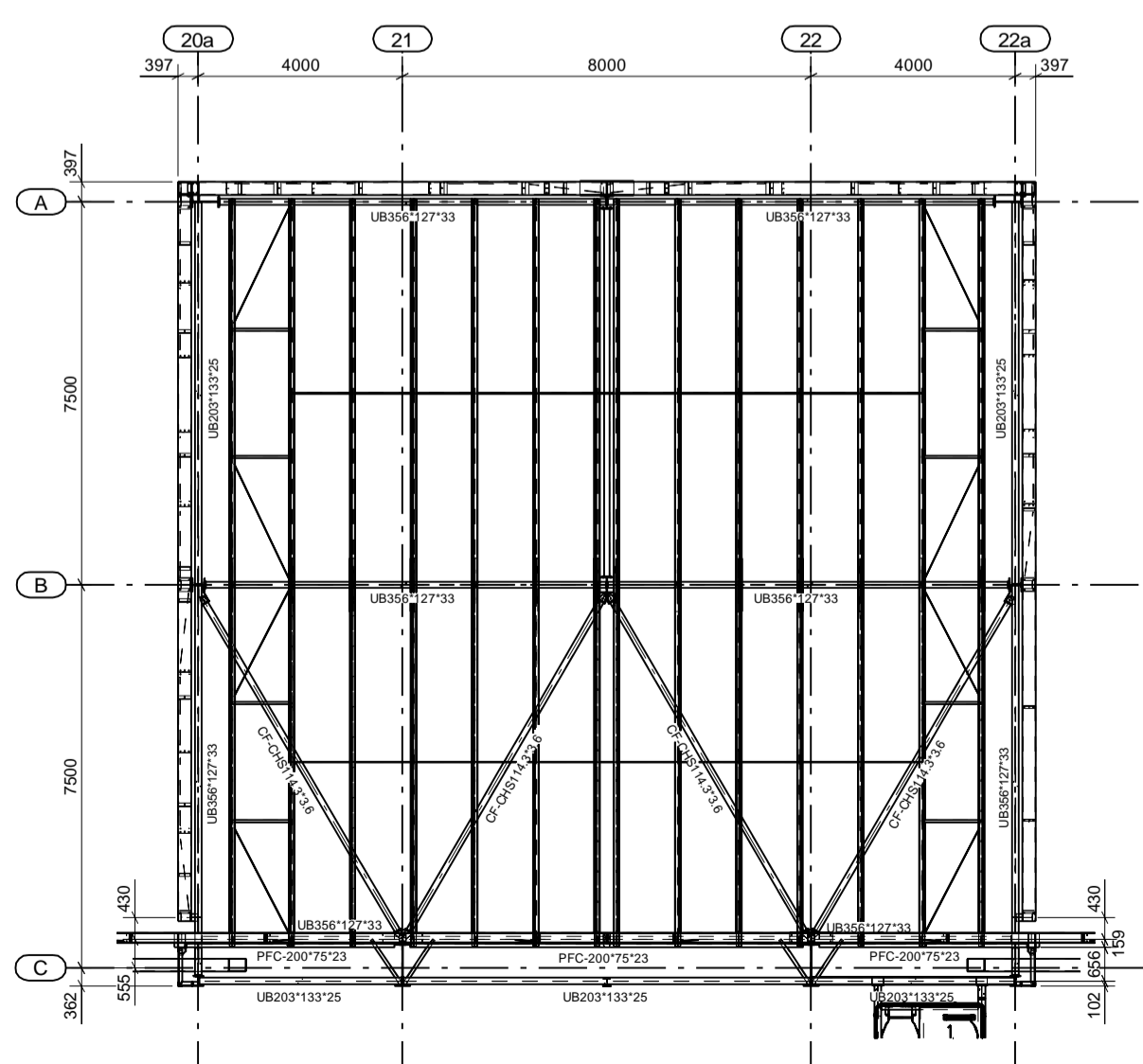


Eaves detail on Grid line 20a



Section on Grid line B

Rail SPEC
Metsec butt system
OUS Rails 262C15
DTW = Diagonal tie wire
SRS = Side rail support
TS = Tubular Strut
Cleader angle 100x100x1.6 supplied by Caution
fitted by others



Dis 1 - Roof Plan

PURLIN SPEC
Metsec sleeved system
OUS Purlins 262Z18
PT = Purlin tie
DPB = Diagonal purlin brace
EB = Eave brace
SRS = Side rail support
AS = Apex Strut
UPEB = Under purlin eaves brace
Cleader angle 100x100x1.6 supplied by Caution
fitted by others

Rev	Description	Date
01	As Issued	15.03.2019
02	Gate support detail	09.03.2019
03	Under eaves detail	09.03.2019
04	Clearance detail	09.03.2019
05	Under purlin detail	09.03.2019
06	End purlin detail	10.03.2019
07	End purlin detail	10.03.2019
08	End purlin detail	10.03.2019
09	End purlin detail	10.03.2019
10	End purlin detail	10.03.2019

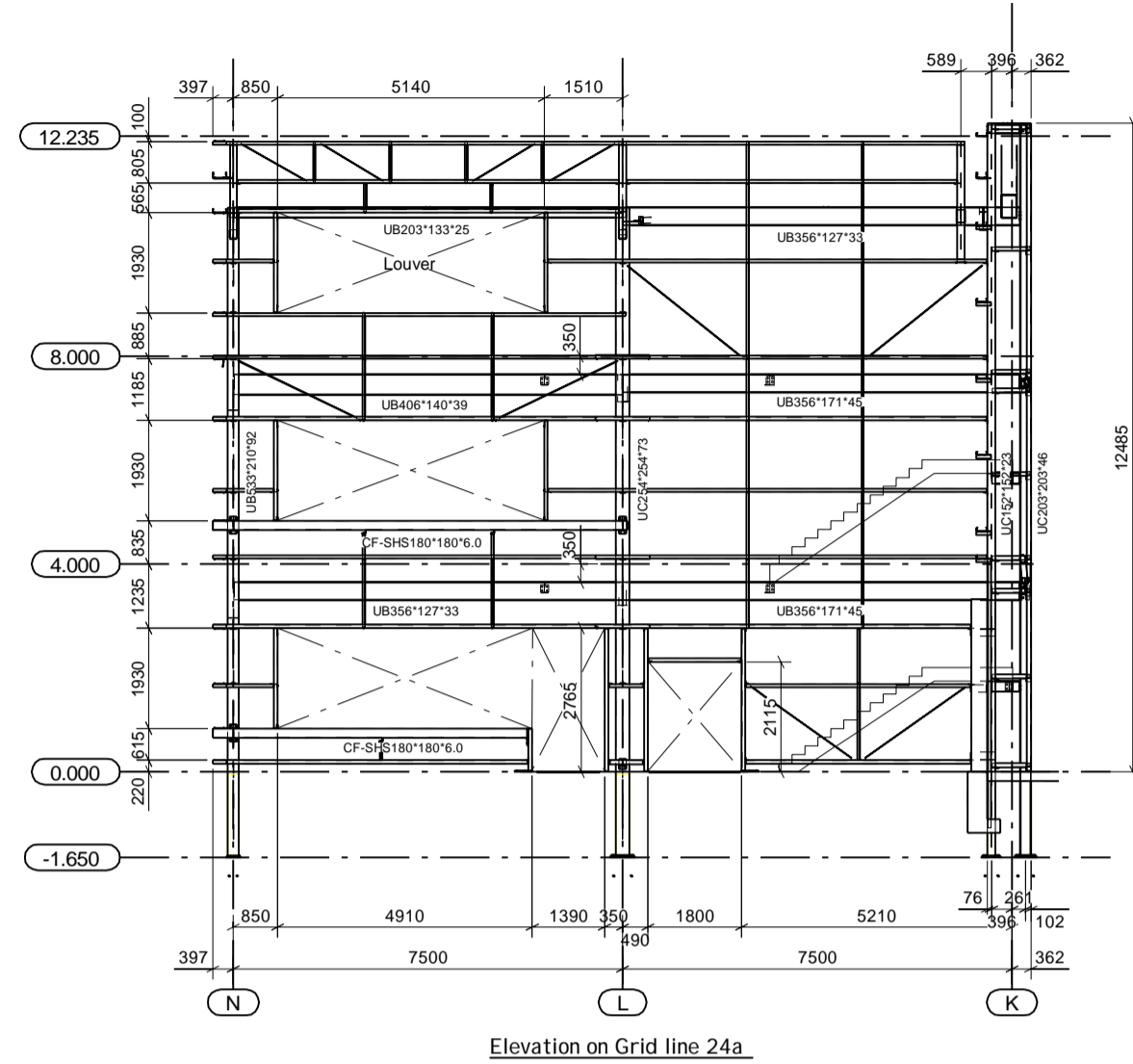
STATUS : AS BUILT ISSUE
caution
Engineering & Construction
Caution Engineering Limited
Newport Road, Newport, South Wales, NP23 5JG
Tel: 01792 511111 Fax: 01792 511111
www.caution.co.uk

WV&C Construction Ltd
100, Gwynedd Road, Newport, NP23 5JG
Tel: 01792 511111 Fax: 01792 511111
www.wvc.co.uk

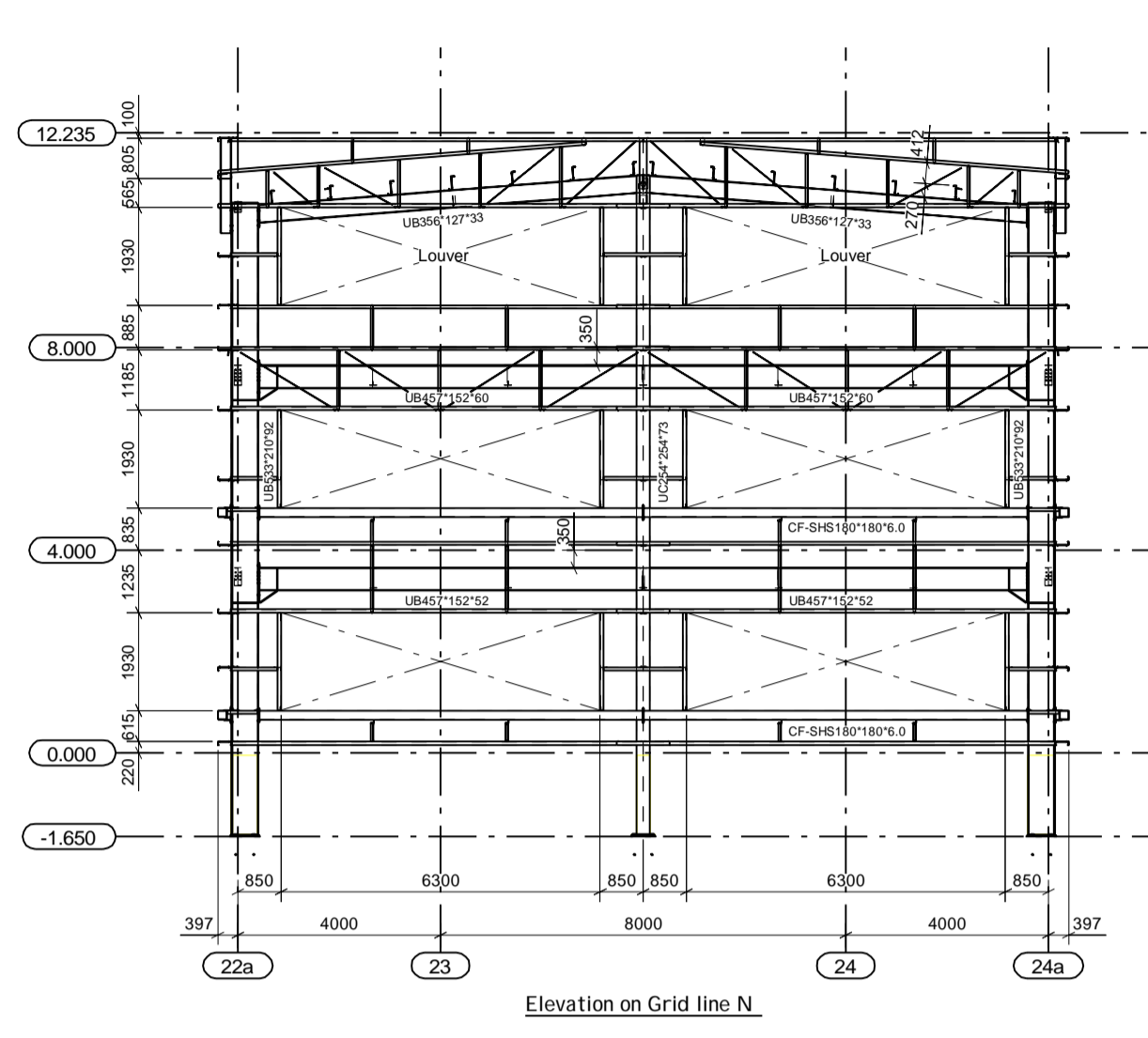
Project Name: P22036-CEL-W1-ZZ-DR-X-0020
Design & Build
30.07.2020
P22036-CEL-W1-ZZ-DR-X-0020 B01

General Notes
1. Do not scale from this drawing.
2. Dimensions are in millimetres unless noted otherwise.
3. All levels are in metres unless noted otherwise.
4. Except where indicated, steelwork shall be caisson steel.
5. All other materials shown in this drawing are to be as specified in the current NBS National Structural Steelwork Specification.
6. All other materials of this drawing (e.g. DWG/ALU/CL) are uncontrolled and are used at your own risk.

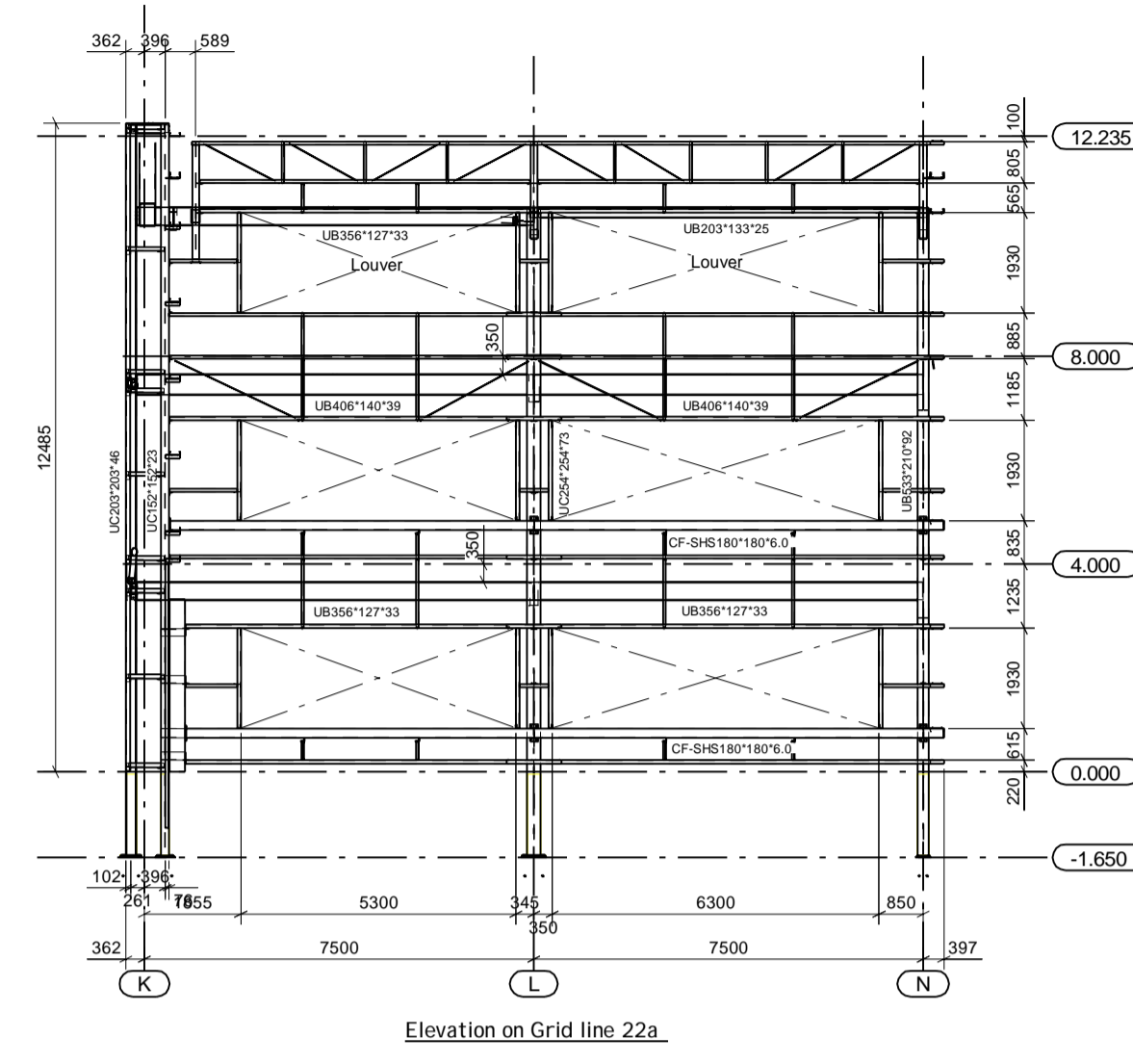
Project Notes
1. Caution Engineering is not the Principal of Lead Designer for this project.
2. The Lead Designer for this project has responsibility for approving this drawing.
3. The steel frame shown on this drawing has been designed in accordance with the information specified in the current NBS National Structural Steelwork Specification.
4. Any queries relating to information on this drawing are to be referred to the first instance to the Lead Designer.
5. This drawing is to be read in conjunction with all drawings produced by the Lead Designer, all drawings produced by other specialist trade contractors engaged on this project.
6. It should not be assumed that the steel frame shown on this drawing has been coordinated with other specialist trade contractors regarding construction methods. Any queries should be issued with the Lead Designer.
7. The responsibility of all specialist trade contractors that depend upon the steel frame for support to ensure they understand the tolerances defined in the current NBS. Other specialist trade contractors must make provision in the design and construction of their works, including checking dimensions and positions on site if necessary, to deal with any potential conflict of tolerances which may arise.



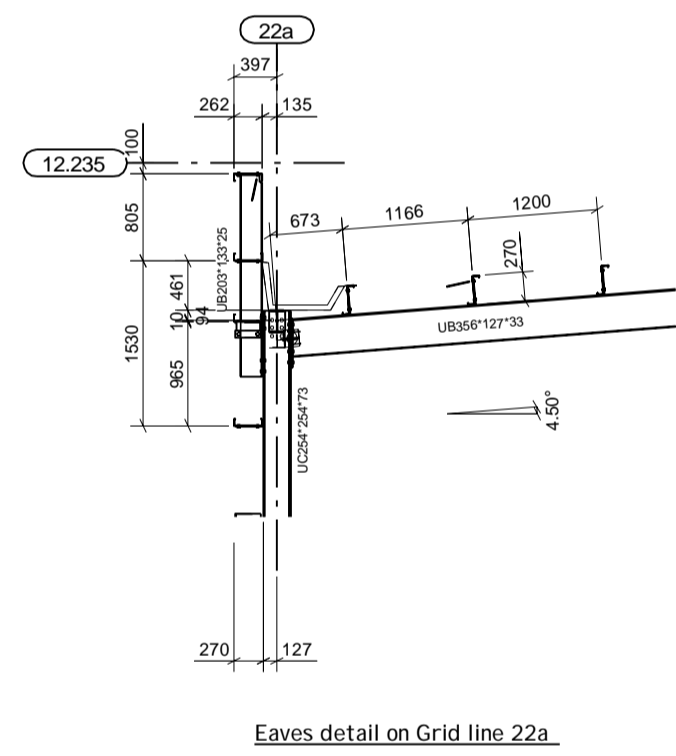
Elevation on Grid line 24a



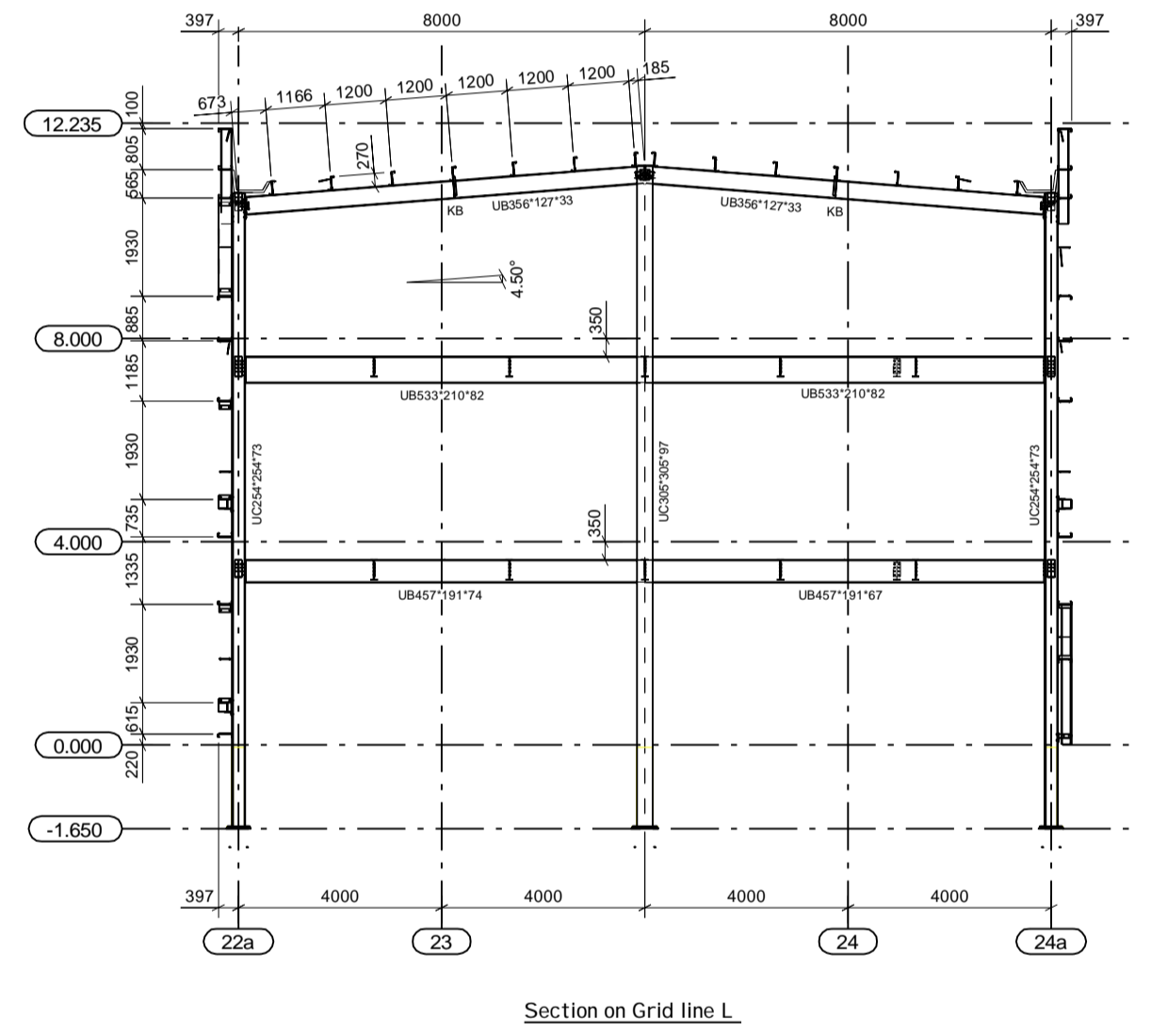
Elevation on Grid line N



Elevation on Grid line 22a



Eaves detail on Grid line 22a

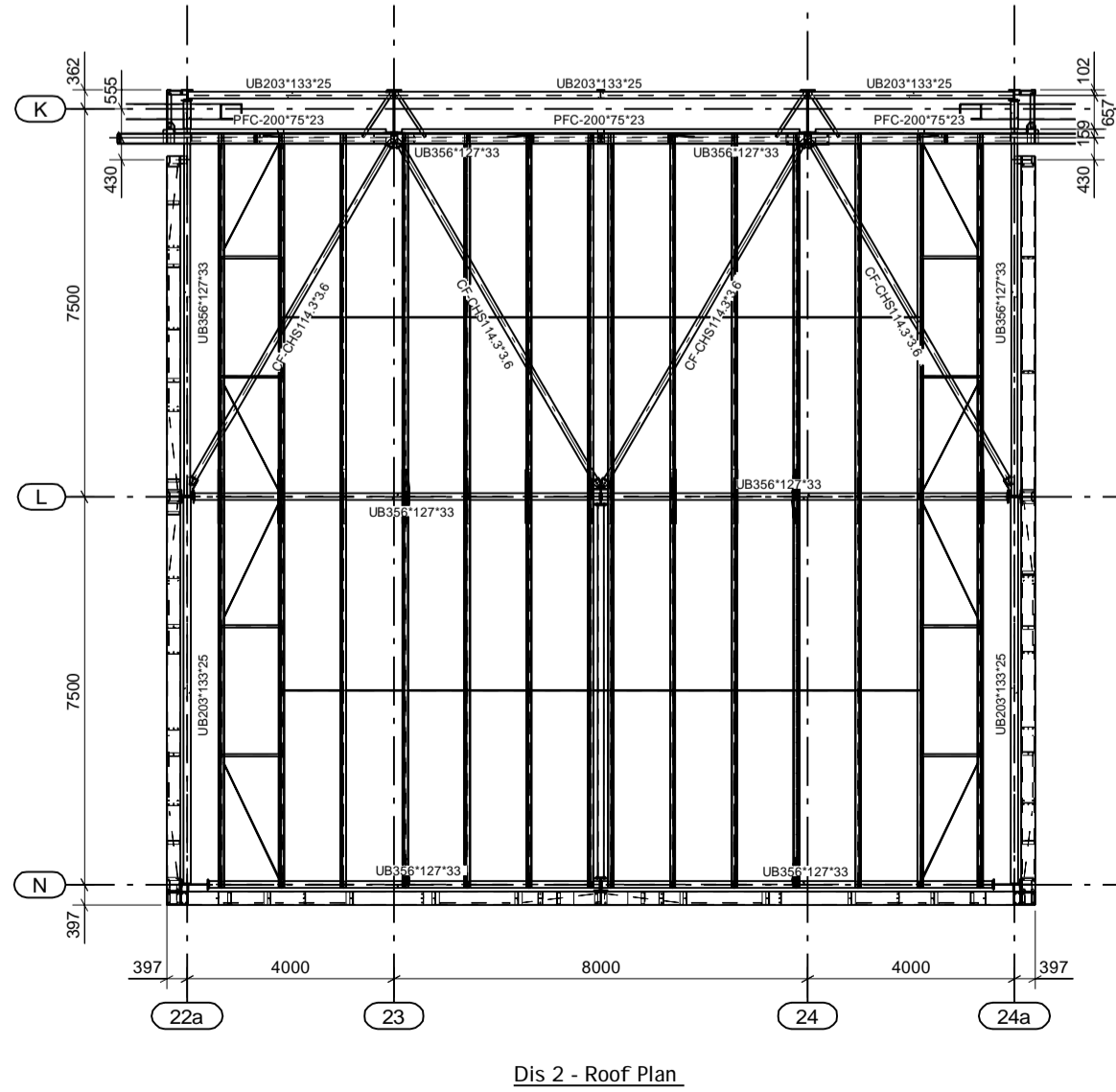


Section on Grid line L

Rail SPEC

Metsac built system
CUS Rail 260C1.6
DTW = Diagonal tie wire
SRS = Side rail support
TS = Tubular Strut

Clearer angle 100x100x1.6 supplied by Caution fitted by others



Dis 2 - Roof Plan

PURLIN SPEC

Metsac sleeved system
CUS Purlin 252Z18
PT = Purlin tie
DPB = Diagonal purlin brace
EB = Eaves brace
SRS = Side rail support
AS = Apex Strut
UPEB = Under purlin eaves brace

Clearer angle 100x100x1.6 supplied by Caution fitted by others

01	In situ concrete	0.000
02	Concrete slab	0.000
03	Concrete beam	0.000
04	Concrete column	0.000
05	Concrete wall	0.000
06	Concrete floor	0.000
07	Concrete ceiling	0.000
08	Concrete stairs	0.000
09	Concrete ramp	0.000
10	Concrete base	0.000

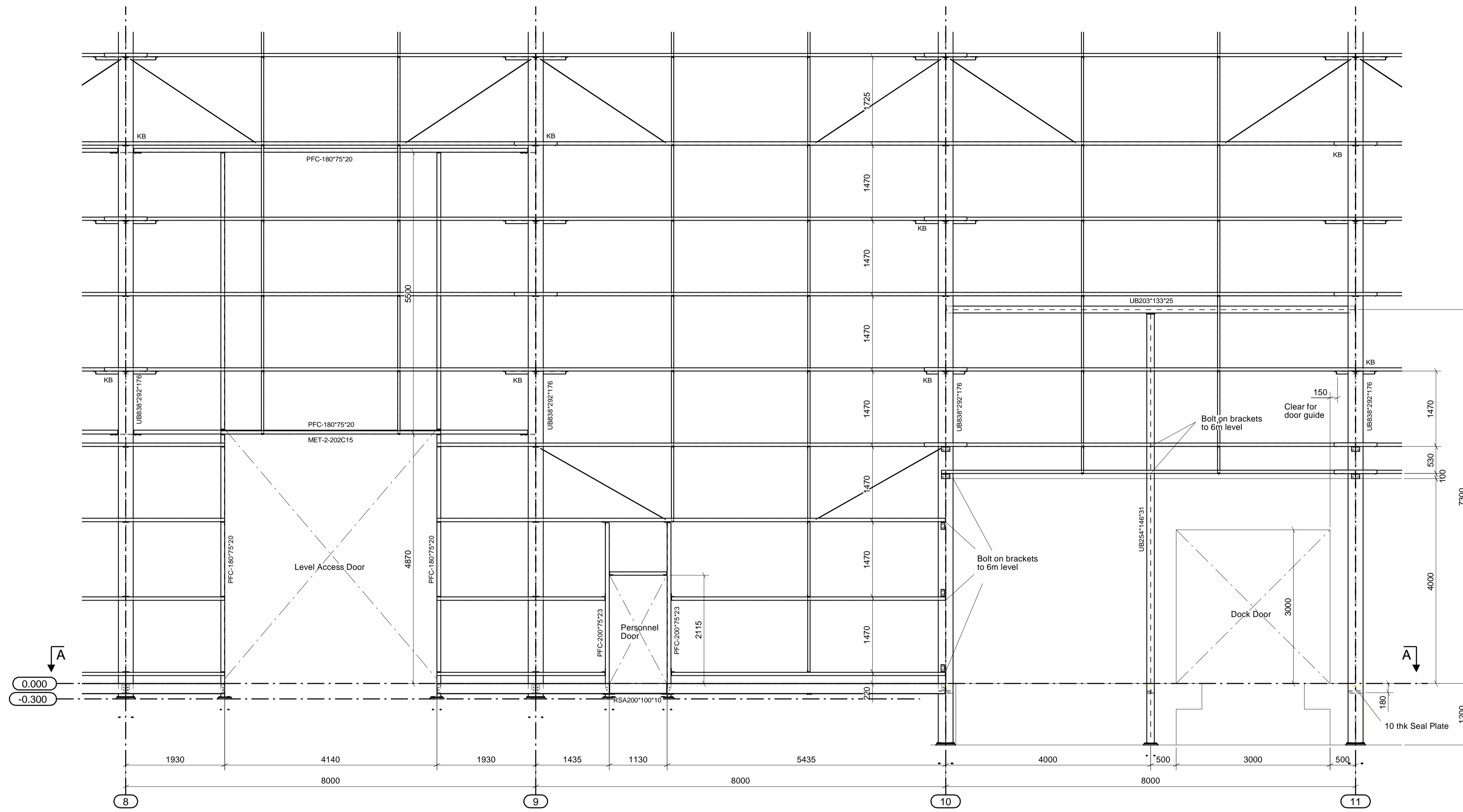
STATUS: AS BUILT ISSUE

General Notes

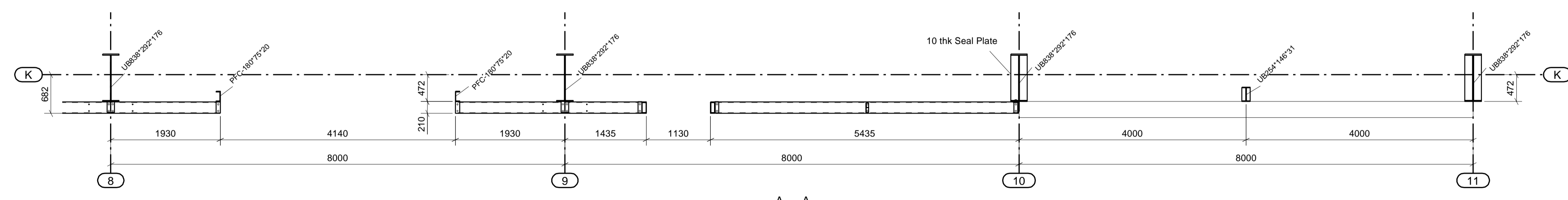
1. Do not scale from this drawing
2. Dimensions are in millimetres unless noted otherwise.
3. All levels are in metres unless noted otherwise
4. Erection marks for orientation denoted
5. Only PDF issues of this drawing (e.g. DWG/Autocad) are uncontrolled and are used at your own risk.

Project Notes

1. Caution Engineering is not the Principal or Lead Designer for this project.
2. The Lead Designer for this project has responsibility for approving this drawing.
3. The steel frame shown on this drawing has been designed to Eurocode 3.
4. The steel frame shown on this drawing will be erected in accordance with the tolerances specified in the current NSSS (National Structural Steelwork Specification).
5. Any queries relating to information on this drawing are to be referred, in the first instance to the Lead Designer.
6. This drawing is to be read in conjunction with all information produced by the Lead Designer, Architect, Engineer and all other specialist trade contractors employed on this project.
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8. It is the responsibility of all specialist trade contractors that depend upon the steel frame for support to ensure they understand the tolerances defined in the current NSSS. Other specialist trade contractors must make provision in the design and construction of their works, including checking dimensions and positions on site if necessary, to deal with any potential conflict of tolerances which may arise.



Elevation on Grid line K



A - A

REV	REVISION	DATE
001	As Built Issue	17.10.2023
002	Construction Issue	03.03.2023
003	Designing the detail	10.02.2023
004	Production Issue	26.01.2023

STATUS : AS BUILT ISSUE

caution
ENGINEERING

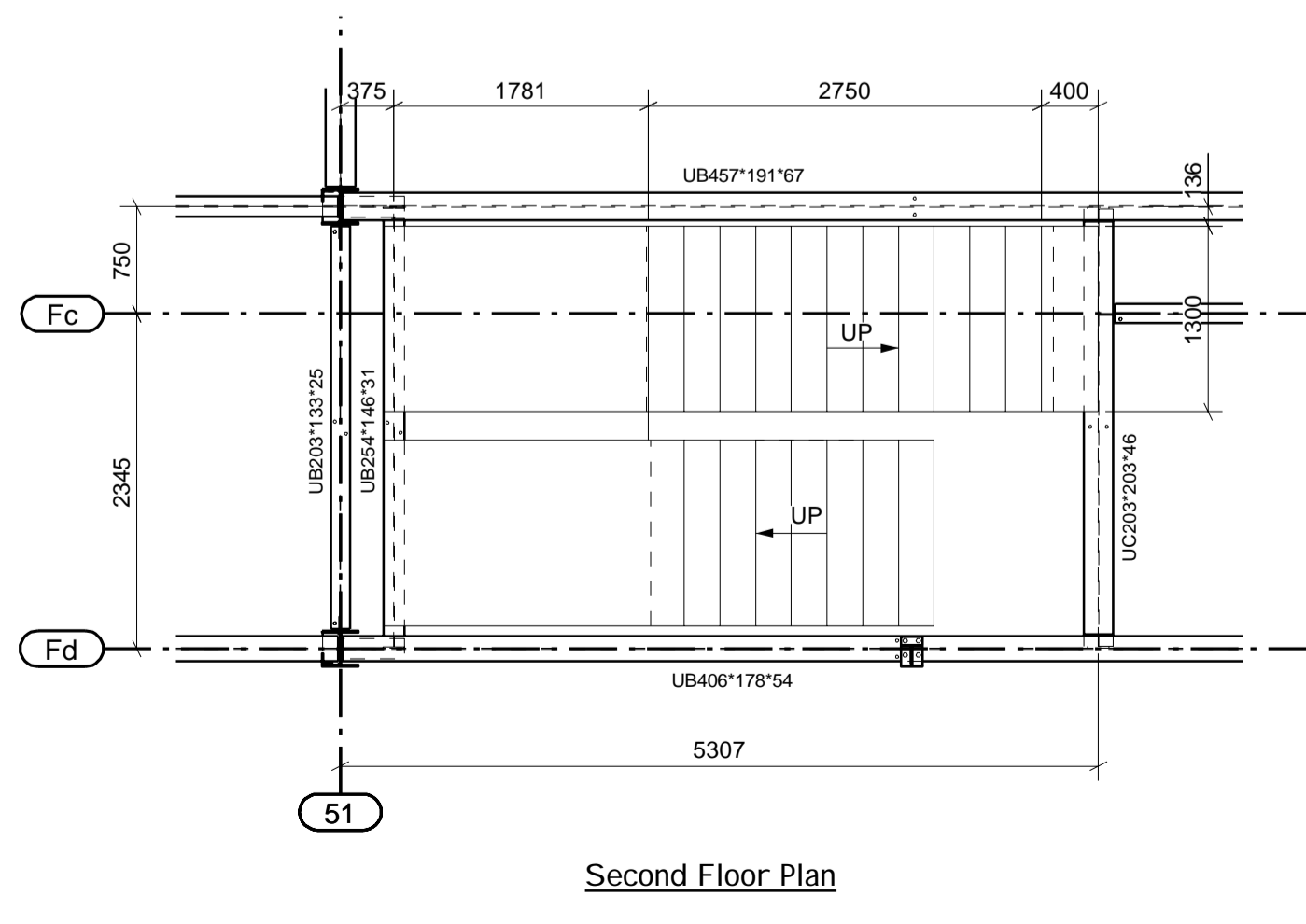
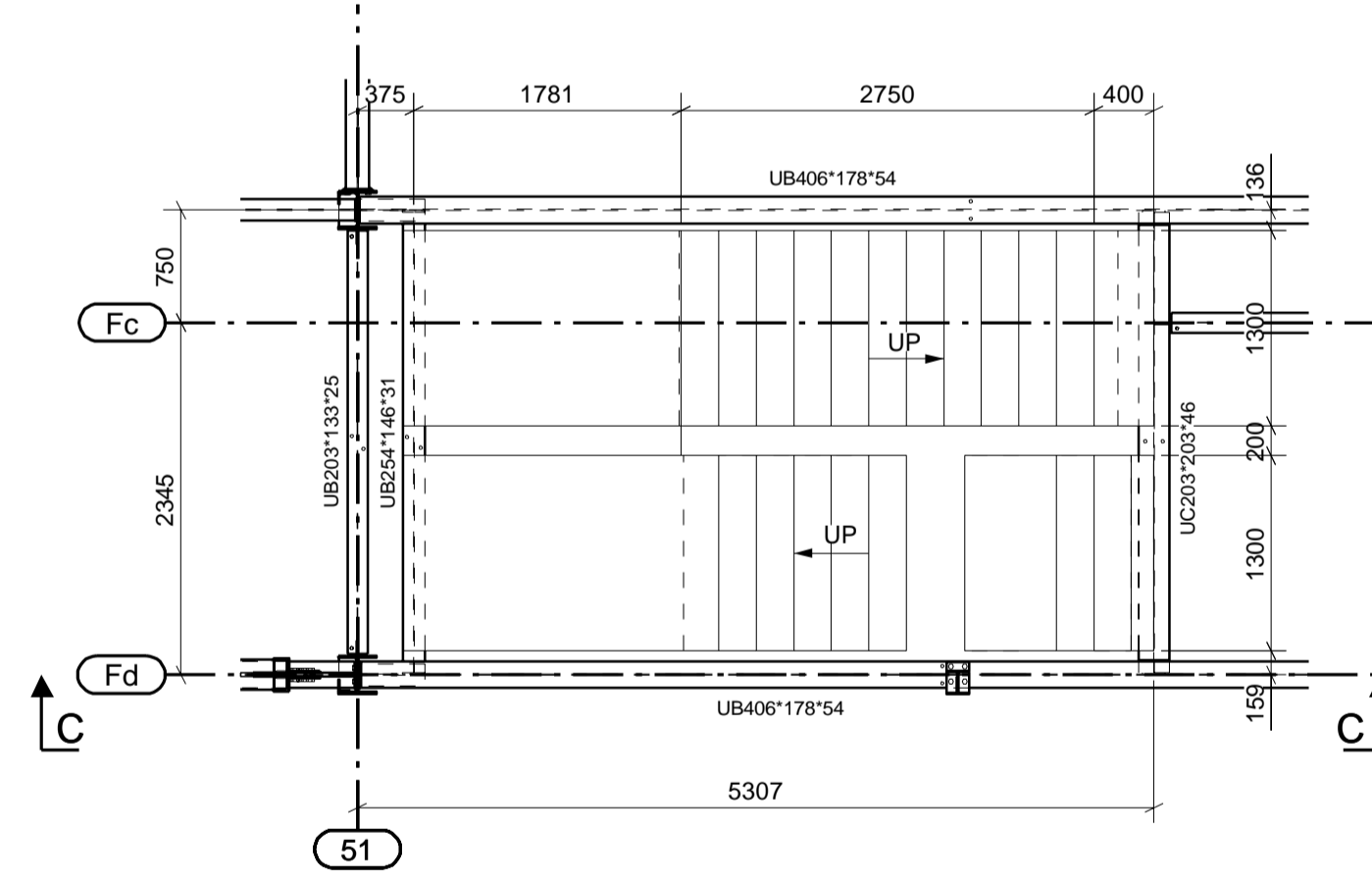
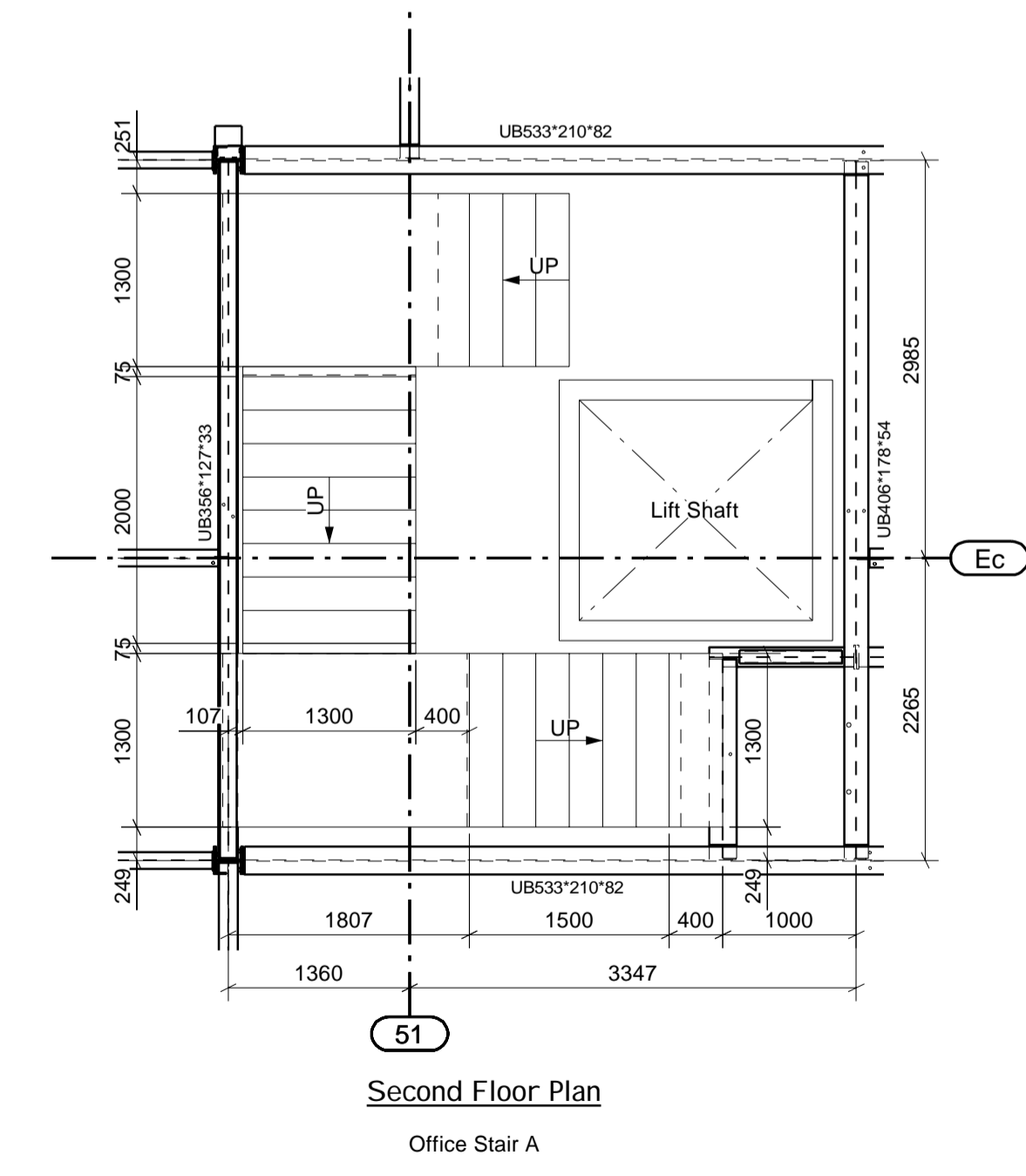
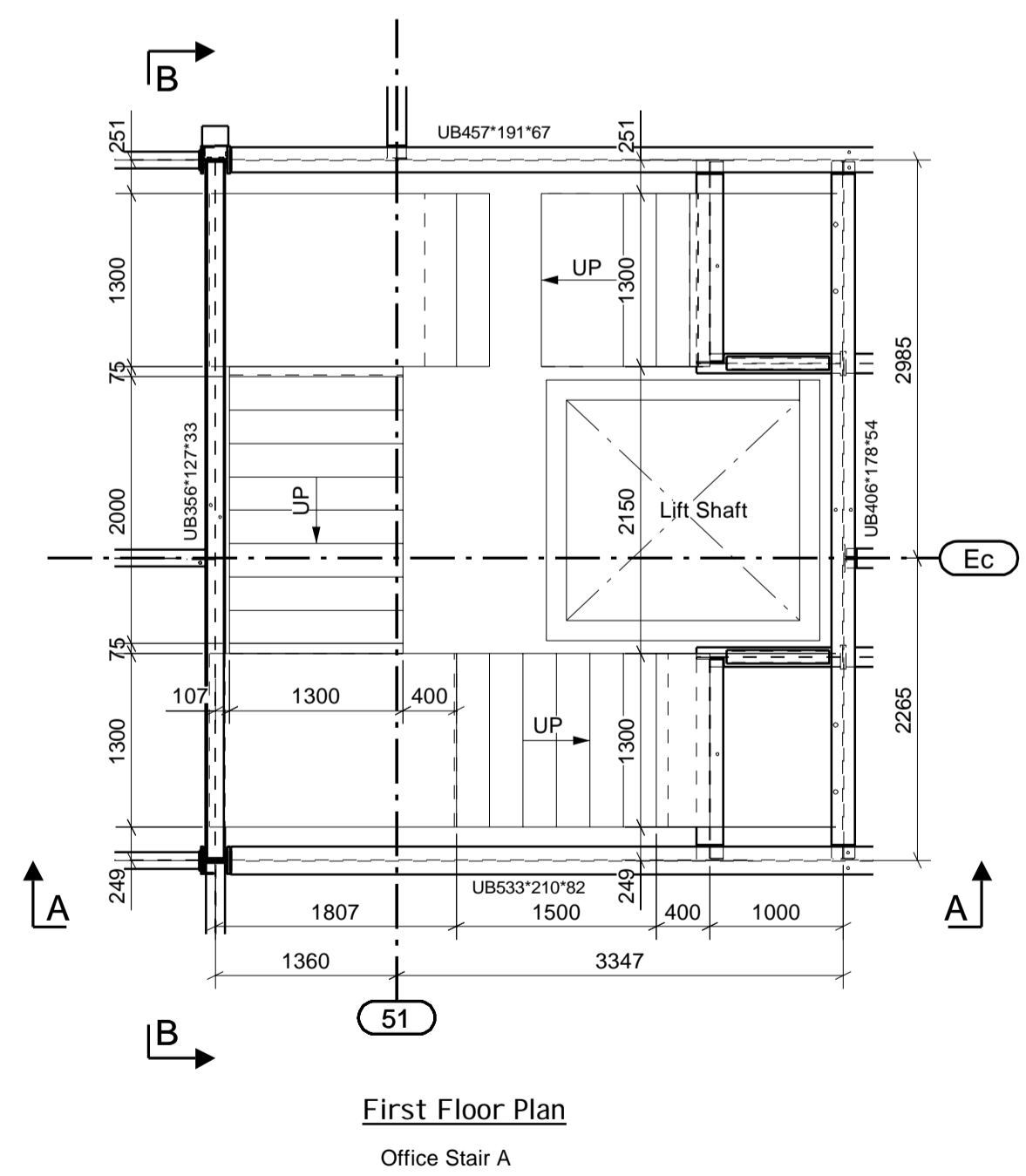
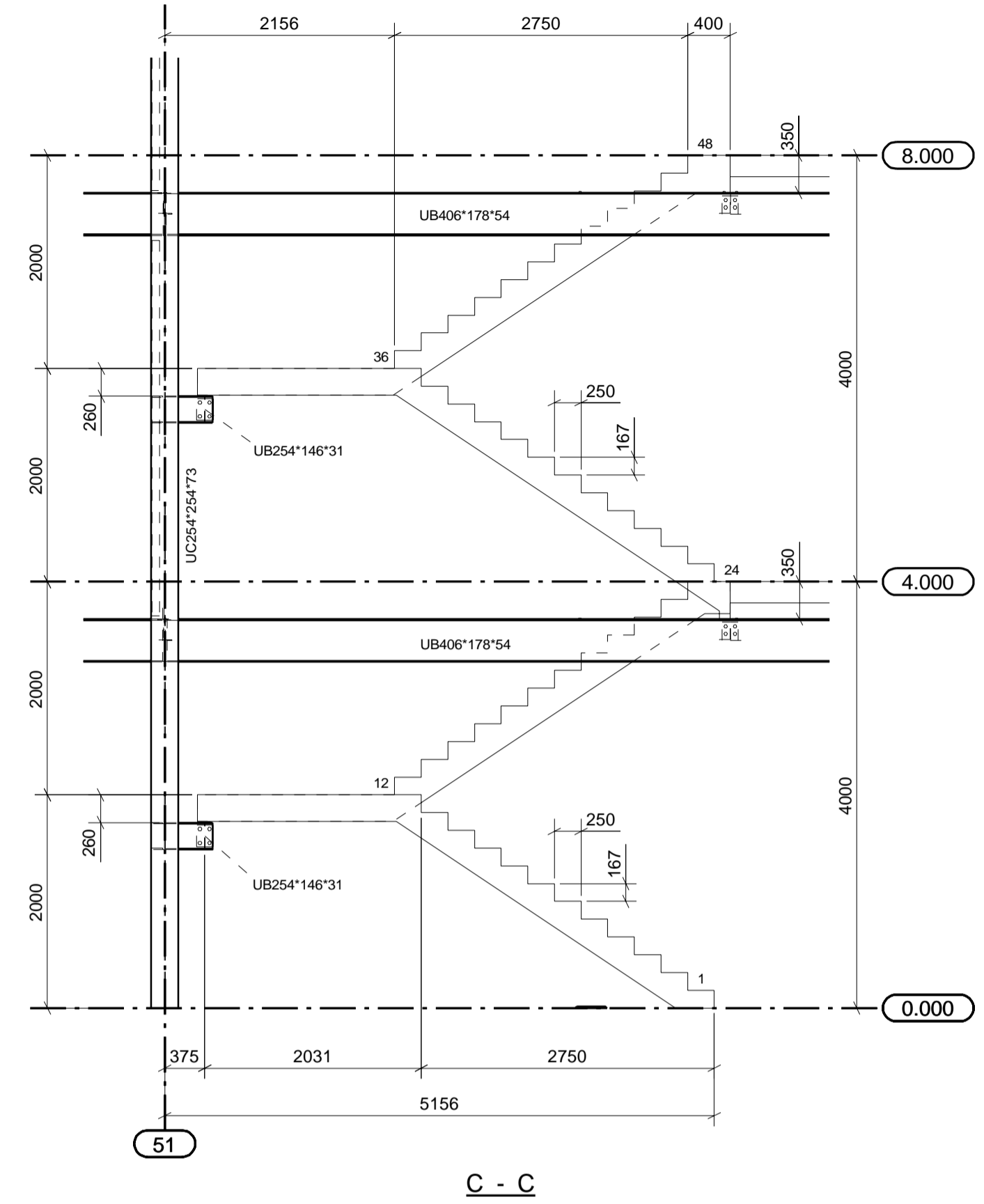
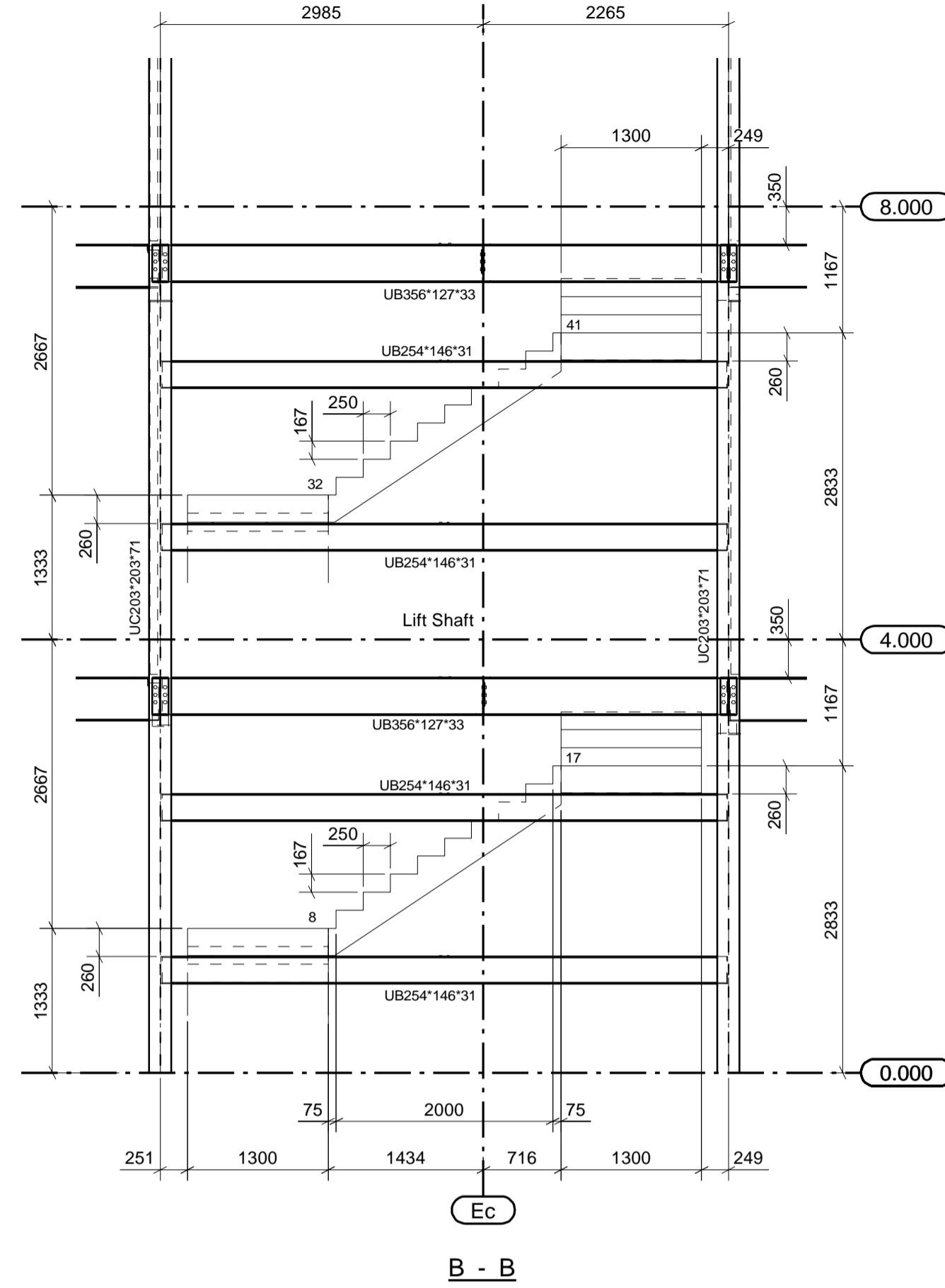
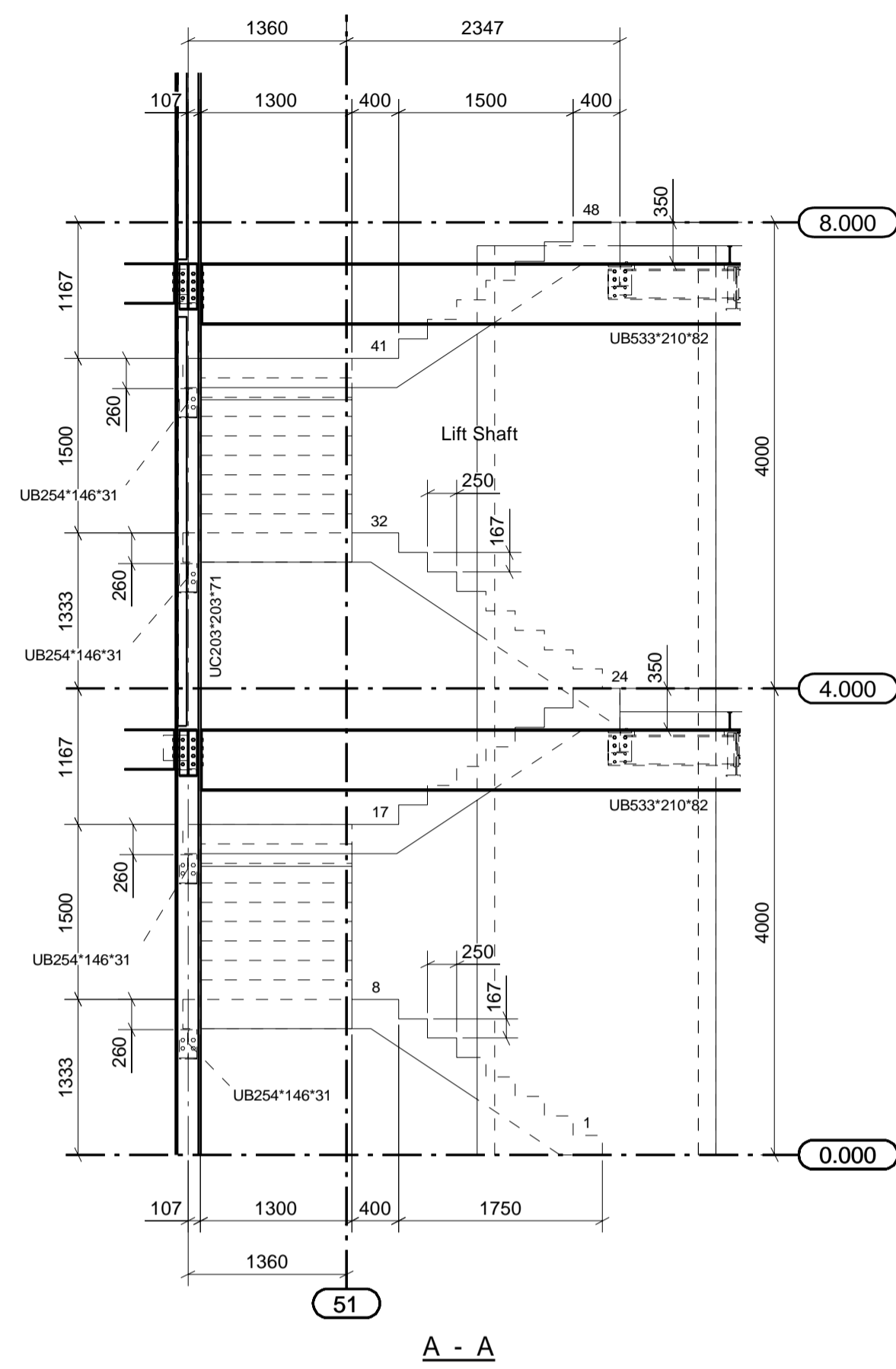
Caution Engineering Limited
Moorgate Industrial Park
London, EC3A 3DF
TEL: 01753 631131 FAX: 01753 630020
www.caution.co.uk
Tech.Sales@caution.co.uk

Client: **Winnic Construction Ltd**
Project: **Plot 4000, Gateway 14**
Site: **Stowmarket, Suffolk**
Drawing Title: **Typical Door Details**

Scale	ECN Job No
1:50	22019
Drawn by: D Butler	Project Type: Design & Build
Checked/Reviewed by:	Date Created: 26.01.2023
Revision:	Date Revised:
P22036-CEL-W1-ZZ-DR-X-0022	B01

- General Notes**
1. Do not scale from this drawing.
 2. Dimensions are in millimetres unless noted otherwise.
 3. All levels are in metres unless noted otherwise.
 4. Erection marks for orientation denoted.
 5. Only PDF issues of this drawing are controlled.
 6. All other formats of this drawing (e.g. DWG/AutoCad) are uncontrolled and are used at your own risk.

- Project Notes**
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 2. The Lead Designer for this project has responsibility for approving this drawing.
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 5. Any queries relating to information on this drawing are to be referred, in the first instance to the Lead Designer.
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REV	DESCRIPTION	DATE
001	As-Built Issue	17.10.2023
002	Construction Issue	03.03.2023
003	Pre-Installation Issue	08.02.2023
004	Revision of Scope/Program	REV DATE

STATUS : AS BUILT ISSUE



Client: Wymec Construction Ltd	Project: Gateway 14
Plot: 4000, Gateway 14	Location: Stowmarket, Suffolk
Drawing Title: Office Stairs	Revision: B01

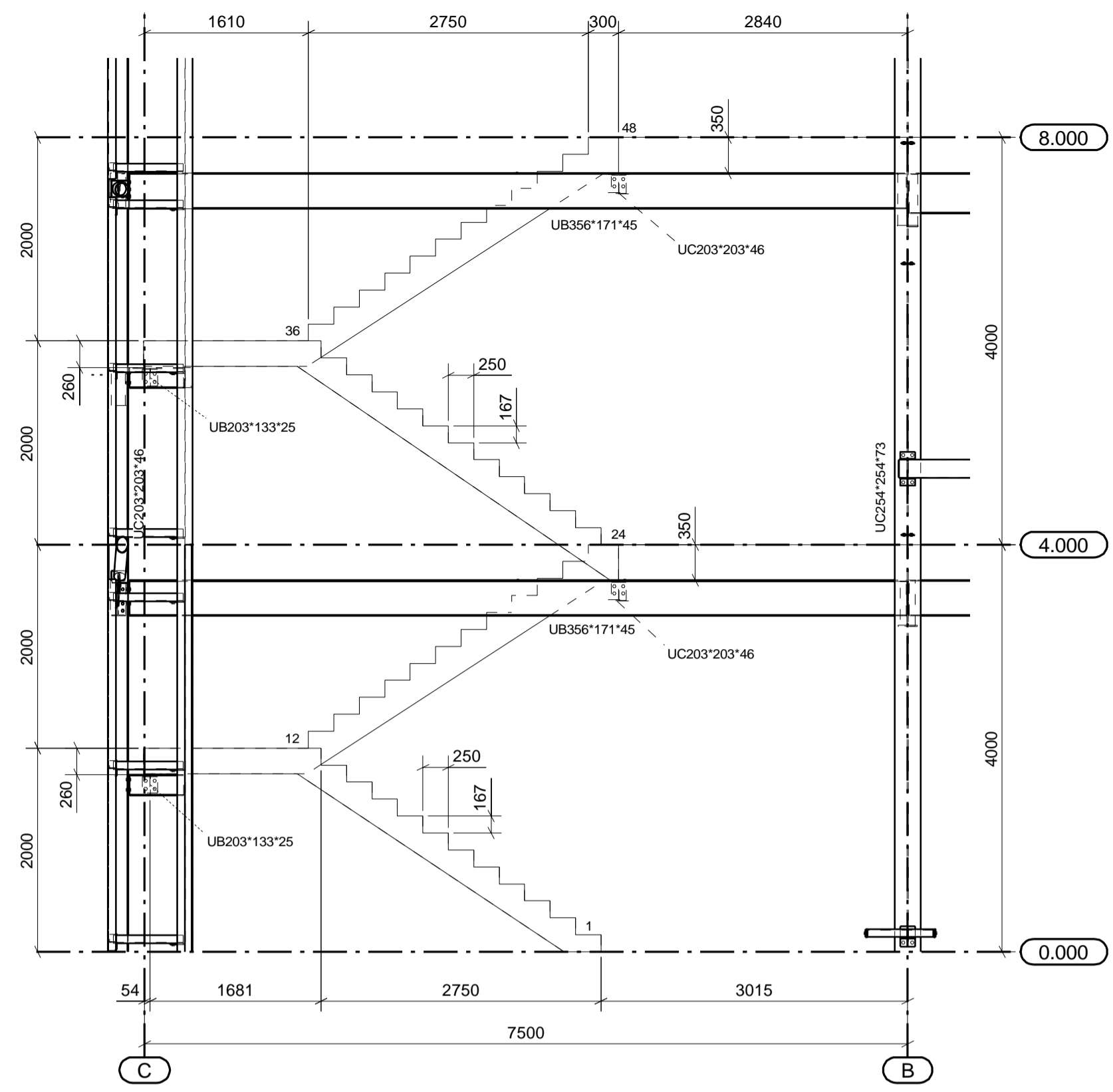
Scale	ECN Job No
1:50	22019
Drawn by: D Butler	Project Type: Design & Build
Checked/Reviewed by:	Date Created: 02.02.2023
Project: P22036-CEL-W1-ZZ-DR-X-0023	Revision: B01

General Notes

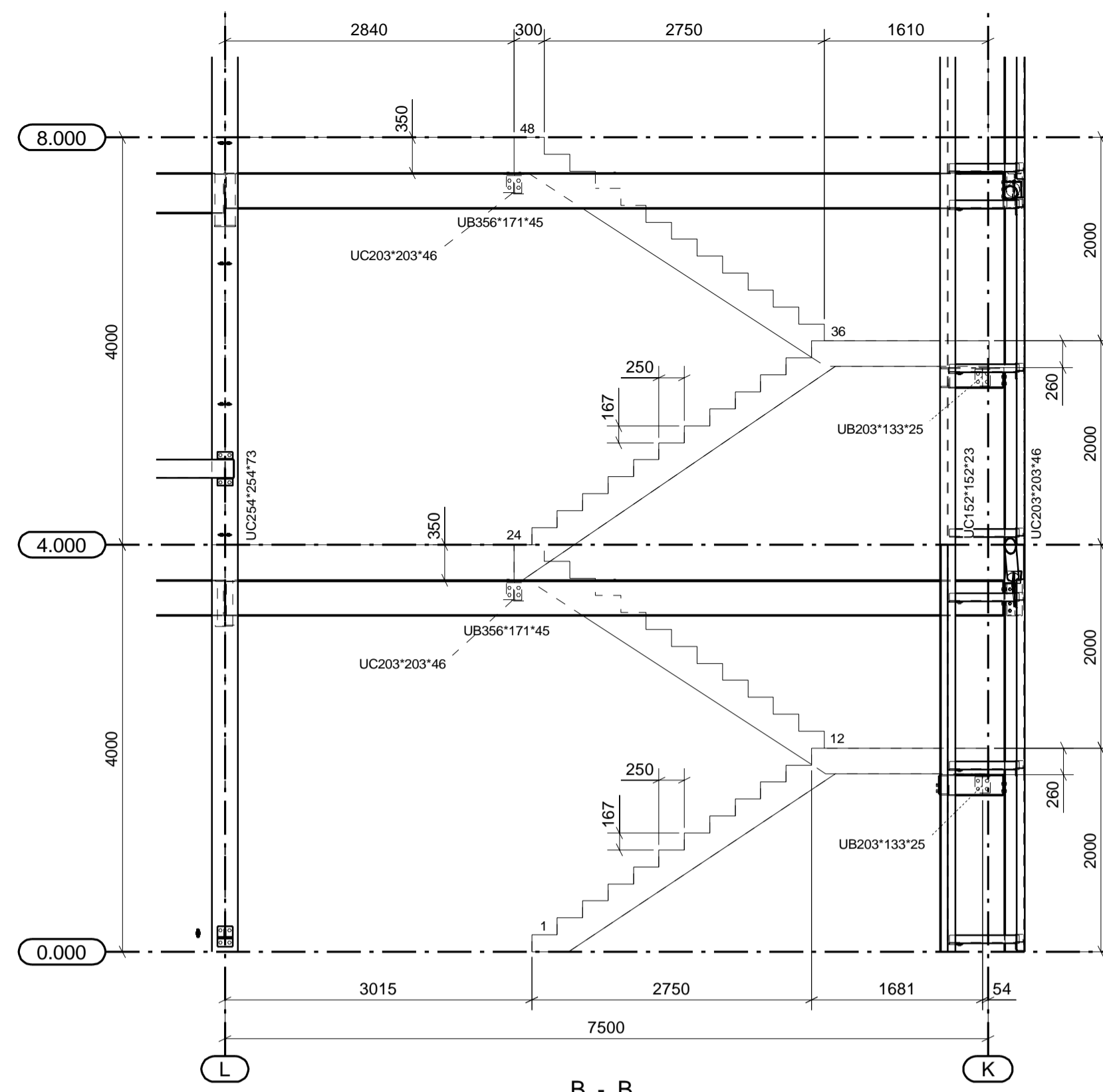
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3. All levels are in metres unless noted otherwise
4. Erection marks for orientation denoted
5. Only PDF issues of this drawing (e.g. DWG/AutoCad) are uncontrolled and are used at your own risk.

Project Notes

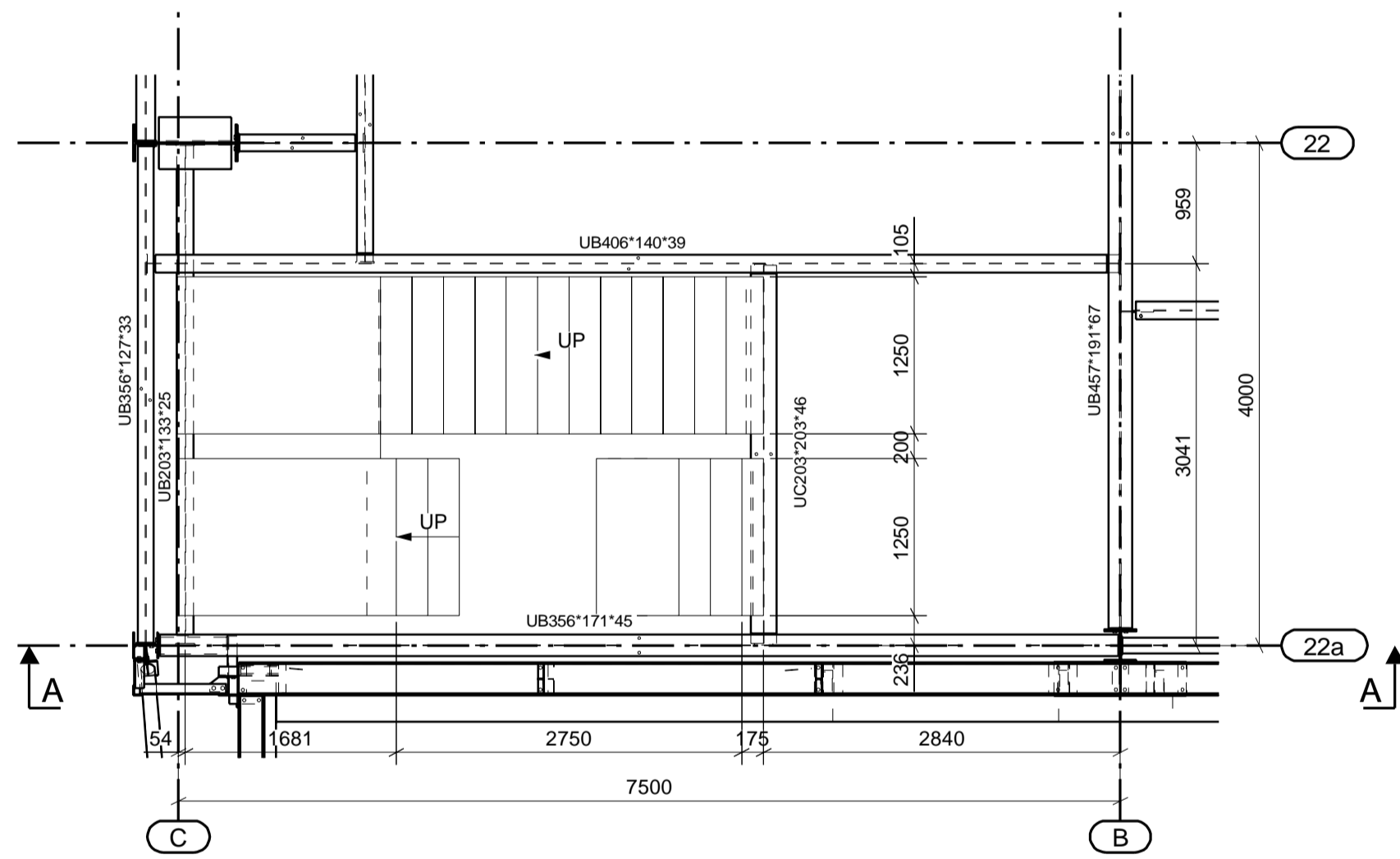
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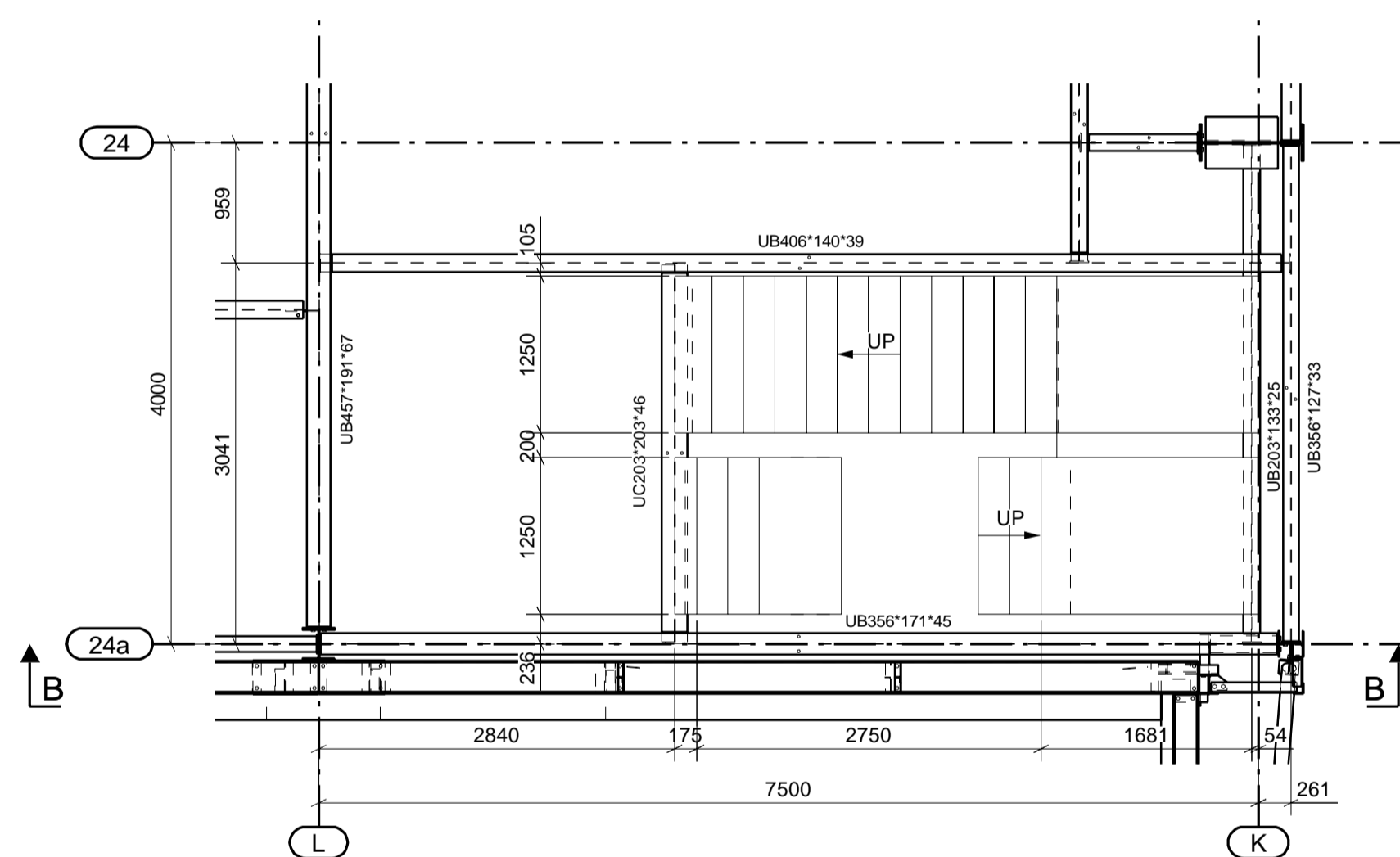
A - A



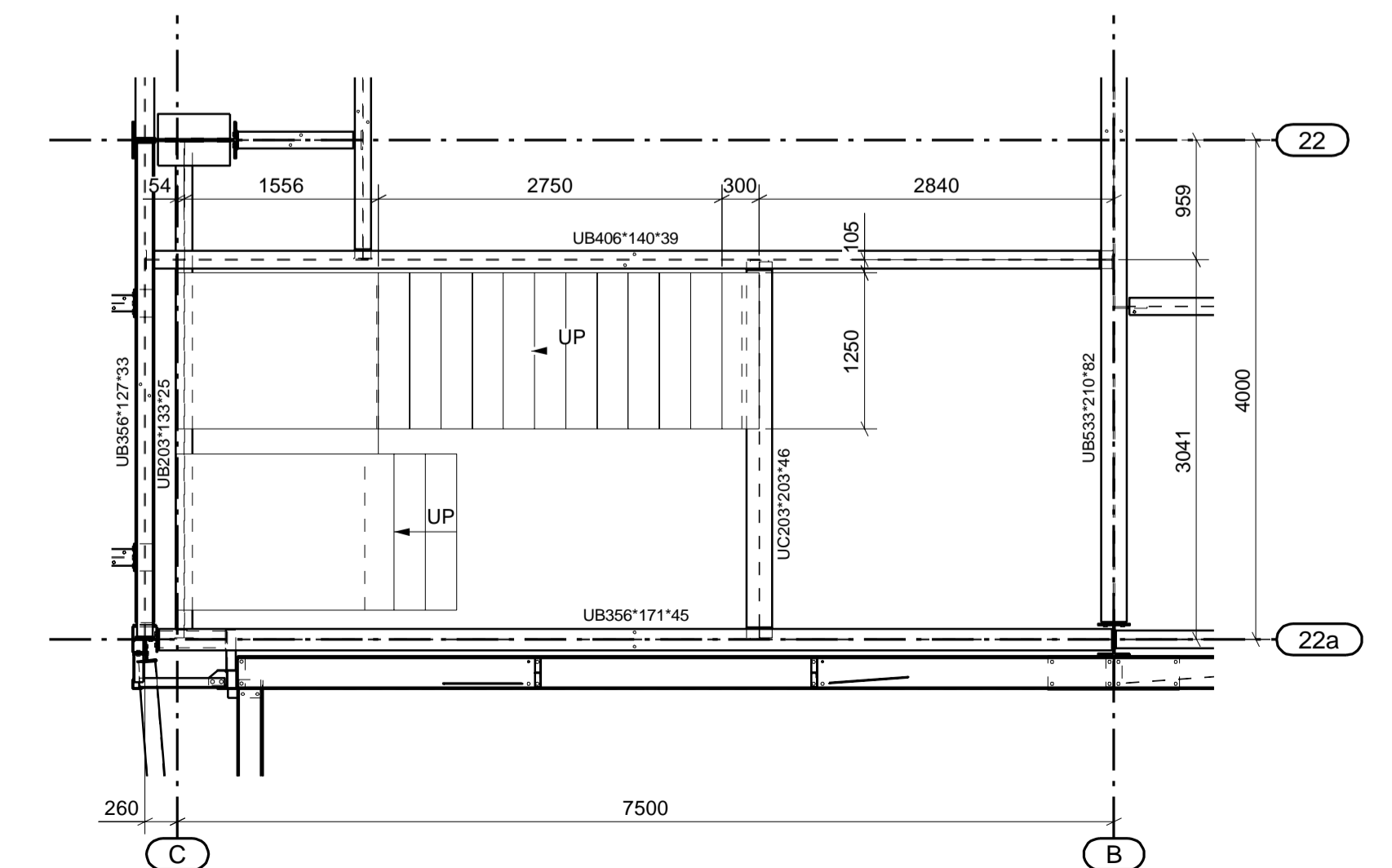
B - B



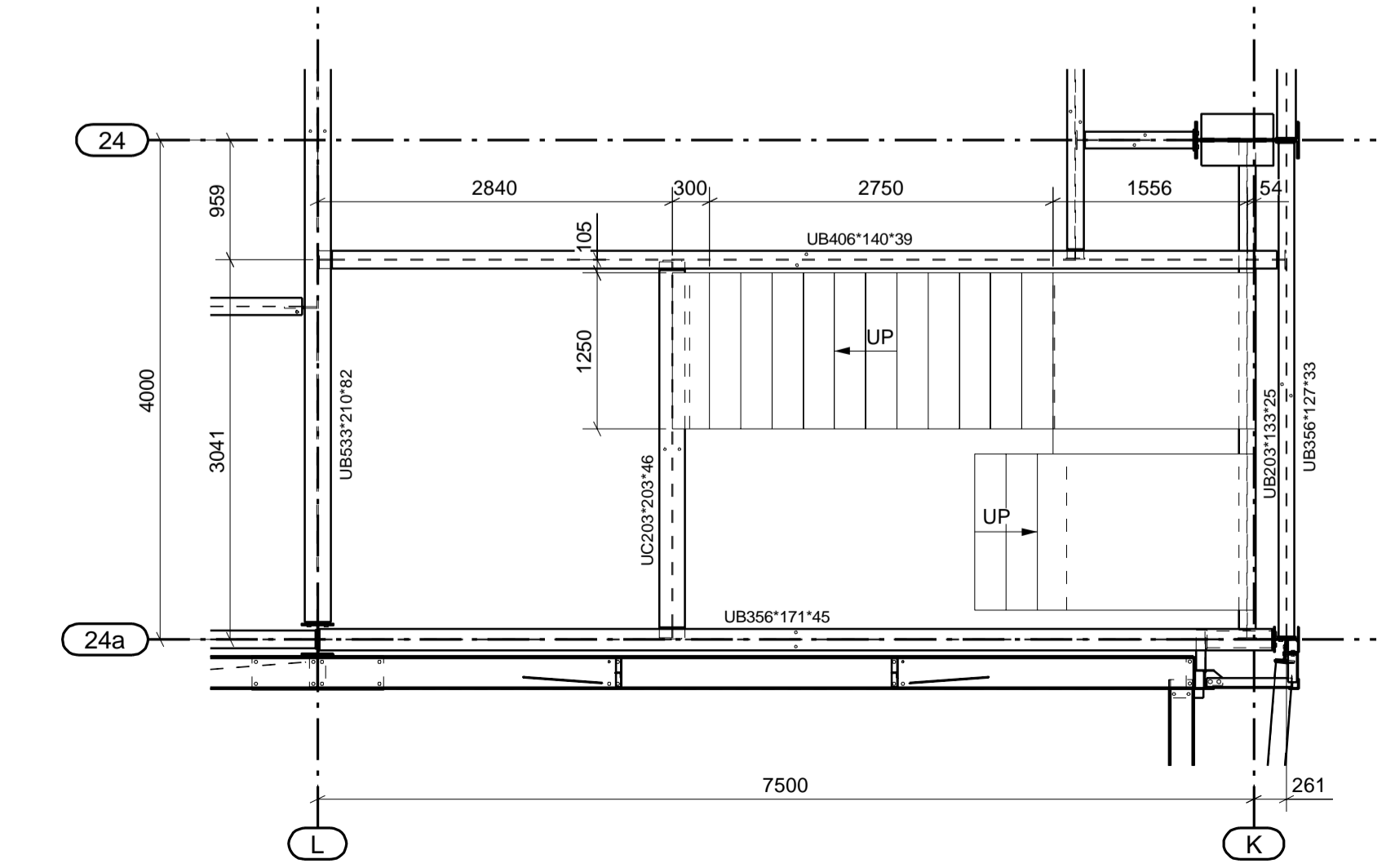
First Floor Plan
Distribution Office 1 Stair



First Floor Plan
Distribution Office 2 Stair



Second Floor Plan
Distribution Office 1 Stair



Second Floor Plan
Distribution Office 2 Stair

REV	As-Built Issue	17.10.2023
001	Construction Issue	03.03.2023
002	Pre-Release Issue	08.02.2023
REV MARK	REVISION OF SCHEMATIC	REV DATE

STATUS : AS BUILT ISSUE

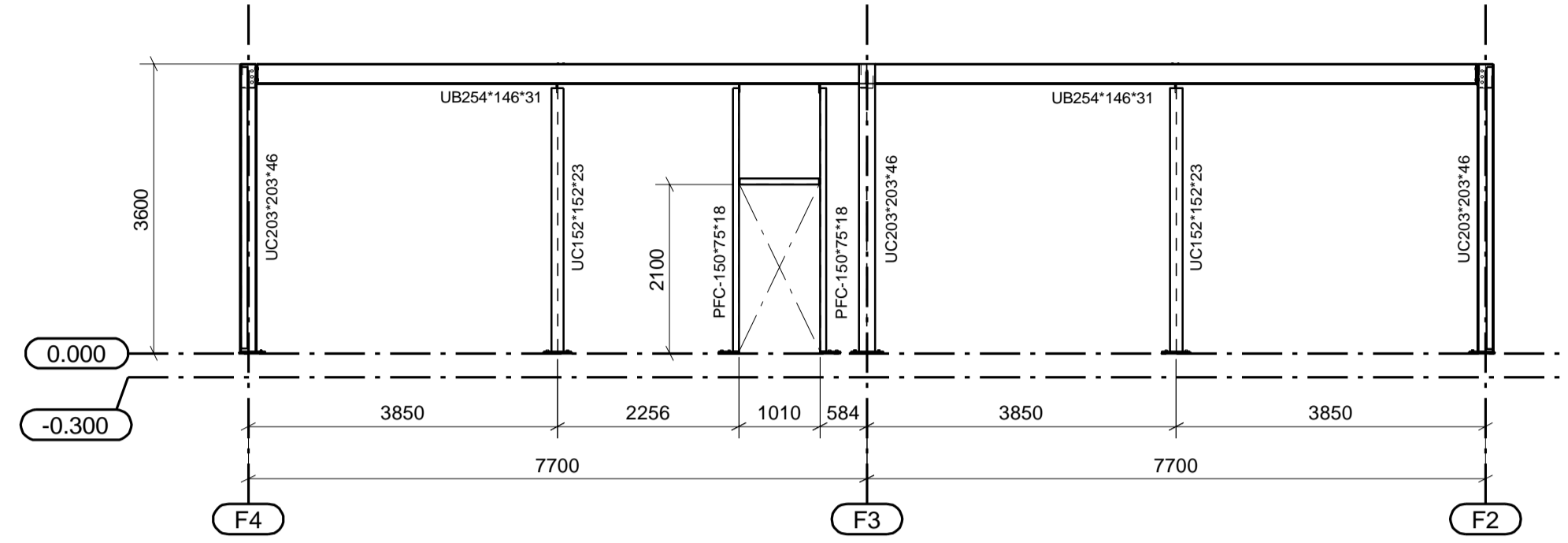


Client	Winnic Construction Ltd
Project Name	Plot 4000, Gateway 14
Site Name	Stowmarket, Suffolk
Drawing Title	Distribution Office Stairs

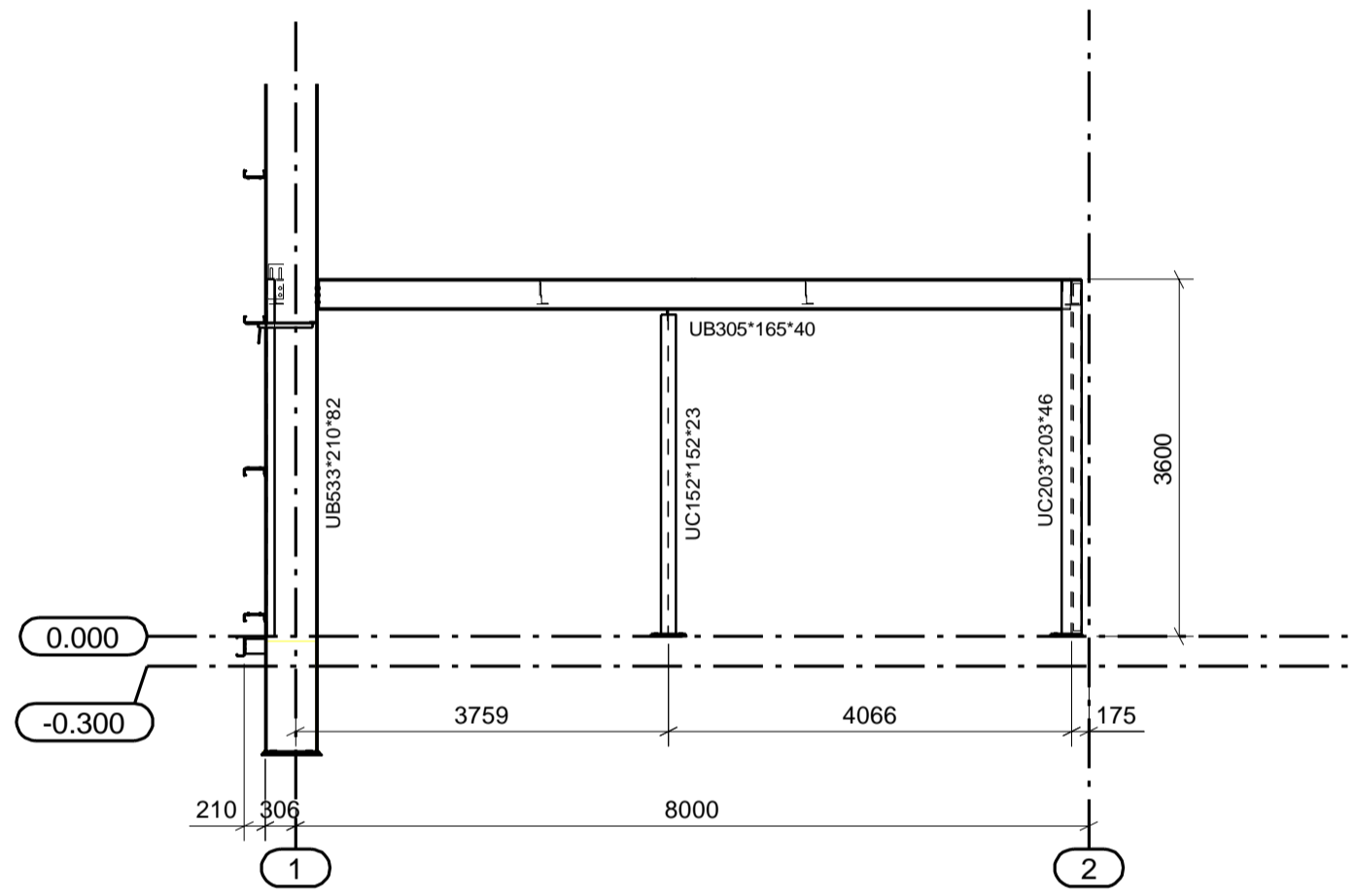
Scale	1:50	ECN Job No	22019
Drawn by	D. Butler	Project Type	Design & Build
Checked/Reviewed by		Date Created	07.02.2023
Revision		Date Reviewed	
Project	P22036-CEL-W1-ZZ-DR-X-0024	Revision	B01

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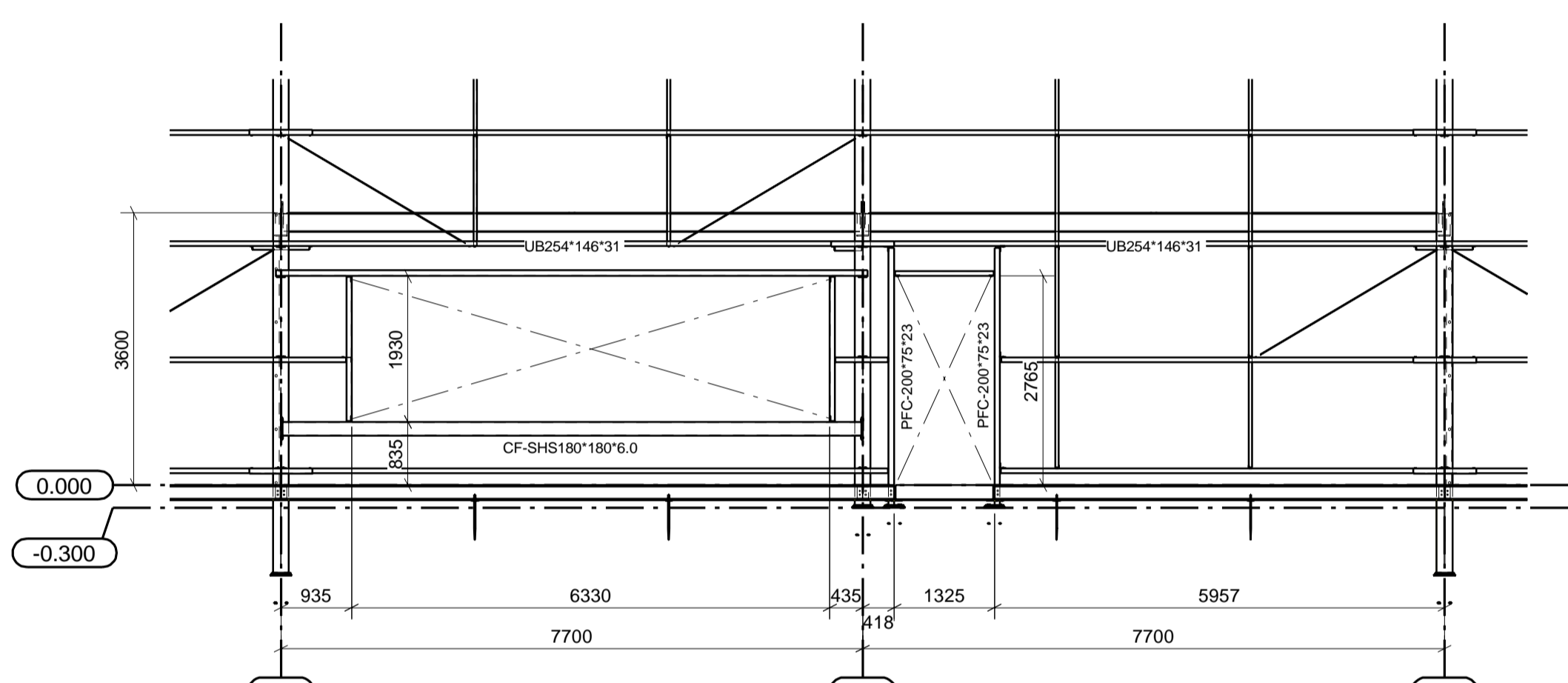
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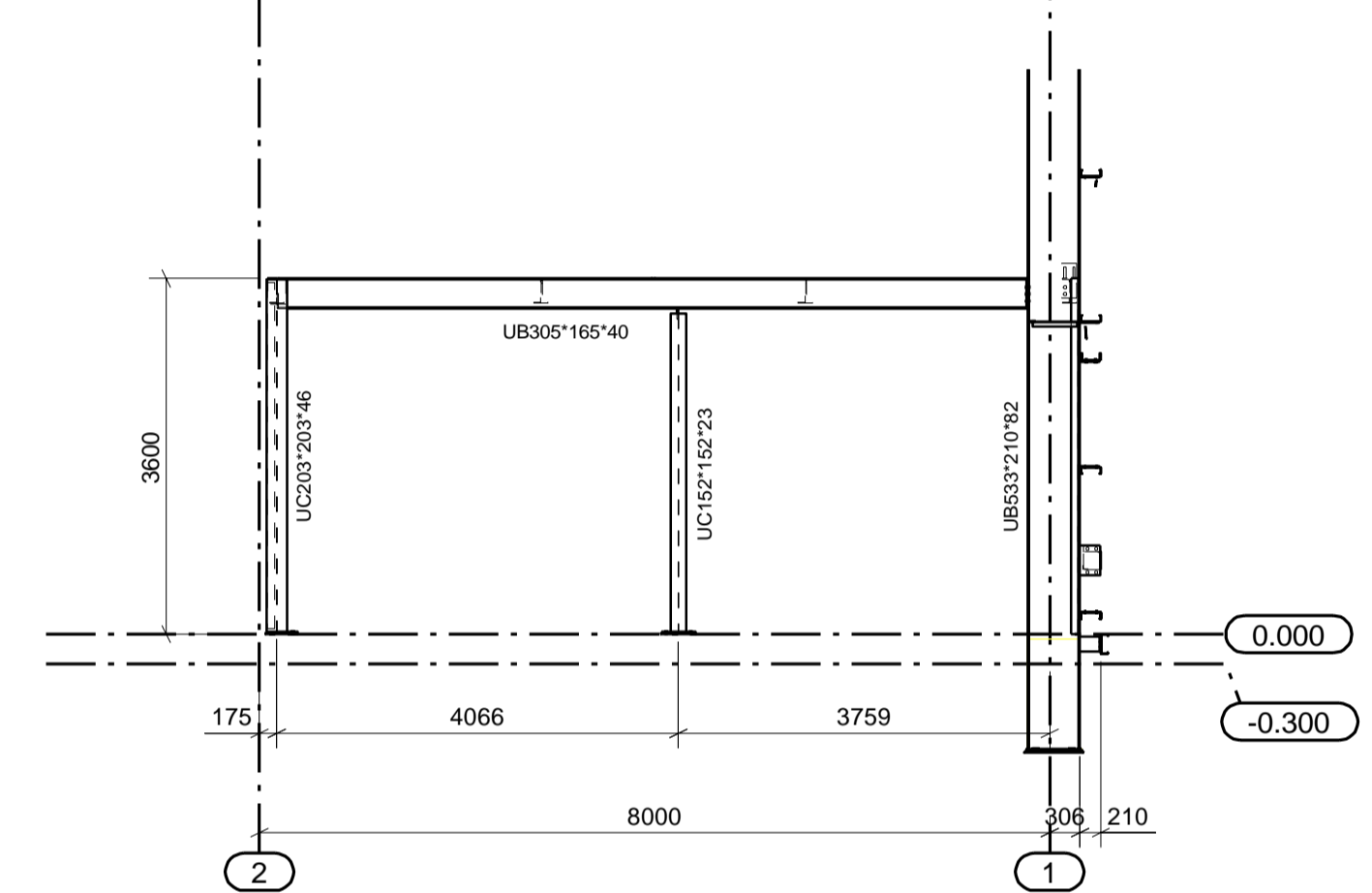
Elevation on Grid line 2



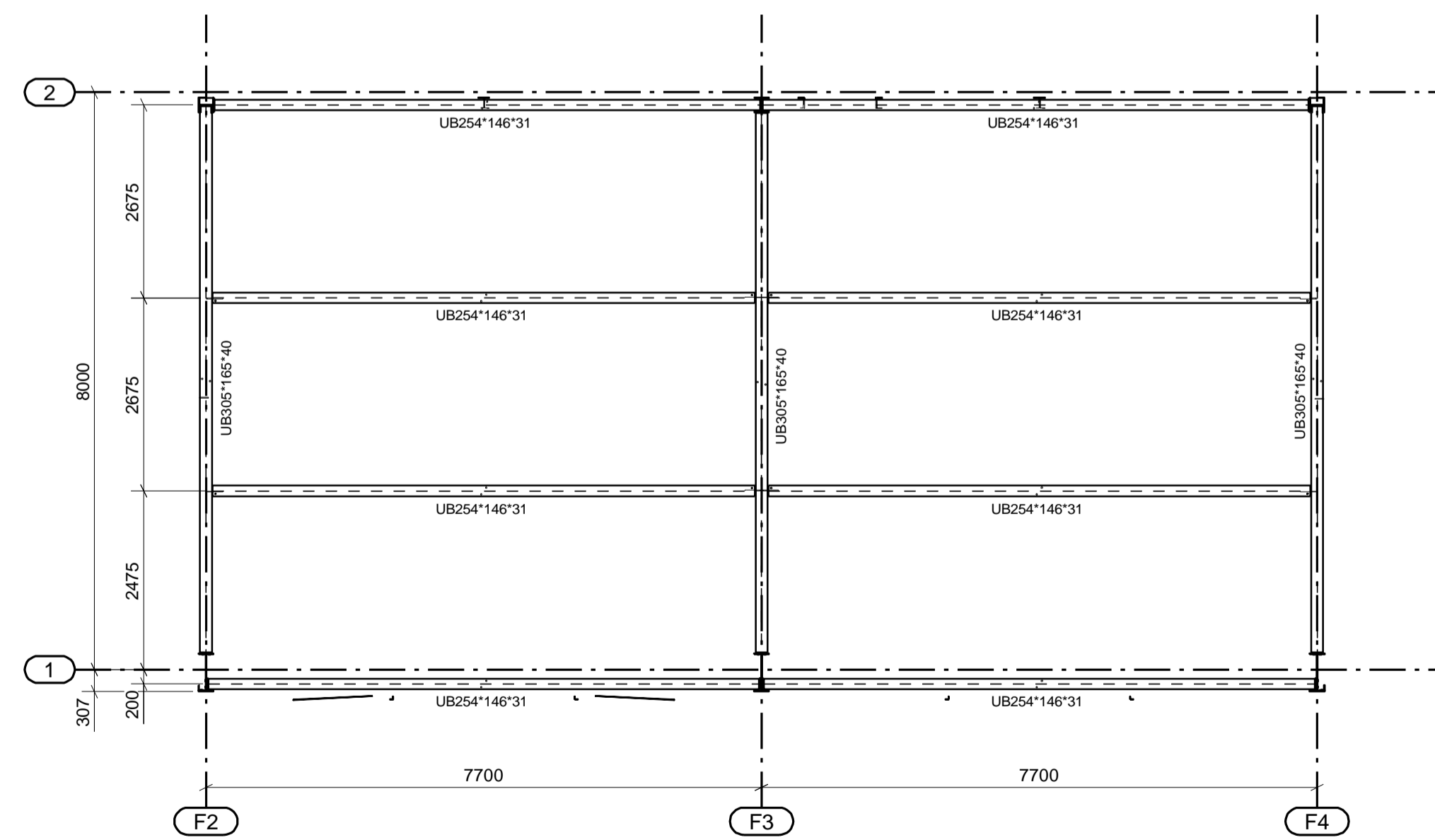
Elevation on Grid line F4



Elevation on Grid line 1



Elevation on Grid line F2



Welfare Roof Plan

REV	As Built Issue	17.10.2023
REV	Height adjusted to substructure	11.07.2023
REV	MAJOR REVISION OF SCHEMATIC	REV DATE

STATUS : AS BUILT ISSUE



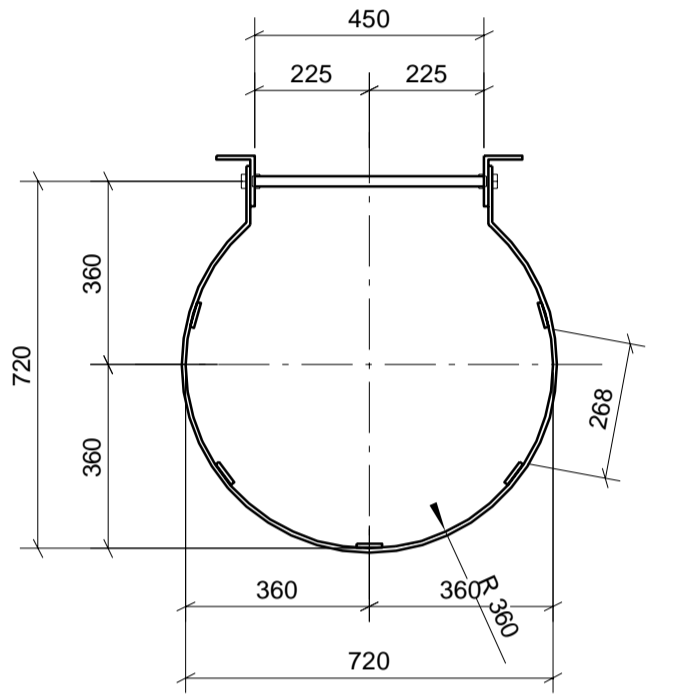
Client: Wincis Construction Ltd
 Project Location: Plot 4000, Gateway 14
 Site Name: Stowmarket, Suffolk
 Drawing Title: Welfare Office

Scale: 1:75	Proj. Title: Design & Build	Proj. No: 22019
Drawn by: D. Butler	Design & Build	Date Created: 28.04.2023
Checked/Reviewed by:		Date Reviewed:
Project: P22036-CEL-W1-ZZ-DR-X-0025	Revision: B01	

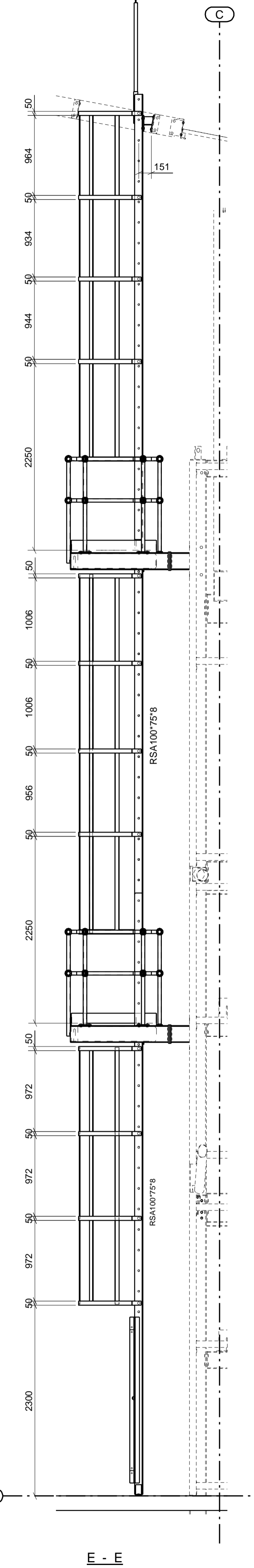
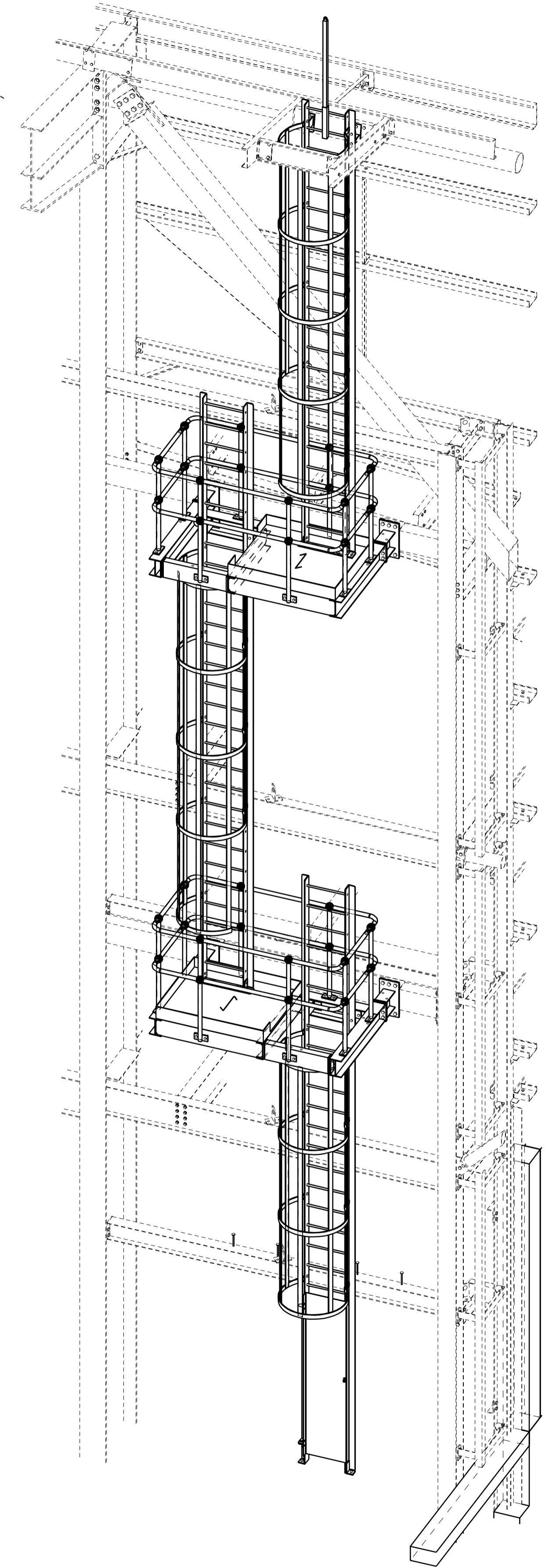
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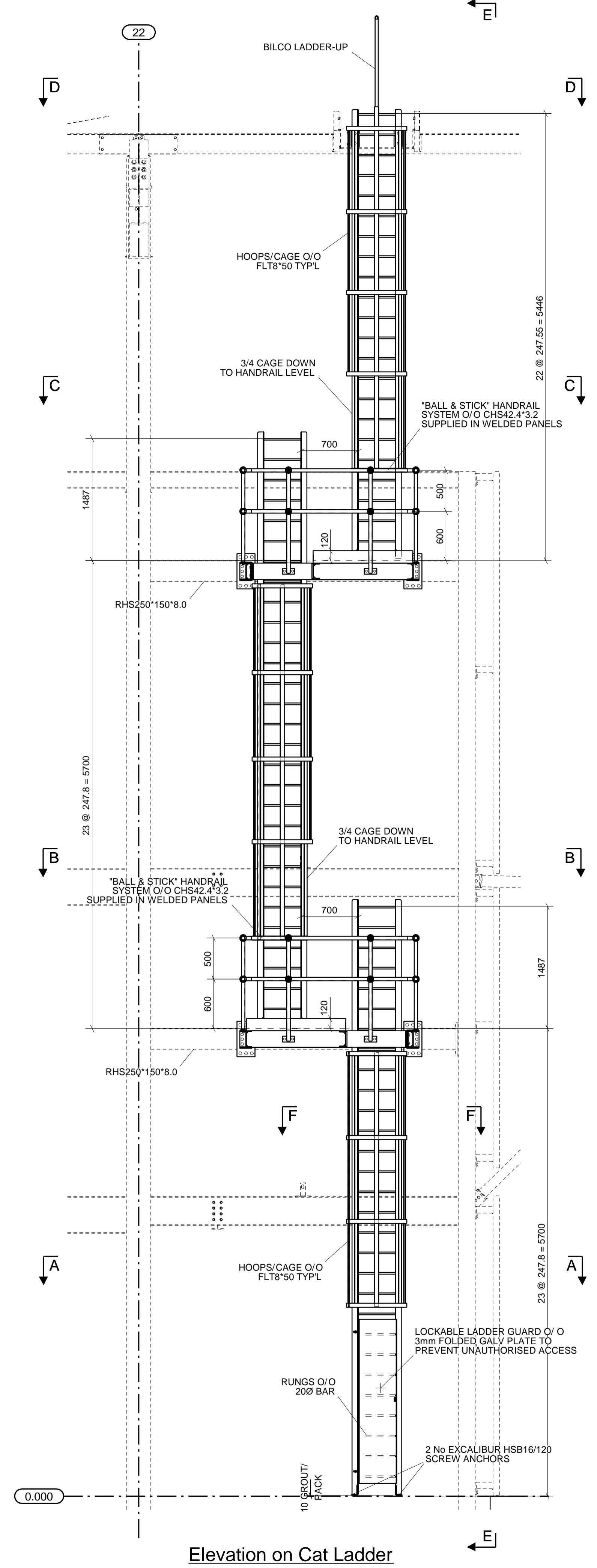
Specific Notes
Ladders, platforms & handrail to be galv



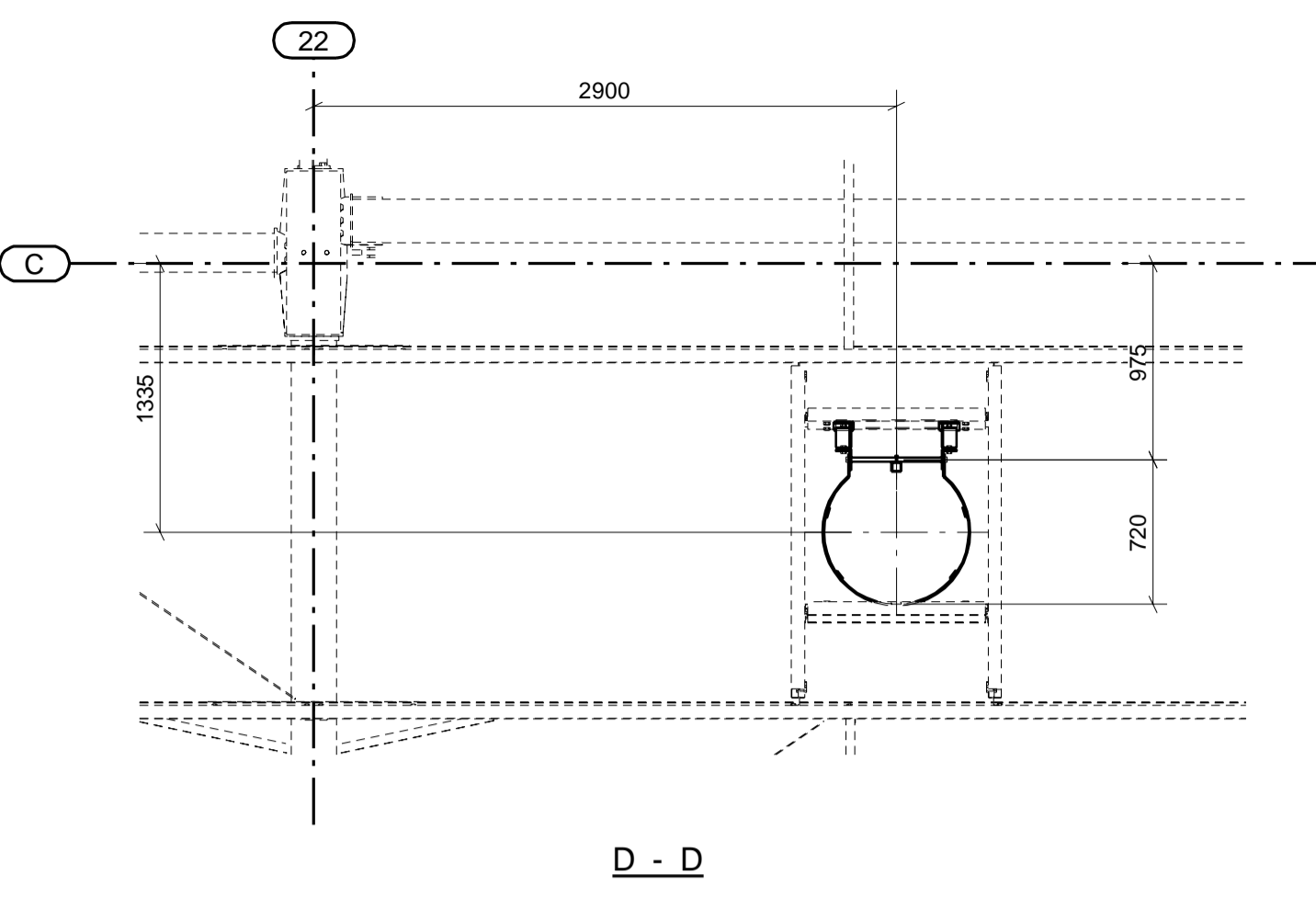
Typ'l Ladder Dim'ns



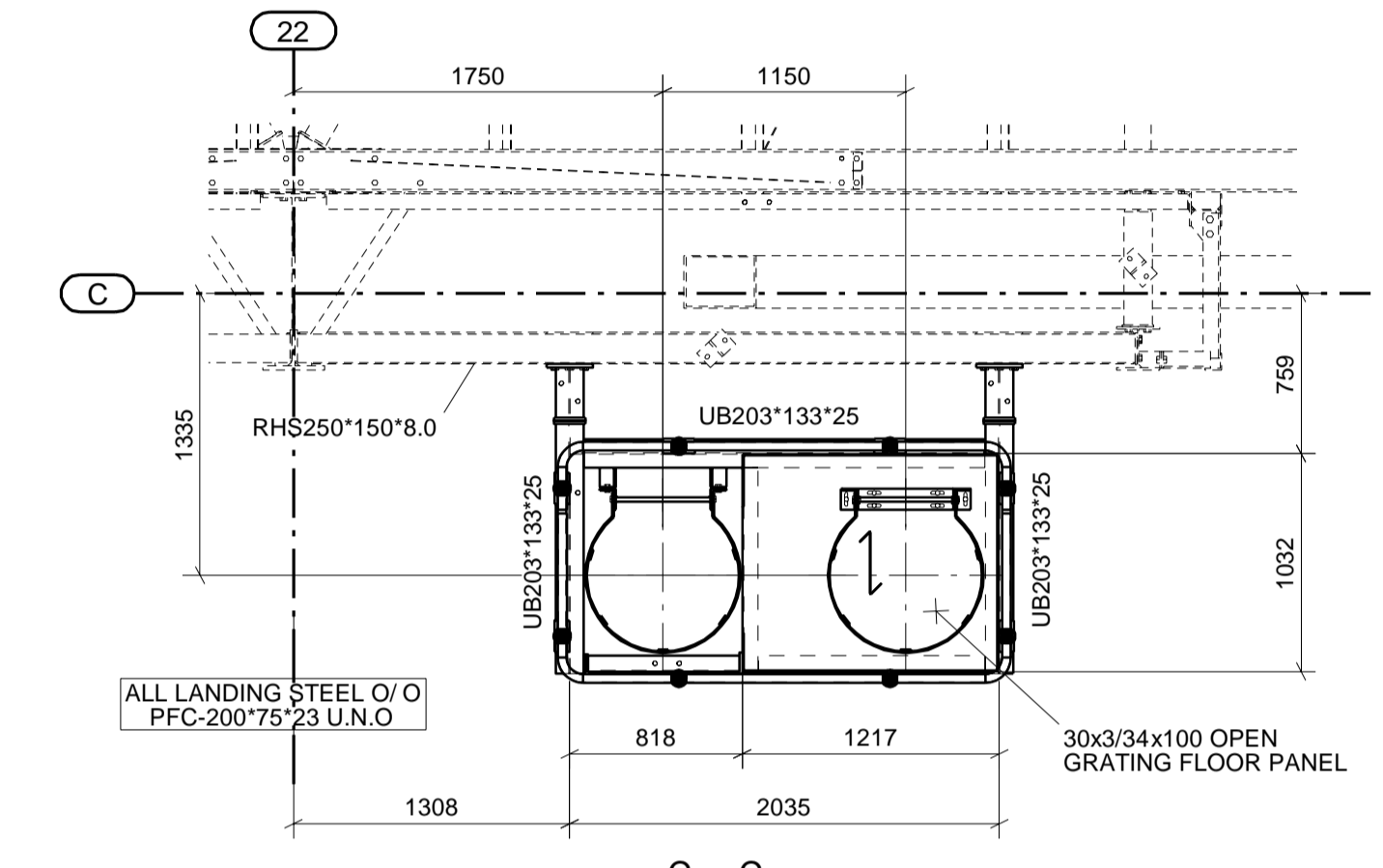
E - E



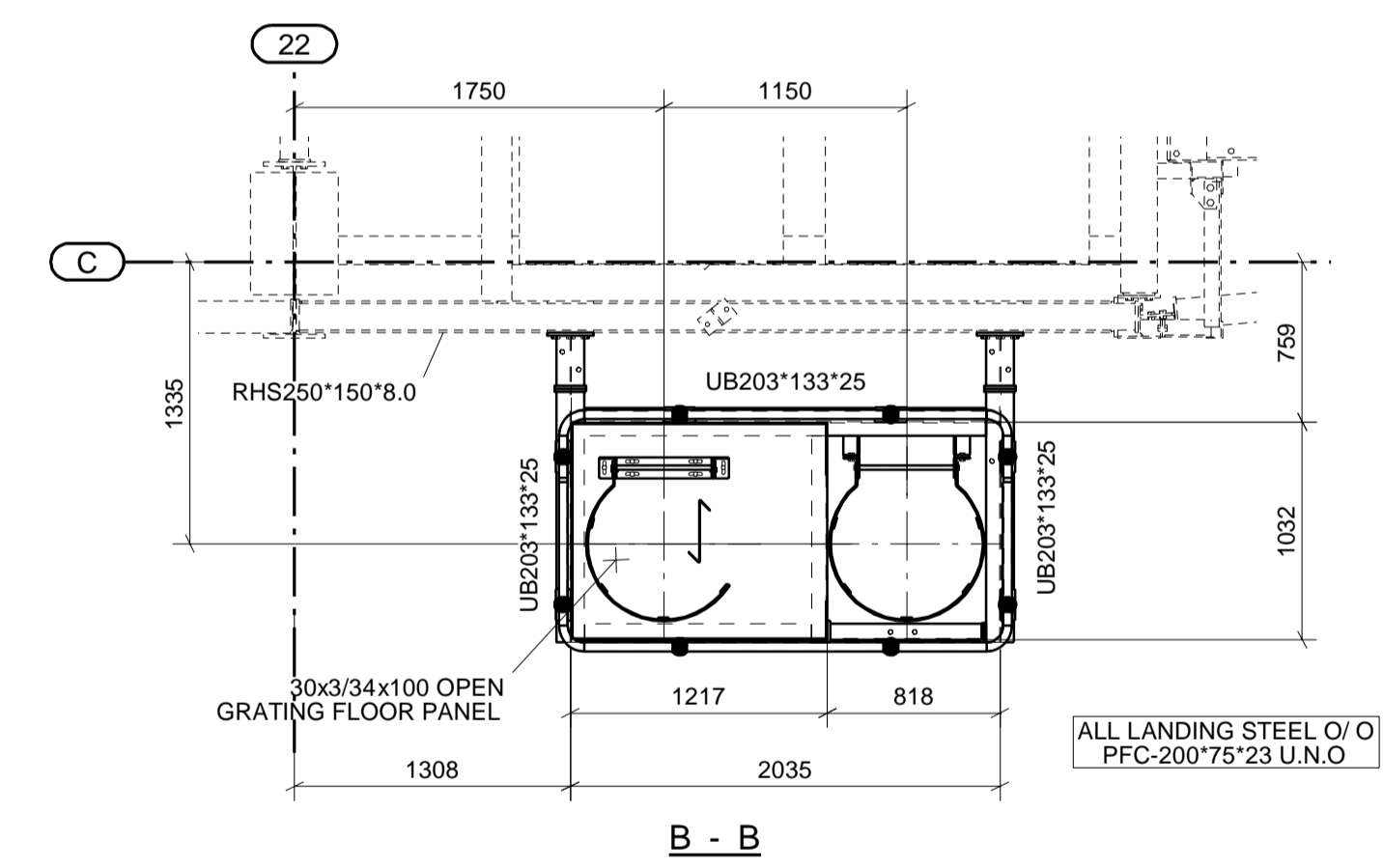
Elevation on Cat Ladder



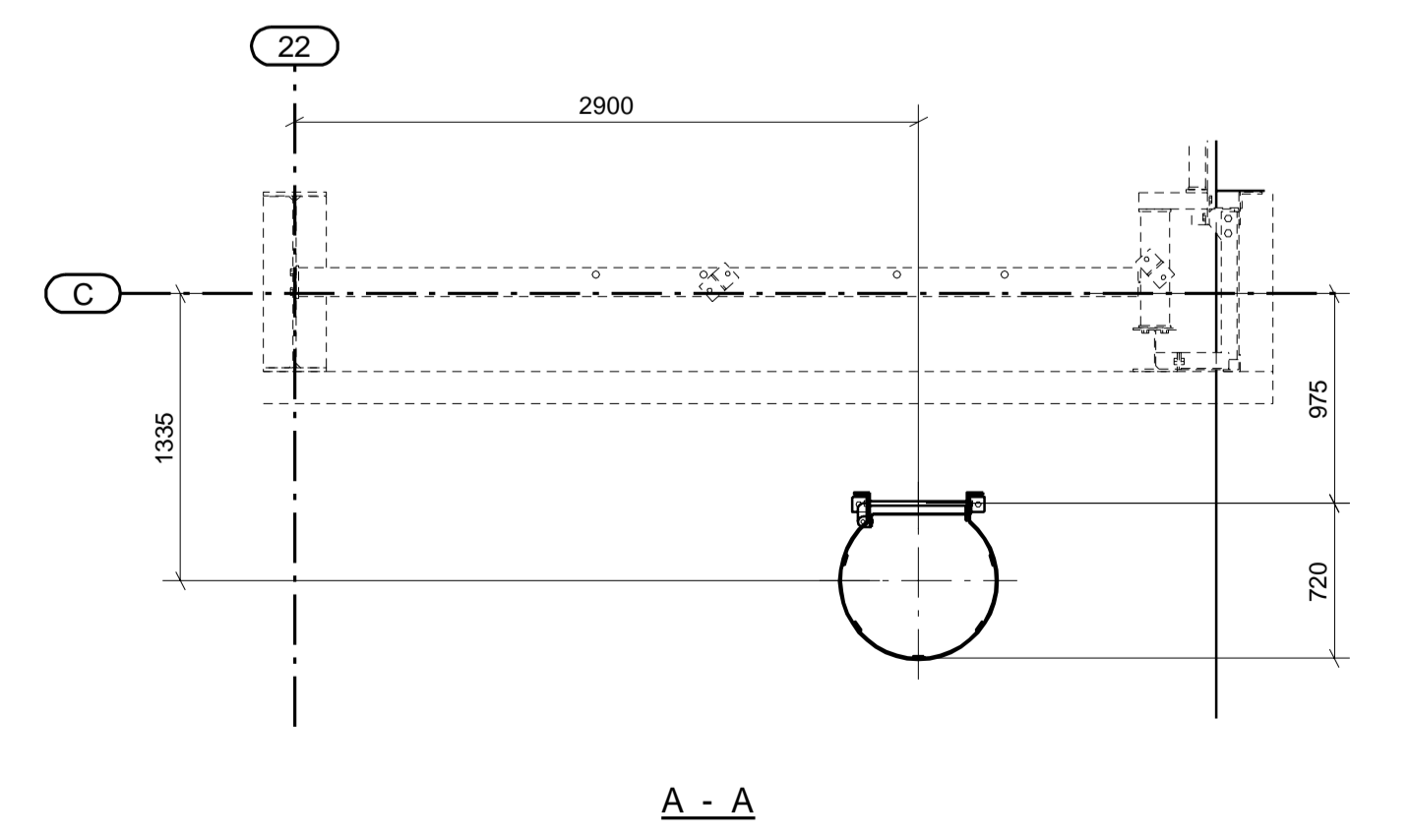
D - D



C - C



B - B



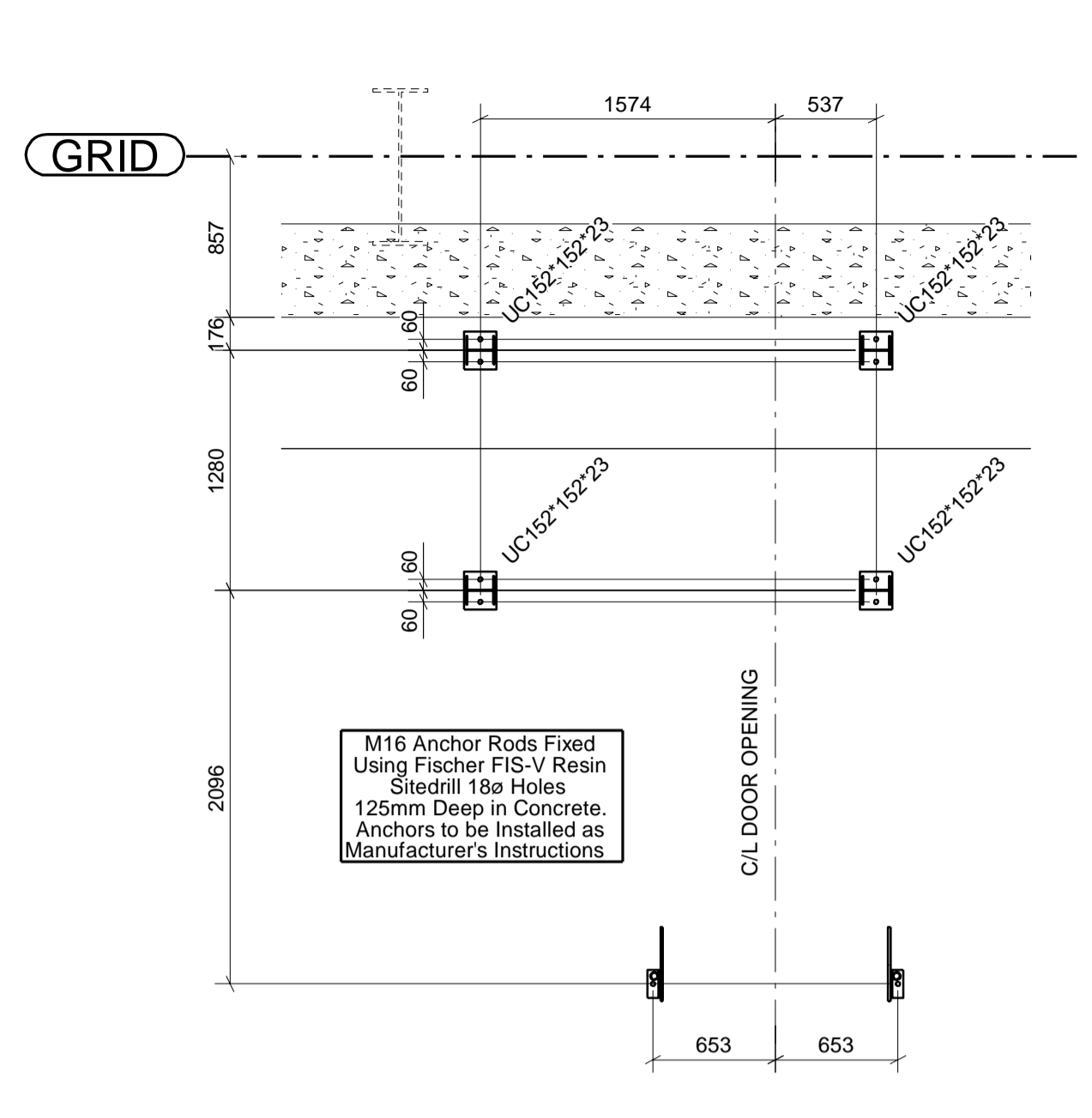
A - A

REV	DESCRIPTION	REV DATE
001	As-Built Issue	17/10/2023
002	Construction Issue	13/04/2023
003	Production Issue	24/03/2023
004	Revision of Description	REV DATE

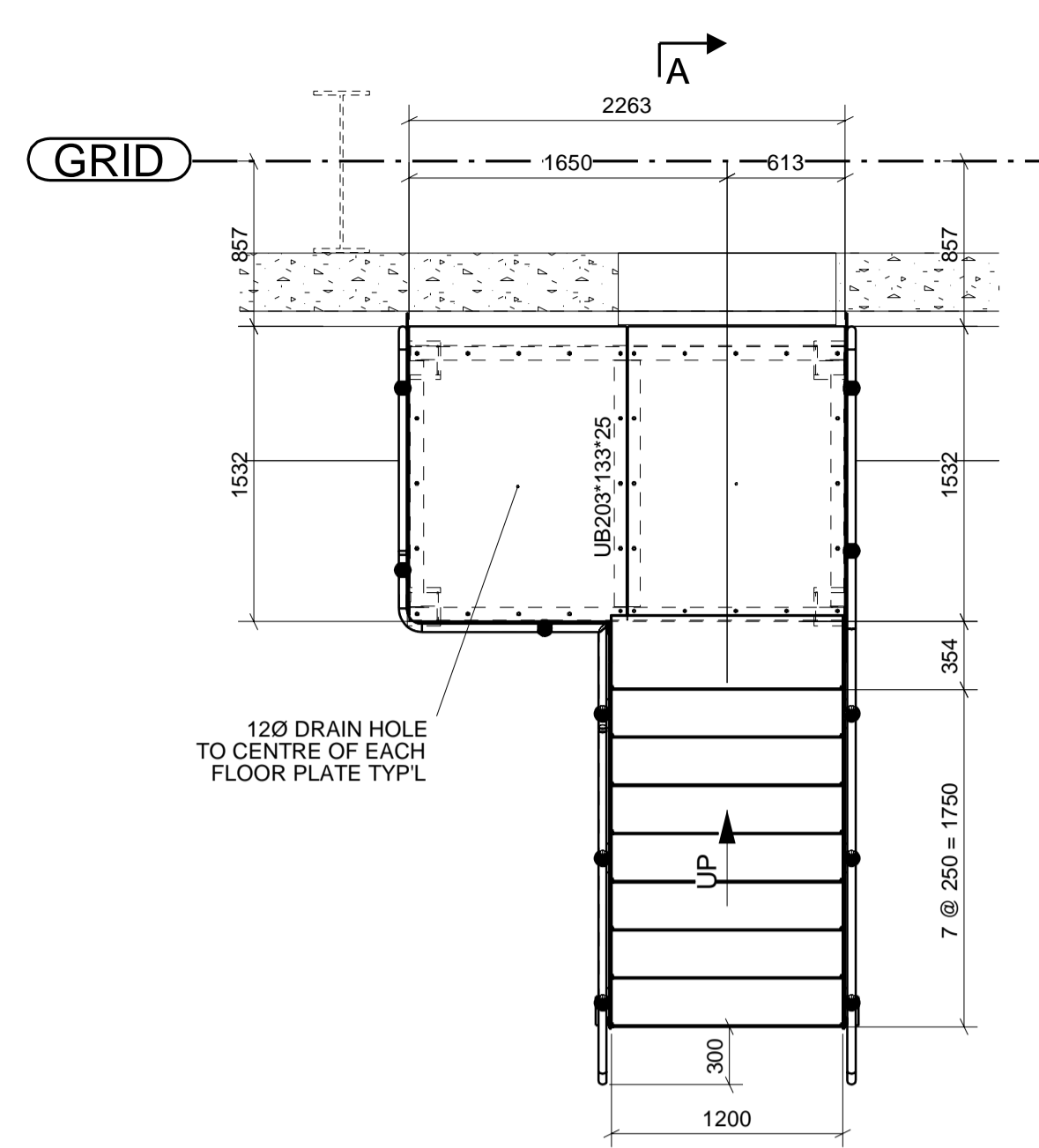
STATUS : AS BUILT ISSUE



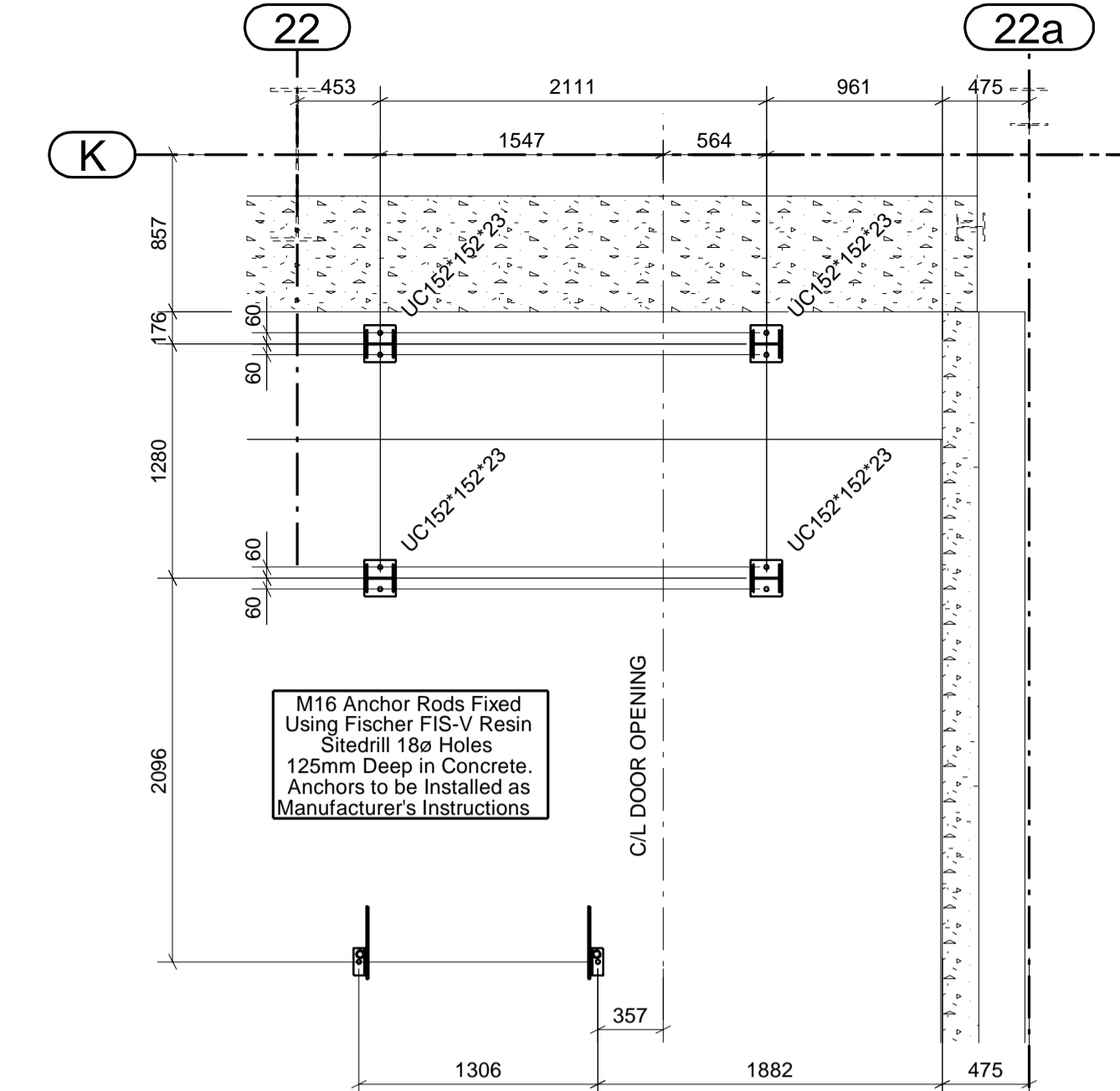
Client	Wimac Construction Ltd
Project Location	Plot 4000, Gateway 14, Stowmarket, Suffolk
Drawing Title	General Arrangement Showing Roof Maintenance Access Ladder Grid C/22-23
Scale	1:15 1:35
Drawn By	D. Butler
Project Type	Design & Build
Drawn Date	24/03/2023
Checked By	
Checked Date	
Drawn No.	CF0157
Drawn Date	24/03/2023
Drawn By	D. Butler
Drawn Date	24/03/2023
Drawn No.	P22036-CEL-W1-ZZ-DR-X-0501
Drawn Date	B01



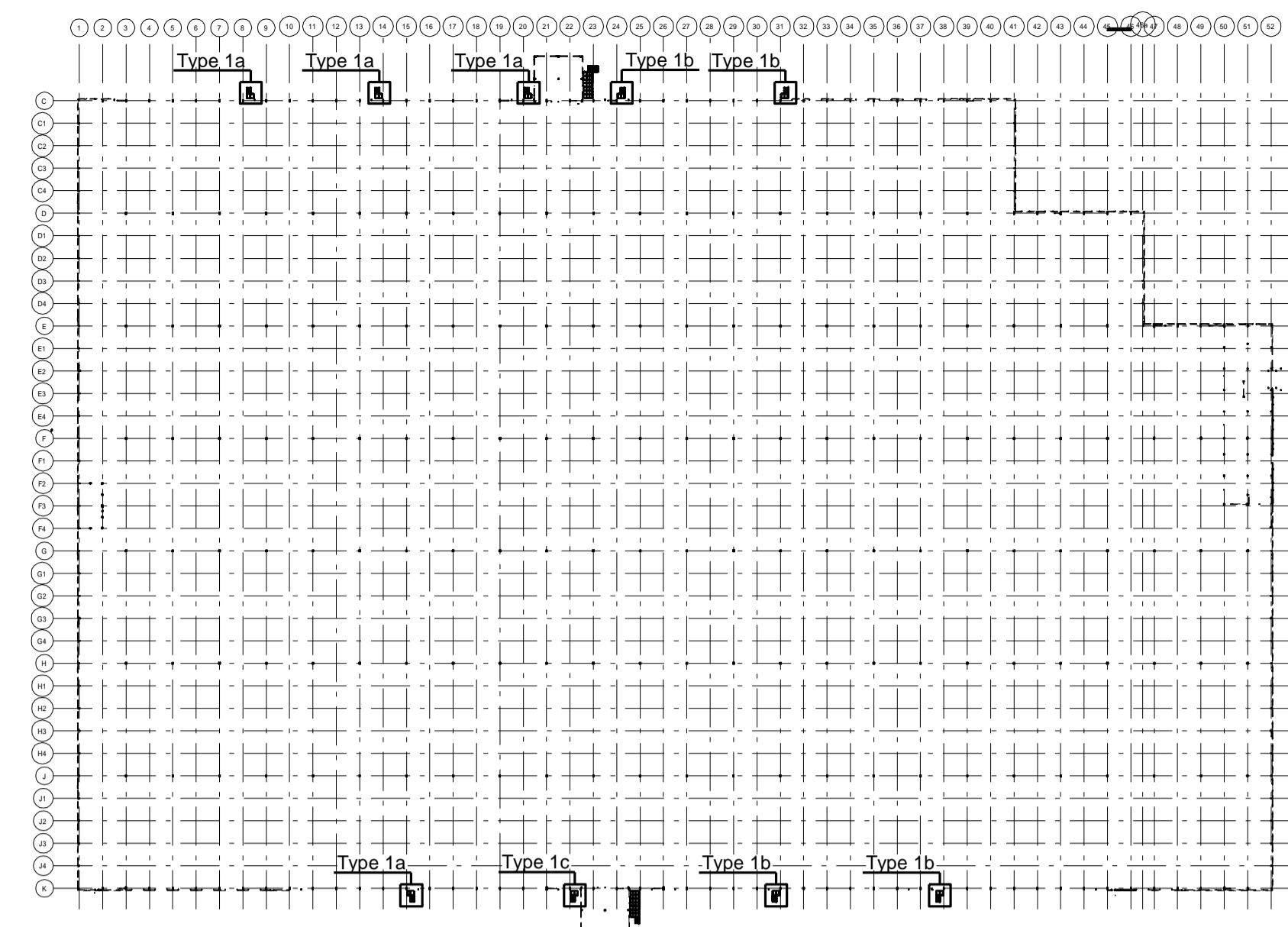
Dock Stair Type 1a Bases



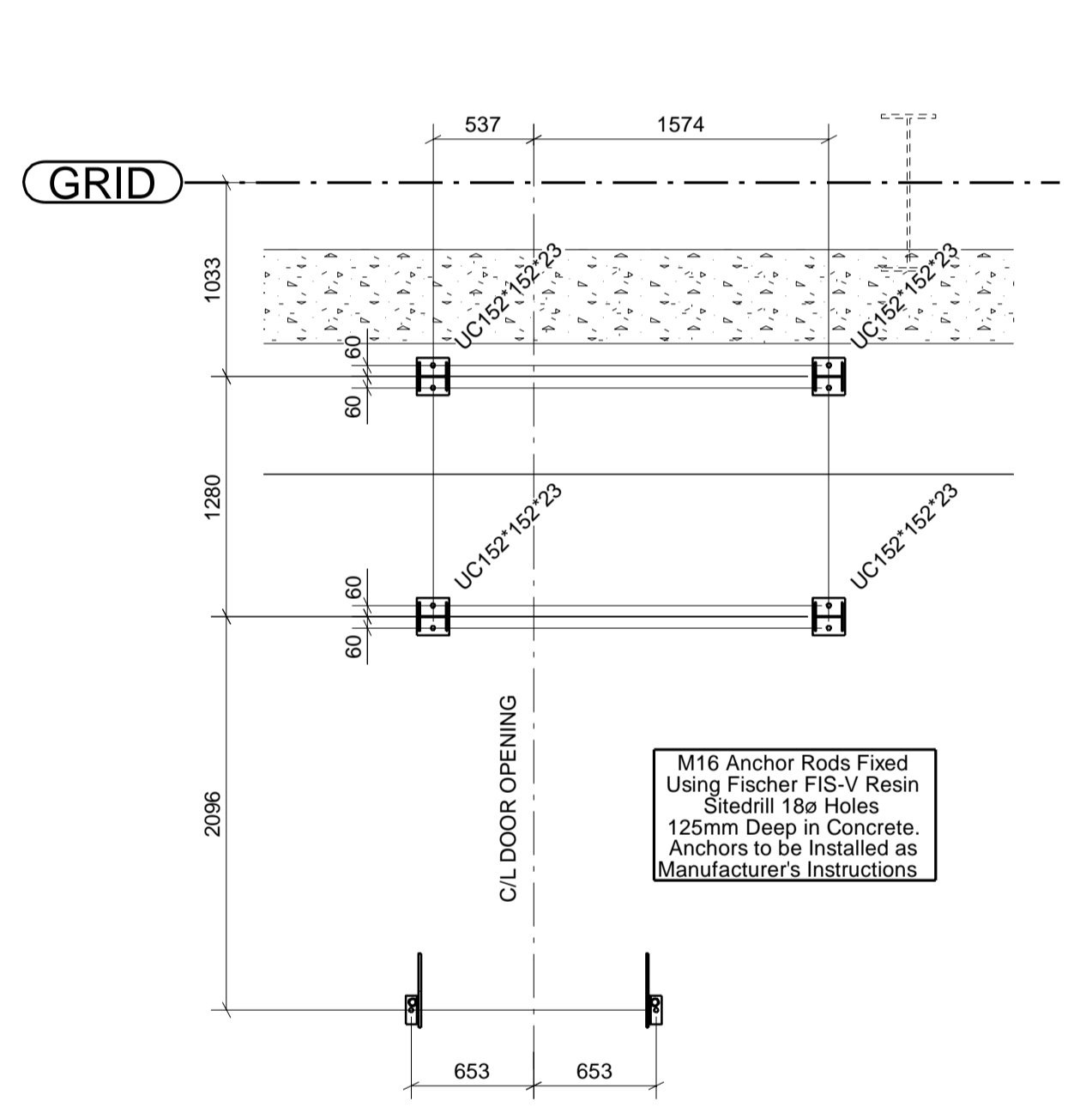
Dock Stair Type 1a



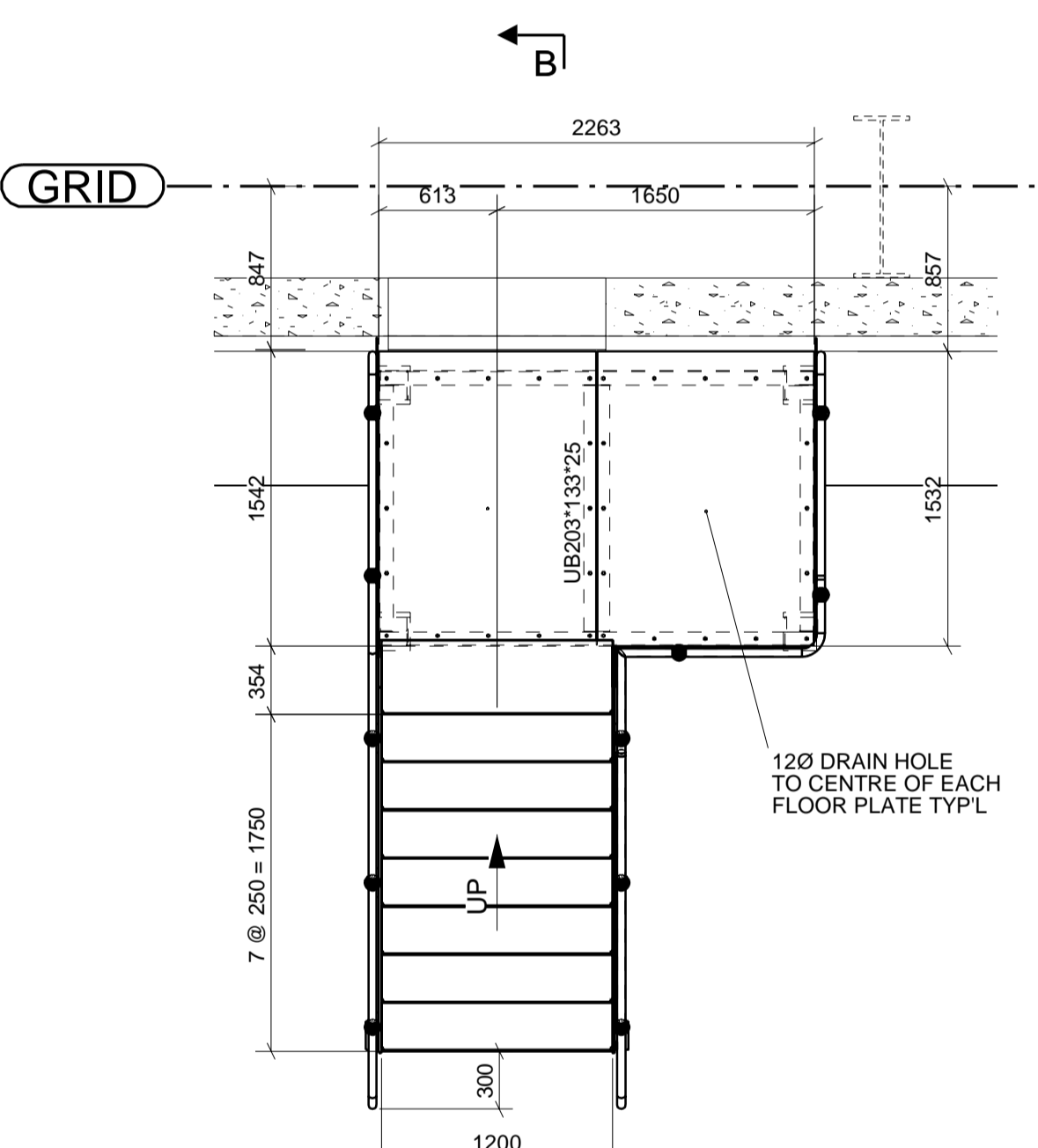
Dock Stair Type 1c Bases



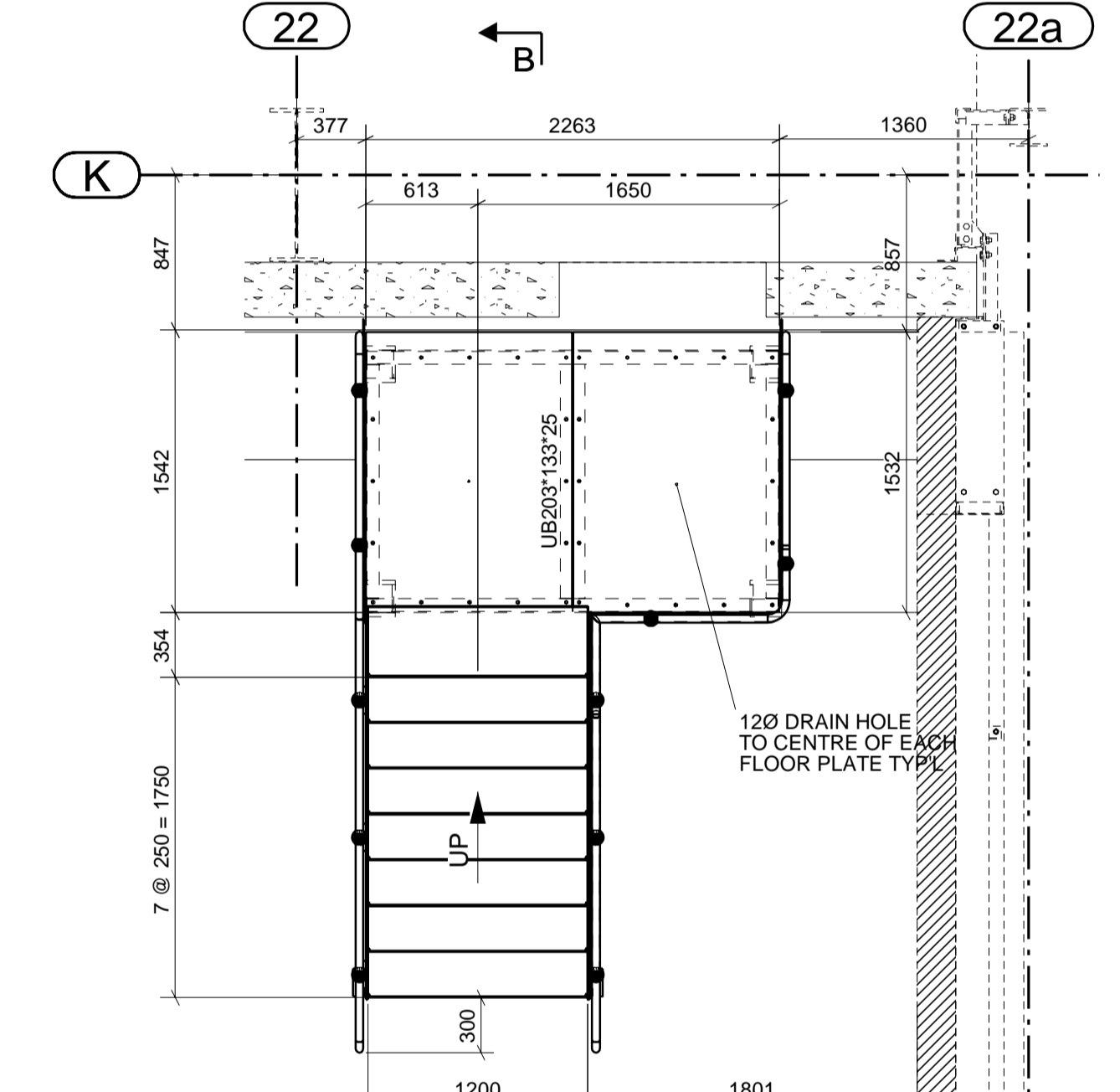
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- Specific Notes**
- Stair stringers to be FLT12*220
 - Landing steel to be PFC200*75*23 U.N.O
 - All pattern plate is 6mm on plan
 - All handrail posts are CHS42.4*3.2
 - All handrails are CHS42.4*3.2
 - Handrail is to be a 'ball & sock' type system supplied in welded panels
 - Stairs, landings & handrail to be galv



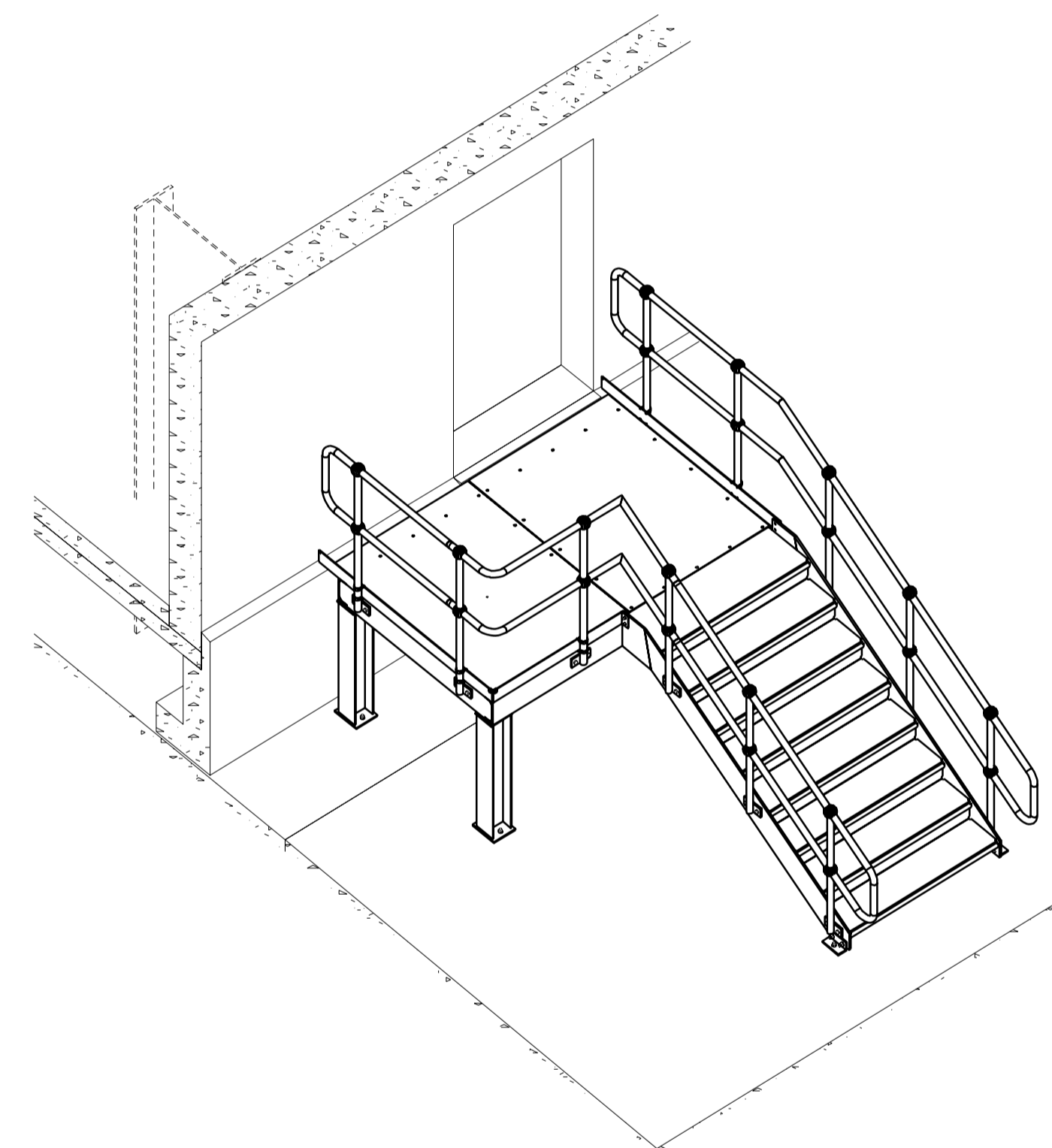
Dock Stair Type 1b Bases



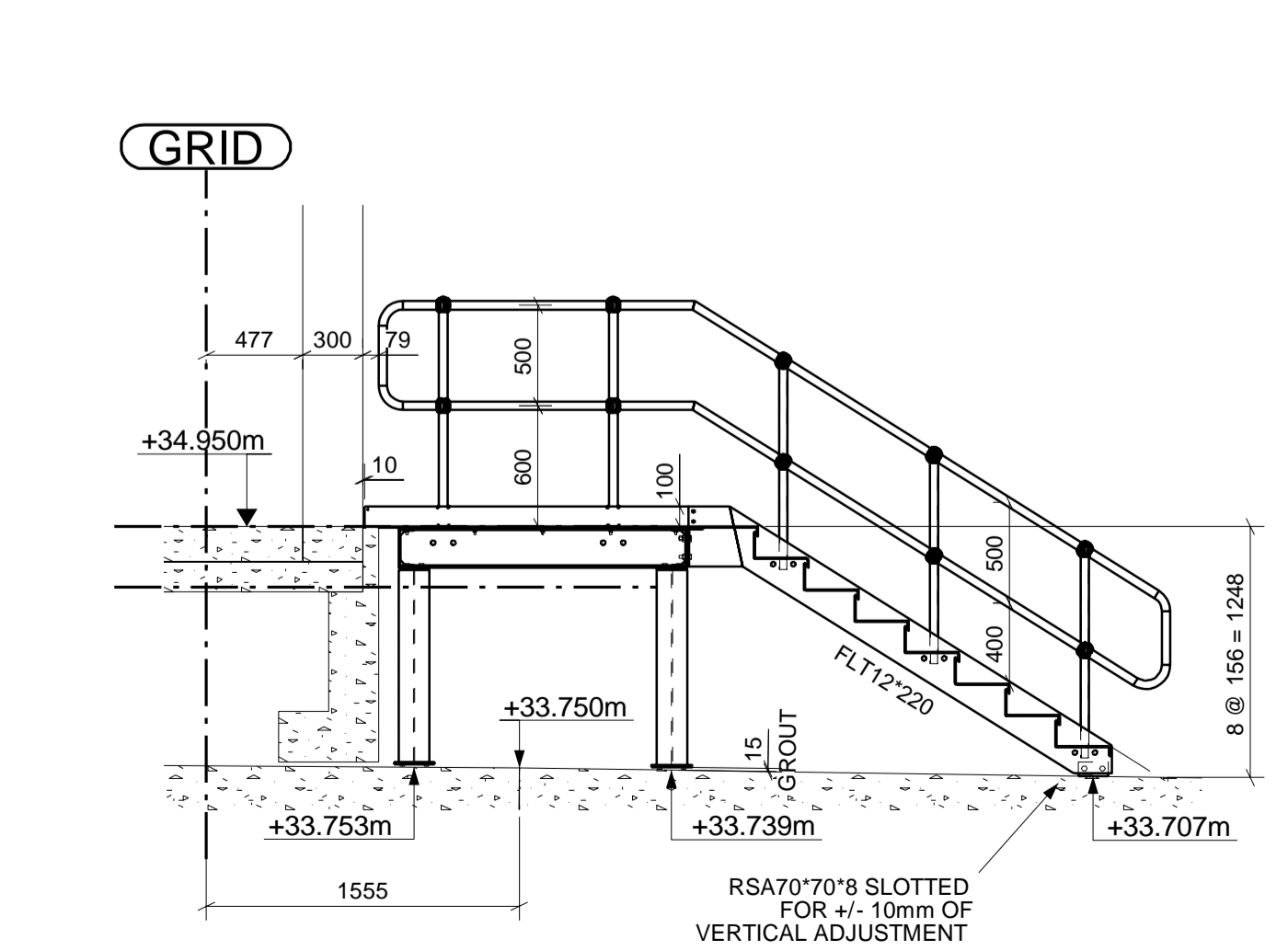
Dock Stair Type 1b



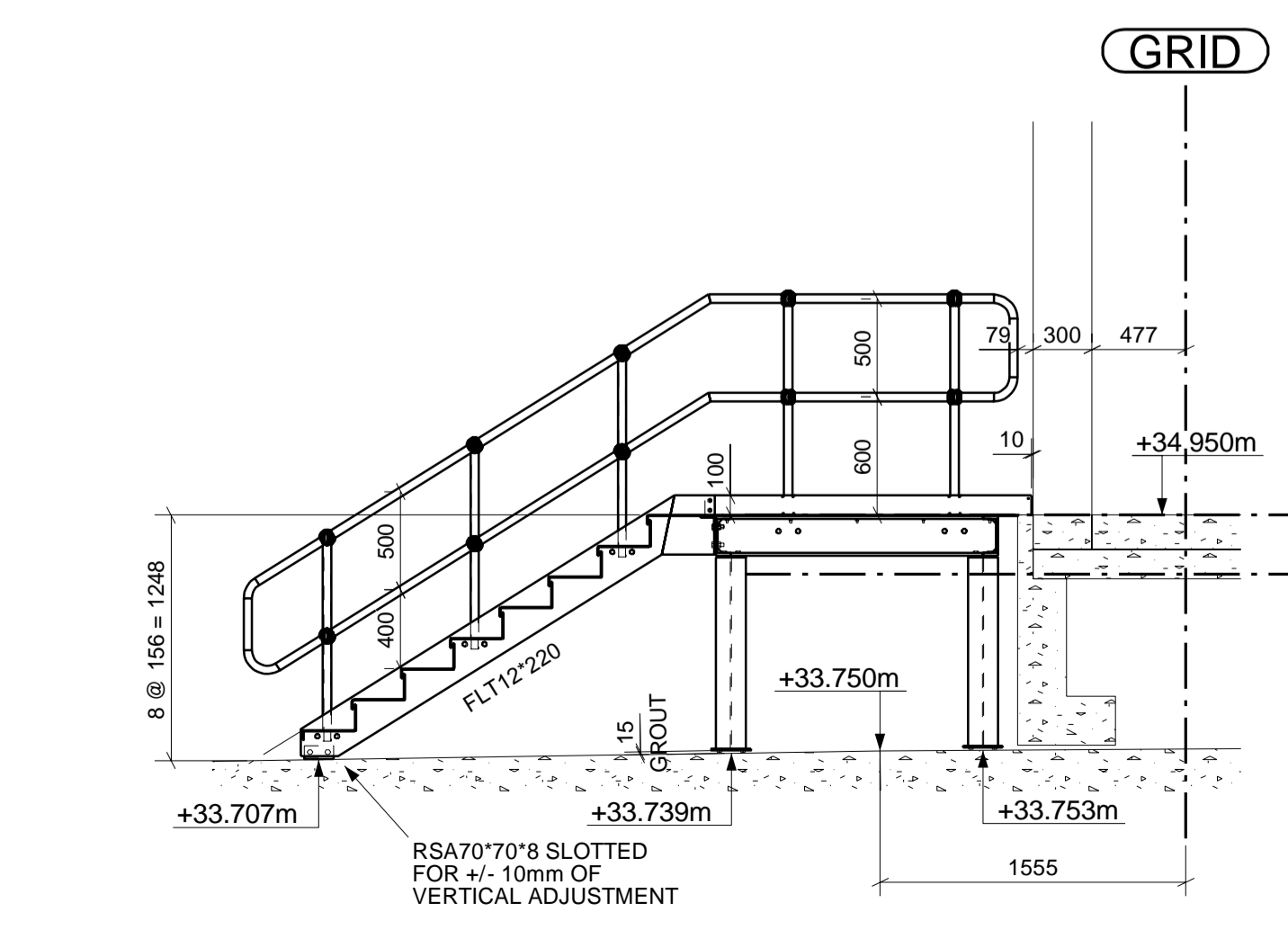
Dock Stair Type 1c



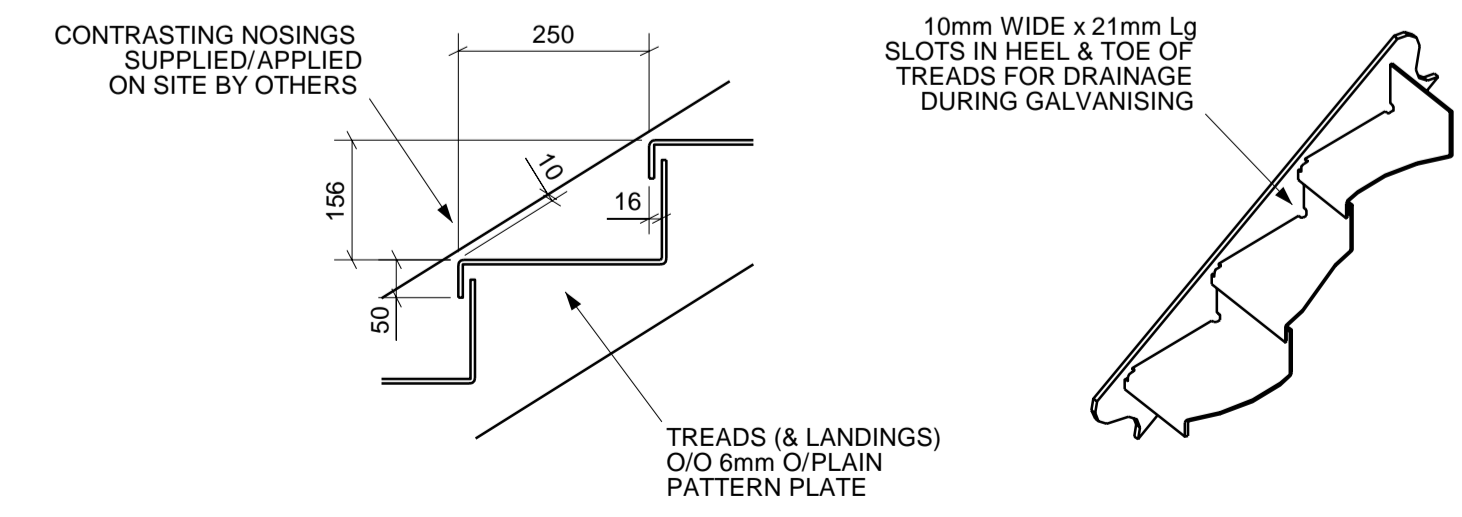
Dock Stair Type 1a (1b Opp Hand)



View on A - A



View on B - B



Typ! Tread Details

REV	DESCRIPTION	DATE
001	As Built Issue	11/03/2023
002	Added New Top Step and GRC	20/04/2023
003	Step K16-21 Needs to be 100mm	14/04/2023
004	Comments Incorporated - Construction Issue	10/05/2023
005	Preliminary Issue	28/04/2023
006	Revision of Construction	REV DATE

STATUS : AS BUILT ISSUE

caution
ENGINEERING

Caution Engineering Limited
Moorgreen Industrial Park
Moorgreen, Nottingham, NG17 3SQJ
TEL: 0115 9511111 FAX: 0115 9585000
www.caution.co.uk Tech: E:\Arch\Drawings\caution.co.uk

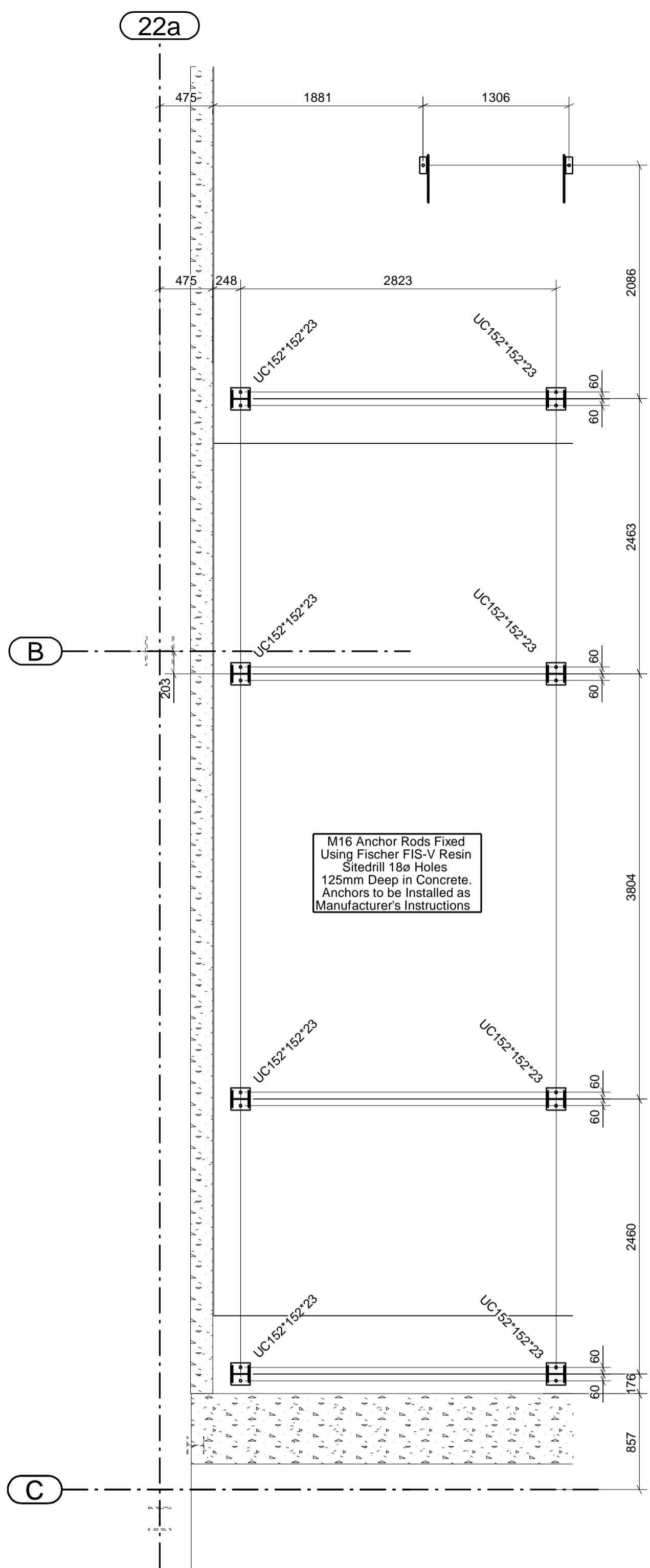
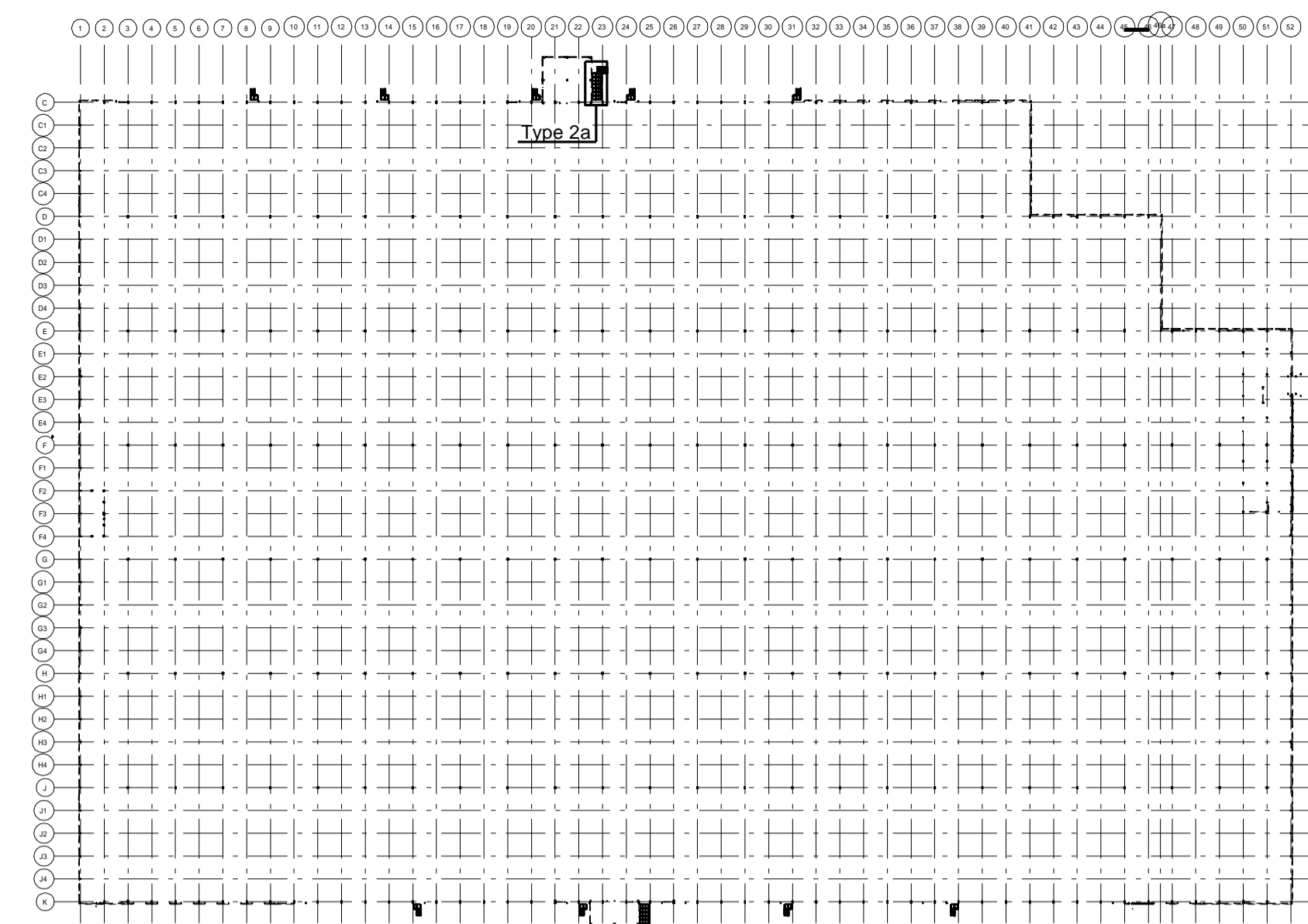
Client: Wincob Construction Ltd
Project Overview: Plot 4000, Gateway 14
Location: Stowmarket, Suffolk

Drawing Title: General Arrangement Showing Dock Stairs Type 1a & 1b

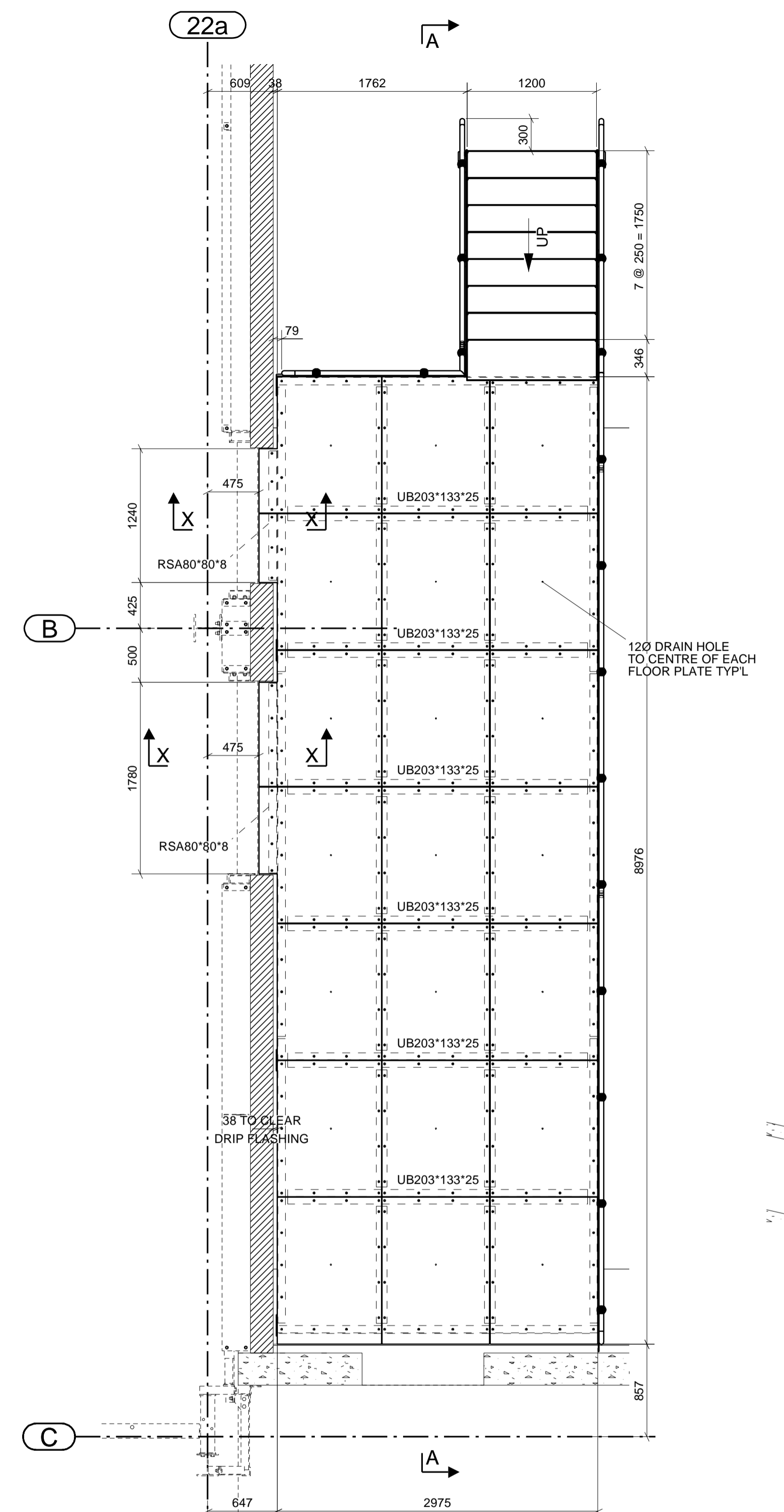
Scale: 1:10	1:35	1:2000	CDL Job No: CF0157
Drawn by: D. Butler	Project Type: Design & Build	Drawn Date: 28/04/2023	Drawn By: D. Butler
Checked by: D. Butler	Design & Build	Drawn Date: 28/04/2023	Drawn By: D. Butler
Drawn Date: 28/04/2023	Drawn By: D. Butler	Drawn Date: 28/04/2023	Drawn By: D. Butler

Revision: P22036-CEL-W1-ZZ-DR-X-0502 B01

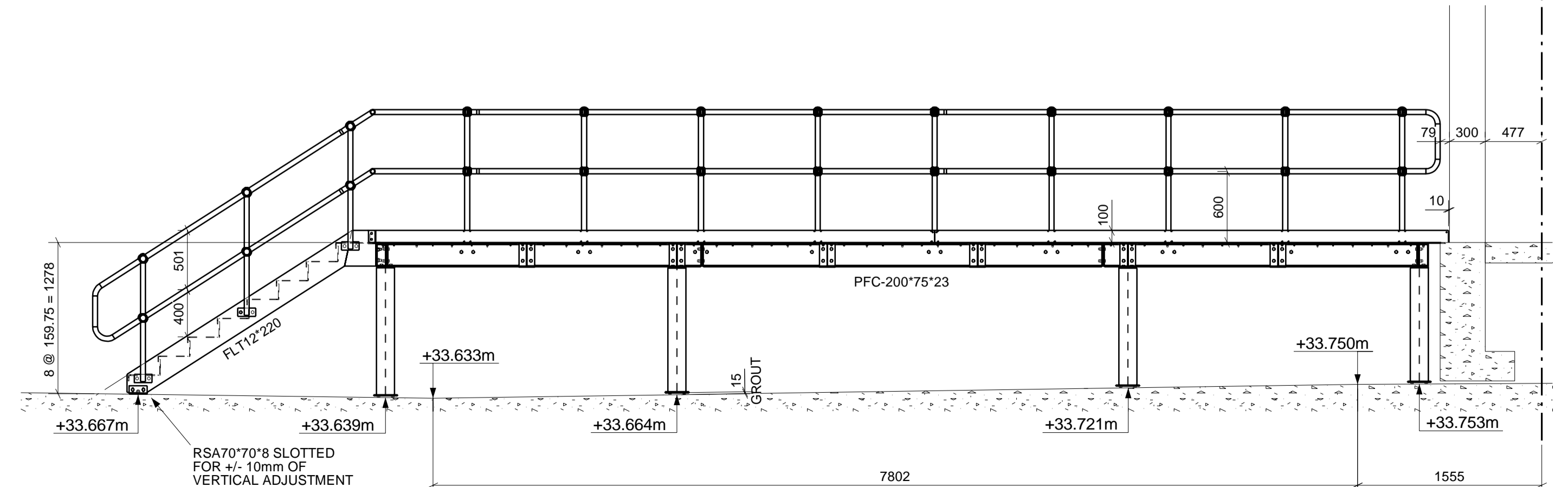
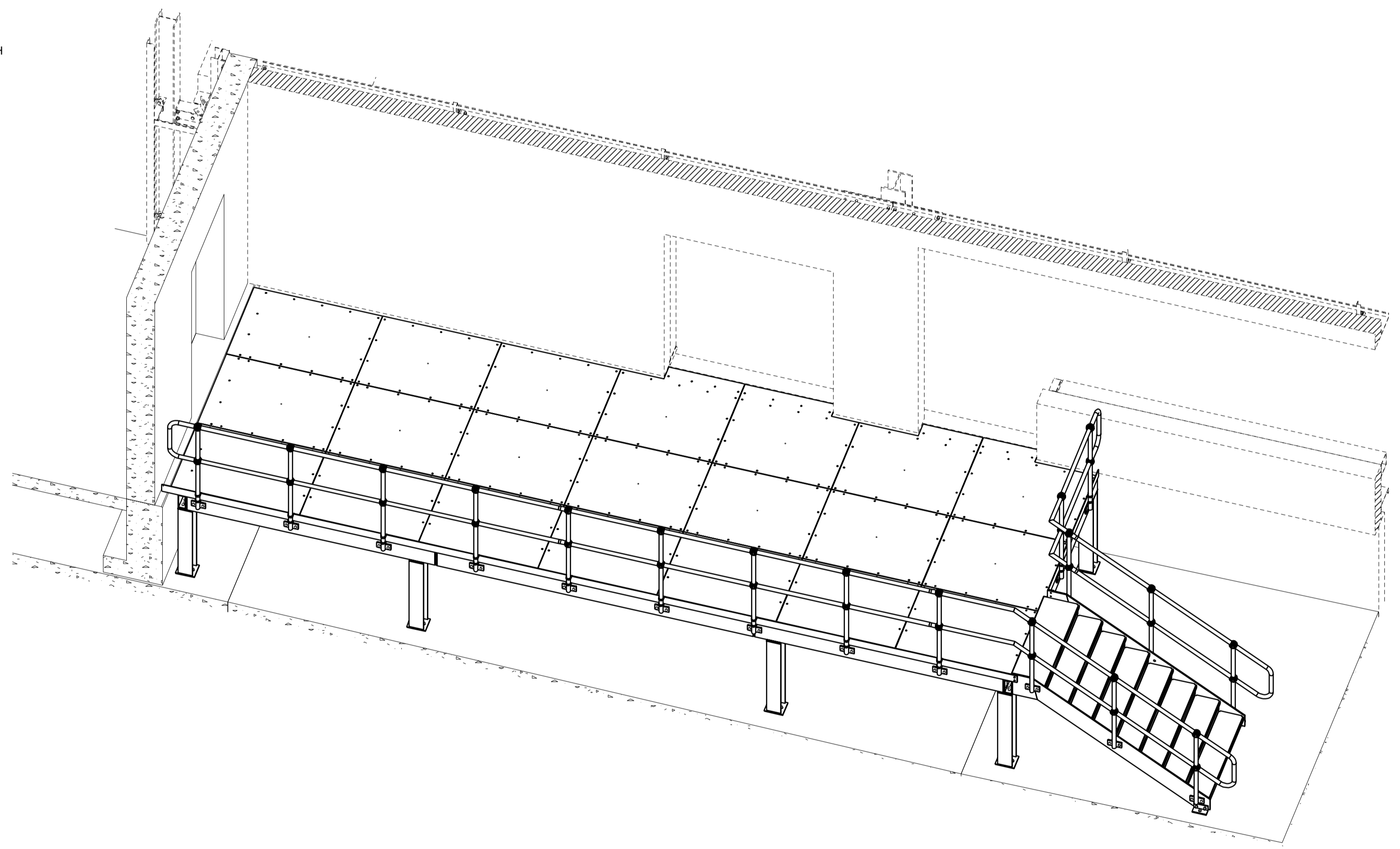
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- Specific Notes**
- Stair stringers to be FL12*220
 - Landing steel to be PFC200*75*23 U.N.O
 - All pattern plate is 6mm on plan
 - All handrail posts are CHS42.4*3.2
 - All handrails are CHS42.4*3.2
 - Handrail is to be a 'ball & sock' type system supplied in welded panels
 - Stairs, landings & handrail to be galv



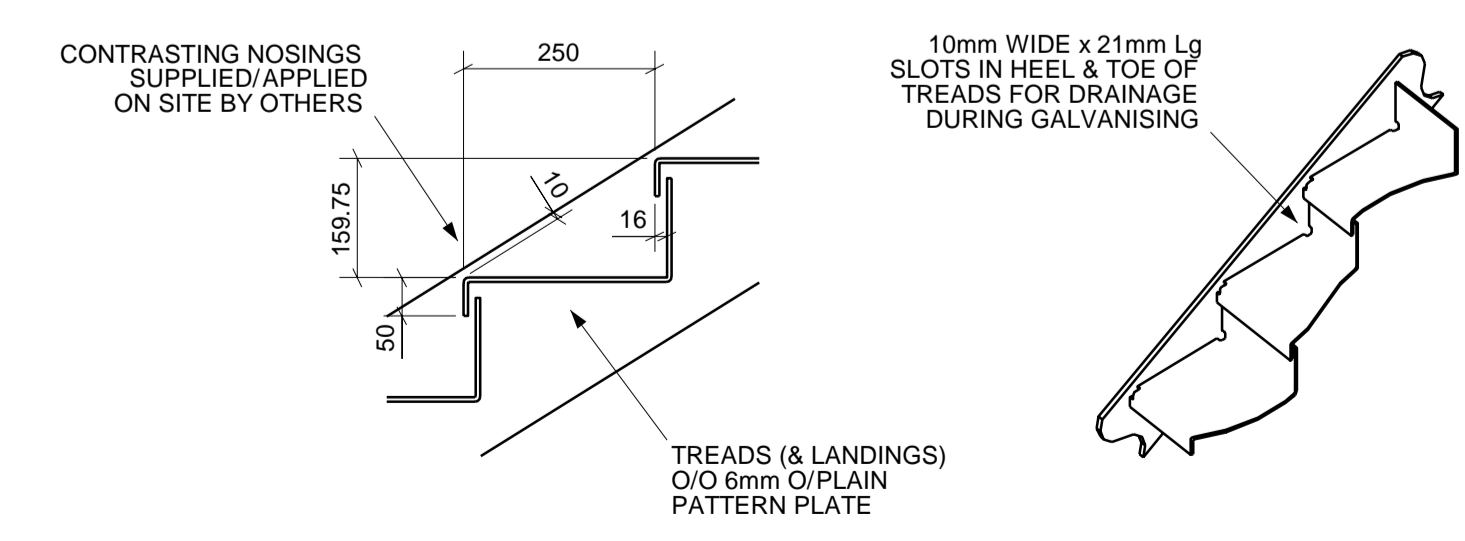
External Stair Type 2a Bases



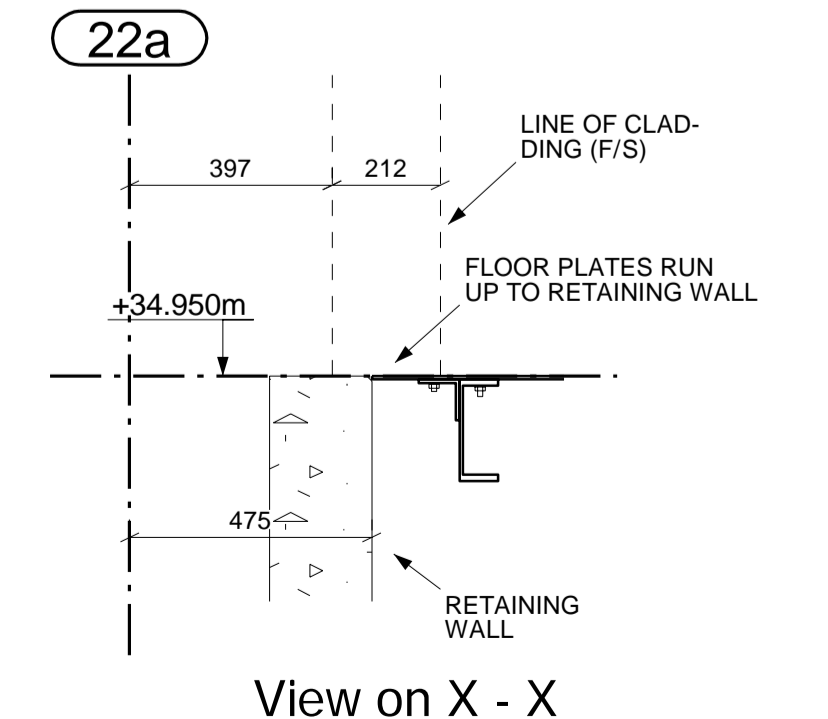
External Stair Type 2a



View on A - A



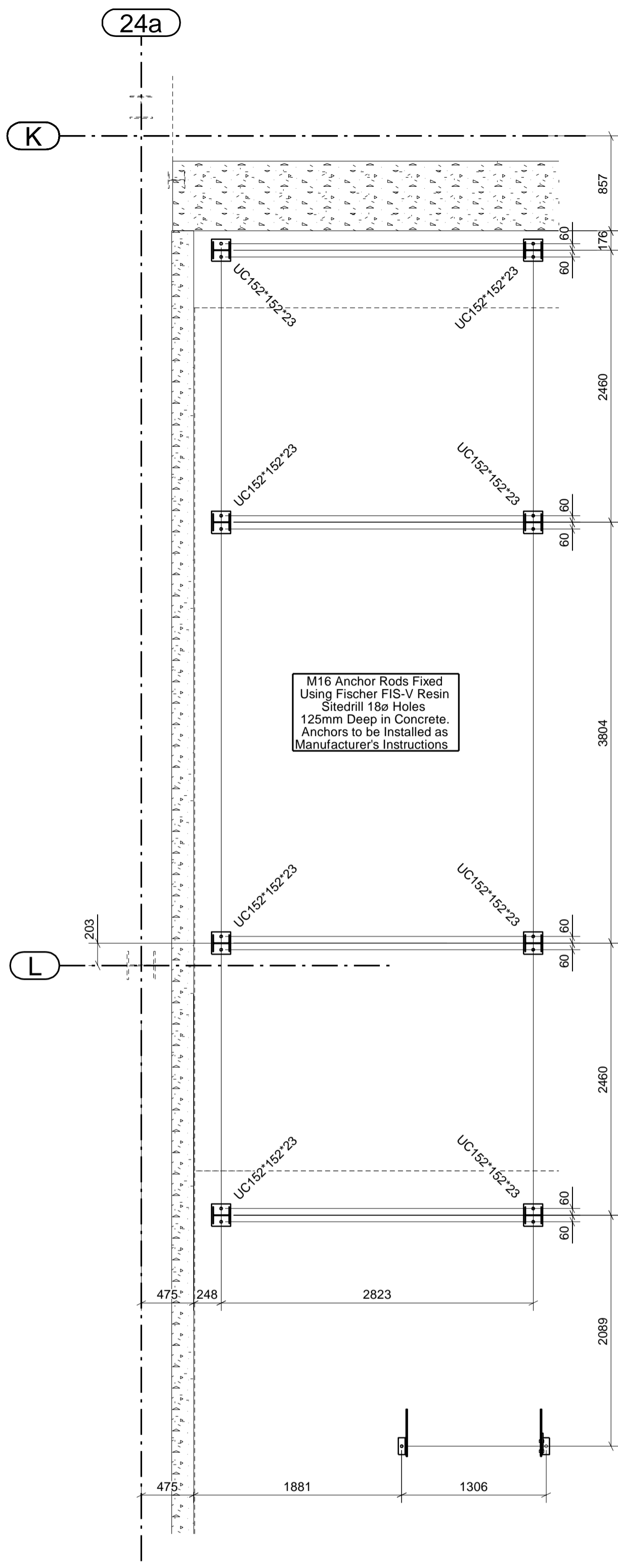
Typ I Tread Details



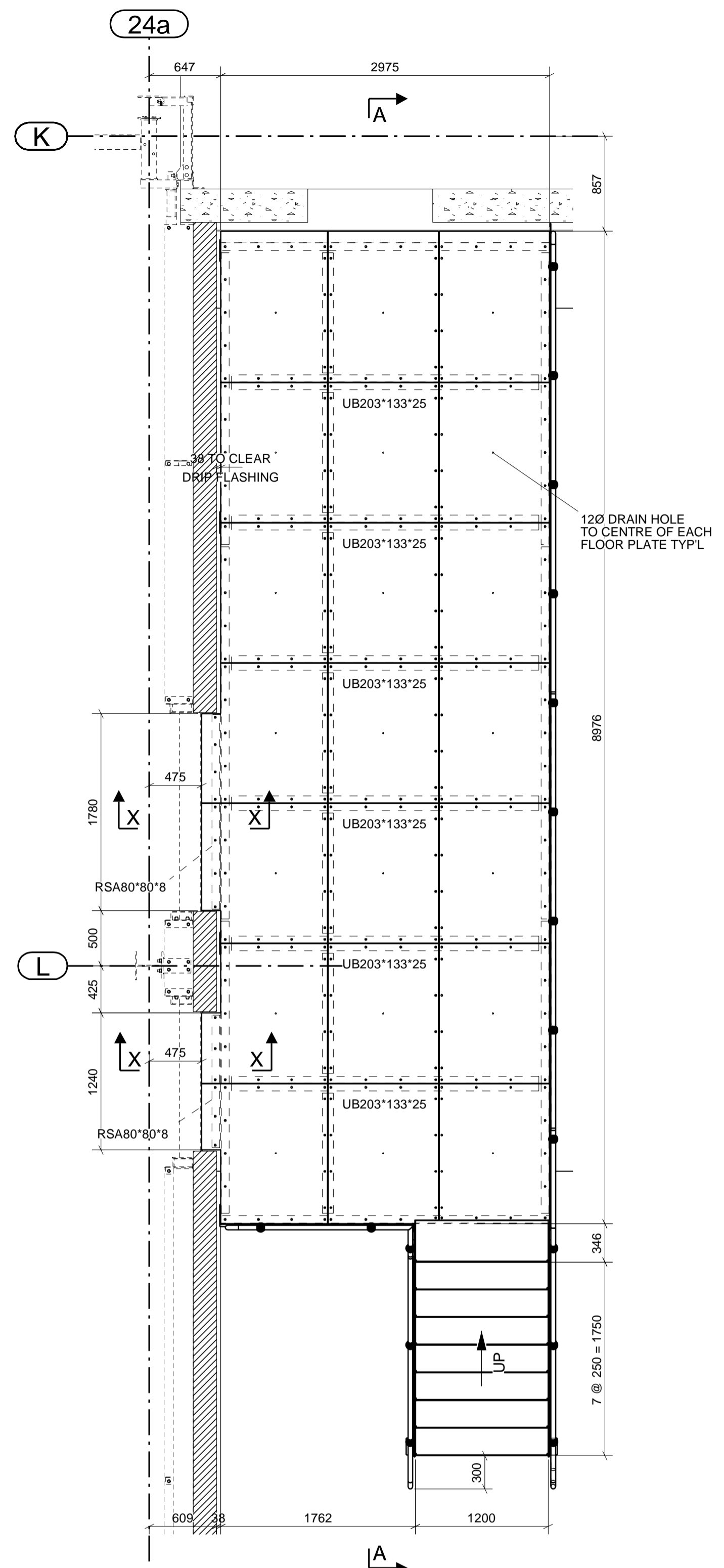
View on X - X

REV	As-Built Issue	17/10/2023
CD	Comments Incorporated - Contractor Issue	10/05/2023
PS	Preliminary Issue	28/04/2023
REV MARK	REVISION OR SUPPLEMENT	REV DATE
STATUS : AS BUILT ISSUE		
caution ENGINEERING		
Caution Engineering Limited Moorgreen Industrial Park Moorgreen, Nottingham, NG17 5SQJ TEL: 0117 9241111 FAX: 0117 9242020 www.caution.co.uk Tech: S.M.H. drawing@caution.co.uk		
Client: Wincis Construction Ltd		
Project Overview: Plot 4000, Gateway 14		
Site: Stowmarket, Suffolk		
Drawing Title: General Arrangement Showing External Stair Type 2a		
Scale: 1:10 1:15 1:35 1:2000	CD: Job No: CF0157	Drawn by: D. Butler
Checked/Reviewed by:	Project Type: Design & Build	Date Created: 28/04/2023
Revision: P22036-CEL-W1-ZZ-DR-X-0503		Rev: B01

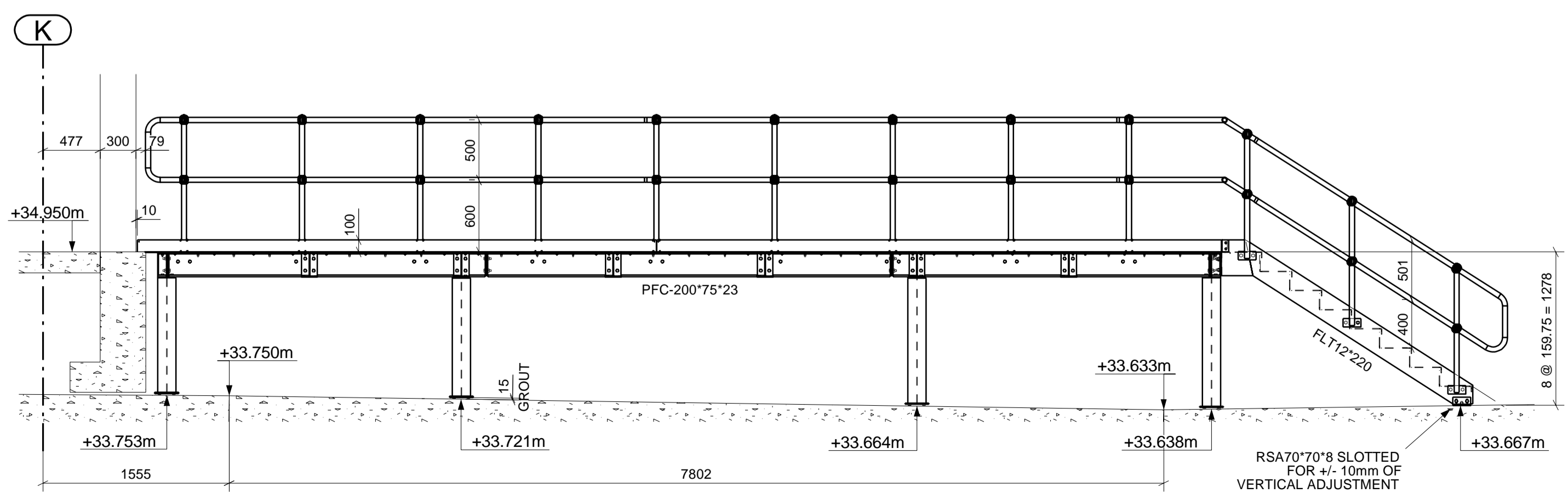
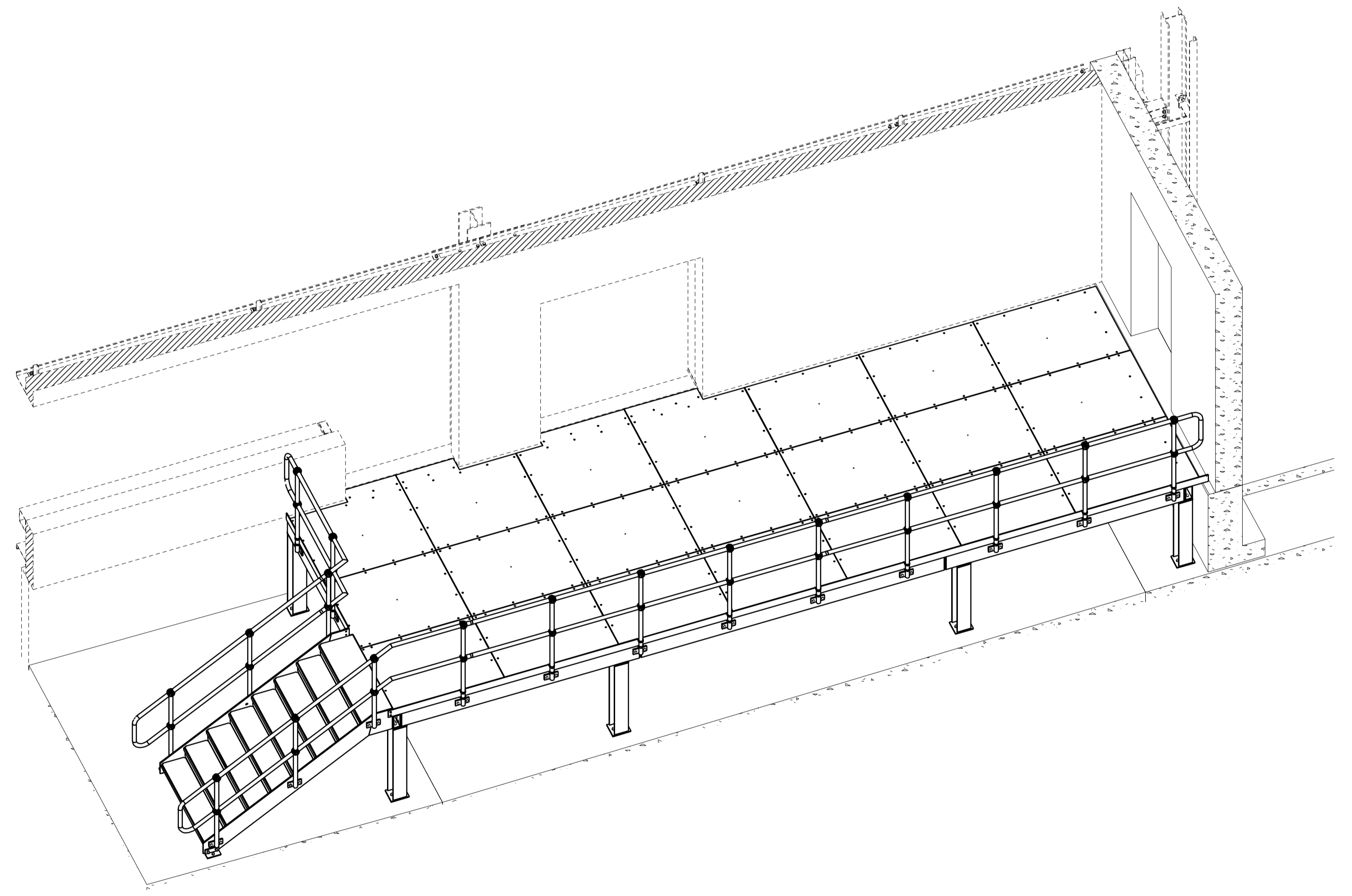
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- Specific Notes**
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 - Landing steel to be PFC200*75*23 U.N.O
 - All pattern plate is 6mm on plan
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 - Handrail is to be a 'ball & sock' type system supplied in welded panels
 - Stairs, landings & handrail to be galv



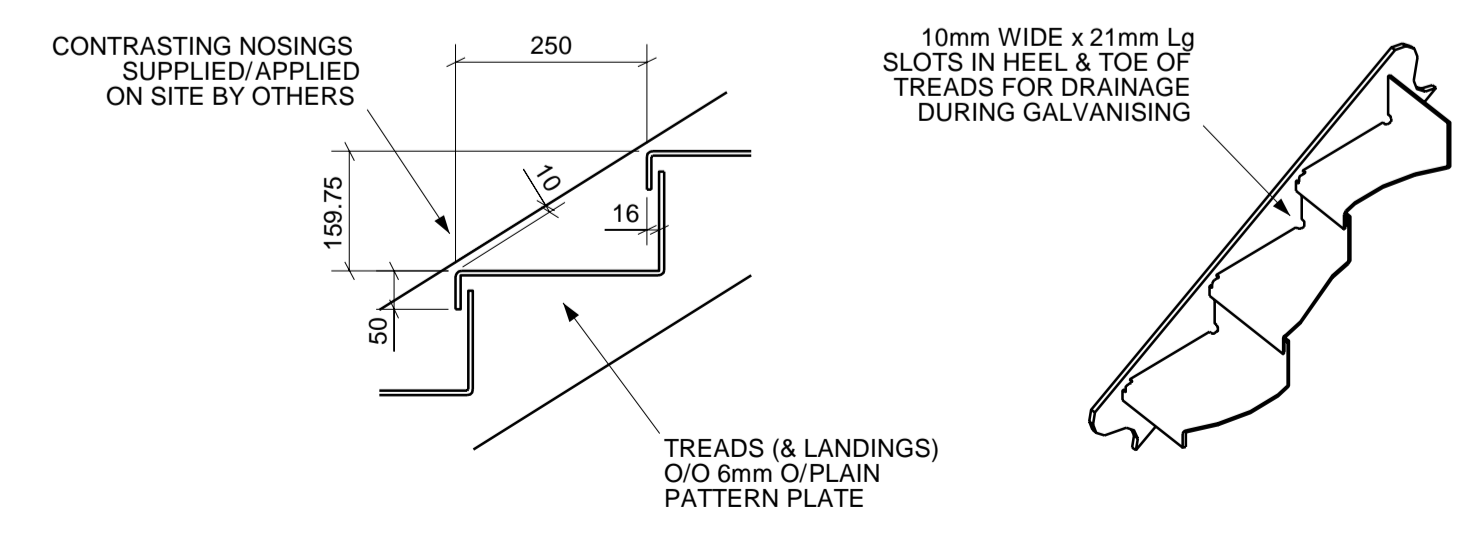
External Stair Type 2b Bases



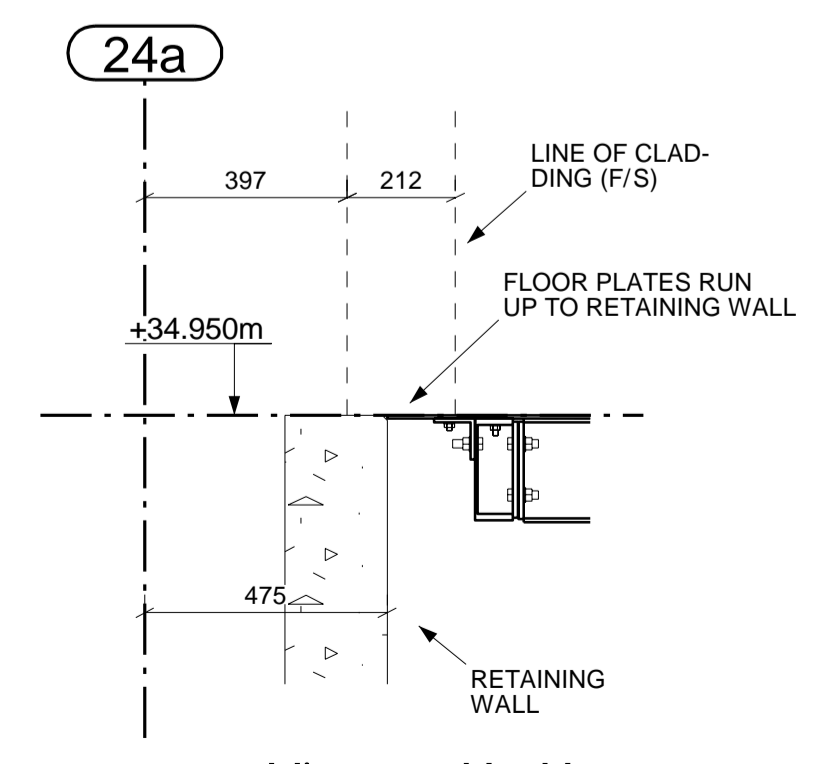
External Stair Type 2a



View on A - A



Typ I Tread Details



View on X - X

REV	As-Built Issue	17.10.2023
02	Comments Incorporated	10.05.2023
05	Pre-Review Issue	28.04.2023
REV MARK	REVISION OR SUPPLEMENT	REV DATE

STATUS : AS BUILT ISSUE



Client: Wincor Construction Ltd
 Project: Plot 4000, Gateway 14
 Location: Stowmarket, Suffolk

Drawing Title: General Arrangement Showing External Stair Type 2b

Scale: 1:10	1:15	1:35	1:2000	Doc. No. CF0157
Drawn by: D. Butler	Project Type: Design & Build	Drawn Date: 28.04.2023	Drawn By: Design & Build	Date Revised:
Checked/Reviewed by:	Revision:	P22036-CEL-W1-ZZ-DR-X-0504 B01		