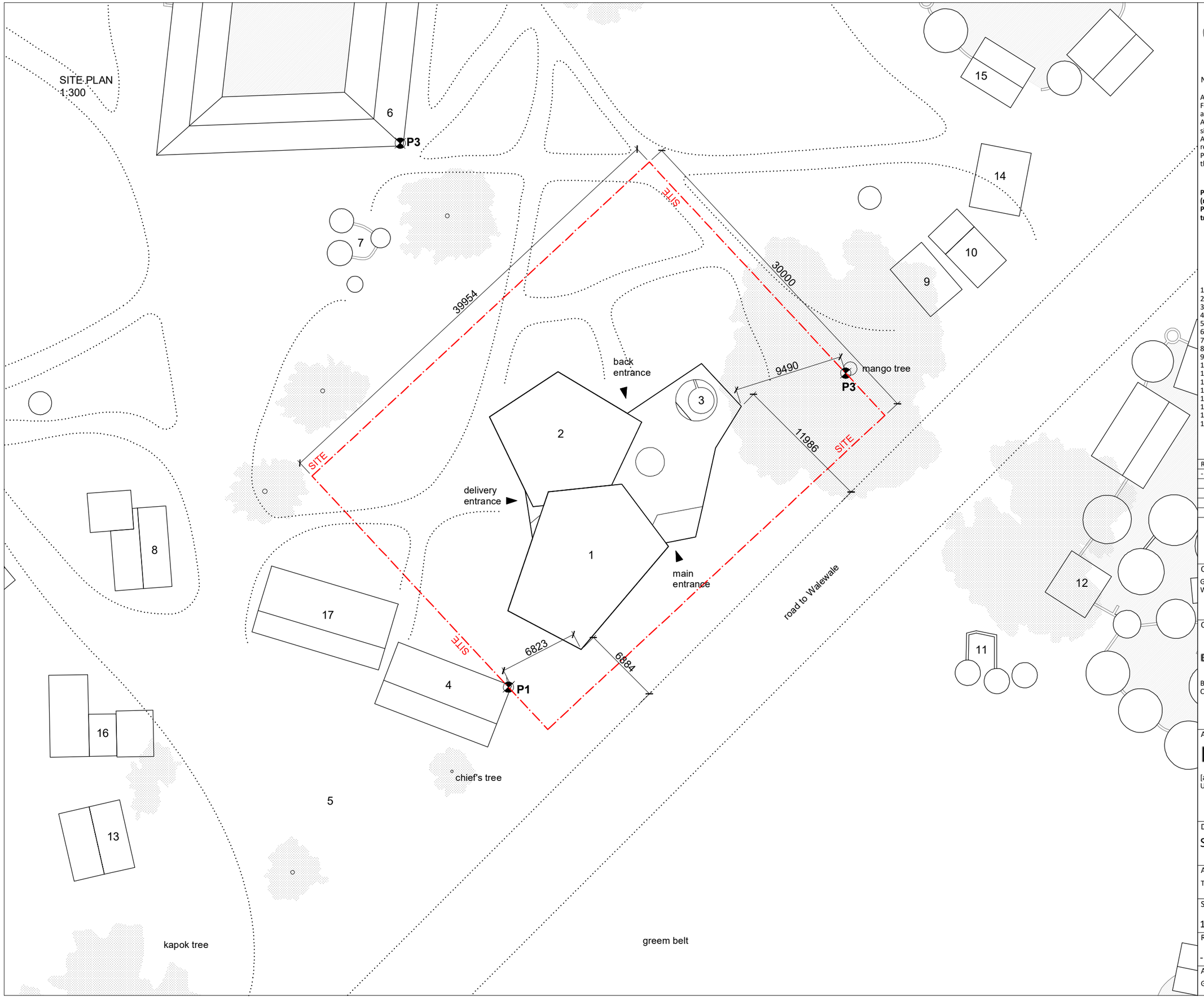
GUABULIGA MARKET

erection of the steel load-bearing structure Jan - May 2019

SITE PLAN
1:300



NOTES

All units in Metric system
For any changes or modifications consult the author!
All dimensions to be compared to on-site situation
All points should be measured at the same relative height
Plan of surroundings might not fully represent the current status of site

P1, P2 - corner of existing buildings' wall (not the roof)
P3 - middle point on the trunk of mango tree

1 - market unit 1
2 - market unit 2
3 - standpipe area
4 - tailor's shop
5 - current market, village square
6 - family compound
7 - animal hut
8 - milling facility
9 - shop
10 - shop
11 - animal hut
12 - family compound
13 - waterboard centre
14 - pavillion
15 - family compound
16 - mechanics' workshop
17 - commercial space

REV.	DATE	NOTE
-		

OBJECT
Guabuliga market
West Mamprusi, Northern Region, Ghana

CLIENT
BRAVE AURORA
Brave Aurora NGO
Chief Salifu Mahama, Guabuliga

AUTHOR / ARHITECT
[a]FA IOA INSTITUTE OF ARCHITECTURE di:'angewandte
[applied] Foreign Affairs Lab
University of Applied Arts Vienna

DRAWING
Site plan

AUTHOR
Toms Kampars

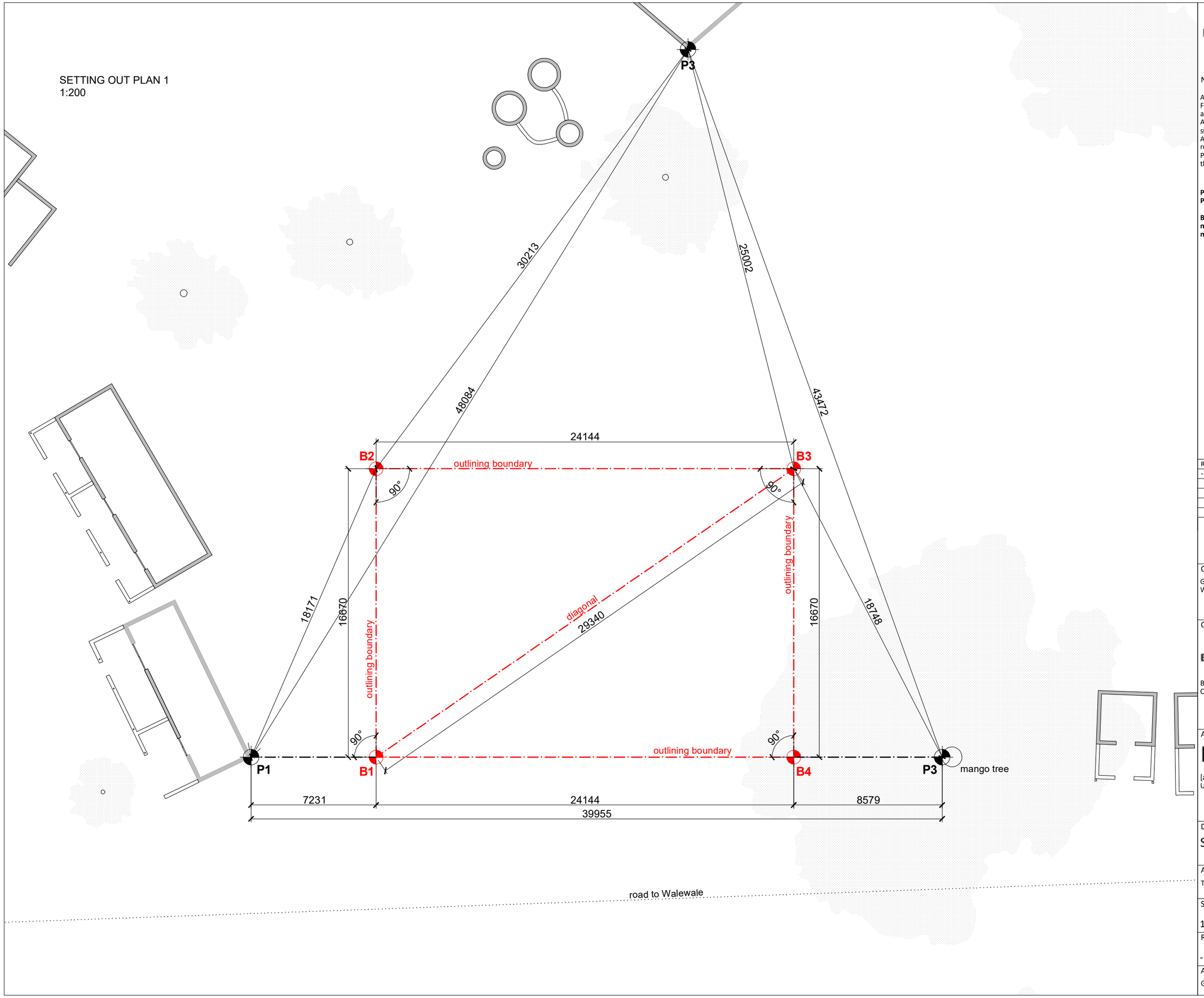
SCALE	DATE
1:300	2019 / 01 / 10

REVISION
-

ARCHIVE TITLE
GM_A102_site_plan

A3

SETTING OUT PLAN 1
1:200



NOTES

All units in Metric system
For any changes or modifications consult the author!
All dimensions to be compared to on-site situation
All points should be measured at the same relative height
Plan of surroundings might not fully represent the current status of site

P1, P2 - corner of existing buildings
P3 - middle point on the trunk of mango tree

Before setting out boundary box B1, B2, B3, B4 make sure it will not collide with the roots of mango tree

REV.	DATE	NOTE
-		

OBJECT
Guabuliga market
West Mamprusi, Northern Region, Ghana

CLIENT
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Chief Salifu Mahama, Guabuliga

AUTHOR / ARHITECT
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DRAWING
Setting out plan 1

AUTHOR
Toms Kampars

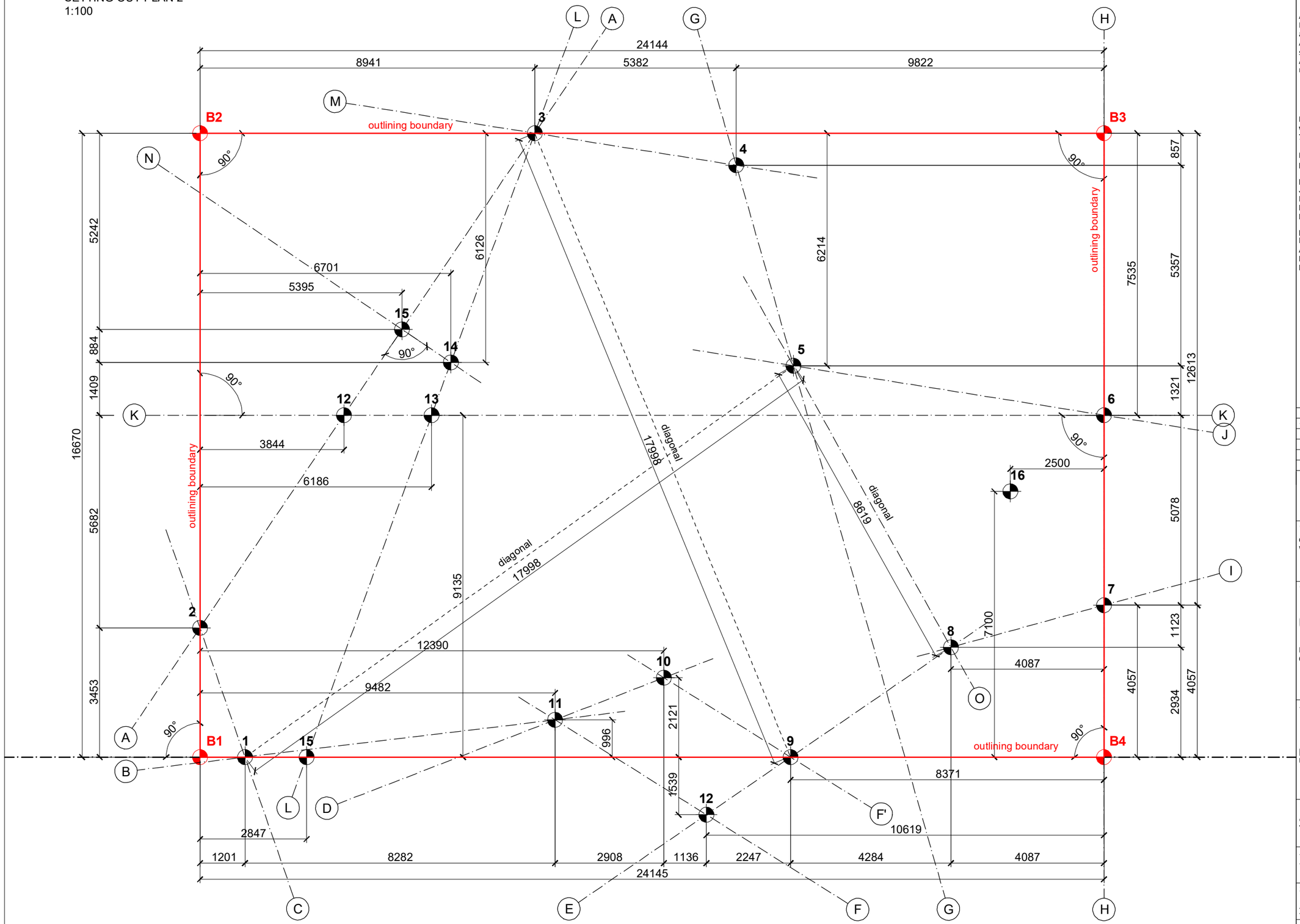
SCALE	DATE
1:200	2019 / 01 / 10

REVISION
-

ARCHIVE TITLE
GM_A103_setting_out_plan_1

A3

SETTING OUT PLAN 2
1:100



NOTES

All units in Metric system
For any changes or modifications consult the author!
All dimensions to be compared to on-site situation
All points should be measured at the same relative height

First points to be set out are the ones intersecting with the boundary box (in the following order): 7, 6, 9, 1, 2, 3

Note and strongly follow the parallel and perpendicular sets of axis:

parallel sets of axis:
J to M
F to F'
K to B2-B3
K to B1-B4

perpendicular sets of axis:
H to K
A to N
K to B1-B2
K to B3-B4

REV.	DATE	NOTE
-		

OBJECT
Guabuliga market
West Mamprusi, Northern Region, Ghana

CLIENT
Brave Aurora NGO
Chief Salifu Mahama, Guabuliga

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DRAWING
Setting out plan 2

AUTHOR
Toms Kampars

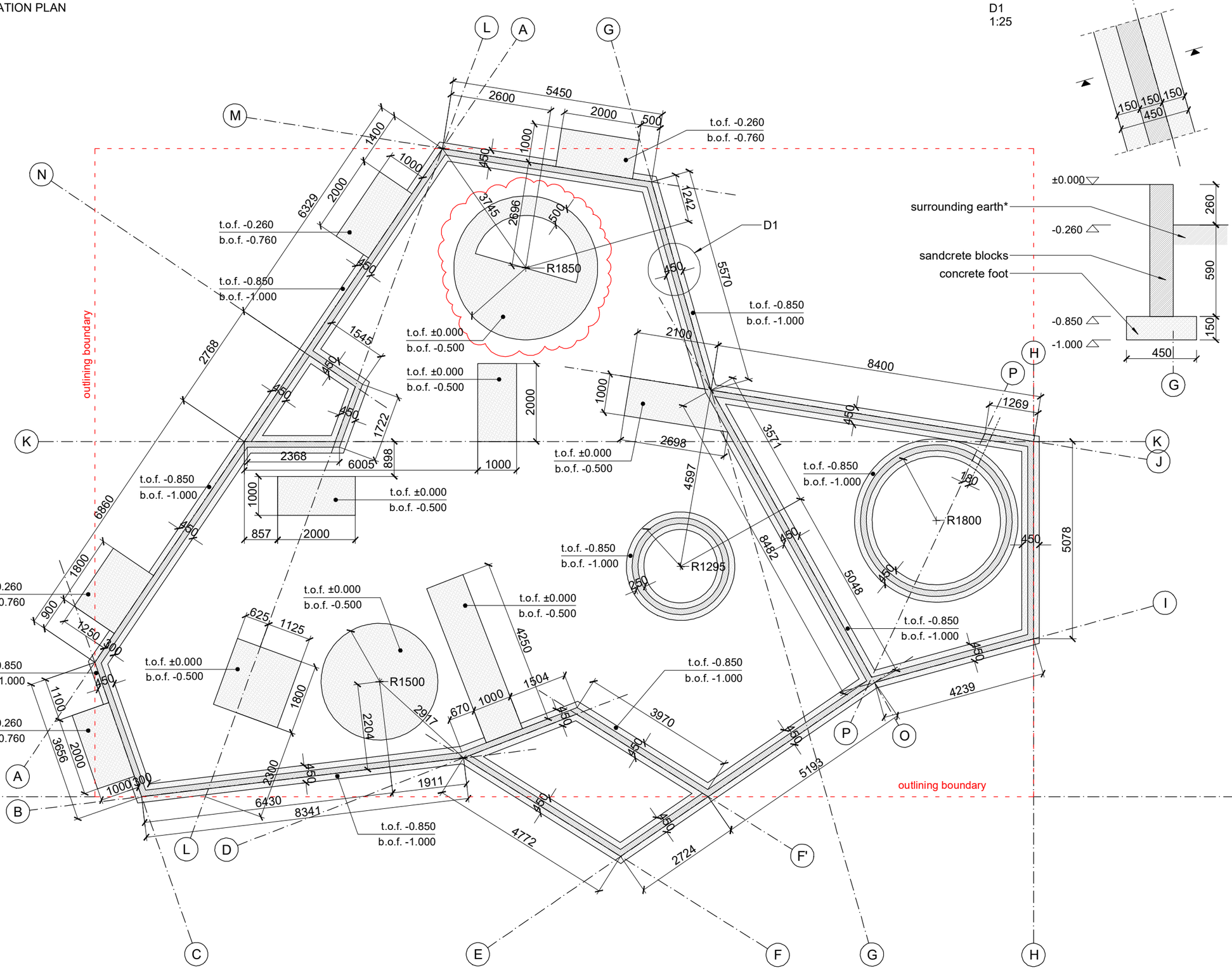
SCALE	DATE
1:100	2019 / 01 / 10

REVISION
-

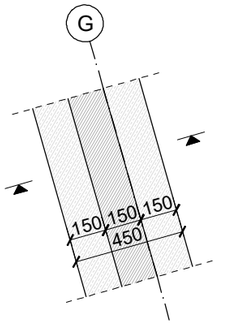
ARCHIVE TITLE
GM_A103_setting_out_plan_2

A3

FOUNDATION PLAN
1:100



D1
1:25



NOTES

All units in Metric system
For any changes or modifications consult the author!
All dimensions to be compared to on-site situation
All points should be measured at the same relative height
Lenght given in milimeters, heights - in meters.

Top surface of the foundations is taken as a height ±0.000 point

Further concrete floor layer on top - assumed 100 mm

Depending on the site conditions, the ±0.000 point should not be higher than 260 mm above surrounding earth layer

***Difference between top of foundations to surrounding earth level may vary but should not exceed 260 mm (height of final floorplate 360 mm)**

REV.	DATE	NOTE
A	2019 / 01 / 10	foundation depths
B	2019 / 01 / 27	foundation geometry
C	2019 / 02 / 07	foundation geometry

OBJECT
Guabuliga market
West Mamprusi, Northern Region, Ghana

CLIENT
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DRAWING
Foundation plan

AUTHOR
Toms Kampars

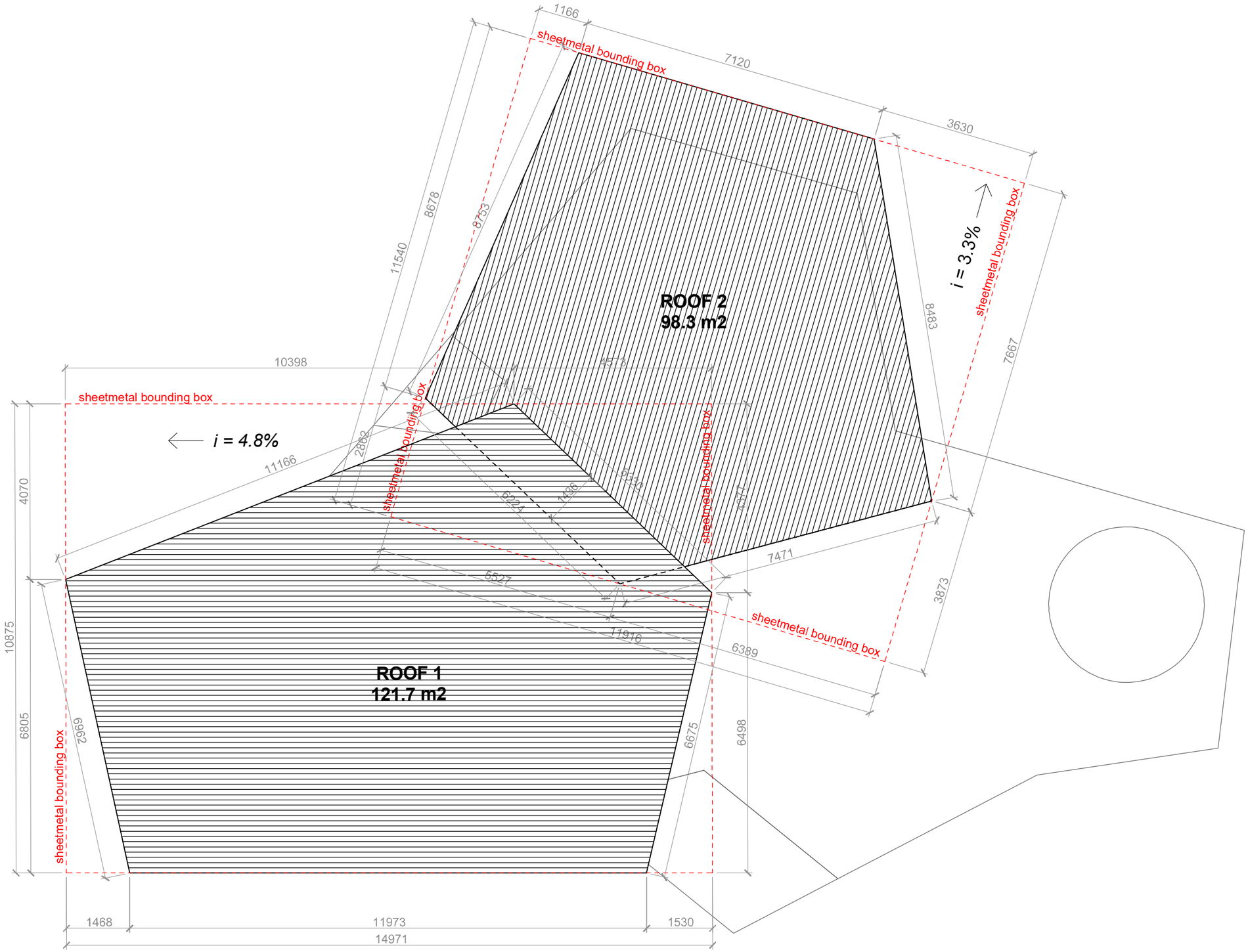
SCALE	DATE
1:100	2019 / 01 / 10

REVISION
C

ARCHIVE TITLE
GM_A104_foundation_plan

A3

ROOF PLAN
1:100



NOTES

All units in Metric system
For any changes or modifications consult the author!
All dimensions to be compared to on-site situation

LEGEND

sheetmetal cover
(lines indicate direction)

Sheetmetal total area:
220.0 m2

REV.	DATE	NOTE
A	2019 / 02 / 13	

OBJECT

Guabuliga market
West Mamprusi, Northern Region, Ghana

CLIENT

Brave Aurora NGO
Chief Salifu Mahama, Guabuliga

AUTHOR / ARHITECT

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University of Applied Arts Vienna

DRAWING

Roof Plan

AUTHOR

Magdalena Gorecka
Toms Kampars

SCALE	DATE
1:100	2019 / 02 / 13

REVISION

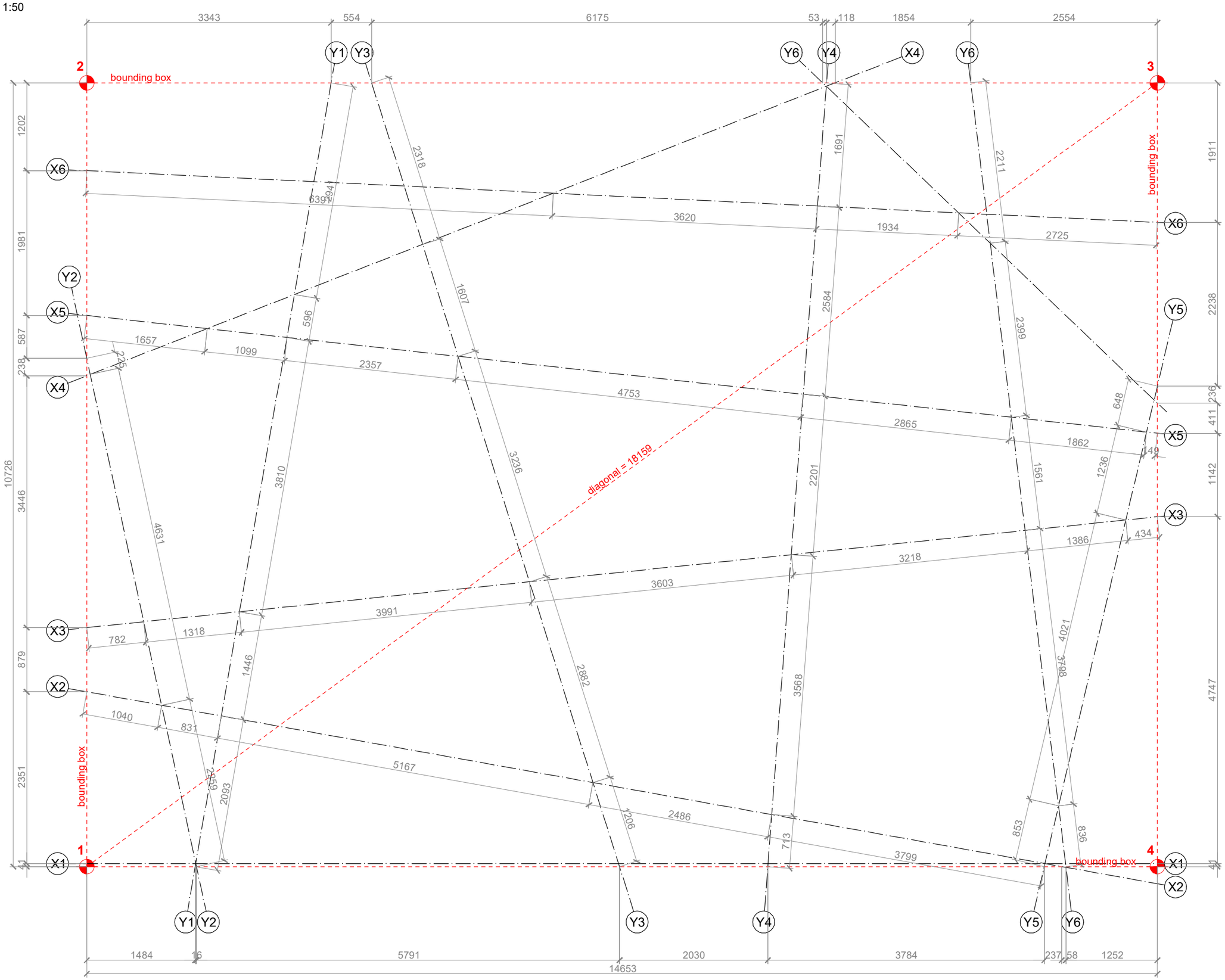
-

ARCHIVE TITLE

GM_A106_roof_plan

A3

ROOF-1 STRUCTURE AXIS PLAN
1:50



NOTES

All units in Metric system
For any changes or modifications consult the author!
All dimensions to be compared to on-site situation

REV.	DATE	NOTE
-		

OBJECT
Guabuliga market
West Mamprusi, Northern Region, Ghana

CLIENT
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University of Applied Arts Vienna

DRAWING
Roof -1
Structure Axis Plan

AUTHOR
Toms Kampars

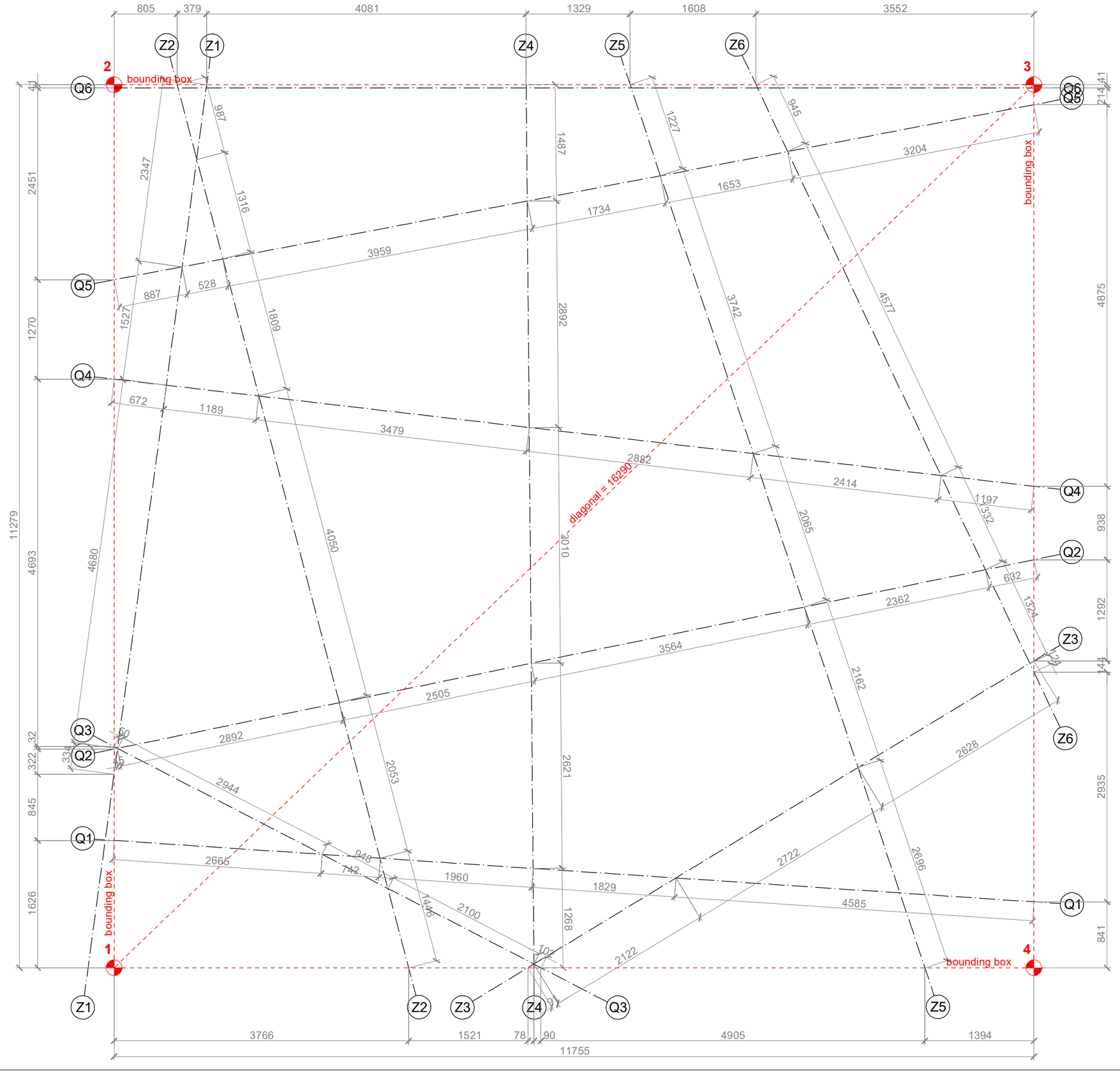
SCALE	DATE
1:50	2019 / 02 / 16

REVISION
-

ARCHIVE TITLE
GM_A421_roof1_structure_axis_plan

A3

ROOF-2 STRUCTURE AXIS PLAN
1:50



NOTES

All units in Metric system
Units in millimeters
For any changes or modifications consult the author!
All dimensions to be compared to on-site situation

REV.	DATE	NOTE
-		

OBJECT
Guabuliga market
West Mamprusi, Northern Region, Ghana

CLIENT
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DRAWING
Roof -2
Structure Axis Plan

AUTHOR
Toms Kampars

SCALE	DATE
1:50	2019 / 02 / 16

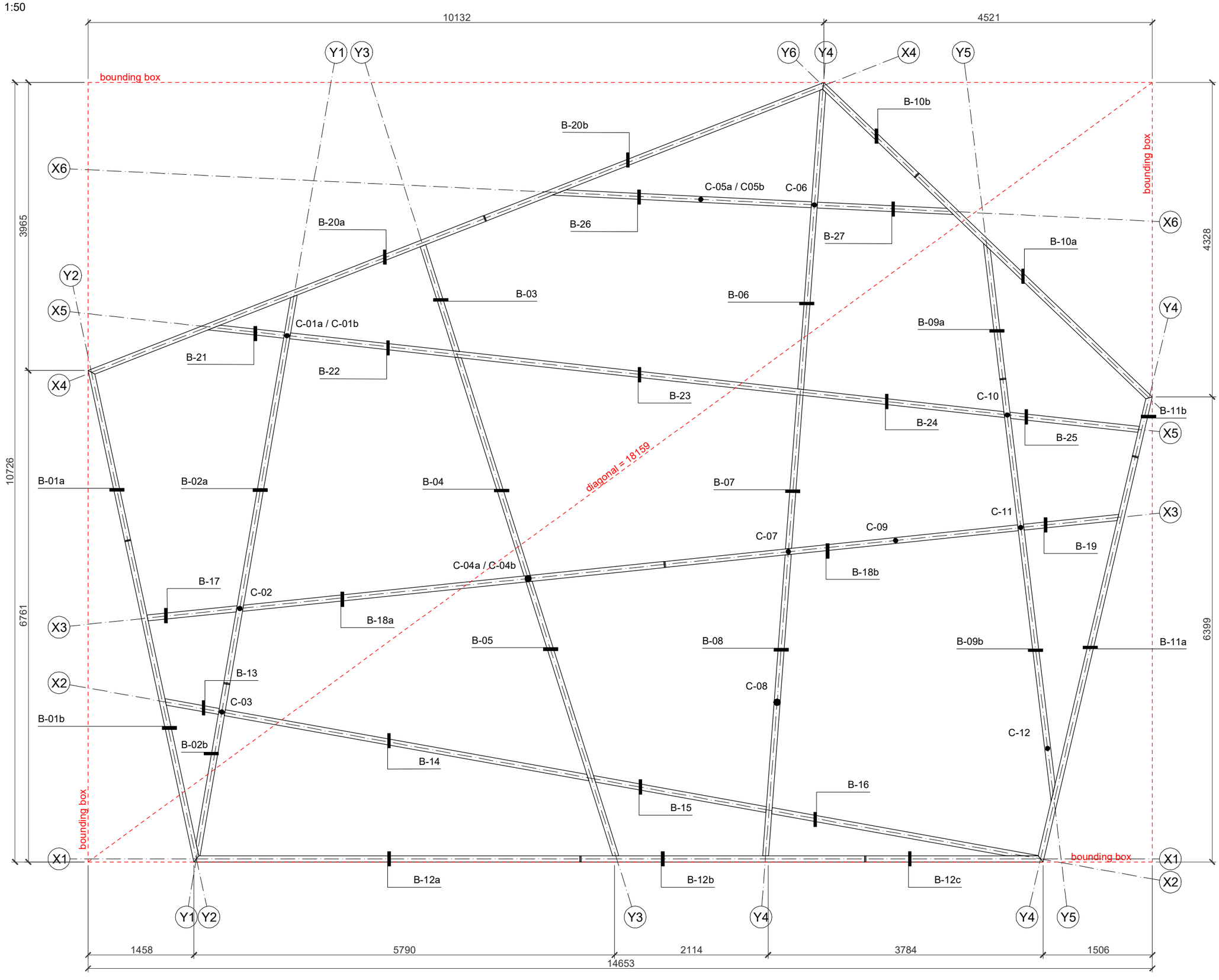
REVISION
-

ARCHIVE TITLE
GM_A421_roof2_structure_axis_plan

A3

11A

ROOF-1 STRUCTURE FABRICATION PLAN
1:50



NOTES

All units in Metric system
For any changes or modifications consult the author!
All dimensions to be compared to on-site situation

REV.	DATE	NOTE
A	2019 / 02 / 04	column positions added

OBJECT
Guabuliga market
West Mamprusi, Northern Region, Ghana

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DRAWING
Roof -1
Structure Fabrication Plan

AUTHOR
Toms Kampars

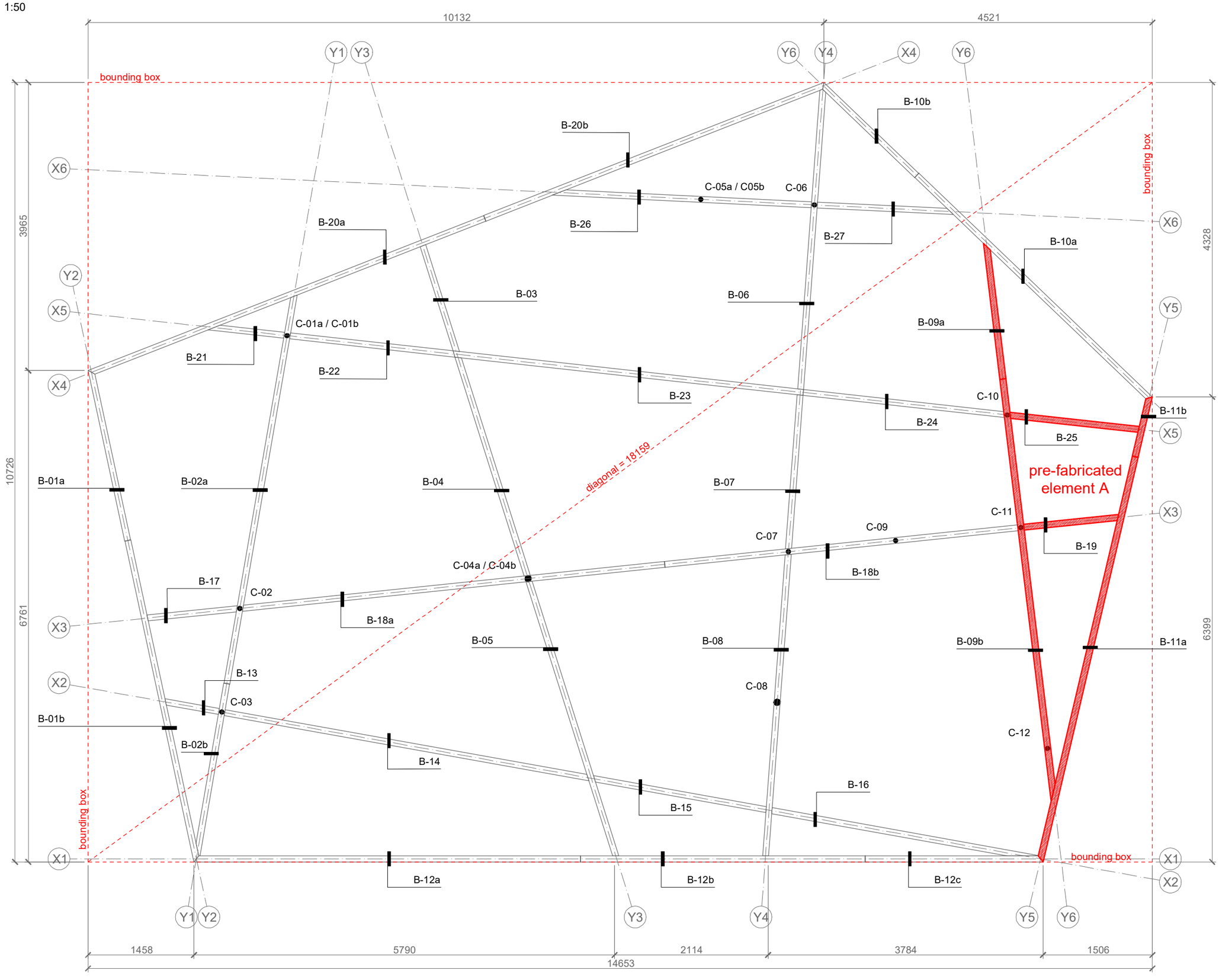
SCALE	DATE
1:50	2019 / 02 / 04

REVISION
A

ARCHIVE TITLE
GM_A422_roof1_structure_beams_plan

A3

ROOF-1 STRUCTURE FABRICATION PLAN
1:50



NOTES

All units in Metric system
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All dimensions to be compared to on-site situation

REV.	DATE	NOTE
A	2019 / 02 / 04	column positions added

OBJECT
Guabuliga market
West Mamprusi, Northern Region, Ghana

CLIENT
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DRAWING
Roof -1
Structure Fabrication Plan

AUTHOR
Toms Kampars

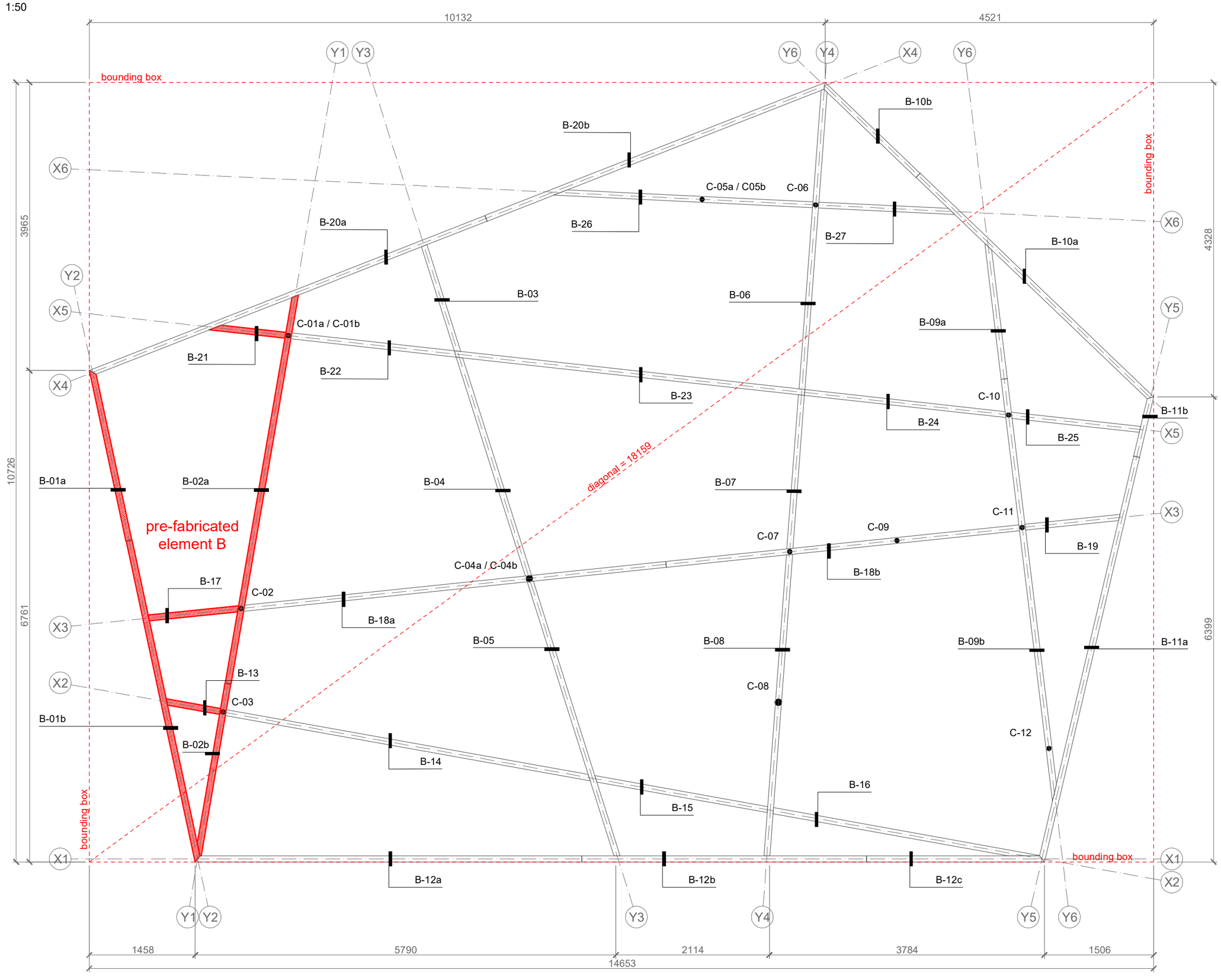
SCALE	DATE
1:50	2019 / 02 / 04

REVISION
A

ARCHIVE TITLE
GM_A422_roof1_structure_beams_plan

A3

ROOF-1 STRUCTURE FABRICATION PLAN
1:50



A3

NOTES

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All dimensions to be compared to on-site situation

REV.	DATE	NOTE
A	2019 / 02 / 04	column positions added

OBJECT
Guabuliga market
West Mamprusi, Northern Region, Ghana

CLIENT
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DRAWING
Roof -1
Structure Fabrication Plan

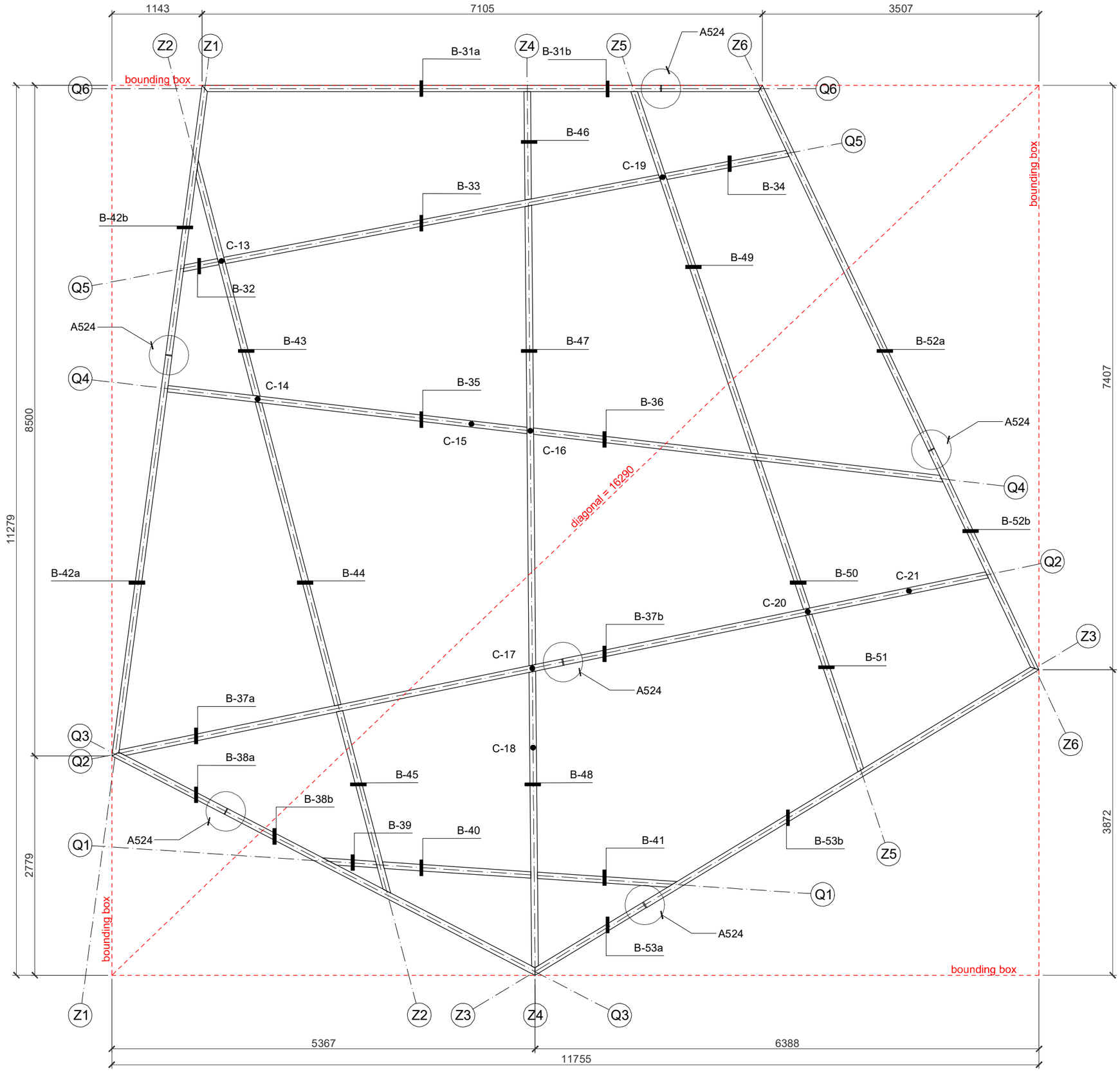
AUTHOR
Toms Kampars

SCALE	DATE
1:50	2019 / 02 / 04

REVISION
A

ARCHIVE TITLE
GM_A422_roof1_structure_beams_plan

ROOF-2 STRUCTURE FABRICATION PLAN
1:50



A3

NOTES

All units in Metric system
Units in millimeters
For any changes or modifications consult the author!
All dimensions to be compared to on-site situation

REV.	DATE	NOTE
-		

OBJECT
Guabuliga market
West Mamprusi, Northern Region, Ghana

CLIENT
BRAVE AURORA
Brave Aurora NGO
Chief Salifu Mahama, Guabuliga

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University of Applied Arts Vienna

DRAWING
Roof -2
Structure Fabrication Plan

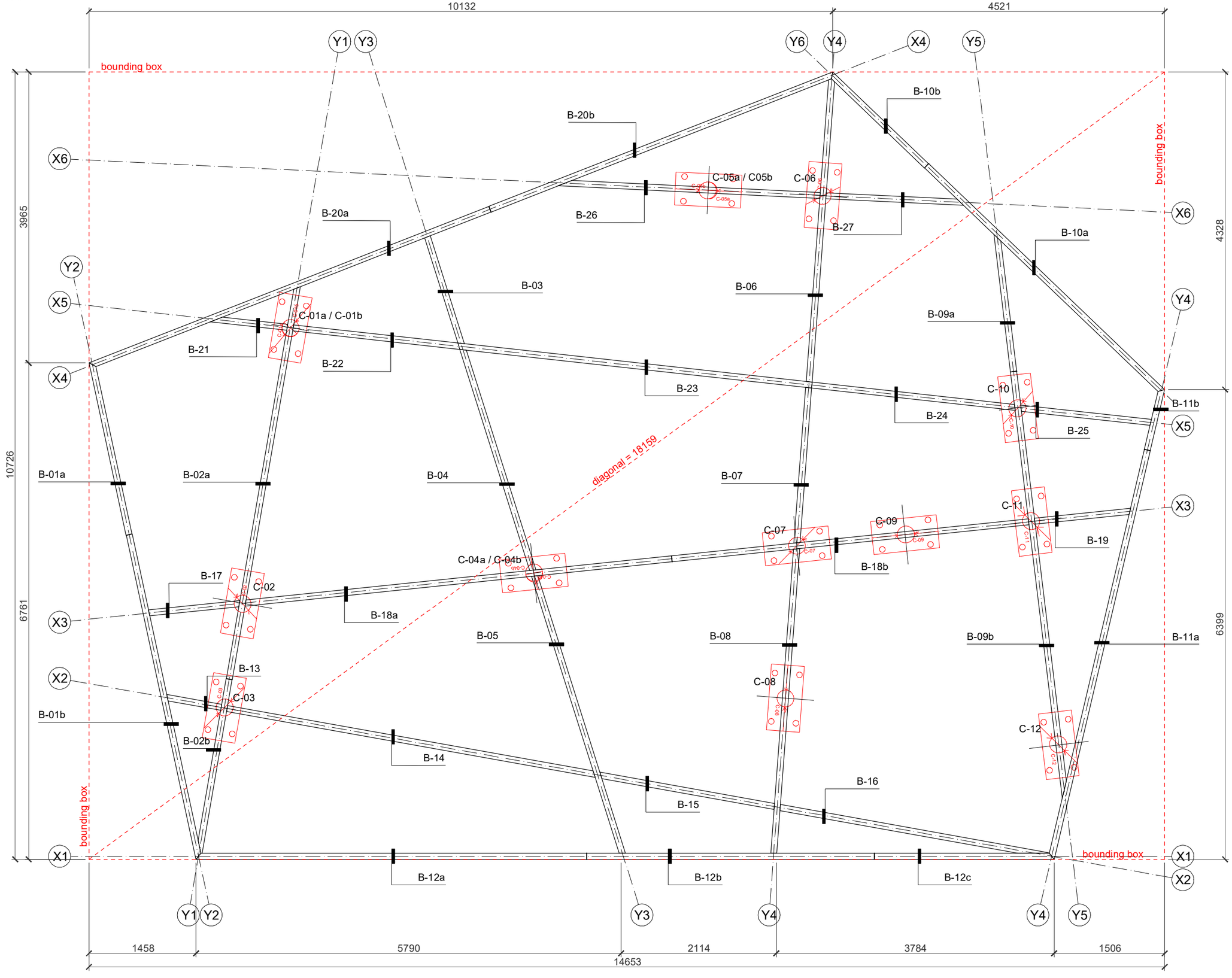
AUTHOR
Toms Kampars

SCALE	DATE
1:50	2019 / 02 / 07

REVISION
-

ARCHIVE TITLE
GM_A422_roof2_structure_plan

ROOF-1 Roof -1
Position of steel plates
1:50



NOTES

All units in Metric system
For any changes or modifications consult the author!
All dimensions to be compared to on-site situation

PLATE DIMENSIONS:
length: 300 mm
width: 150 mm
thickness: 9 mm
12 plates connected to beams in total

REV.	DATE	NOTE
A	190503	updating plate directions
B	190503	plate template added

OBJECT
Guabuliga market
West Mamprusi, Northern Region, Ghana

CLIENT
Brave Aurora NGO
Chief Salifu Mahama, Guabuliga

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University of Applied Arts Vienna

DRAWING
Roof -1
Position of steel plates

AUTHOR
Toms Kampars
Magdalena Gorecka

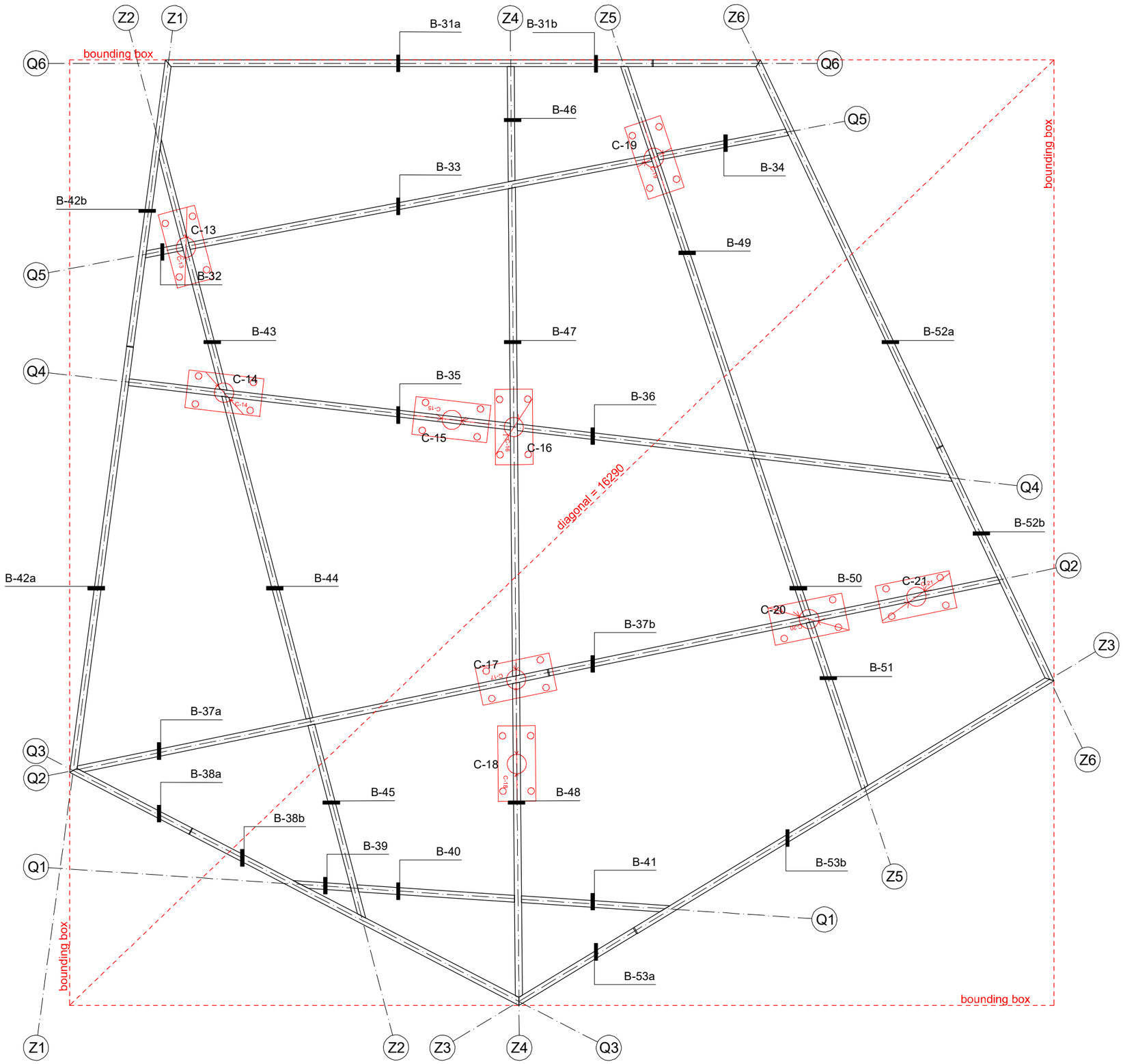
SCALE	DATE
1:50	2019 / 02 / 04

REVISION
B

ARCHIVE TITLE
GM_A423_roof1_structure_plates_plan

A3

ROOF-2 STRUCTURE PLATES PLAN
1:50



NOTES

All units in Metric system
Units in millimeters
For any changes or modifications consult the author!
All dimensions to be compared to on-site situation

PLATE DIMENSIONS:
length: 300 mm
width: 150 mm
thickness: 6 mm
9 plates connected to beams in total

REV.	DATE	NOTE
A	190503	updating plate directions
B	190503	plate template added

OBJECT
Guabuliga market
West Mamprusi, Northern Region, Ghana

CLIENT
Brave Aurora NGO
Chief Salifu Mahama, Guabuliga

AUTHOR / ARCHITECT
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DRAWING
Roof -2
Structure Plates Plan

AUTHOR
Toms Kampars

SCALE	DATE
1:50	2019 / 02 / 07

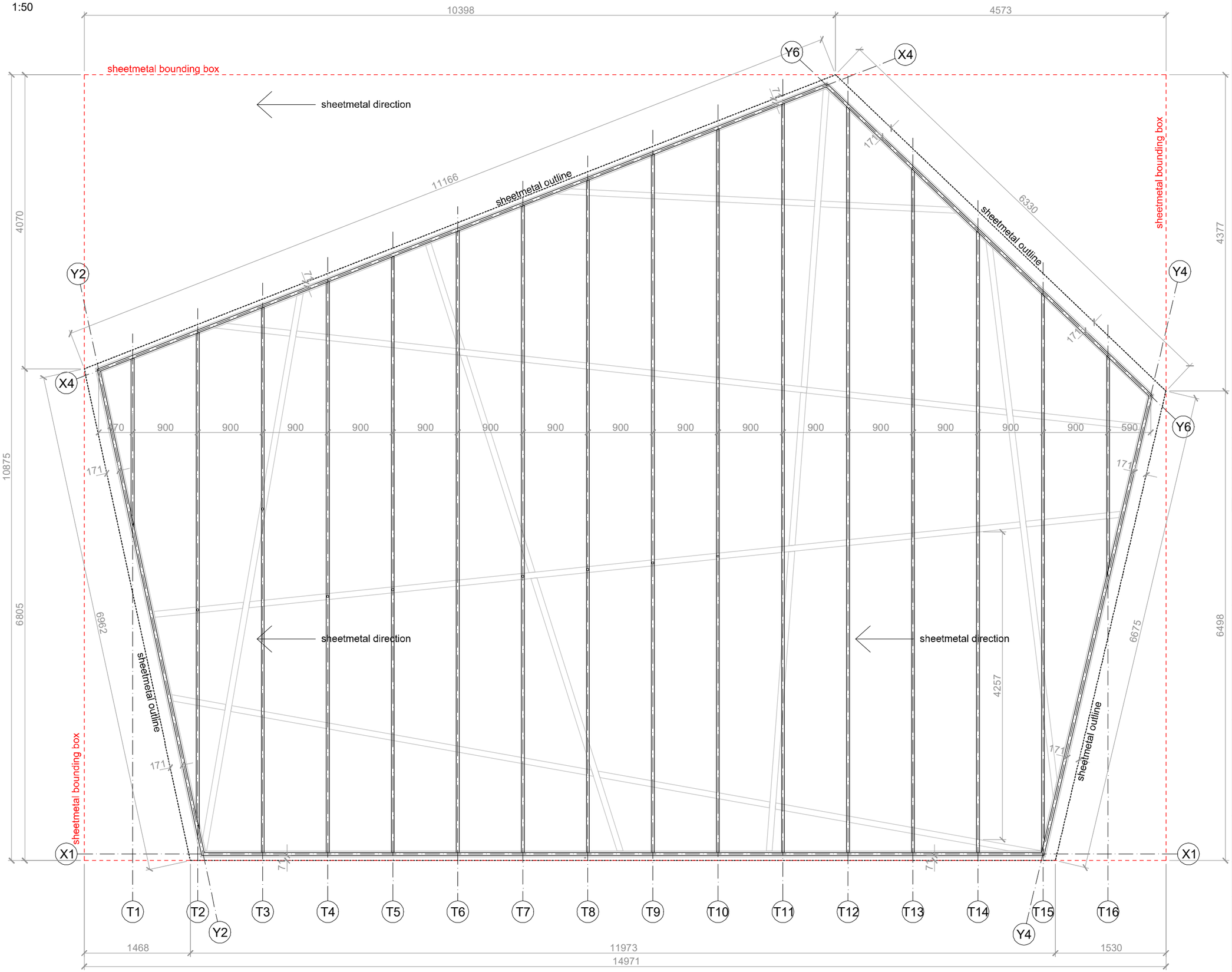
REVISION
B

ARCHIVE TITLE
GM_A423_roof2_structure_plates_plan

A3

POLENERGIA

ROOF-1 STRUCTURE FABRICATION PLAN
1:50



NOTES

All units in Metric system
For any changes or modifications consult the author!
All dimensions to be compared to on-site situation

LEGEND

IPE160 structural I-beams

sheetmetal substructure
(steel profile to be confirmed)

Sheetmetal total area:
121,7 m2

REV.	DATE	NOTE
A	2019 / 02 / 13	

OBJECT
Guabuliga market
West Mamprusi, Northern Region, Ghana

CLIENT
Brave Aurora NGO
Chief Salifu Mahama, Guabuliga

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DRAWING
Roof -1
Structure Fabrication Plan

AUTHOR
Magdalena Gorecka
Toms Kampars

SCALE
1:50

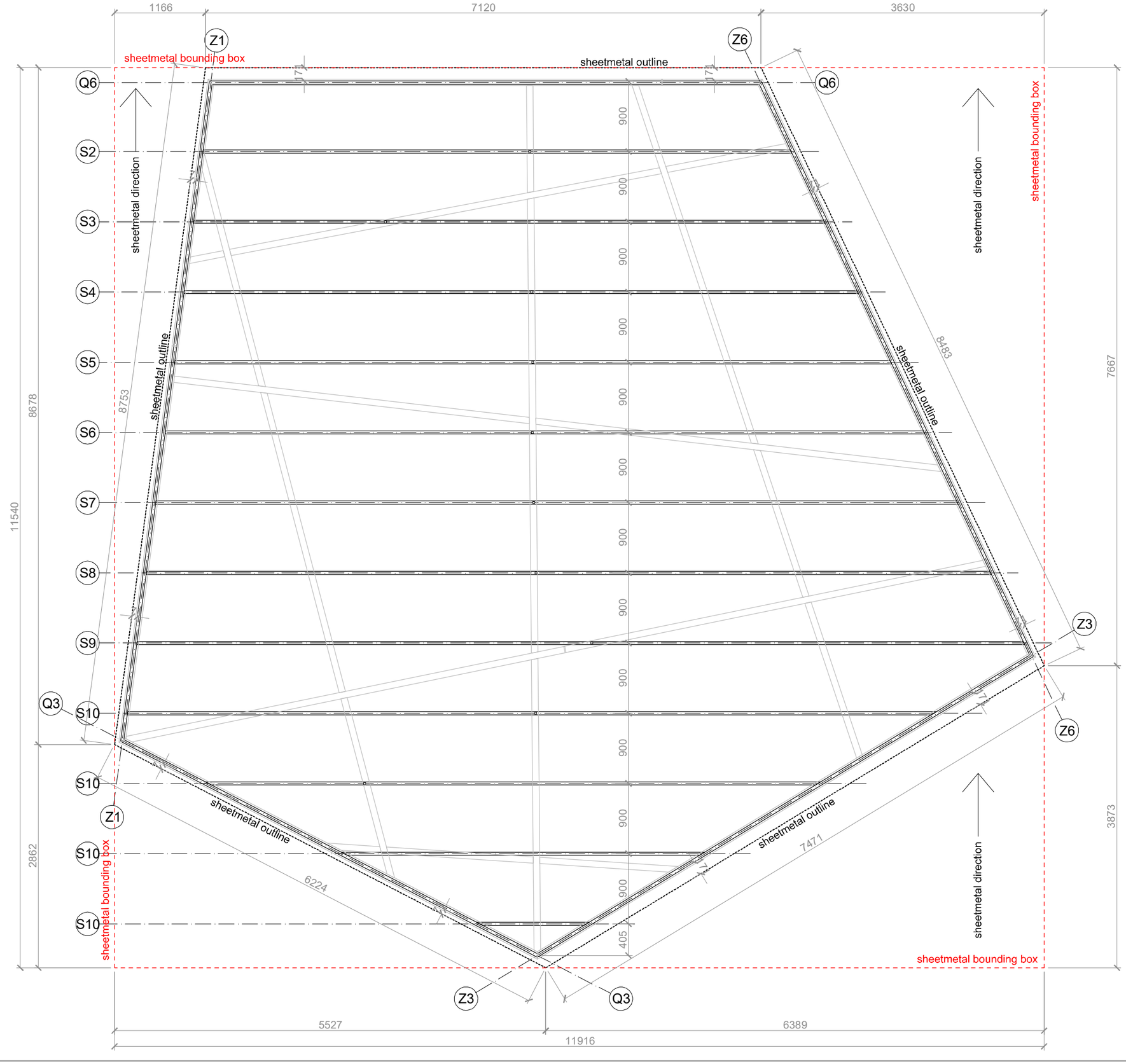
DATE
2019 / 02 / 08

REVISION
A

ARCHIVE TITLE
GM_A424_roof1_structure_fabrication_plan

A3

ROOF-2 STRUCTURE FABRICATION PLAN
1:50



A3

NOTES

All units in Metric system
For any changes or modifications consult the author!
All dimensions to be compared to on-site situation

LEGEND

IPE160 structural I-beams

sheetmetal substructure
(steel profile to be confirmed)

Sheetmetal total area:
98,3 m2

REV.	DATE	NOTE
A	2019 / 02 / 13	

OBJECT
Guabuliga market
West Mamprusi, Northern Region, Ghana

CLIENT
Brave Aurora NGO
Chief Salifu Mahama, Guabuliga

AUTHOR / ARHITECT
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University of Applied Arts Vienna

DRAWING
Roof -2
Structure Fabrication Plan

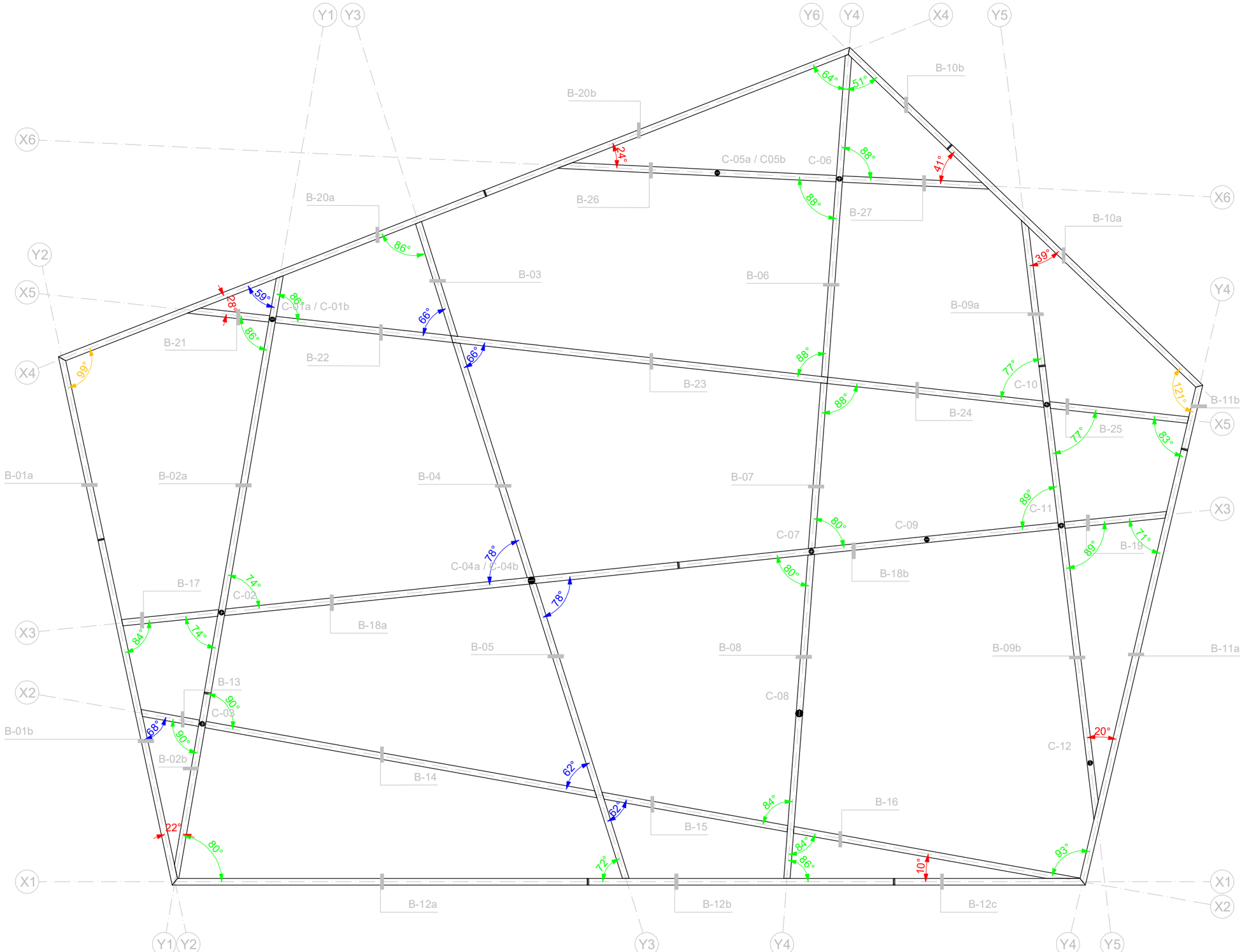
AUTHOR
Magdalena Gorecka
Toms Kampars

SCALE	DATE
1:50	2019 / 02 / 08

REVISION
A

ARCHIVE TITLE
GM_A424_roof2_structure_fabrication_plan

ROOF-1 STRUCTURE FABRICATION PLAN
1:50



A3

NOTES

All units in Metric system
For any changes or modifications consult the author!
All dimensions to be compared to on-site situation

REV.	DATE	NOTE
-		

OBJECT
Guabuliga market
West Mamprusi, Northern Region, Ghana

CLIENT
BRAVE AURORA
Brave Aurora NGO
Chief Salifu Mahama, Guabuliga

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University of Applied Arts Vienna

DRAWING
Roof -1
Structure Fabrication Plan

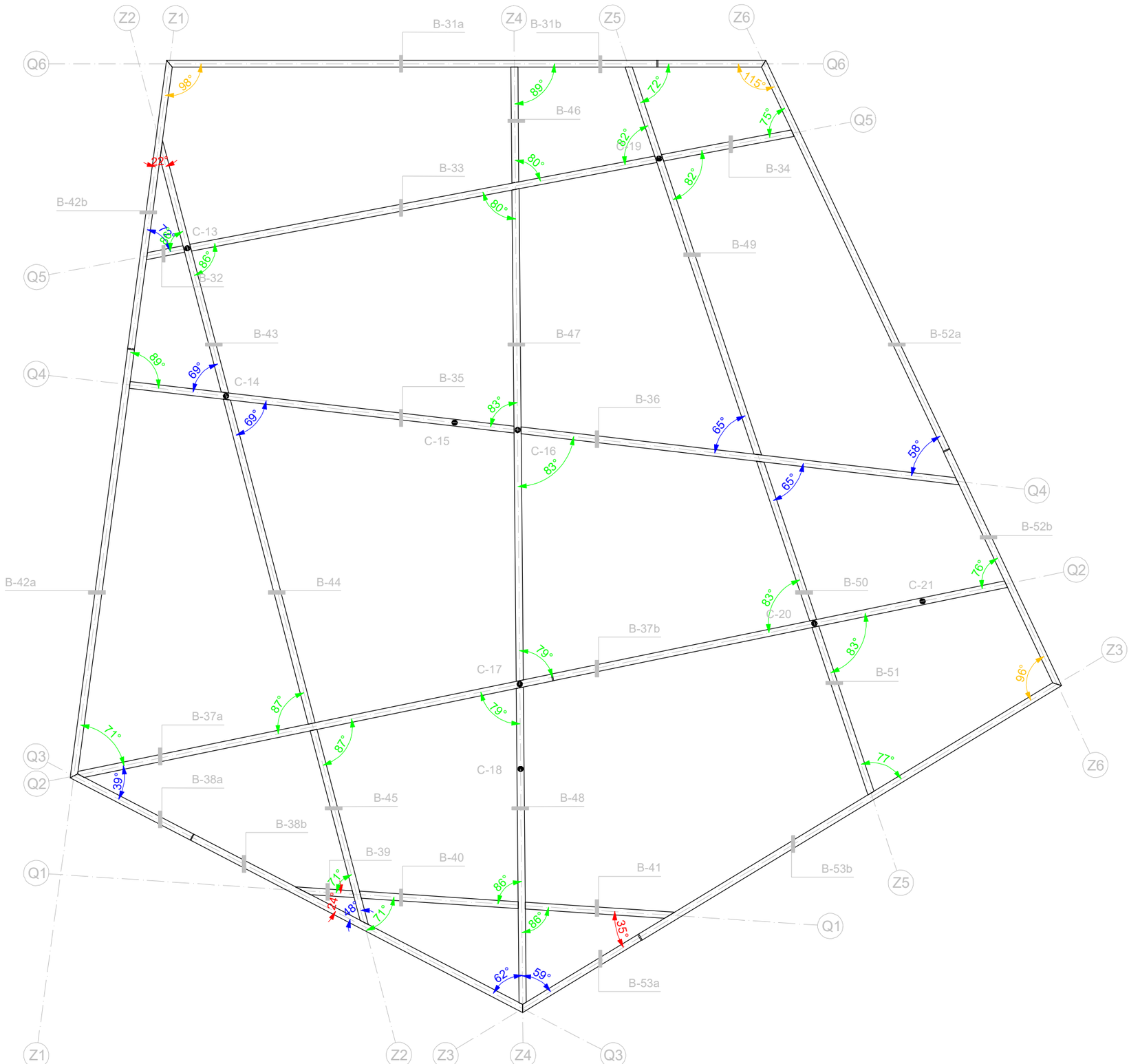
AUTHOR
Toms Kampars

SCALE	DATE
1:50	2019 / 01 / 26

REVISION
-

ARCHIVE TITLE
GM_A422_roof1_structure_plan

ROOF-2 STRUCTURE ANLGE PLAN
1:50



A3

NOTES

All units in Metric system
Units in millimeters
For any changes or modifications consult the author!
All dimensions to be compared to on-site situation

REV.	DATE	NOTE
-		

OBJECT
Guabuliga market
West Mamprusi, Northern Region, Ghana

CLIENT
Brave Aurora NGO
Chief Salifu Mahama, Guabuliga

AUTHOR / ARCHITECT
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University of Applied Arts Vienna

DRAWING
Roof -2
Structure Angle Plan

AUTHOR
Toms Kampars

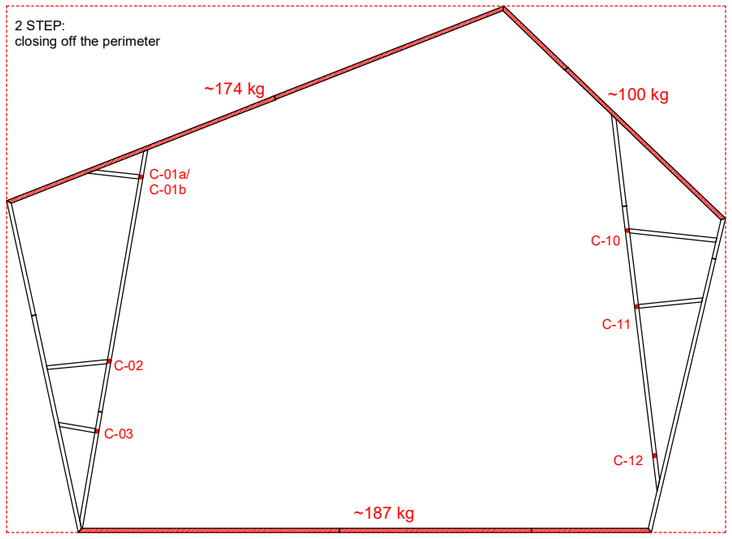
SCALE	DATE
1:50	2019 / 02 / 15

REVISION
-

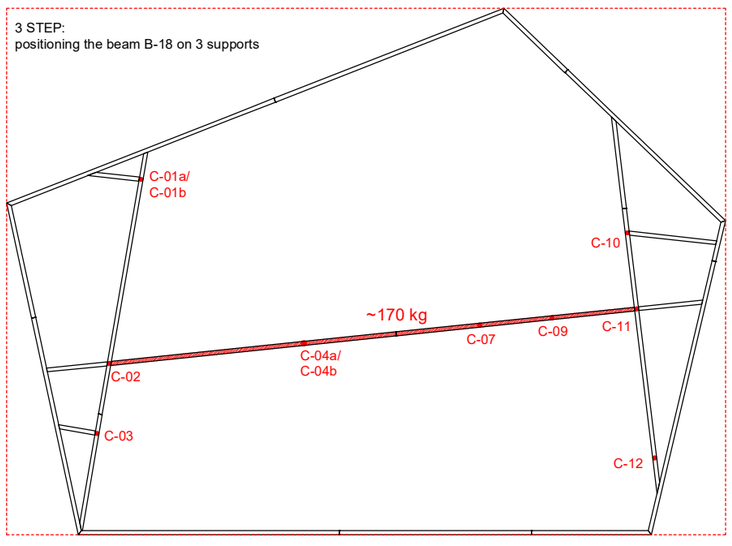
ARCHIVE TITLE
GM_A425_roof2_angle_plan

1 STEP:
positioning the two pre-fabricated triangles each on 3 supports

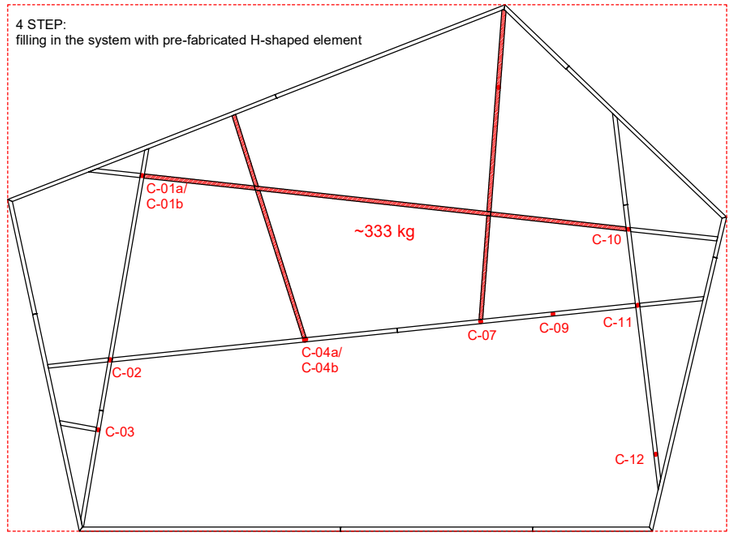
2 STEP:
closing off the perimeter



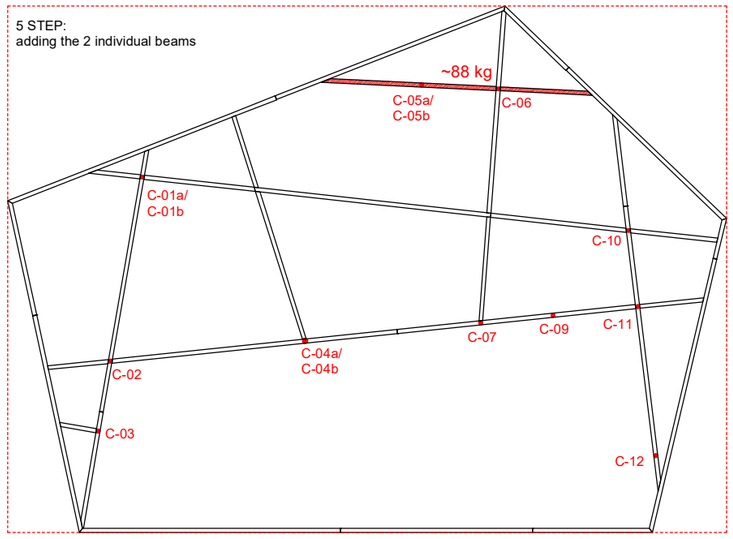
3 STEP:
positioning the beam B-18 on 3 supports



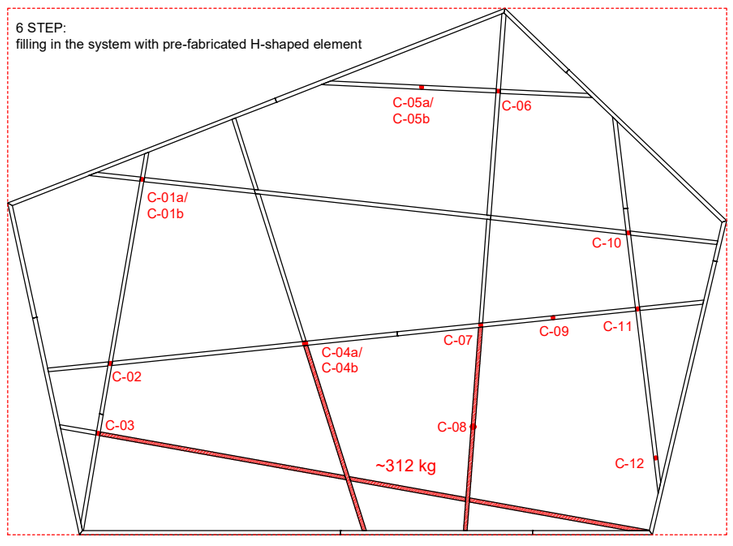
4 STEP:
filling in the system with pre-fabricated H-shaped element



5 STEP:
adding the 2 individual beams



6 STEP:
filling in the system with pre-fabricated H-shaped element



NOTES

All units in Metric system
For any changes or modifications consult the author!
All dimensions to be compared to on-site situation

REV.	DATE	NOTE
-		

OBJECT

Guabuliga market
West Mamprusi, Northern Region, Ghana

CLIENT

Brave Aurora NGO
Chief Salifu Mahama, Guabuliga

AUTHOR / ARCHITECT

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University of Applied Arts Vienna

DRAWING

Roof-1 Structure Fabrication Sequence

AUTHOR

Toms Kampars

SCALE	DATE
1:125	2019 / 04 / 24

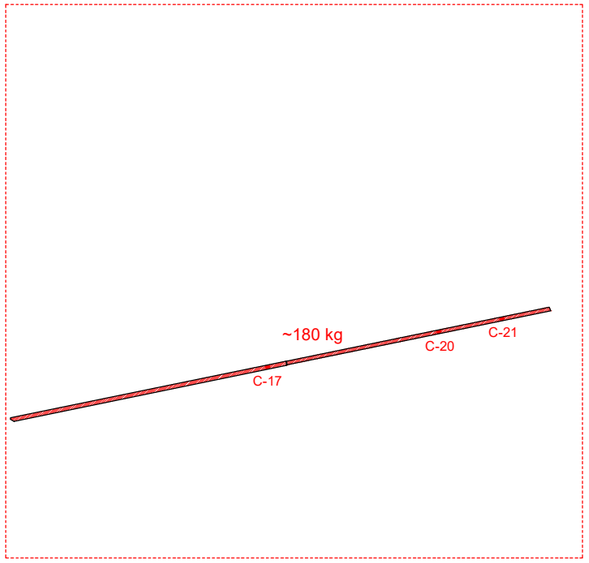
REVISION

-

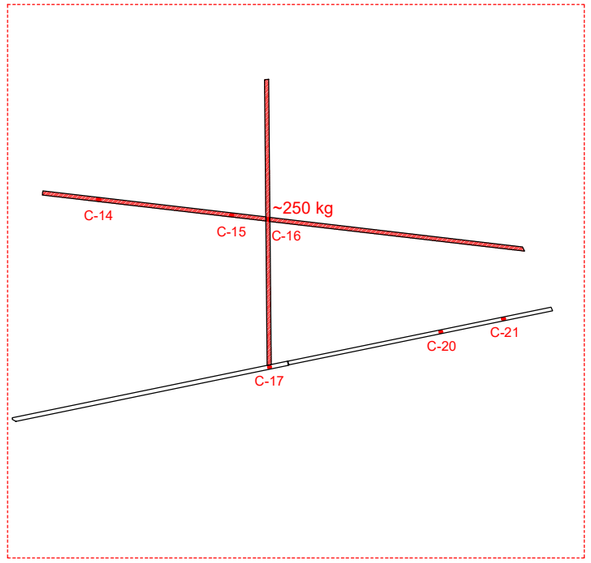
ARCHIVE TITLE

GM_A426_roof1_fabrication_sequence_plan

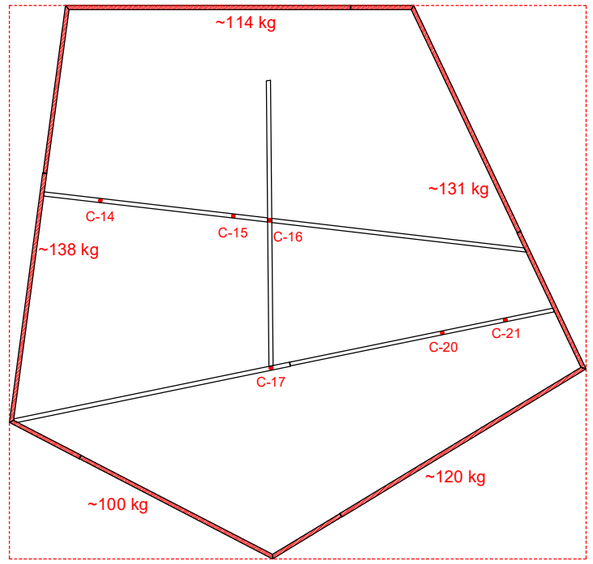
A3



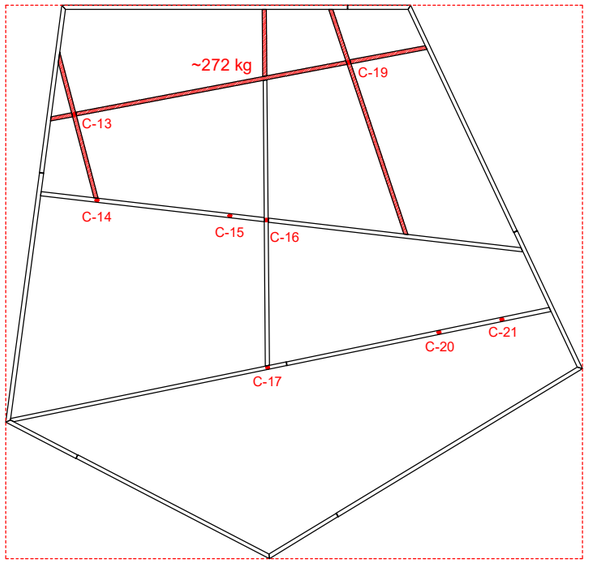
1 STEP:
positioning of longest and most supported beam B-37 on 3 supports C-17, C-20 and C-21



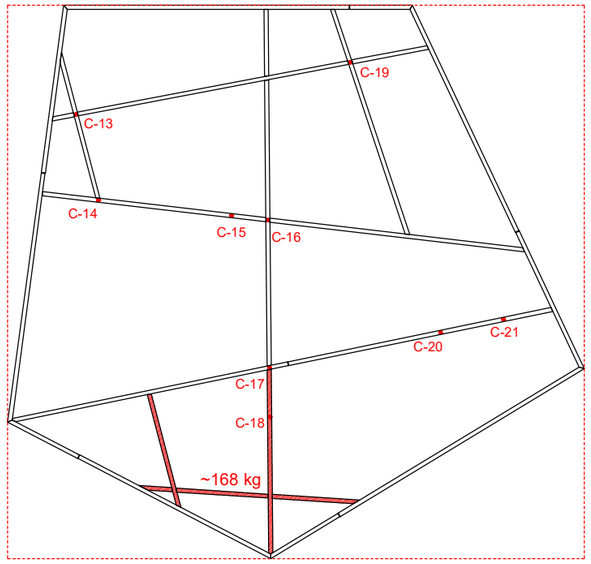
2 STEP:
positioning of well supported pre-fabricated cross element on 3 supports C-14, C-15 and C-16



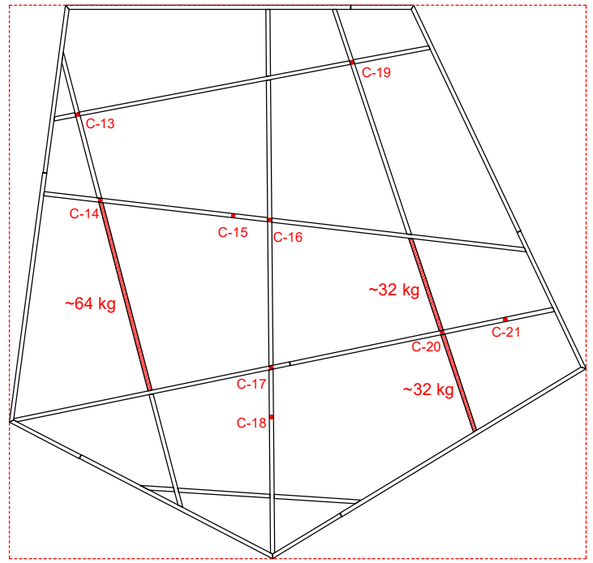
3 STEP:
closing the perimeter with all 5 perimeter beams



4 STEP:
filling in the system with prefabricated element positioned on supports C-13 and C-19



5 STEP:
filling in the system with prefabricated element positioned on support C-18



6 STEP:
filling in the system with left-over beams that have no direct support underneath them

A3

NOTES

All units in Metric system
Units in millimeters
For any changes or modifications consult the author!
All dimensions to be compared to on-site situation

REV.	DATE	NOTE
-		

OBJECT

Guabuliga market
West Mamprusi, Northern Region, Ghana

CLIENT

Brave Aurora NGO
Chief Salifu Mahama, Guabuliga

AUTHOR / ARCHITECT

[applied] Foreign Affairs Lab
University of Applied Arts Vienna

DRAWING

Roof -2 Structure Fabrication Sequence

AUTHOR

Toms Kampars

SCALE	DATE
1:125	2019 / 04 / 24

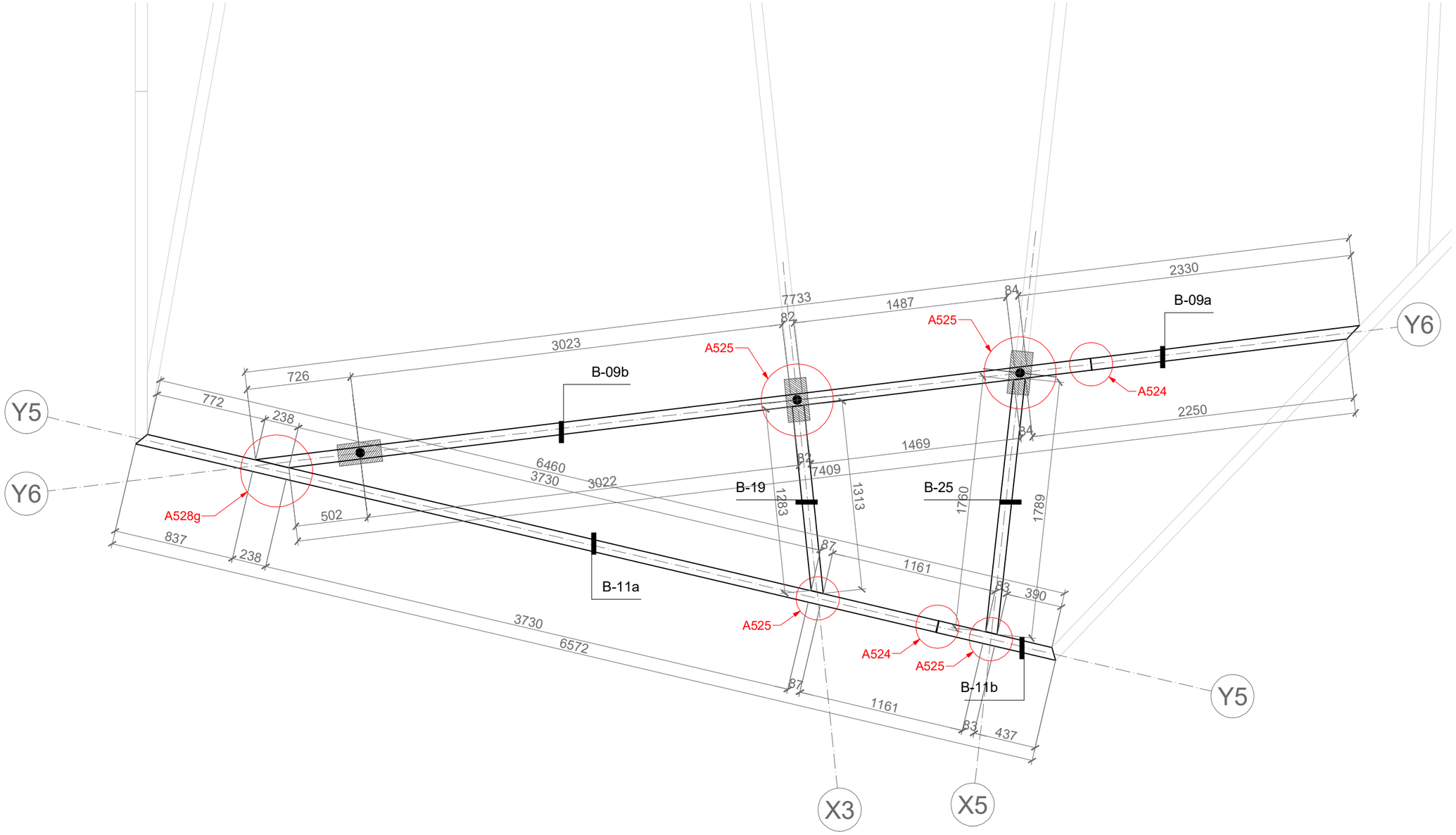
REVISION

-

ARCHIVE TITLE

GM_A426_roof2_fabrication_sequence_plan

Roof -1
Pre-fabricated element A



NOTES

All units in Metric system
For any changes or modifications consult the author!
All dimensions to be compared to on-site situation

REV.	DATE	NOTE
-	-	

OBJECT
Guabuliga market
West Mamprusi, Northern Region, Ghana

CLIENT
Brave Aurora NGO
Chief Salifu Mahama, Guabuliga

AUTHOR / ARCHITECT
[applied] Foreign Affairs Lab
University of Applied Arts Vienna

DRAWING
Roof -1
Pre-fabricated element A

AUTHOR
Toms Kampars

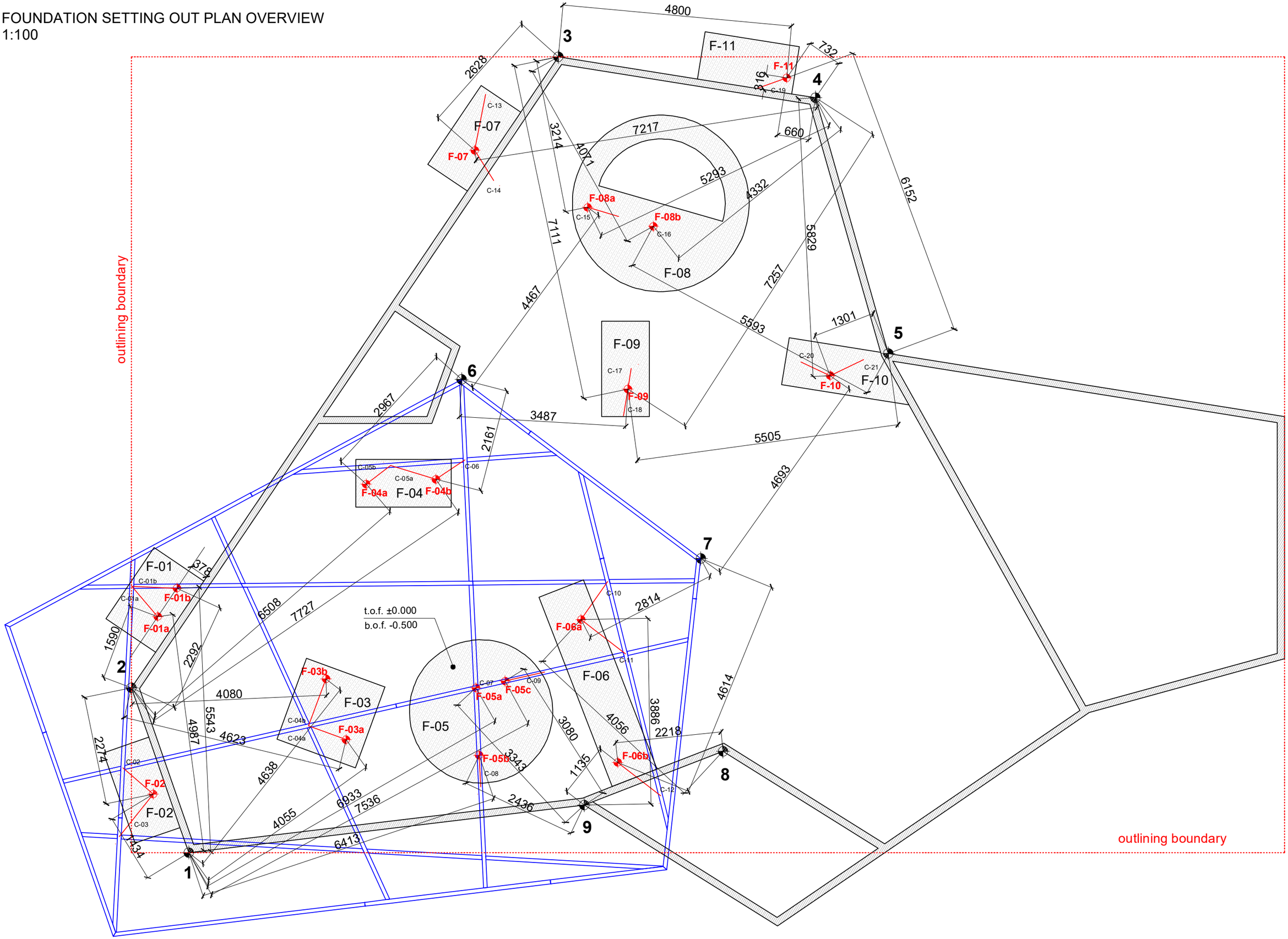
SCALE	DATE
1:30	2019 / 02 / 18

REVISION
-

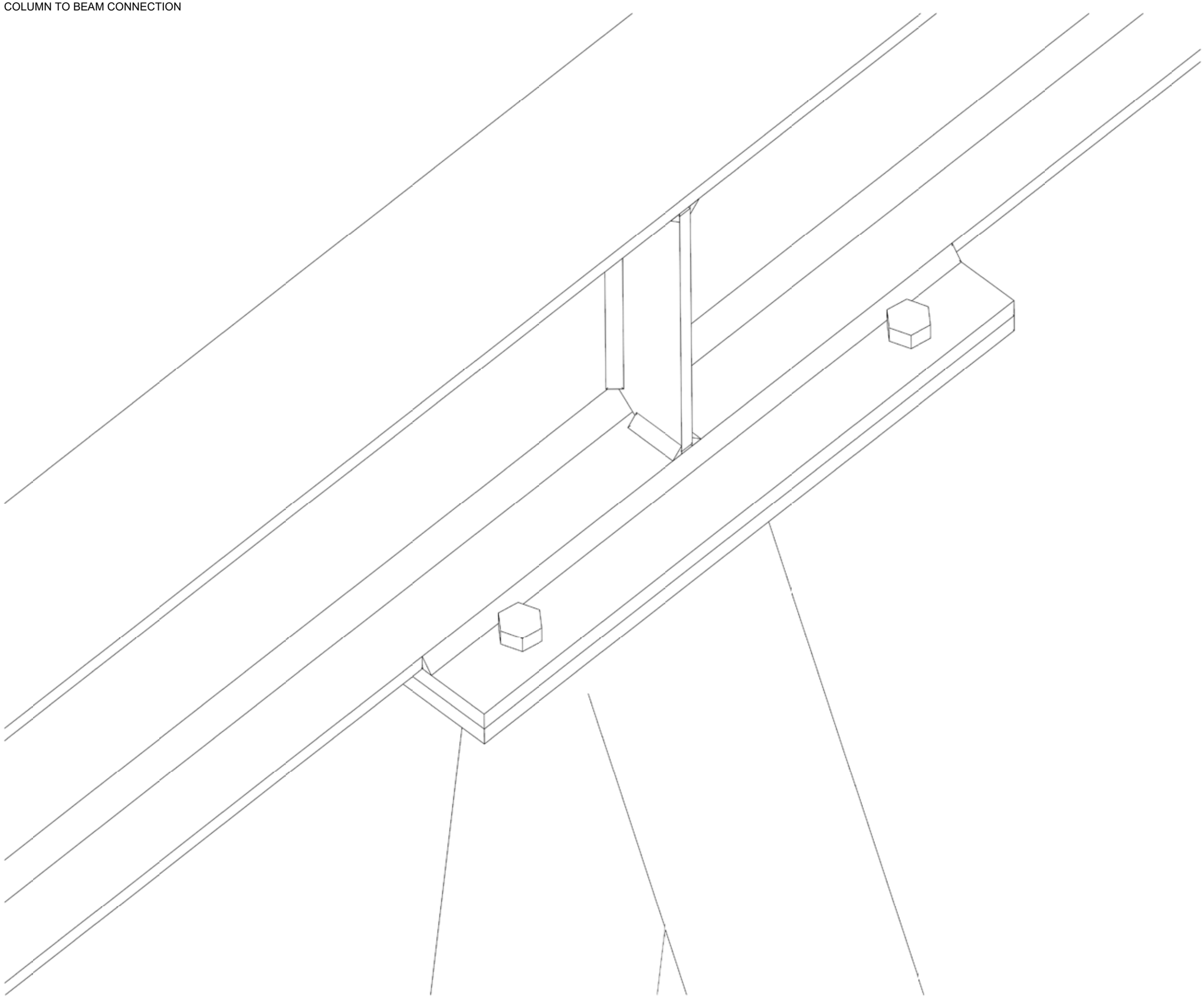
ARCHIVE TITLE
GM_A431_roof1_pre-fabricated_element_A

A3

FOUNDATION SETTING OUT PLAN OVERVIEW
1:100



COLUMN TO BEAM CONNECTION



NOTES

All units in Metric system
Units given in millimeters
For any changes or modifications consult the author!
All dimensions to be compared to on-site situation

12 mm bolts to be used for connections
Drilled hole must fit the size of the bolt and can be adapted if necessary

For each connection -

2 x 300x150 mm connection plates
6 mm thick

2 x 37x142 mm stiffener plates
6 mm thick

REV.	DATE	NOTE
-		

OBJECT

Guabuliga market
West Mamprusi, Northern Region, Ghana

CLIENT

Brave Aurora NGO
Chief Salifu Mahama, Guabuliga

AUTHOR / ARCHITECT

[applied] Foreign Affairs Lab
University of Applied Arts Vienna

DRAWING

Detail
Beam to beam connection

AUTHOR

Toms Kampars

SCALE	DATE
1:1	2019 / 02 / 08

REVISION

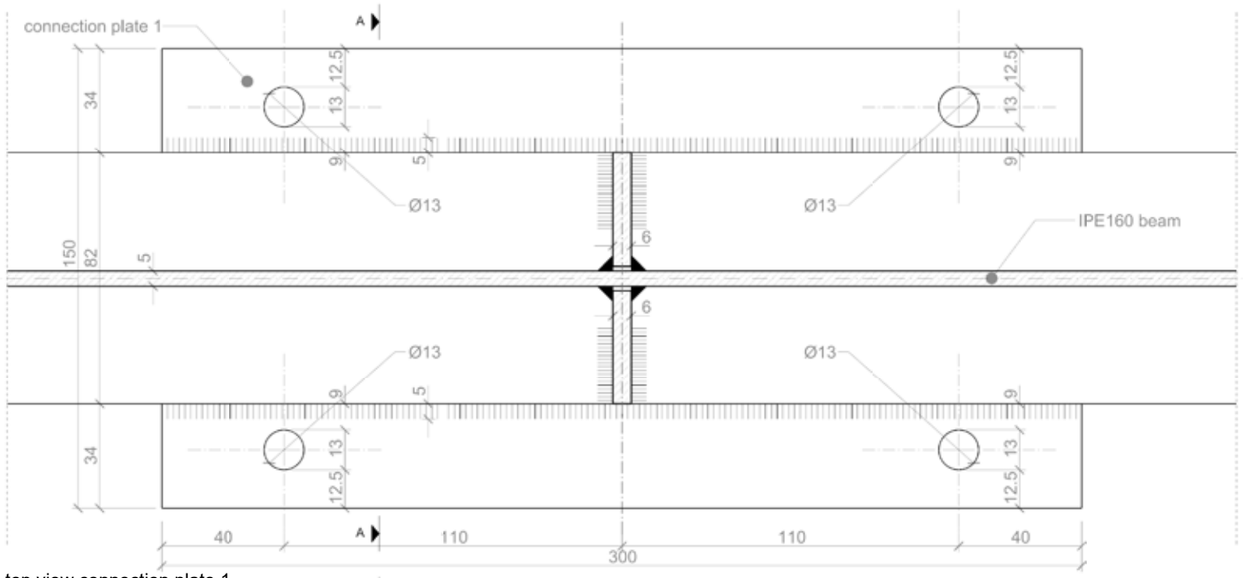
-

ARCHIVE TITLE

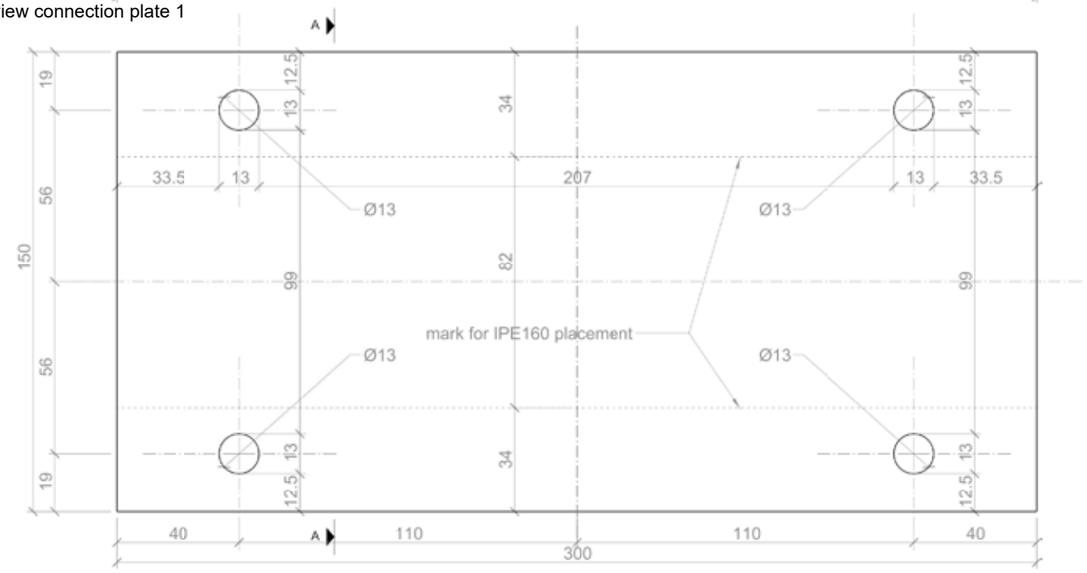
GM_A523_column_to_beam_connection

A3

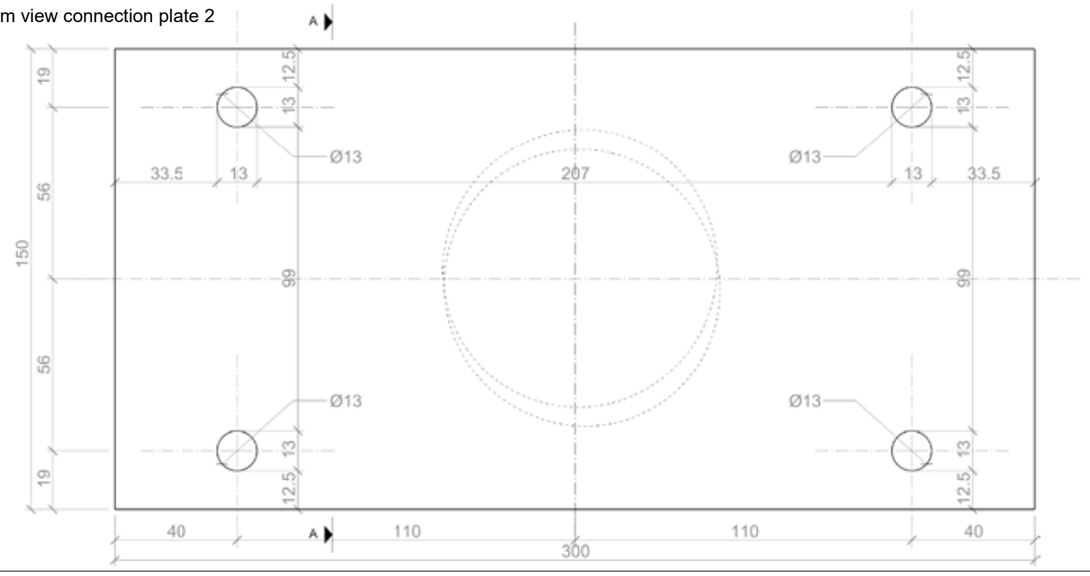
plan 1:2



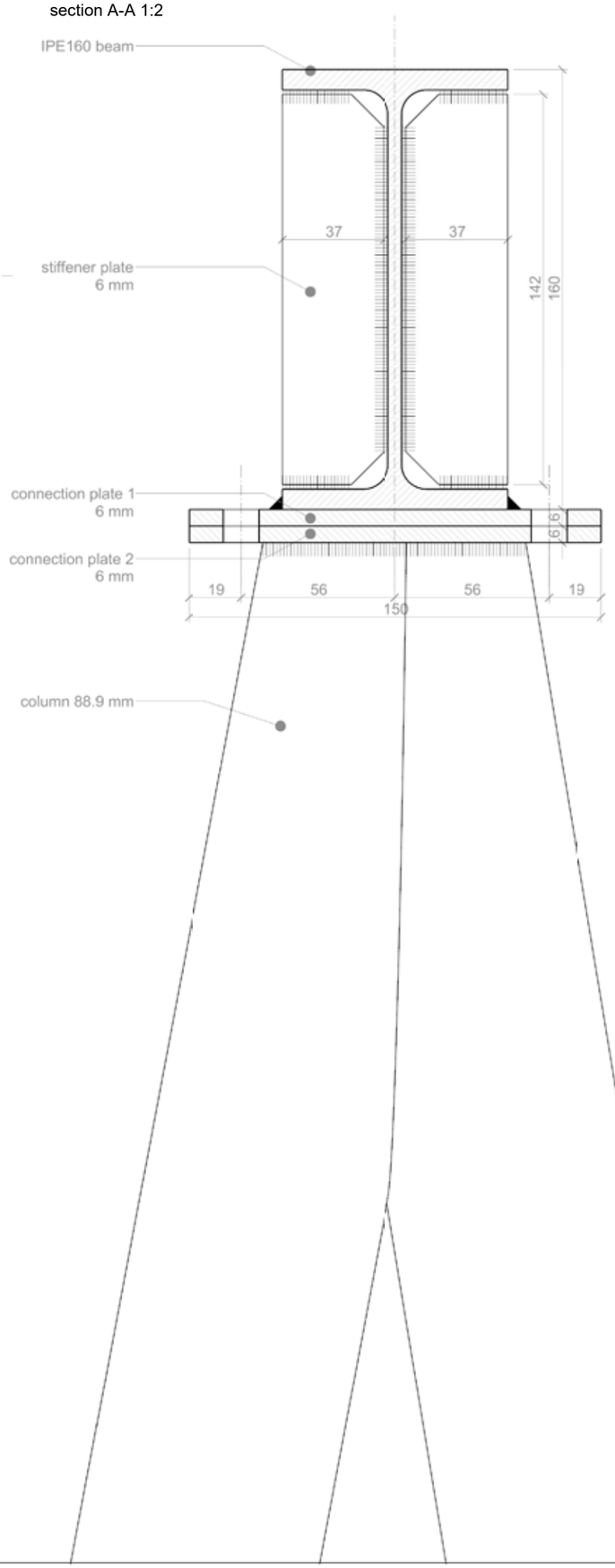
top view connection plate 1
1:2



bottom view connection plate 2
1:2



section A-A 1:2



NOTES

All units in Metric system
Units given in millimeters
For any changes or modifications consult the author!
All dimensions to be compared to on-site situation

12 mm bolts to be used for connections
Drilled hole must fit the size of the bolt and can be adapted if necessary

For each connection -

2 x 300x150 mm connection plates
6 mm thick

2 x 37x142 mm stiffener plates
6 mm thick

REV.	DATE	NOTE
-		

OBJECT

Guabuliga market
West Mamprusi, Northern Region, Ghana

CLIENT

Brave Aurora NGO
Chief Salifu Mahama, Guabuliga

AUTHOR / ARCHITECT

[applied] Foreign Affairs Lab
University of Applied Arts Vienna

DRAWING

Detail
Column to beam connection

AUTHOR

Toms Kampars

SCALE	DATE
1:1	2019 / 02 / 08

REVISION

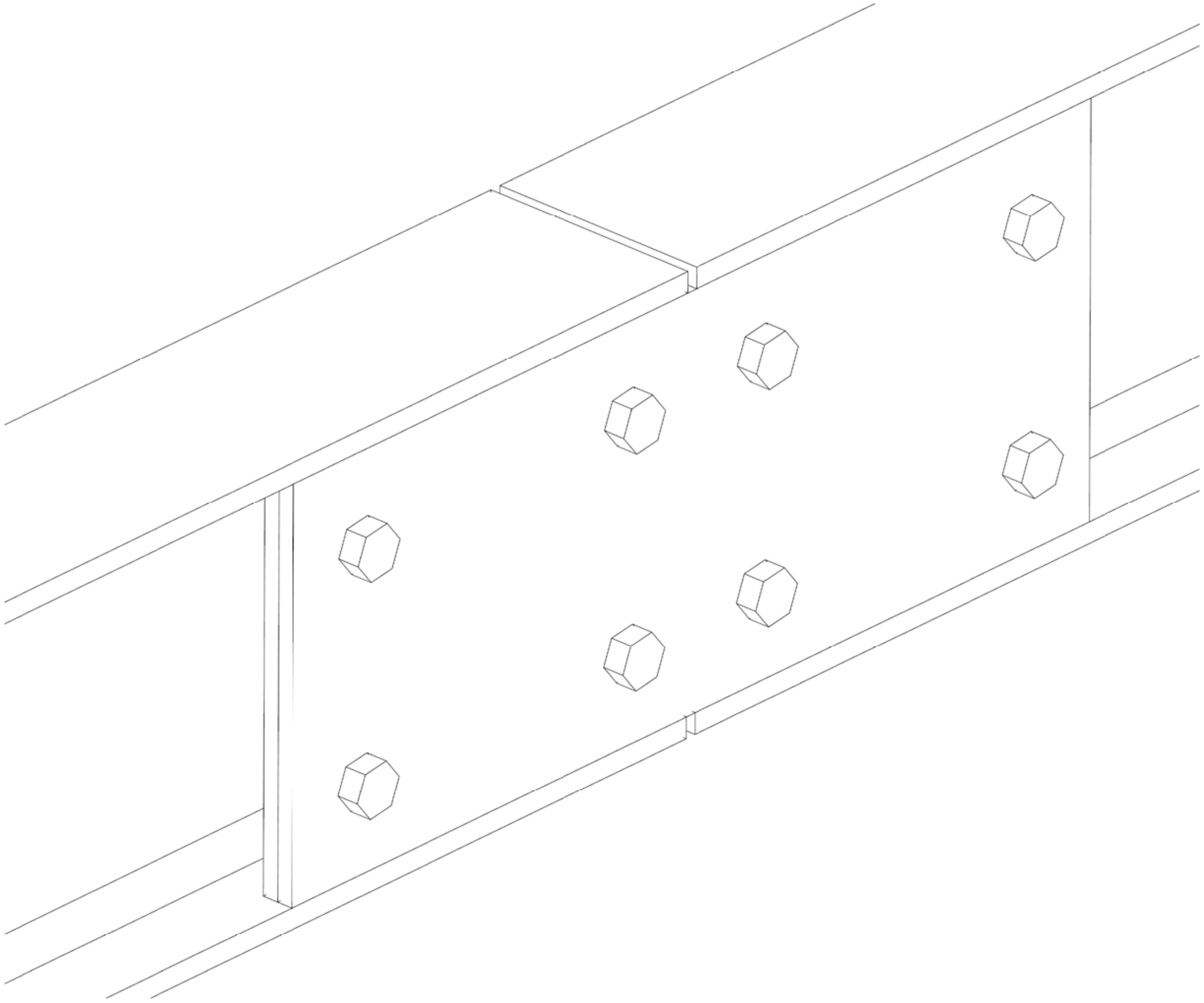
-

ARCHIVE TITLE

GM_A523_column_to_beam_connection

A3

BEAM TO BEAM CONNECTION



NOTES

All units in Metric system
Units given in millimeters
For any changes or modifications consult the author!
All dimensions to be compared to on-site situation

12 mm bolts to be used for connections
Drilled hole must fit the size of the bolt and can be adapted if necessary

For each beam extension -
4 x 360x145 mm plates
6 mm thick

REV.	DATE	NOTE
A	2019 / 02 / 08	detail geometry

OBJECT

Guabuliga market
West Mamprusi, Northern Region, Ghana

CLIENT

Brave Aurora NGO
Chief Salifu Mahama, Guabuliga

AUTHOR / ARCHITECT

[applied] Foreign Affairs Lab
University of Applied Arts Vienna

DRAWING

Detail
Beam to beam connection

AUTHOR

Toms Kampars

SCALE	DATE
1:1	2019 / 02 / 04

REVISION

A

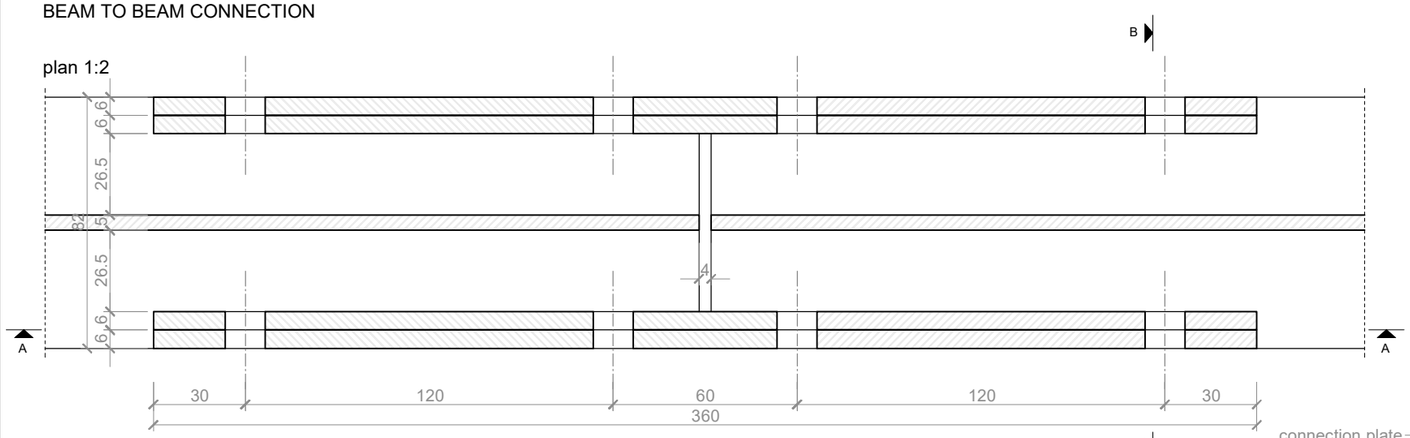
ARCHIVE TITLE

GM_A524_beam_to_beam_connection

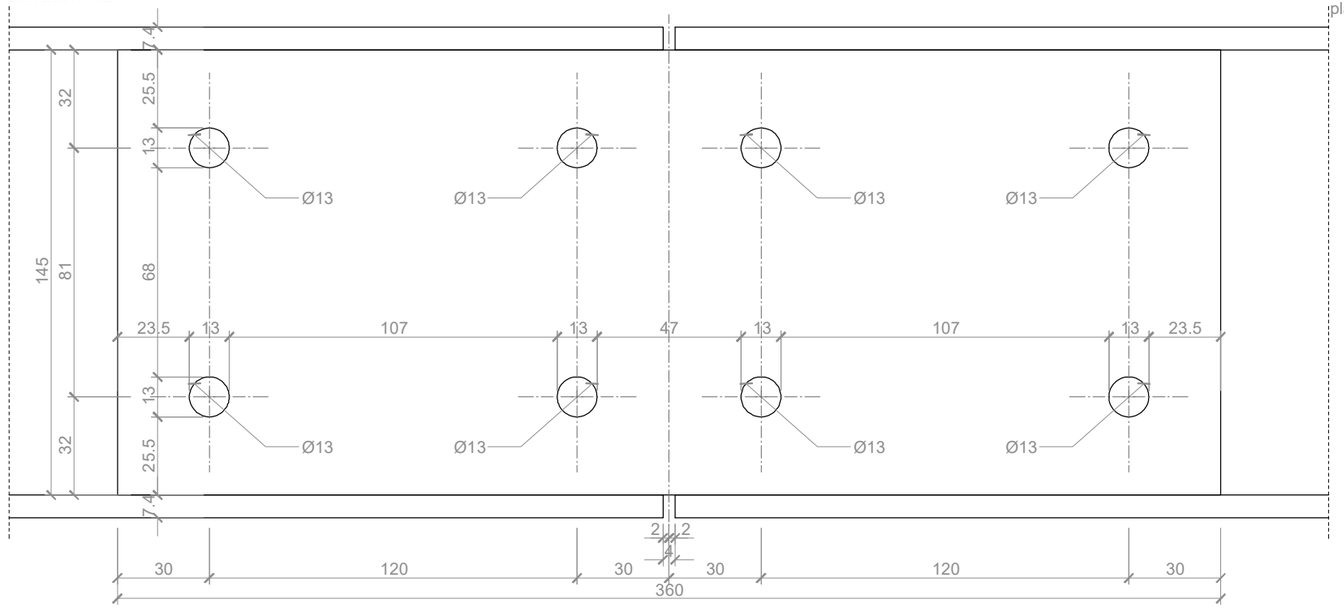
A3

BEAM TO BEAM CONNECTION

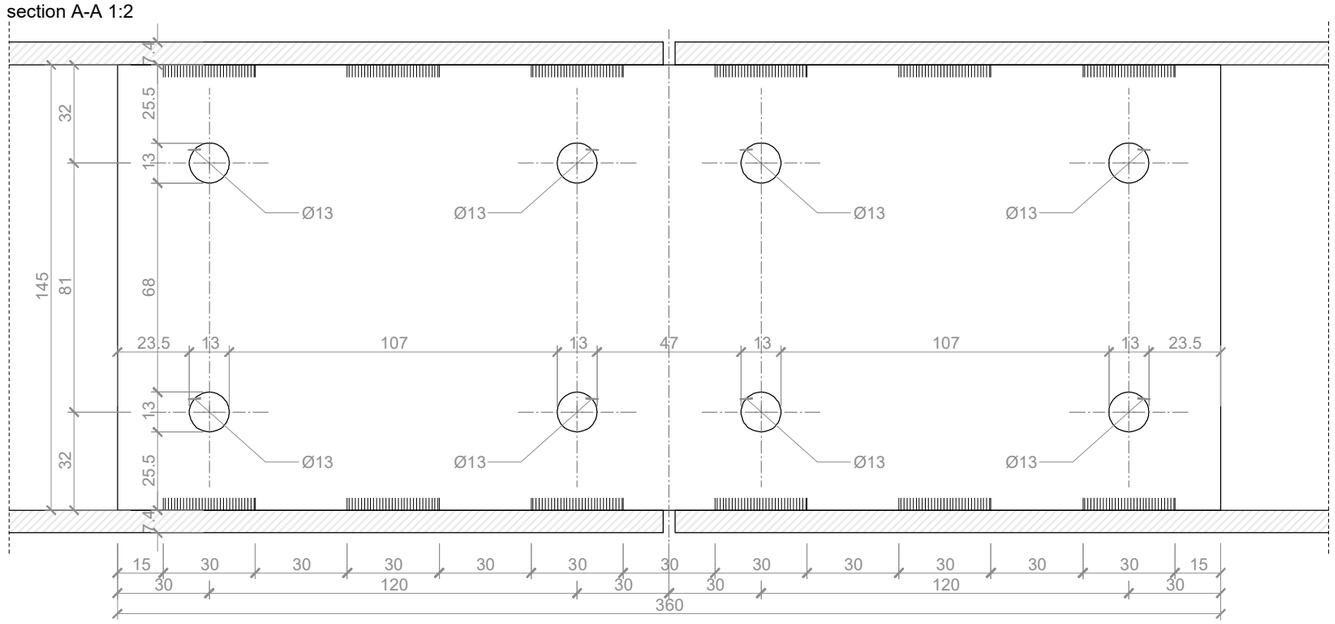
plan 1:2



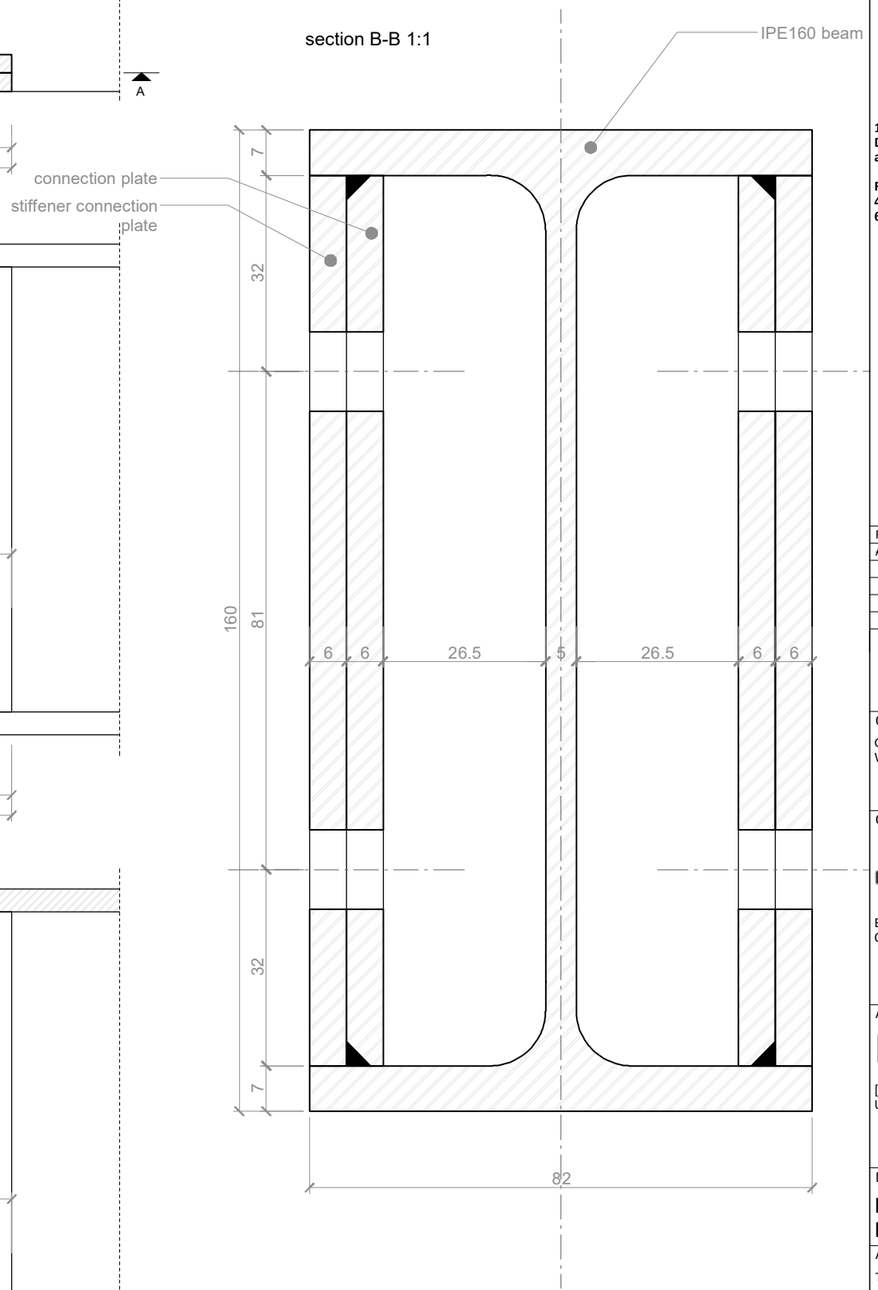
elevation 1:2



section A-A 1:2



section B-B 1:1



NOTES

All units in Metric system
Units given in millimeters
For any changes or modifications consult the author!
All dimensions to be compared to on-site situation

12 mm bolts to be used for connections
Drilled hole must fit the size of the bolt and can be adapted if necessary

For each beam extension -
4 x 360x145 mm plates
6 mm thick

REV.	DATE	NOTE
A	2019 / 02 / 08	detail geometry

OBJECT

Guabuliga market
West Mamprusi, Northern Region, Ghana

CLIENT

Brave Aurora NGO
Chief Salifu Mahama, Guabuliga

AUTHOR / ARCHITECT

[applied] Foreign Affairs Lab
University of Applied Arts Vienna

DRAWING

Detail
Beam to beam connection

AUTHOR

Toms Kampars

SCALE	DATE
1:1, 1:2	2019 / 02 / 04

REVISION

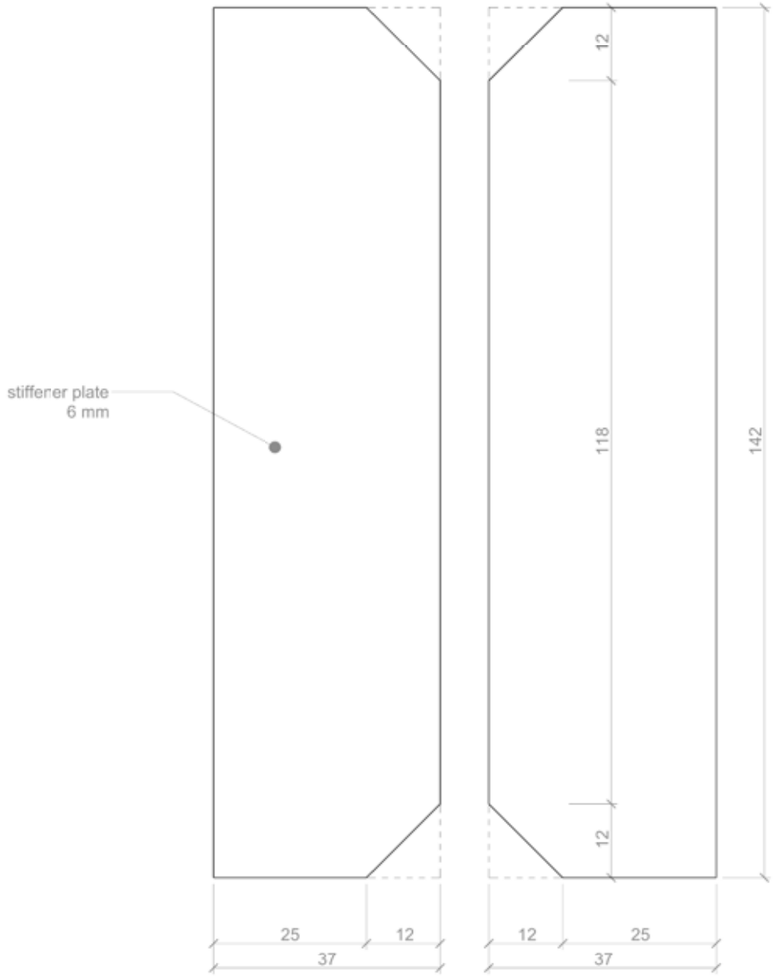
A

ARCHIVE TITLE

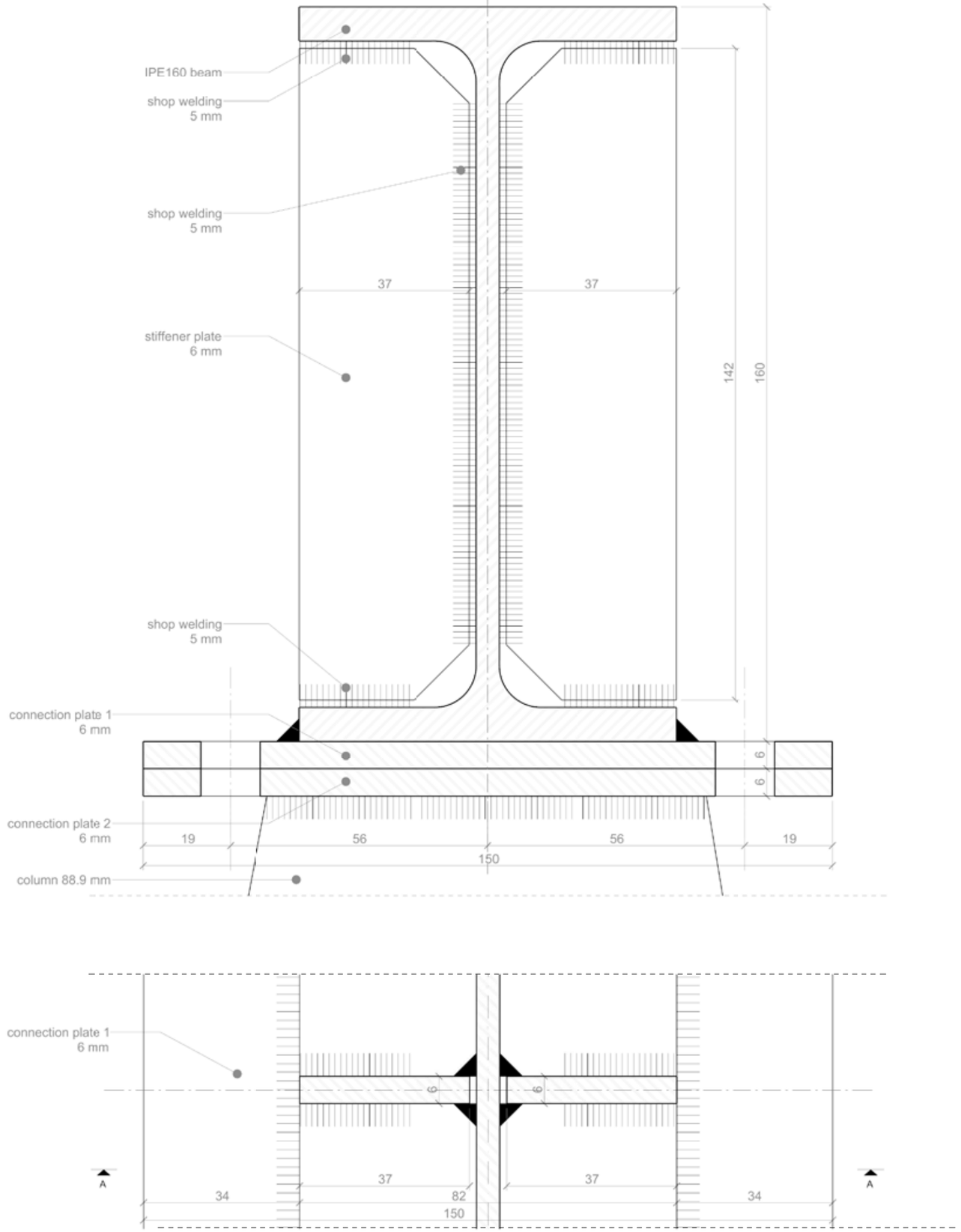
GM_A524_beam_to_beam_connection

A3

BEAM STIFFENERS
1:1



section A-A 1:2



NOTES

All units in Metric system
Units given in millimeters
For any changes or modifications consult the author!
All dimensions to be compared to on-site situation

Beam stiffeners used to enhance the beam when it meets with columns

REV.	DATE	NOTE
A	2019 / 02 / 09	more details added

OBJECT
Guabuliga market
West Mamprusi, Northern Region, Ghana

CLIENT
Brave Aurora NGO
Chief Salifu Mahama, Guabuliga

AUTHOR / ARCHITECT
[applied] Foreign Affairs Lab
University of Applied Arts Vienna

DRAWING
Detail
Beam Stiffeners Connection

AUTHOR
Magdalena Gorecka
Toms Kampars

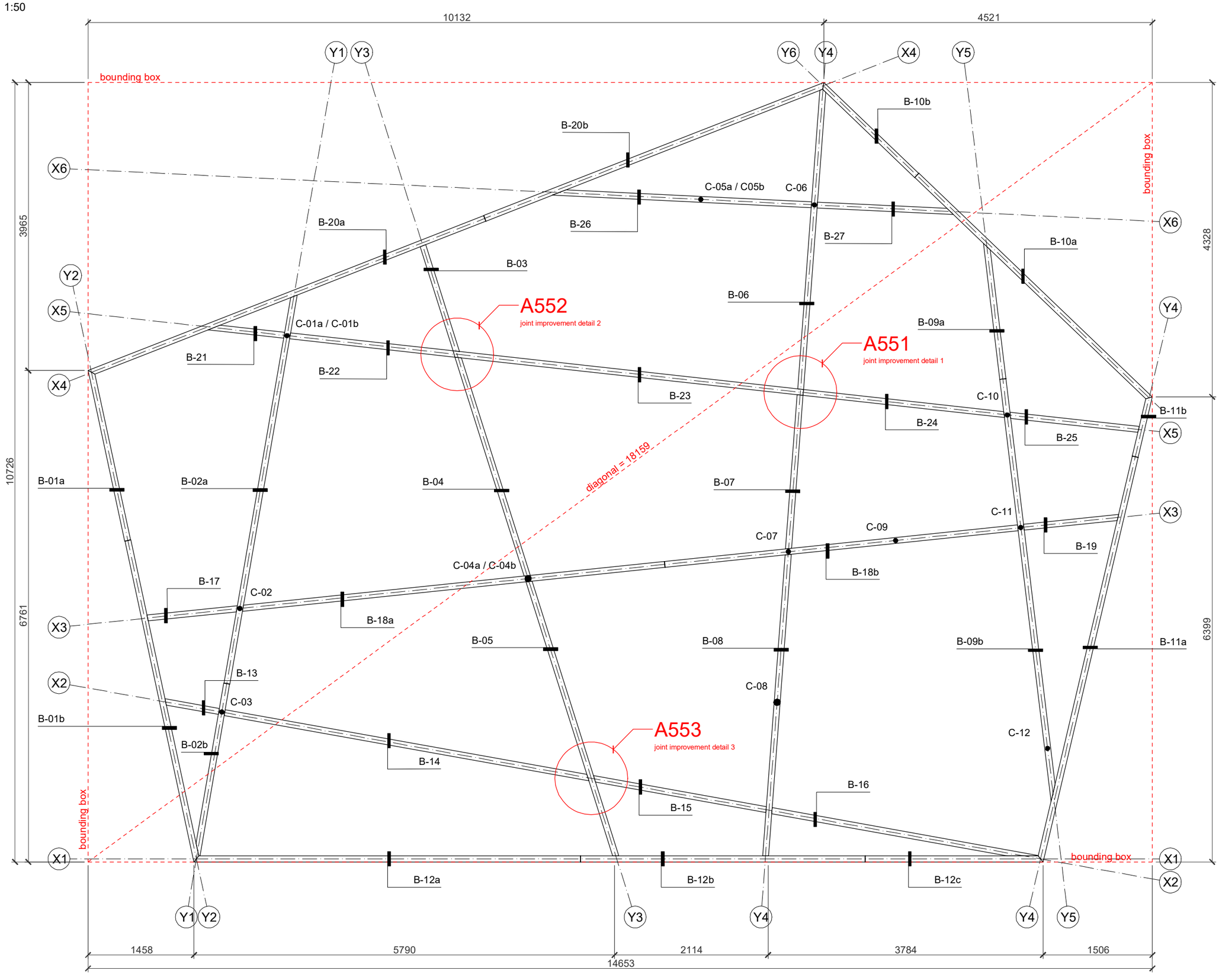
SCALE	DATE
1:1	2019 / 02 / 06

REVISION
A

ARCHIVE TITLE
GM_A526_beam_stiffeners_connection

A3

ROOF-1 STRUCTURE FABRICATION PLAN
1:50



A3

NOTES

All units in Metric system
For any changes or modifications consult the author!
All dimensions to be compared to on-site situation

REV.	DATE	NOTE
A	2019 / 02 / 04	column positions added

OBJECT
Guabuliga market
West Mamprusi, Northern Region, Ghana

CLIENT
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Chief Salifu Mahama, Guabuliga

AUTHOR / ARHITECT
[applied] Foreign Affairs Lab
University of Applied Arts Vienna

DRAWING
Roof -1
Structure Fabrication Plan

AUTHOR
Toms Kampars

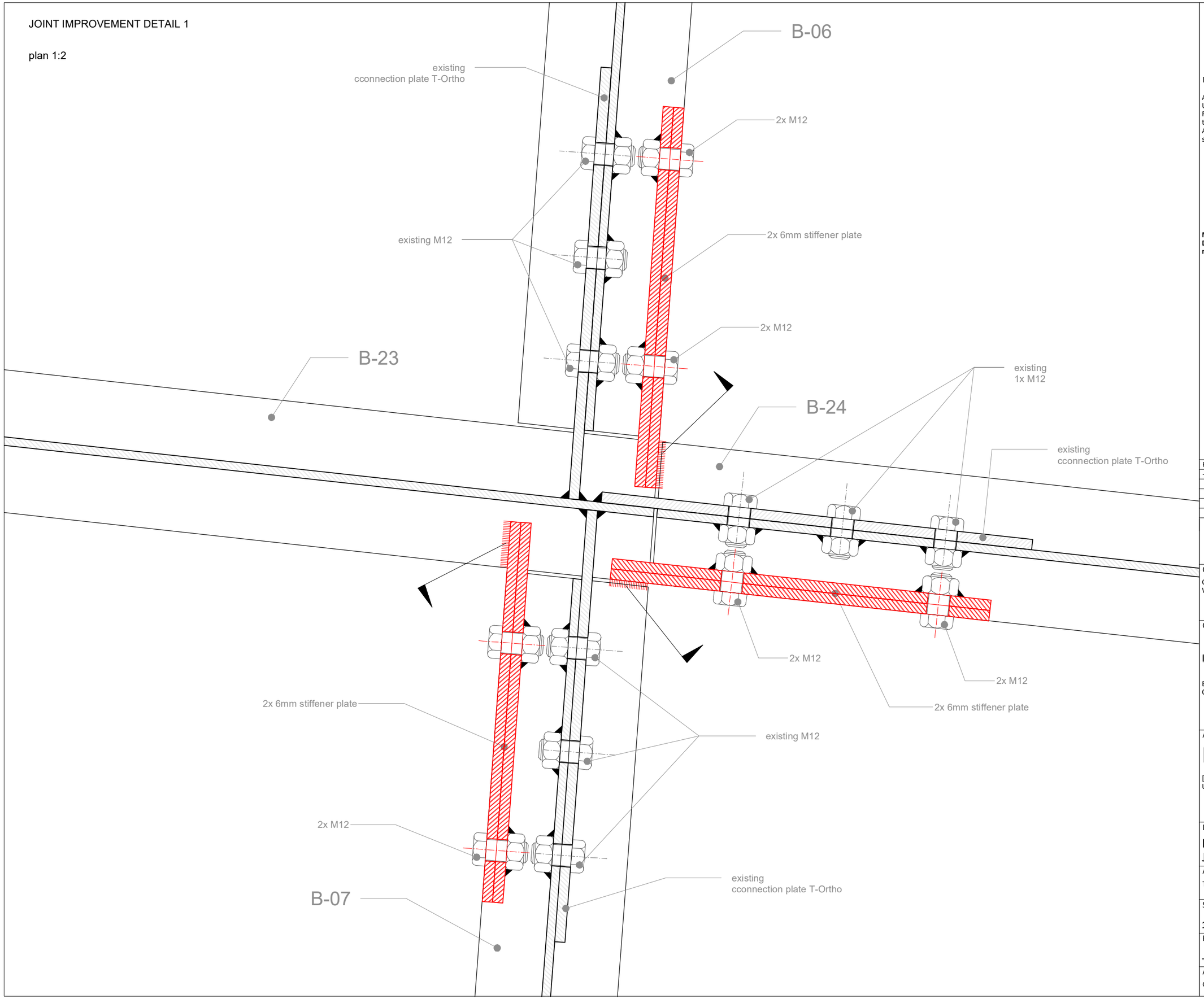
SCALE	DATE
1:50	2019 / 02 / 04

REVISION
A

ARCHIVE TITLE
GM_A422_roof1_structure_beams_plan

JOINT IMPROVEMENT DETAIL 1

plan 1:2



NOTES

All units in Metric system
Units given in millimeters
For any changes or modifications consult the author!
All dimensions to be compared to on-site situation

M12 bolts to be used for details
Drilled hole must be no bigger that D=13 mm

REV.	DATE	NOTE
-	-	-

OBJECT

Guabuliga market
West Mamprusi, Northern Region, Ghana

CLIENT

Brave Aurora NGO
Chief Salifu Mahama, Guabuliga

AUTHOR / ARCHITECT

[applied] Foreign Affairs Lab
University of Applied Arts Vienna

DRAWING

Detail
Joint improvement detail 1

AUTHOR

Toms Kampars

SCALE	DATE
1:2	2019 / 04 / 07

REVISION

-

ARCHIVE TITLE

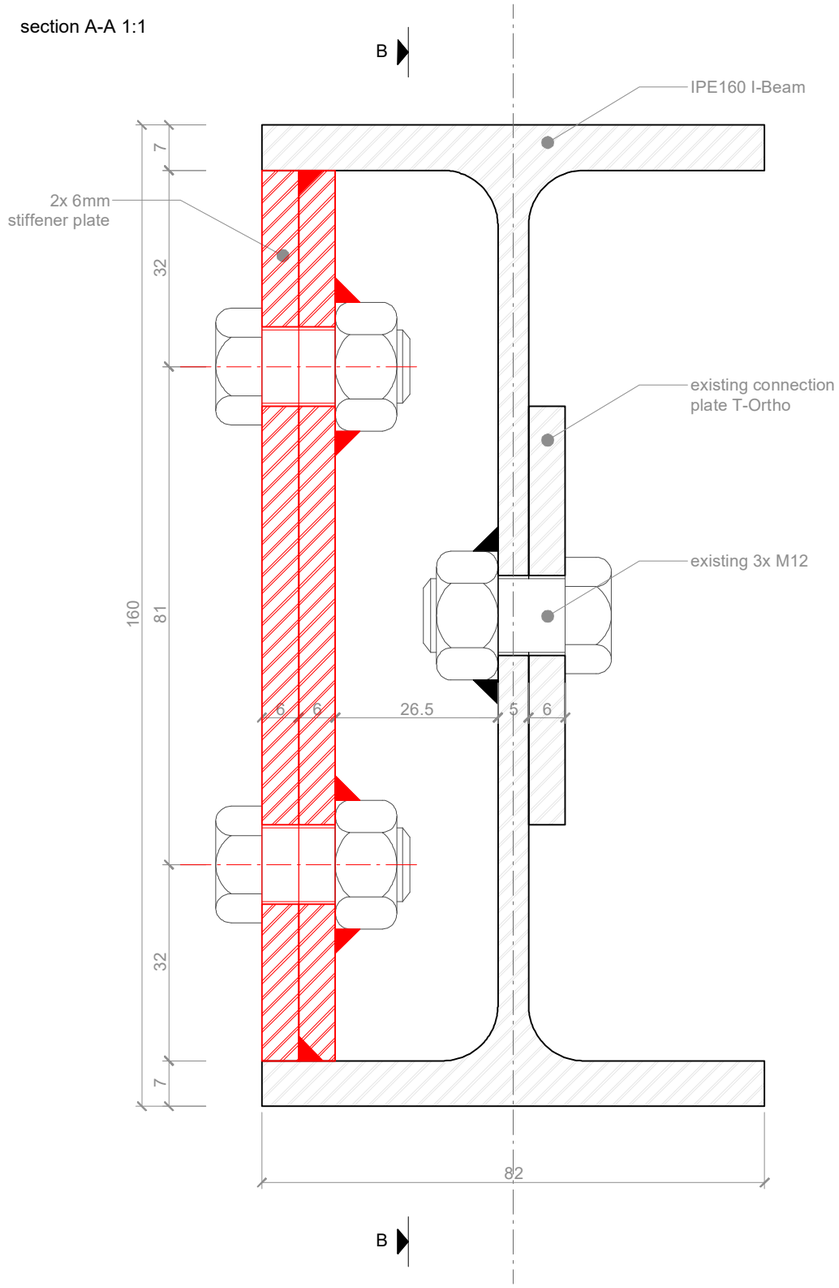
GM_A551_joint_improvement_detail_1

A3

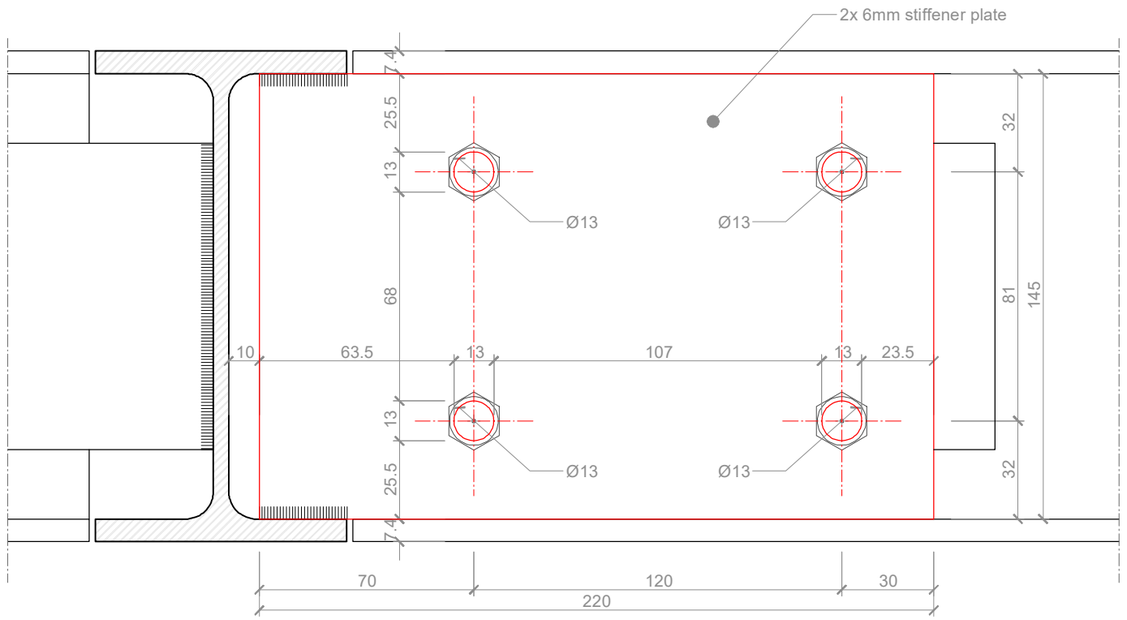
JOINT IMPROVEMENT DETAIL 1

plan 1:2

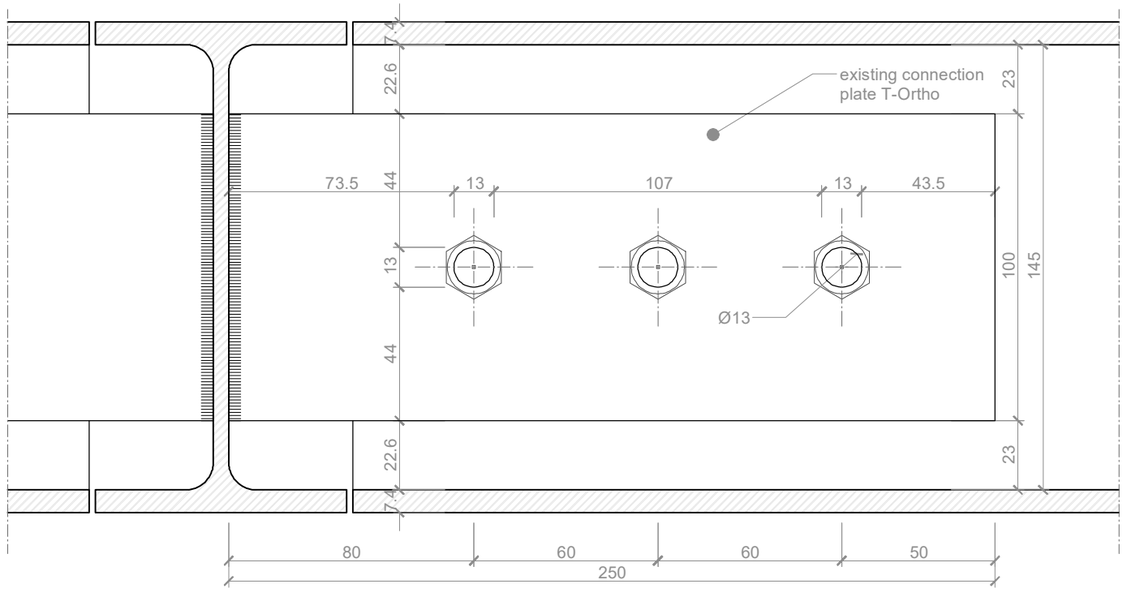
section A-A 1:1



elevation 1:2



section B-B 1:2



NOTES

All units in Metric system
Units given in millimeters
For any changes or modifications consult the author!
All dimensions to be compared to on-site situation

M12 bolts to be used for details
Drilled hole must be no bigger that D=13 mm

REV.	DATE	NOTE
-	-	-

OBJECT

Guabuliga market
West Mamprusi, Northern Region, Ghana

CLIENT

Brave Aurora NGO
Chief Salifu Mahama, Guabuliga

AUTHOR / ARCHITECT

[applied] Foreign Affairs Lab
University of Applied Arts Vienna

DRAWING

Detail
Joint improvement detail 1

AUTHOR

Toms Kampars

SCALE	DATE
1:1, 1:2	2019 / 04 / 07

REVISION

-

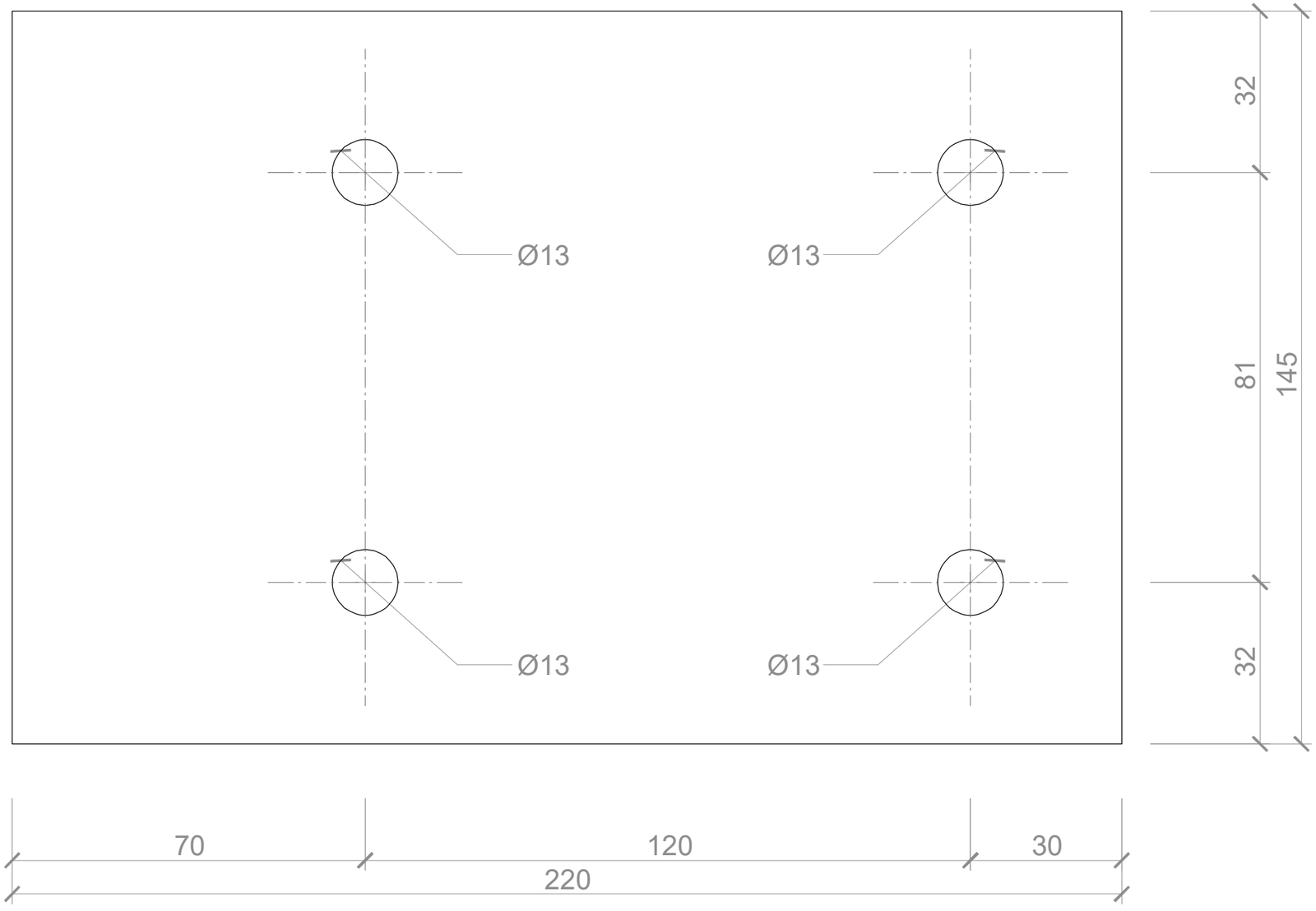
ARCHIVE TITLE

GM_A551_joint_improvement_detail_1

A3

JOINT IMPROVEMENT DETAIL 1

PLATE WORKSHOP DRAWING 1:1



NOTES

All units in Metric system
Units given in millimeters
For any changes or modifications consult the author!
All dimensions to be compared to on-site situation

REV.	DATE	NOTE
-	-	-

OBJECT

Guabuliga market
West Mamprusi, Northern Region, Ghana

CLIENT

Brave Aurora NGO
Chief Salifu Mahama, Guabuliga

AUTHOR / ARCHITECT

[applied] Foreign Affairs Lab
University of Applied Arts Vienna

DRAWING

Detail
Joint improvement detail 1

AUTHOR

Toms Kampars

SCALE	DATE
1:1, 1:2	2019 / 04 / 07

REVISION

-

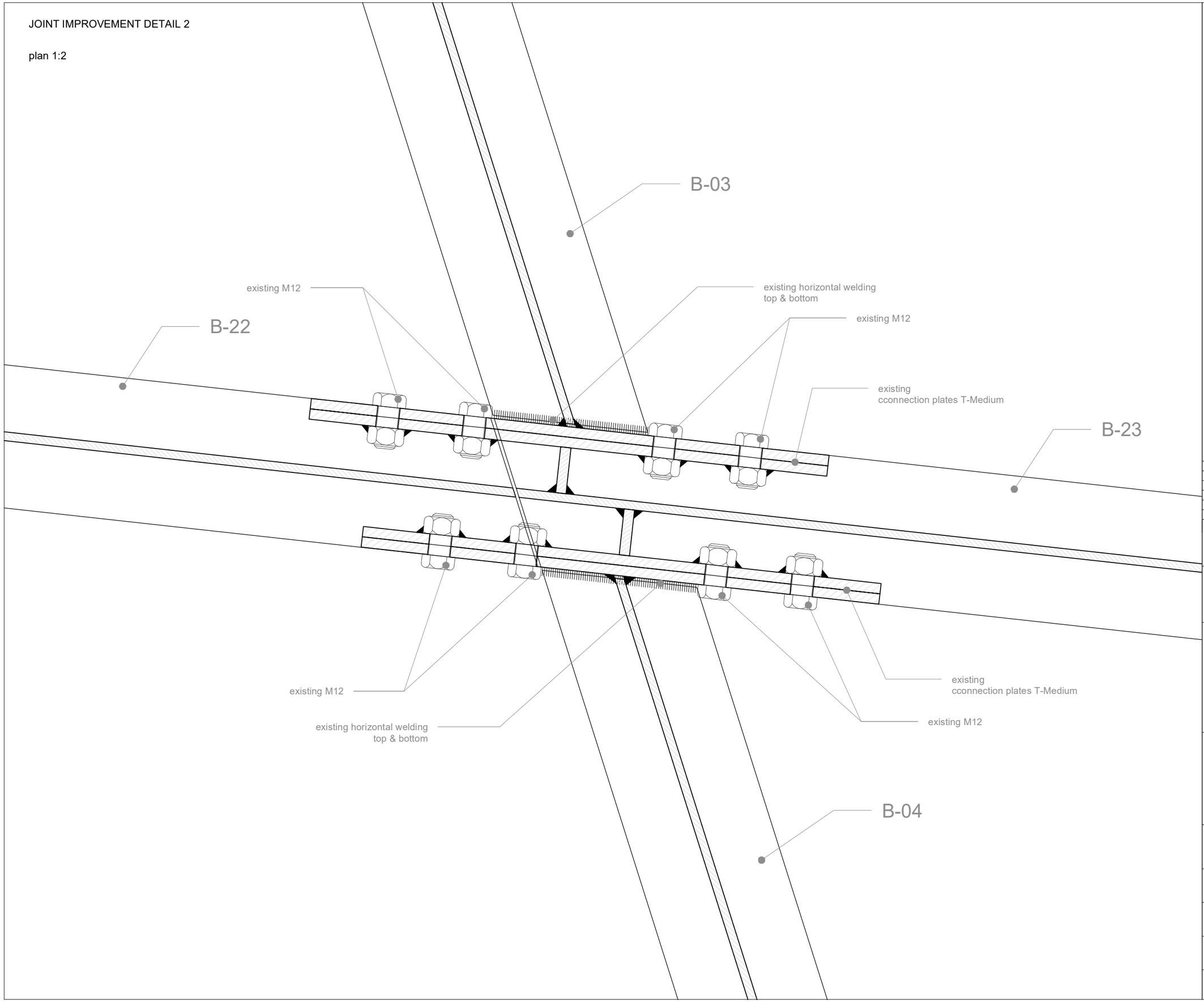
ARCHIVE TITLE

GM_A551_joint_improvement_detail_1

A3

JOINT IMPROVEMENT DETAIL 2

plan 1:2



NOTES

All units in Metric system
Units given in millimeters
For any changes or modifications consult the author!
All dimensions to be compared to on-site situation

M12 bolts to be used for details
Drilled hole must be no bigger that D=13 mm

REV.	DATE	NOTE
-	-	-

OBJECT
Guabuliga market
West Mamprusi, Northern Region, Ghana

CLIENT
Brave Aurora NGO
Chief Salifu Mahama, Guabuliga

AUTHOR / ARCHITECT
[applied] Foreign Affairs Lab
University of Applied Arts Vienna

DRAWING
Detail
Joint improvement detail 2

AUTHOR
Toms Kampars

SCALE	DATE
1:2	2019 / 04 / 07

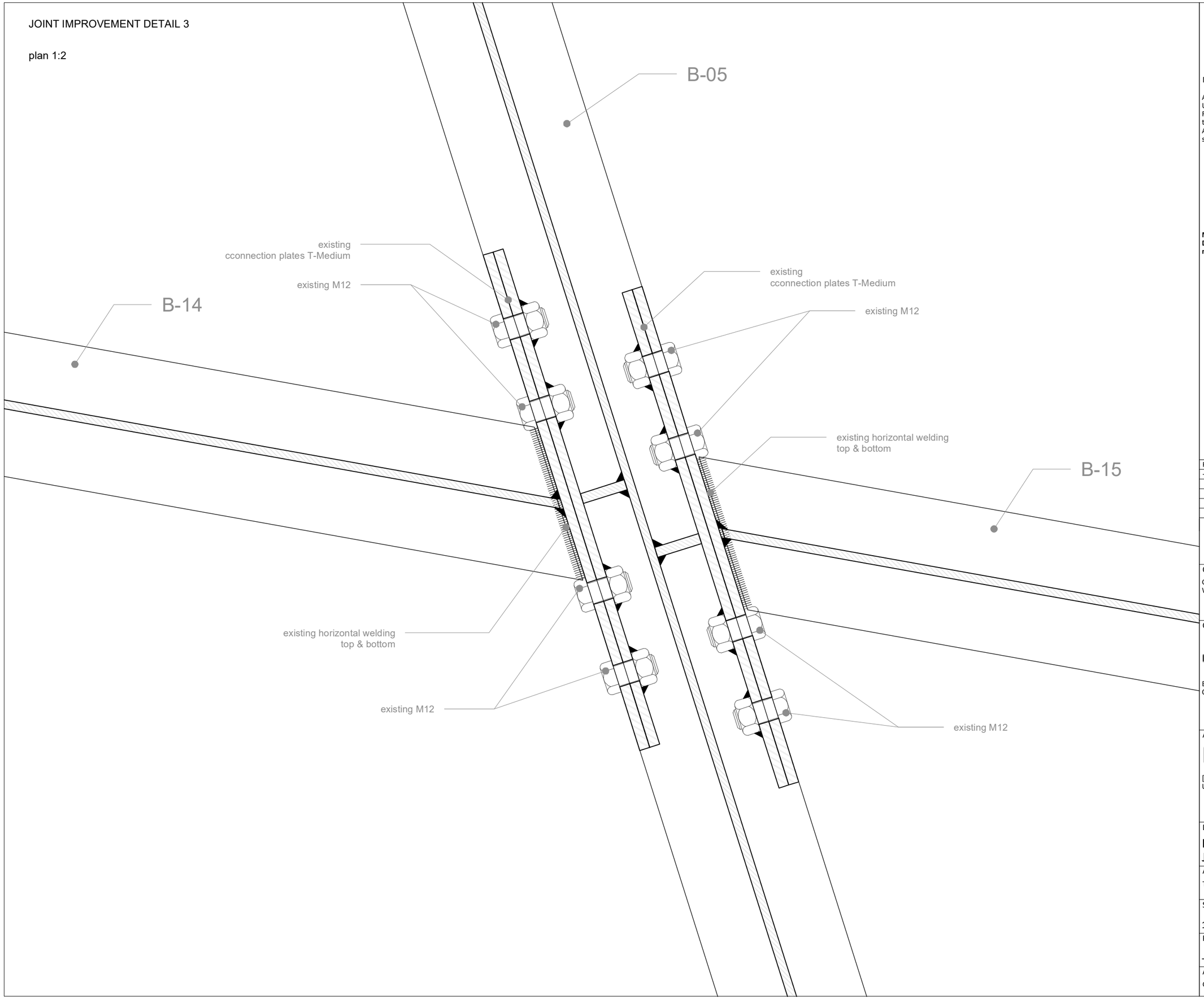
REVISION
-

ARCHIVE TITLE
GM_A552_joint_improvement_detail_2

A3

JOINT IMPROVEMENT DETAIL 3

plan 1:2



NOTES

All units in Metric system
Units given in millimeters
For any changes or modifications consult the author!
All dimensions to be compared to on-site situation

M12 bolts to be used for details
Drilled hole must be no bigger that D=13 mm

REV.	DATE	NOTE
-	-	-

OBJECT

Guabuliga market
West Mamprusi, Northern Region, Ghana

CLIENT

Brave Aurora NGO
Chief Salifu Mahama, Guabuliga

AUTHOR / ARCHITECT

[applied] Foreign Affairs Lab
University of Applied Arts Vienna

DRAWING

Detail
Joint improvement detail 3

AUTHOR

Toms Kampars

SCALE	DATE
1:2	2019 / 04 / 07

REVISION

-

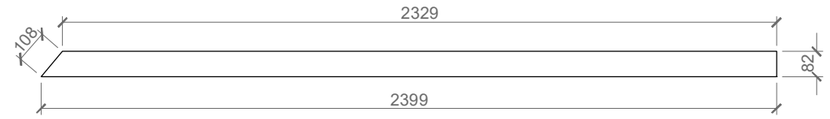
ARCHIVE TITLE

GM_A553_joint_improvement_detail_3

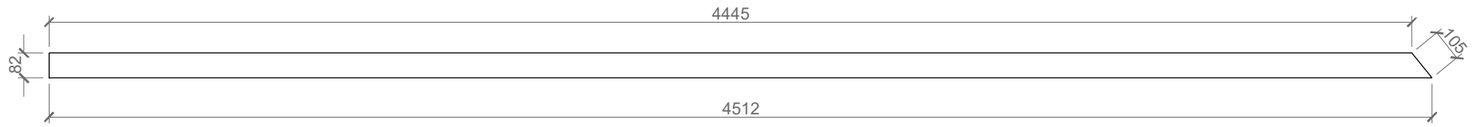
A3

Roof -1
Beam Schedule 1

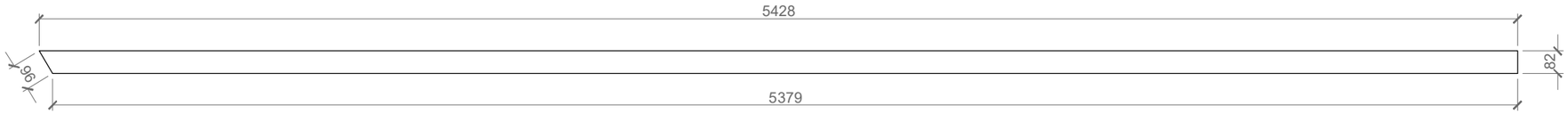
B-01a



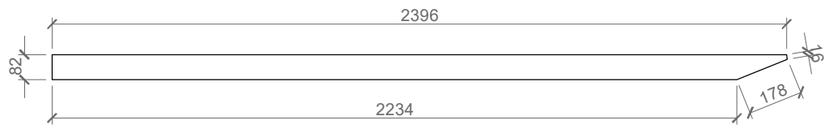
B-01b



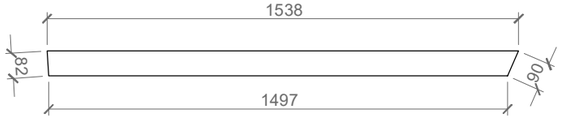
B-02a



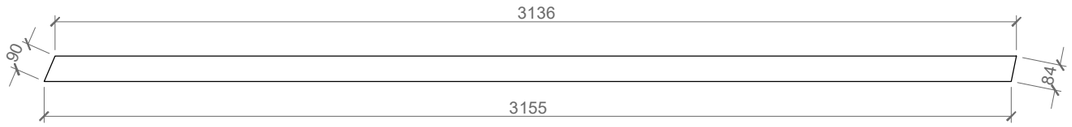
B-02b



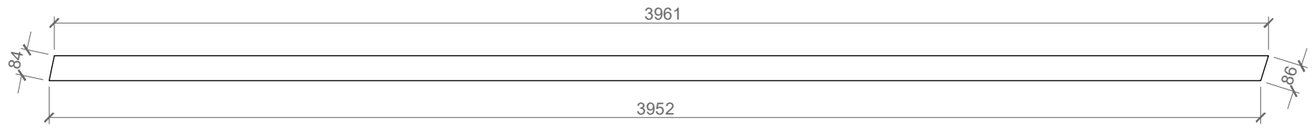
B-03



B-04



B-05



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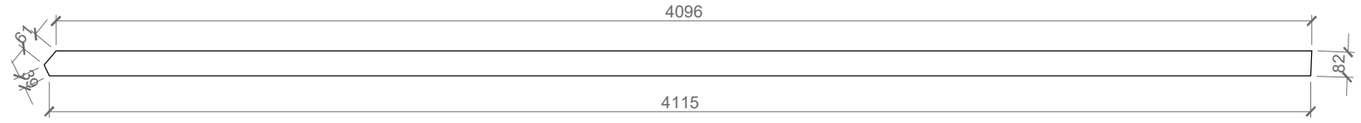
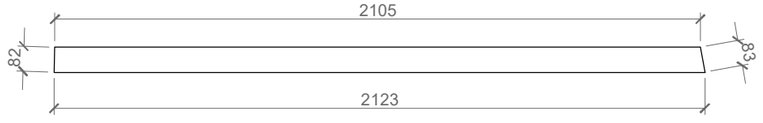


B-07



A3

NOTES

All units in Metric system
For any changes or modifications consult the author!
All dimensions to be compared to on-site situation

REV.	DATE	NOTE
A	2019 / 02 / 16	

OBJECT

Guabuliga market
West Mamprusi, Northern Region, Ghana

CLIENT

Brave Aurora NGO
Chief Salifu Mahama, Guabuliga

AUTHOR / ARCHITECT

[applied] Foreign Affairs Lab
University of Applied Arts Vienna

DRAWING

Roof -1
Beam Schedule

AUTHOR

Magdalena Gorecka
Toms Kampars

SCALE	DATE
1:20	2019 / 02 / 04

REVISION

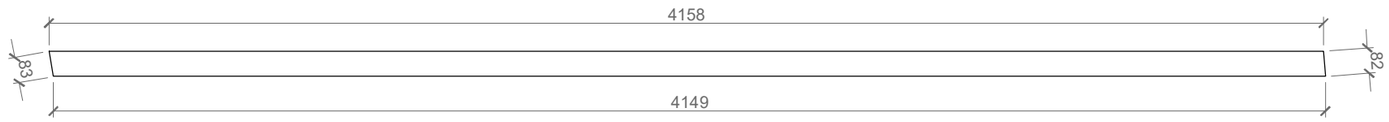
A

ARCHIVE TITLE

GM_A611_beam_schedule_1

Roof -1
Beam Schedule 2

B-08



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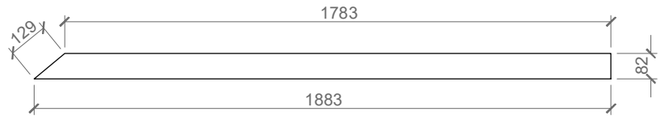

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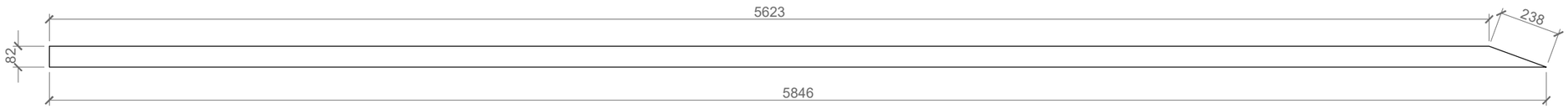

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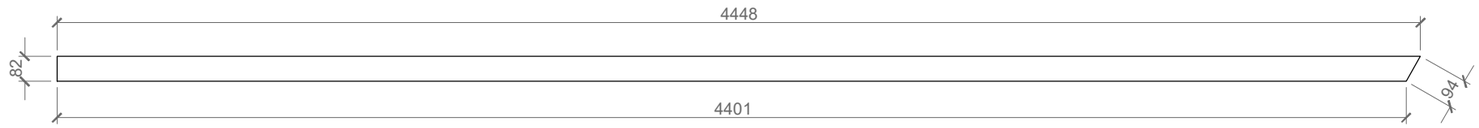

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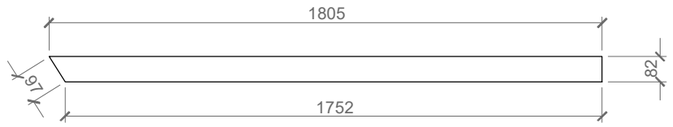

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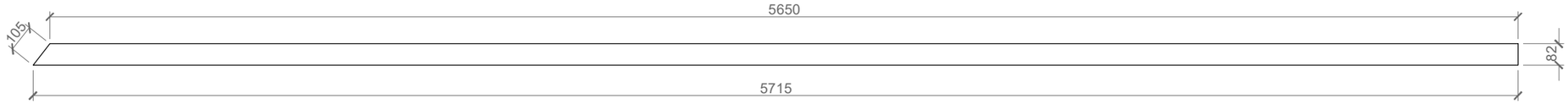

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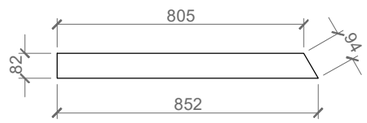

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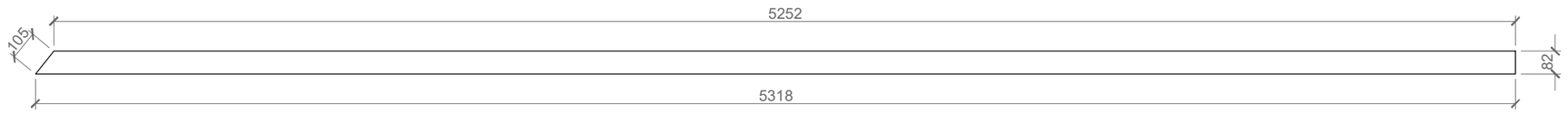

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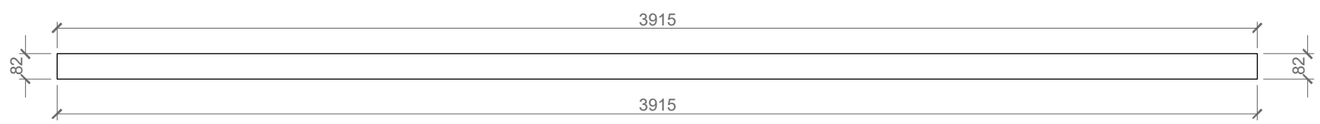


A3

NOTES

All units in Metric system
For any changes or modifications consult the author!
All dimensions to be compared to on-site situation

REV.	DATE	NOTE
A	2019 / 02 / 16	

OBJECT

Guabuliga market
West Mamprusi, Northern Region, Ghana

CLIENT

Brave Aurora NGO
Chief Salifu Mahama, Guabuliga

AUTHOR / ARCHITECT

[applied] Foreign Affairs Lab
University of Applied Arts Vienna

DRAWING

Roof -1
Beam Schedule

AUTHOR

Magdalena Gorecka
Toms Kampars

SCALE	DATE
1:20	2019 / 02 / 04

REVISION

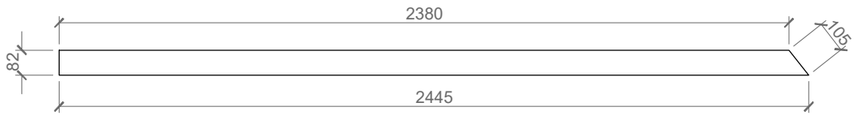
A

ARCHIVE TITLE

GM_A611_beam_schedule_2

Roof -1
Beam Schedule 3

B-12c



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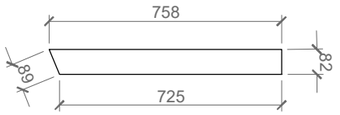

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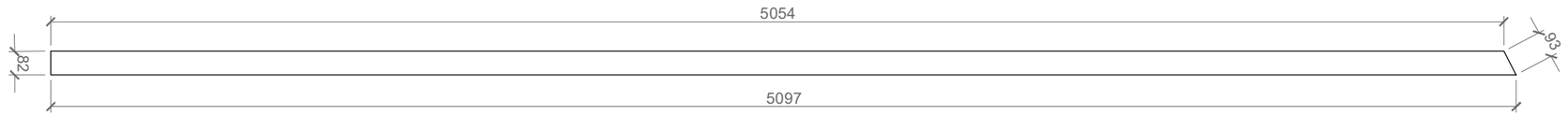

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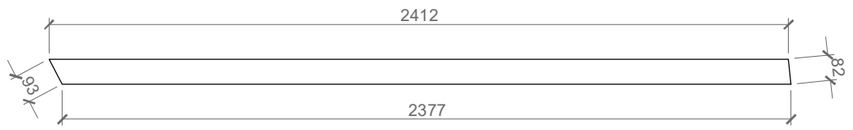

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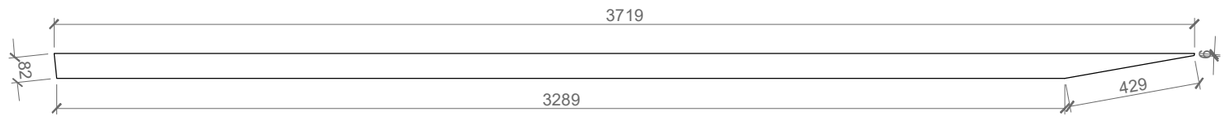

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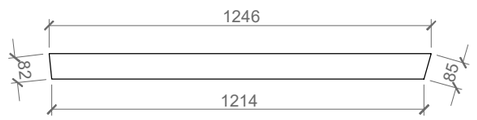

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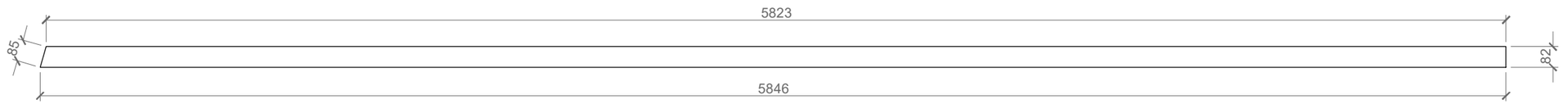

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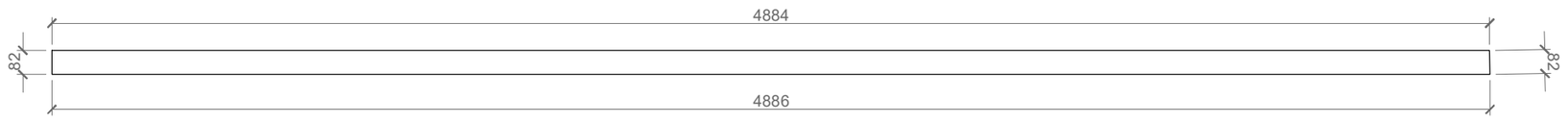

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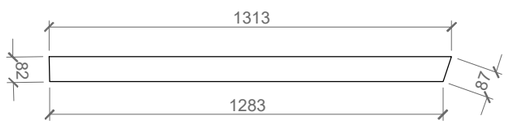


A3

NOTES

All units in Metric system
For any changes or modifications consult the author!
All dimensions to be compared to on-site situation

REV.	DATE	NOTE
A	2019 / 02 / 16	

OBJECT

Guabuliga market
West Mamprusi, Northern Region, Ghana

CLIENT

Brave Aurora NGO
Chief Salifu Mahama, Guabuliga

AUTHOR / ARCHITECT

[applied] Foreign Affairs Lab
University of Applied Arts Vienna

DRAWING

Roof -1
Beam Schedule

AUTHOR

Magdalena Gorecka
Toms Kampars

SCALE	DATE
1:20	2019 / 02 / 04

REVISION

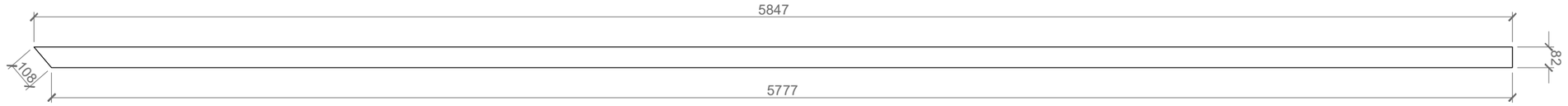
A

ARCHIVE TITLE

GM_A611_beam_schedule_3

Roof -1
Beam Schedule 4

B-20a



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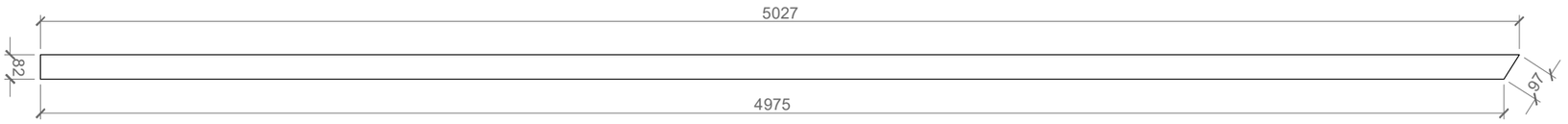

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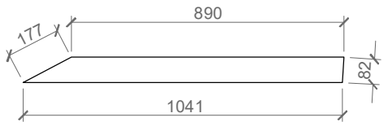

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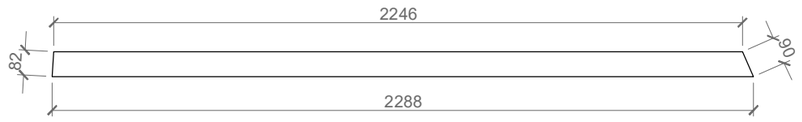

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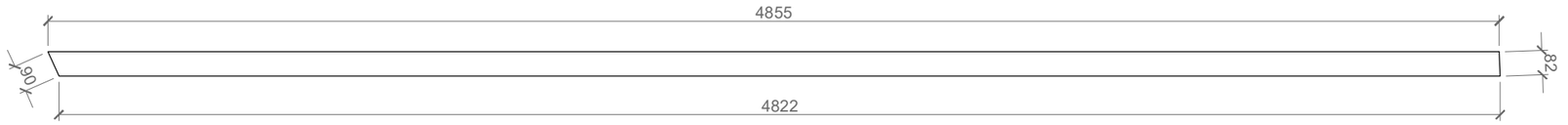

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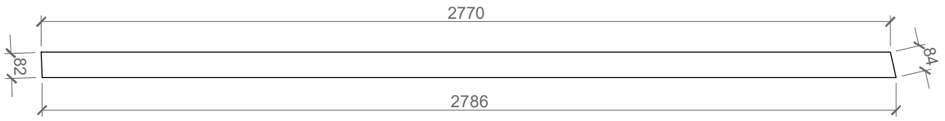

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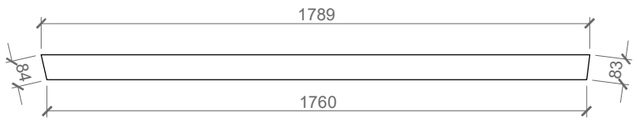

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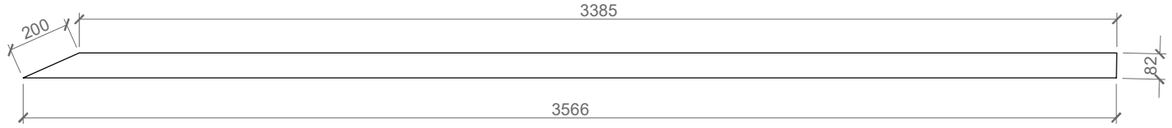

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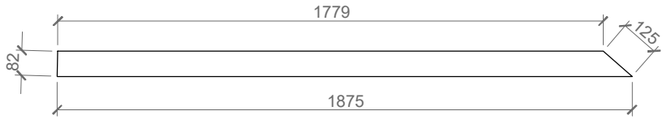


A3

NOTES

All units in Metric system
For any changes or modifications consult the author!
All dimensions to be compared to on-site situation

REV.	DATE	NOTE
A	2019 / 02 / 16	

OBJECT
Guabuliga market
West Mamprusi, Northern Region, Ghana

CLIENT
Brave Aurora NGO
Chief Salifu Mahama, Guabuliga

AUTHOR / ARCHITECT
[applied] Foreign Affairs Lab
University of Applied Arts Vienna

DRAWING
Roof -1
Beam Schedule

AUTHOR
Magdalena Gorecka
Toms Kampars

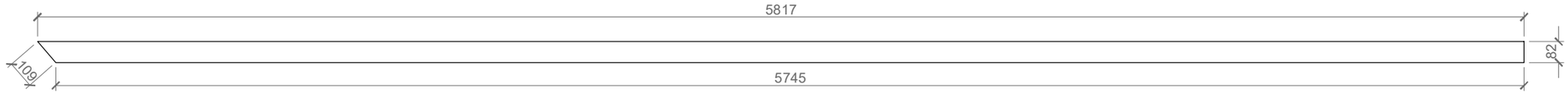
SCALE	DATE
1:20	2019 / 02 / 04

REVISION
A

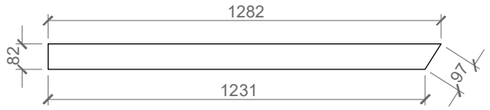
ARCHIVE TITLE
GM_A611_beam_schedule_4

ROOF-2
BEAM SCHEDULE 5
1:20

B-31a



B-31b



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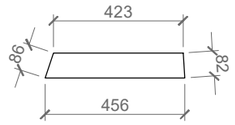

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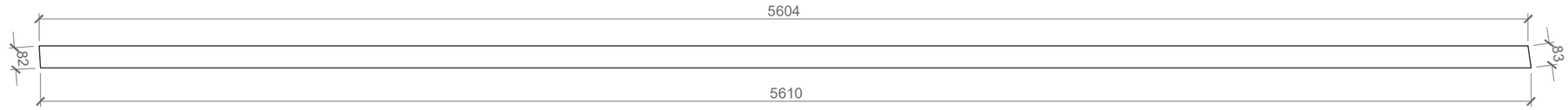

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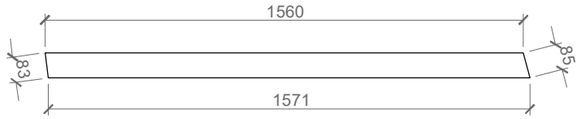

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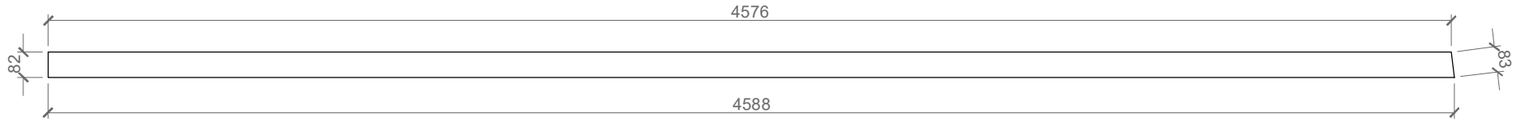

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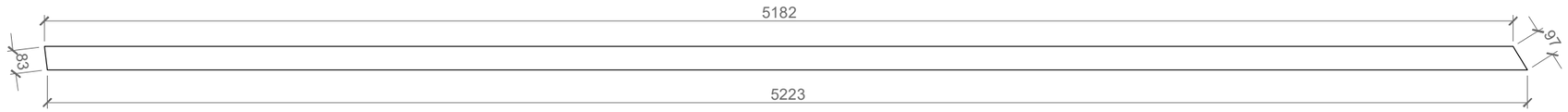

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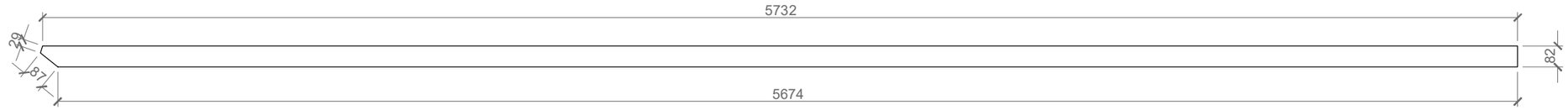
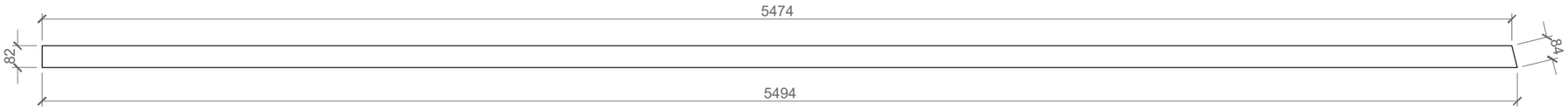


B-37b



A3

NOTES

All units in Metric system
Units in millimeters
For any changes or modifications consult the author!
All dimensions to be compared to on-site situation

REV.	DATE	NOTE
A	2019 / 02 / 16	beam lenghts

OBJECT
Guabuliga market
West Mamprusi, Northern Region, Ghana

CLIENT
Brave Aurora NGO
Chief Salifu Mahama, Guabuliga

AUTHOR / ARCHITECT
[applied] Foreign Affairs Lab
University of Applied Arts Vienna

DRAWING
Roof -2
Beam Schedule

AUTHOR
Toms Kampars

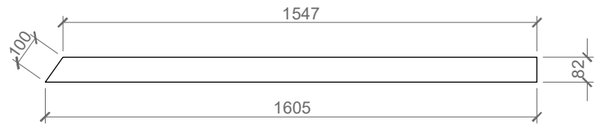
SCALE	DATE
1:20	2019 / 02 / 07

REVISION
A

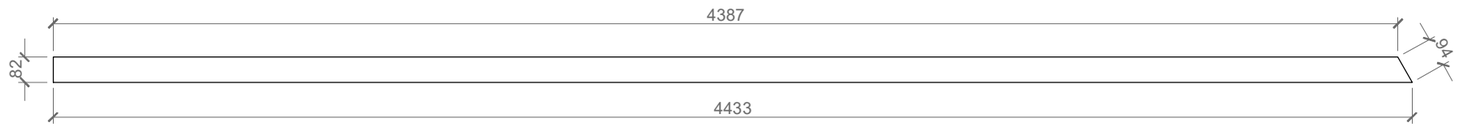
ARCHIVE TITLE
GM_A611_beam_schedule_5

ROOF-2
BEAM SCHEDULE 6
1:20

B-38a



B-38b



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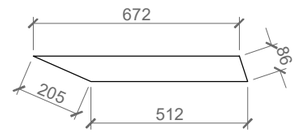

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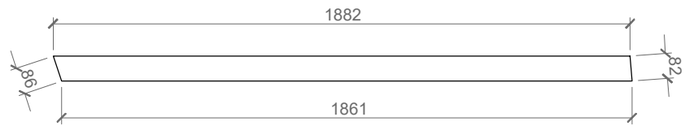

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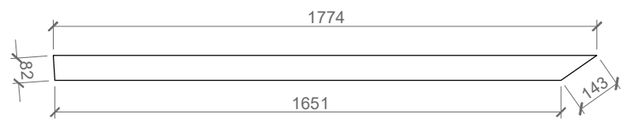

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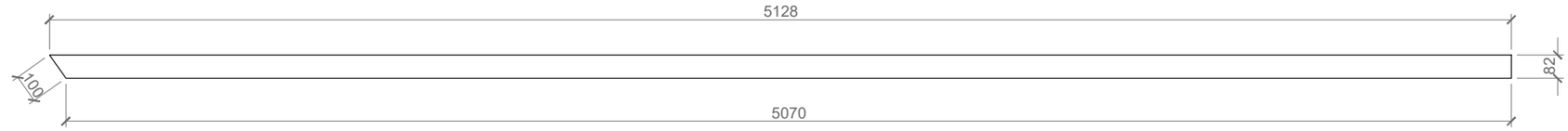

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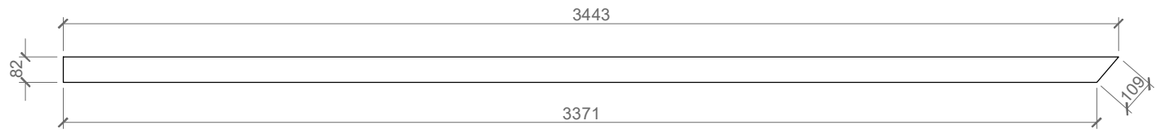

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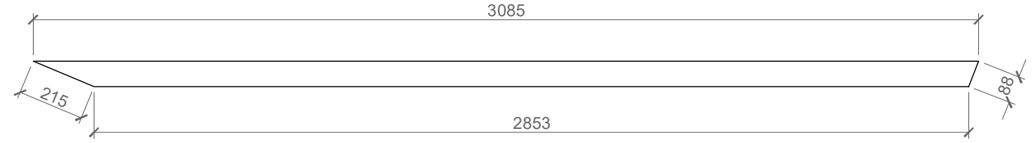

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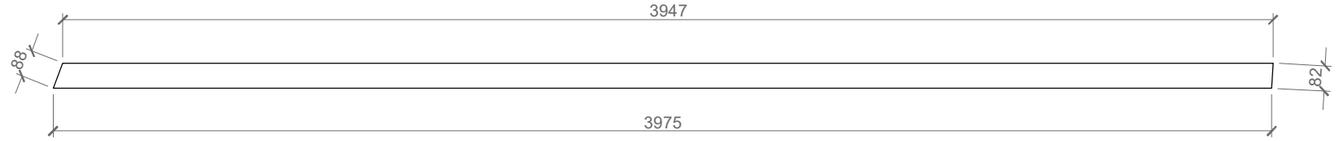

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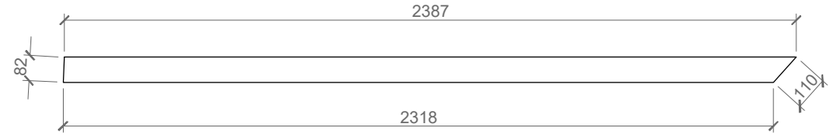


A3

NOTES

All units in Metric system
Units in millimeters
For any changes or modifications consult the author!
All dimensions to be compared to on-site situation

REV.	DATE	NOTE
A	2019 / 02 / 16	beam lenghts

OBJECT
Guabuliga market
West Mamprusi, Northern Region, Ghana

CLIENT
Brave Aurora NGO
Chief Salifu Mahama, Guabuliga

AUTHOR / ARCHITECT
[applied] Foreign Affairs Lab
University of Applied Arts Vienna

DRAWING
Roof -2
Beam Schedule

AUTHOR
Toms Kampars

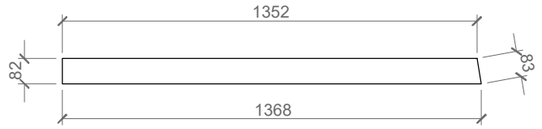
SCALE	DATE
1:20	2019 / 02 / 07

REVISION
A

ARCHIVE TITLE
GM_A611_beam_schedule_6

ROOF-2
BEAM SCHEDULE 7
1:20

B-46



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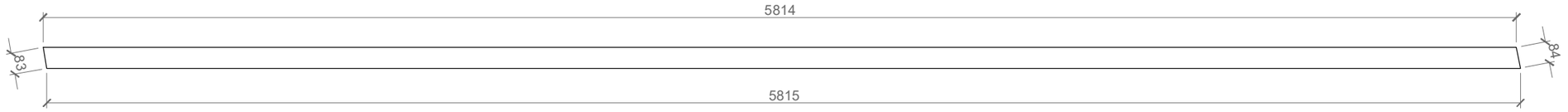

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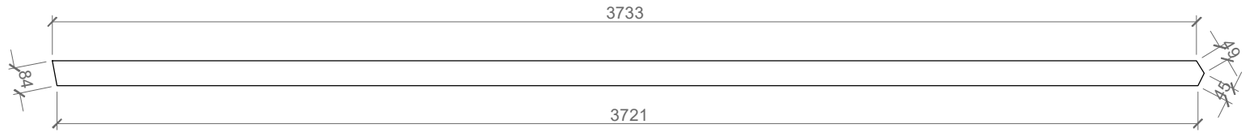

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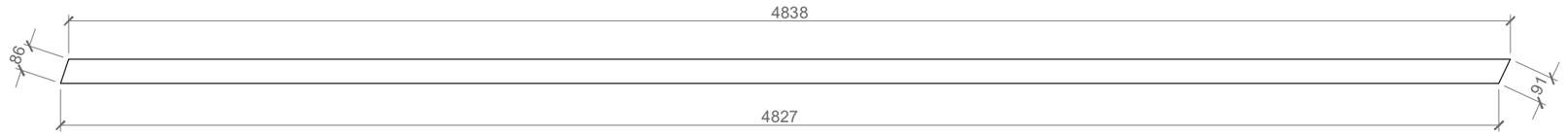

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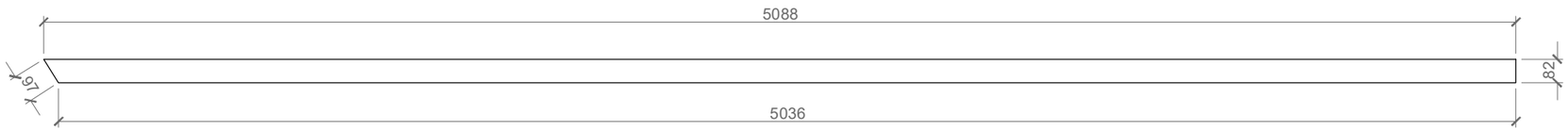
B-51

B-52a



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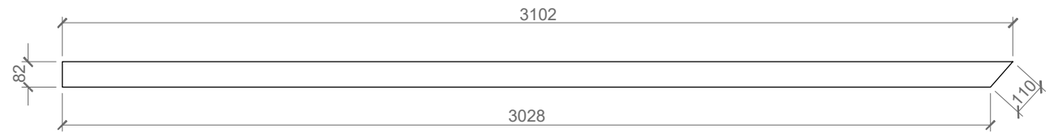

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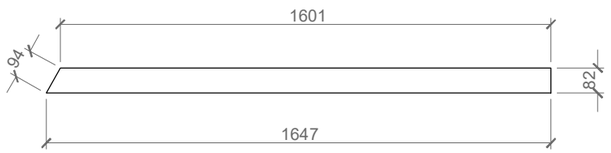

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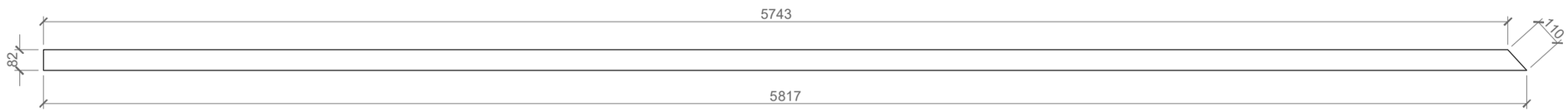

A3

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University of Applied Arts Vienna

DRAWING
Roof -2
Beam Schedule

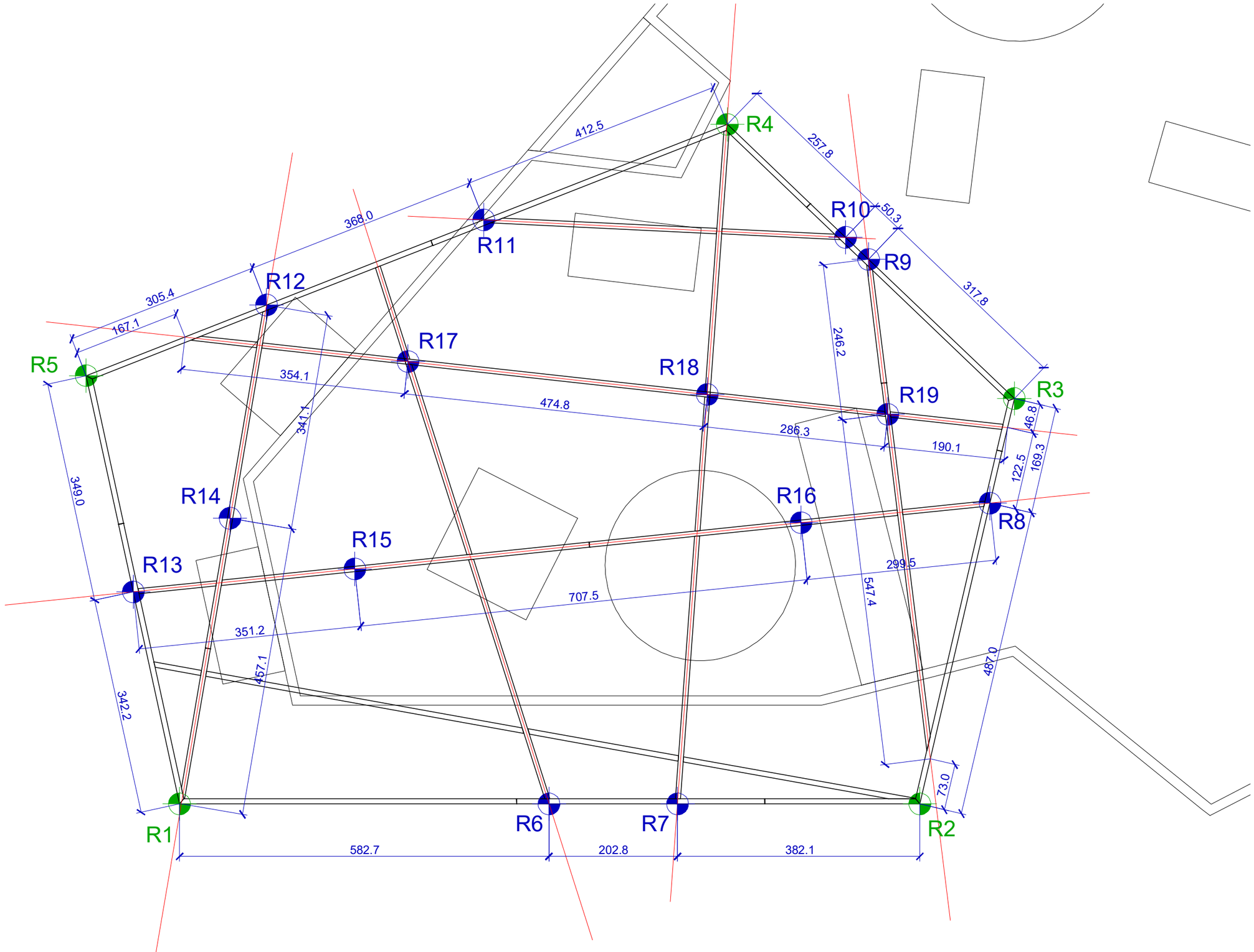
AUTHOR
Toms Kampars

SCALE
1:20

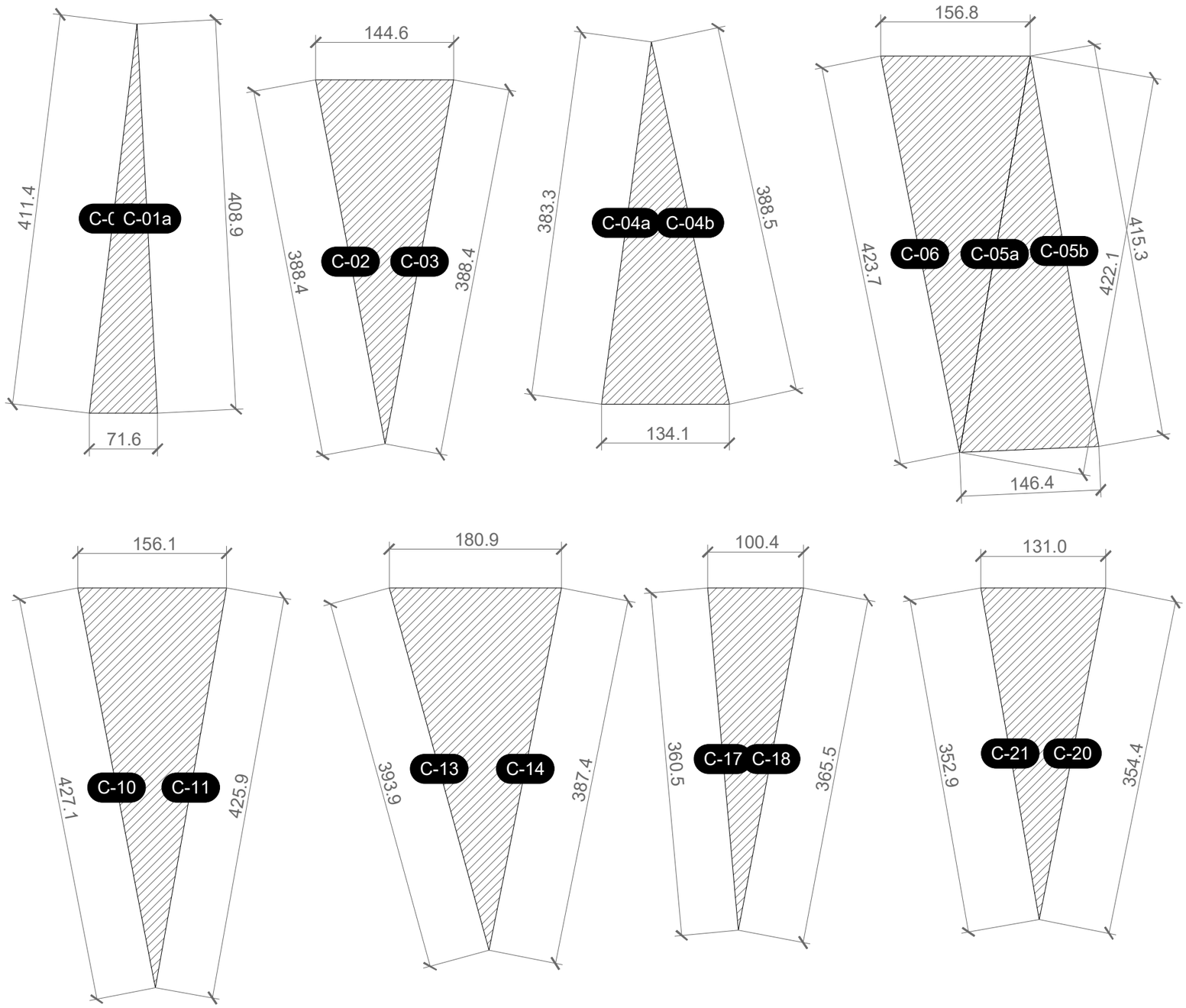
DATE
2019 / 02 / 07

REVISION
A

ARCHIVE TITLE
GM_A611_beam_schedule_7



on-site sketch for the placement of scaffolding



on-site sketch for cross-checking the dimensions
of the column triangles