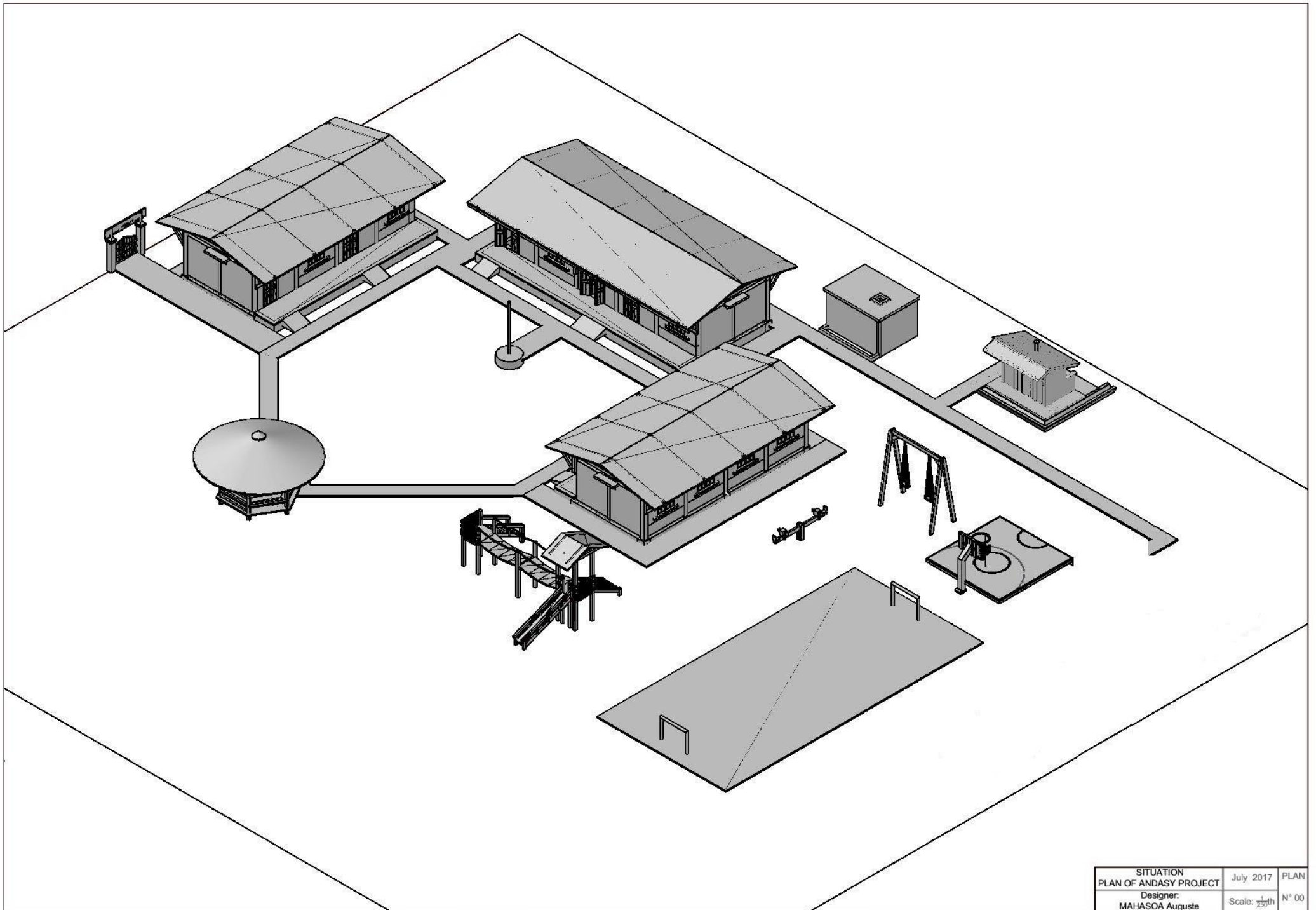


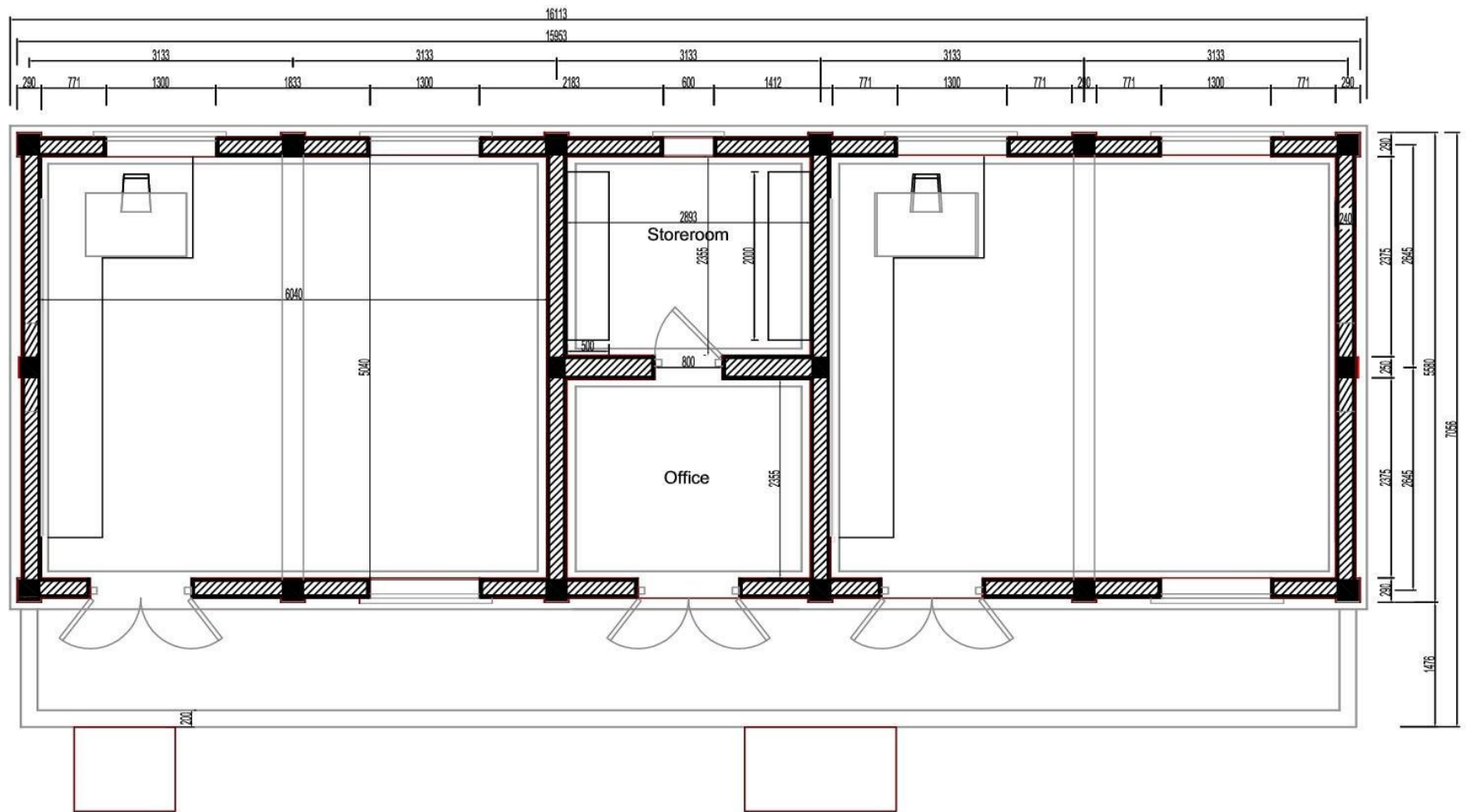
ANDASY PROJECT

Andasy project consist of building a rural public school with six classrooms :

- I. School has two classrooms, an office and a storeroom**
- II. Two identical schools with two classrooms each (04 classrooms)**
- III. Water Tank 7 cubic meter**
- IV. Mini basket-ball area**
- V. Latrines three Boxes**
- VI. External fitting out**
- VII. School Furnitures and Games**
- VIII. Security for workmen**



SITUATION PLAN OF ANDASY PROJECT	July 2017	PLAN
Designer: MAHASOA Auguste	Scale: $\frac{1}{250th}$	N° 00

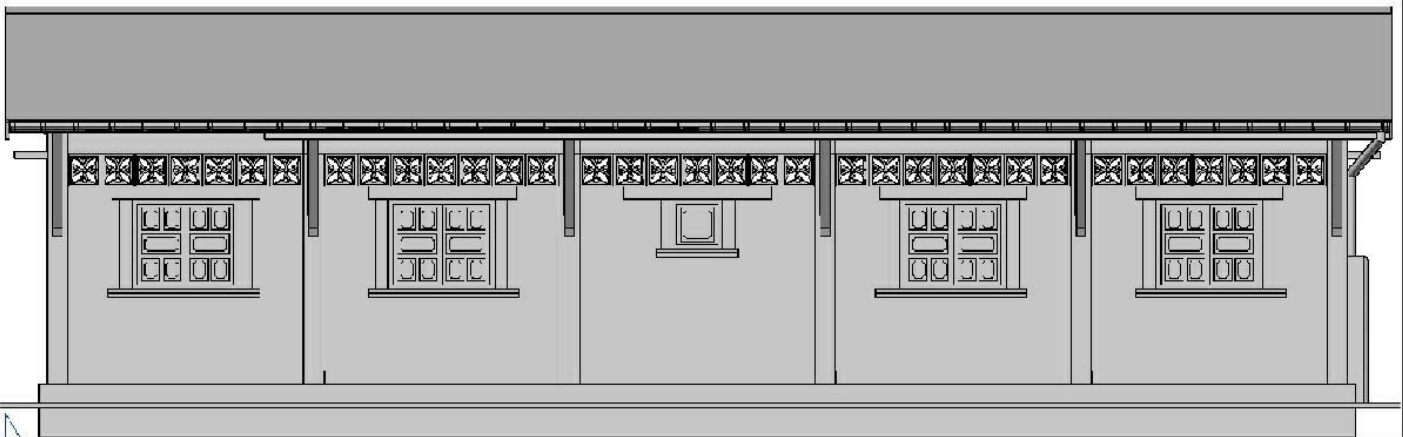


PLAN OF SCHOOL HAS OFFICE	July 2017	PLAN
Designer : M. Auguste + 261 34 61 217 61	Scale: $\frac{1}{70}e$	N° 02

Front view



Rear view



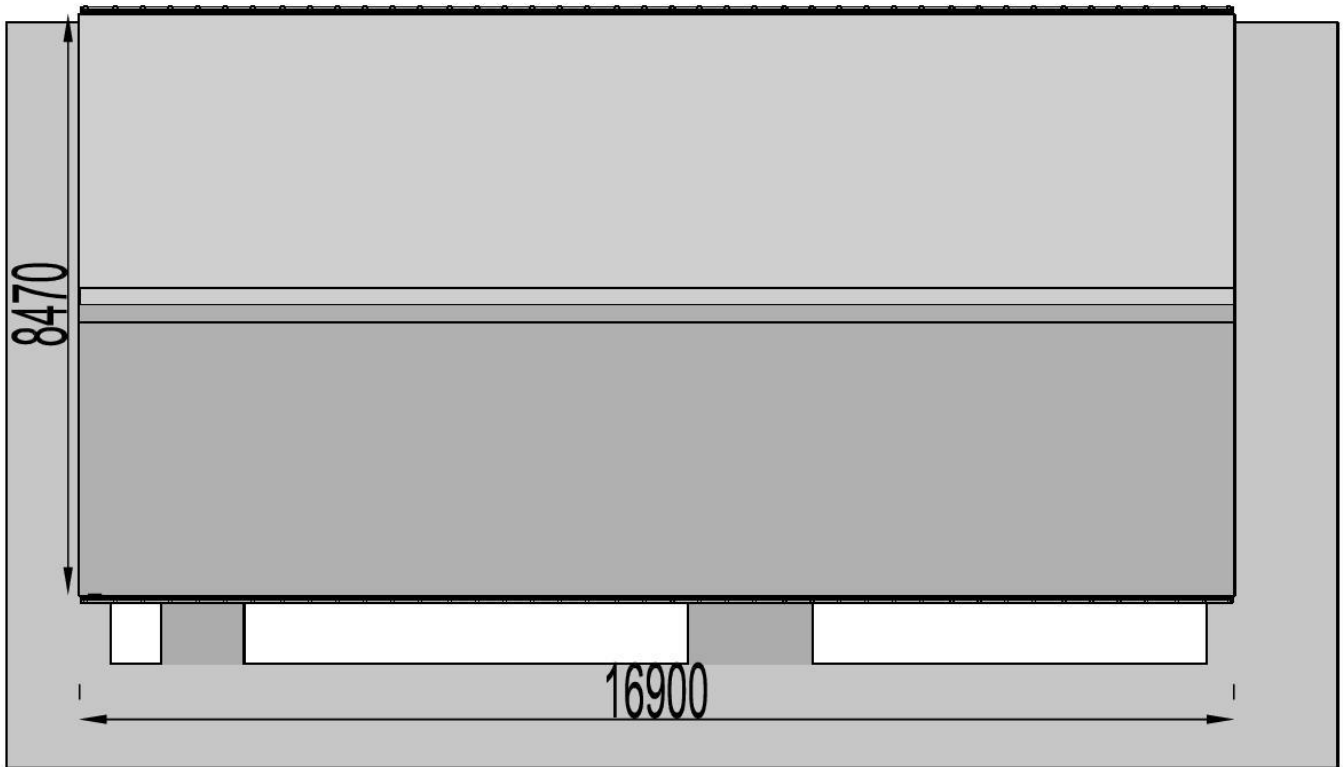
Designer:
MAHASOA
Auguste

Front
&
Rear view

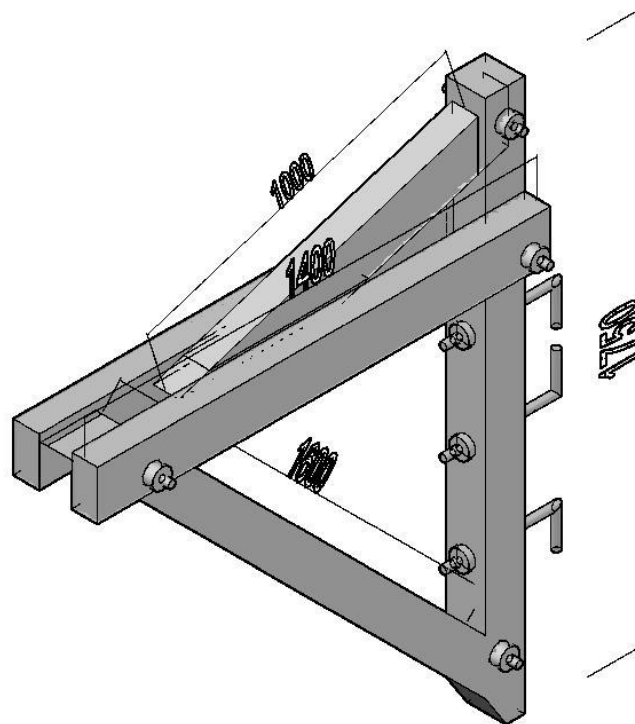
July 2017
Scale: $\frac{1}{100}e$

PLAN
N° 04

Covering



Half timber trusses



Designer:
MAHASOA
Auguste

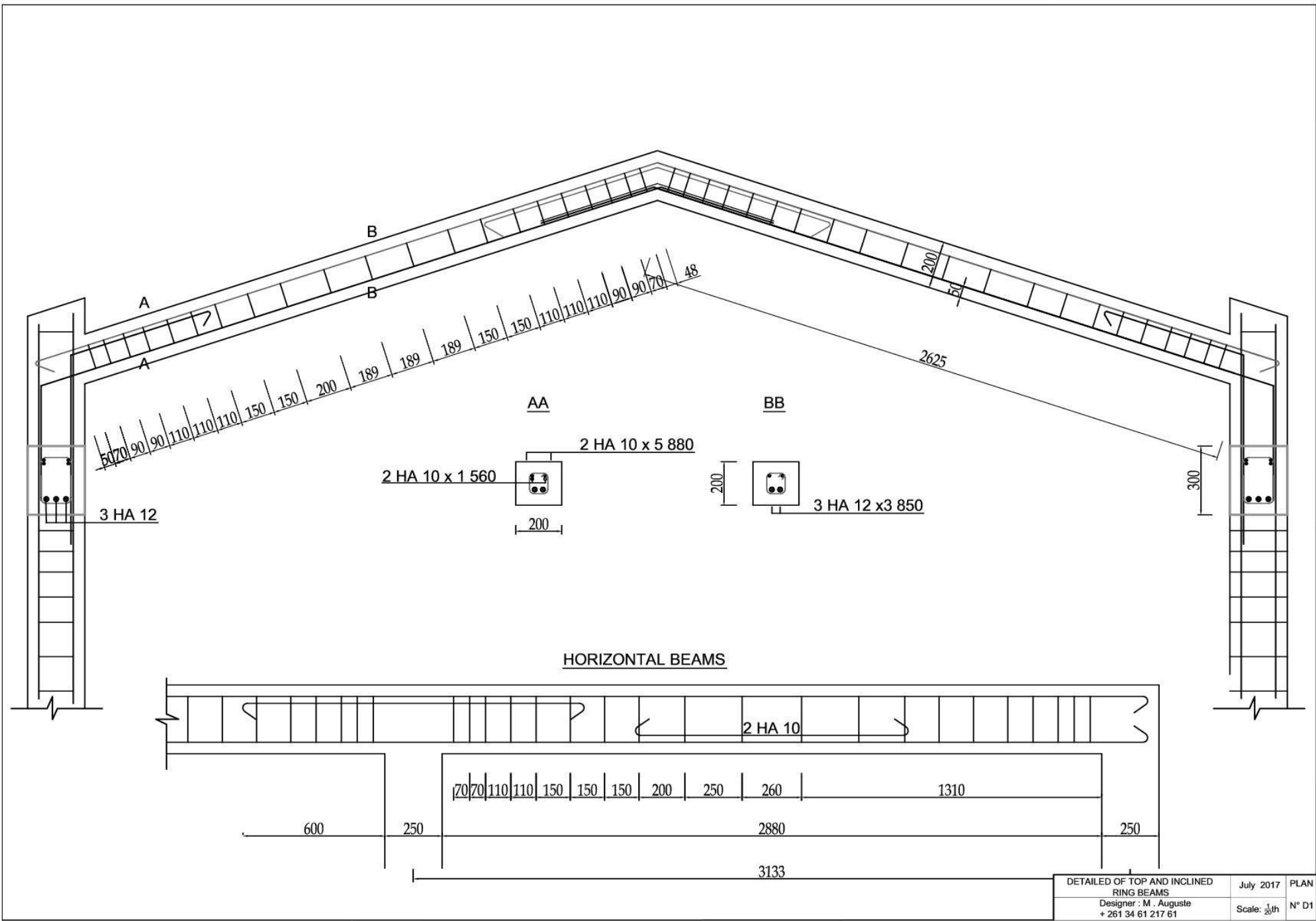
Covering
&
Timber truss

July 2017

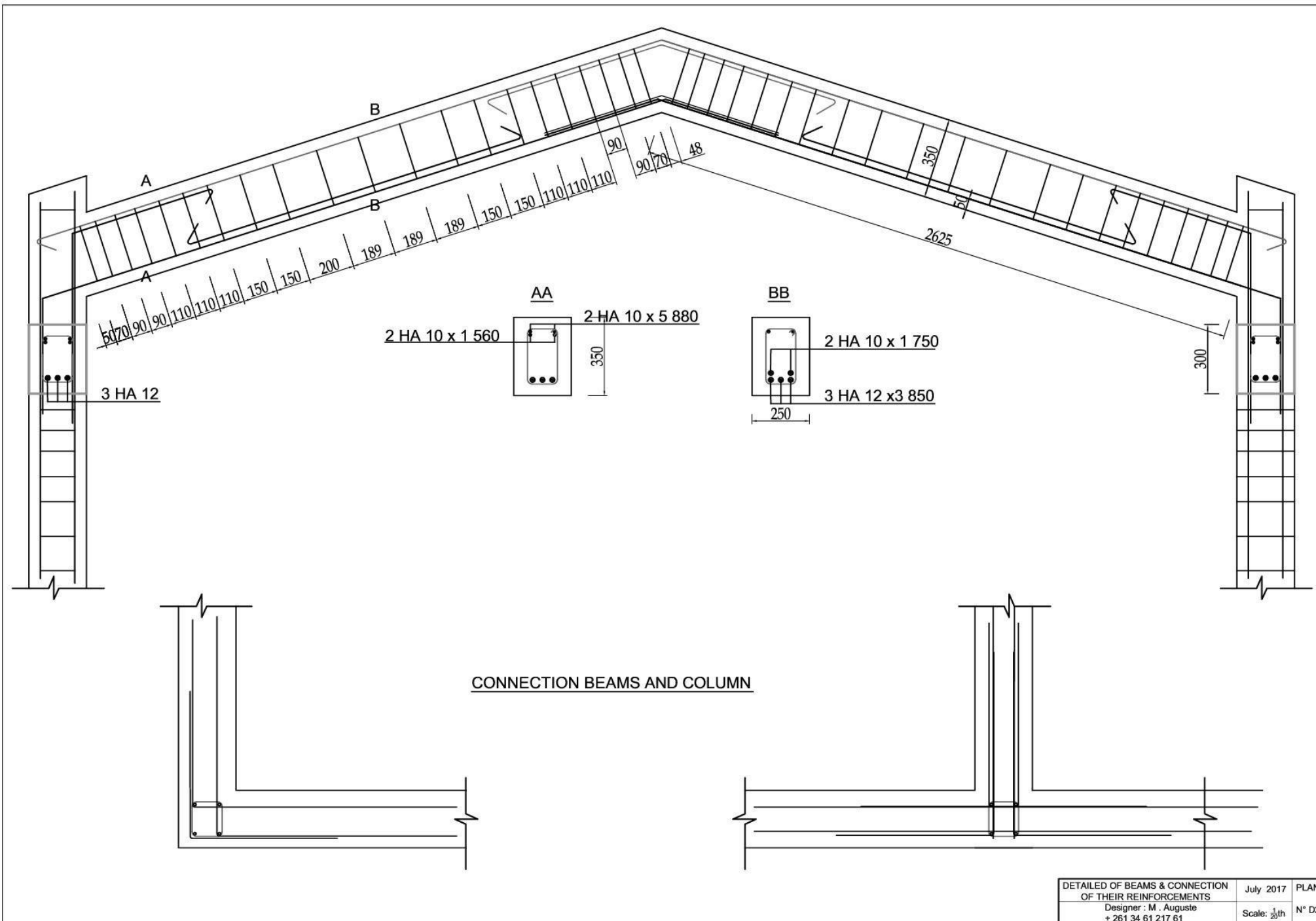
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PLAN

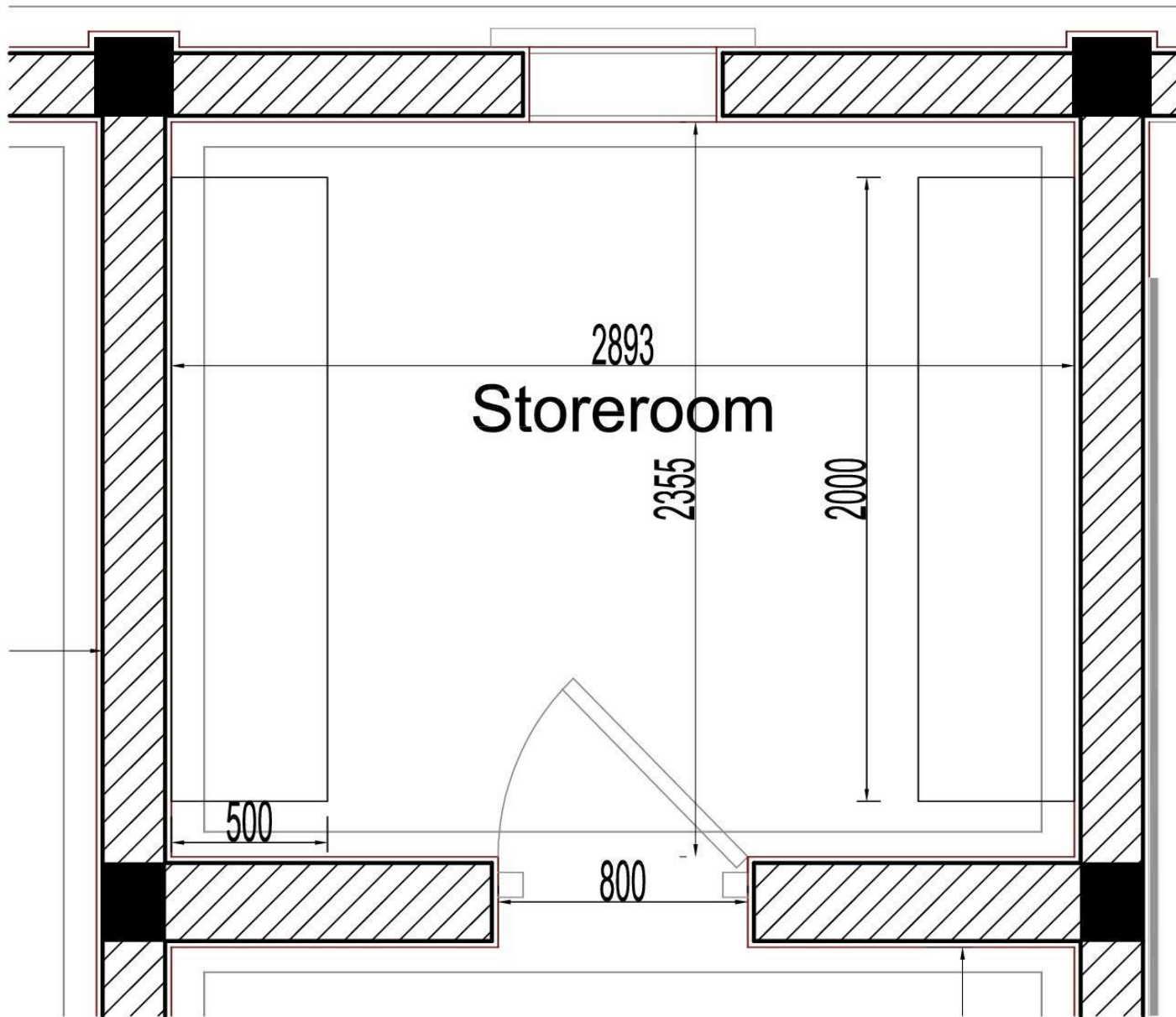
N° 05

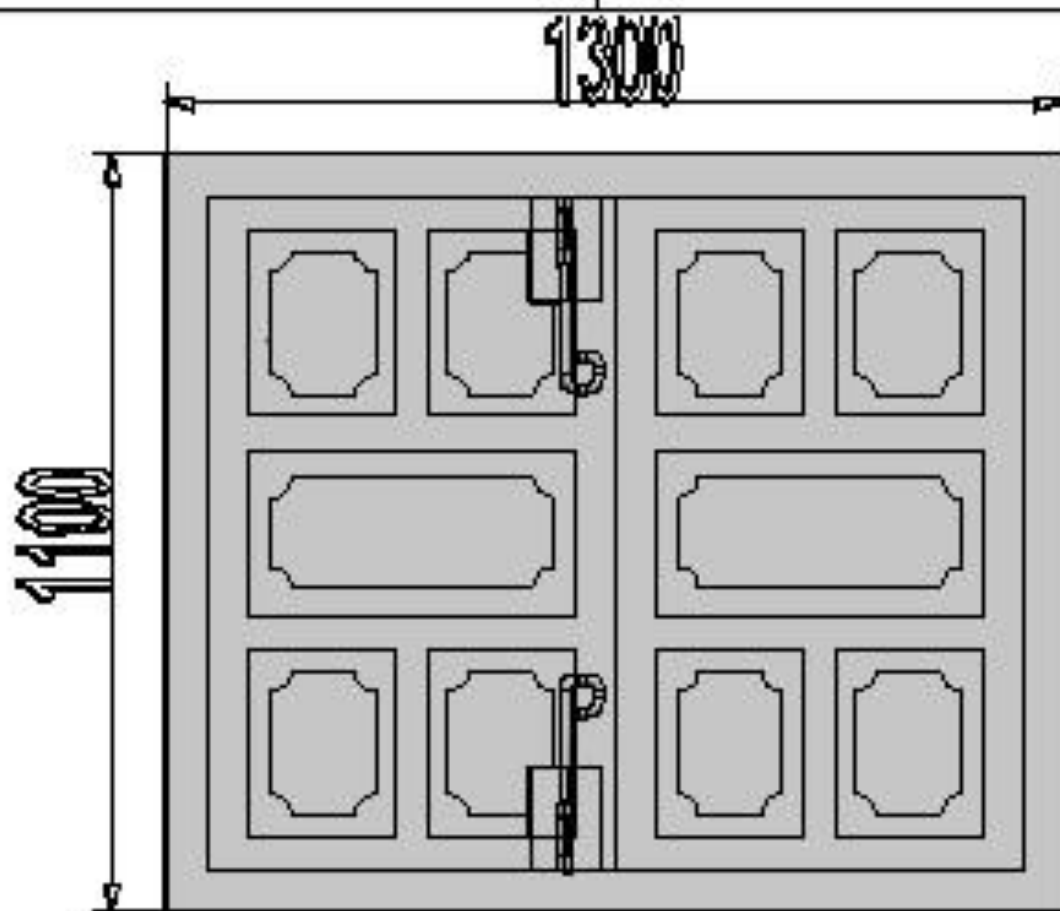
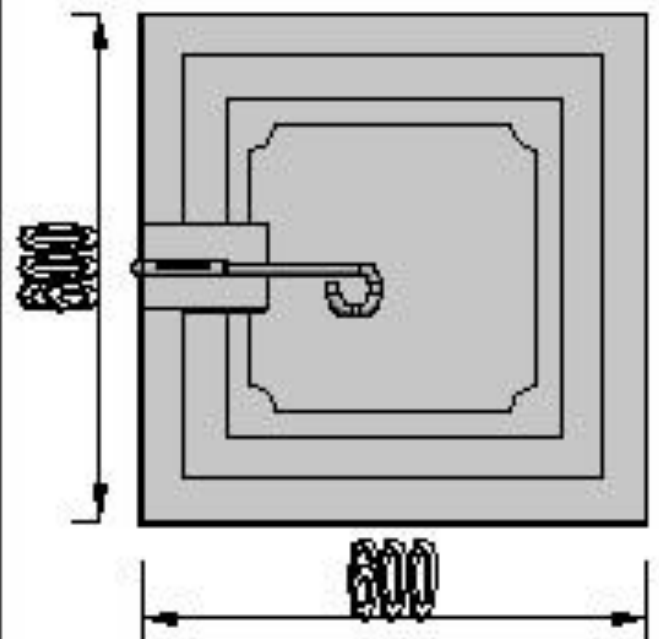
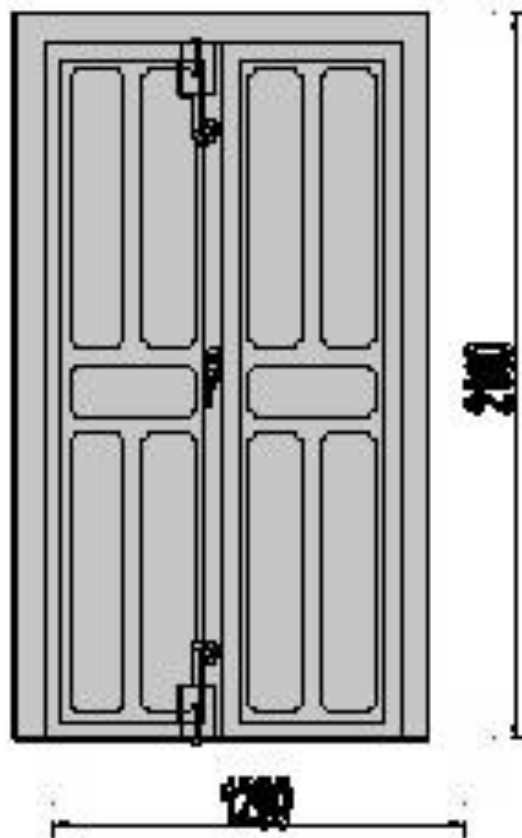


DETAILED OF TOP AND INCLINED RING BEAMS Designer : M . Auguste + 261 34 61 217 61	July 2017 Scale: $\frac{1}{20}$ th	PLAN N° D1
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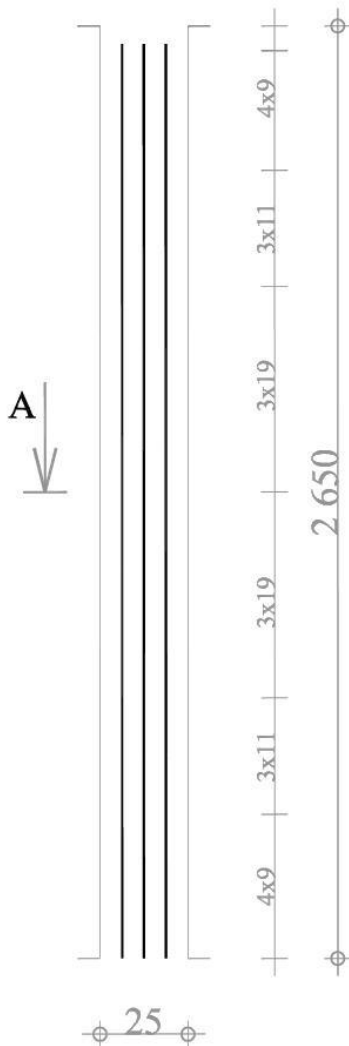
DETAILED OF BEAMS & CONNECTION OF THEIR REINFORCEMENTS Designer : M . Auguste + 261 34 61 217 61	July 2017 Scale: $\frac{1}{20}$ th	PLAN N° D2
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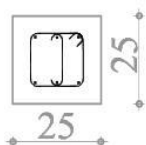


Door - Windows

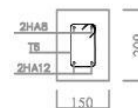
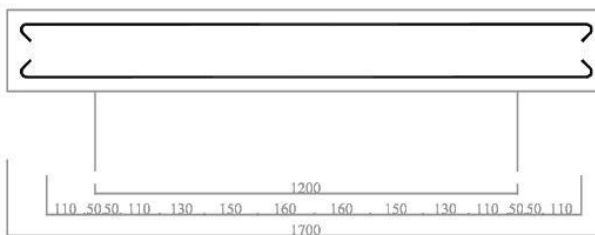
COLUMN 250x250



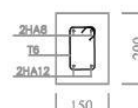
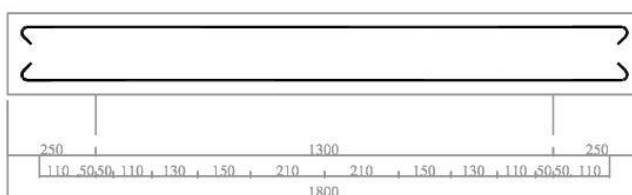
A-A



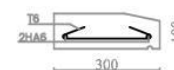
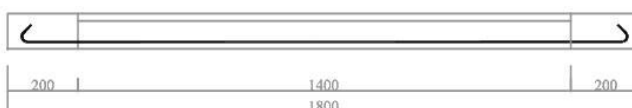
Lintel in reinforced concrete of doors



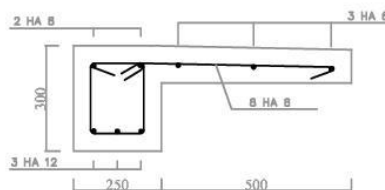
Lintel in reinforced concrete of doors



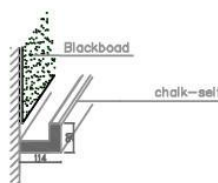
Window sill in reinforced concrete



Weather-board

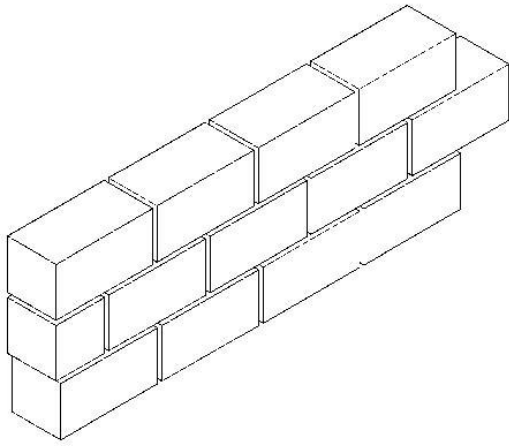


Chalk-self

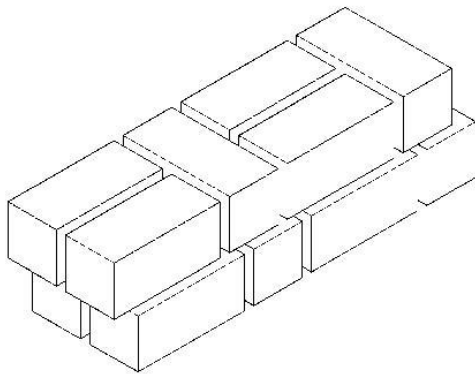
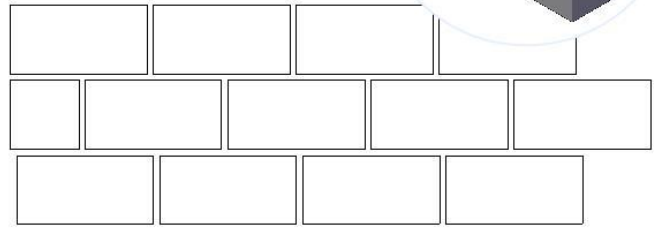
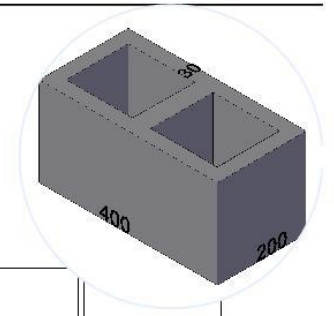


Detailed

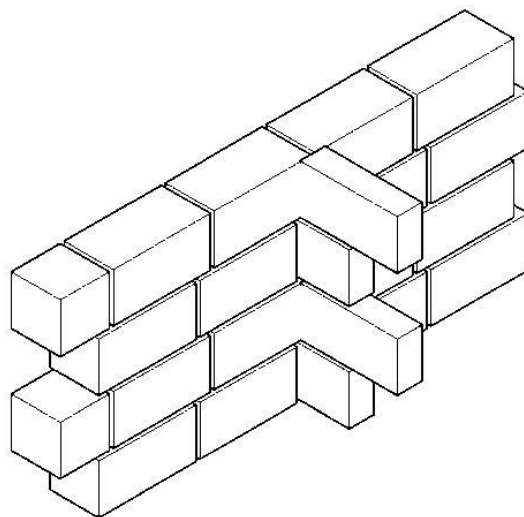
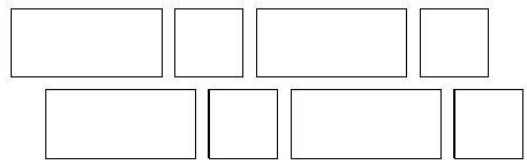
Scale: $\frac{1}{20}e$



Hollow blockwork, 200mm of thickness

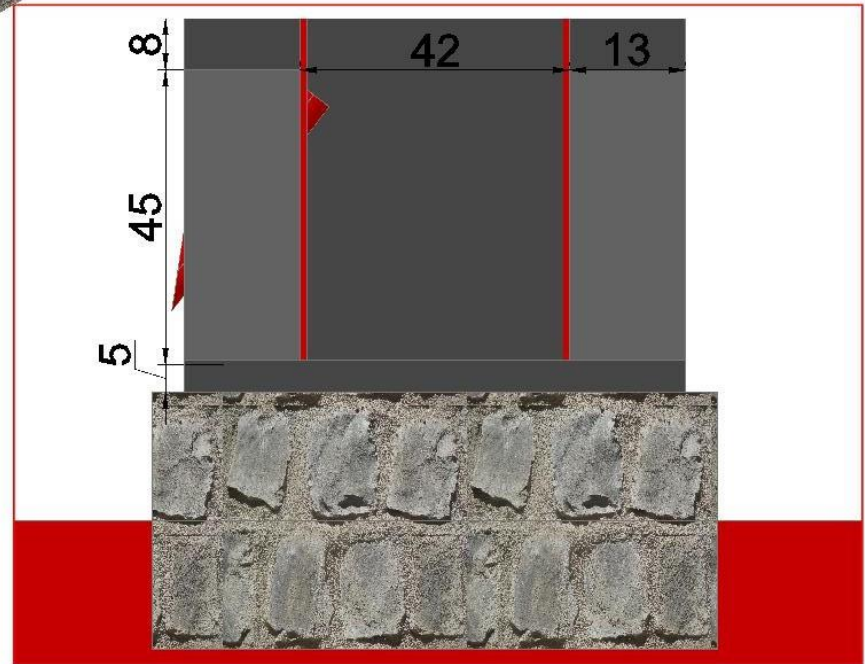
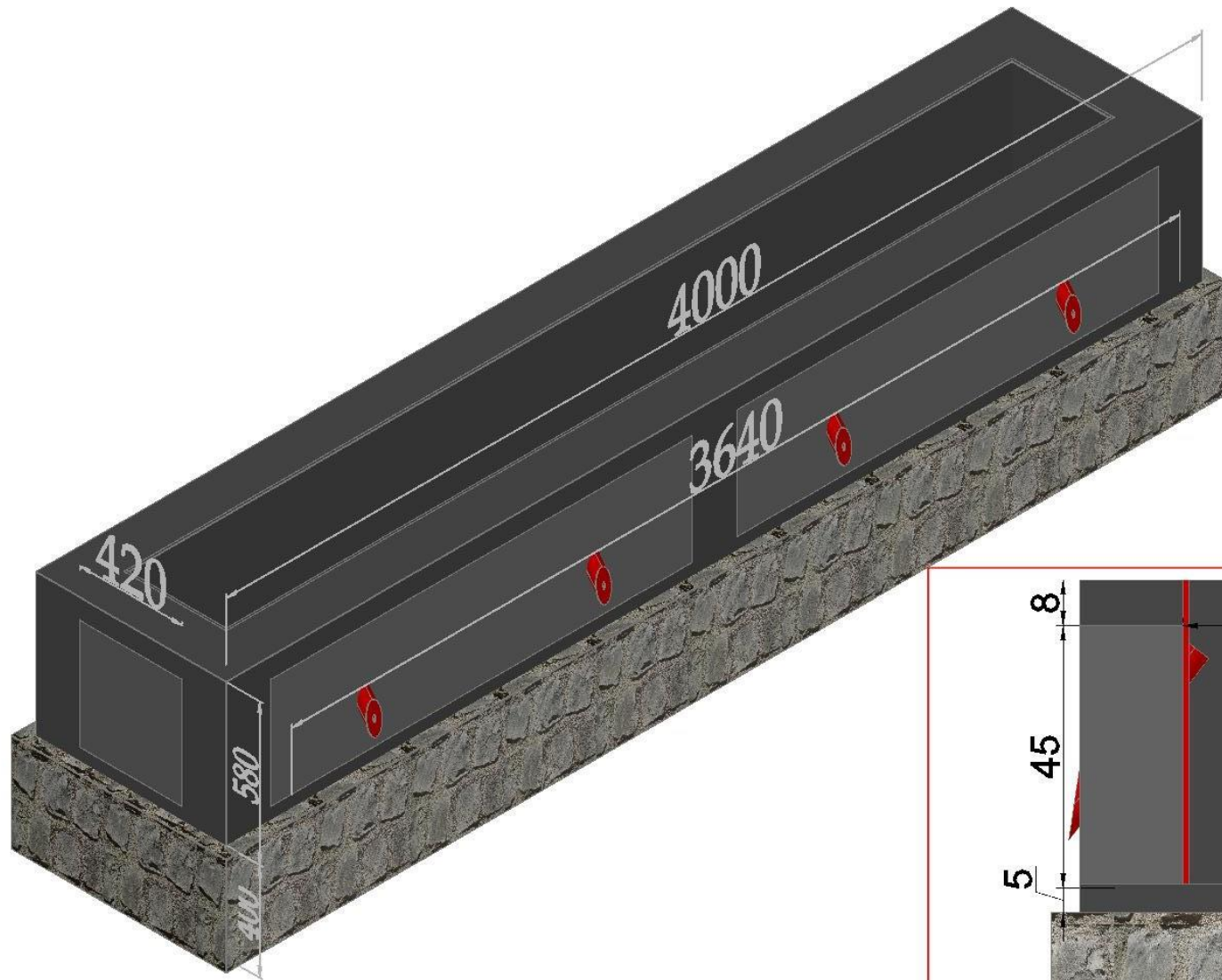


Brickwork, 200mm of thickness

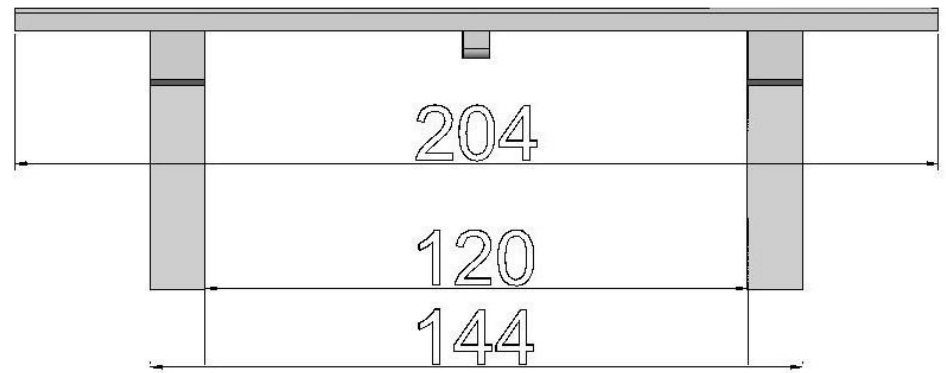
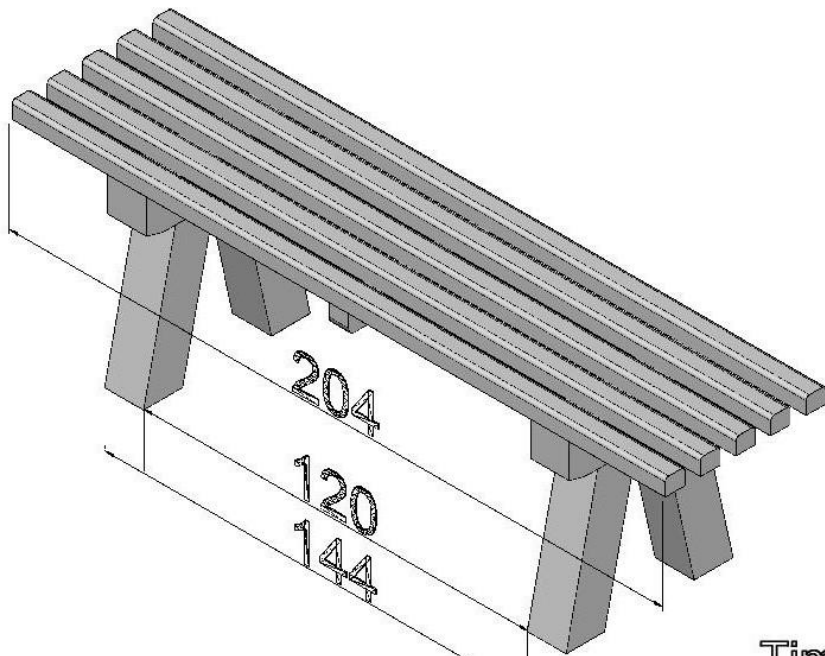
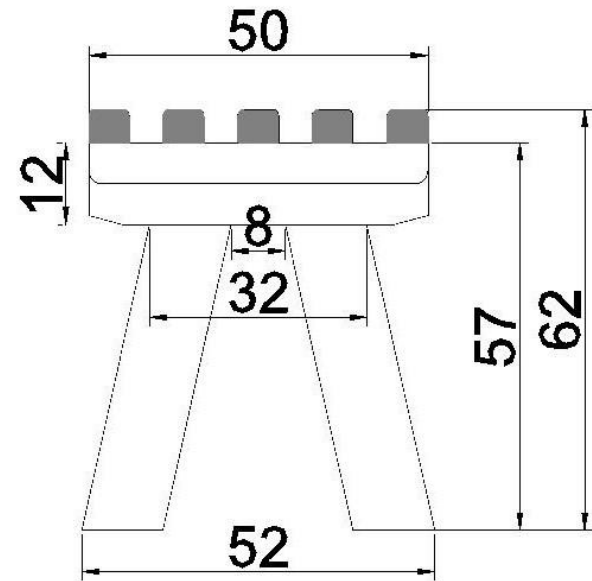
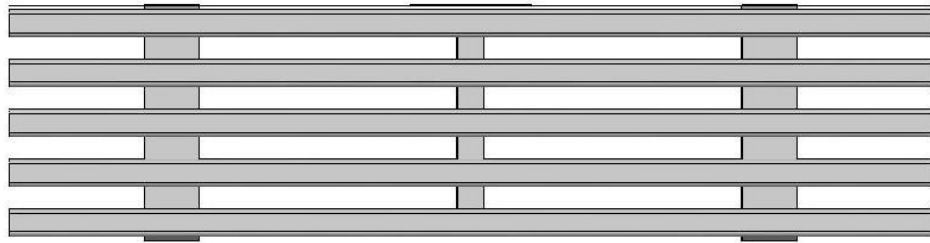


Partition
wall of
latrine

Hollow blockwork, 200mm and 100mm of thickness



Flower pots



Timber bennches

Auguste

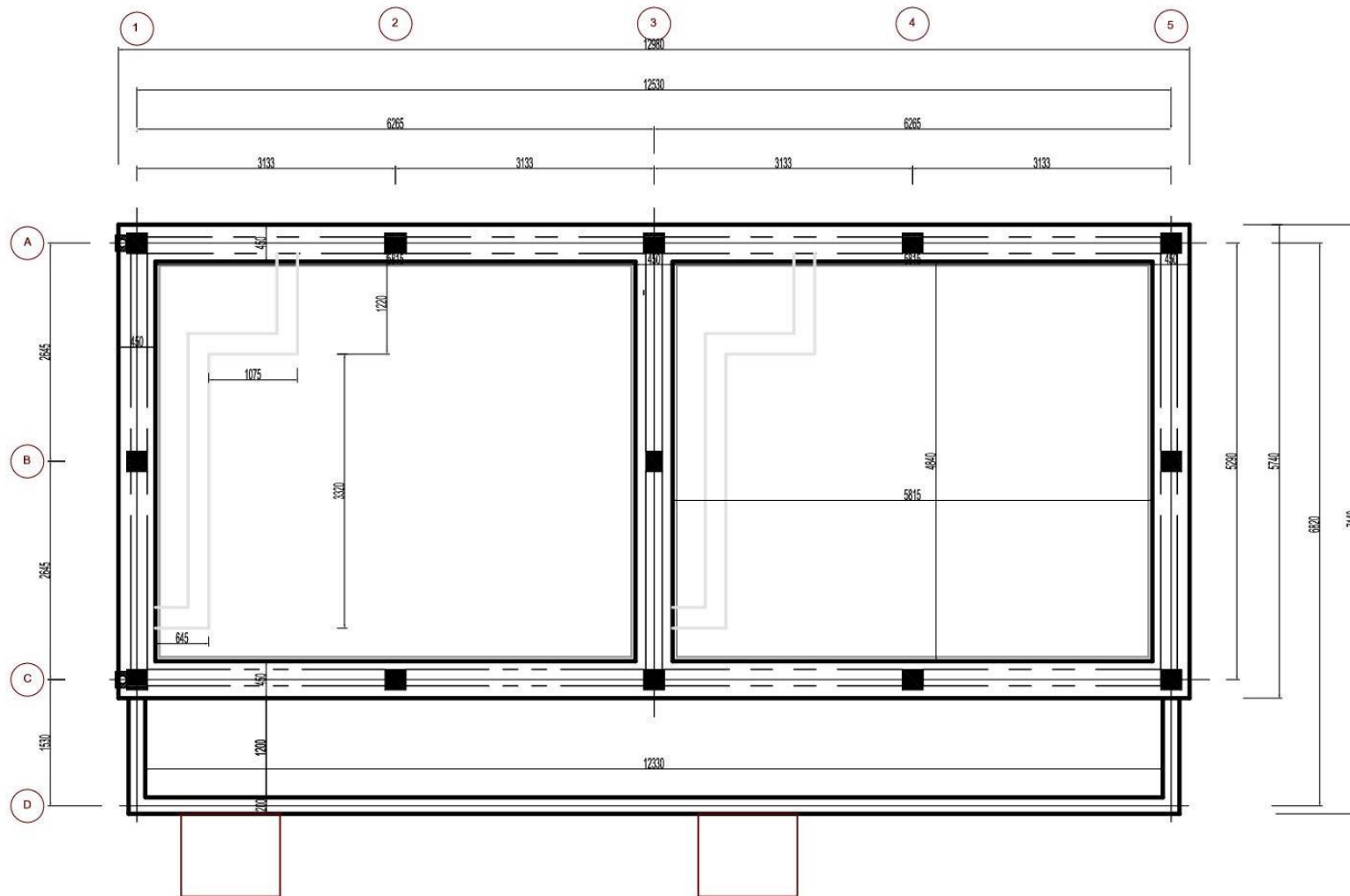
b. Description Of The Work

N°	Designation of the works	Concerning	Observations
	0- INSTALLATION AND CLOSING DOWN OF THE SITE		
0.1	Installation and closing down	Site	Transporting materials, workforces, building sheds, temporary WC , digging for dustbin,....and even to fill in at closing down of the site
	I- EARTHWOORK		
I.1	Grass removing and topsoil stripping	footprint of a building	Preparing of the footprint
I.2	Trench excavation for foundation	Foundation of the school and front stonework of veranda	Trenching needed by the foundations
I.3	Compacted layer of backfill from trench excavation	Foundation and internal of the school	From Trench excavation
I.4	Charging and excess evacuation	Un-used and should be evacuated from site	Put into a place authorised by the control
	II- SUBSTRUCTURE WORK		
II.1	Bedding concrete	Under all foundation beams and front cut-off wall of veranda	50mm of thickness
II.2	Reinforced concrete	Ground beams: 450x300mm and Columns 250x250mm	Gauge: one bag of cement + two wheel barrow of clean river sand and three for gravels
II.3	Shuttering in ordinary plank	Ground beams: 450x300mm and Columns 250x250mm	including abutment in round timber
II.4	Iron bars for all diameters	Ground beams: 450x300mm and Columns 250x250mm	TQF iron bar couldn't be used. reinforcement cover: 50mm
II.5	Stone bedding 40/70 for ground slab	Internal and external ground slab ; teaching plinth	80mm of thickness
II.6	Ordinary concrete for ground slab	Internal and external ground slab ; teaching plinth	50mm of thickness
II.7	Masonry of stonework	Above ground beams and front cut-off wall of veranda	Gauge: one bag of cement + three wheel barrow of clean river sand
	III- SUPERSTRUCTURE WORK		
III.1	Reinforced concrete	Columns, ring beams, beams, lintels, sill of windows, weather-boards	Gauge: one bag of cement + two wheel barrow of clean river sand and three for gravels
III.2	Shuttering in ordinary plank	Columns, ring beams, beams, lintels, sill of windows, weather-boards	Planned plank
III.3	Iron bars for all diameters	Columns, ring beams, beams, lintels, sill of windows, weather-boards	TQF iron bar couldn't be used. reinforcement cover: 50mm
	<i>Total Superstructure Work</i>		
	IV- MASONRY AND RENDERING		
IV.1	Front hollow Brickwork (filling under steel sheet)	Only in front of the school, begin 200mm under sill of windows	Gauge: one bag of cement + three wheel barrow of clean river sand
IV.2	Masonry Hollow block works	The remaining area,	
IV.3	Masonry of vent blocks	Above all front / rear openings and two laterals	section 400x400mm

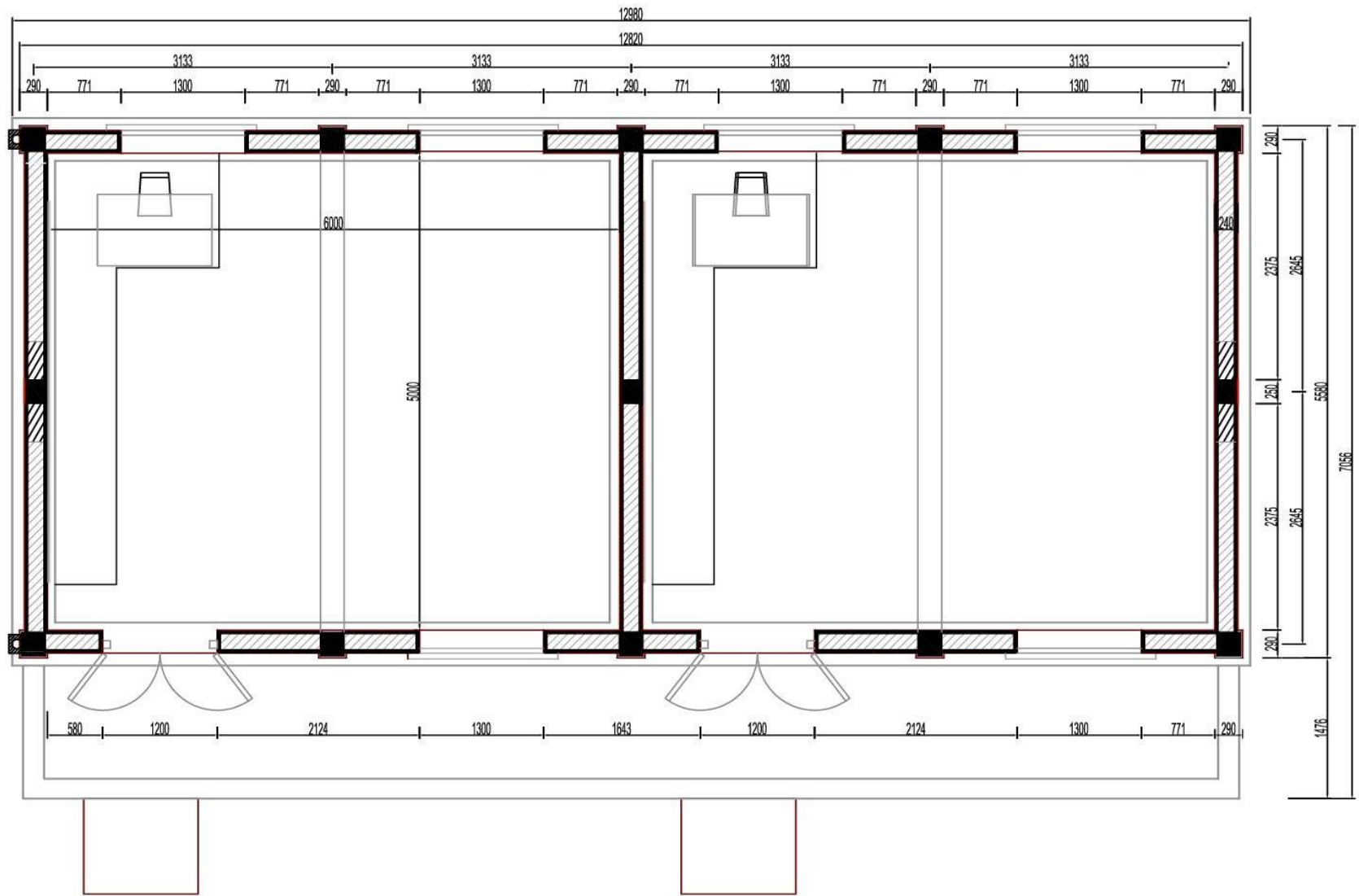
IV.4	Ordinary plastering in cement, 1c + 2,5s	Internal and external wall, visible face of concretes	Thickness : 15mm
IV.5	<i>Screed monolithic</i>	Flooring of all classrooms and veranda	In, has one expansion joint and outside has two to every classrooms
IV.6	Trowelled and smoothing cement for Board	Where there will be blackboards	30mm thickness
V- FRAMEWORK AND COVERING			
V.1	Assembly timber frames (Trusses)	Internal and external timber trusses and half trusses	- Timber 70x160mm - square timber 120x120mm - treated before using
V.2	No assembly timber frames (Purlins)	Purlins	- Timber 60x120mm - square timber 60x60mm - treated before using
V.3	Covering in corrugated iron/steel sheet (Allu-zinc)	Covering of the school	40/10th of metal sheets in Allu-zinc
V.4	Ridge in flat metal sheet (Allu-zinc)	Covering of the school	40/10th of metal sheets in Allu-zinc
V.5	Metallic cleat for purlins	Support of timber purlins	- welded Iron angle section - 3 coach bolt or screw - 2 bolts
V.6	Fascia boards	Edge of the covering, on the four sides	- type hard wood - Width : 200mm - Thickness : 25mm - without unsound knot - treated before using
V.7	Inclined or sloping Ceiling	Under covering in corrugated iron/steel sheet	- type fir wood - Width : 140mm - Thickness : 2mm - without unsound knot - treated before using
V.8	Plastic roof gutter, good quality, gutter bracket every 400mm	Front and rear of the school	- bracket or clip, every 400mm of spacing.
V.9	Downpipe for rainwater, 1000mm diameter	Front and rear of the school	- Pipe hanger in plastic and 2 in one meter - Used system, connecting vessels
VI- WOODWORKS			
VI.1	Windows 1 300 x 1 100mm	Front and rear windows	Double casement windows - 4 Hinges - 2 small flat bolt - Window handle - Lock
VI.2	Window 600 x 600mm	Posterior view and in storeroom	- Simple casement windows - 2 Hinges - 2 small flat bolt - Window handle
VI.3	Doors 1 200 x 2 100mm	front of the school	- Double casement windows - 6 Hinges - 2 small flat bolt - Door handle - Lock
VI.4	Doors 800 x 2 100mm	Door of storeroom	- Double casement windows - 6 Hinges - 2 small flat bolt - Door handle - Lock
VI.5	Four Selves on storeroom, every classrooms	Storeroom and classrooms	Metallic support - Plank in dry red eucalyptus - Varnished

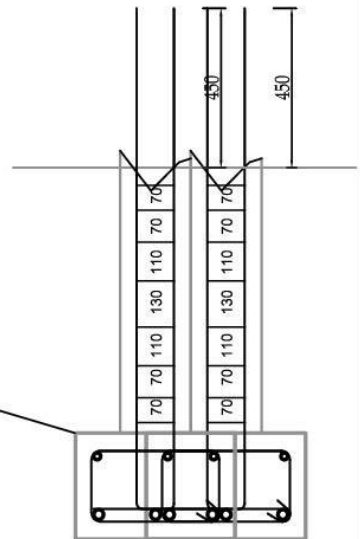
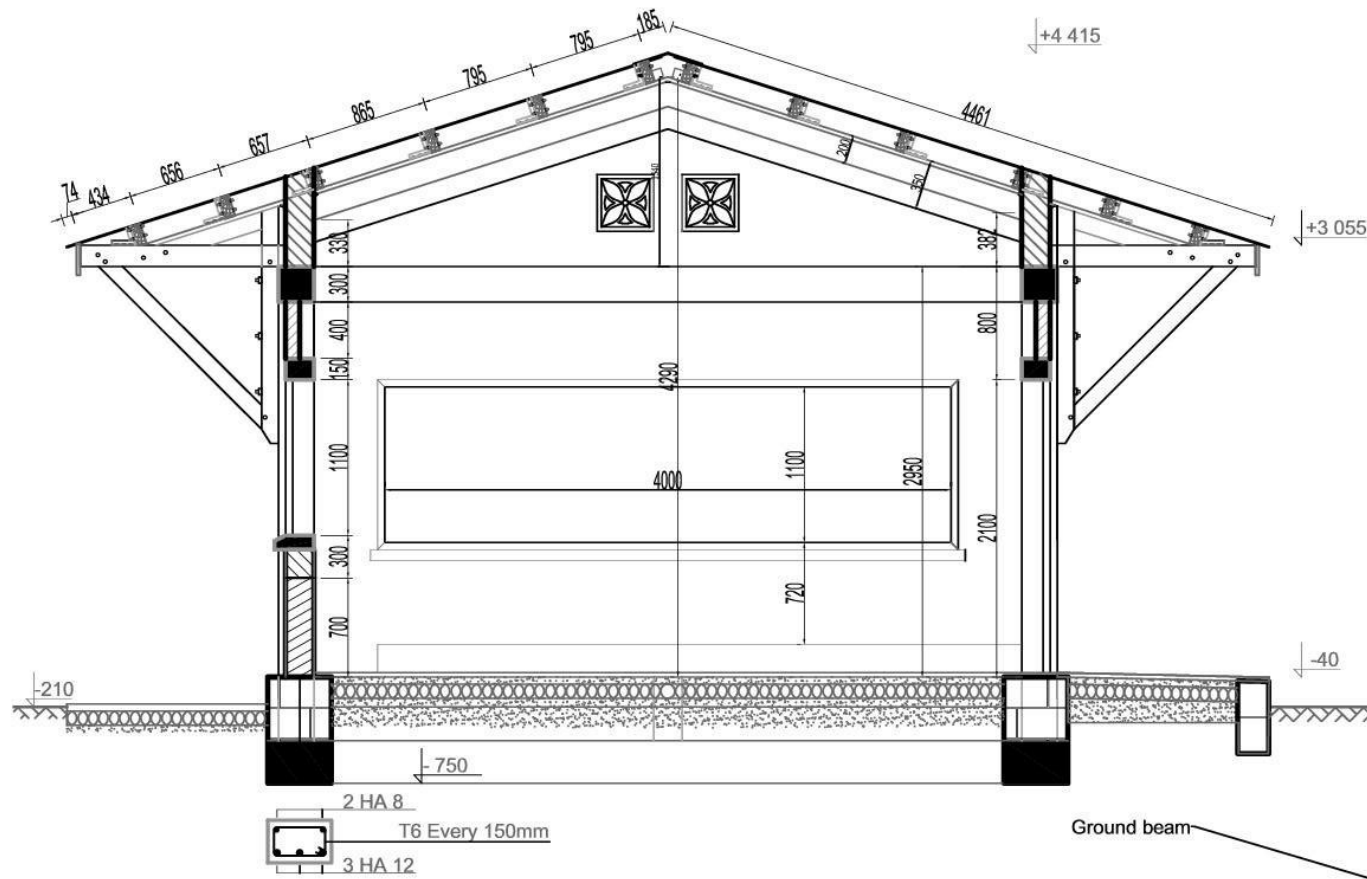
VII- PAINTING			
VII.1	Primary coat in Water paint, for walls and concrete	All internal and external rendered area in cement (wall in brickworks ; hollow block works and visible face of concrete)	White colour
VII.2	Internal and external water paint, for walls and concrete	Internal and external area, all above plinth	Internal and external "Ton pierre"
VII.3	Internal and external oil-based paint, for walls and concrete	Internal and external plinth, 1 500mm height	Two colour different, green 1 100mm height and ivory-coloured 400mm height,
VII.4	Oil paint for all woodworks(Doors, windows, fascia board)	All woodworks	Tree coat of painting and uniform
VII.5	Varnishing of the sloped ceiling	Sloped ceiling	Assembling: Tongued-and-grooved joint - treated before using
VII.6	Painting in black of the board (Ardoisine)	Internal board of the school	Special paint for board "ardoisine"
VII.7	Painting of corrugated steel sheet (Allu-zinc)	Covering of the school	using paint spraying
VII.8	Anti-rust paint for metallic cleat	Support of purlins painted firstly in anti-rust paint	welded Iron angle section and bolts
VIII- DIVERSE			
VIII.1	Flowers pots	Flower to be planted in front of the school	One per classrooms, made with bricks and concrete
VIII.2	Timber benches	Bench for pupils and teachers, only in front of the classroom	All in Timbers, in front of every classroom, fixing is assured by buried bolt
VIII.3	Concrete path around the school	To connect schools and others	Made with compacted Stone bedding 40/70 then ordinary concrete, expansion joint every 2000mm , 1 000mm in wide

c. Different plans



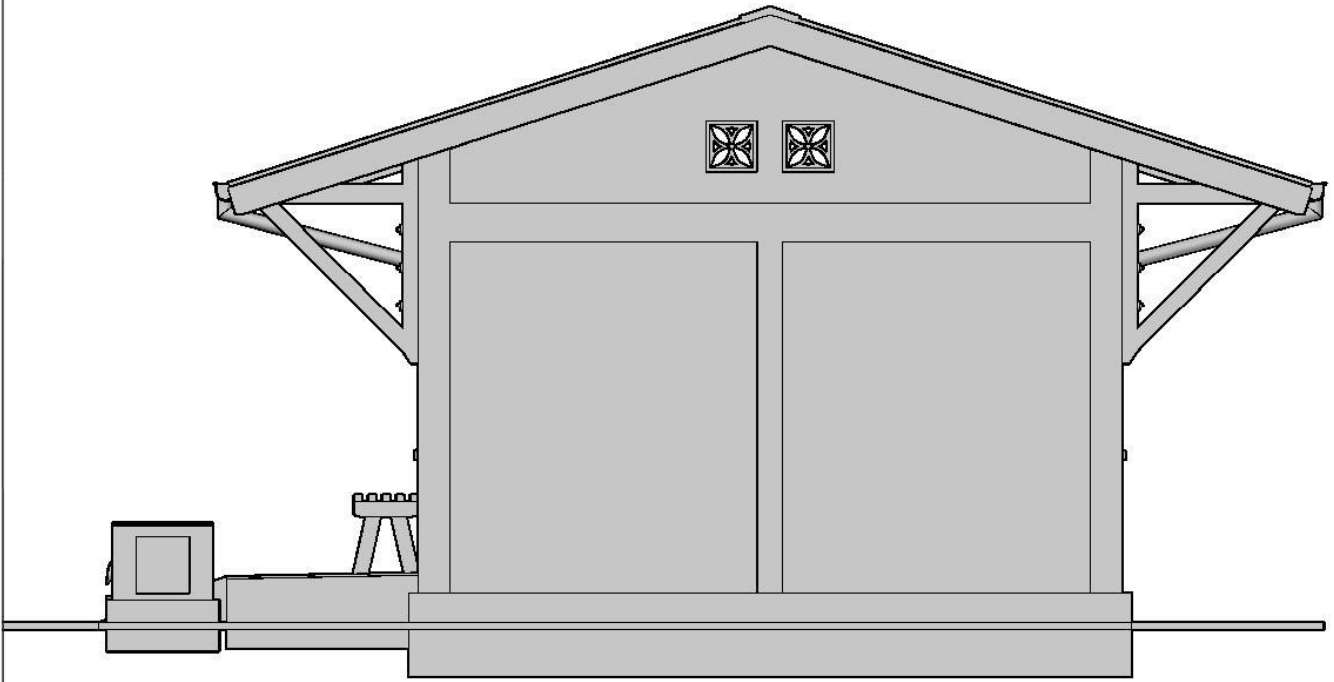
FOUNDATION OF TWO IDENTICAL SCHOOLS	July 2017	PLAN
Designer : M . Auguste	Scale: $\frac{1}{70}$ e	N° 01
+ 261 34 61 217 61		



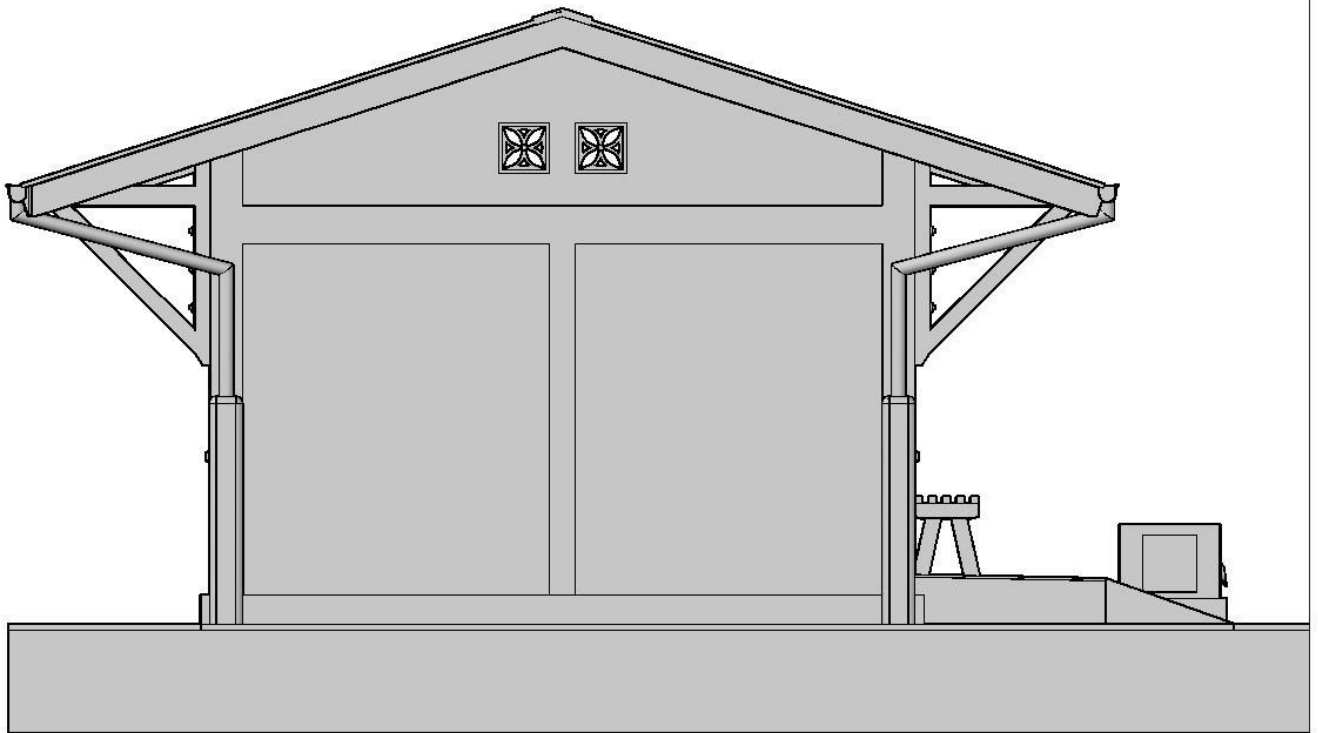


SECTION A A OF THE SCHOOLS	July 2017	PLAN
Designer : M. Auguste + 261 34 61 217 61	Scale: $\frac{1}{50e}$	N° 03

Left view



Right view



Designer:
MAHASOA
Auguste

Left
&
Right view

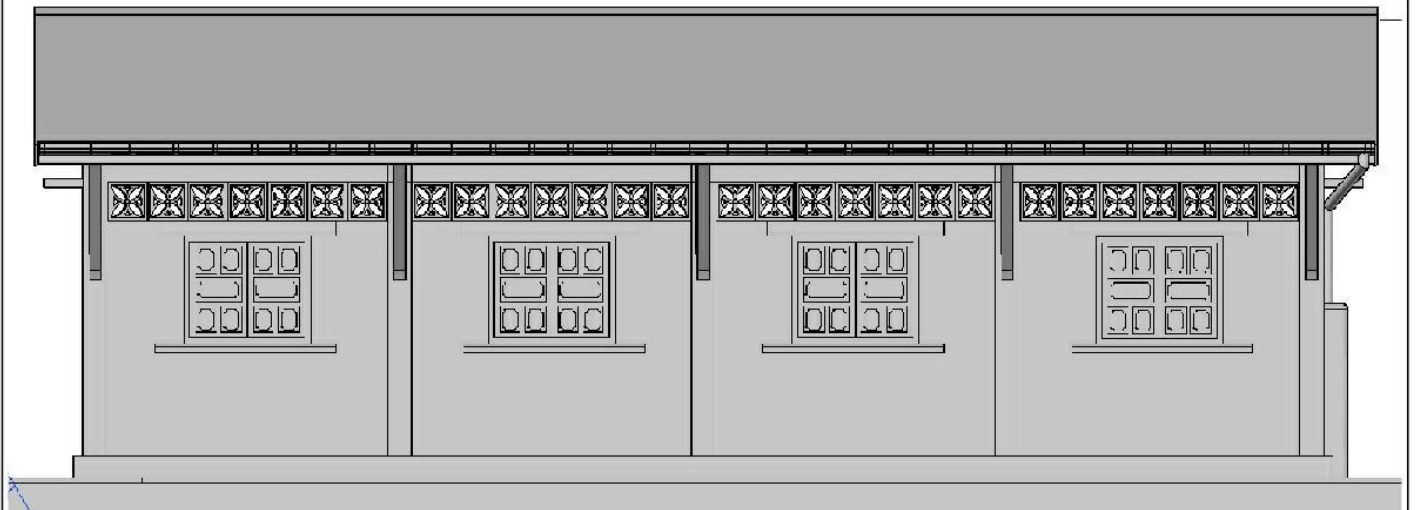
July 2017
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PLAN
N° 03

Front view



Rear view



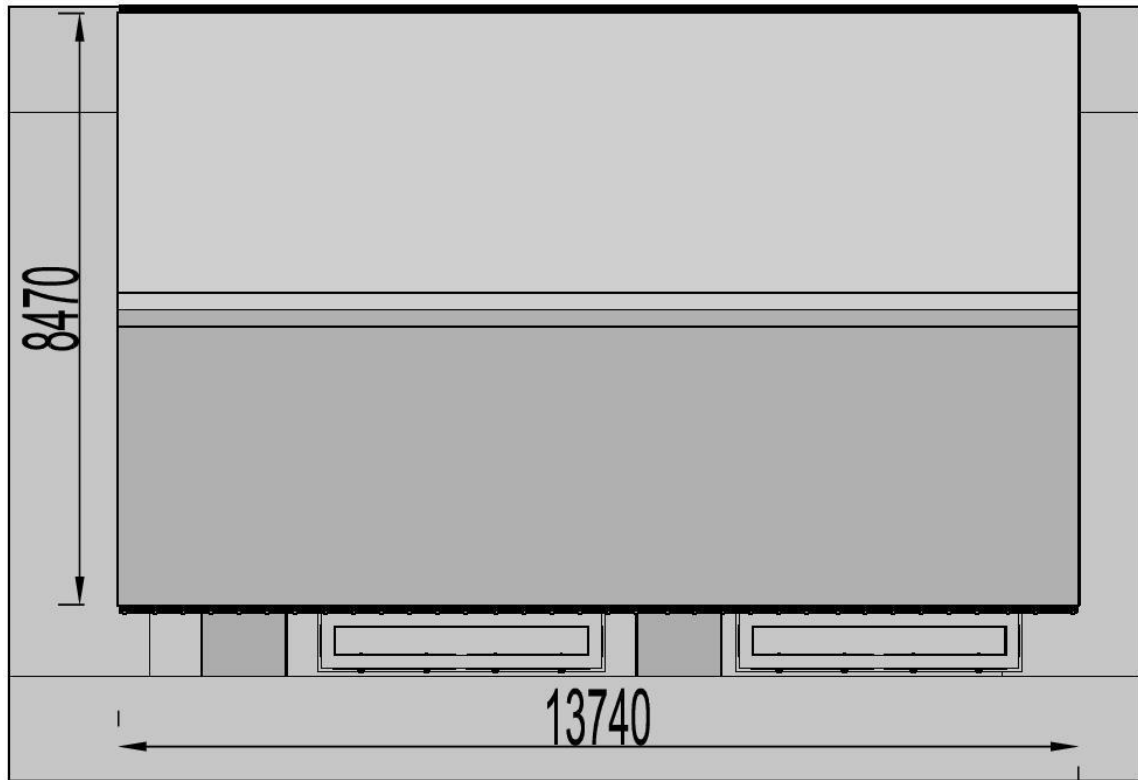
Designer:
MAHASOA
Auguste

Front
&
Rear view

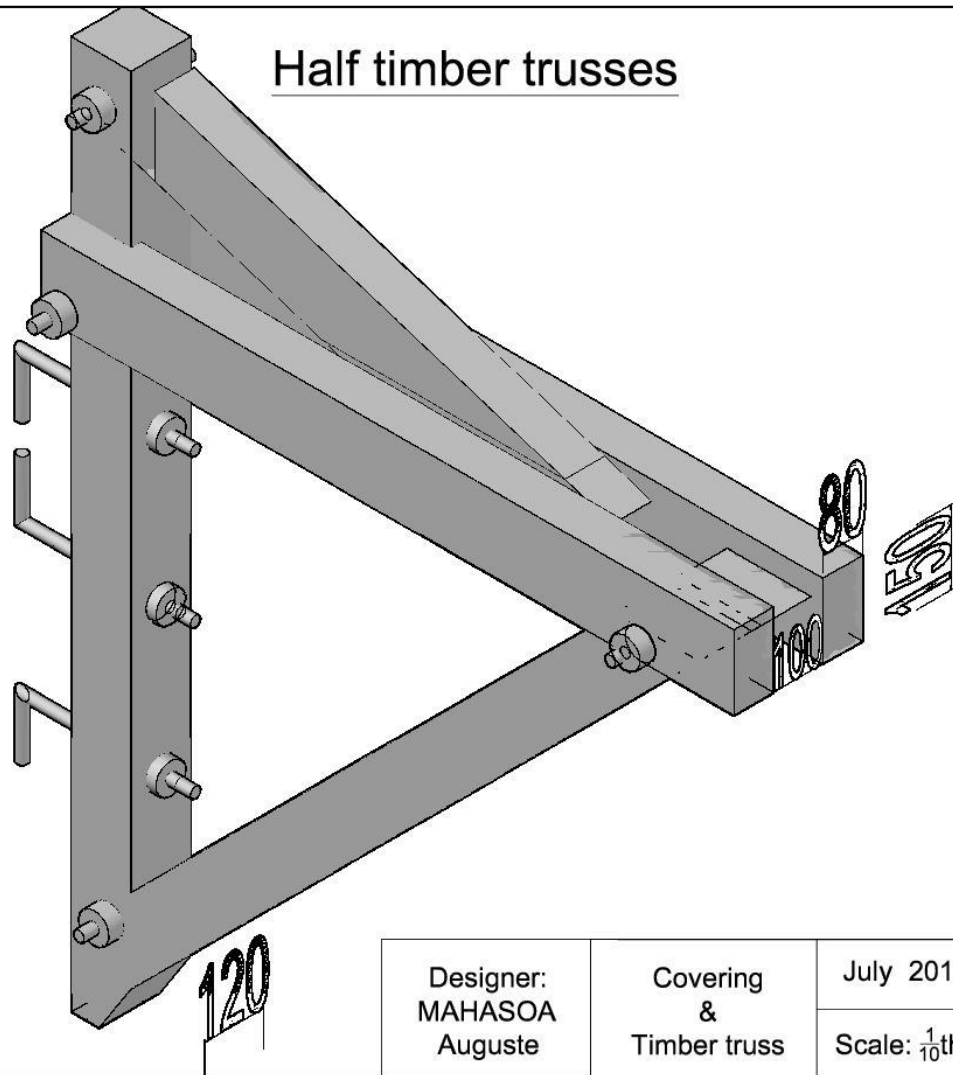
July 2017
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PLAN
N° 04

Covering



Half timber trusses



Designer:
MAHASOA
Auguste

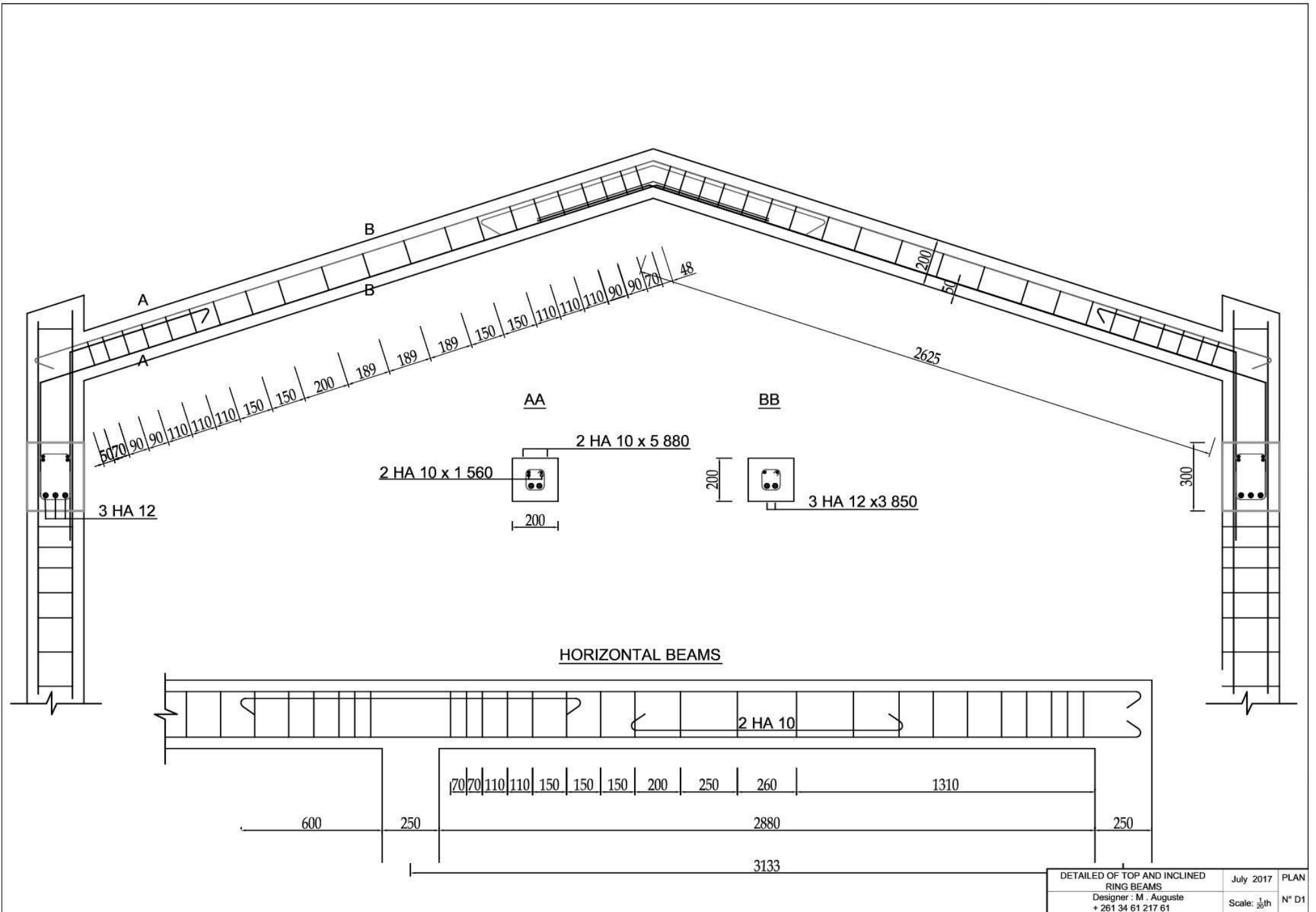
Covering
&
Timber truss

July 2017

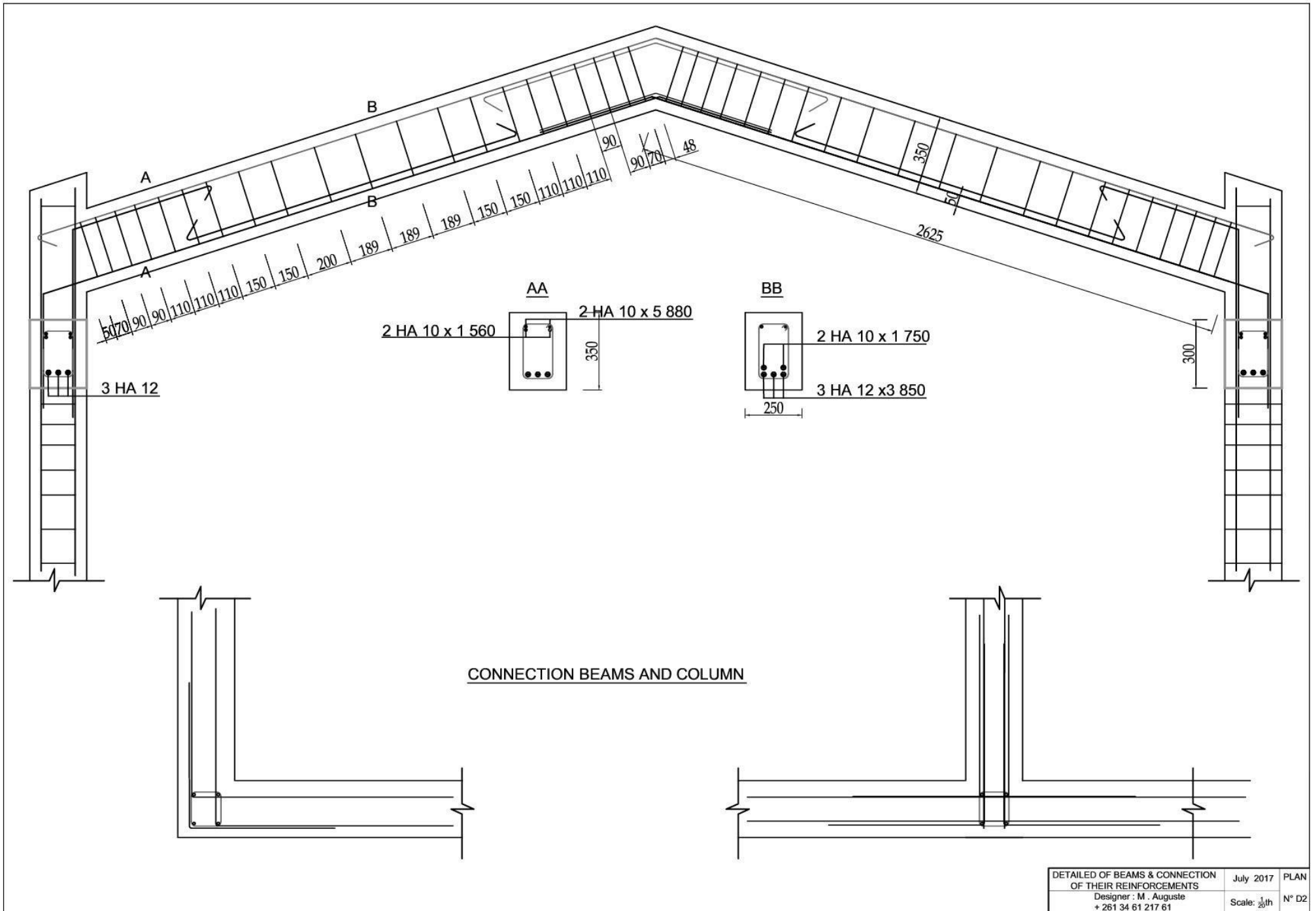
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PLAN

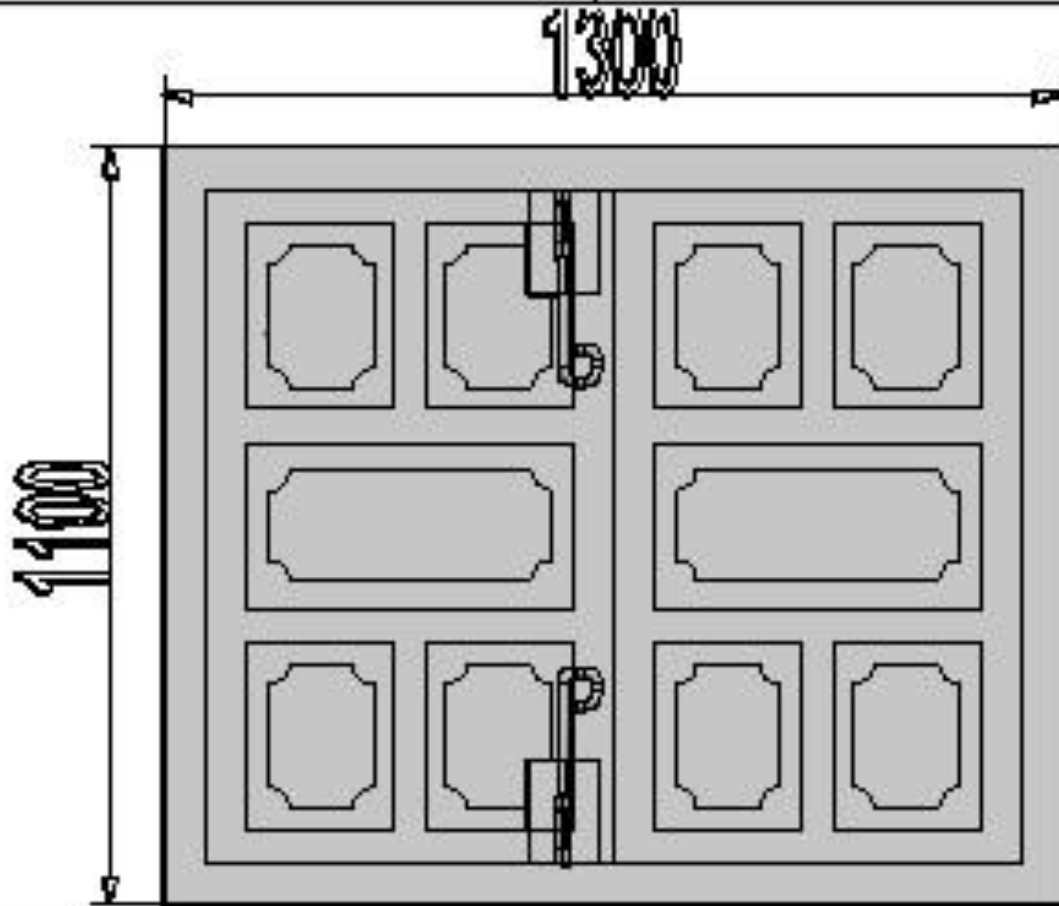
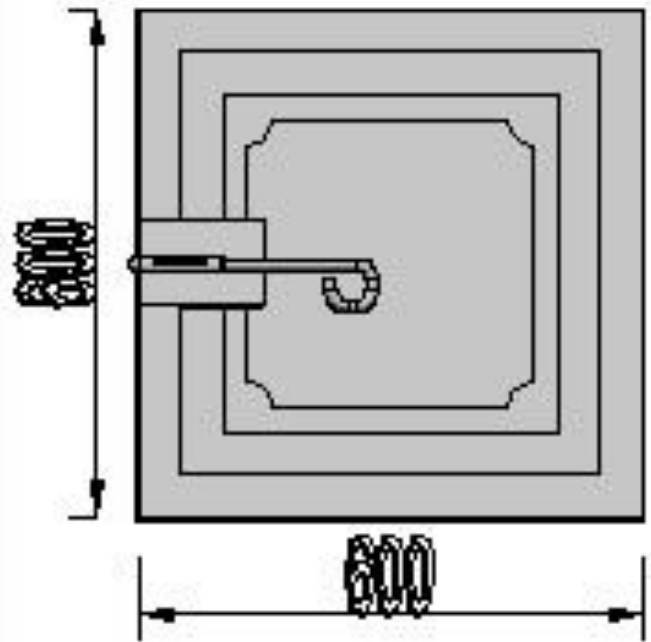
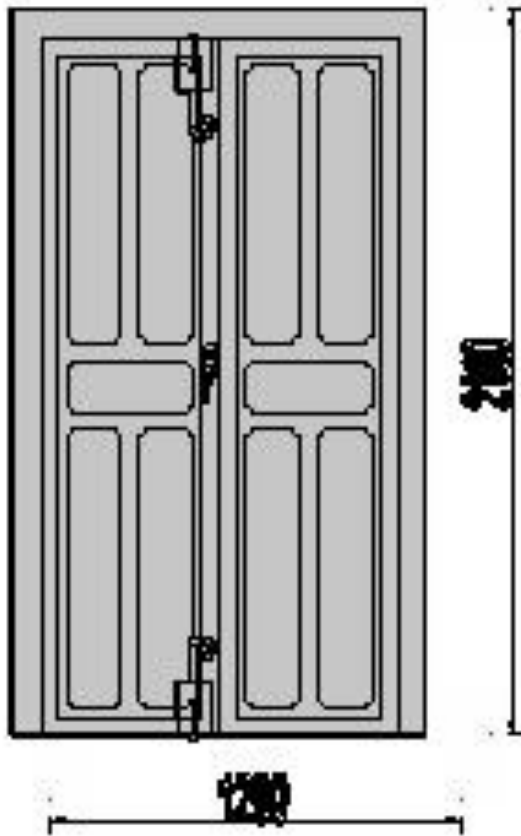
N° 05



DETAILED OF TOP AND INCLINED RING BEAMS Designer : M . Auguste + 261 34 61 217 61	July 2017 Scale: $\frac{1}{20}$ th	PLAN N° D1
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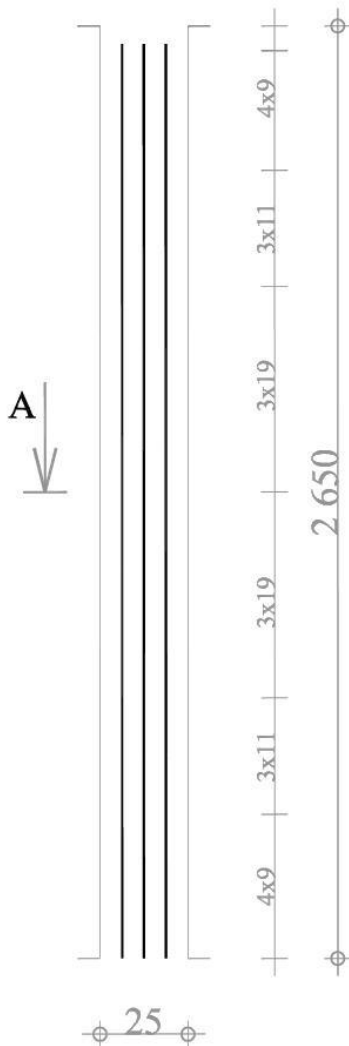


DETAILED OF BEAMS & CONNECTION OF THEIR REINFORCEMENTS Designer : M . Auguste + 261 34 61 217 61	July 2017 Scale: $\frac{1}{20}$ th	PLAN N° D2
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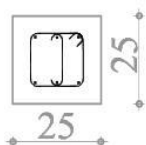


Door - Windows

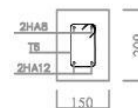
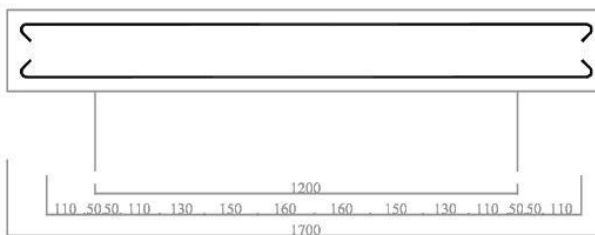
COLUMN 250x250



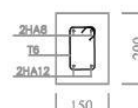
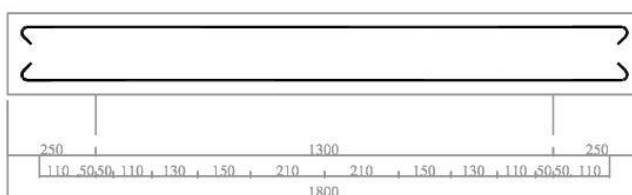
A-A



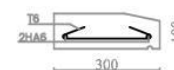
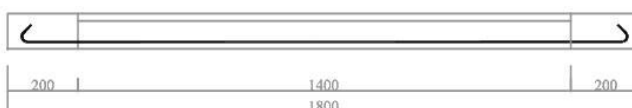
Lintel in reinforced concrete of doors



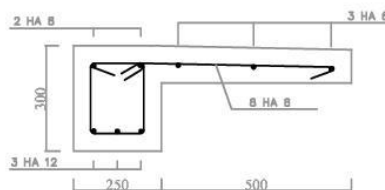
Lintel in reinforced concrete of doors



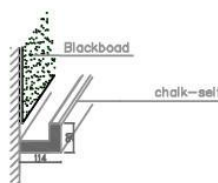
Window sill in reinforced concrete



Weather-board

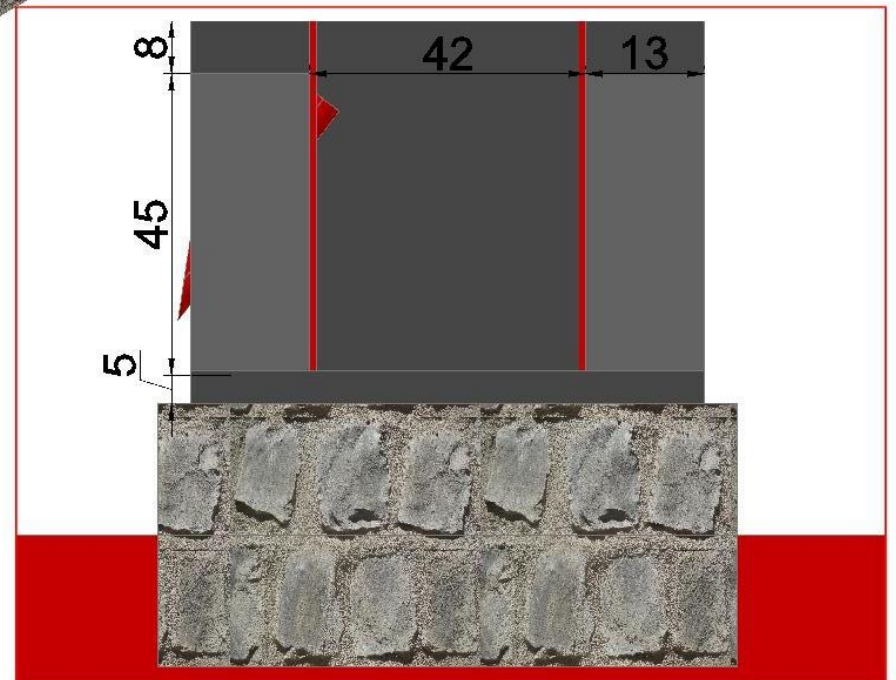
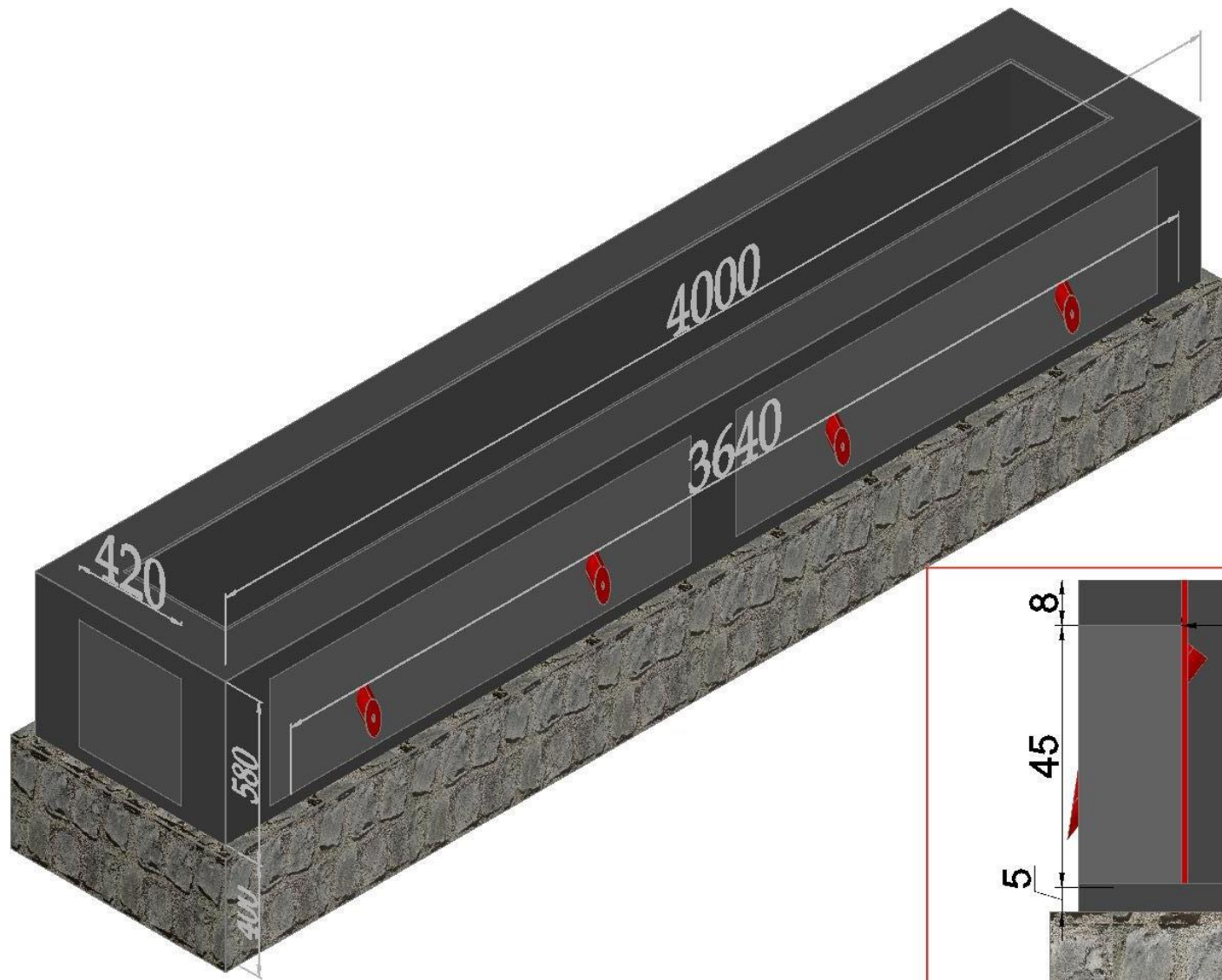


Chalk-self

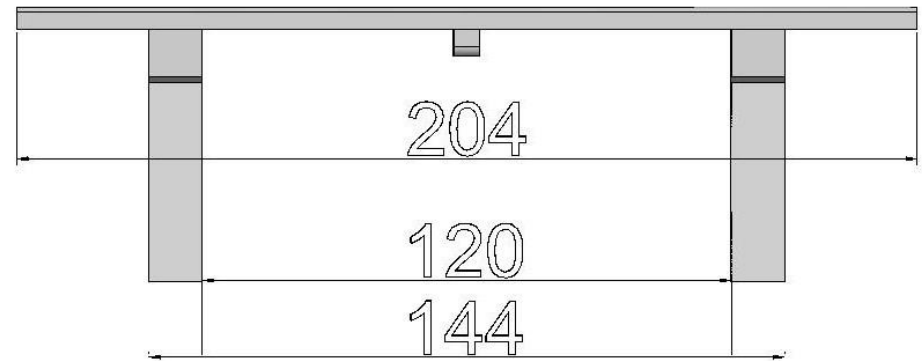
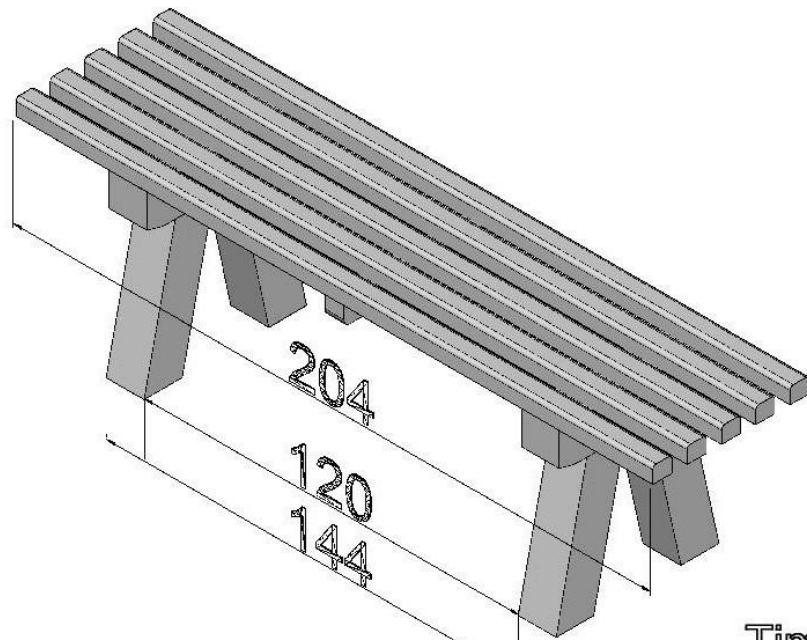
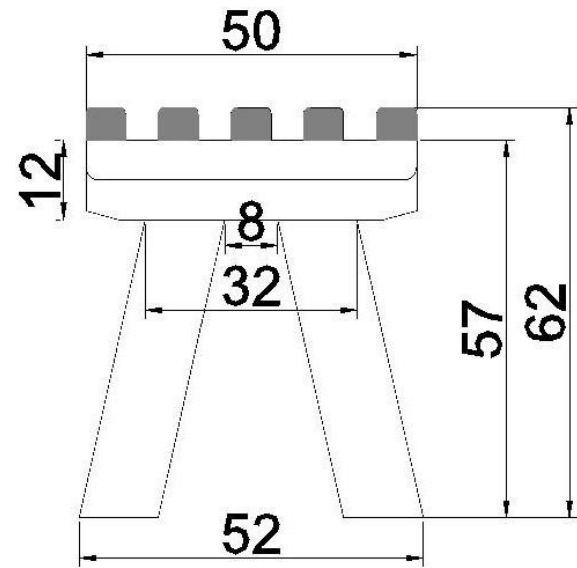
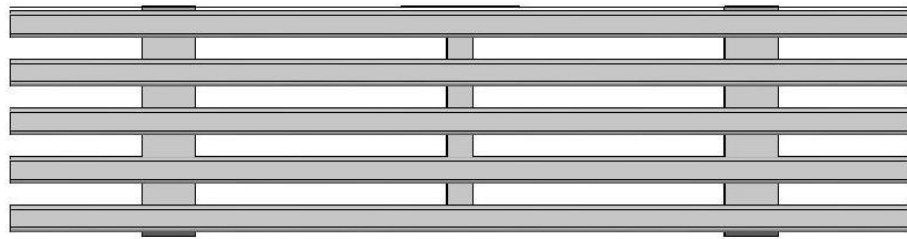


Detailed

Scale: $\frac{1}{20}e$



Flower pots



Timber bennches

Auguste

d. Description Of The Work

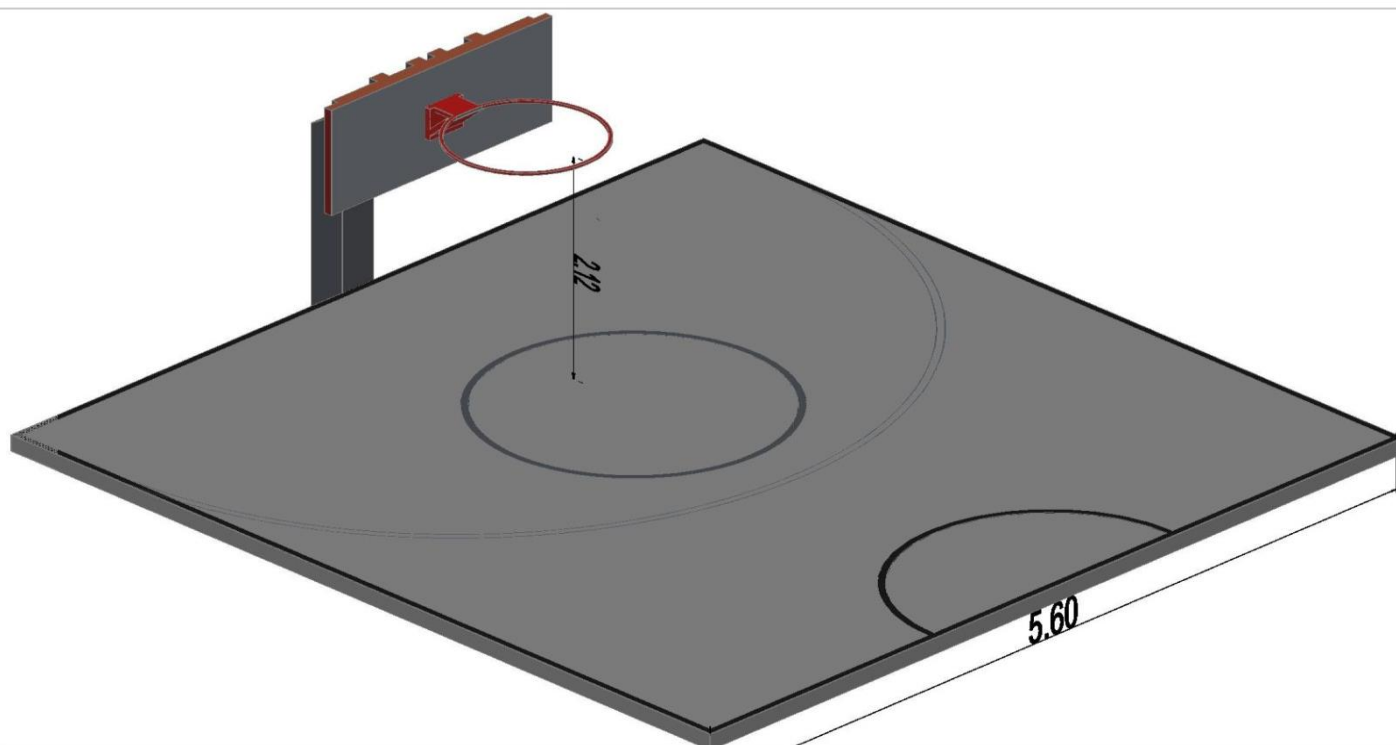
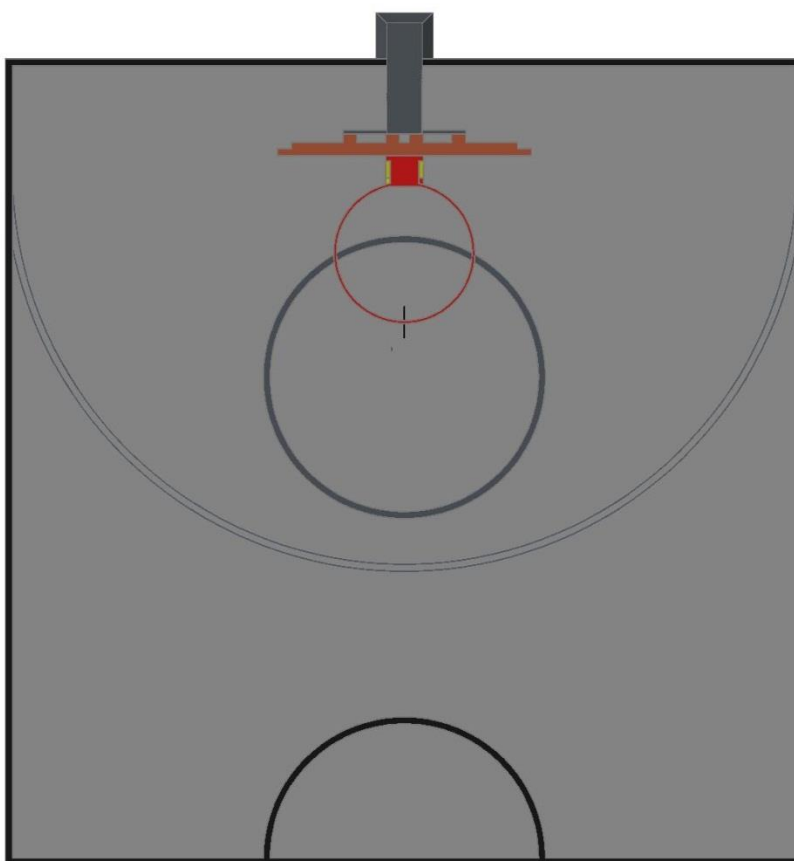
DESCRIPTION OF TWO IDENTICAL SCHOOLS HAS TWO CLASSROOMS			
N°	designations of the works	Concerning	Observations
I- EARTHWOORK			
I.1	Grass removing and topsoil stripping	footprint of a building	Preparing of the footprint
I.2	Trench excavation for foundation	Foundation of the school and front stonework of veranda	Trenching needed by the foundations
I.3	Compacted layer of backfill from trench excavation	Foundation and internal of the school	From Trench excavation
I.4	Charging and excess evacuation	Un-used and should be evacuated from site	Put into a place authorised by the control
II- SUBSTRUCTURE WORK			
II.1	Bedding concrete	Under all foundation beams and front cut-off wall of veranda	50mm of thickness
II.2	Reinforced concrete	Ground beams: 450x300mm and Columns 250x250mm	Gauge: one bag of cement + two wheel barrow of clean river sand and three for gravels
II.3	Shuttering in ordinary plank	Ground beams: 450x300mm and Columns 250x250mm	including abutment in round timber
II.4	Iron bars for all diameters	Ground beams: 450x300mm and Columns 250x250mm	TQF iron bar couldn't be used. reinforcement cover: 50mm
II.5	Stone bedding 40/70 for ground slab	Internal and external ground slab ; teaching plinth	80mm of thickness
II.6	Ordinary concrete for ground slab	Internal and external ground slab ; teaching plinth	50mm of thickness
II.7	Masonry of stonework	Above ground beams and front cut-off wall of veranda	Gauge: one bag of cement + three wheel barrow of clean river sand
III- SUPERSTRUCTURE WORK			
III.1	Reinforced concrete	Columns, ring beams, beams, lintels, sill of windows, weather-boards	Gauge: one bag of cement + two wheel barrow of clean river sand and three for gravels
III.2	Shuttering in ordinary plank	Columns, ring beams, beams, lintels, sill of windows, weather-boards	Planned plank
III.3	Iron bars for all diameters	Columns, ring beams, beams, lintels, sill of windows, weather-boards	TQF iron bar couldn't be used. reinforcement cover: 50mm
<i>Total superstructures Work</i>			
IV- MASONRY AND RENDERING			
IV.1	Front hollow Brickwork (filling under steel sheet)	Only in front of the school, begin 200mm under sill of windows	Gauge: one bag of cement + three wheel barrow of clean river sand
IV.2	Masonry Hollow block works	The remaining area, till gable walls	
IV.3	Masonry of vent blocks	Above all front / rear openings and two laterals	section 400x400mm
IV.5	Ordinary plastering in cement, 1c + 2,5s	Internal and external wall, visible face of concretes	Thickness : 15mm
IV.6	<i>Anti-rust paint for metallic cleat</i>	Flooring of all classrooms and veranda	In, has one expansion joint and outside has two to every classrooms
IV.7	Trowelled and smoothing cement for Board	Where there will be blackboards	30mm thickness

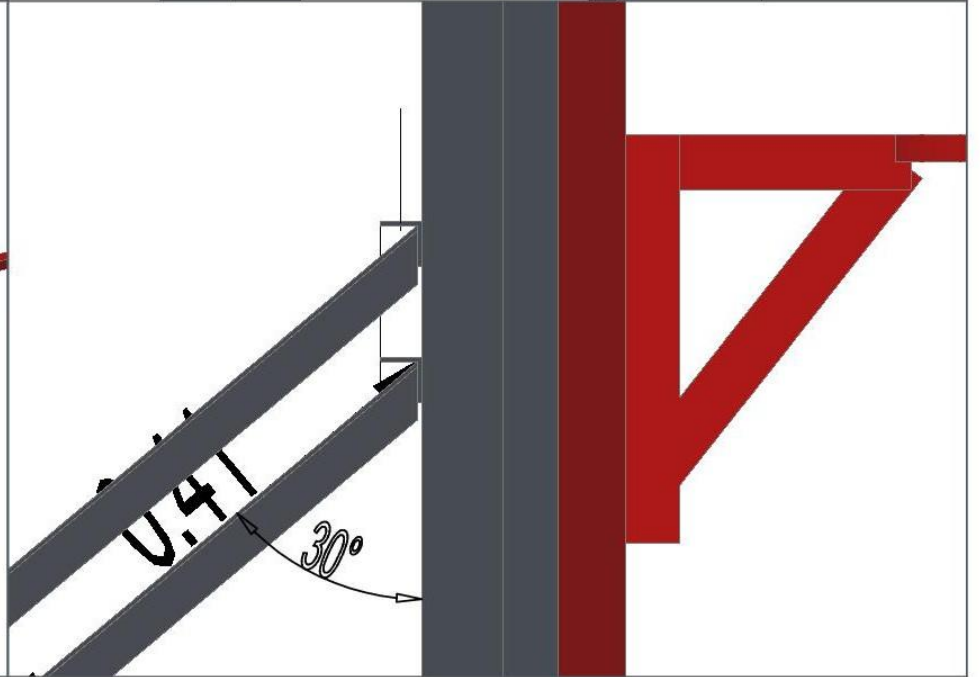
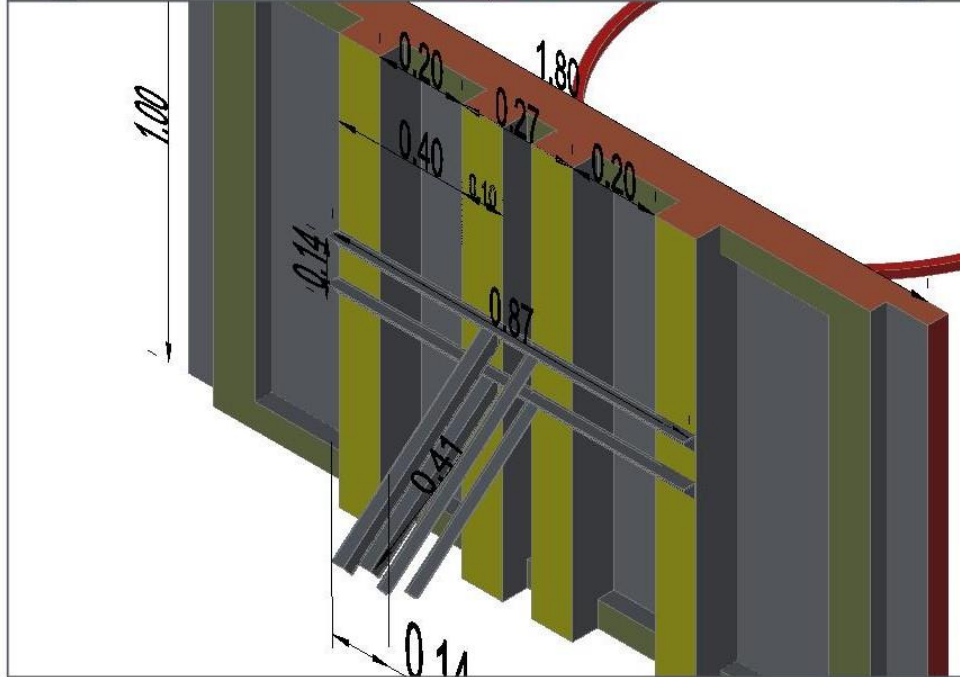
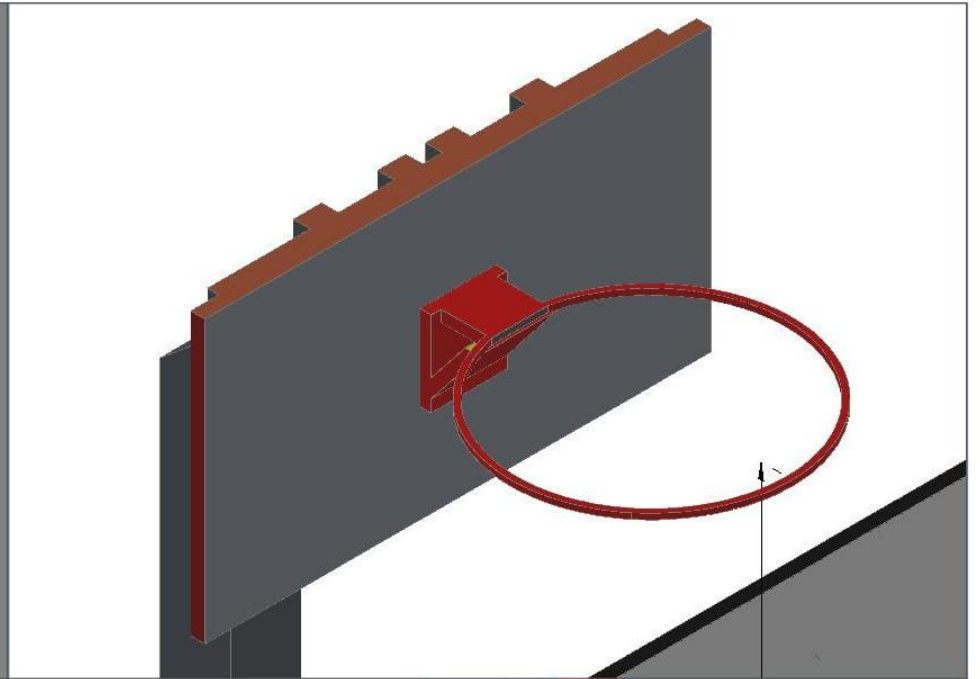
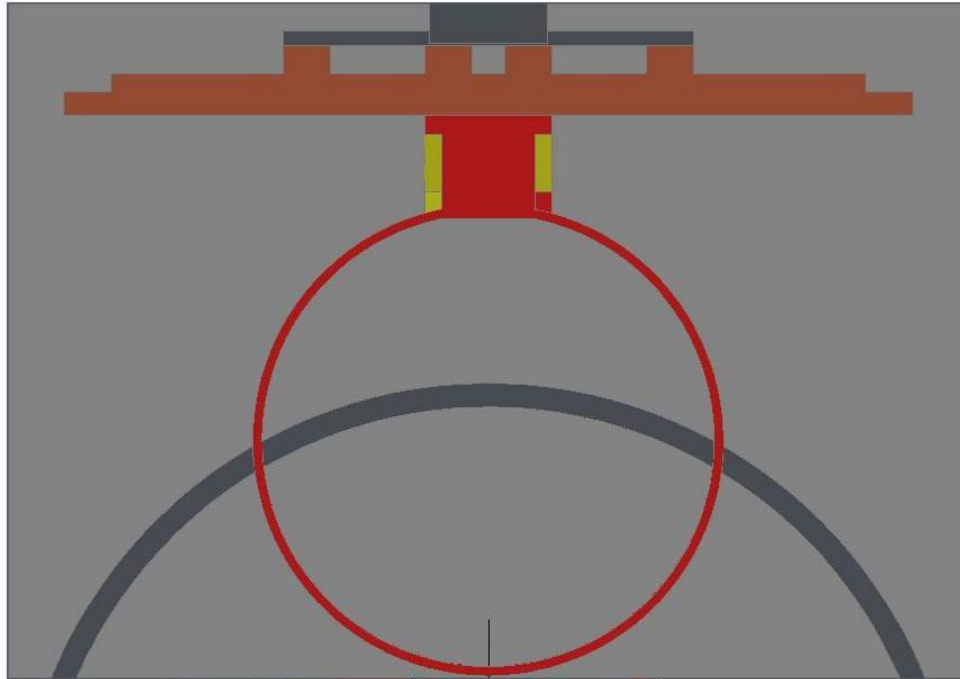
V- FRAMEWORK AND COVERING			
V.1	Assembly timber frames (Half trusses)	Internal and external timber trusses and half trusses	-Timber 70x160mm - square timber 120x120mm - treated before using
V.2	No assembly timber frames (Purlins)	Purlins	-Timber 60x120mm -square timber 60x60mm - treated before using
V.3	Covering in corrugated iron/steel sheet (Allu-zinc)	Covering of the school	40/10th of metal sheets in Allu-zinc
V.4	Ridge in flat metal sheet (Allu-zinc)	Covering of the school	40/10th of metal sheets in Allu-zinc
V.5	Metallic cleat for purlins	Support of timber purlins	-welded Iron angle section -3 coach bolt or screw -2 bolts
V.6	Fascia boards	Edge of the covering, on the four sides	- type hard wood - Width : 200mm -Thickness : 25mm - without unsound knot - treated before using
V.7	Inclined or sloping Ceiling	Under covering in corrugated iron/steel sheet	- type fir wood - Width : 140mm -Thickness : 2mm - without unsound knot - treated before using
V.8	Plastic roof gutter, good quality, gutter bracket every 400mm	Front and rear of the school	-bracket or clip, every 400mm of spacing.
V.9	Downpipe for rainwater,1000mm diameter	Front and rear of the school	-Pipe hanger in plastic and 2 in one meter -Used system, connecting vessels
VI- WOODWORKS			
VI.1	Windows 1 300 x 1 100mm	Front and rear windows	Double casement windows - 4 Hinges - 2 small flat bolt - Window handle - Lock
VI.2	Doors 1 200 x 2 100mm	front of the school	- Double casement windows - 6 Hinges - 2 small flat bolt - Door handle - Lock
VI.3	Selves on every classrooms,1 800mm long	Classrooms	- Metallic support - Plank in dry red eucalyptus - Varnished
VII- PAINTING			
VII.1	Primary coat in Water paint, for walls and concrete	All internal and external rendered area in cement (wall in brickworks ; hollow block works and visible face of concrete)	White colour
VII.2	Internal and external water paint, for walls and concrete	Internal and external area, all above plinth	Internal and external "Ton Pierre"
VII.3	Internal and external oil-based paint, for walls and concrete	Internal and external plinth, 1 500mm height	Two colour different, green 1 100mm height and ivory-coloured 400mm height,
VII.4	Oil paint for all woodworks(Doors, windows, fascia board)	All woodworks	Tree coat of painting and uniform
VII.5	Varnishing of the sloped ceiling	Sloped ceiling	Assembling: Tongued-and-grooved joint - treated before using

VII.6	Painting in black of the board (Ardoisine)	Internal board of the school	Special paint for board "ardoisine"
VII.7	Painting of corrugated steel sheet (Allu-zinc)	Covering of the school	using paint spraying
VII.8	Anti-rust paint for metallic cleat	Support of purlins painted firstly in anti-rust paint	welded Iron angle section and bolts
VIII- DIVERSE			
VIII.1	Flowers pots	Flower to be planted in front of the school	One per classrooms, made with bricks and concrete
VIII.2	Timber benches	Bench for pupils and teachers, only in front of the classroom	All in Timbers, in front of every classroom, fixing is assured by buried bolt
VIII.3	Concrete path around the school	To connect schools and others	Made with compacted Stone bedding 40/70 then ordinary concrete, expansion joint every 2000mm,1000mm wide

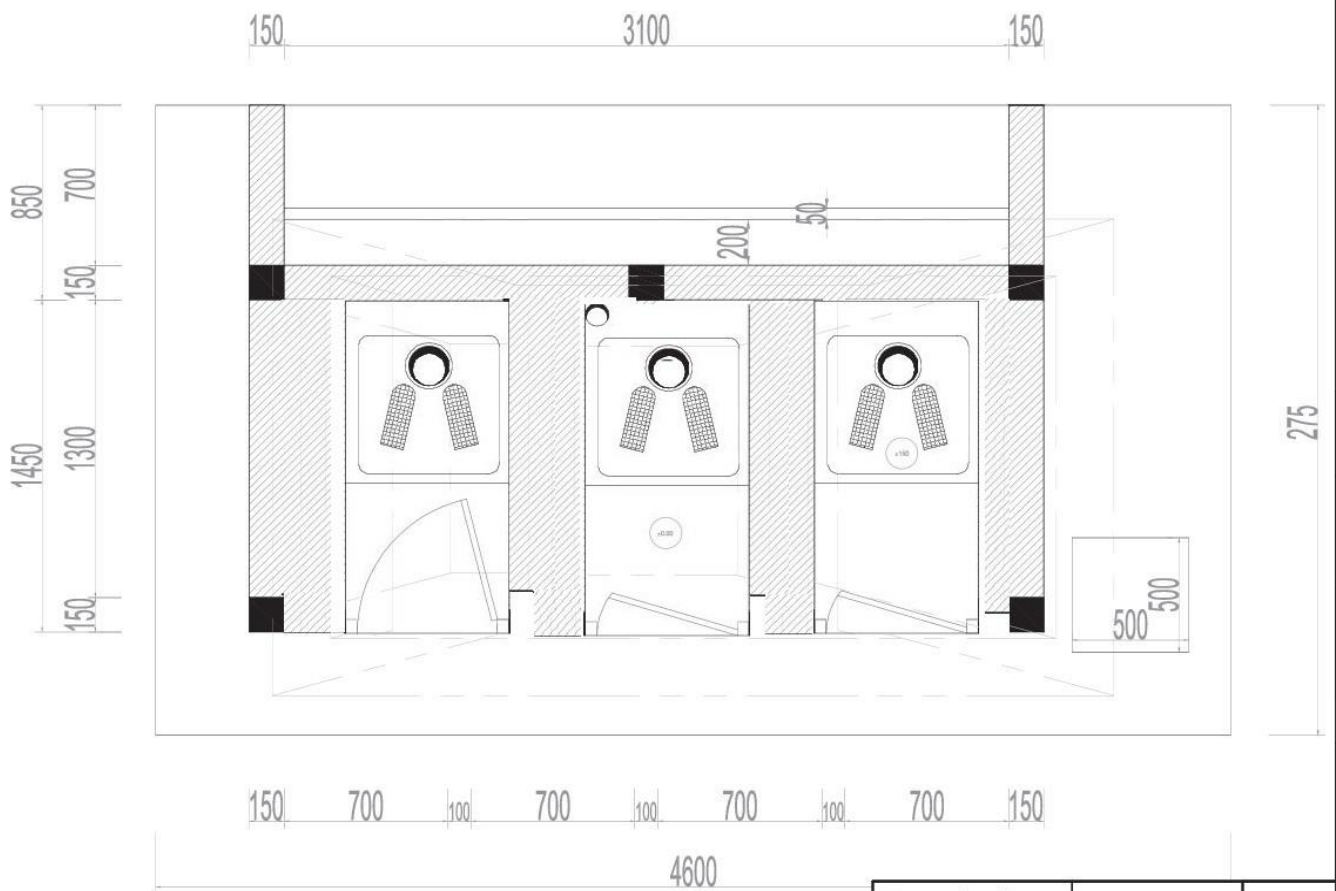
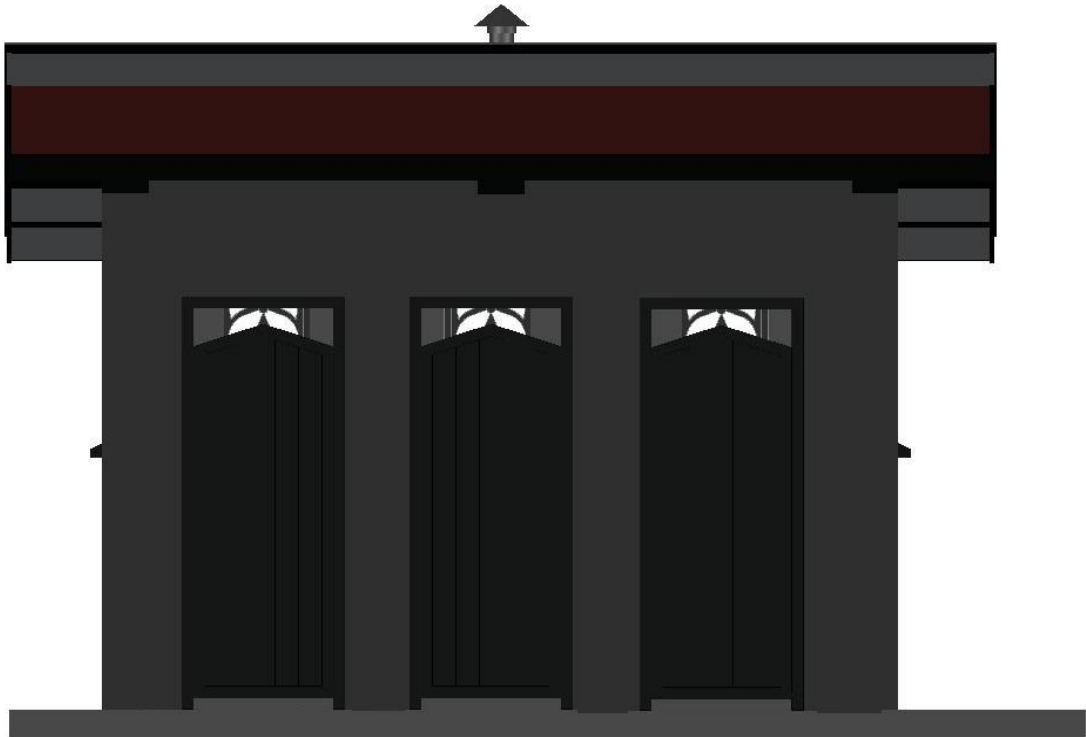
MINI BASKET-BALL AREA

b. Different plans

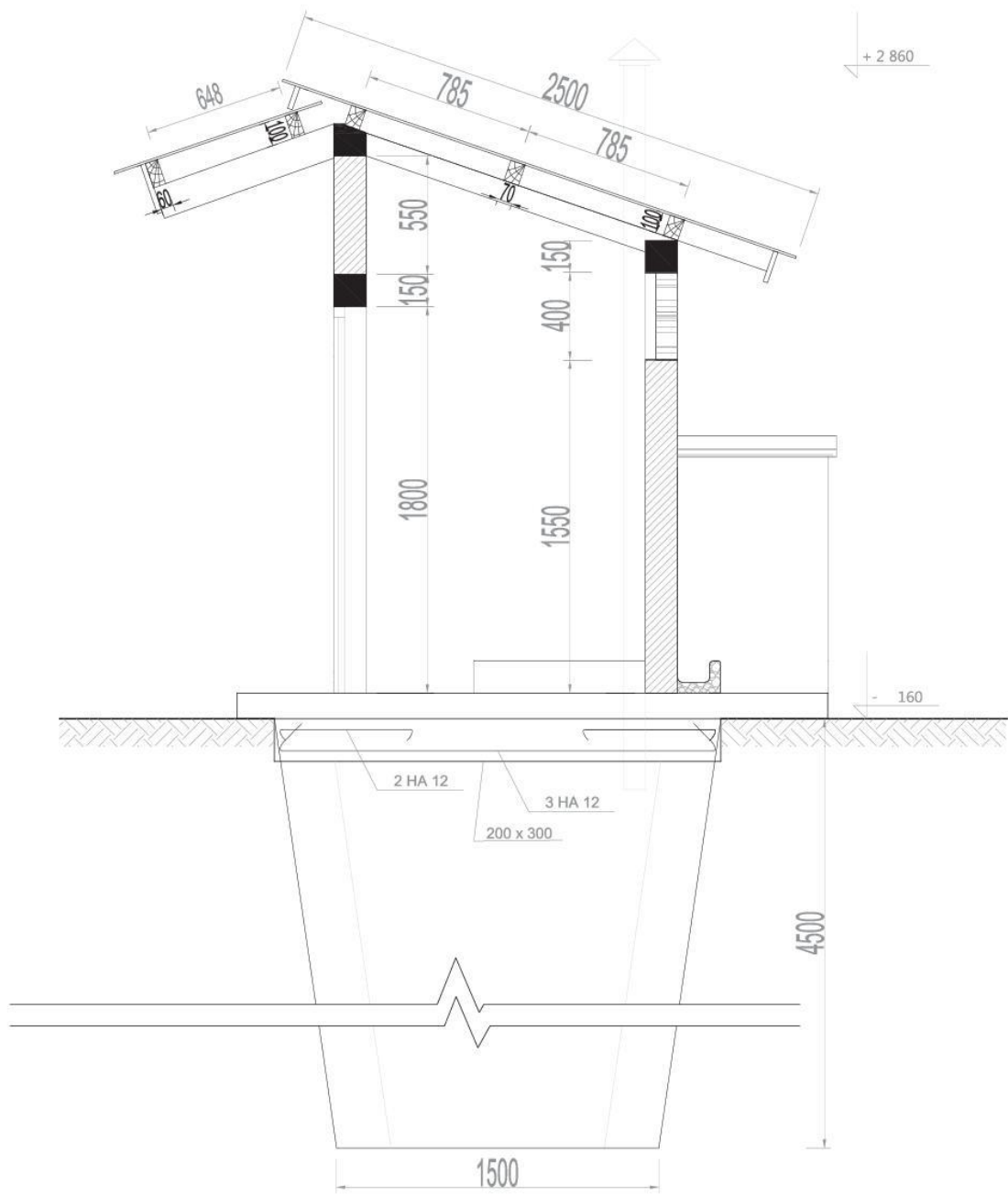




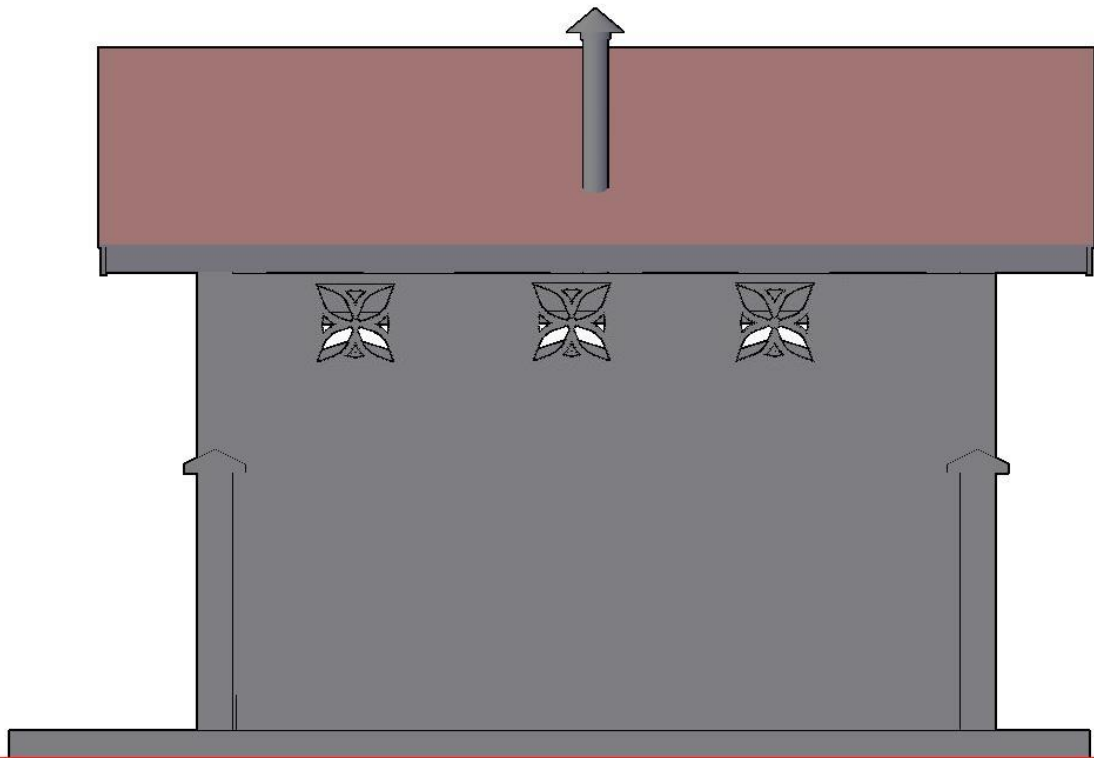
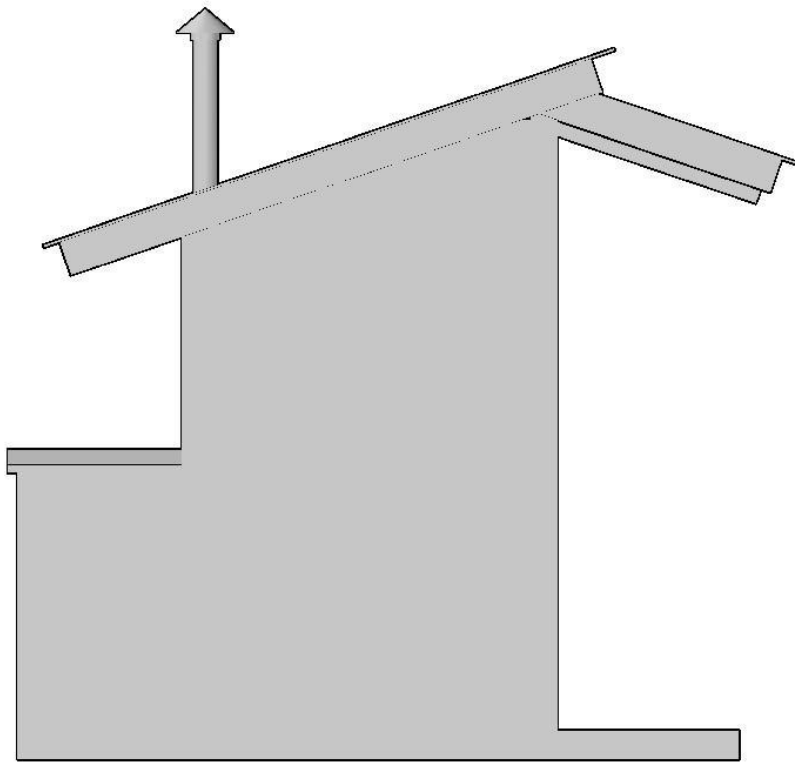
III. LATRINES THREE BOXES
 Different plans



Front view & Plan	July 2017	PLAN
	Scale: $\frac{1}{30e}$	N° 01



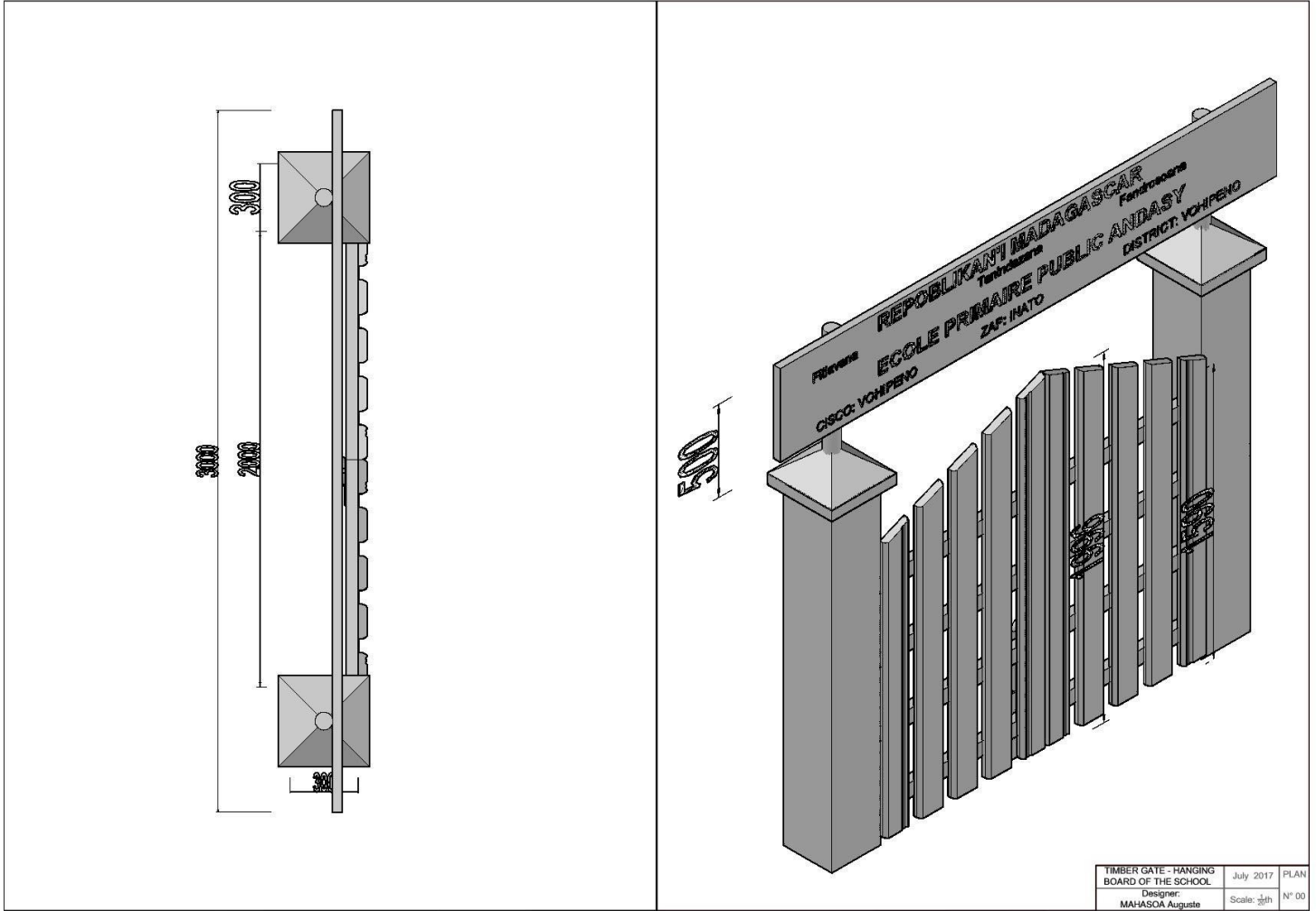
Section	July 2017	PLAN
	Scale: $\frac{1}{30e}$	N° 02



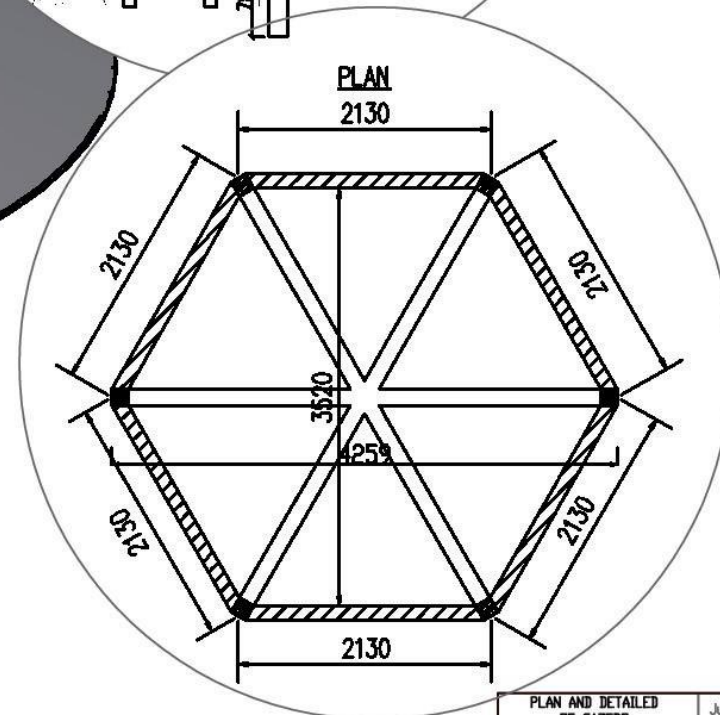
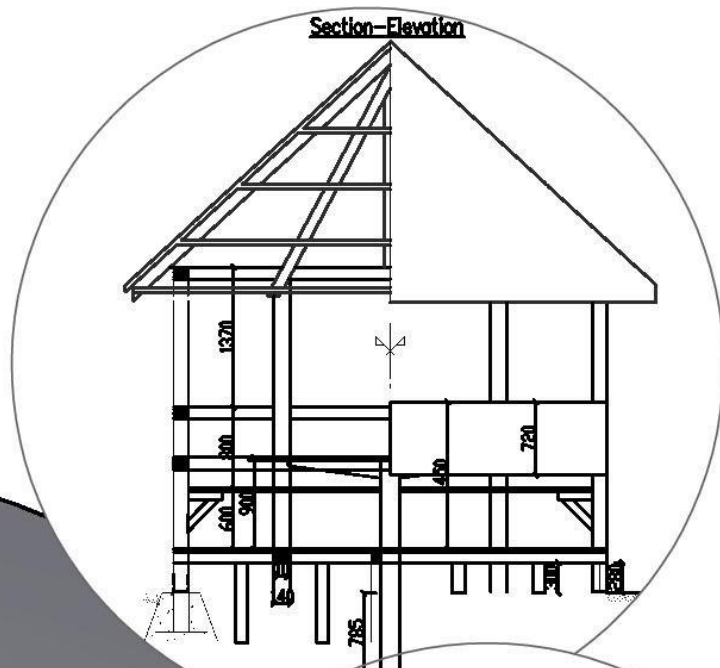
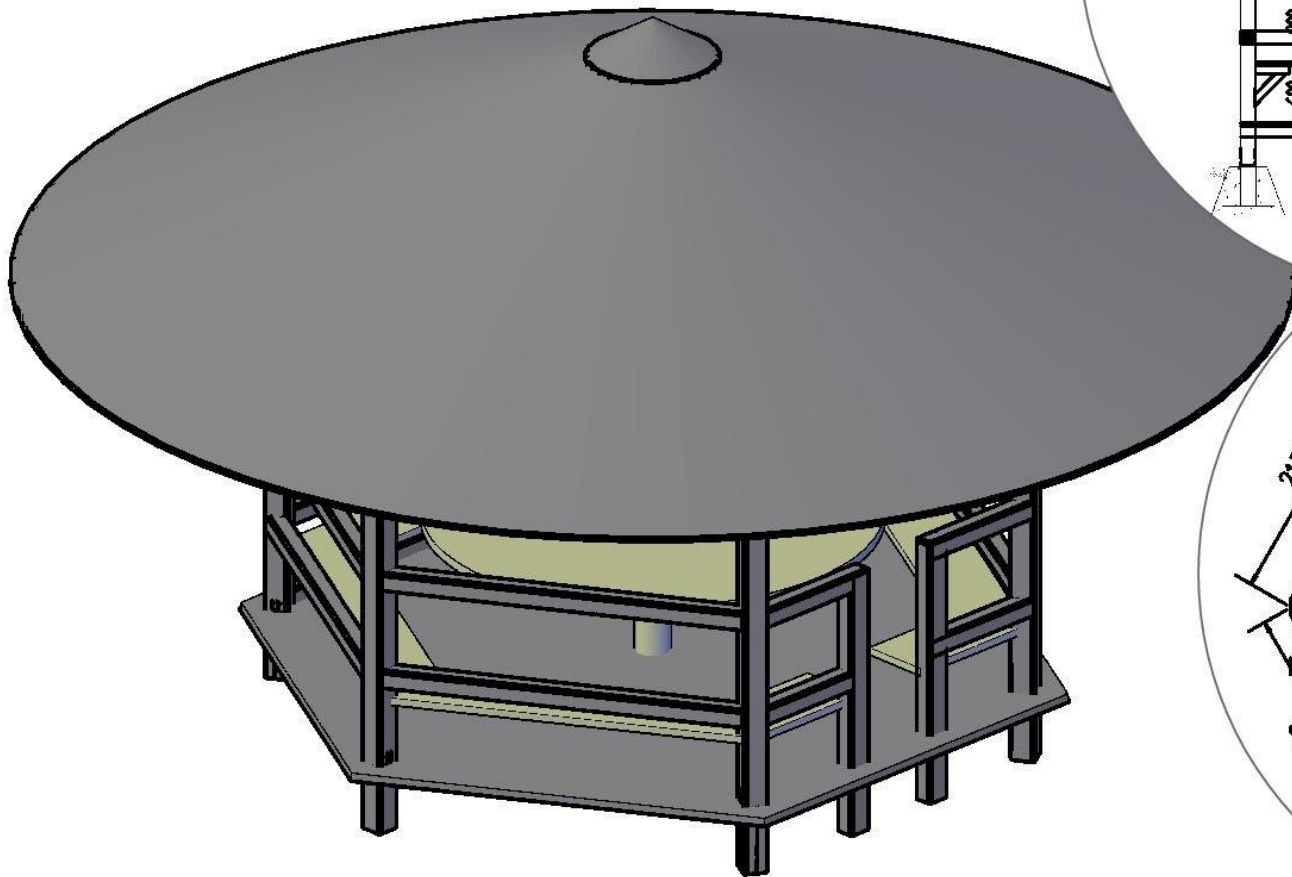
Laterals & Rear view	July 2017	PLAN
	Scale: $\frac{1}{30e}$	N° 03

IV. EXTERNAL FITTING OUT

a. Plans



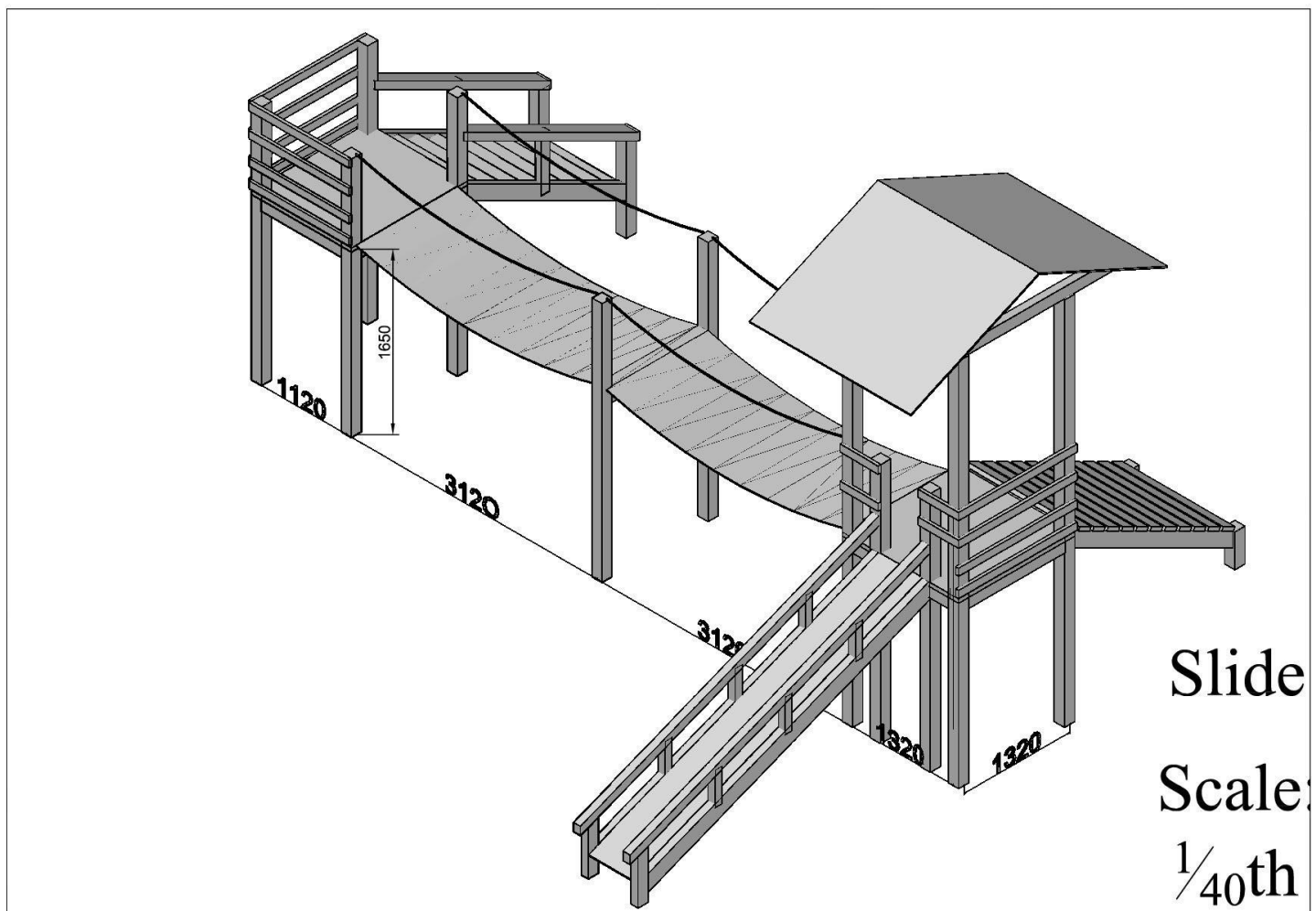
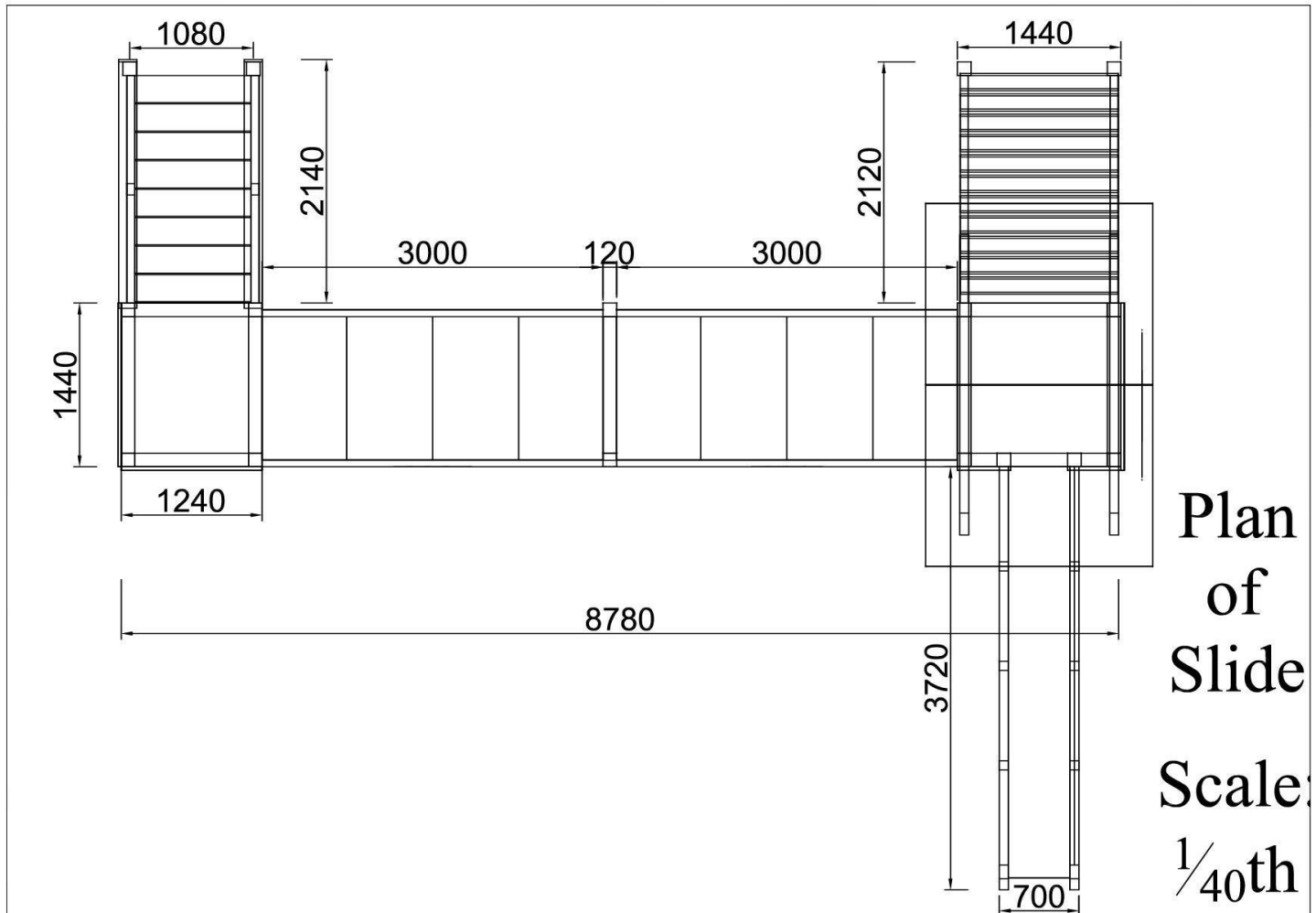
TIMBER GATE - HANGING BOARD OF THE SCHOOL	July 2017	PLAN
Designer: MAHASOA Auguste	Scale: 1/20th	N° 00

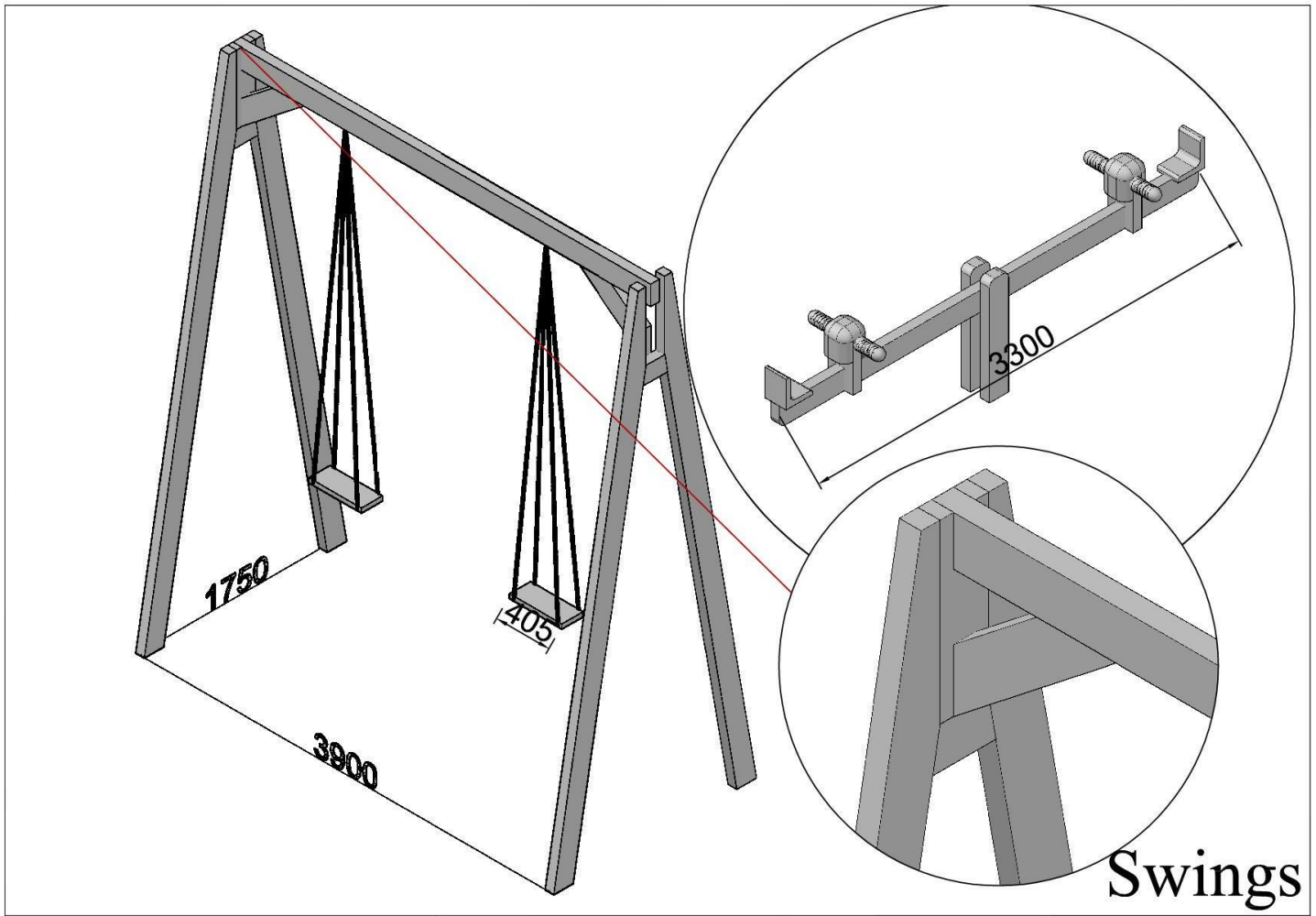


PLAN AND DETAILED OF GAZEBO	July 2017	PLAN
Designer: MAHASDA Auguste	Scale: Var	N° 01

V. FURNITURES AND GAMES

a. Plans





VI. UPPLYING CONDITION OF THE CONTRACT

1. QUALITY REQUIREMENT

- A photographic survey needs to be done before the work begins, consisting of 10 photographs of the site and buildings.
- A photographic survey needs to be done weekly of specific details of the work, consisting of 10 photographs of the site and buildings as they are constructed so that evaluation can be done by TASC/ADSUM to allow control of quality and approval of payment.
- A supervisor or site agent needs to be on site at least 2 hours per day to oversee works specifically monitor safety and quality and details around concrete work, shuttering, cover to reinforcement and mixing and vibrator of concrete.
- A local engineer or experienced construction person needs to visit site weekly and do a photo survey and weekly inspection checklist and issue to PJOB of TASC by E-mail.
- Payments can only be made after inspection, photographs and agreement on quality and remedial works and work value as per schedule sent by PJOB. 8 % retention to be held during works, with final 3 % paid at practical completion.
- A payment schedule and payment summary needs to be written up and sent monthly to Bruce Ellis of TASC and PJOB TASC with receipts from the builder and any other suppliers.

2. TOP TEN CONCRETE ISSUES

- The concrete mix designs are as discussed in ration of 1 : 2 : 3 of cement, cleaned washed sand (not see sand) and a maximum 25mm aggregate from granite or limestone.
- Concrete has to be gauged and controlled in manner that can be easily verified so that the correct rations are used and in particular no reduction in cement content takes place, (Using box for sand which fits two wheelbarrows and gravels also).
- All concrete has to be mixed in mechanical mixer on site with aggregates and sand separated into specific clean piles on site prior to mixing.
- Reinforcement is to be placed in such a way and in shutters with ties; spacer blocks and links so that a minimum of 50mm cover is achieved to all sides and around all rebar.
- All concrete has to be slowly vibrated using a mechanical poker vibrator and all concrete in beams and columns has to be completed in one pour, using the vibrator slowly from the bottom to remove entrained air prevent honey combing and voids.
- Concrete has to be cured and kept cool for a minimum 24 hour period after setting. This can be achieved in covering in visqueen or wet Teram material.
- Concrete should not be buttered up prior to inspection by the PM.
- All reinforcement lap lengths of the element and great care and accuracy is needed in placing and holding reinforcement in place.
- Spacer bars of concrete of 50mm thickness will be needed under all foundation bottom mats.
- Floor slabs and paths needs to be a minimum of 125mm deep and vibrated and need a cut joint or formed joint at 3m centers.

3. WORKMEN

- Number of given workmen to every task should be respected by the builder.
- Workmen are managed by our foreman.

4. SECURITY

- All workmen should have the minimum security wear as a waistcoats and boots for all the men dealing with a concrete.