

RACHAYA EL WADI – COMPOSTING FACILITY

PROJECT BRIEF

INTRODUCTION

In Year 1, DAWERR started developing sustainable composting value chains for organic waste and strengthening existing Recycling Value Chains (RVCs) for recyclable materials in seven selected municipalities, including Rachaya El Wadi, as solid waste diversion and valorization pilots (the “pilots”).

As part of the pilots, DAWERR will support Rachaya El Wadi Municipality and its local community to develop sustainable composting value chains for organic waste (representing 50% of the total municipal solid waste stream) including source separation, collection, and composting of organic waste through the construction of small-scale, low-tech (with spare parts available in the local market), low-cost (capital and O&M) composting stations, creating local demand for the compost produced for agricultural, landscaping, or other uses as soil conditioner/ fertilizer supplement. DAWERR also will facilitate linkages with existing material recovery facilities and engaging the private sector to strengthen value chains for other, non-organic recyclables.

DAWERR is providing targeted technical, financial, and business support to Rachaya El Wadi Municipality to design, implement, and manage the “pilot”.

SUMMARY OF CONSTRUCTION ACTIVITIES AND PROVISION OF EQUIPMENT

DAWERR will construct a composting station - container composter (see details in the drawings below), for which DAWERR subcontractor Compost Baladi has an exclusive Lebanese patent, provide equipment to Rachaya El Wadi Municipality as listed below, and conduct training to the Municipality/Operator to operate and maintain the station and ensure its sustainability beyond the life of the Activity as follows:

1. Construction Activities:

a. Municipality Contribution:

The municipality will be responsible for obtaining the necessary permits and approvals for the composting station (including establishment permit and construction permit) from the related authorities and will contribute to the construction works in the selected plot/site (plot#3312, Rachaya El Wadi) that will host the composting station including:

- The topographic surveys during the project implementation, where needed.
- Establishing the access road leading to the project's site.
- The excavation works and the land preparation following the designs, specification and calculations provided by DAWERR civil engineer.
- The relocation of a hangar owned by the municipality (Block A in Top of Roof Plan) to the project's site after the completion of points 1 & 2 below under (b) DAWERR contribution. This hangar will serve as a multipurpose area: Reception - curing - packaging.
- Planting trees all around the project's fence.

Municipality work contribution will be implemented under the design and supervision of DAWERR consultant engineer.

b. DAWERR Contribution:

DAWERR will be responsible for the following:

- The earth works and land's preparation including Base coarse layer, excavation of the foundations, etc.
- The reinforced concrete works including blinding concrete, foundations, tie beams, channels and pits, slab on grade, etc.
- Finishing for the Block A including partition - plastering - painting - doors, etc.
- The steel works including: The steel fence, the project's gate, etc.
- Electrical installation including power, lighting and low current, networks, earthing, etc.
- Mechanical installation including drainage and water supply networks, etc.
- Supply and installation of a prefabricated unit dedicated for the reception area (Block B in Top of Roof Plan).
- Landscaping works including the asphaltting of the external yards, etc.

2. Provision of Equipment:

Once the construction phase is completed, DAWERR will provide and install the following equipment:

- Three container composter 40' with all its related equipment.
- One screening machine to screen the compost produced
- Solar Photovoltaic (PV) system for the Electrical power supply. (To be confirmed; not included in this submission)

Important Note:

This submission is an intermediary design and will be used by the municipality in the permit's acquisition process.

The detailed drawings, calculation notes, tests, etc., will be submitted after the permit issuance.

RASHAYA COMPOSTING FACILITY LIST OF ARCHITECTURAL INTERMEDIARY DESIGN DRAWINGS

Sheet Number	SHEET TITLE	SCALE
A-00	LIST OF DRAWINGS – PROJECT BRIEF & GENERAL NOTES	N.T.S.
A-01	MASS PLAN	1/1000
A-02	SCHEMATIC SANITARY PLAN	1/100
A-03	SCHEMATIC FOUNDATIONS PLAN	1/100
A-04	GROUND FLOOR PLAN	1/100
A-05	TOP OF ROOF PLAN	1/100
A-06	SECTIONS AA & BB	1/100
A-07	ELEVATIONS	1/100
A-08	PRODUCTION LINE AND EQUIPMENT	1/100



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ENCOURAGING REUSE
AND RECYCLING
DAWERR

ACTIVITY:

DAWERR

PILOT:

RACHAYA EL WADI MUNICIPALITY

ENGINEER:

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GENERAL NOTES:
1-THE DRAWING IS NOT TO BE SCALED. ONLY WRITTEN DIMENSIONS ARE TO BE FOLLOWED.
2-ALL DIMENSIONS ARE IN CENTIMETERS UNLESS OTHERWISE INDICATED.
3-ALL LEVELS ARE IN METERS.

KEY PLAN:

REV.	DATE	MODIFICATION	DRAWN	DESIGNED	CHECKED
1	06/06/2022	INTERMEDIARY DESIGN-REV1	RM	CA	RHE
0	04/04/2022	INTERMEDIARY DESIGN	RM	CA	RHE

LOT:

RASHAYA 3312

Project Name

COMPOSTING STATION
RACHAYA EL WADI – BEKAA

DRAWING TITLE:

LIST OF DRAWINGS –
PROJECT BRIEF &
GENERAL NOTES

DRAWING NUMBER A00

SCALE : N.T.S. DATE : 06/06/2022



ACTIVITY:

DAWERR

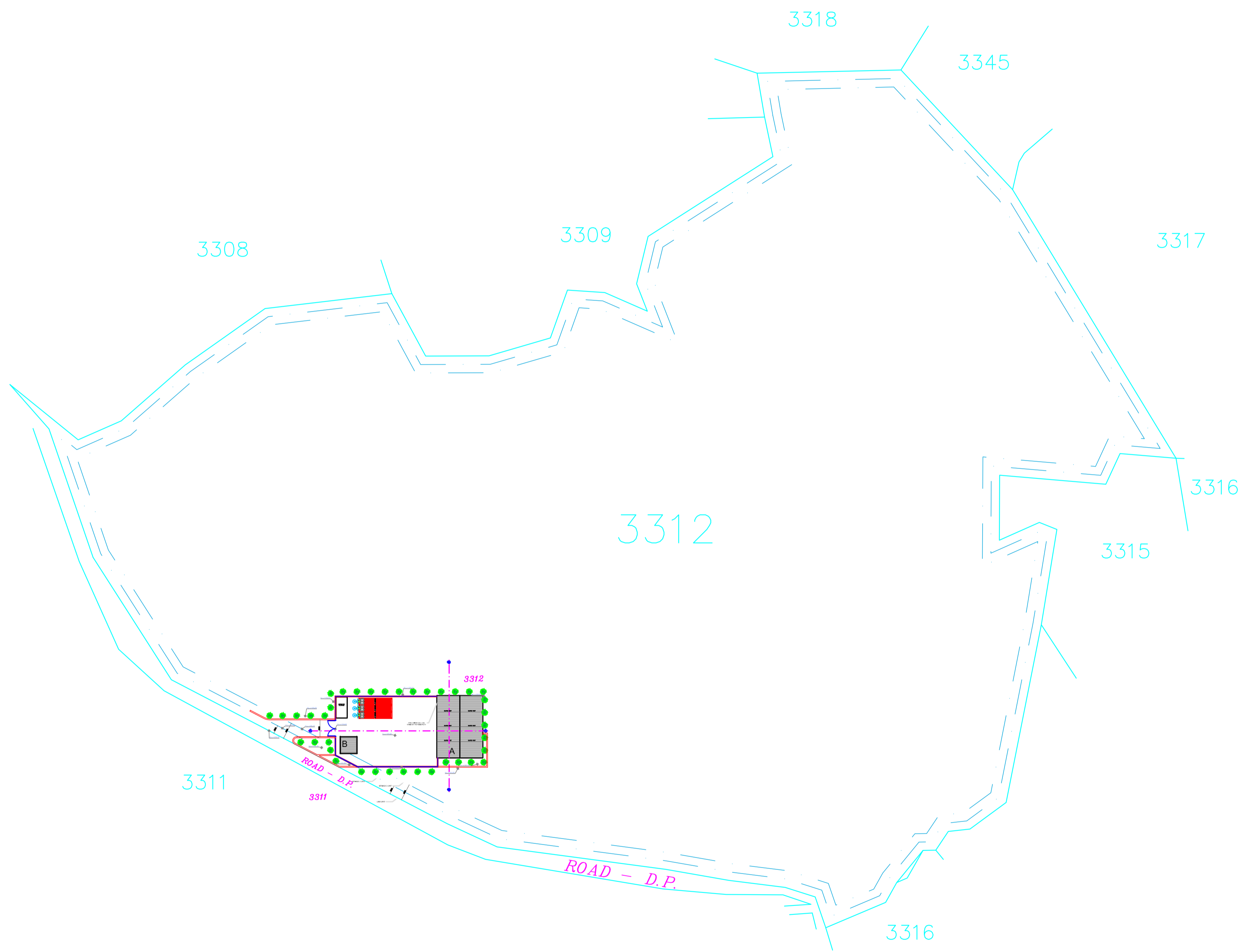
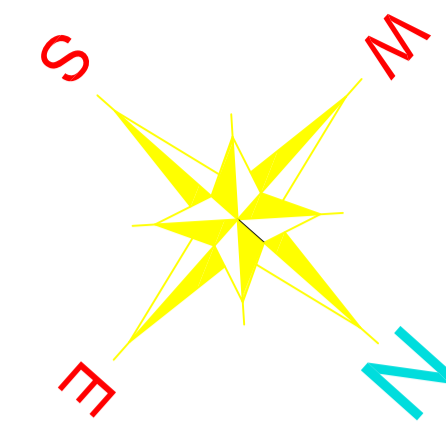
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Project Name

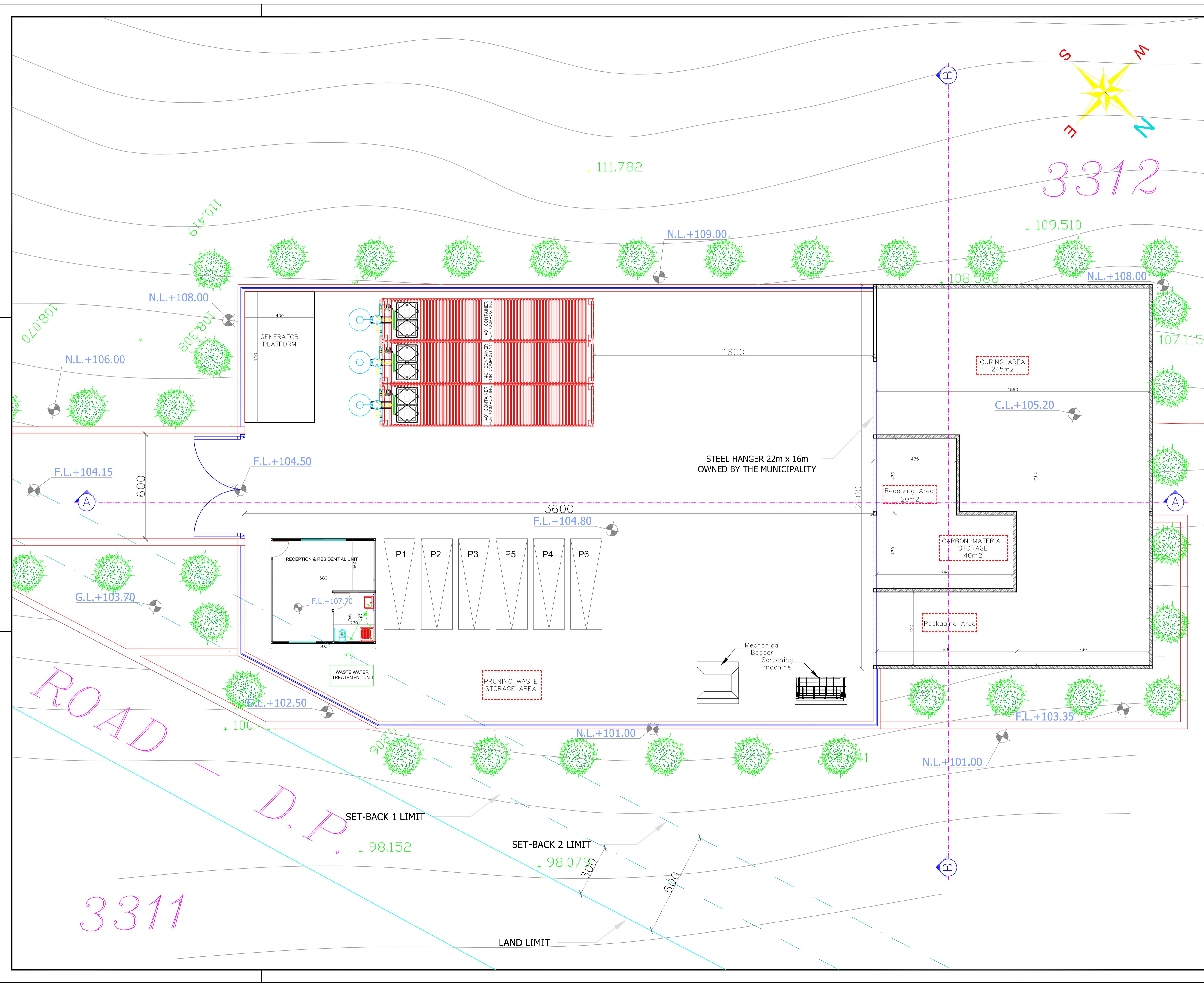
COMPOSTING STATION
RACHAYA EL WADI - BEKAA

DRAWING TITLE:

MASS PLAN

DRAWING NUMBER A01

SCALE : 1/500 DATE : 06/06/2022



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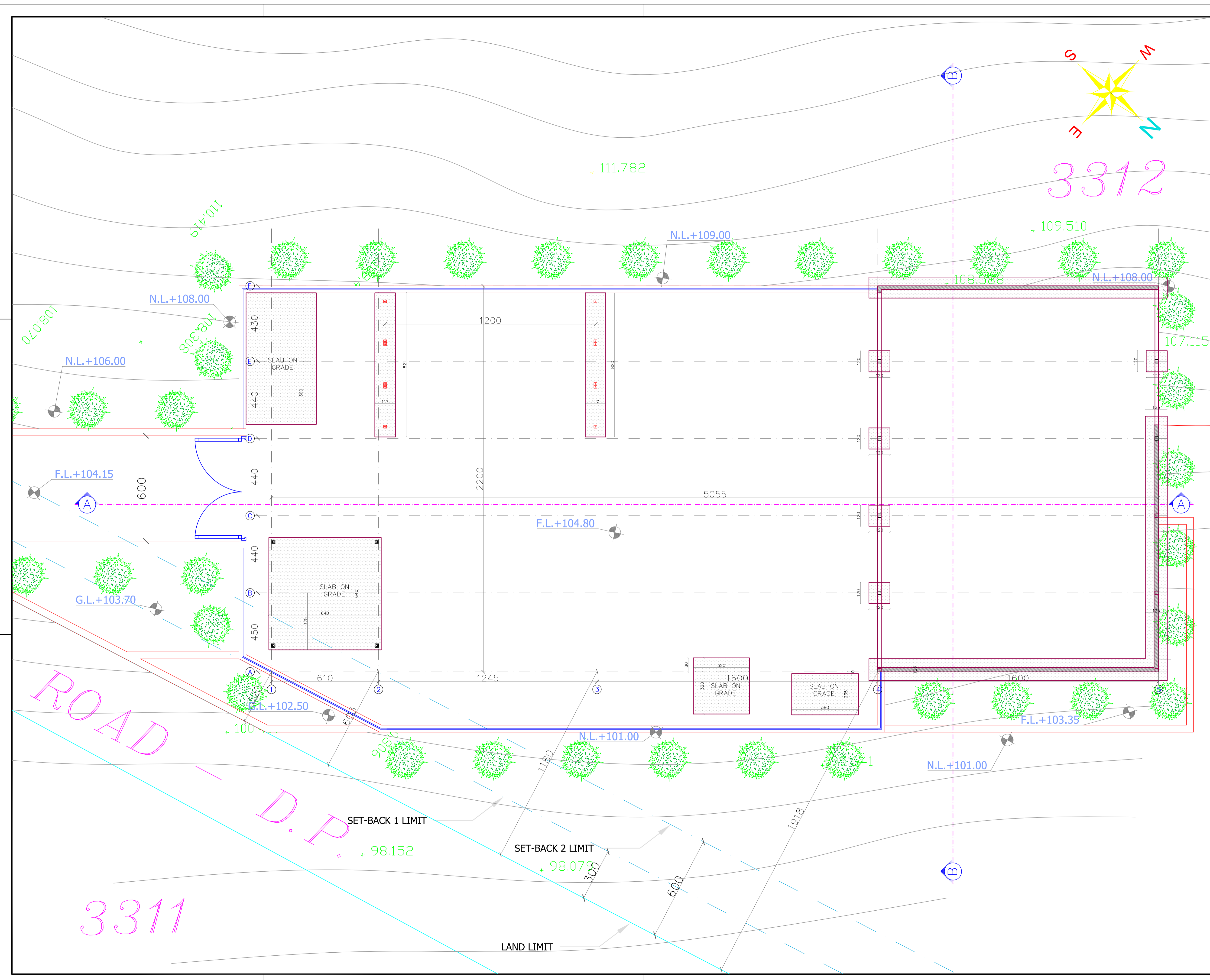
LOT:
RASHAYA 3312

Project Name
COMPOSTING STATION
RACHAYA EL WADI - BEKAA

DRAWING TITLE:
SCHEMATIC SANITARY
PLAN

DRAWING NUMBER A02

SCALE : 1/100 DATE : 04/04/2022



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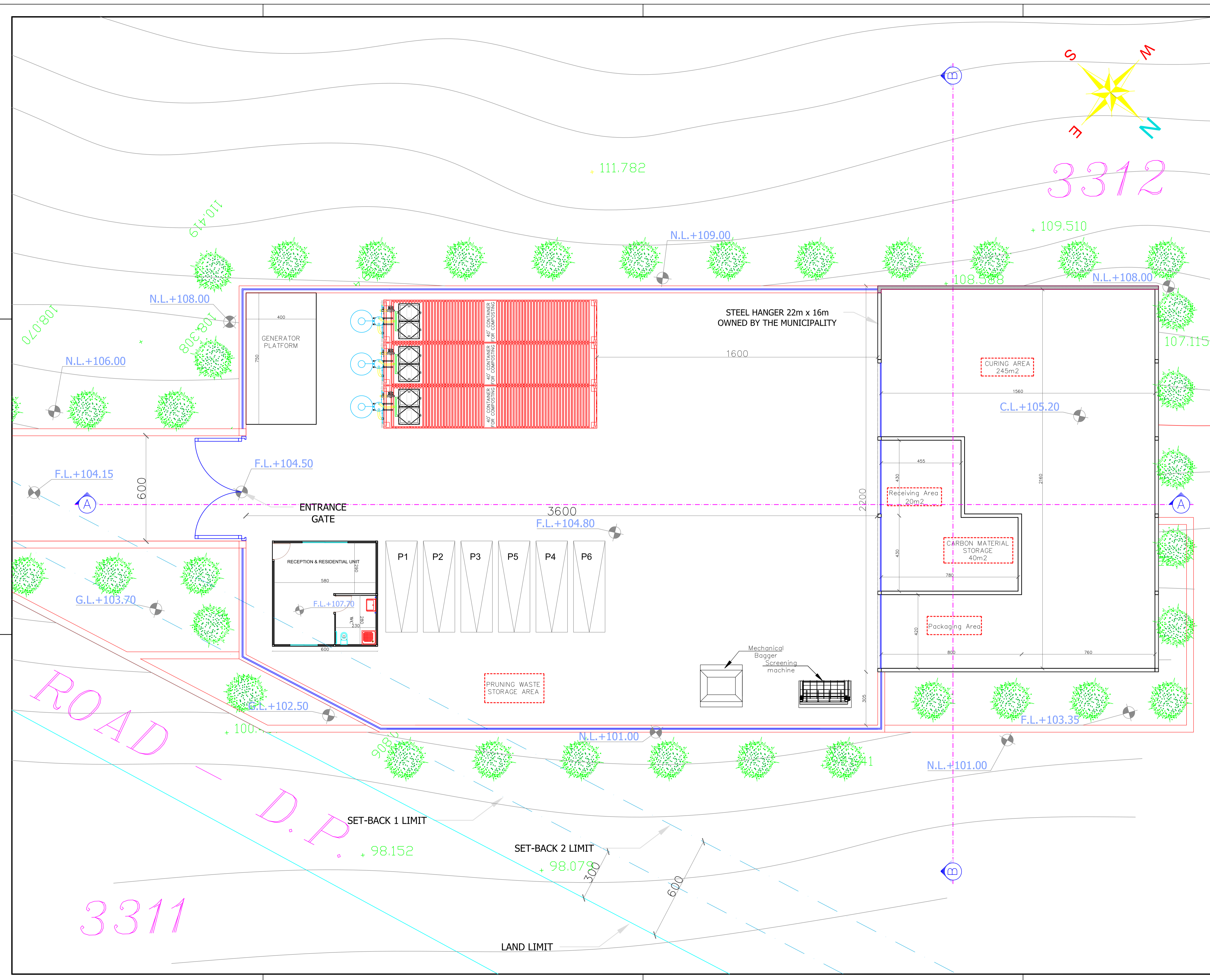
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Project Name
COMPOSTING STATION
RACHAYA EL WADI - BEKAA

DRAWING TITLE:
SCHEMATIC
FOUNDATIONS PLAN

DRAWING NUMBER A03

SCALE : 1/100 DATE : 06/06/2022



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Project Name
COMPOSTING STATION
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DRAWING TITLE:
GROUND FLOOR PLAN

DRAWING NUMBER A04

SCALE : 1/100 DATE : 06/06/2022



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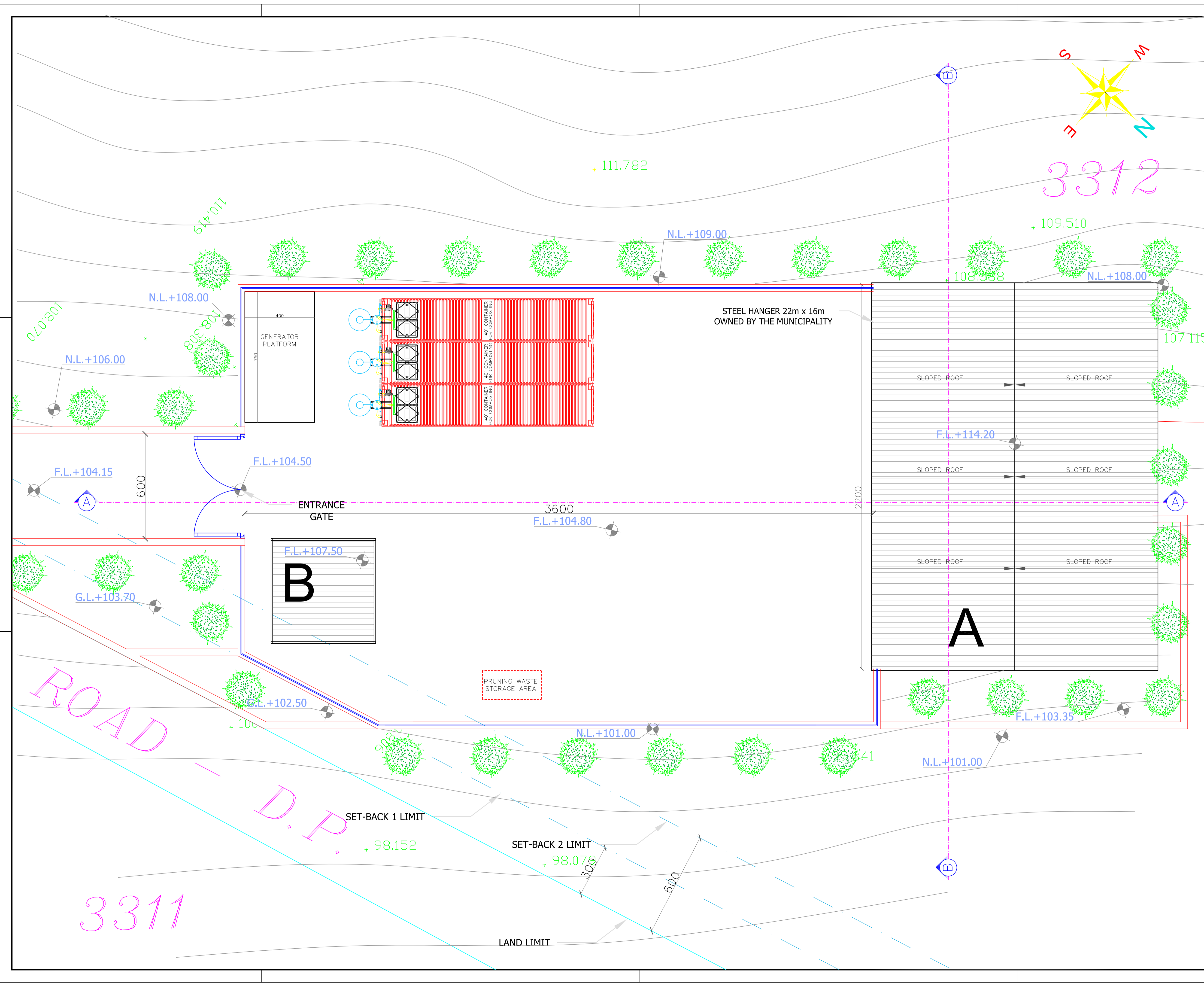
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RACHAYA EL WADI - BEKAA

DRAWING TITLE:
TOP OF ROOF PLAN

DRAWING NUMBER A05

SCALE : 1/100 DATE : 06/06/2022



3311

3312



ACTIVITY:

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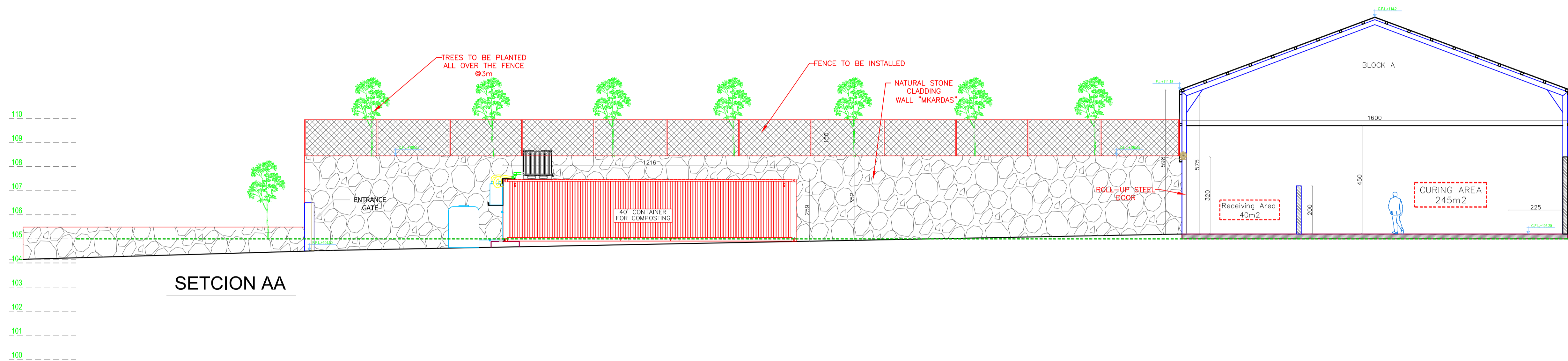
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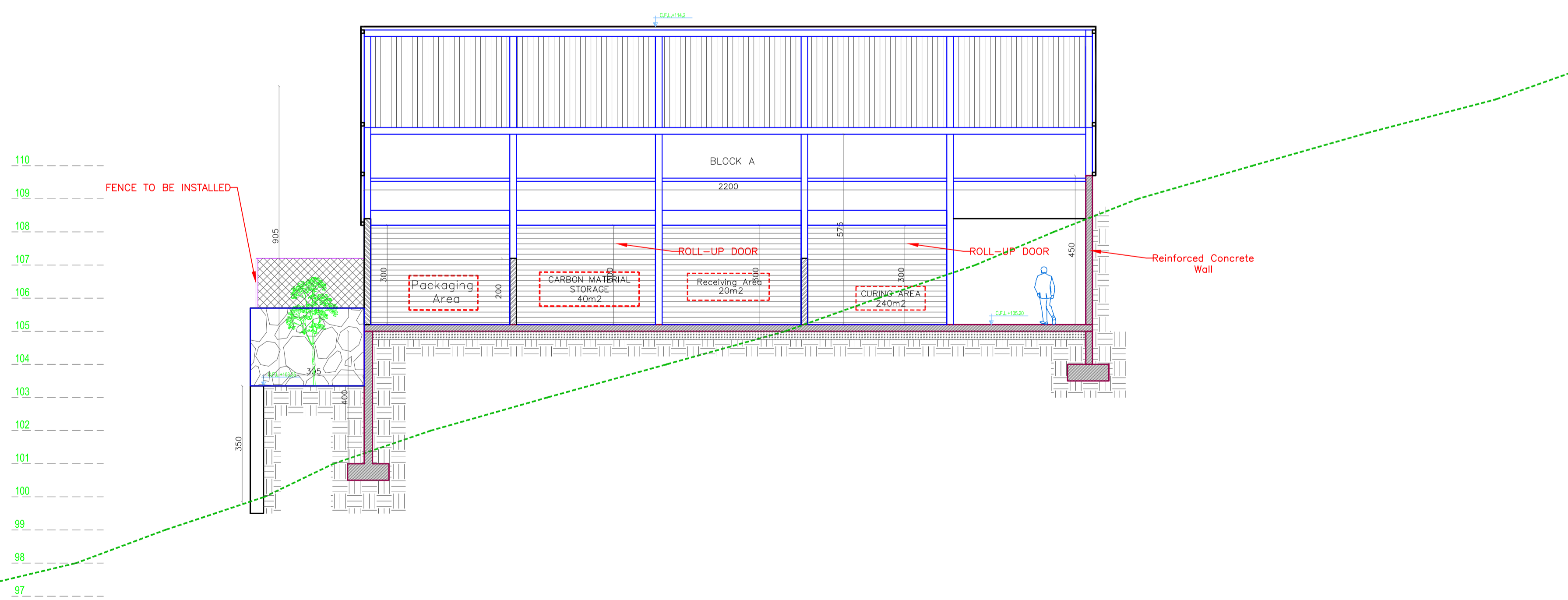
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SETCION AA



SETCION BB

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Project Name

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DRAWING TITLE:

SECTIONS AA & BB

DRAWING NUMBER A06

SCALE : 1/100 DATE :06/06/2022



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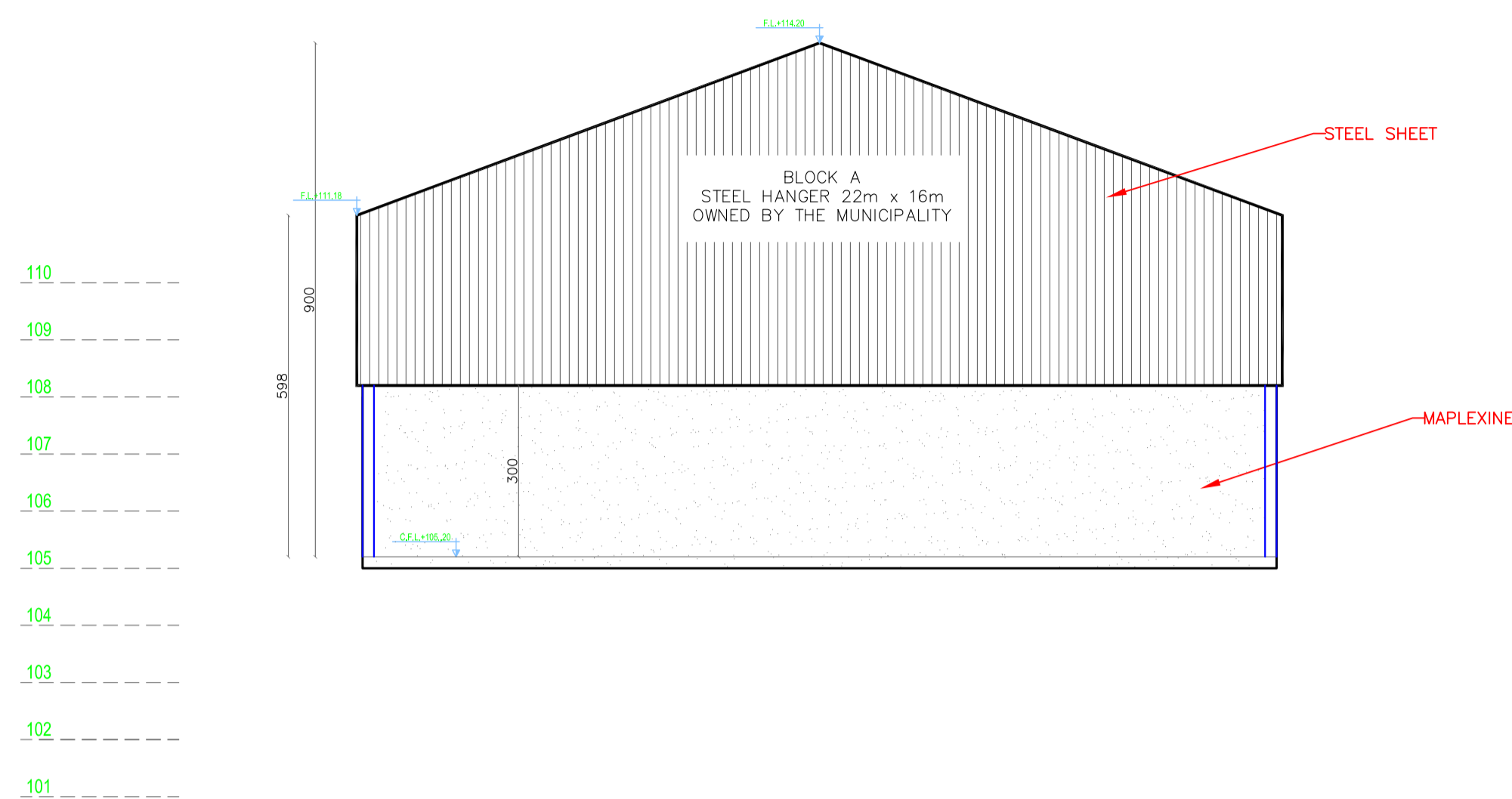
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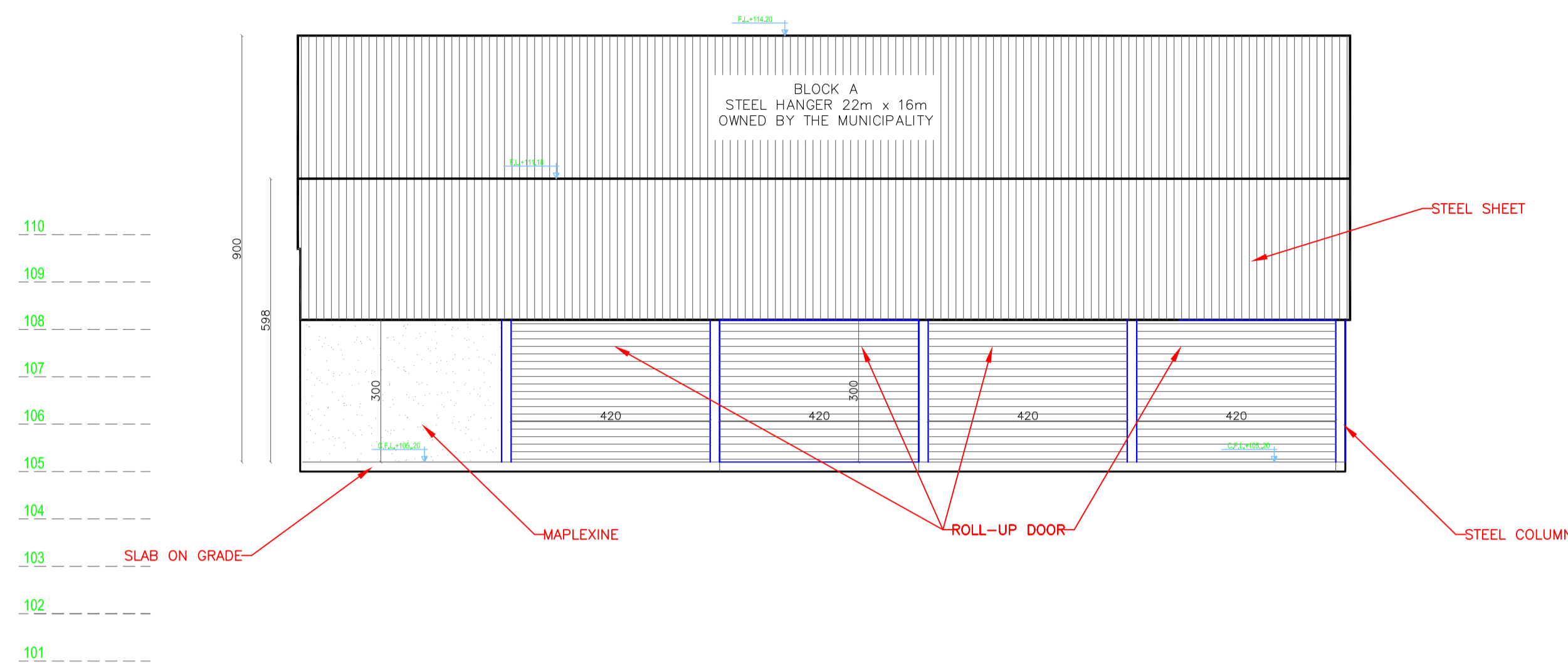
ELEVATIONS

DRAWING NUMBER A07

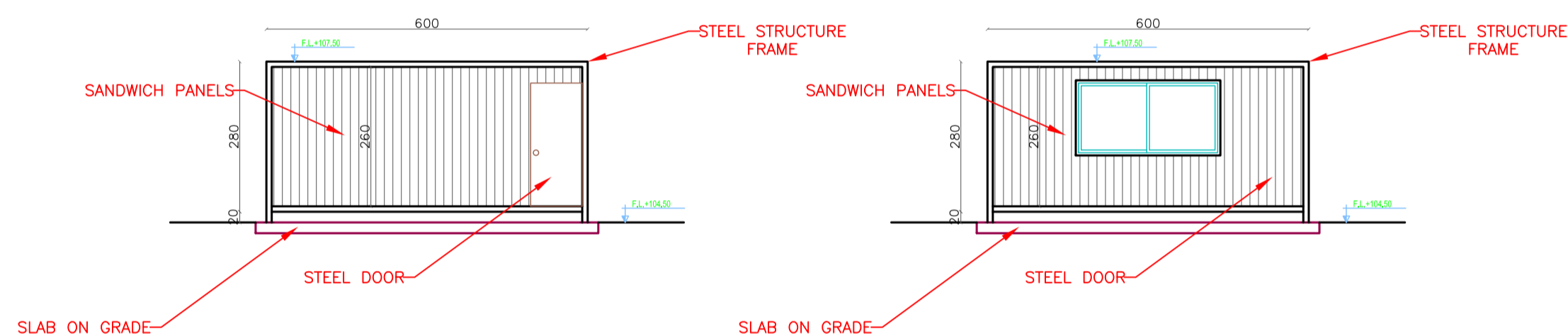
SCALE : 1/100 DATE : 06/06/2022



BLOCK A
EAST NORHT ELEVATION

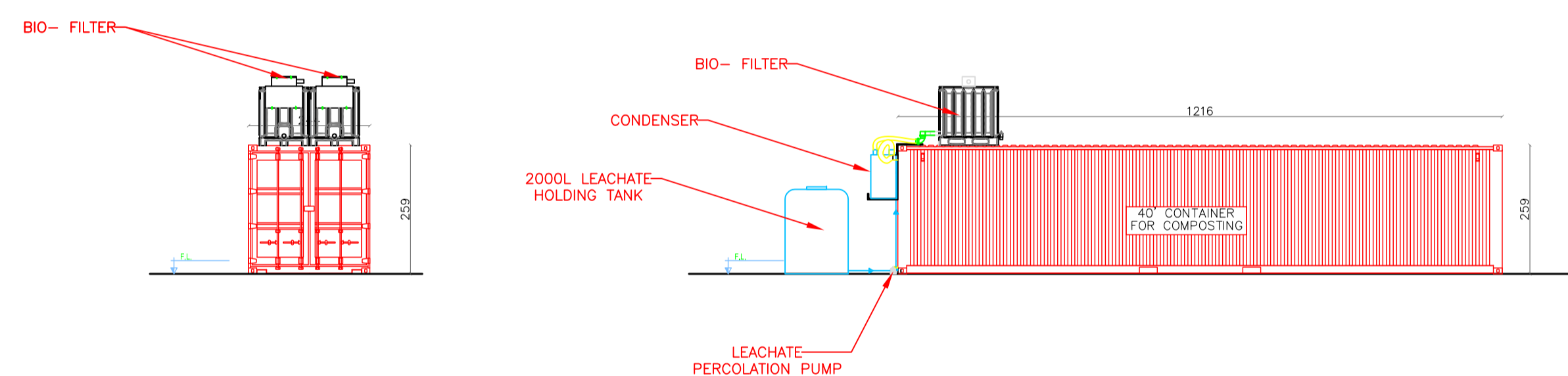


BLOCK A
WEST ELEVATION



BLOCK B
SOUTH EAST ELEVATION

BLOCK B
SOUTH WEST ELEVATION



40' CONTAINER FOR COMPOSTING
MAIN ELEVATION

40' CONTAINER FOR COMPOSTING
SIDE ELEVATION

IMPORTANT NOTE:
THE DETAILED DRAWINGS OF THE CONTAINER COMPOSTER WILL BE PROVIDED IN A SEPARATE SUBMISSION



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Project Name
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RACHAYA EL WADI - BEKAA

DRAWING TITLE:
PRODUCTION LINE &
EQUIPMENT

DRAWING NUMBER
A08

SCALE : 1/100 DATE : 06/06/2022

