

## CHAPTER II

### INTERNSHIP ACTIVITY

#### 2.1 Company Background

The strategic development of the PT Busana Remaja Argacipta Production Plant is situated in Jonggrangan, Klodran, Bantul, within the Special Region of Yogyakarta. Executed through a collaborative effort with the principal contractor, PT Putra Mataram Perkasa, the project is subject to managerial and design oversight by Hastu Nugroho, ST. The ambit of construction encompasses the establishment of foundations, installation of pile caps, positioning of connecting beams, and the erection of foundation columns, with an emphasis on utilizing heavy steel as the primary construction material.

The paramount objective of this undertaking is to augment operational efficiency and optimize production capacity at PT Busana Remaja Argacipta. This strategic initiative is prompted by the imperative to address challenges stemming from production facilities deemed incongruent due to inherent operational issues.

The construction project, conducted under PT Putra Mataram Perkasa, unfolds within the purview of comprehensive planning. It seeks not only to operational shortcomings but also to position PT Busana Remaja Argacipta as a paradigm of efficiency within its industrial landscape. The utilization of Heavy Steel in the construction material underscores a commitment to structural robustness and durability, aligning with the exigencies of contemporary engineering standards.

The orchestration of foundational elements, such as CNP iron, Castella technique and using honey comb technique in the iron circuit. This multifaceted construction initiative, governed by a holistic perspective, reflects an overarching commitment to improve moperational impediments and cultivate a production that aligned with contemporary industry standards.

#### 2.2 Project Data

- |                        |   |   |
|------------------------|---|---|
| a. Infrastructure name | : | Gedung Produksi PT. BRA Accessories Indonesia |
| b. Work Type           | : | Infrastructure Building                       |
| c. Location            | : | Bantul, Yogyakarta                            |
| d. Project Owner       | : | PT. BRA Accessories Indonesia                 |
| e. Main Contractor     | : | PT. Putra Mataram Perkasa                     |
| f. Project Management  | : | PT. Putra Mataram Perkasa                     |
| g. Project Designer    | : | PT. Putra Mataram Perkasa                     |

- h. Contract Value : Rp7.700.000.000
- i. Work Scope : Stake Pile, Pile cap, Tie Beam, Pedestal Column and Heavy Steel Mounting
- j. Floor : 4 Floor
- k. Total Construction Area : 2.034 m<sup>2</sup>
- l. Work Period : 14 Months

## 2.3 Technical Data

### A. Time

The internship was implemented on:

- Place : PT. PUTRA MATARAM PERKASA
- Field Location : Jl. Lingkar Selatan, Ds Singosaren Banguntapan, Bantul, D.I  
Yogyakarta 55193, Indonesia
- Address : Gito Gati street. No 113, Ngalik, Sleman, Yogyakarta.
- Time : 30 August 2023 – 30 December 2023

## B. Locations

PT. Busana Remaja Agracipta in Jonggarangan, Klodran, Bantul, Special Region Yogyakarta as the field supervisor.

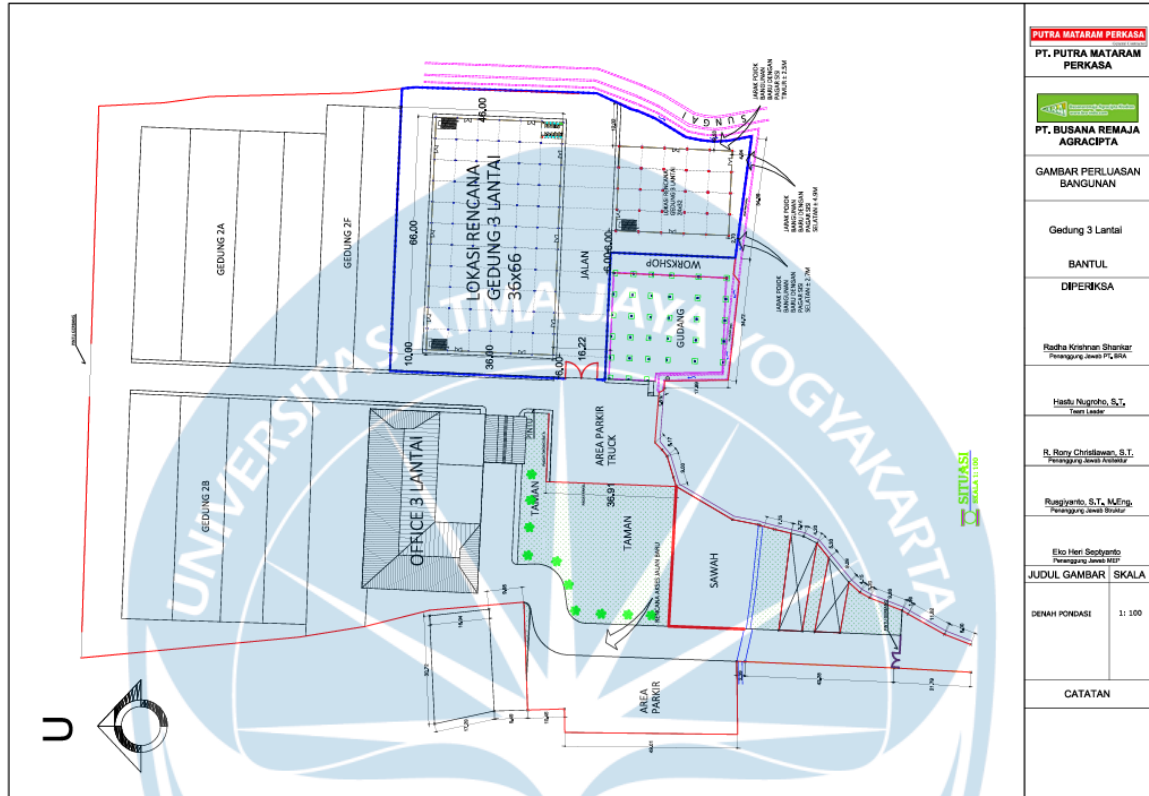


Figure 2.3.1 Site Plan of the Project

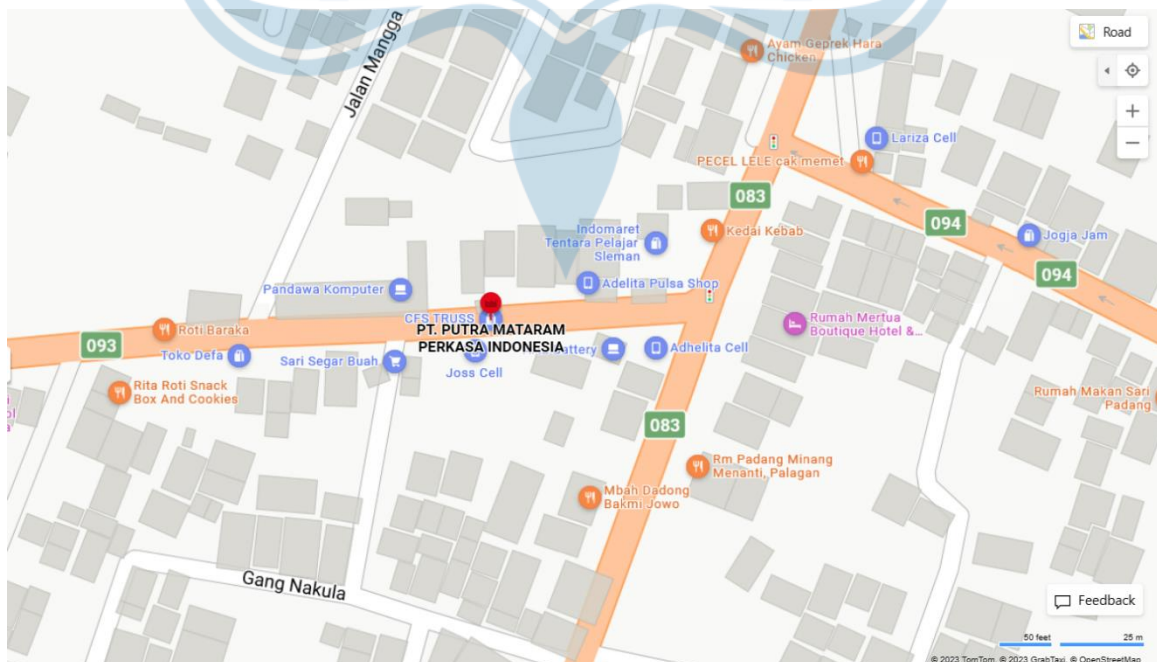


Figure 2.3.2 The Putra Mataram Perkasa main office

## 2.4 Internship Period

The internship period was begin in the August 1, 2023 and ends in December 30, 2023.

	Sunday	Monday	Tuesday	Wednesday	Thrusday	Friday	Saturday
Week 1							
Week 2							
Week 3							
Week 4							

**Table 2.4.1 August Internship Period Table**

	Sunday	Monday	Tuesday	Wednesday	Thrusday	Friday	Saturday
Week 1							
Week 2							
Week 3							
Week 4							

**Table 2.4.2 September Internship Period Table**

	Sunday	Monday	Tuesday	Wednesday	Thrusday	Friday	Saturday
Week 1							
Week 2							
Week 3							
Week 4							

**Table 2.4.3 October Internship Period Table**

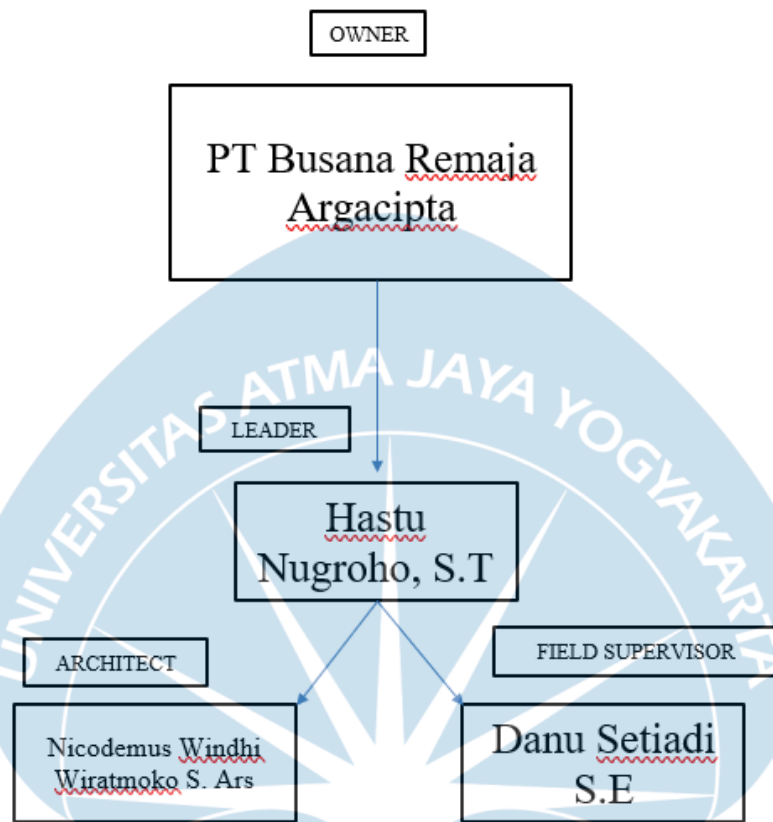
	Sunday	Monday	Tuesday	Wednesday	Thrusday	Friday	Saturday
Week 1							
Week 2							
Week 3							
Week 4							

**Table 2.4.4 November Internship Period Table**

	Sunday	Monday	Tuesday	Wednesday	Thrusday	Friday	Saturday
Week 1							
Week 2							
Week 3							

**Table 2.4.5 December Internship Period Table**

## 2.5 Structure Organization



**Figure 2.5.1 PT. PUTRA MATARAM PERKASA ORGANIZATION STRUCTURE**

## 2.6 Implementation

In the internship, the author acts as an Assistant Field Supervisor, tasked with overseeing and attending to the needs of the on-site workforce. Furthermore, an additional responsibility involves revising images within the primary visual representation used for client communication. This dual role emphasizes the author's involvement in both managerial supervision and the refinement of visual materials for effective client presentation.

Throughout the internship duration, the practitioner engaged in a spectrum of activities commencing with a punctual commencement at 7:00 AM at the designated job site. Upon arrival the materials earmarked for utilization ensued, accompanied by an inventory of items or tools that have reached obsolescence or those still deemed serviceable. Additionally, a comprehensive assessment was conducted concerning the project's ancillary facilities, encompassing the examination of extant staircases, the availability of potable water for laborers, and the allocation of water for wall flushing.

Beyond these logistical considerations, the author diligently cultivated a discerning acumen for time management throughout the internship, attuning to the exigencies inherent in the field

conditions. This multifaceted engagement facilitated a holistic comprehension of the operational intricacies characterizing the internship, thereby enhancing the author's practical understanding of the project's dynamics.



**Figure 2.6.1 The First day at the Internship site project.**

This photograph captures a moment from the author's inaugural day of internship, dated June 31, 2023. During this instance, the author is engaged in overseeing the construction of the wall designated for the first floor. Additionally, the author is involved in monitoring the nocturnal lifting of materials, a necessary measure implemented in response to delays in the timely delivery of forthcoming materials.



**Figure 2.6.2 Site Project Conditions without any walls just steel structure.**



**Figure 2.6.3 Preparations for the third-floor concrete**

The concrete to be used uses concrete that has ATO quality better known as standard K250 concrete.



**Figure 2.6.4 Condition after casting the floor.**



**Figure 2.6.10 Material for the third floor.**

Following the manufacturing process, the material designated for the third floor was dispatched to the project site. Due to safety concerns related to the hazardous conditions below, the author was constrained to capture photographic documentation solely from the vantage point of the third floor.



**Figure 2.6.11 Polishing the wall on the first floor (1 week work)**





**Figure 2.6.12 Condition the first floor after the wall was polish (Clearing area for continue work at the second floor)**



**Figure 2.6.13 Condition outside building after the wall polish**

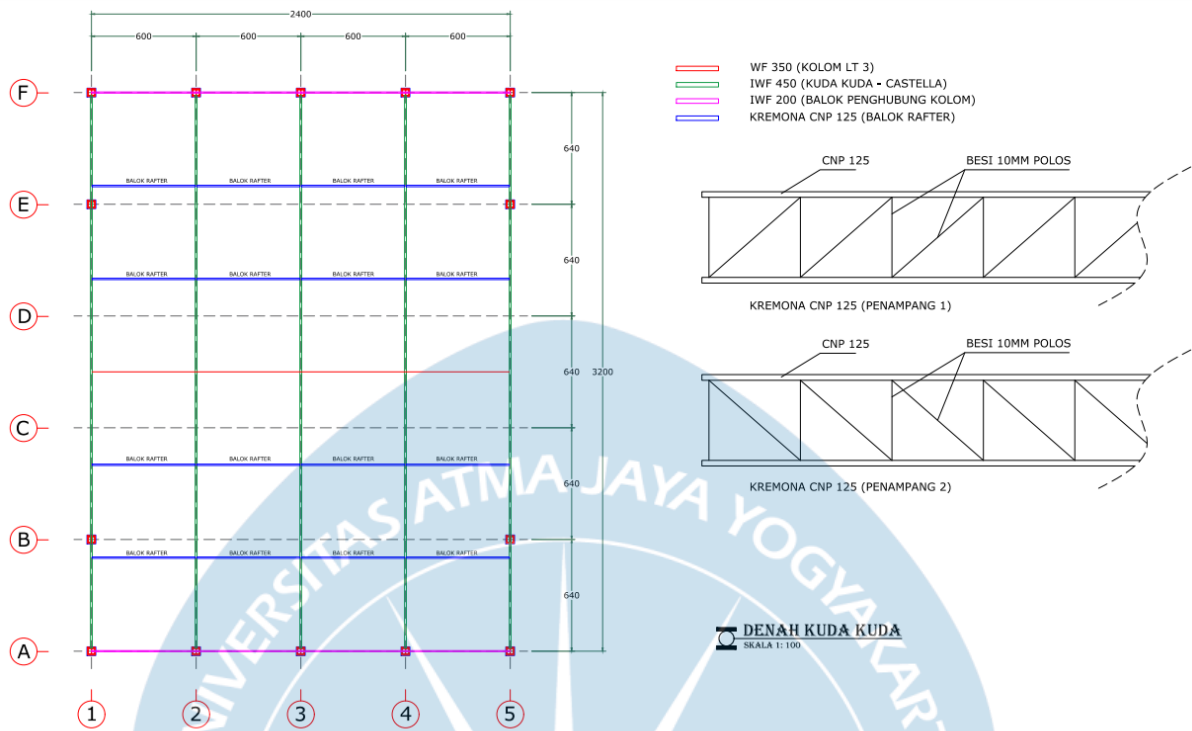


**Figure 2.6.14 Third floor condition before the roof installation**



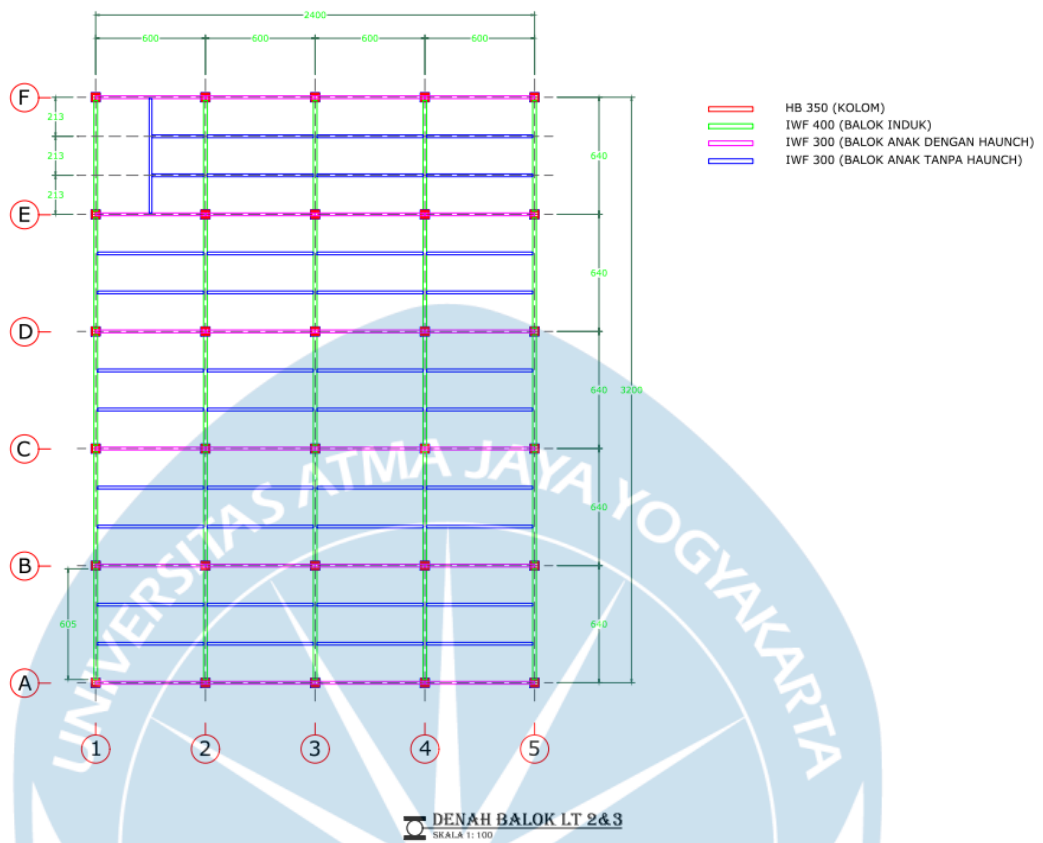
**Figure 2.6.15 Third floor condition after the roof installation**

And while conducting internship activities in the form of supervision in the field, the author also held several meetings and discussions with the drafters and was assigned to revise some drawings that would be used to explain to the factory owner.

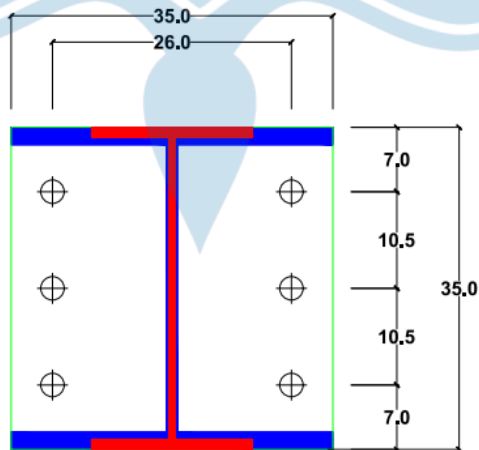


**Figure 2.6.16 The Easel floor plan**

The structural elements employed in the construction include WF 350 as the column, IWF 450 for the Castella, IWF 200 serving as the beam section, and CNP 125 utilized as a rafter beam.

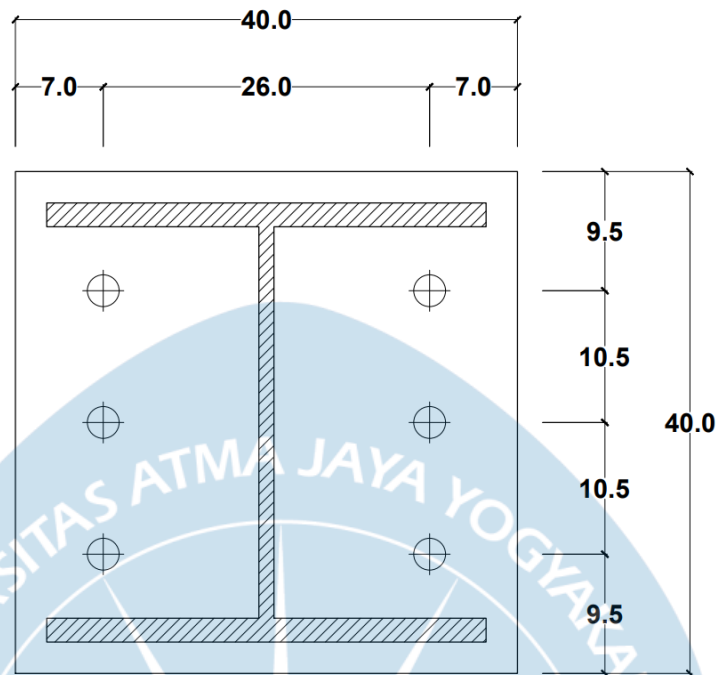


**Figure 2.6.17 Beam for second and third floor**



**Figure 2.6.18 Column based Plate (35x35)**

HB350 column baseplate to wf column 350 12mm (35cmx35cm) drill bit 22 mm  
 TOTAL: 60 pieces.



**Figure 2.6.19 Column based plate (40x40)**

BASEPLATE COLUMN HB350 16mm (40cmx40cm) 26mm drill bit total 30 pieces

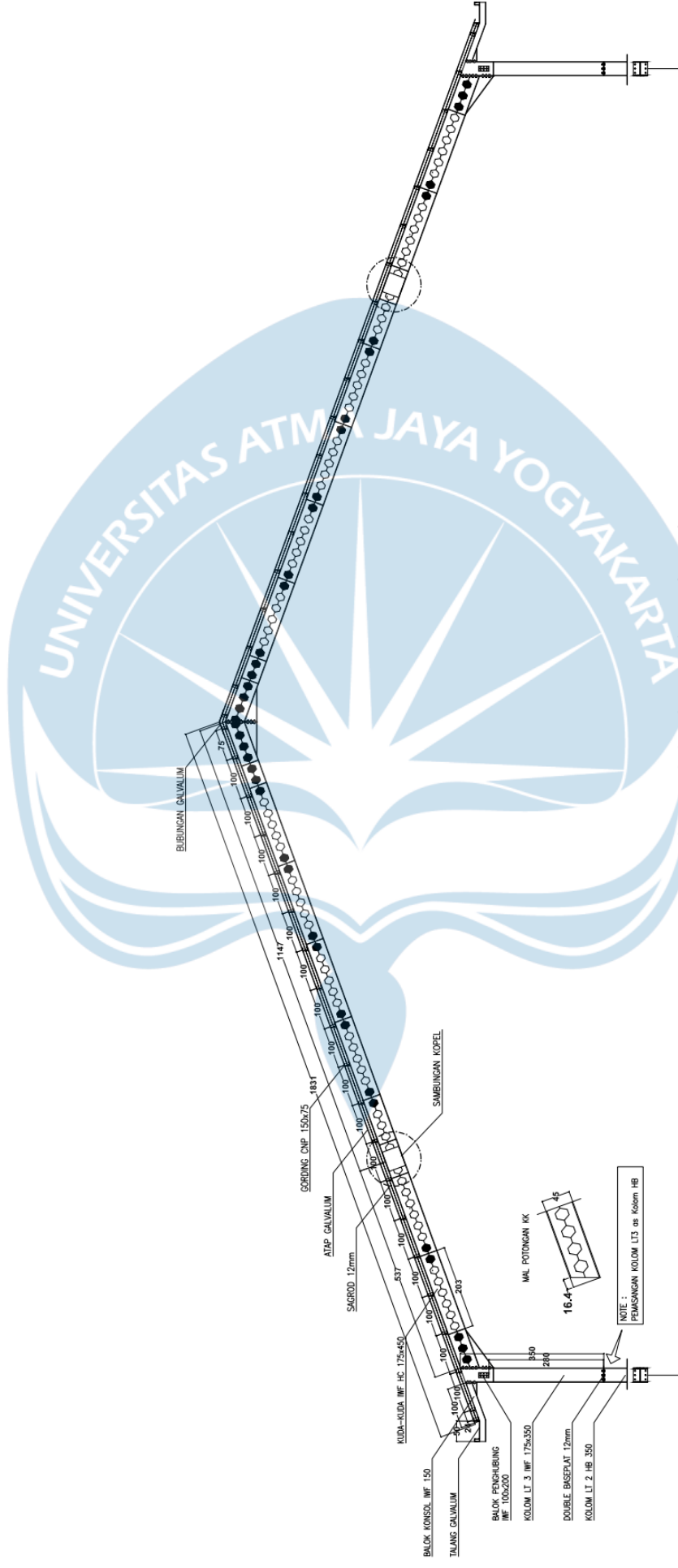
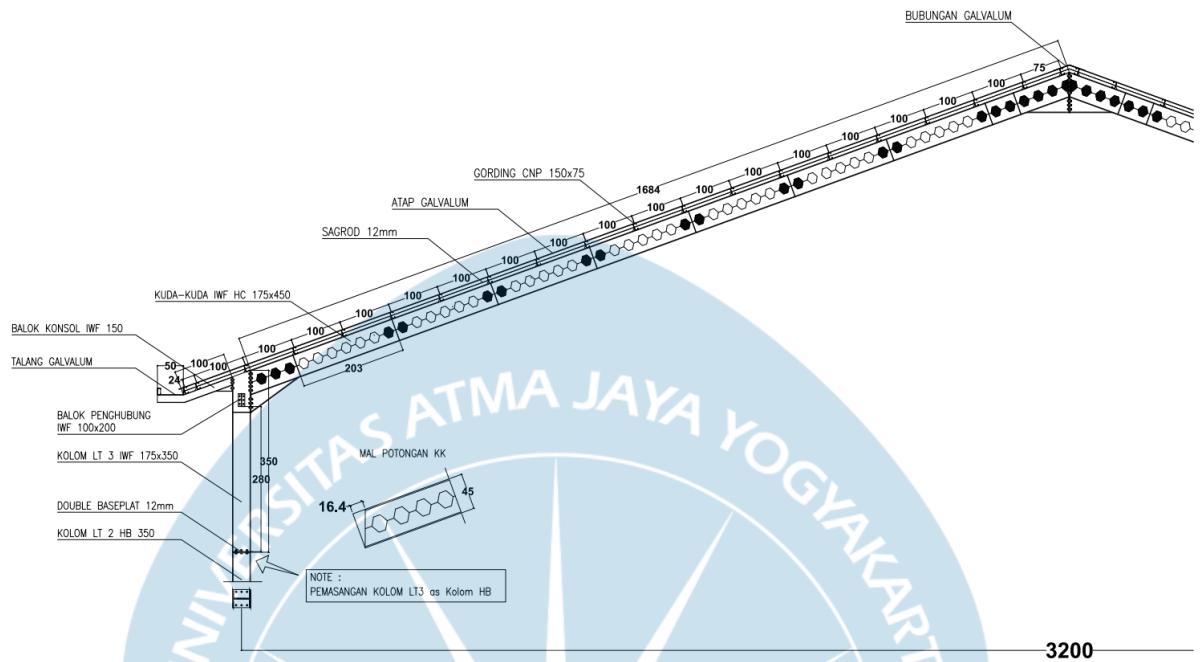
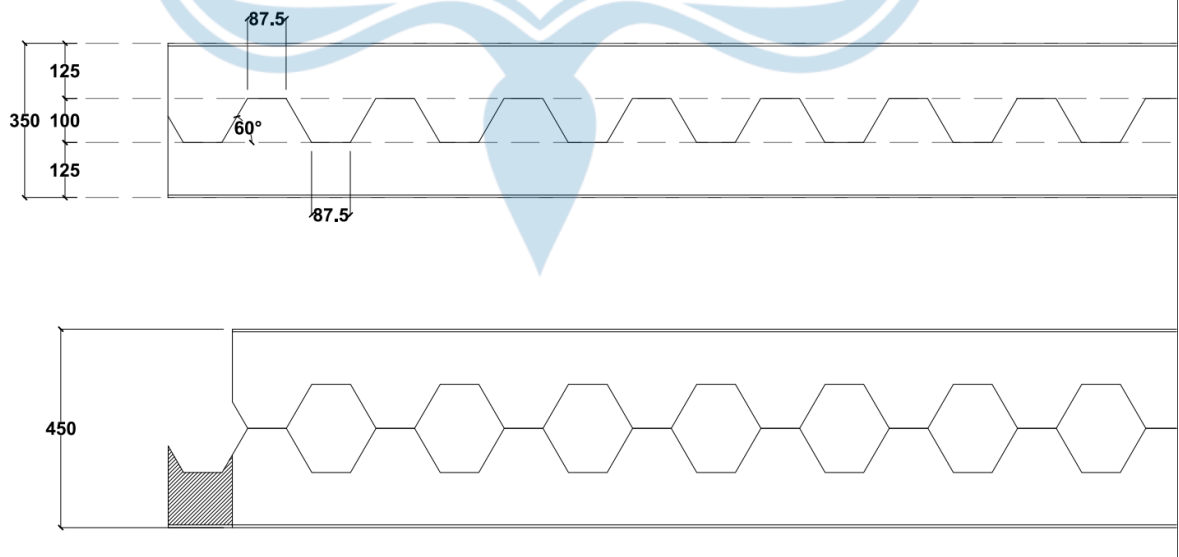


Figure 2.3.24 Drawing of roof plan

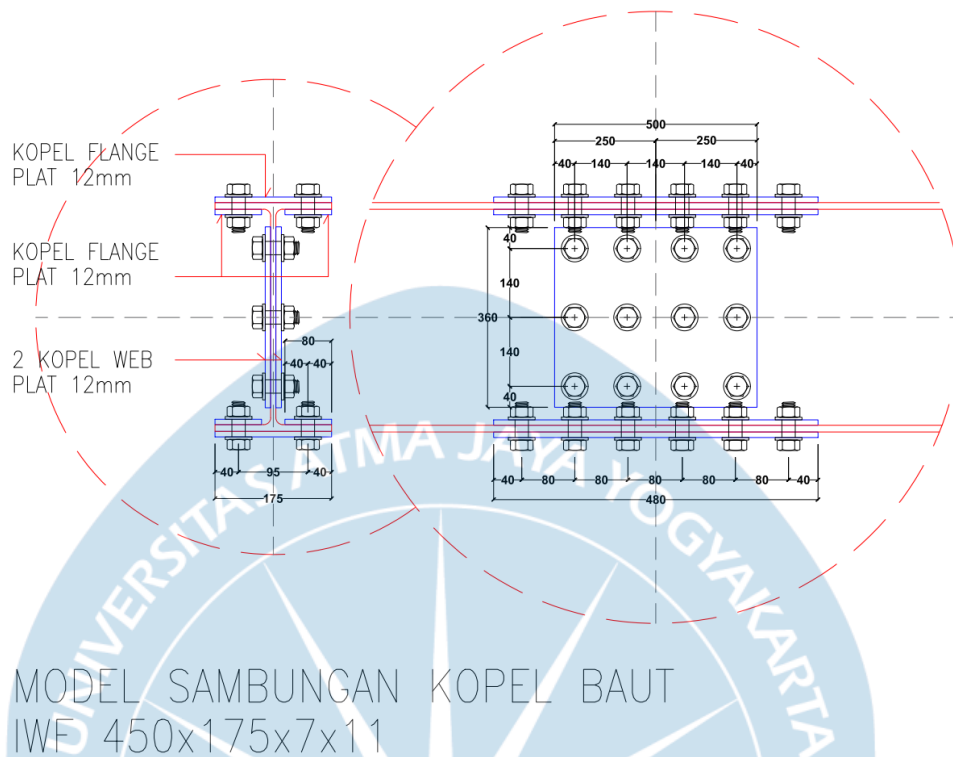


**Figure 2.6.24 The explanation of material using in roof section**

**IWF 175x350 CASTELATED TO IWF 175x450**



**Figure 2.6.15 IWF 175x350 castelated to IWF 175x450**



**Figure 2.6.26 IWF bolt coupling connection model 450x175x7x11**

## 2.7 The Linkage of Internship Implementation with Conversion Courses

Between the internship experience and the subject under consideration manifests in the culmination of the final stage 2 project. This project entails a sequential progression of manufacturing and organizational tasks, underscored by the tangible presence of heavy steel elements that can be observed firsthand. The translatability of knowledge acquired through campus learning into practical field applications is a salient aspect of this relationship. Additionally, the internship introduces the concepts, such as honeycomb connections, not covered in the traditional campus curriculum.