

SURAT PENCATATAN CIPTAAN

Dalam rangka perlindungan ciptaan di bidang ilmu pengetahuan, seni dan sastra berdasarkan Undang-Undang Nomor 28 Tahun 2014 tentang Hak Cipta, dengan ini menerangkan:

Nomor dan tanggal permohonan : EC002025123331, 2 September 2025

Pencipta

Nama : **Michael Carlo Tatang dan Theresia Budi Jayanti**
Alamat : Perumahan Permata Mediterania Cluster Amethyst Raya No. 16A,
Kembangan, Kota Adm. Jakarta Barat, DKI Jakarta, 11630
Kewarganegaraan : Indonesia

Pemegang Hak Cipta

Nama : **Lembaga Penelitian dan Pengabdian Masyarakat Universitas Tarumanagara**
Alamat : Jl. Letjen. S. Parman No.1, Grogol Petamburan, Kota Adm. Jakarta Barat, DKI Jakarta, 11440
Kewarganegaraan : Indonesia
Jenis Ciptaan : **Arsitektur**
Judul Ciptaan : **ECOFUSION : ARCHITECTURAL OF RECYCLING AND PLAY**
Tanggal dan tempat diumumkan untuk pertama kali di wilayah Indonesia atau di luar wilayah Indonesia : 7 Juli 2025, di Kota Adm. Jakarta Barat
Jangka waktu perlindungan : Berlaku selama 50 (lima puluh) tahun sejak Ciptaan tersebut pertama kali dilakukan Pengumuman.
Nomor Pencatatan : 000963592

adalah benar berdasarkan keterangan yang diberikan oleh Pemohon.
Surat Pencatatan Hak Cipta atau produk Hak terkait ini sesuai dengan Pasal 72 Undang-Undang Nomor 28 Tahun 2014 tentang Hak Cipta.



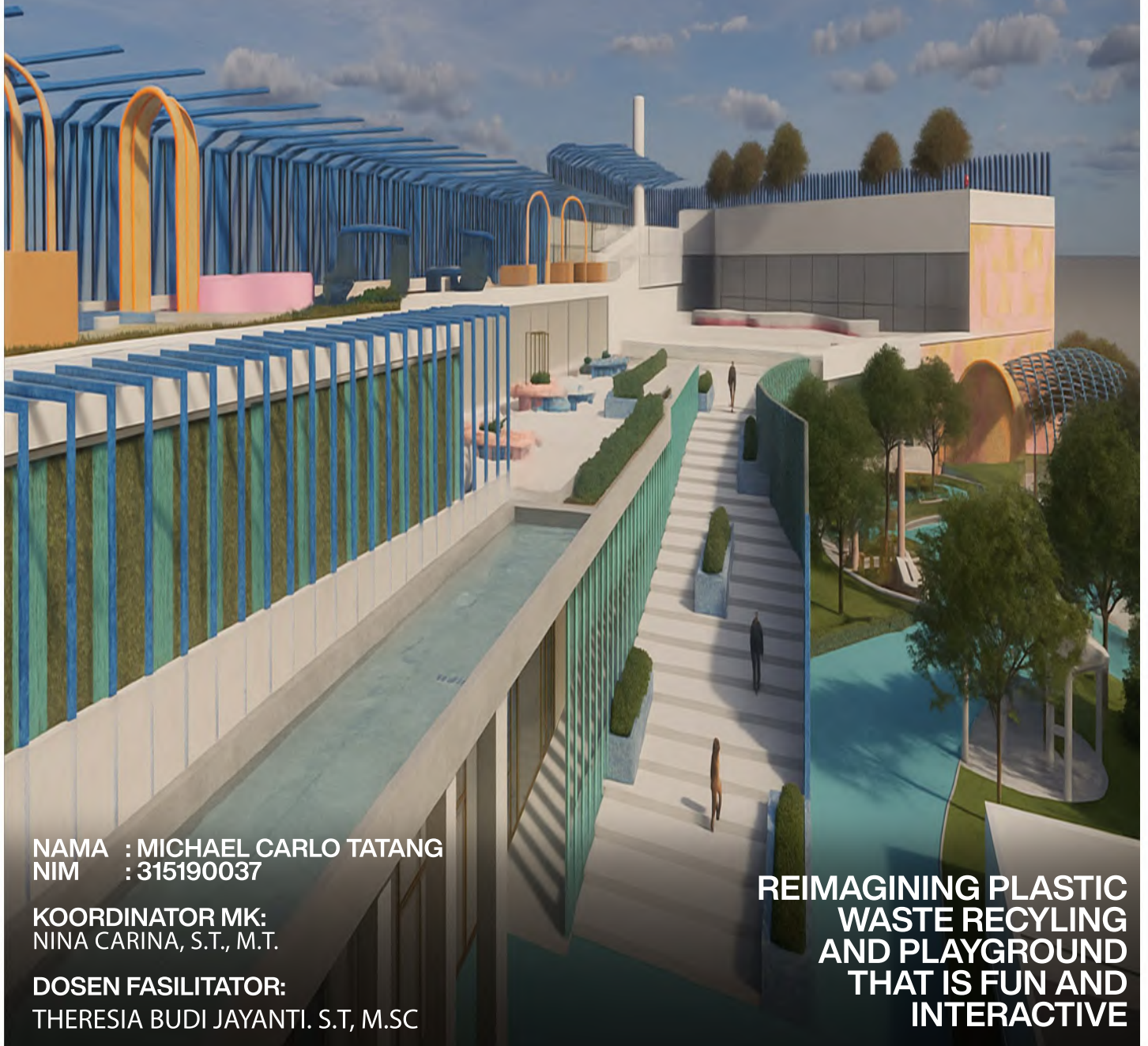
a.n. MENTERI HUKUM
DIREKTUR JENDERAL KEKAYAAN INTELEKTUAL
u.b
Direktur Hak Cipta dan Desain Industri

Agung Damarsasongko,SH.,MH.
NIP. 196912261994031001



UNTAR
Universitas Tarumanagara

ECOFUSION: ARCHITECTURAL OF RECYCLING AND PLAY



NAMA : MICHAEL CARLO TATANG
NIM : 315190037

KOORDINATOR MK:
NINA CARINA, S.T., M.T.

DOSEN FASILITATOR:
THERESIA BUDI JAYANTI. S.T, M.SC

**REIMAGINING PLASTIC
WASTE RECYCLING
AND PLAYGROUND
THAT IS FUN AND
INTERACTIVE**

**REGENERATIVE
ARCHITECTURE**

PORTOFOLIO I STUDIO PERANCANGAN ARSITEKTUR 8.39
PROGRAM STUDI SARJANA ARSITEKTUR
FAKULTAS TEKNIK-UNIVERSITAS TARUMANAGARA
SEMESTER GENAP TAHUN AKADEMIK 2024/2025



ECOFUSION : ARCHITECTURAL OF RECYCLING AND PLAY

REIMAGINING PLASTIC WASTE RECYCLING AND PLAYGROUND THAT IS FUN AND INTERACTIVE

NAMA : MICHAEL CARLO TATANG
NIM : 315190037

FASILITATOR : THERESIA BUDI JAYANTI. S.T, M.SC

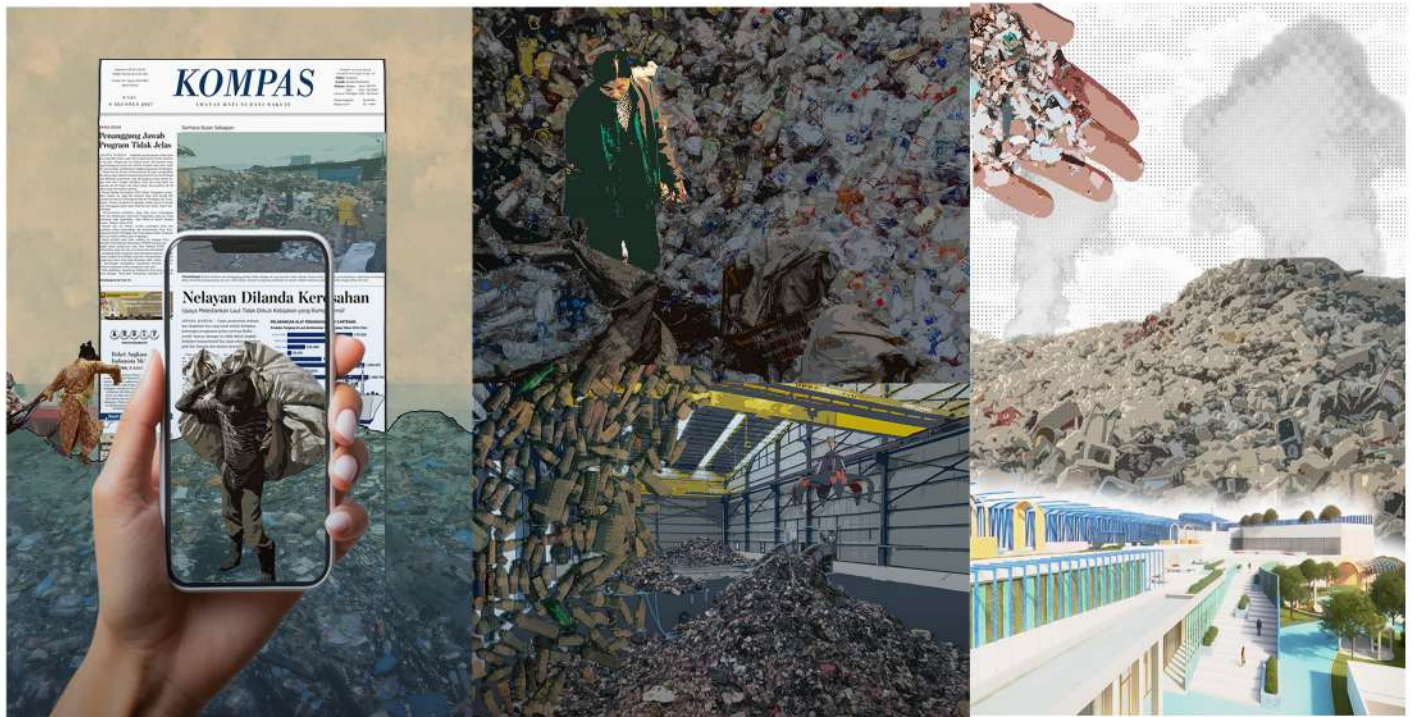
LOKASI PROYEK : MUARA BARU

PROJECT DESCRIPTION

THIS PROJECT ADDRESSES THE PLASTIC WASTE PROBLEM IN MUARA BARU, NORTH JAKARTA, THROUGH A REGENERATIVE ARCHITECTURAL SOLUTION IN THE FORM OF A MODULAR PLAYGROUND MADE FROM RECYCLED PLASTIC. COMBINING PLAYFUL ARCHITECTURE WITH SUSTAINABILITY, THE DESIGN AIMS TO SPARK COMMUNITY CREATIVITY WHILE RAISING EARLY ENVIRONMENTAL AWARENESS.

RECYCLED PLASTIC IS UTILIZED IN ARCHITECTURAL ELEMENTS SUCH AS FACADES, FURNITURE, AND FINISHES, AND IS ALSO TRANSFORMED BY LOCAL RESIDENTS INTO CREATIVE, INCOME-GENERATING PRODUCTS. THE PROJECT SERVES AS A POTENTIAL MODEL FOR ECO-FRIENDLY PUBLIC SPACES IN OTHER URBAN AREAS FACING SIMILAR ENVIRONMENTAL CHALLENGES.

TIMELINE



PAST

Muara Baru, a coastal area in North Jakarta, is facing a serious plastic waste problem marine ecosystem disruption, and increased flooding from clogged waterways. It also poses health risks to the community, including the consumption of microplastics through seafood, the spread of diseases from waste accumulation, and respiratory problems caused by the burning of plastic.

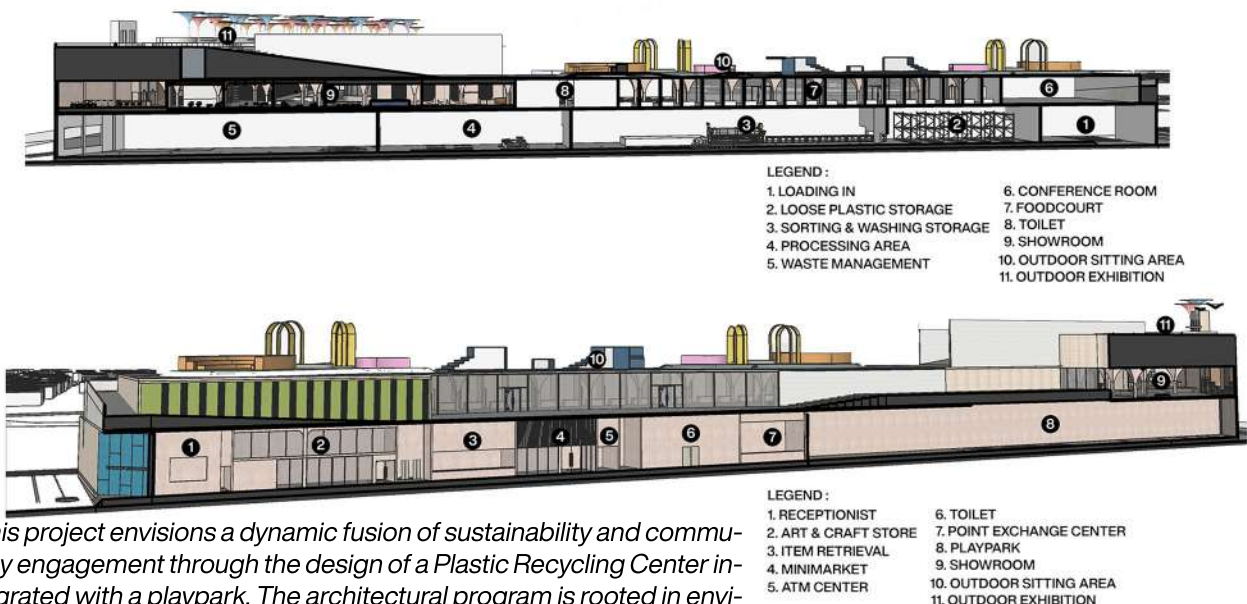
PRESENT

The plastic waste problem is driven by large amounts of unprocessed plastic that end up in landfills and waterways due to poor waste management. Industrial and commercial activities, such as packaging, retail, and fishing, contribute significantly by generating high volumes of single-use plastics. Without proper recycling systems, this waste accumulates, pollutes the environment, and harms ecosystems.

FUTURE

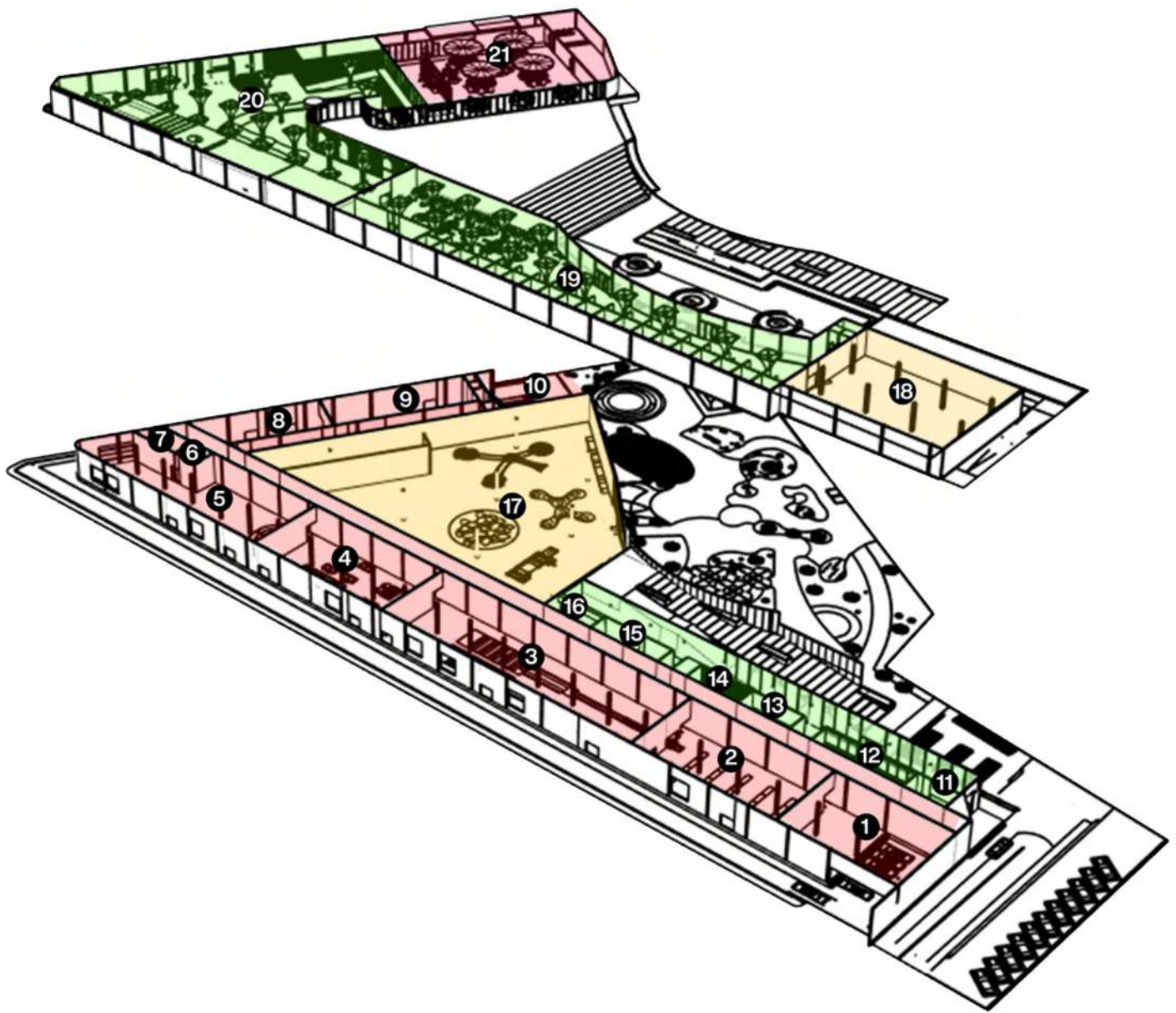
To reduce microplastic pollution, plastic waste should be recycled into durable products such as furniture and playground equipment. This approach not only prevents plastic from breaking down into harmful microplastics but also gives it a second life in useful, long-lasting forms, supporting both environmental sustainability and community needs.

PROGRAM



This project envisions a dynamic fusion of sustainability and community engagement through the design of a Plastic Recycling Center integrated with a playpark. The architectural program is rooted in environmental responsibility, transforming waste into a resource while fostering educational and recreational opportunities

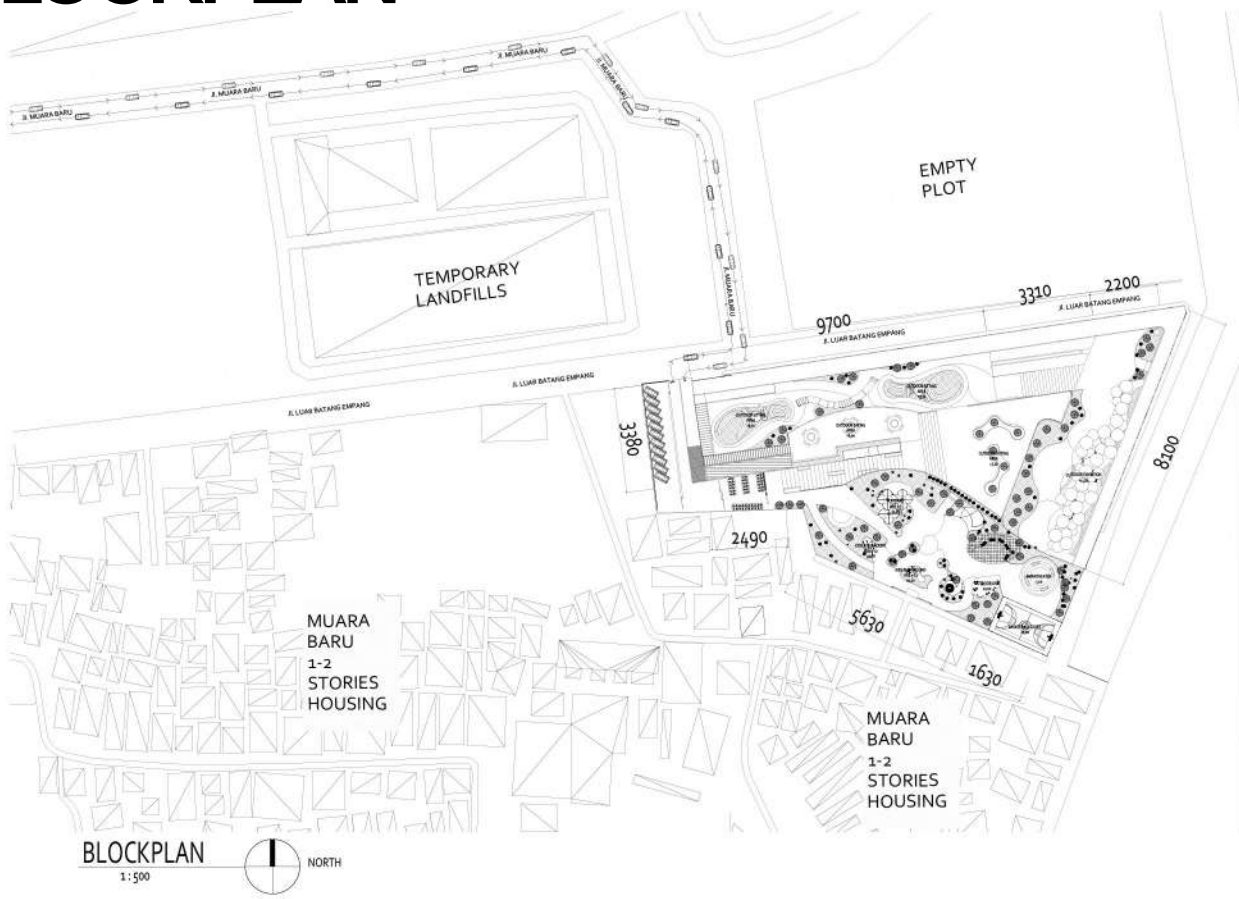
EXPLODED PLAN



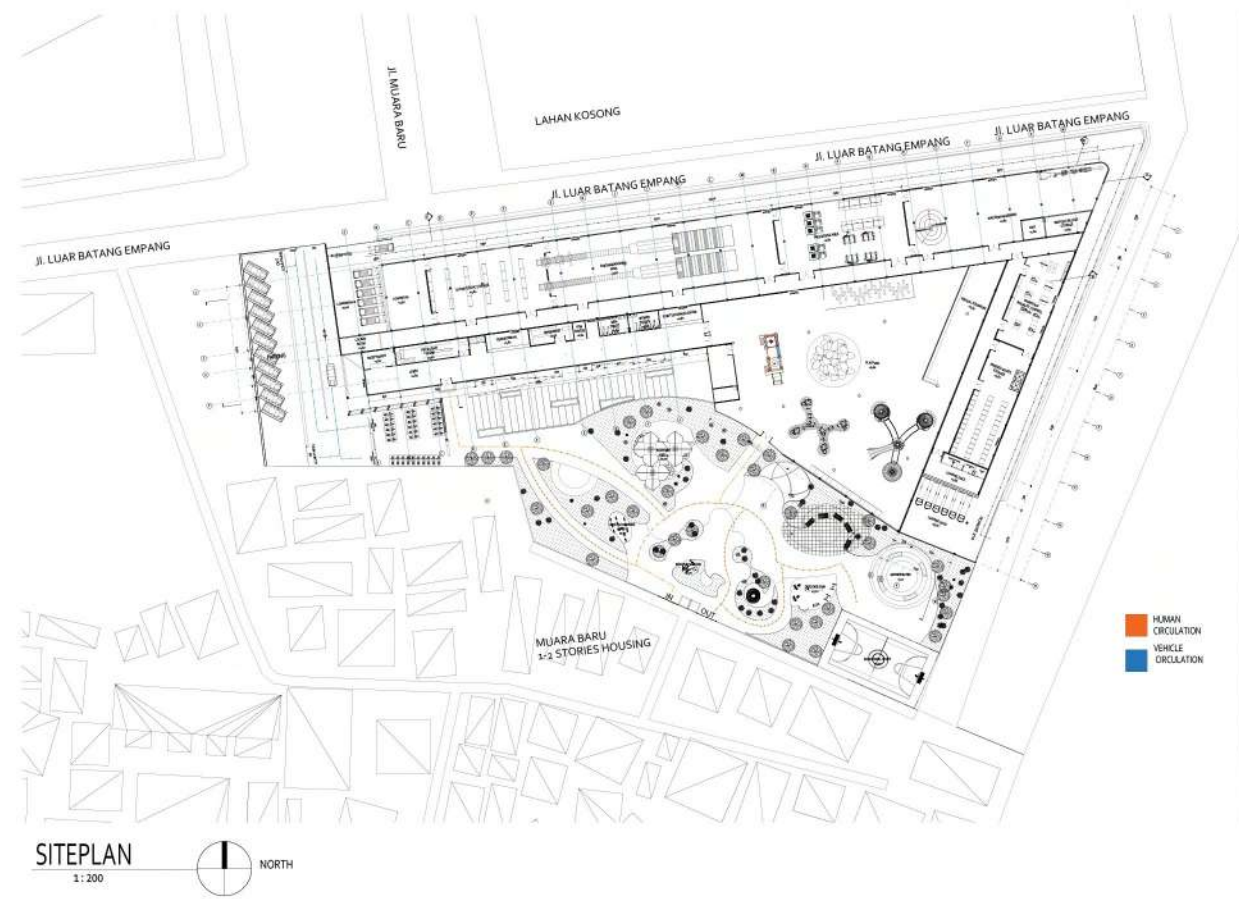
LEGEND :

- | | |
|-------------------------------|---------------------------|
| 1. LOADING IN | 11. LOBBY |
| 2. LOOSE PLASTIC STORAGE | 12. ART & CRAFT STORE |
| 3. SORTING & WASHING AREA | 13. ITEM RETRIEVAL |
| 4. PROCESSING AREA | 14. MINIMARKET |
| 5. WASTE MANAGEMENT | 15. TOILET |
| 6. GWT | 16. POINT EXCHANGE CENTER |
| 7. BIOFUELS BLOCKS STORAGE | 17. PLAYPARK |
| 8. WORKSHOP & QUALITY CONTROL | 18. CONFERENCE ROOM |
| 9. FINISHED GOODS STORAGE | 19. FOODCOURT |
| 10. LOADING OUT | 20. SHOWROOM |
| | 21. OFFICE |

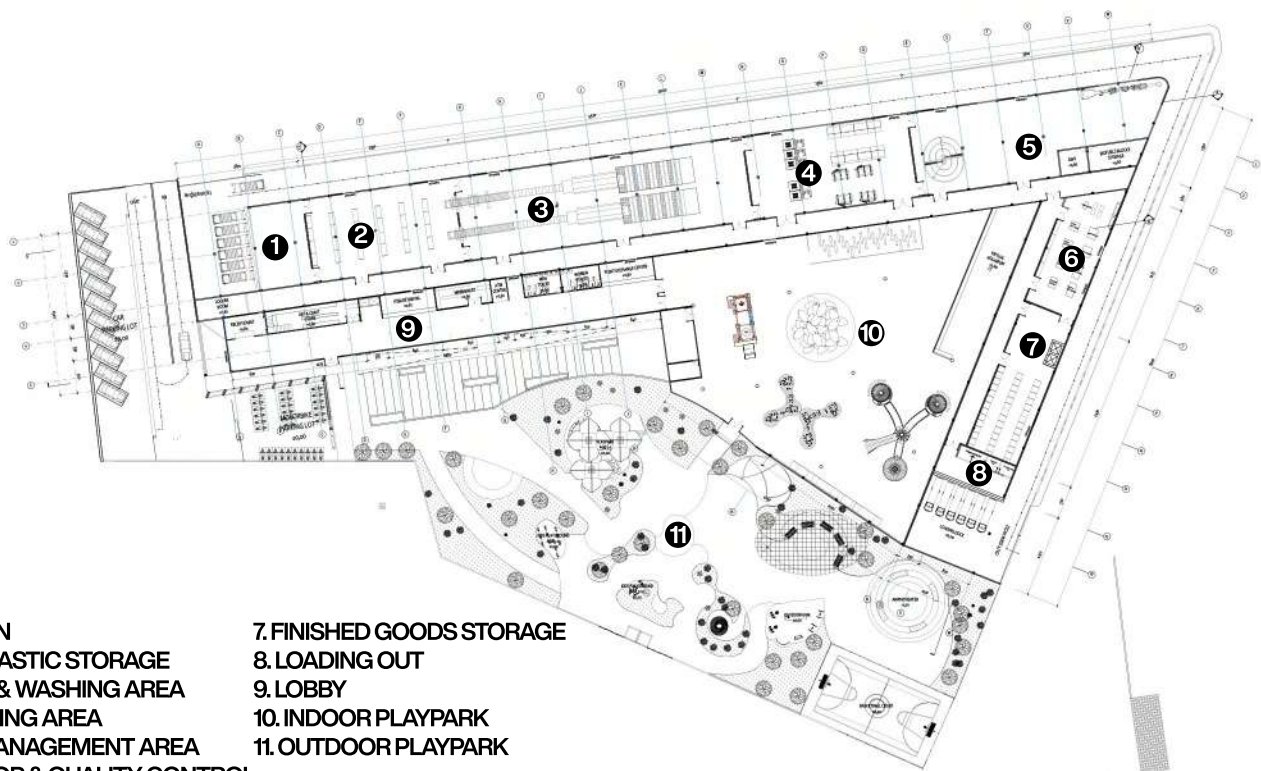
BLOCKPLAN



SITEPLAN



FLOORPLAN

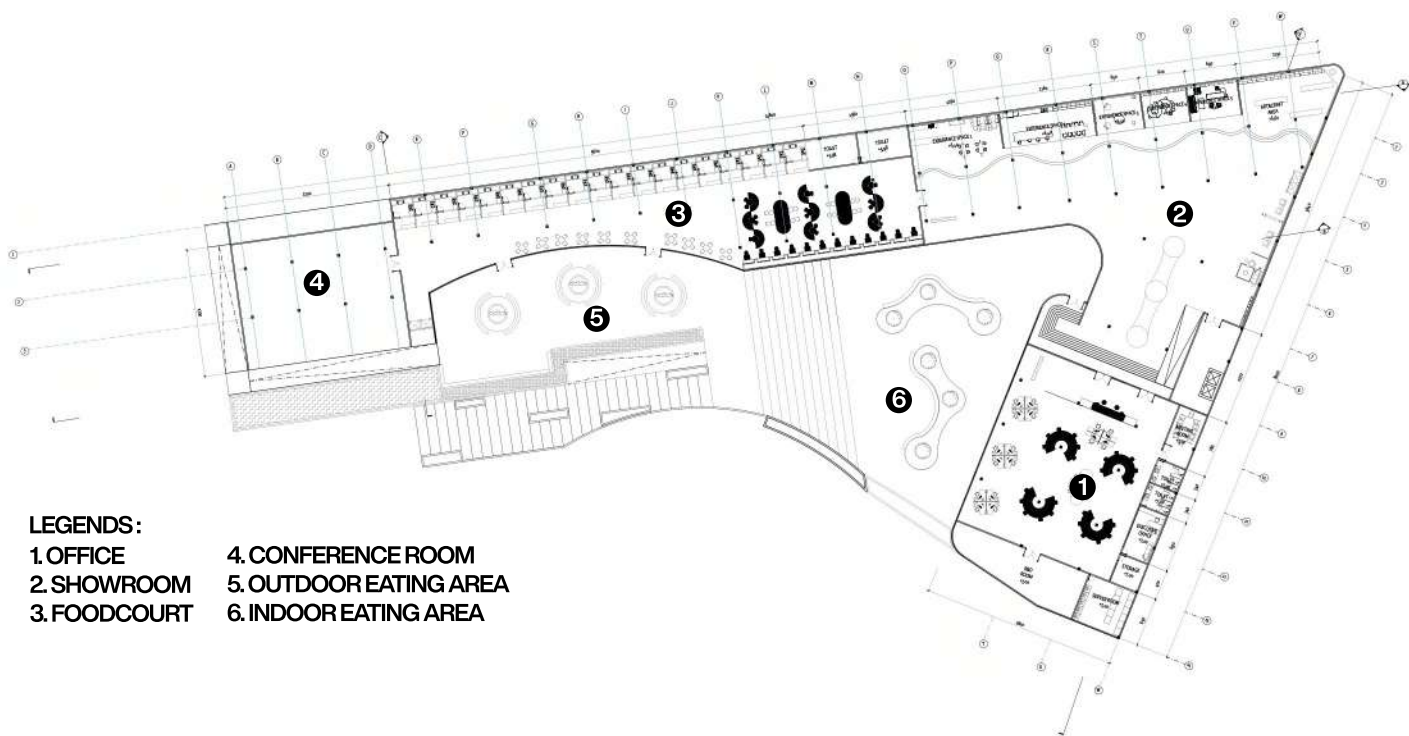


- LEGENDS:
- | | |
|-------------------------------|---------------------------|
| 1. LOADING IN | 7. FINISHED GOODS STORAGE |
| 2. LOOSE PLASTIC STORAGE | 8. LOADING OUT |
| 3. SORTING & WASHING AREA | 9. LOBBY |
| 4. PROCESSING AREA | 10. INDOOR PLAYPARK |
| 5. WASTE MANAGEMENT AREA | 11. OUTDOOR PLAYPARK |
| 6. WORKSHOP & QUALITY CONTROL | |

GROUND FLOOR

1: 200

NORTH



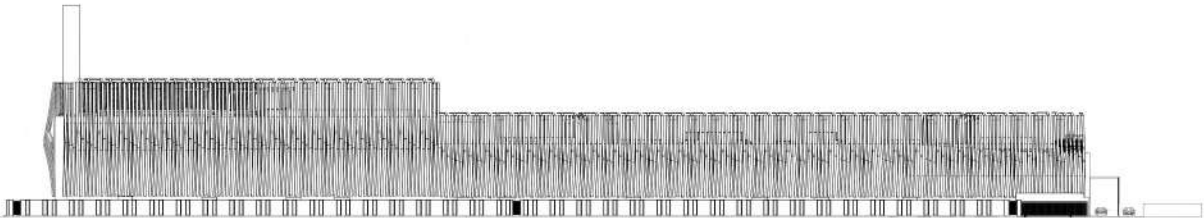
- LEGENDS:
- | | |
|--------------|------------------------|
| 1. OFFICE | 4. CONFERENCE ROOM |
| 2. SHOWROOM | 5. OUTDOOR EATING AREA |
| 3. FOODCOURT | 6. INDOOR EATING AREA |

FIRST FLOOR

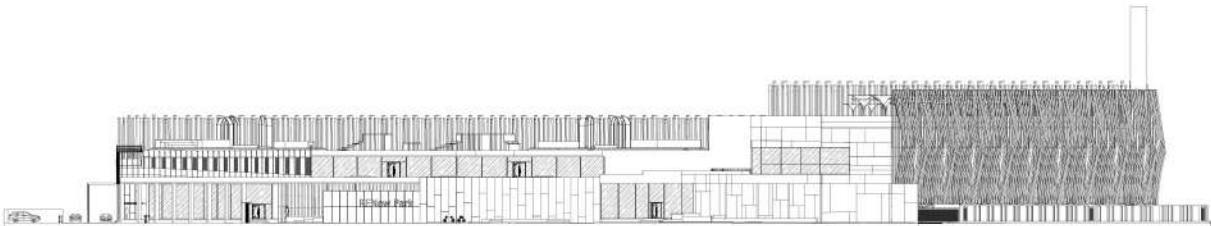
1: 300

NORTH

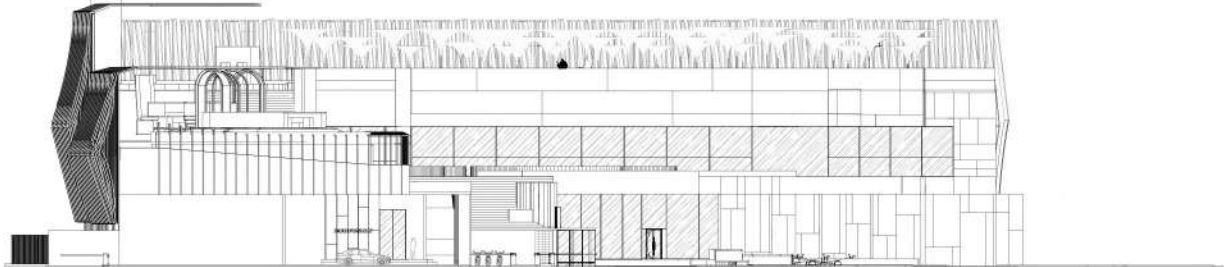
ELEVATION



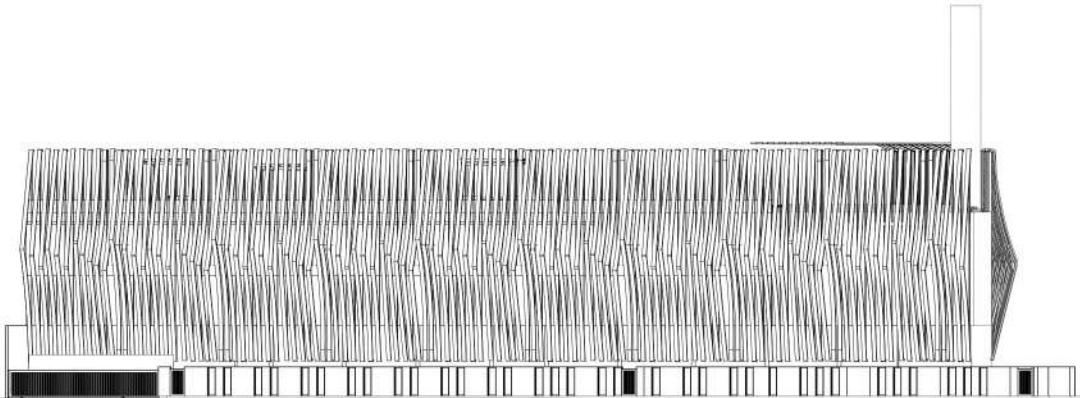
FRONT
ELEVATION
1: 200



BACK
ELEVATION
1: 200



RIGHT
ELEVATION
1: 200

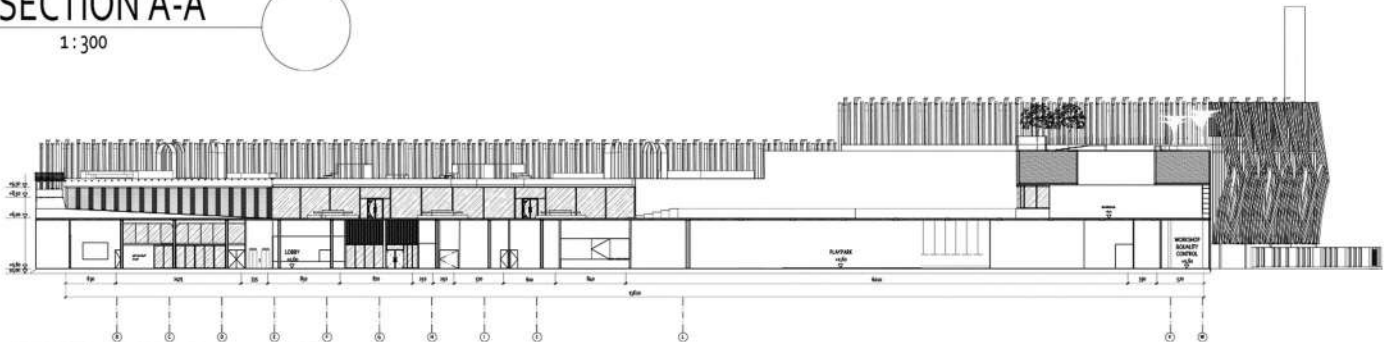


LEFT
ELEVATION
1: 200

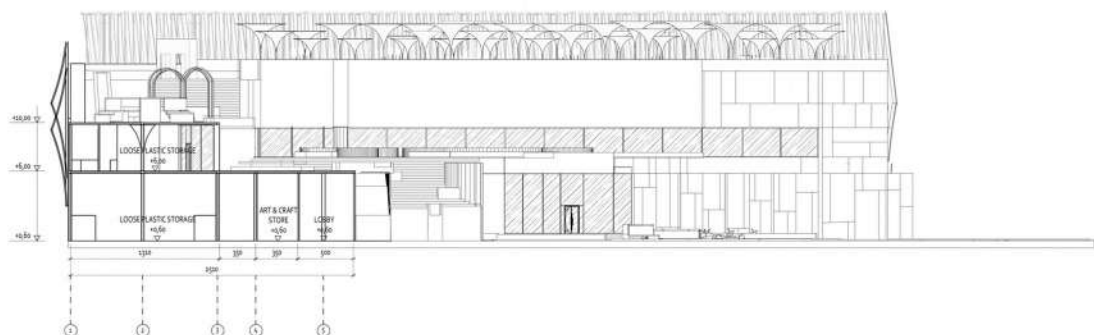


[illegible]

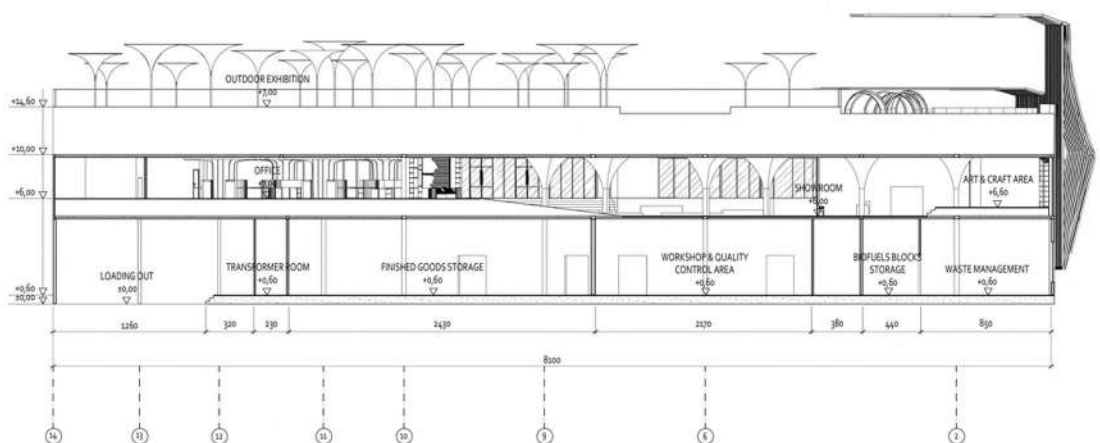
1:300



1:300



1:200



1:200



EXTERIOR & INTERIOR





MICHAEL CARLO TATANG
NIM: 315190037
STUDIO PERANCANGAN ARSITEKTUR 8.39
PROGRAM STUDI SARJANA ARSITEKTUR