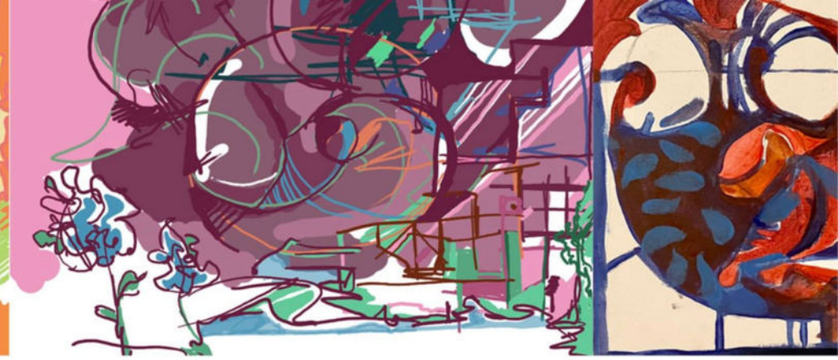
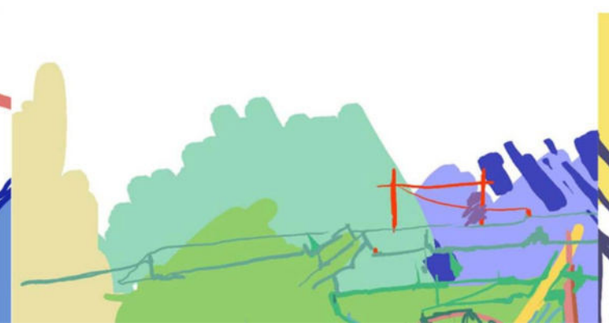
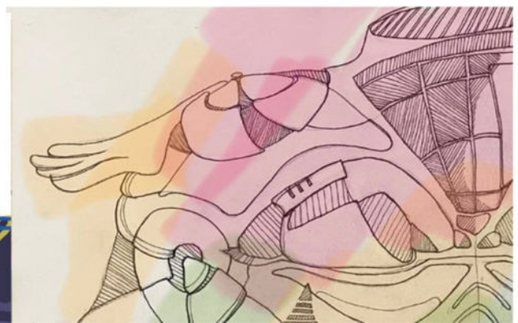




PORTFOLIO KAYLA CHEYANNE MANUEL

202311459



CONTENTS

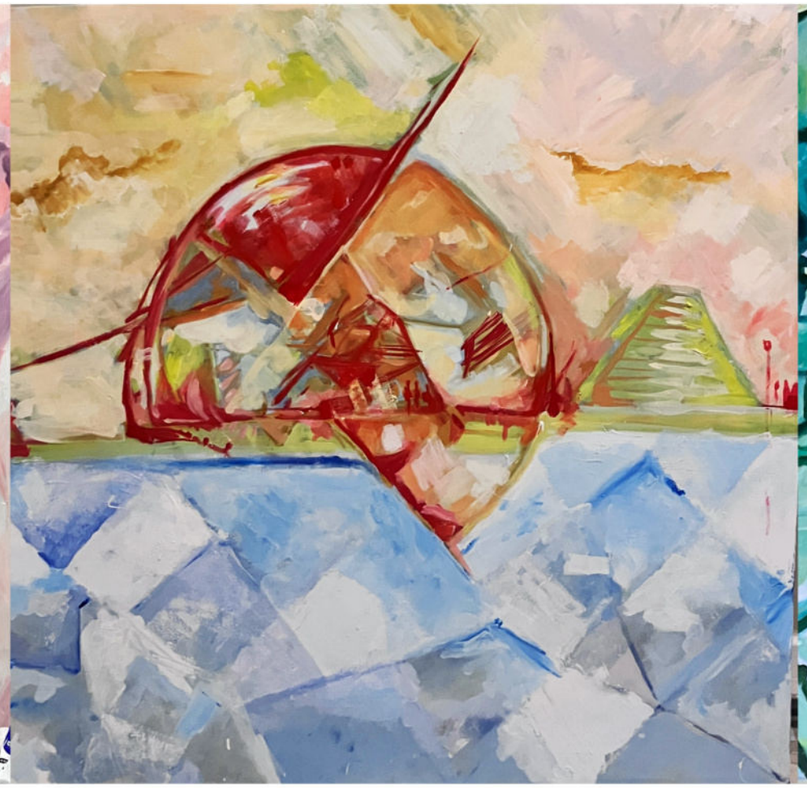
ABOUT ME

I am 32 year old Senior Architectural Technologist (international post-graduate qualification) living in Gauteng, South Africa. I lived in Amsterdam for 1.5 years and Japan for 5 years. I can speak English, Afrikaans, Japanese and can understand Dutch.

I was fortunate in 2017, to receive a MEXT scholarship from the Japanese government. I completed my masters in engineering part of the Division of Sustainable Energy and Environmental Engineering. Prior to this I received my Bachelor of Architectural Studies (BAS) degree from Witswatersrand University in Johannesburg , South Africa. I am passionate about detailing and love working in Revit - finding better and efficient ways to do things.

In my free time I love to paint, draw, make music and hang out with my nieces, because life is short.

HEAVEN & EARTH
for myself



PRIMARY
Free commision for my mom

GREEN MEANS LIFE
Free commision for my step mom

MASTERS IN JAPAN

Masters Thesis Synopsis
BIM-based evacuation system

Problem:
Current 2D placques are not sufficient for evacuation instruction.

Solution:
Customized evacuation instruction from user-specific data to modified head orientation tracking earphones using my labmates as case studies to test the protype application on their phones while blind-folded. Because the light-loads (furniture) and permanent loads (doors, walls, floors etc.) could be modelled in BIM this gave the routing application more information, allowing users to navigate around such elements.

Motivation:
During a fire emergency smoke and crowds can effects egress-seekers ability to see fire signage and their relative escape path. Fire signage is easily occluded by crowds and smoke and intercom instruction is in a single language directed at everyone in the building.

The proposed BIM-based system provides user-specific navigation instruction by sending voice commands to earphones.

Point cloud data company Part time job during masters at
https://kumonos.co.jp/global/en/

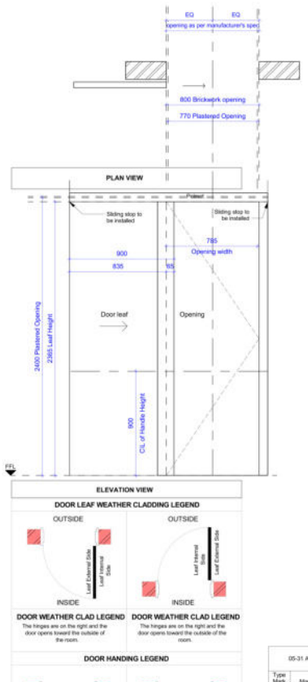
ELLIPSE

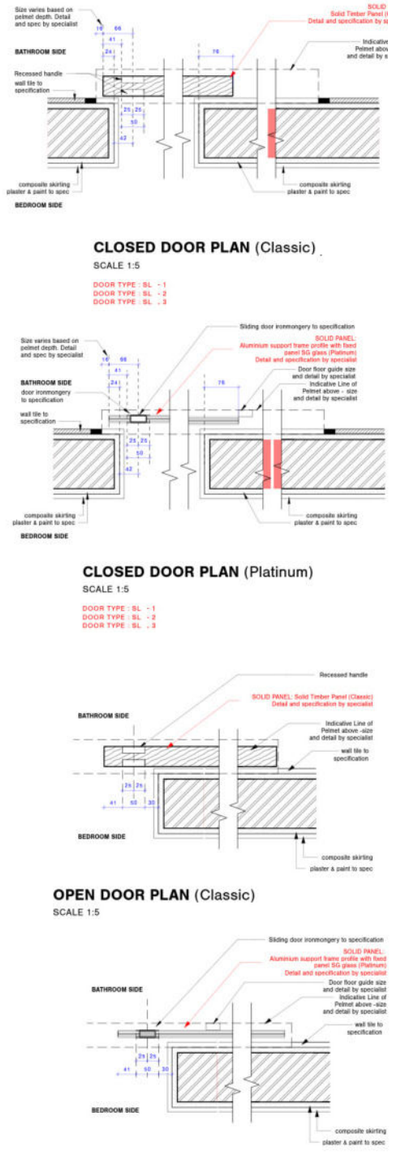
HIGH-RISE RESIDENTIAL

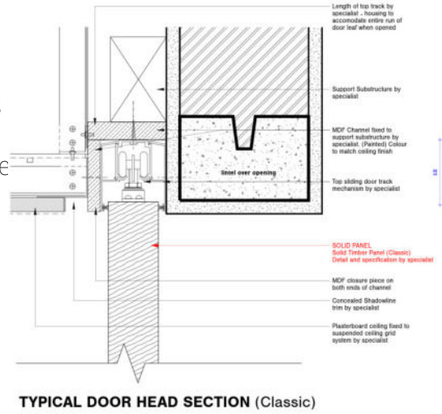
LOCATION MIDRAND, SOUTH AFRICA
AREA SQM 1800 sqm (1 Tower)
TYPOLOGY HIGH-RISE RESIDENTIAL
(worked on 1 Tower Galileo)

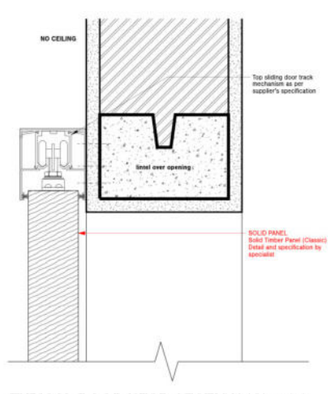
Currently working on this project and snagging for OneRosebank in a team of 2 or 3 colleagues to develop drawings for construction as and when needed. Dealing with RFIs, room data sheets, schedules, road-markings, signage and joinery packages

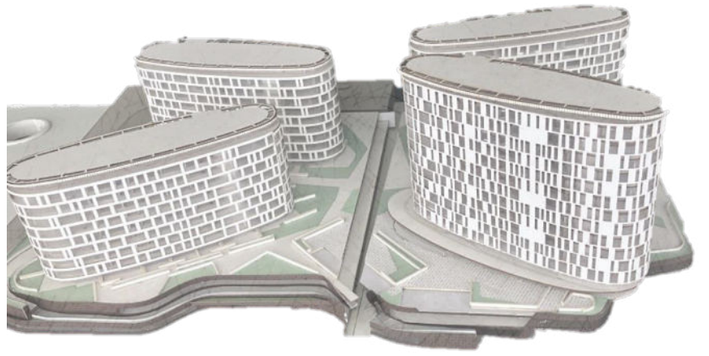
If I can spend my days detailing I would be the happiest person alive.



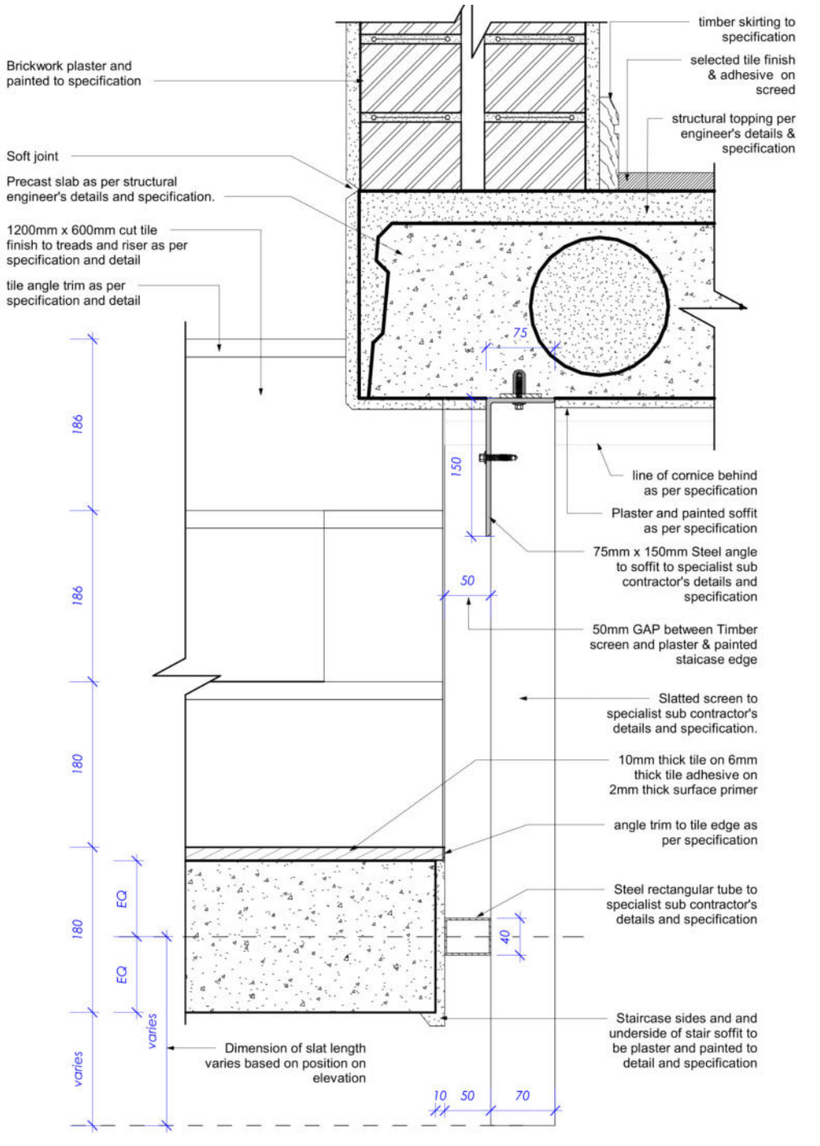








*I did not make this model



STAIR TREAD TO BALUSTRADE SCREEN DETAIL
SCALE 1:5

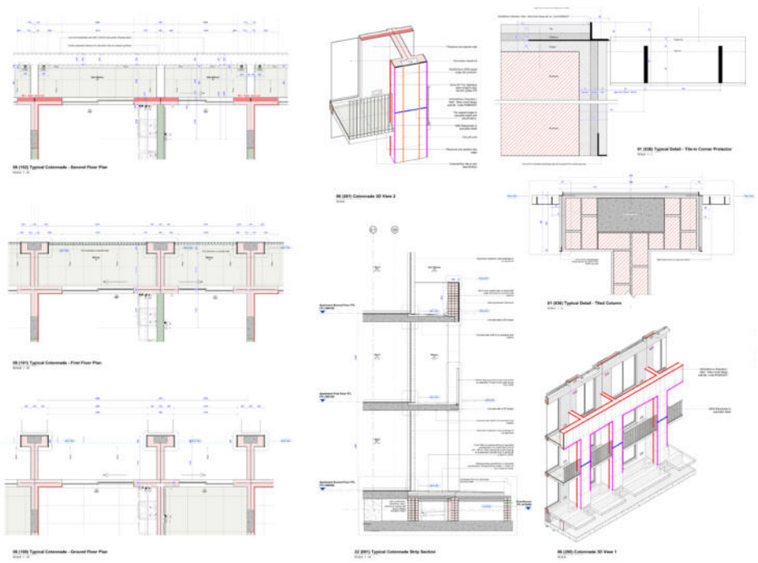
ONE ROSEBANK

HIGH-RISE RESIDENTIAL

LOCATION ROSEBANK, SOUTH AFRICA
AREA SQM 12000 sqm
TYPOLOGY
HIGH-RISE RESIDENTIAL APARTMENT
(snagging mostly)

Snagging for OneRosebank with 1 other colleague to ensure quality and that construction drawings made are followed. SnagR app is used for snagging and desnagging purposes.

Drawing up of a few minor details when an RFI is required or a resubmission was required.



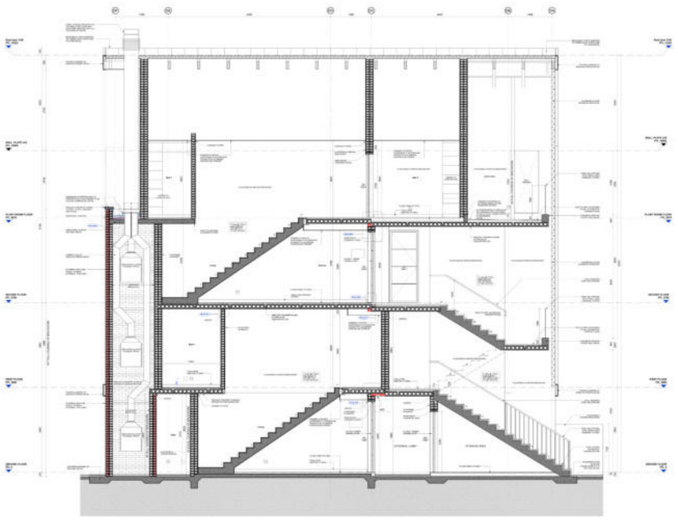
BROOKFIELD ROYAL JHB

LUXURY RESIDENTIAL

LOCATION ROSEBANK, SOUTH AFRICA
AREA SQM 38 - 154 sqm each
TYPOLOGY
LUXURY RESIDENTIAL APARTMENT

Drawing up full set of plans, sections and elevations for two model types C31-C33. Drawings included floor type finishes, wall types, door tags, brickwork dimensions, grids, levels and annotations.

The First Luxury Residential Development at Royal situated within the precincts of the Royal Johannesburg Golf Club.



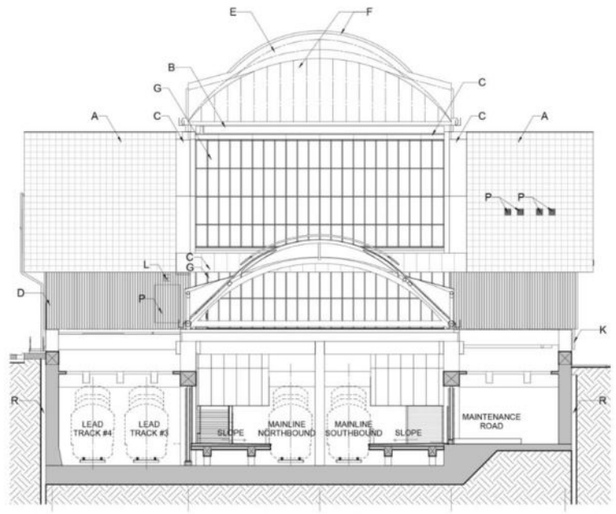
MANILA

SUBWAY STATION

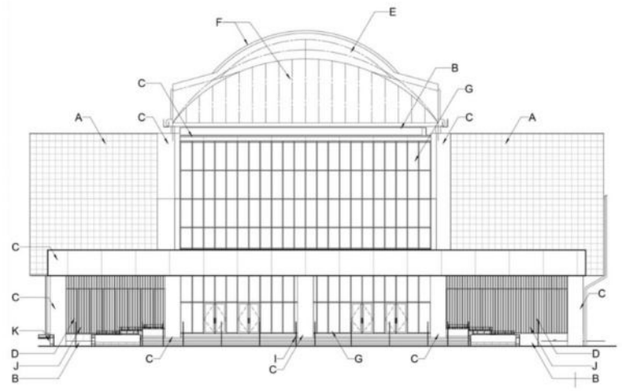
LOCATION MANILA (YASUI TOKYO OFFICE)
AREA SQM 520sqm
TYPOLOGY PARTIALLY SUBMERGED SUBWAY STATION
LOD 300-500

The project team consisted of myself and one other tasked to prepare 194 drawings for construction submission for the train station in Manila, Philippines.

Tasked to produce construction drawings, attend meetings in Japanese and implement changes discussed back into the construction drawings we were producing. Communication-wise the trick was to listen out for keywords. Architecture being a predominantly visual medium made this understanding of Architecture in Japanese much easier. Assimilation also made the learning process a challenge but also my growth exponentially.



SECTIONAL ELEVATION SCALE 1:50

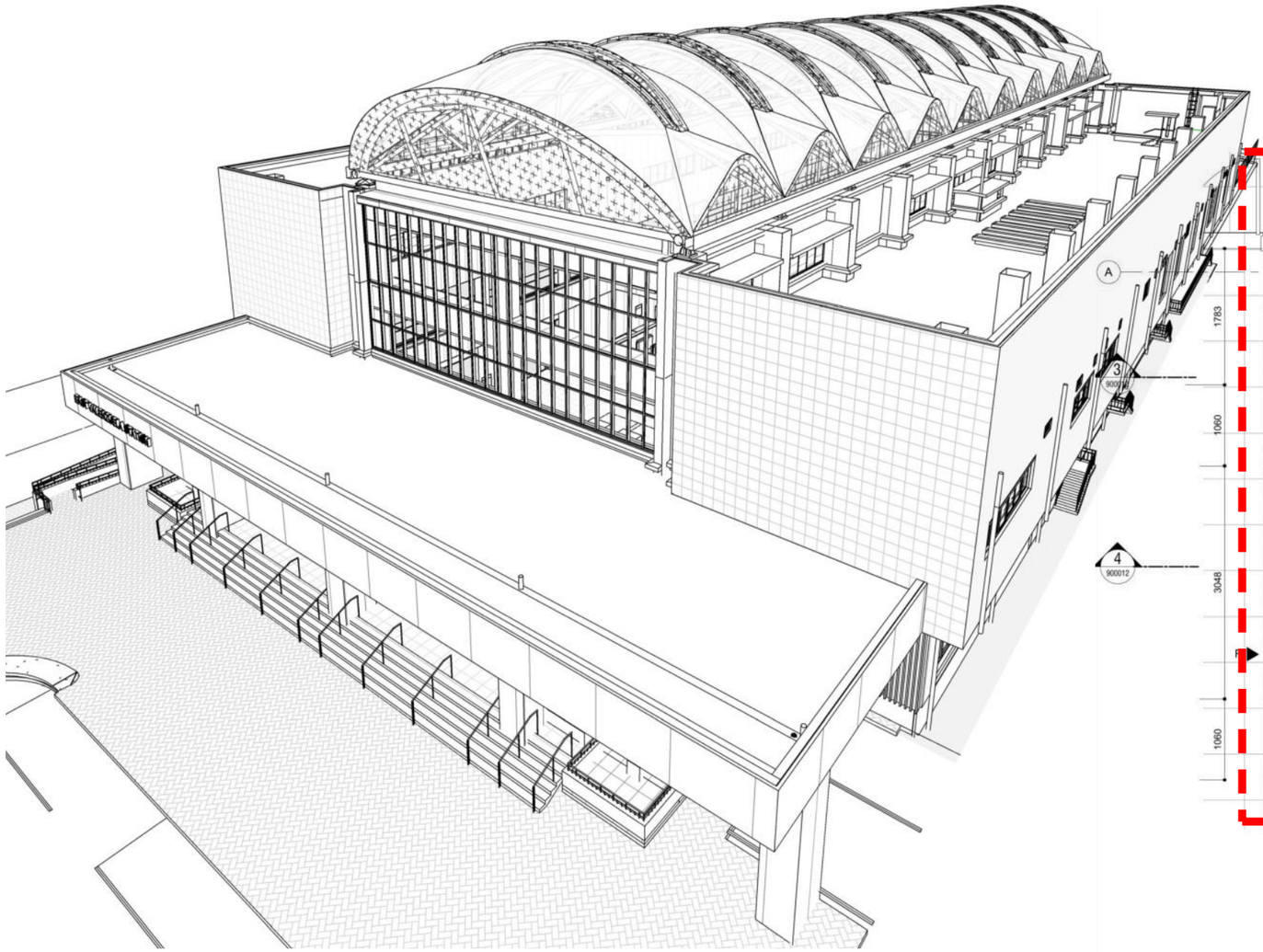


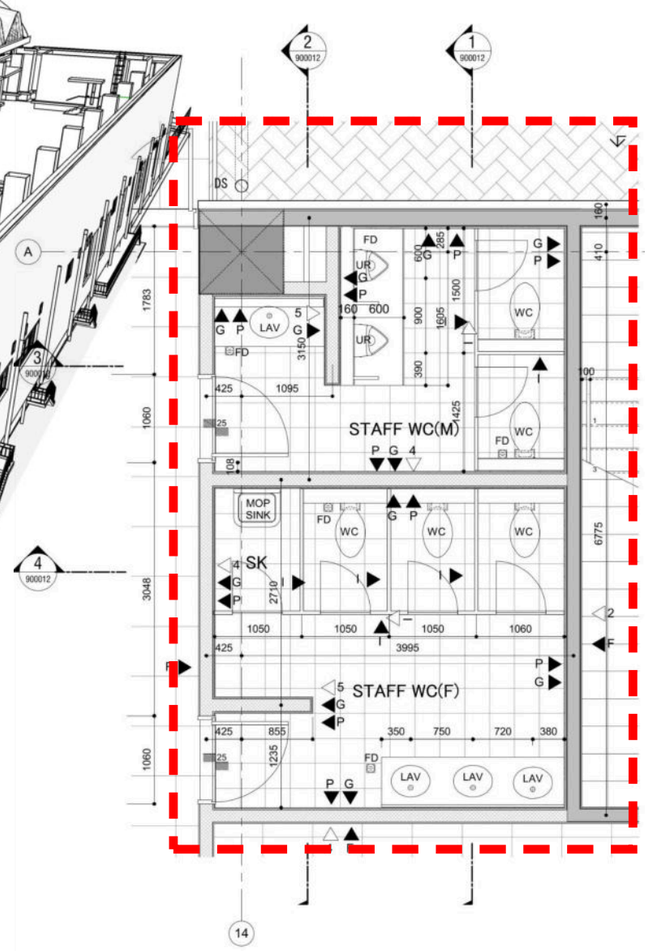
SOUTH ELEVATION SCALE 1:50

CORRIDOR 5
MDF1
MDF2
MDF3
MDF4
MEETING ROOM
STATION OFFICE
STATION STORE 1
STATION STORE 2
EPS 3
EPS 4
EV1
STAFF WC(M)
STAFF WC(F)
SK
STAIRCASE 6
CORRIDOR 1
ESC1
LOW WALL 1.1m HT.
CASH AND TICKET HANDLING ROOM
TICKET SALE ROOM
SHUTTER
STAIRCASE1
LOW WALL H=1400
CUSTOMER SERVICE
PAID AREA
▽34. 80
SIGNAGE & LIGHTING POST TO MANUFACTURERS SPECIFICATION
FL: -355
FHR
DS

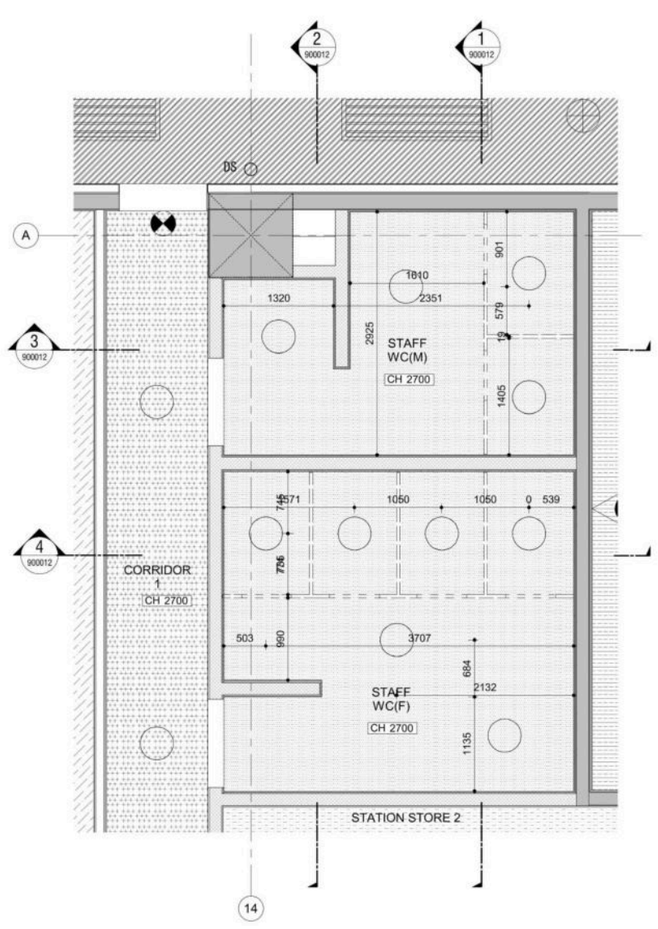
GROUND FLOOR - KEY PLAN

PROJECT: METRO MANILA SUBWAY PROJECT PHASE 1	PACKAGE CP101		
TITLE: EAST VALENZUELA STATION ARCHITECTURE GROUND FLOOR DETAILED PLAN 2	PROJECTION: First Angle	STAGE: ☐ Initial Design ■ Technical Design ☐ Construction Design ☐ As-Built	DATE: 20/AUG/2021 SCALE: 1:50 INTENDED FORMAT: A1

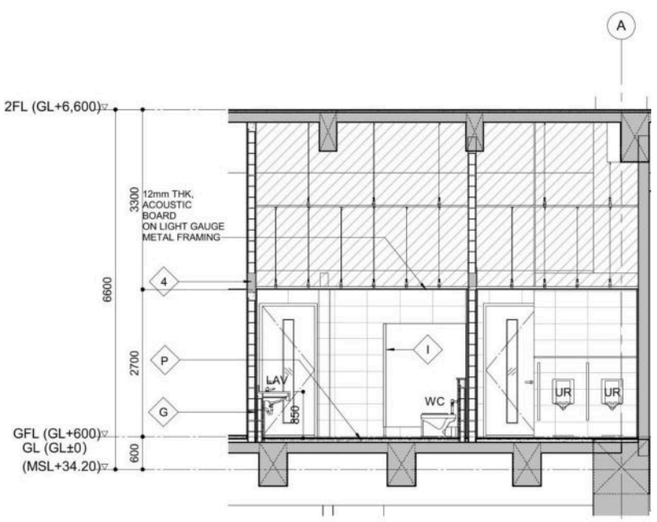




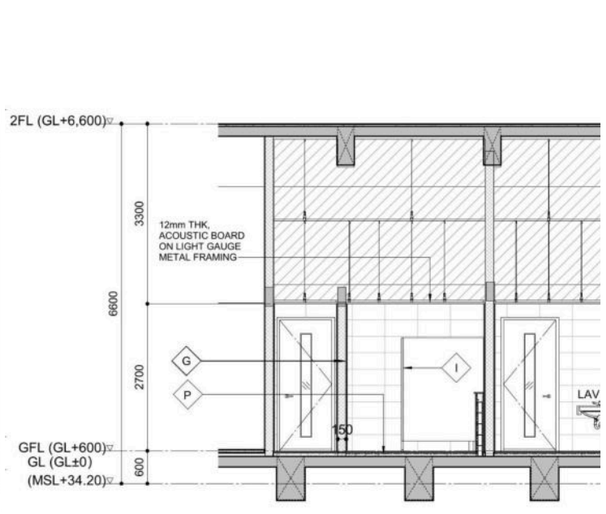
1 | STAFF WC PLAN - GFL
900011 | Scale 1 : 30



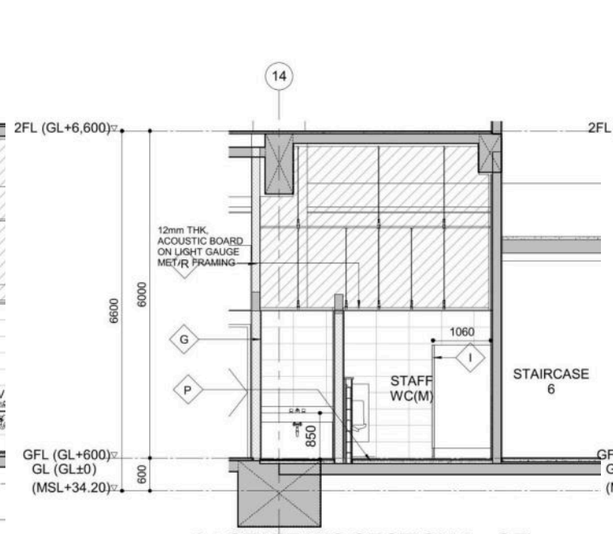
2 | STAFF WC CEILING PLAN - GFL
900011 | Scale 1 : 30



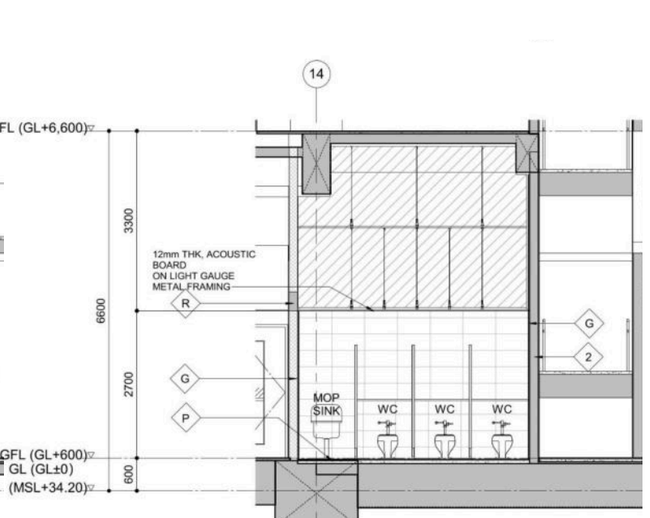
1 | STAFF WC SECTION 1 - GFL
900012 | Scale 1 : 50



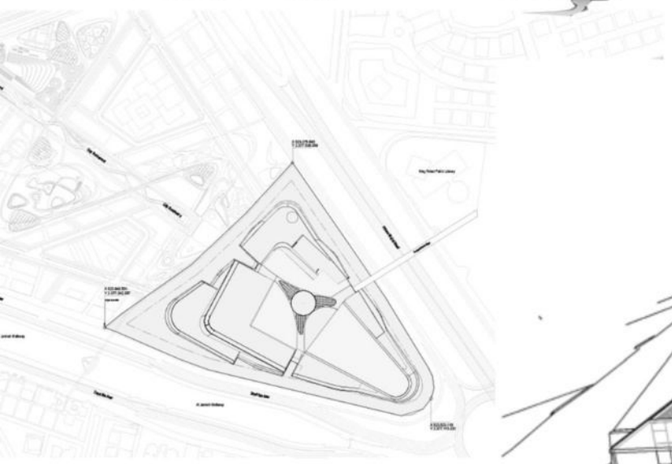
2 | STAFF WC SECTION 2 - GFL
900012 | Scale 1 : 50



3 | STAFF WC SECTION 3 - GFL
900012 | Scale 1 : 50



4 | STAFF WC SECTION 4 - GFL
900012 | Scale 1 : 50

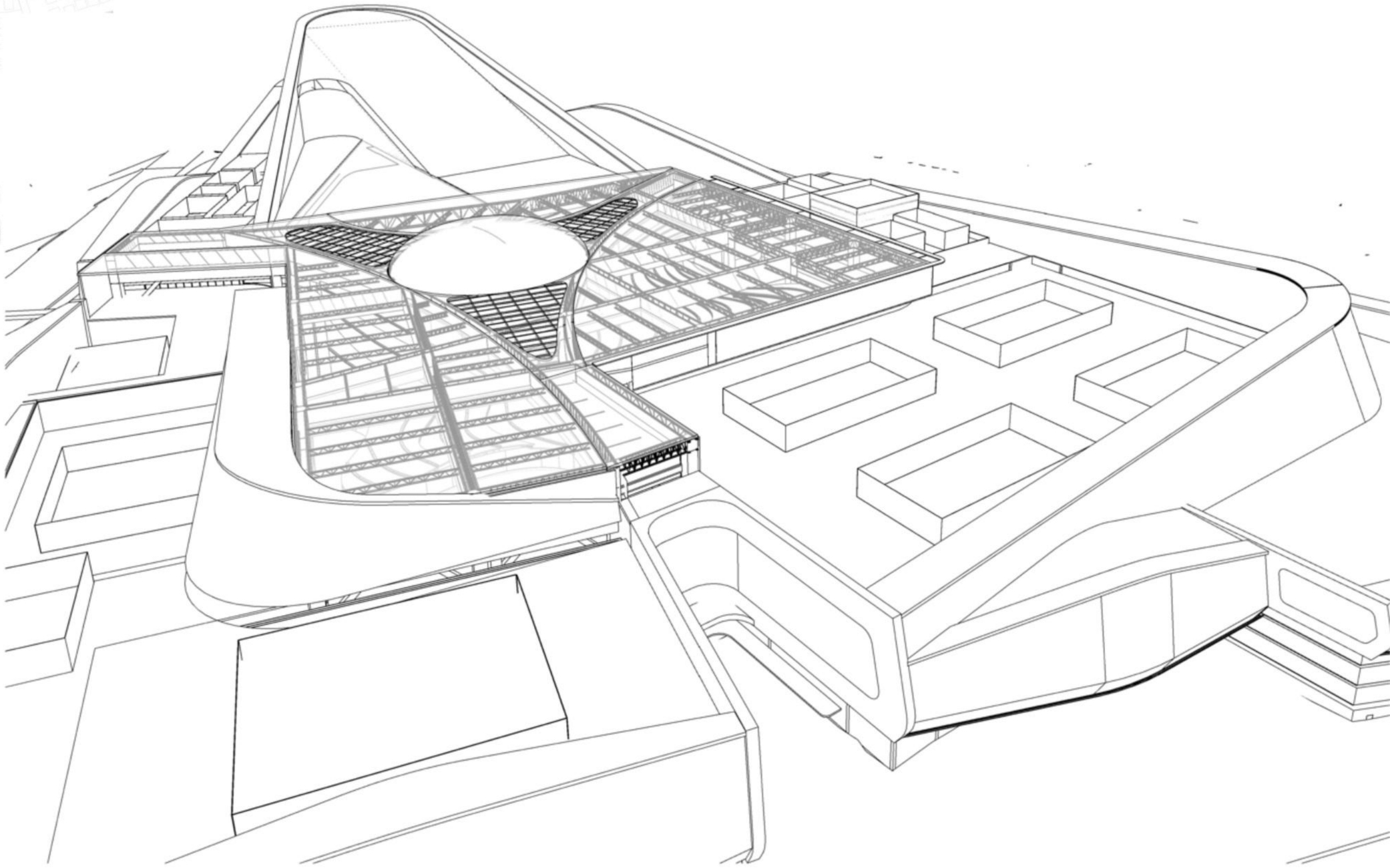


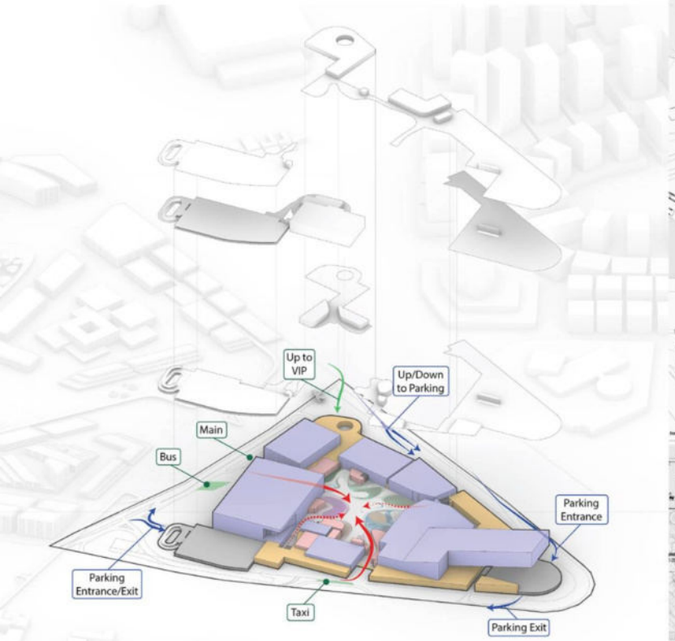
ENTERTAINMENT COMPLEX

LOCATION RIYADH SAUDI ARABIA (AMSTERDAM OFFICE)
AREA SQM 950 000 sqm
TYPOLOGY ENTERTAINMENT COMPLEX
LOD 200-300

The program included a ski slope, roller coasters and various other ammendities such as bouldering, a cinema and go-kart track.

The technical documentationfor the client submission included plans, sections, elevations, tile layouts, reflected ceiling plans and schedules.





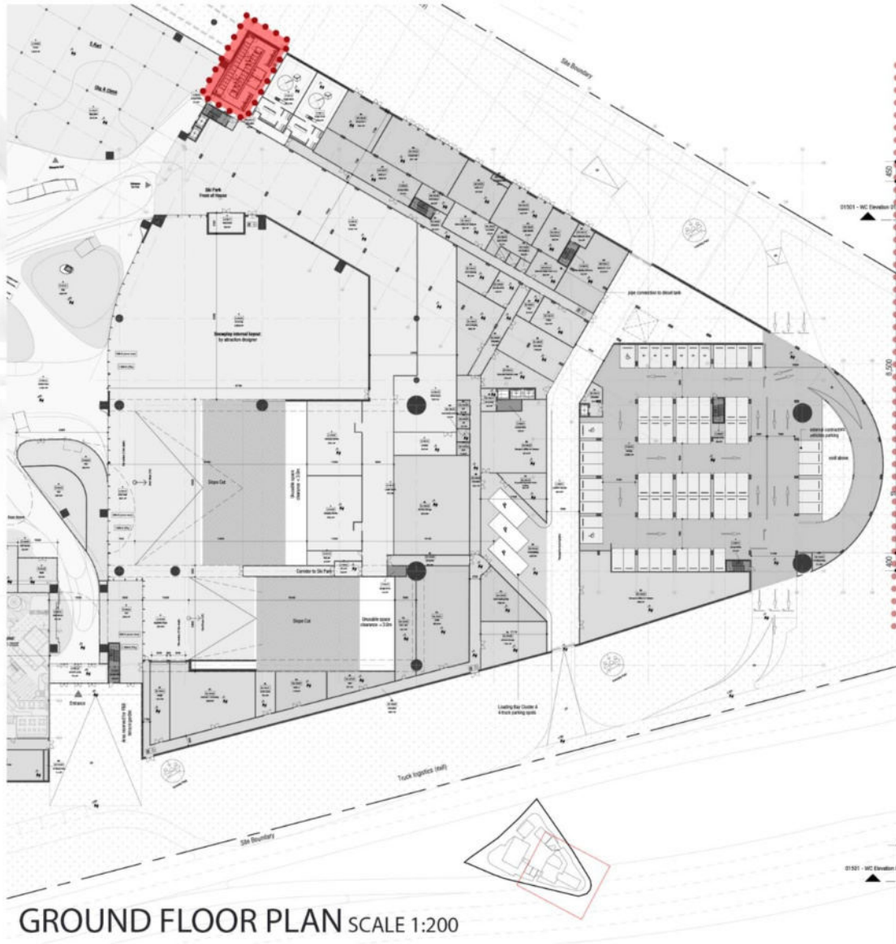
ENTERTAINMENT COMPLEX

MY ROLE IN THE TEAM

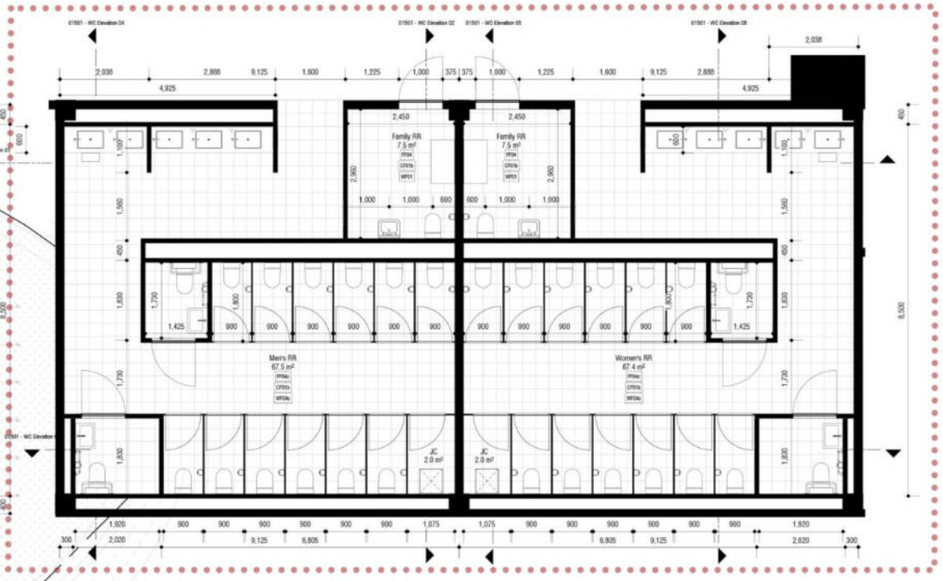
-BUILDING THE REVIT MODEL

-CREATING TECHNICAL DRAWINGS FOR CONSTRUCTION

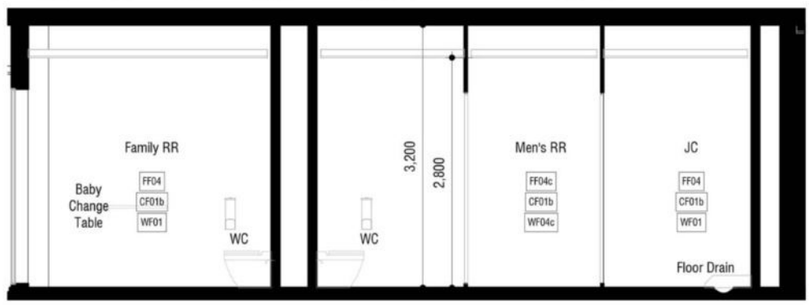
-PLANS, SECTIONS, ELEVATIONS, SCHEDULES,, ABLUTION, CEILING AND TILE LAYOUTS



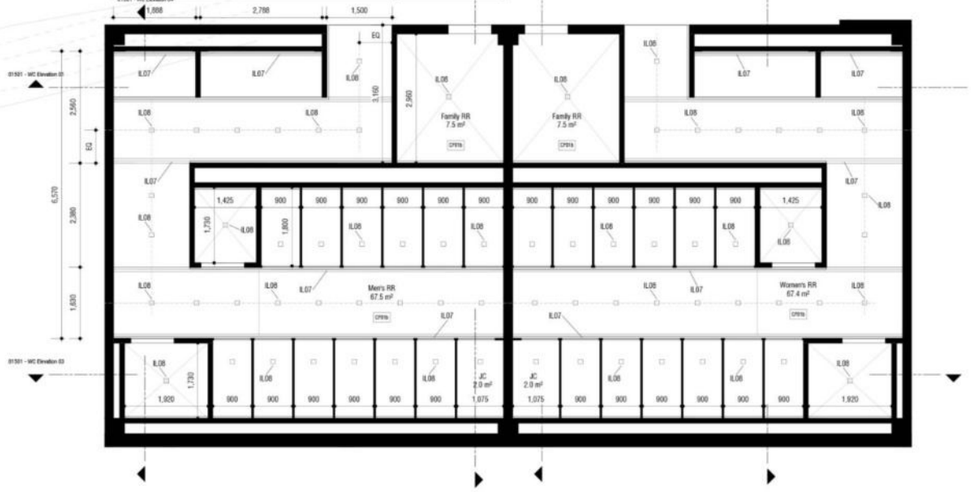
GROUND FLOOR PLAN SCALE 1:200



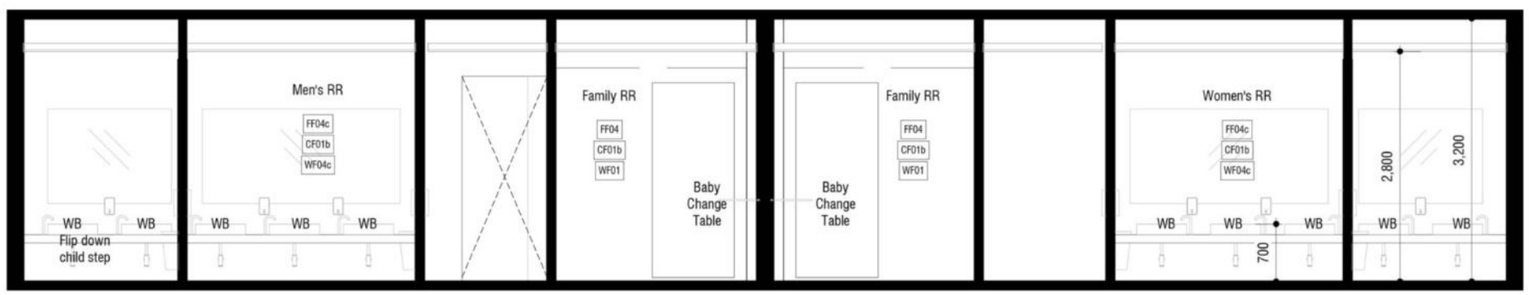
ABLUTION PLAN SCALE 1:50



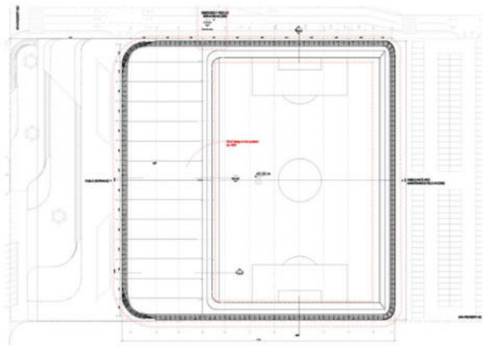
ABLUTION ELEVATION 1 SCALE 1:50



ABLUTION CEILNG PLAN SCALE 1:50



ABLUTION ELEVATION 2 SCALE 1:50



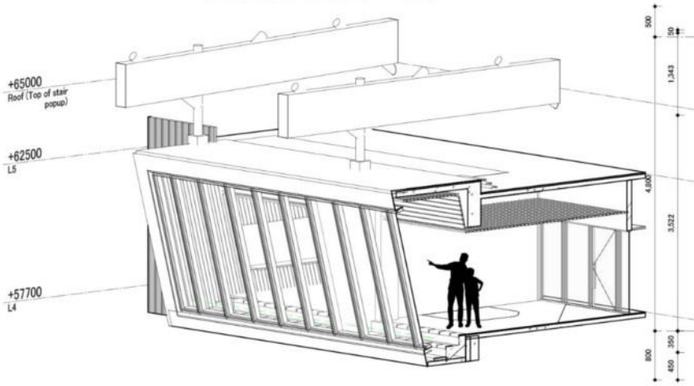
KNFC

SOCCER STADIUM

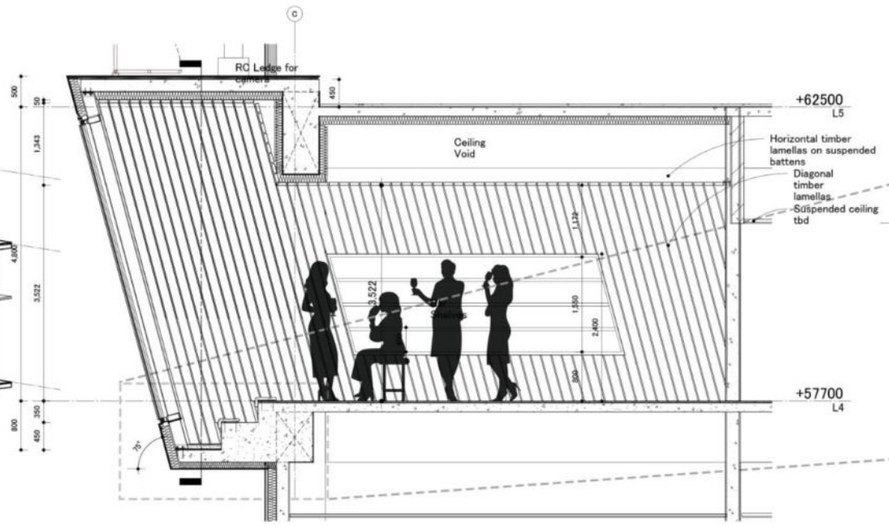
LOCATION SEOUL, SOUTH KOREA (AMSTERDAM OFFICE)
AREA SQM 450 427 sqm
TYPOLOGY STADIUM
LOD 500

MY ROLE IN THE TEAM

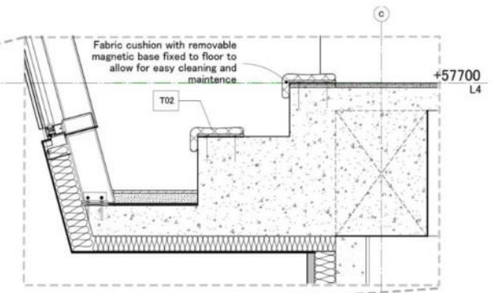
-REDUCING REVIT MODEL HEIGHT
- CHECK NEW CAMERA HEIGHT CAPTURES ENTIRE FIELD
- ADJUST MODEL ELEMENTS AND 2D DETAIL OVERLAY ACCORDINGLY
- DETAILING PLANS, SECTIONS, AND ELEVATIONS FOR RESUBMISSION



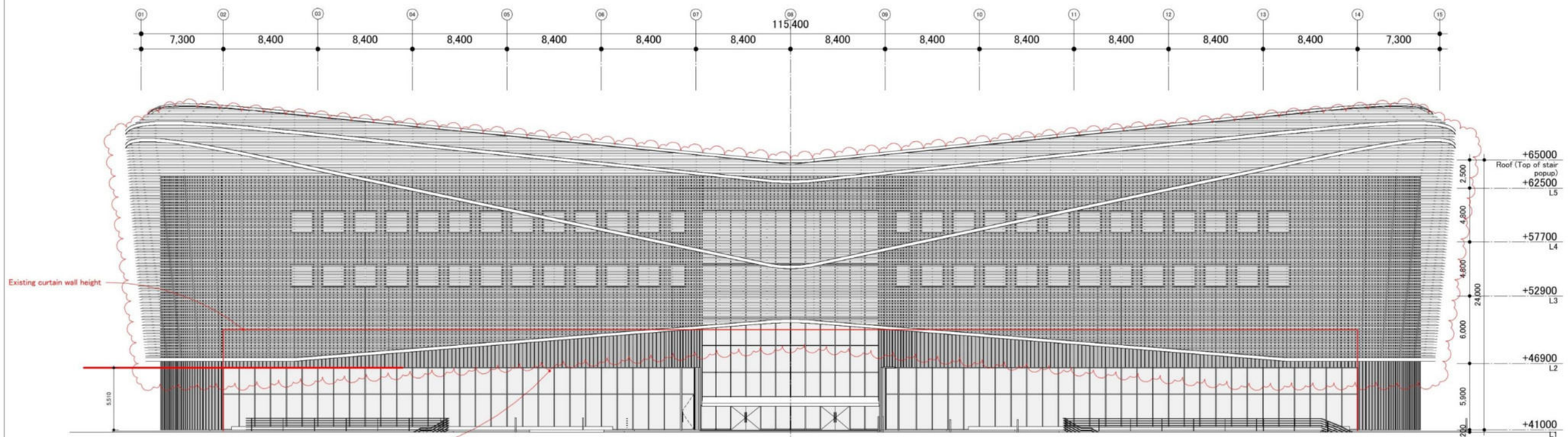
3D VIEW
NTS



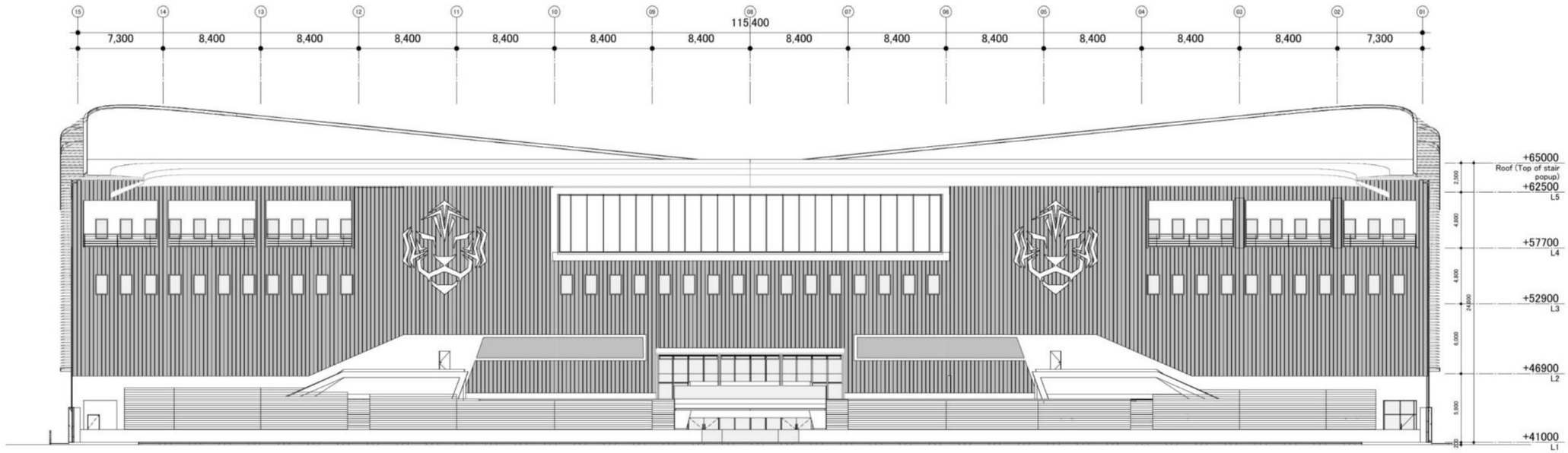
VIP VERTICAL SECTION
SCALE 1:50



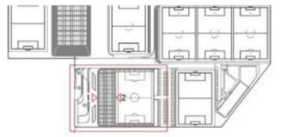
VIP SECTION AT SLAB EDGE
SCALE 1:20



1 | West Elevation
1 : 200



2 | Internal East Elevation
1 : 200



0 10 20 m

project name
Korean National Football Center

client
Korean Football Association
KFA House, Gyeonghuigungnong-gil 46, Jongno-Gu, Seoul
03175
T +82 (0)2 2002 0707
F +82 (0)2 2002 0611

KFA

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architects
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P.O. Box 75381
1070 AJ Amsterdam
The Netherlands
T +31 (0)20 570 20 40
F +31 (0)20 570 20 41
info@unstudio.com
www.unstudio.com

project name
Korean National Football Center

location
Cheonan, South Korea

project no.
2020-073

phase
Phase 2 WIP

sector
Outdoor Stadium

drawing type
Elevation

format
A1: 841 x 594

status
Draft 85%

date
24/10/22

rotation
0°

scale
1 : 200

drawing code
C1-OS-3-01

title
Overview Elevations

description/disclaimer

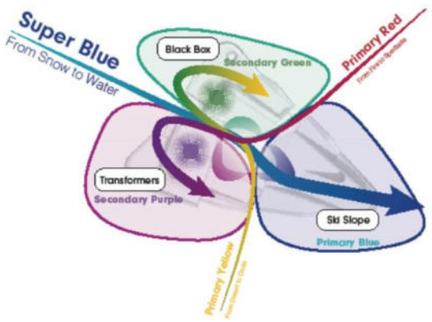
A1

SUMMARY OF WORKS AT UNSTUDIO

VISIT UNSTUDIO.COM PROJECT PAGES FOR MORE INFORMATION

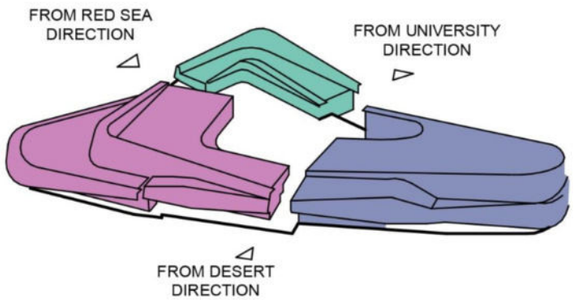
SEVEN

SAUDI ARABIA
ENTERNTAINMENT COMPLEX



SITE CONTEXT INFLUENCE ON SHAPE

PROGRAM DIVIDED INTO THREE

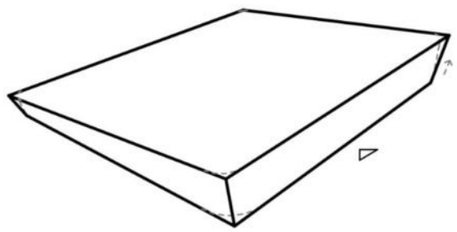


MY ROLE IN THE TEAM

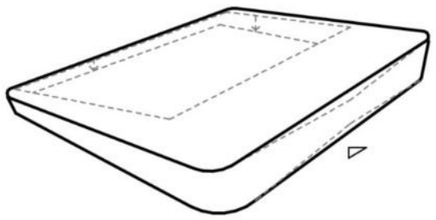
- MODELING AND FULL SET OF CONSTRUCTION DRAWINGS FOR SUBMISSION

KNFC

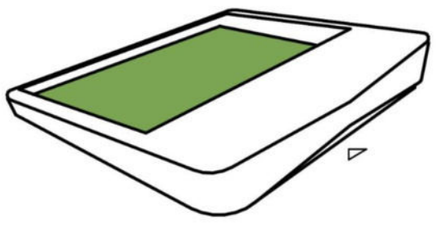
SOUTH KOREA
SOCCER STADIUM



CHAMFER EDGES + RAISE FACADE AT ENTRANCE SIDE



SYMMETRY ON EITHER SIDE OF ENTRANCE
STADIUM ONLY PARTIALLY COVERED COST-SAVING

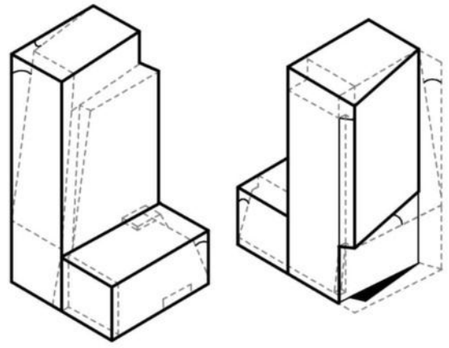


MY ROLE IN THE TEAM

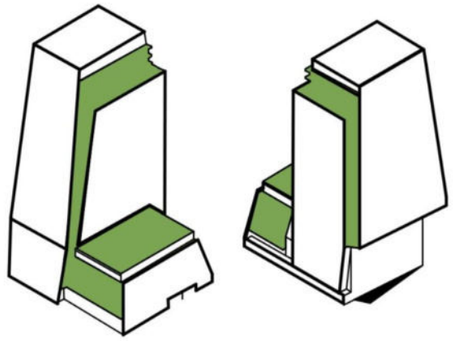
- ADJUST MODEL AND 2D DETAILING AFTER ADJUSTING HEIGHT OF THE BUILDING AND REORDERING OF PROGRAM.

NION

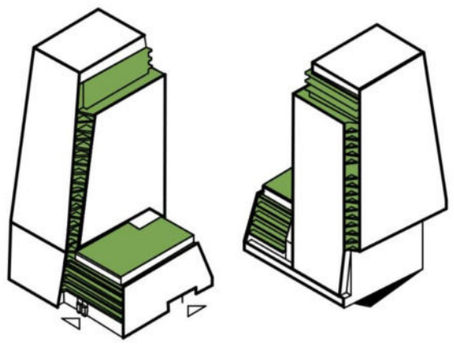
GERMANY
NEW OFFICE BUILDING



TYPICAL OFFICE BLOCKS
(START WITH RECTANGULAR FORMS)



INTRODUCING GREEN BALCONIES
(SITE CONTEXT NO GREEN)

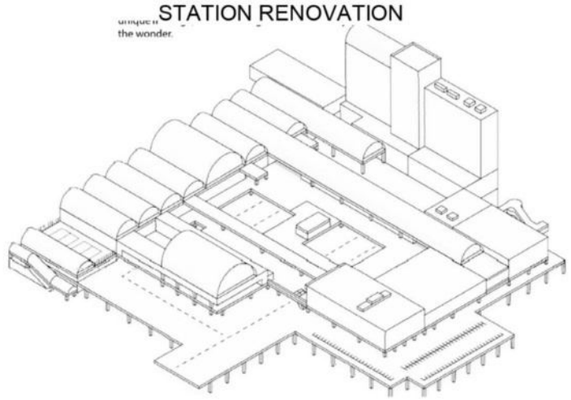


MY ROLE IN THE TEAM

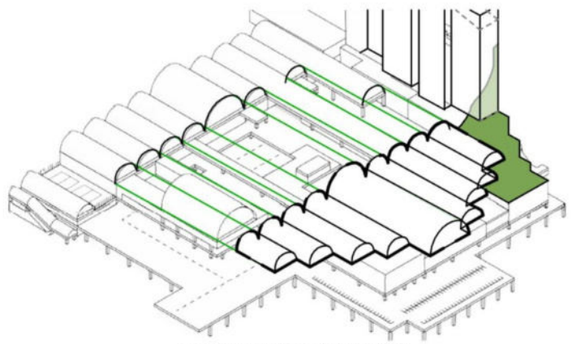
- BUILD FACADE MODEL FROM RHINO MASSING MODEL
- FACADE DETAILING COLLABORATING WITH FACADE CONSULTANTS

CHAMARTIN

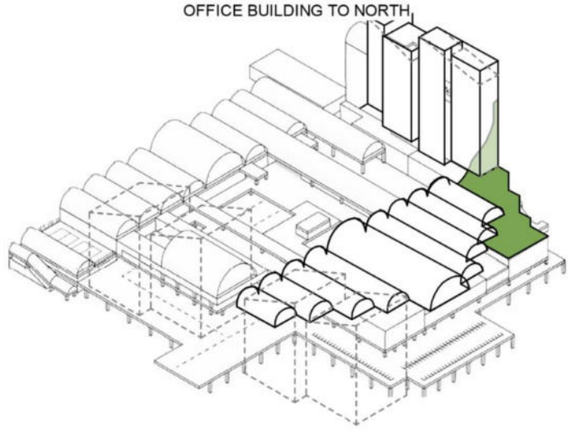
SPAIN
STATION RENOVATION



EXISTING TRAIN STATION



EXTEND DOMED ARCHWAYS
OFFICE BUILDING TO NORTH



MY ROLE IN THE TEAM

- RATIONALIZE FACADE OF OFFICE BUILDING IN REVIT MODEL FROM INITIAL RHINO SHAPE
-CO-ORDINATE OTHER COMPANIES REVIT MODEL FOR OTHER BUILDINGS ON SITE FOR MASTERPLAN.

THANK YOU FOR YOUR CONSIDERATION