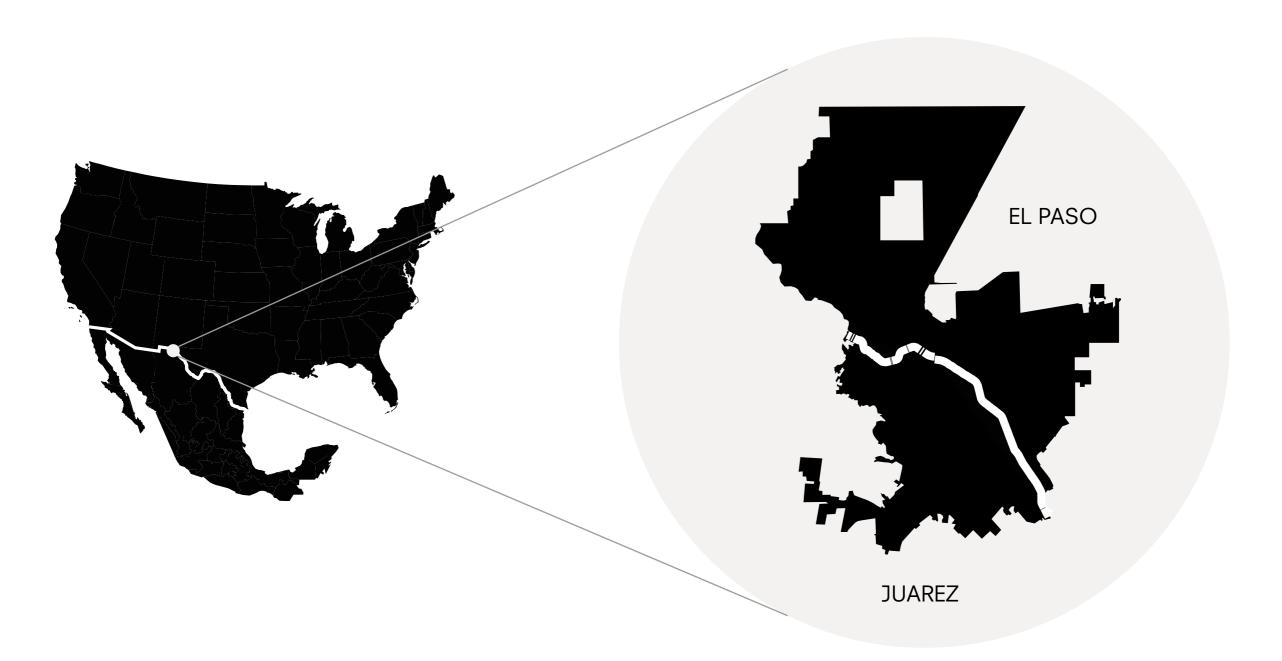
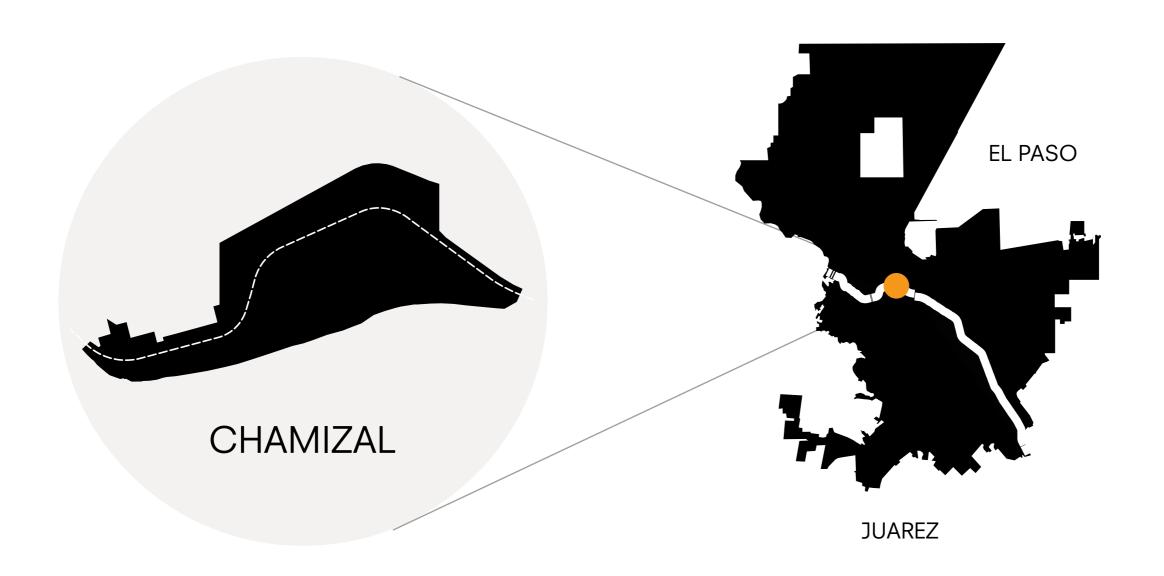




WHERE?



WHERE?











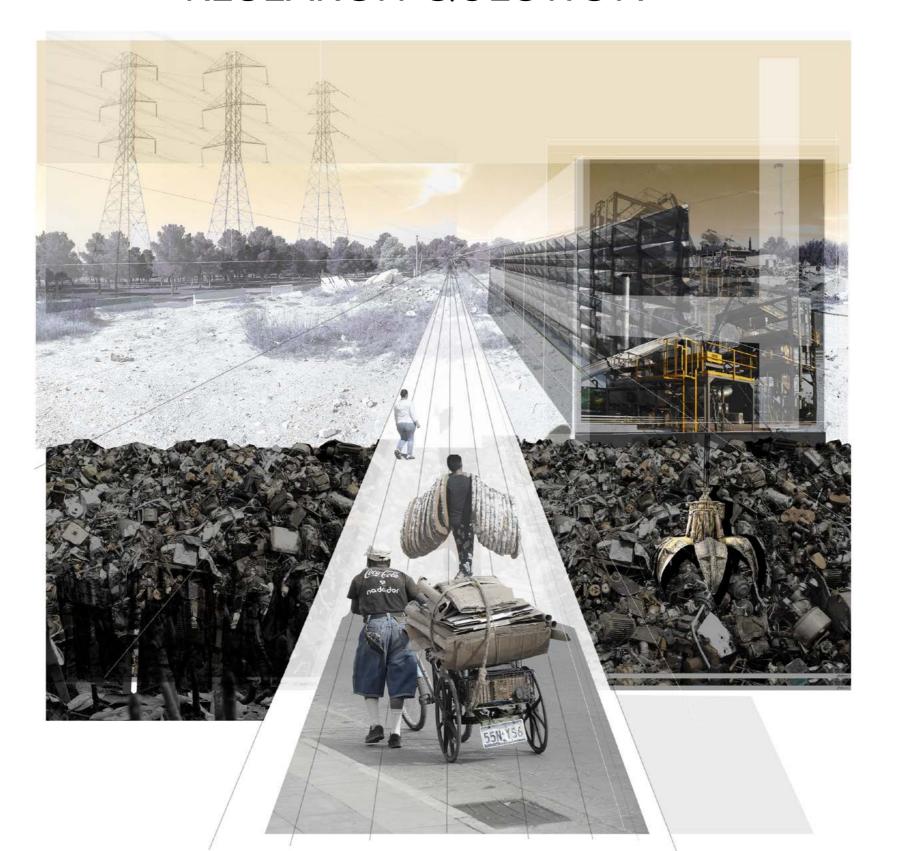








RESEARCH QUESTION



WASTE MANAGEMENT CENTER

per capita kg/day

Sandra Bugaite

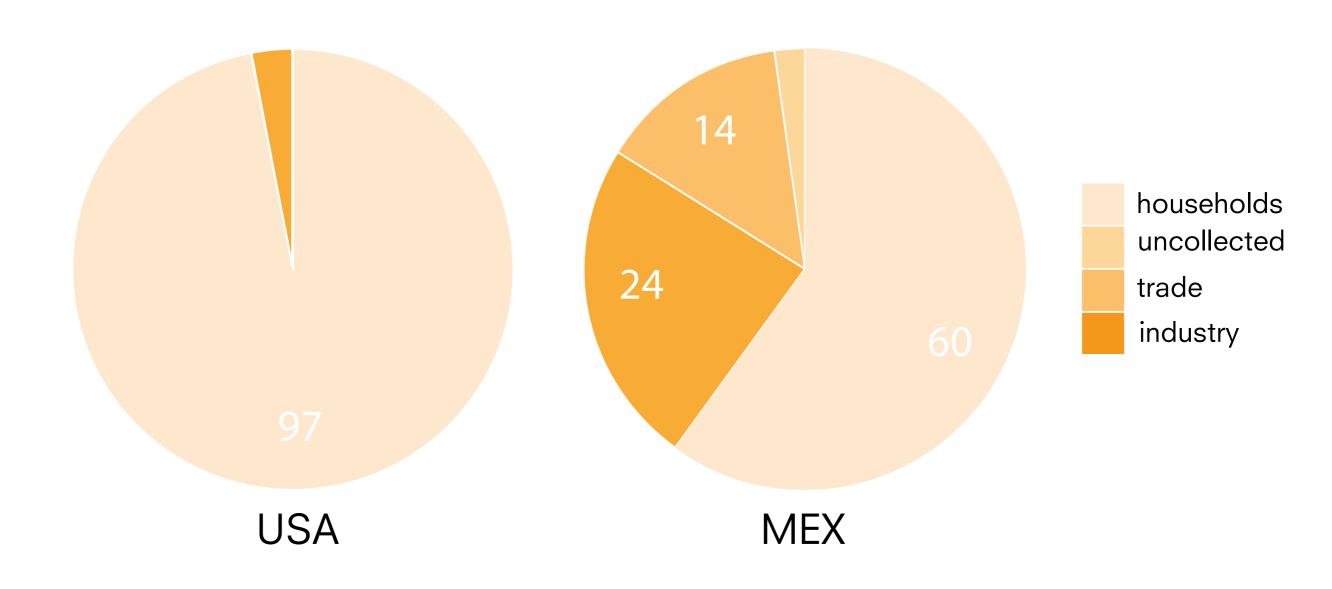
GENERATED WASTE

BORDER WASTE

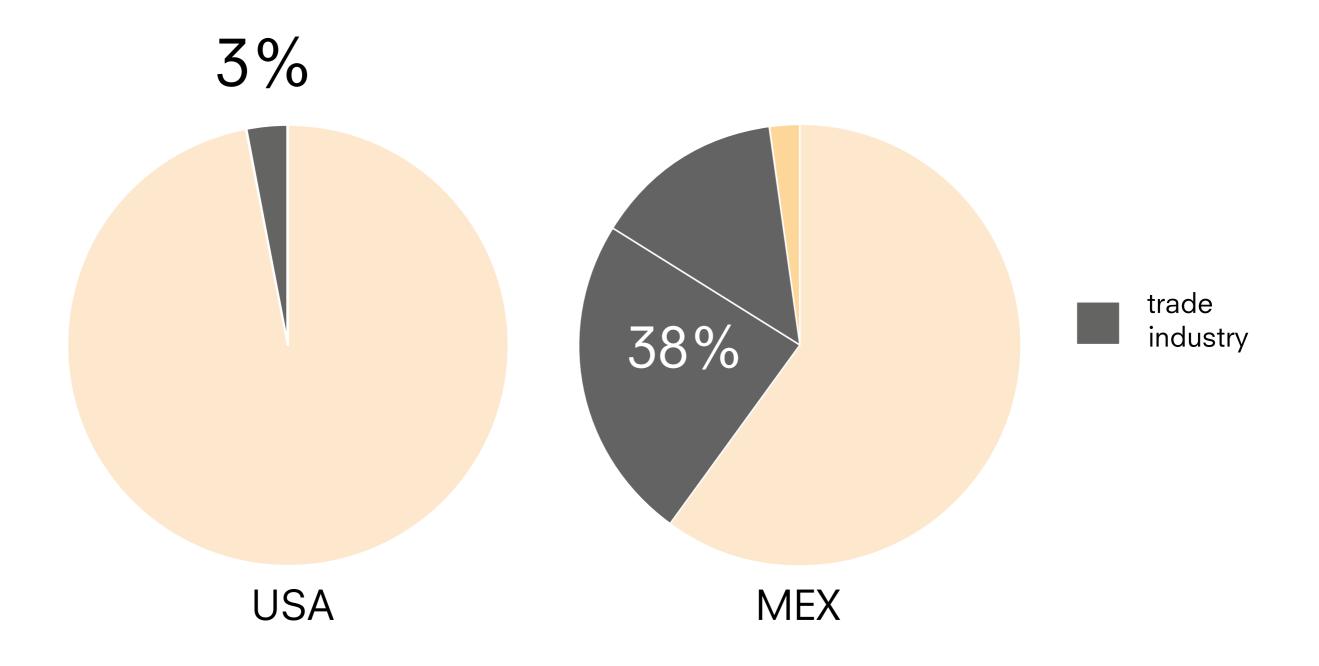




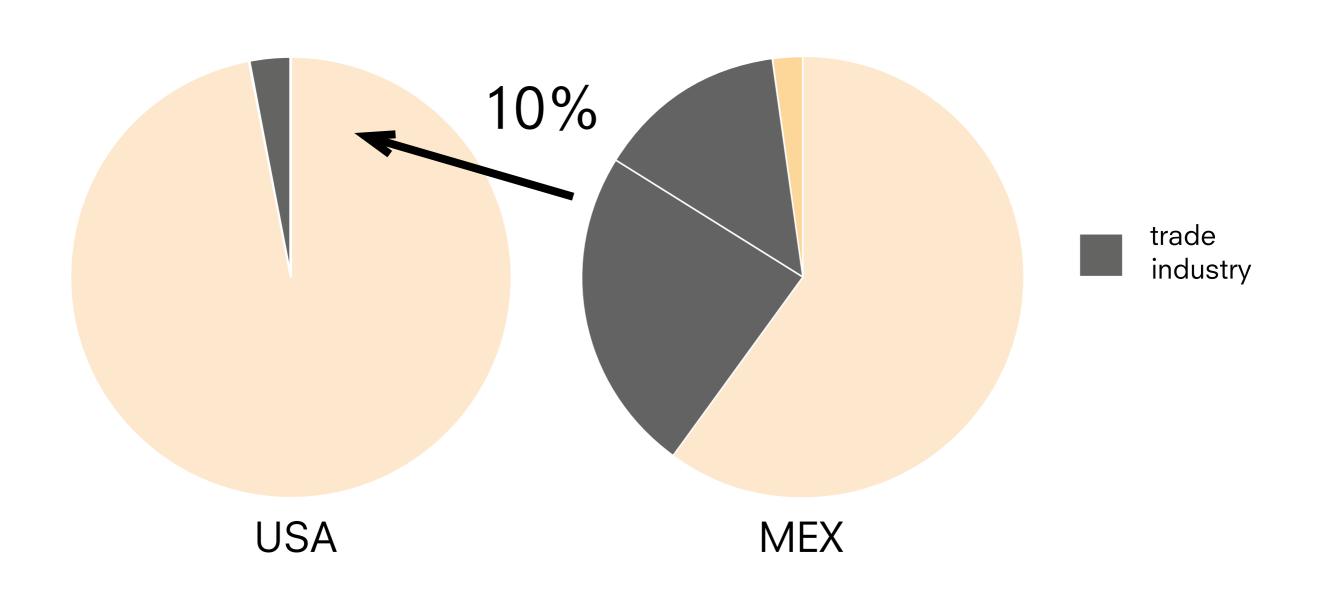
WASTE GENERATORS



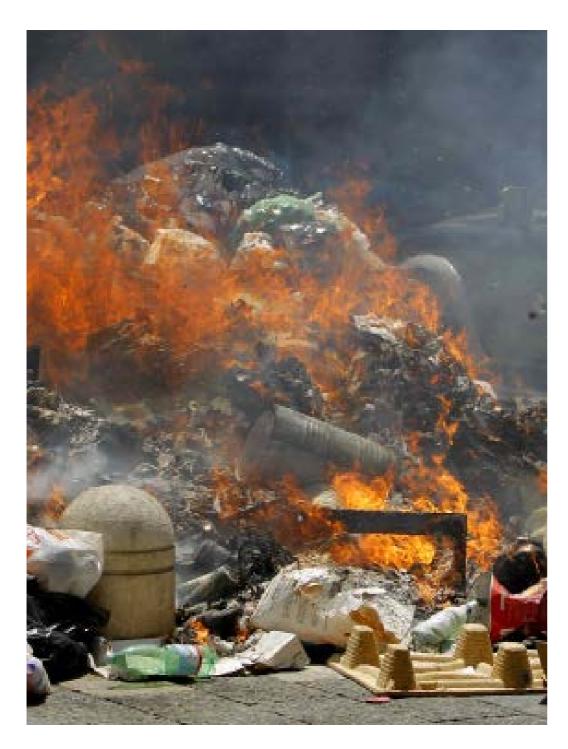
WASTE GENERATORS



WASTE GENERATORS



ILLEGAL TREATMENT

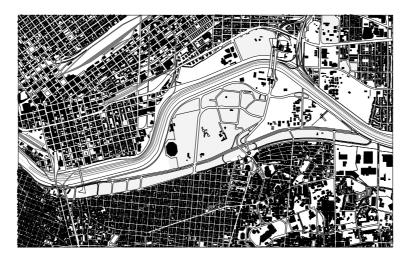




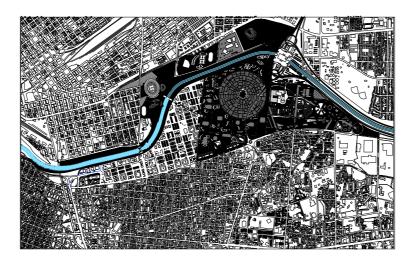


Introduce a **new united** position towards waste management in binational context; and design a waste management facility which would improve situation and increase awareness about waste issue.

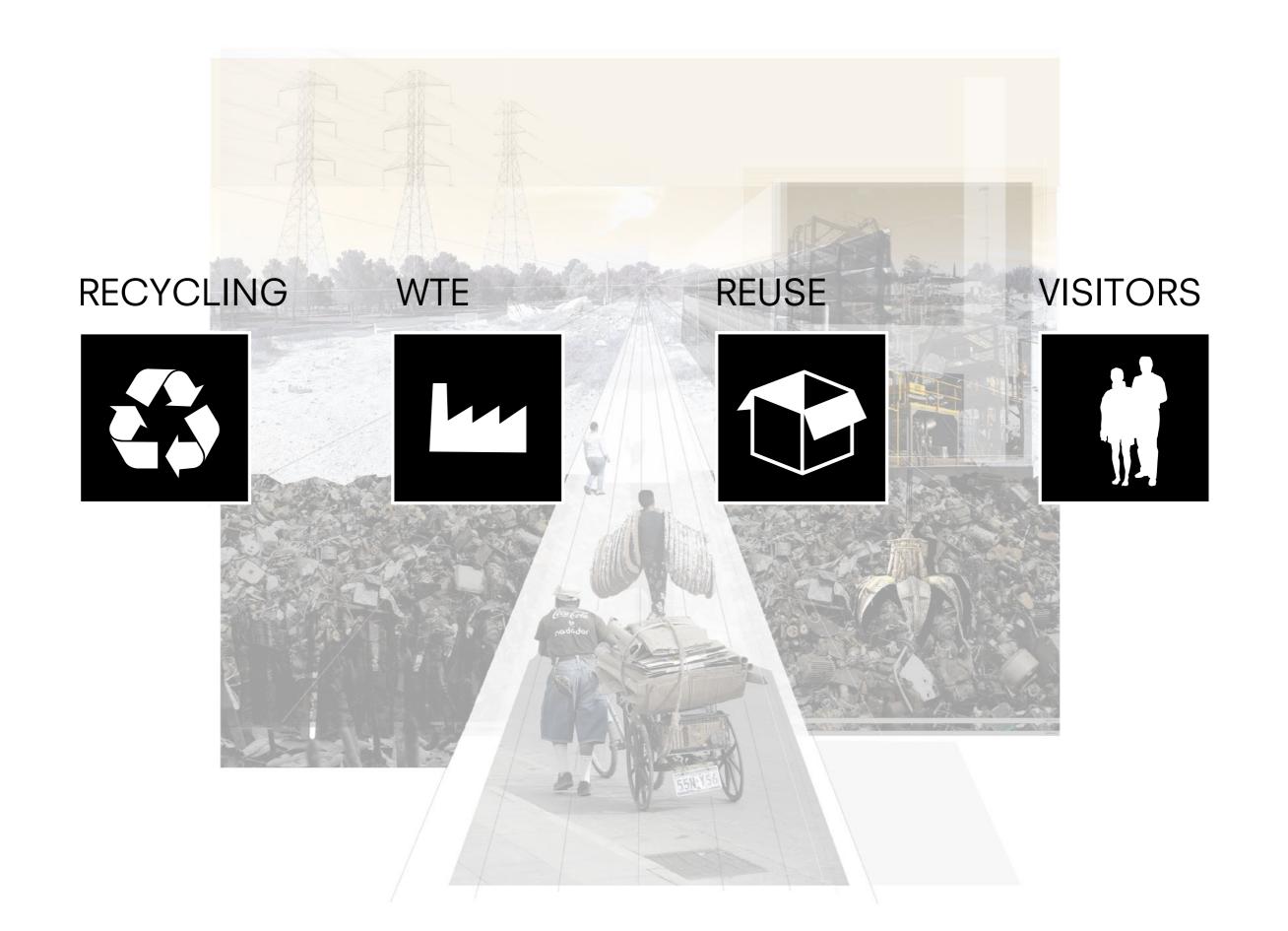




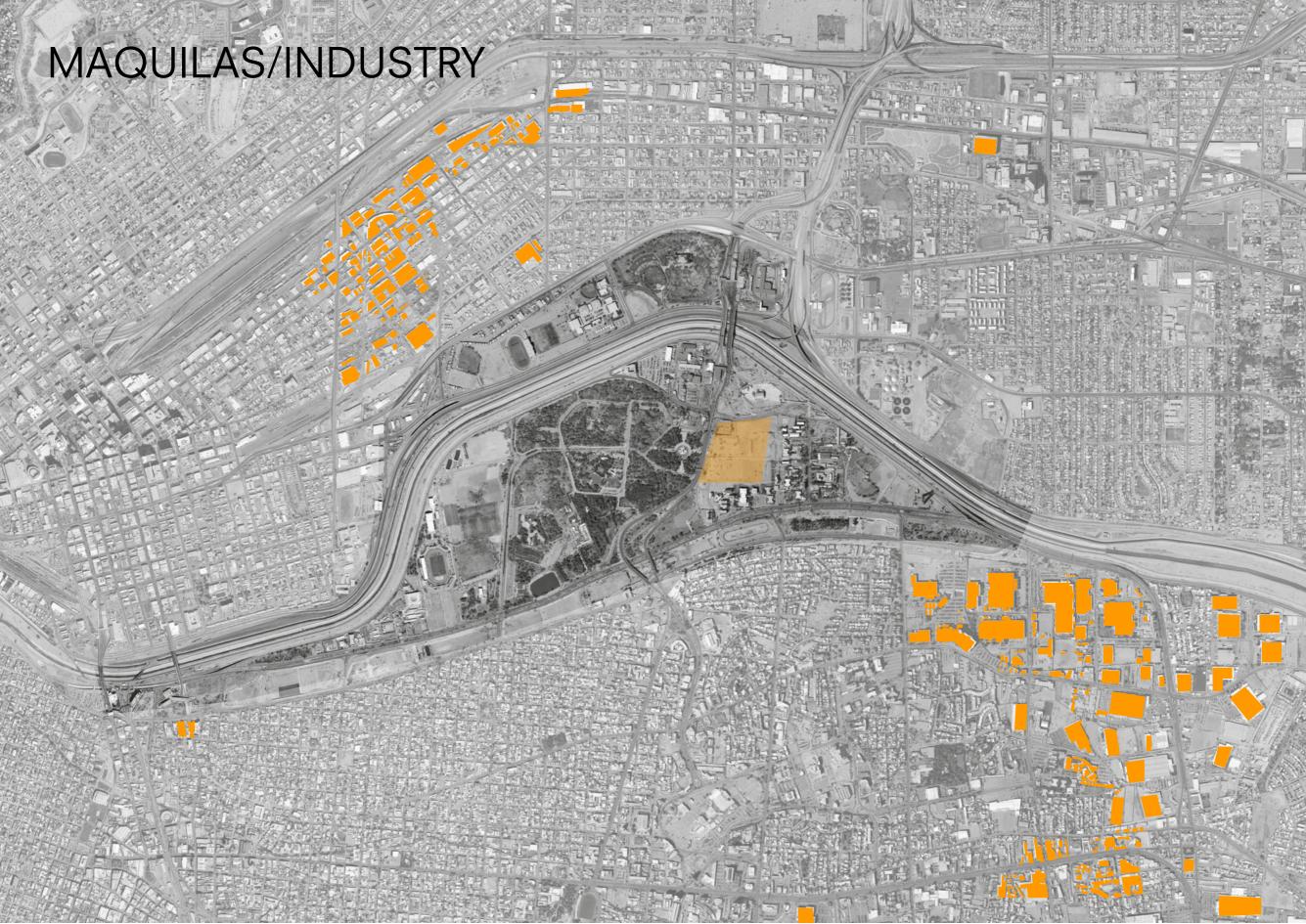
EXISTING SITUATION



PROPOSED STRATEGY



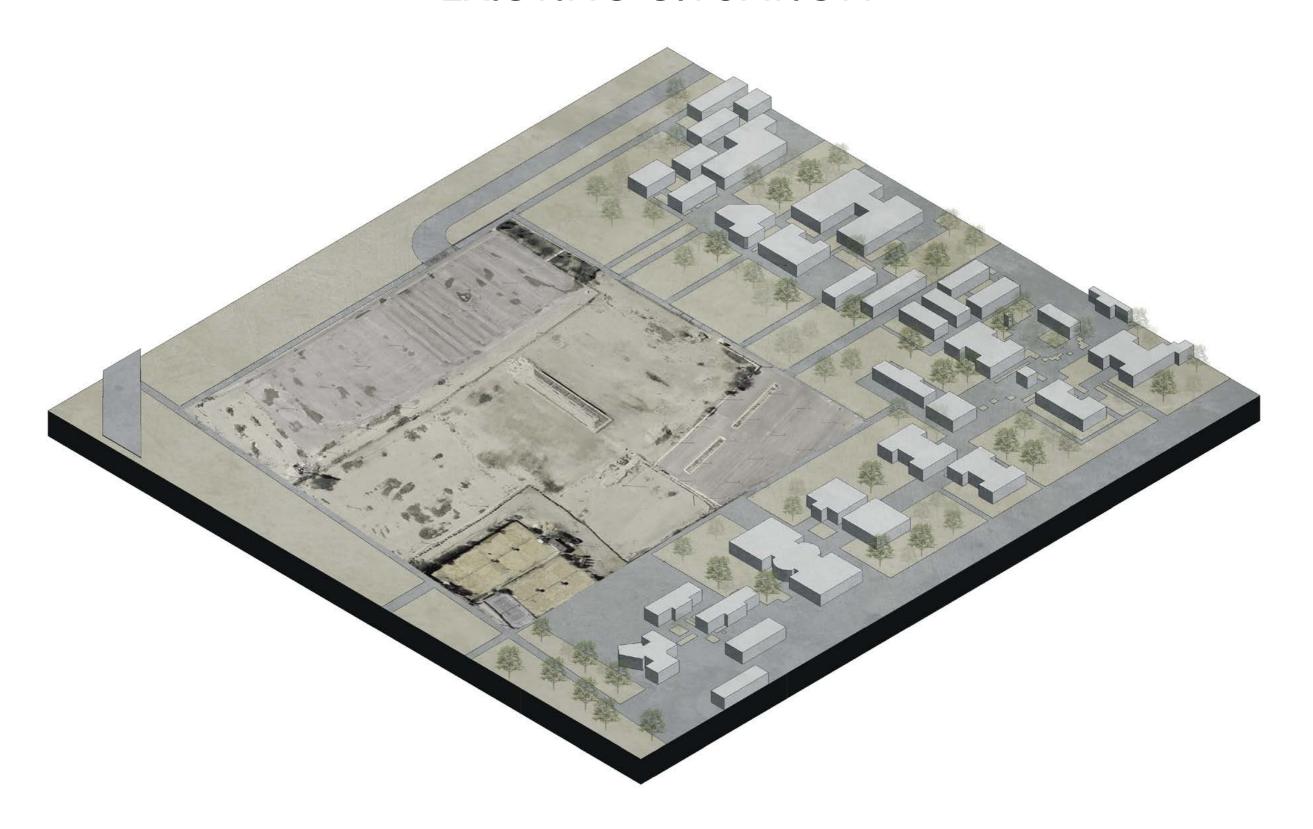




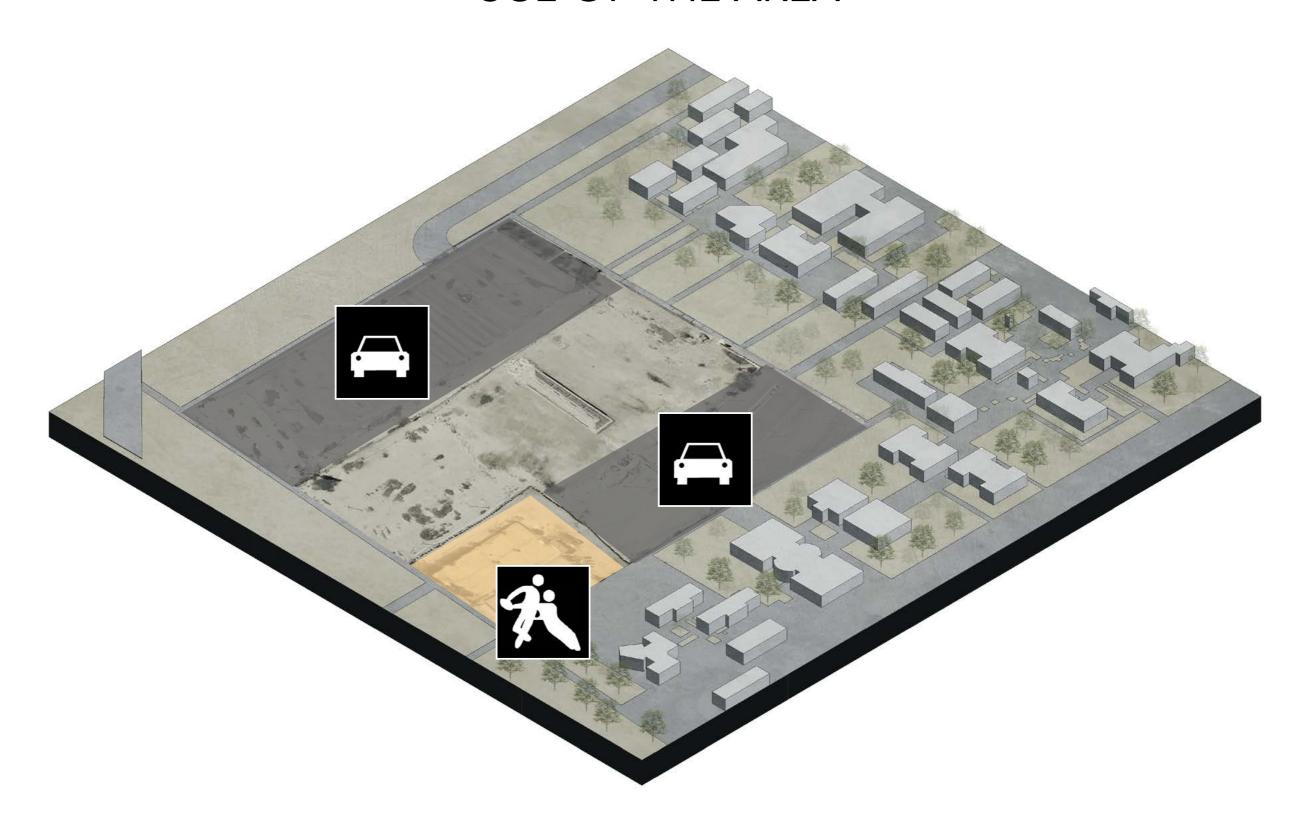




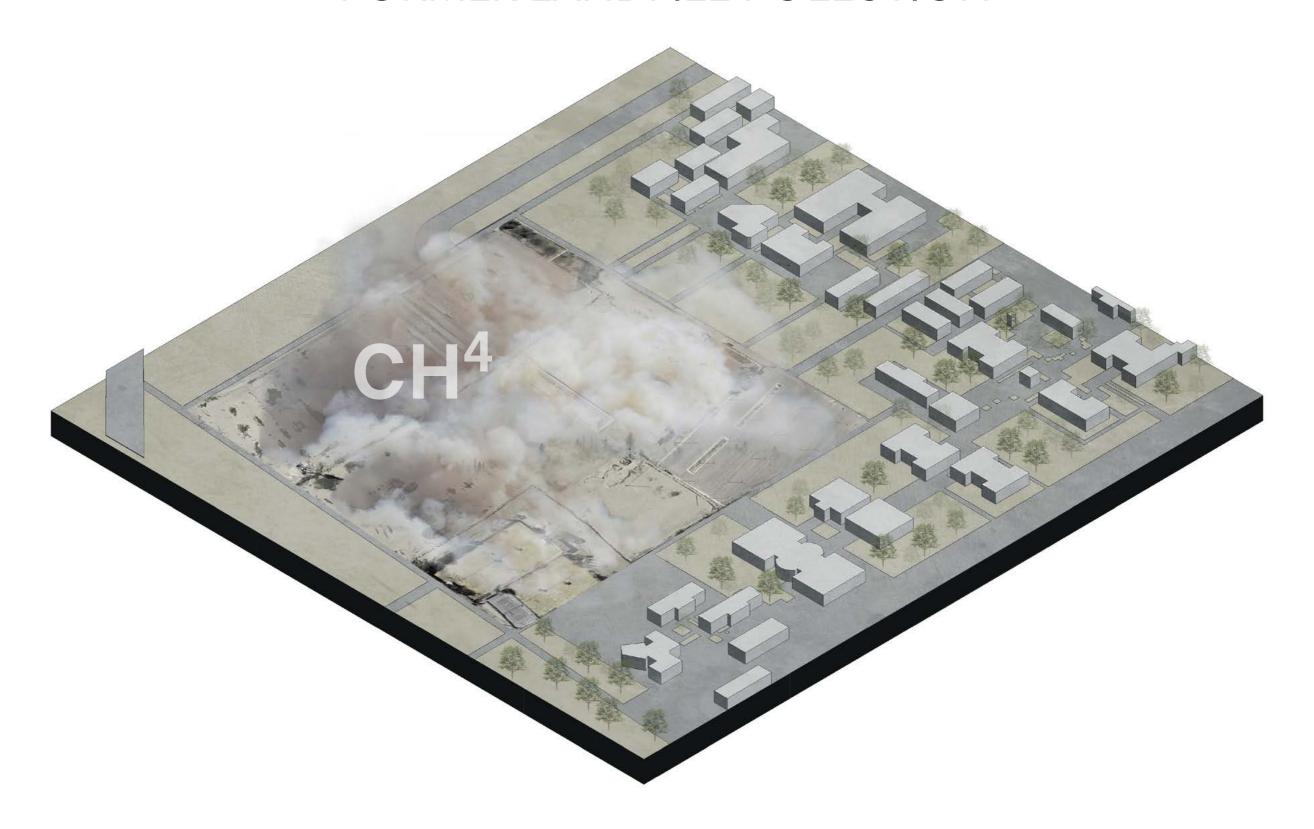
EXISTING SITUATION



USE OF THE AREA



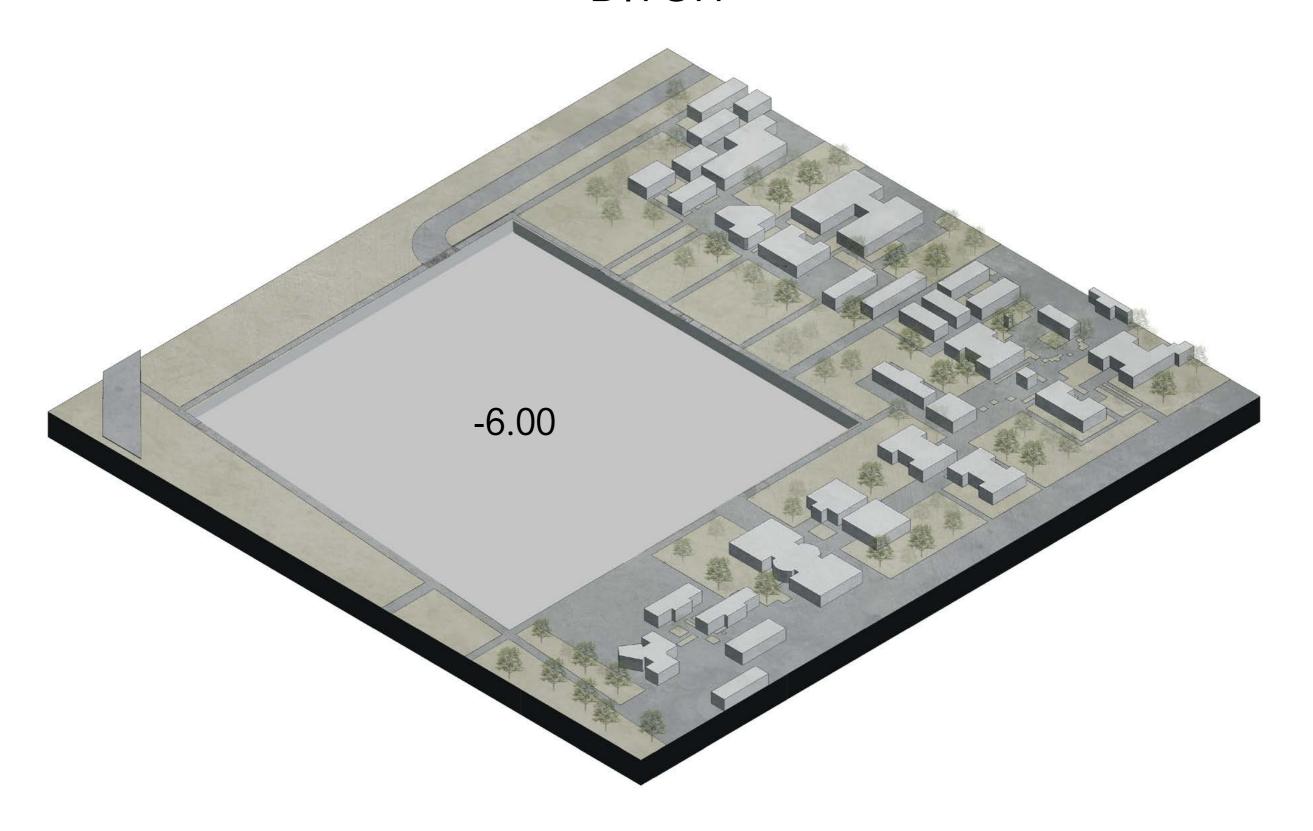
FORMER LANDFILL POLLUTION



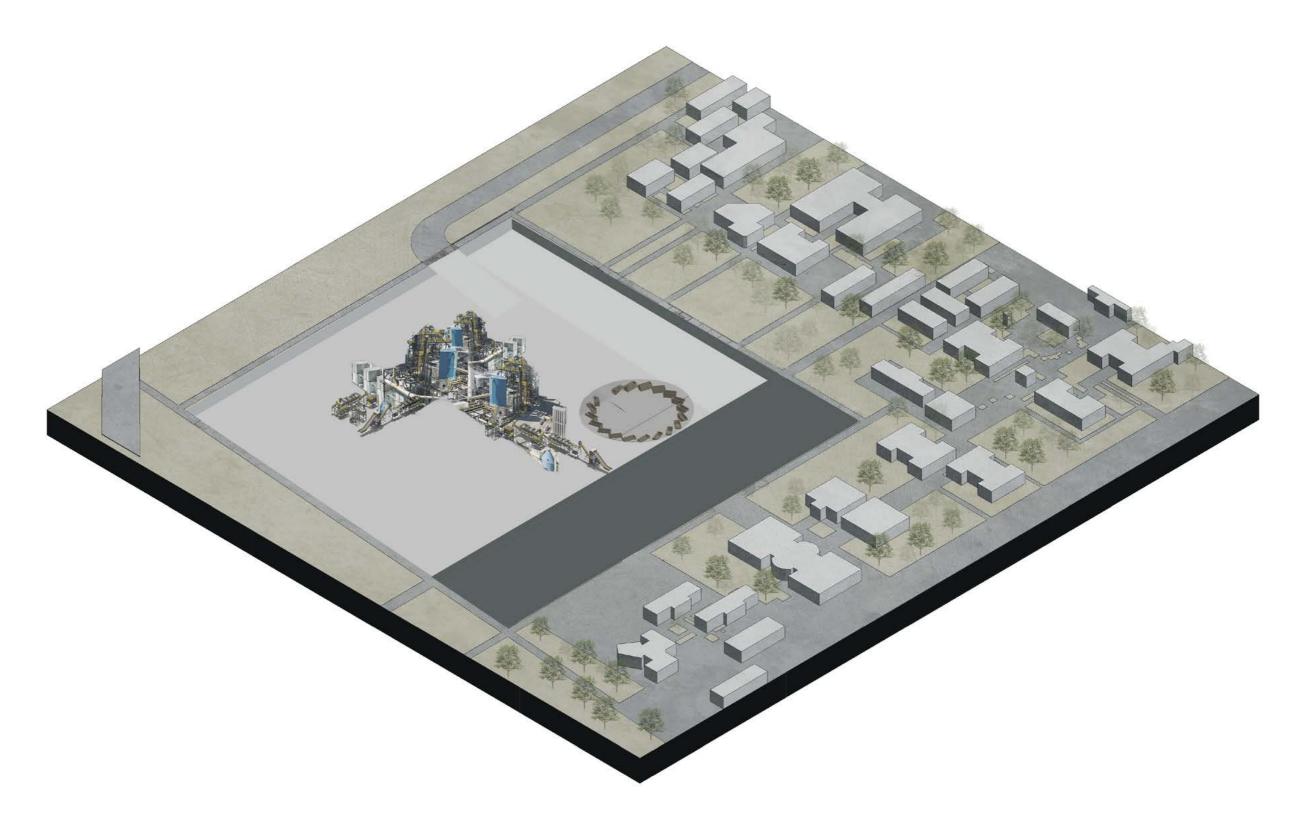
REMOVING WASTE



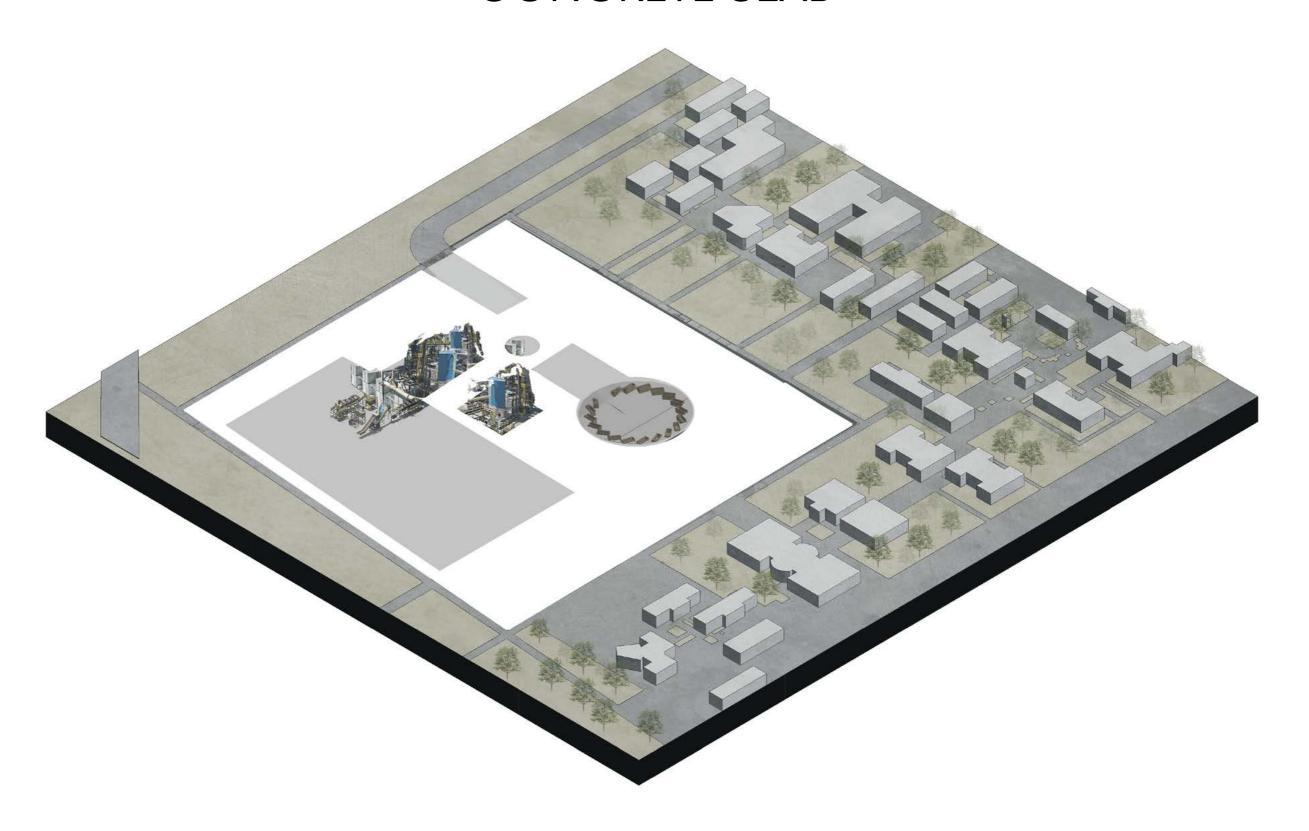
DITCH



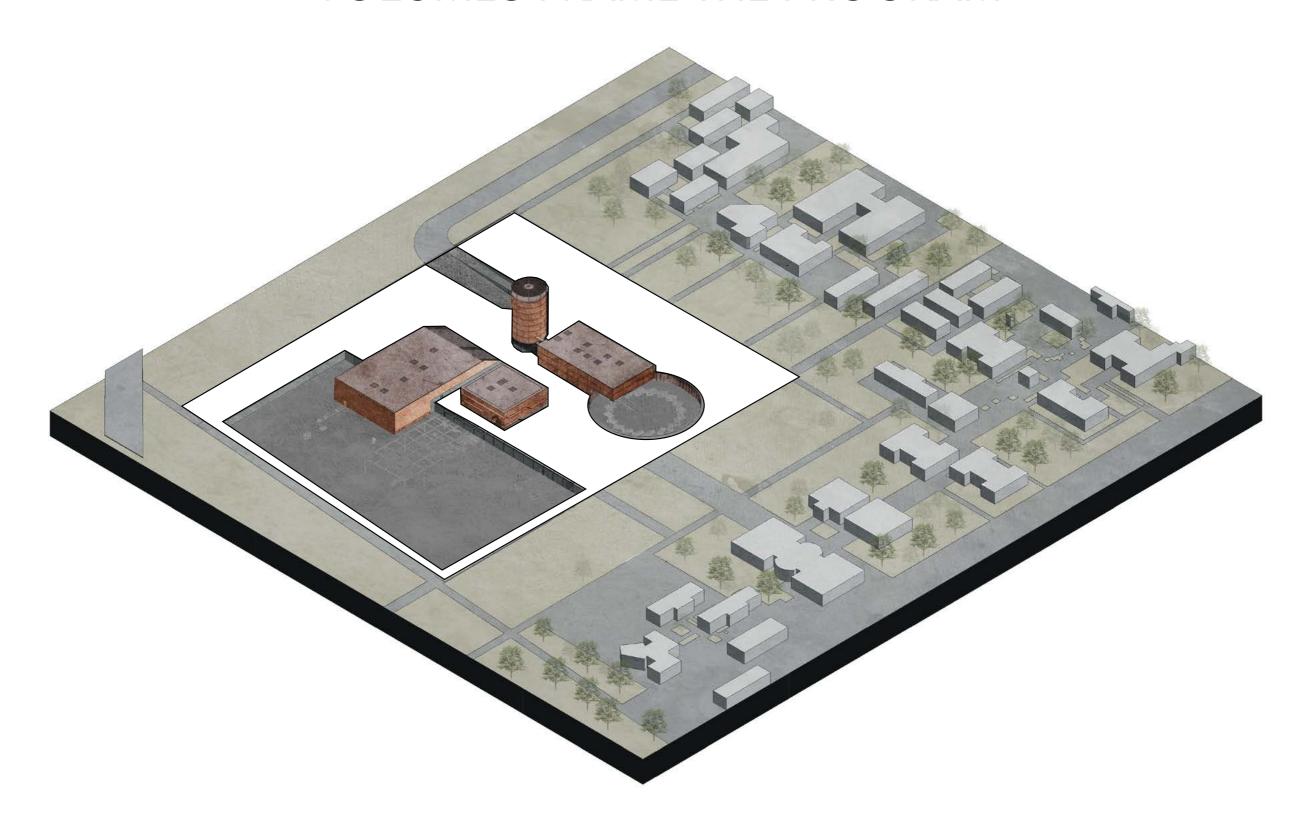
MACHINES - UNDERGROUND



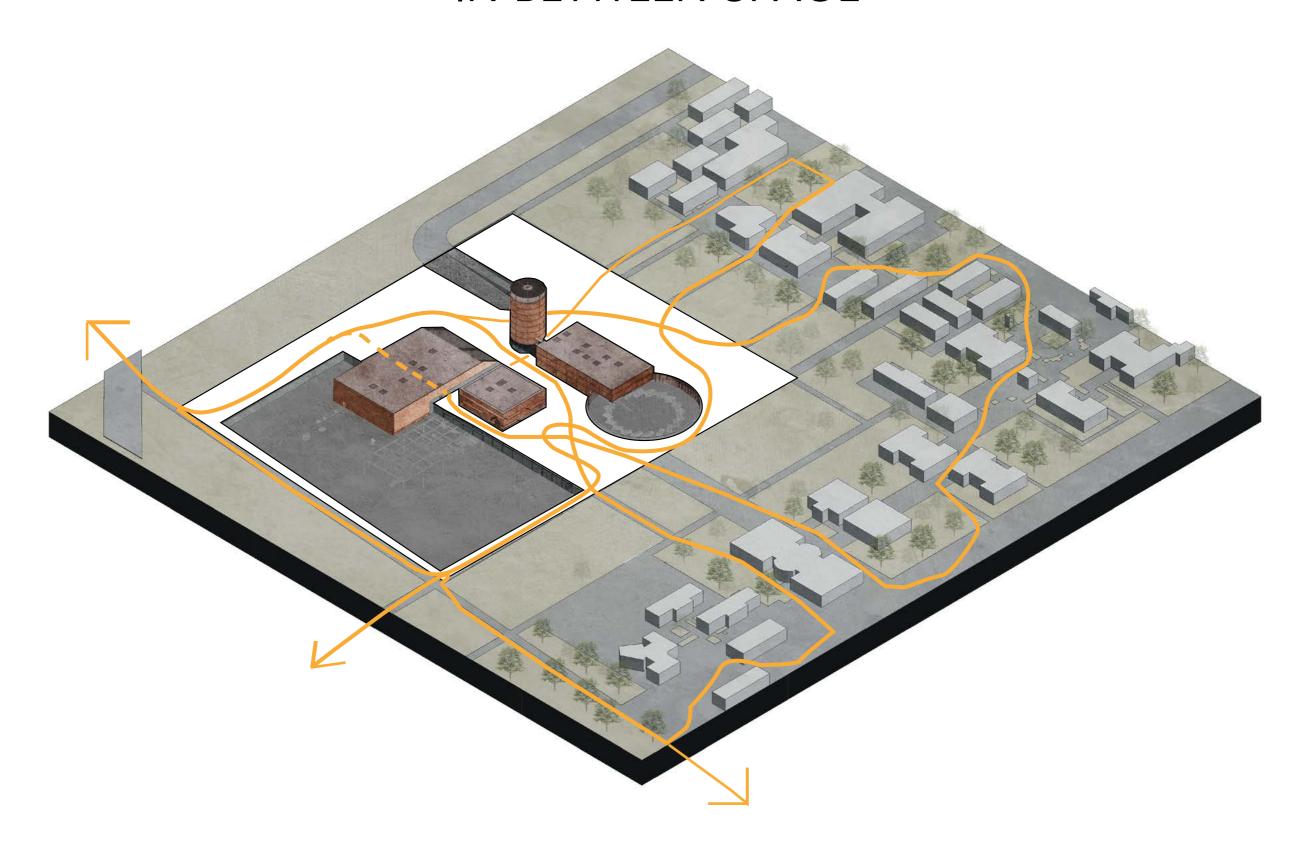
CONCRETE SLAB



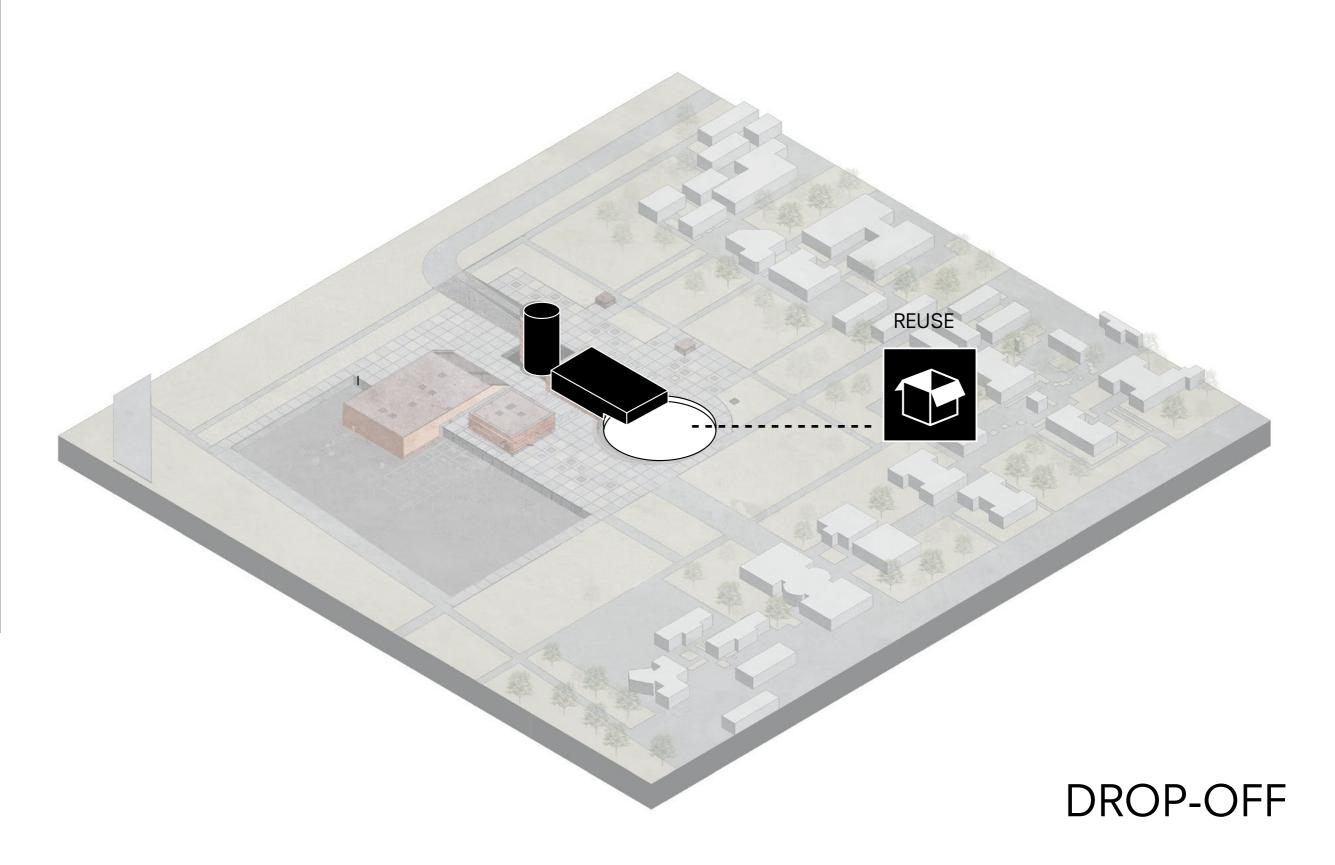
VOLUMES FRAME THE PROGRAM

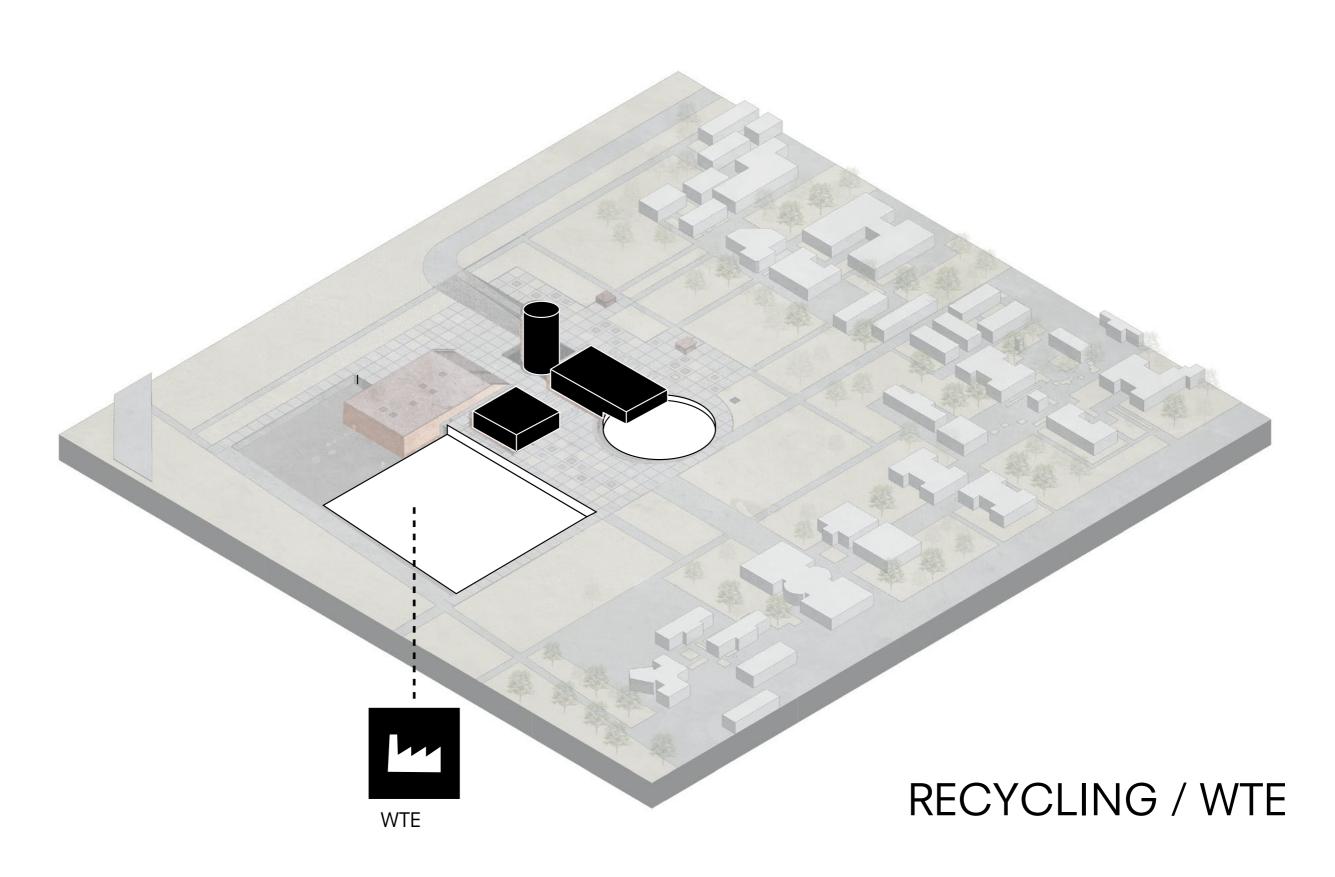


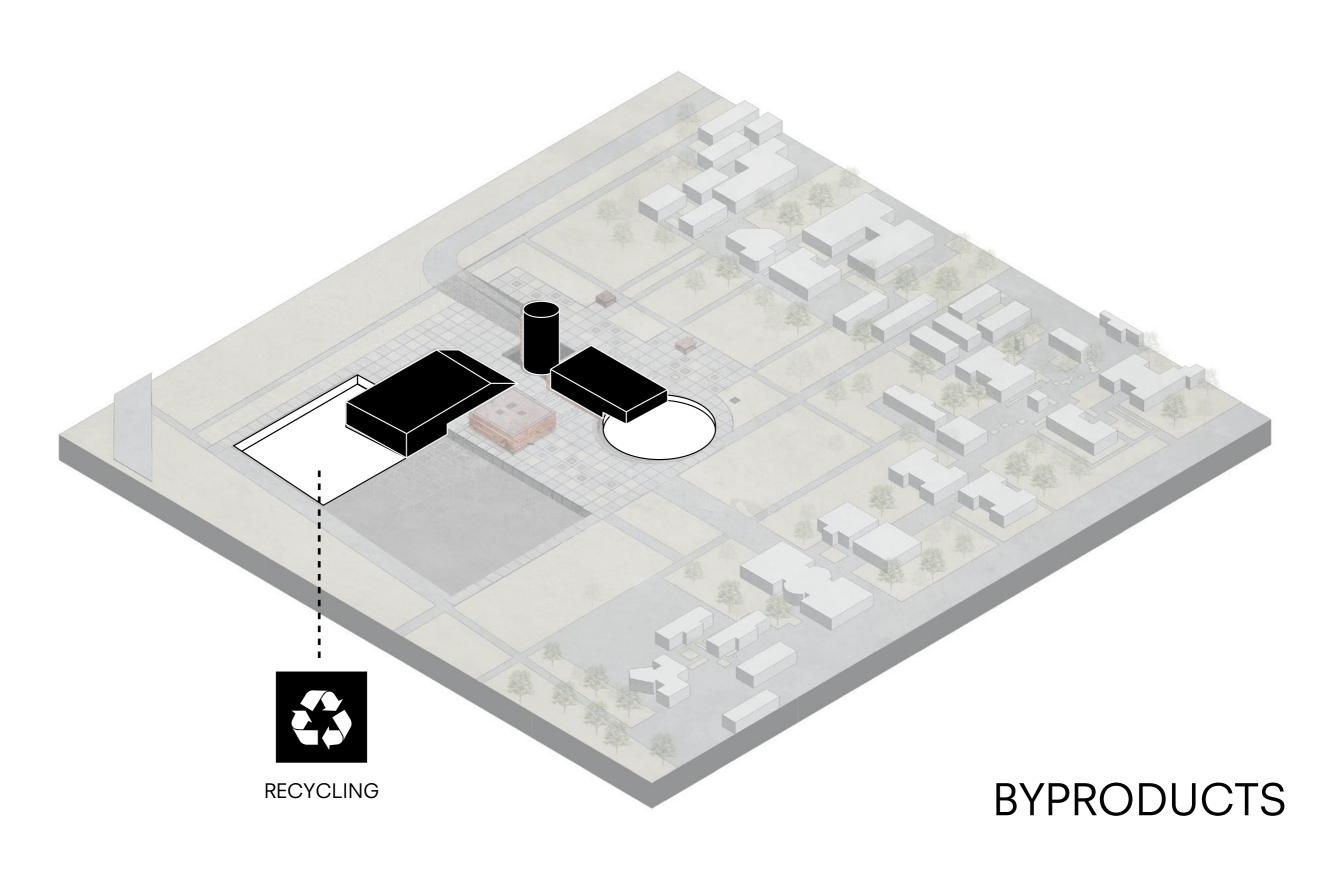
IN-BETWEEN SPACE



ADMIN. EDUCATION **ADMINISTRATION**









BORDER WASTE

REGION & TWIN-CITY



LINEAR ECONOMY



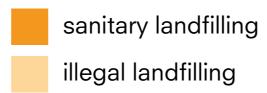


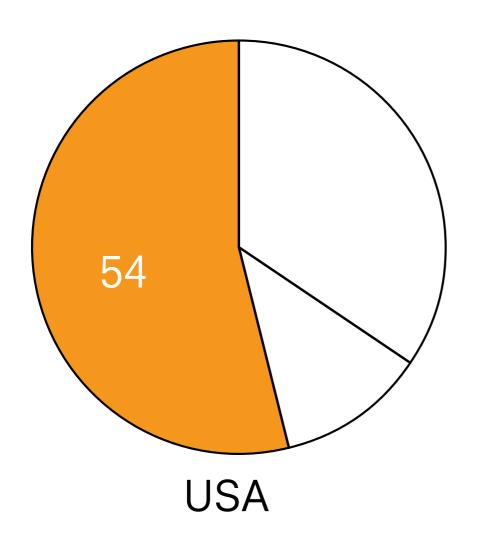
CIRCULAR ECONOMY

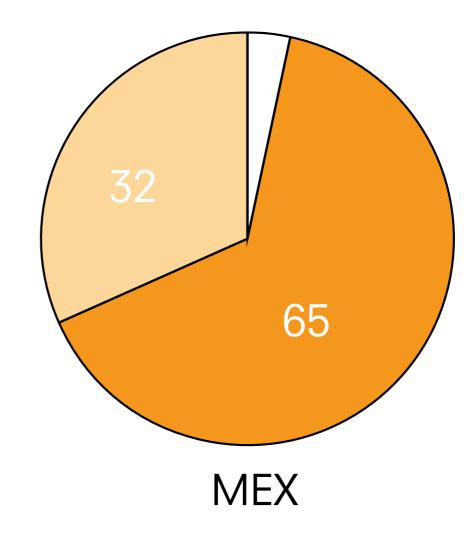


ZERO WASTE

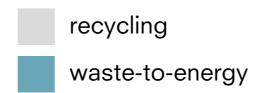
WASTE MANAGEMENT

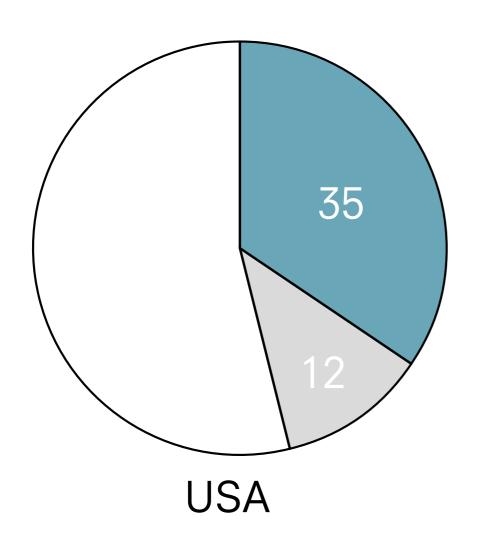


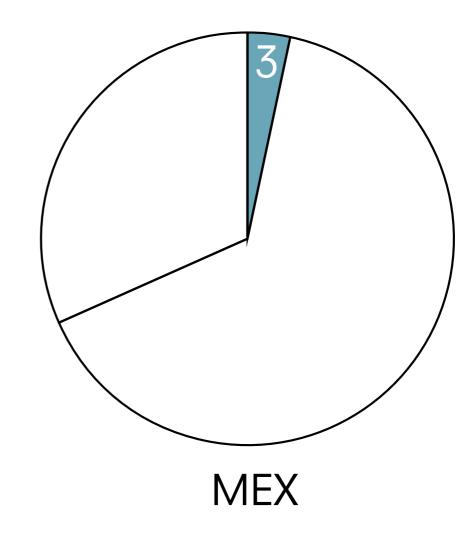




WASTE MANAGEMENT

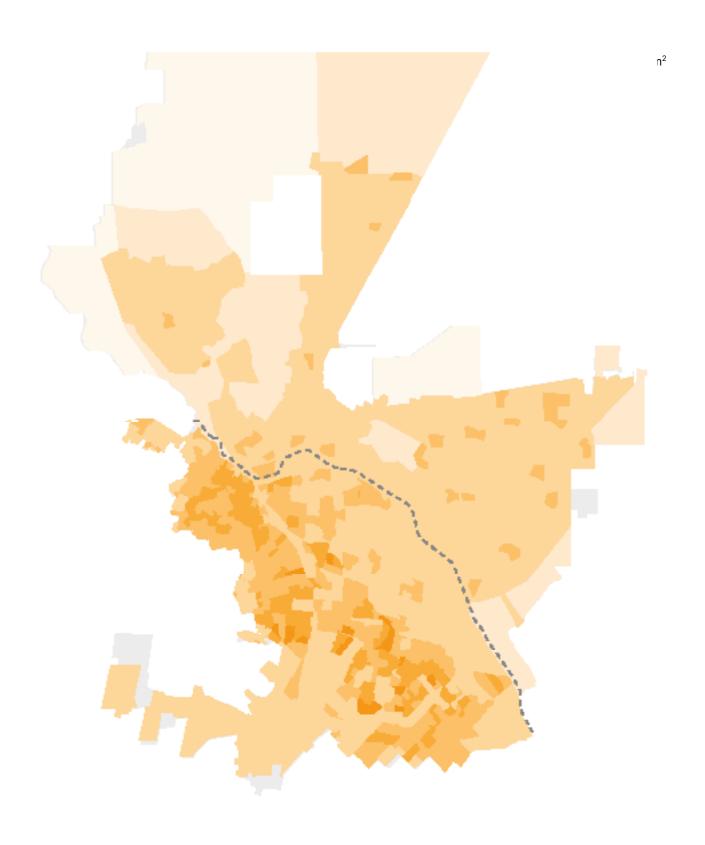






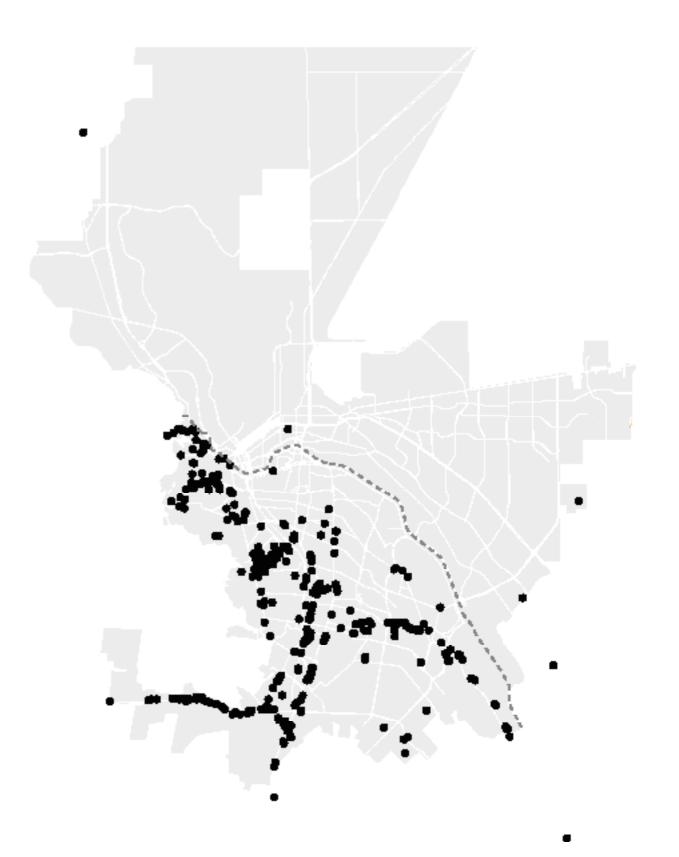
ISSUES: WASTE PRODUCTION





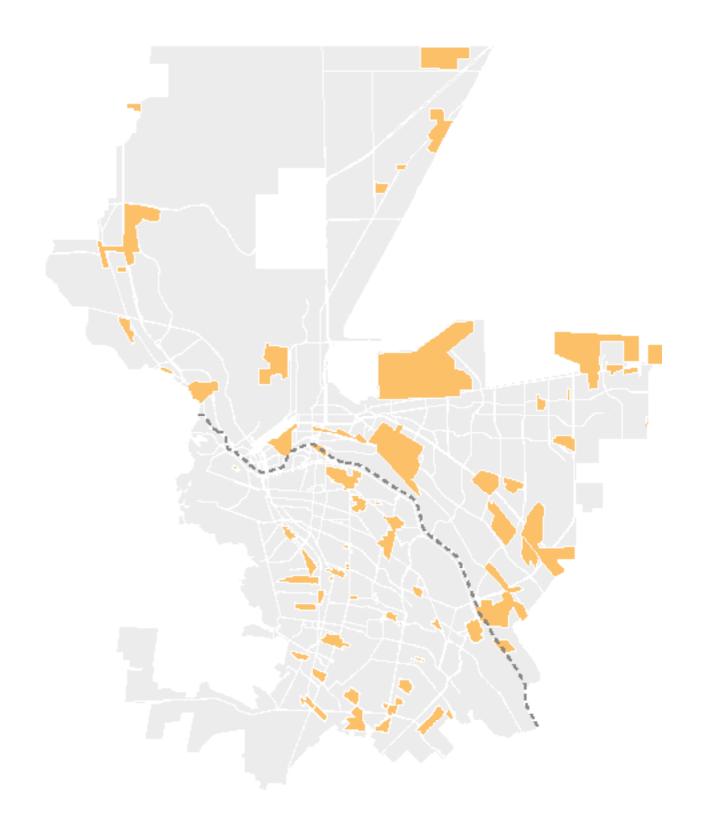
ISSUES: JUNKYARDS





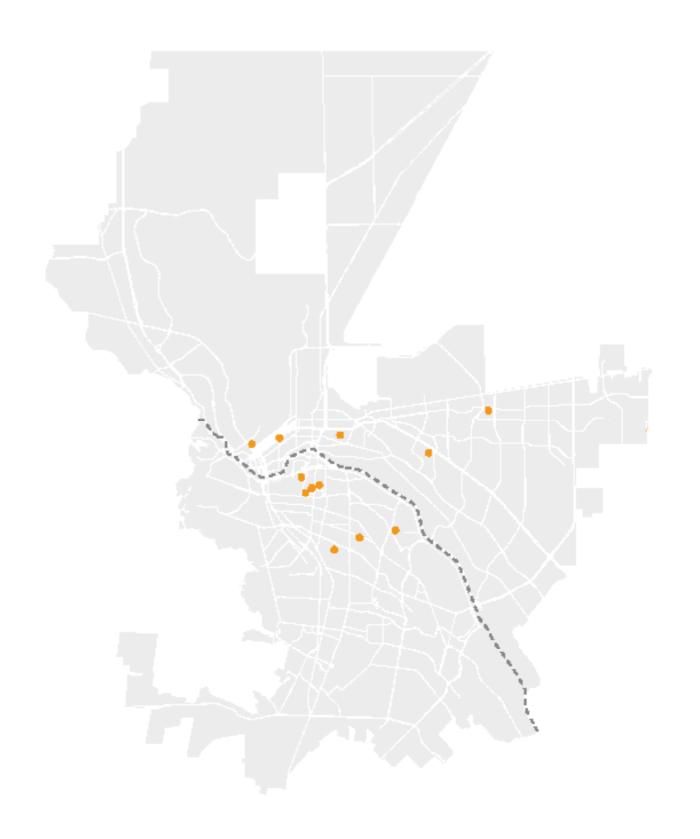
ISSUES: MAQUILAS, INDUSTRY





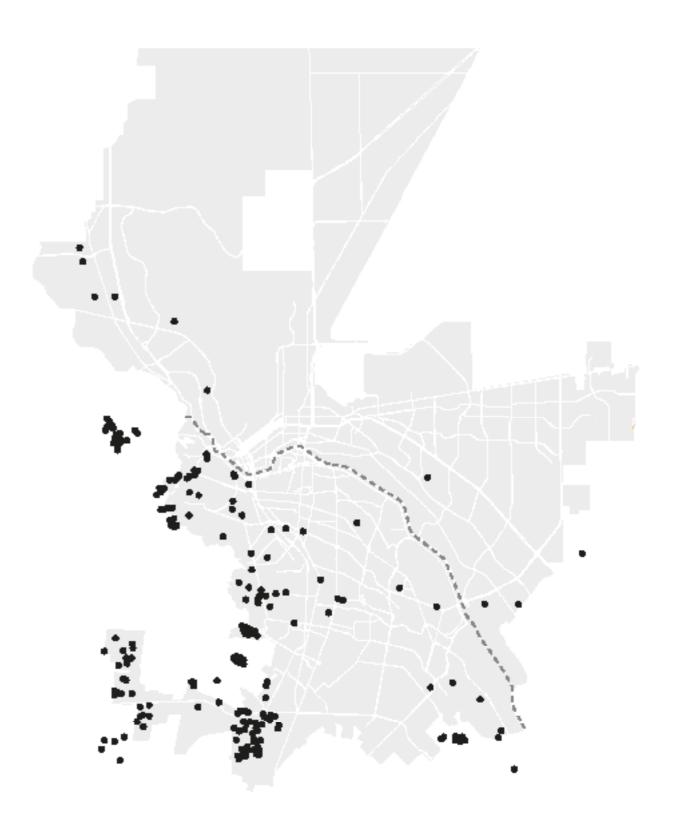
ISSUES: HOSPITALS





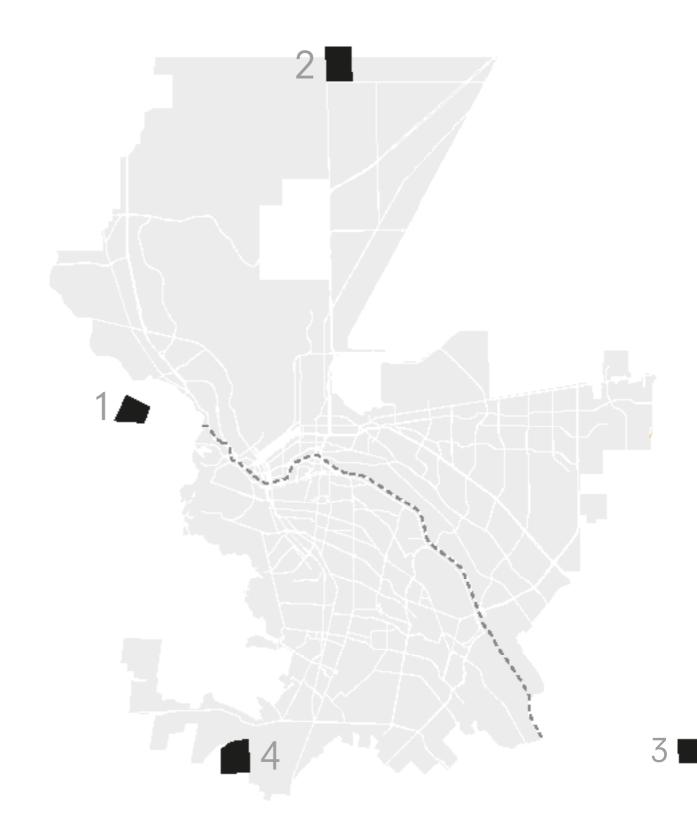
BRICK KILNS





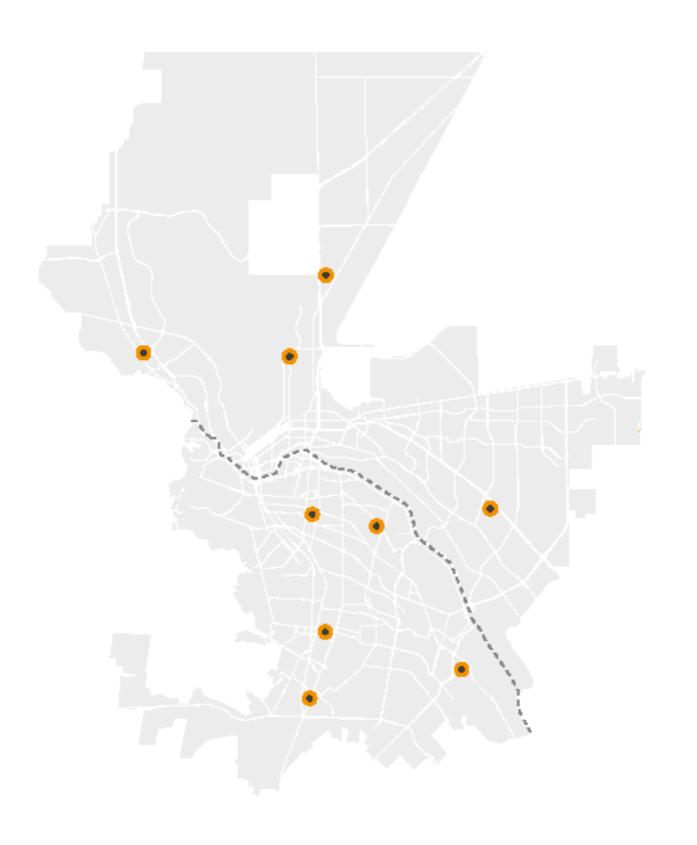
MANAGEMENT: LANDFILLING

name size capacity total 3 963 000 t name size capacity total name size capacity total name size capacity total



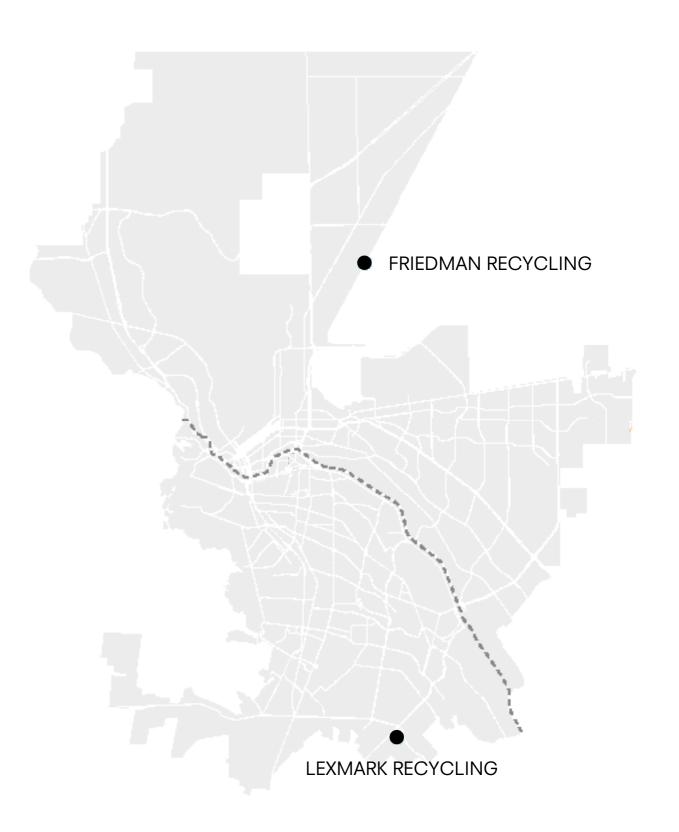
MANAGEMENT: DROP-OFF STATIO





RECYCLING CENTERS

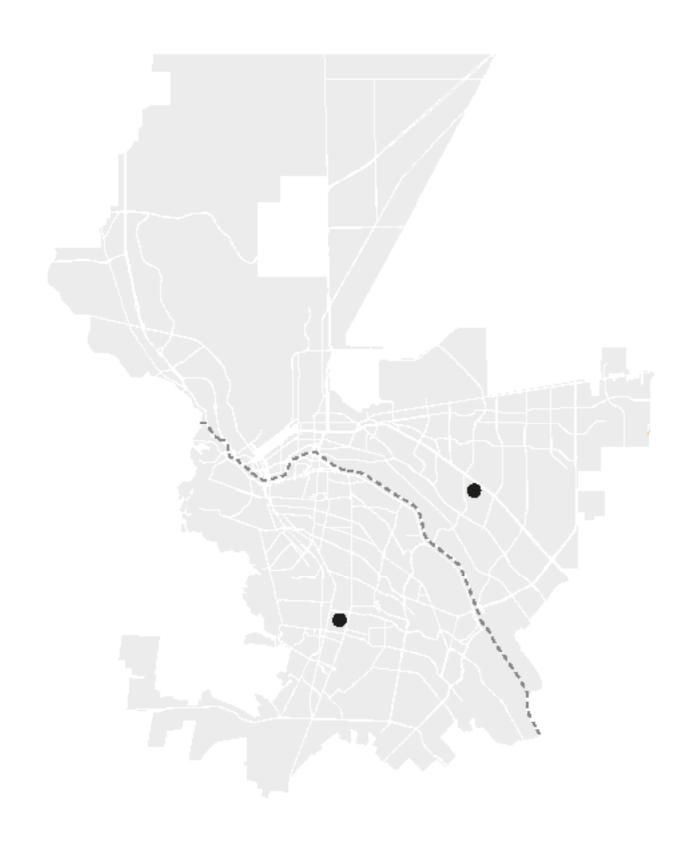




MANAGEMENT: WASTE COLLECTIC



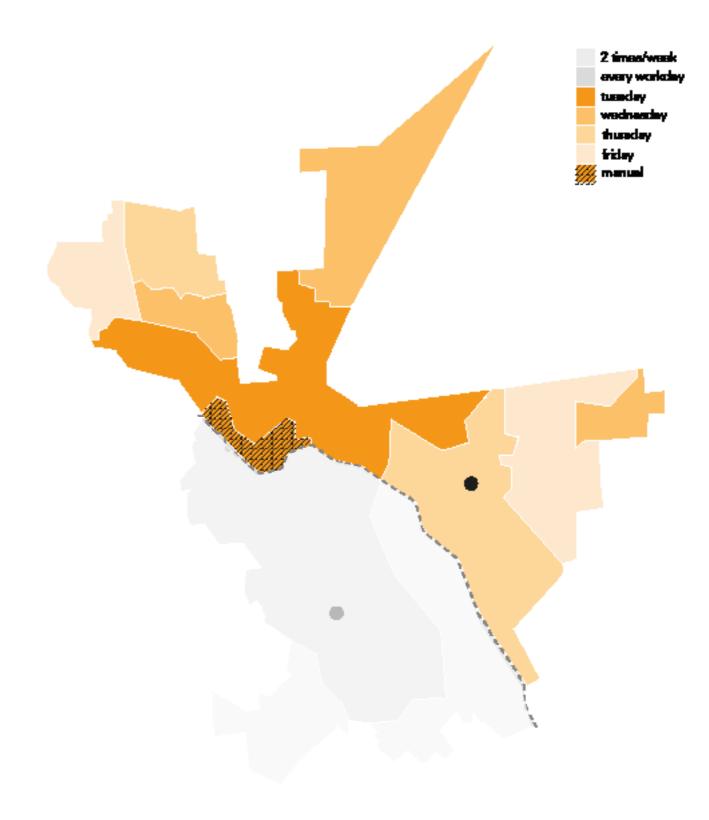




MANAGEMENT: WASTE COLLECTIC



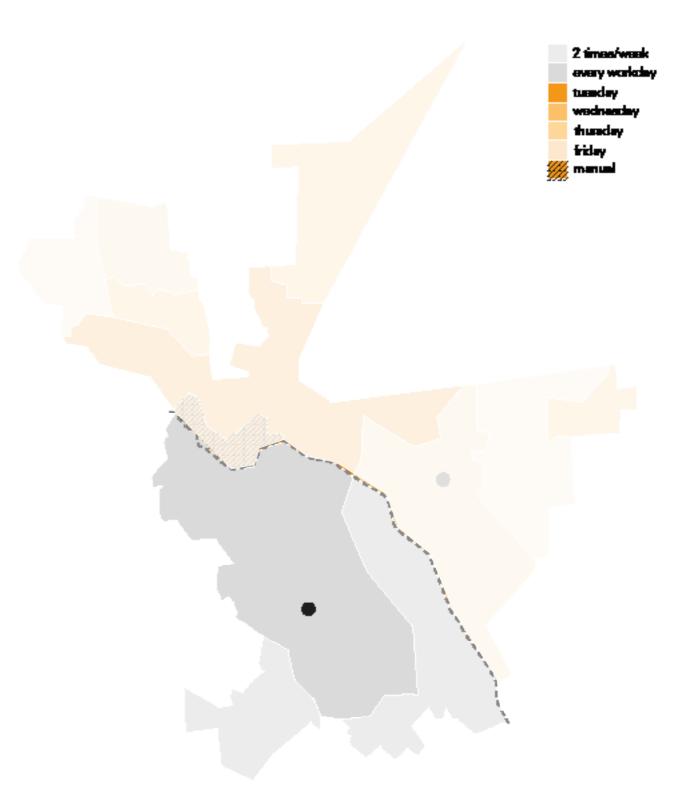




MANAGEMENT: WASTE COLLECTION



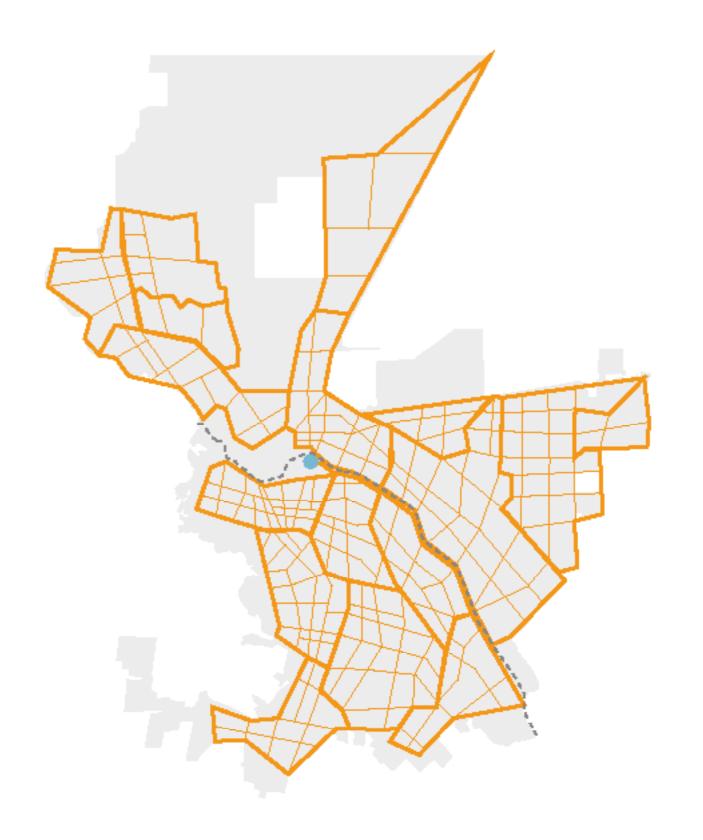




WASTE COLLECTION: URBAN WASTE



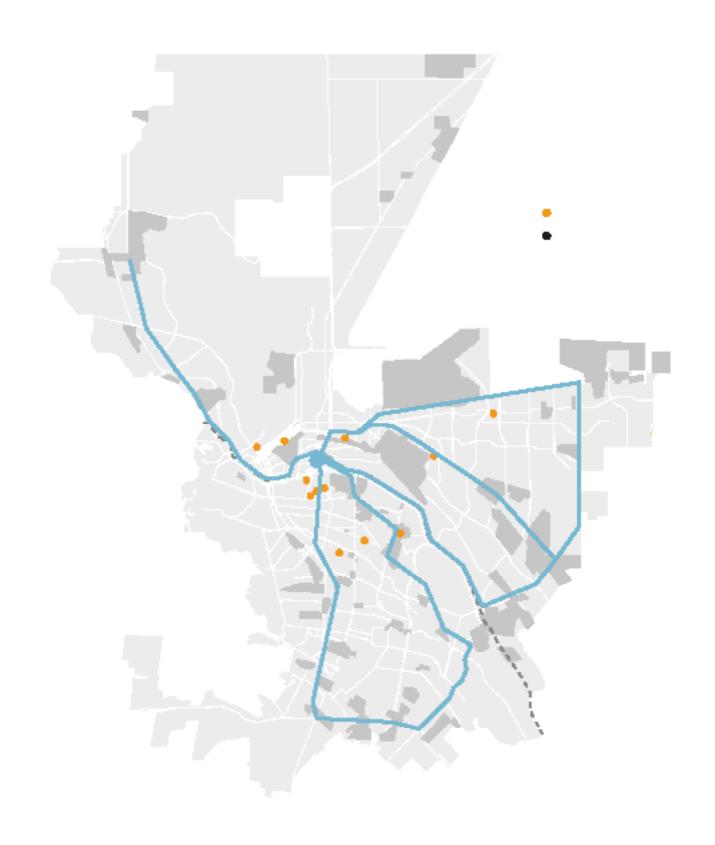




COLLECTION ROUTES: **HAZARDOUS WASTE**



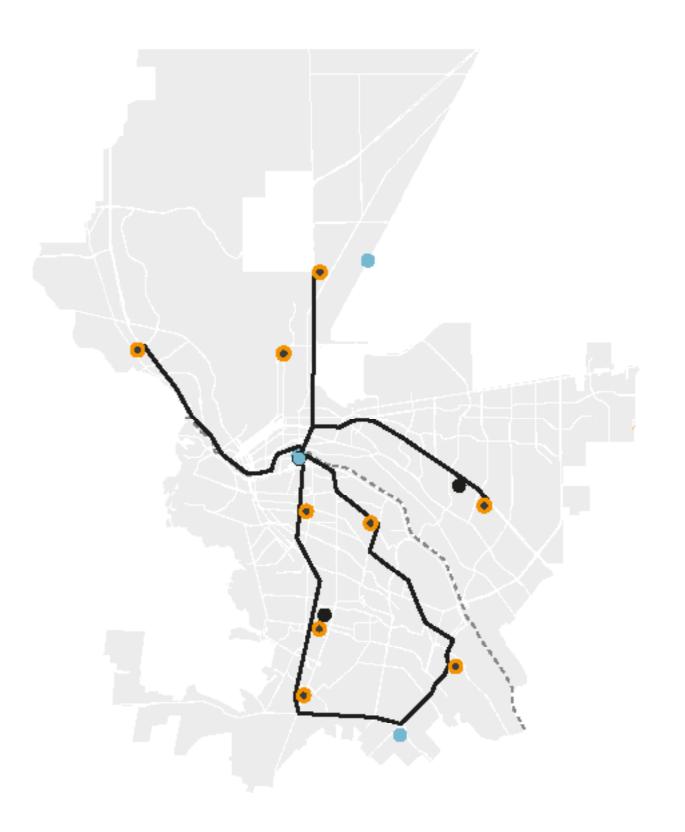




COLLECTION ROUTES: **REUSE**



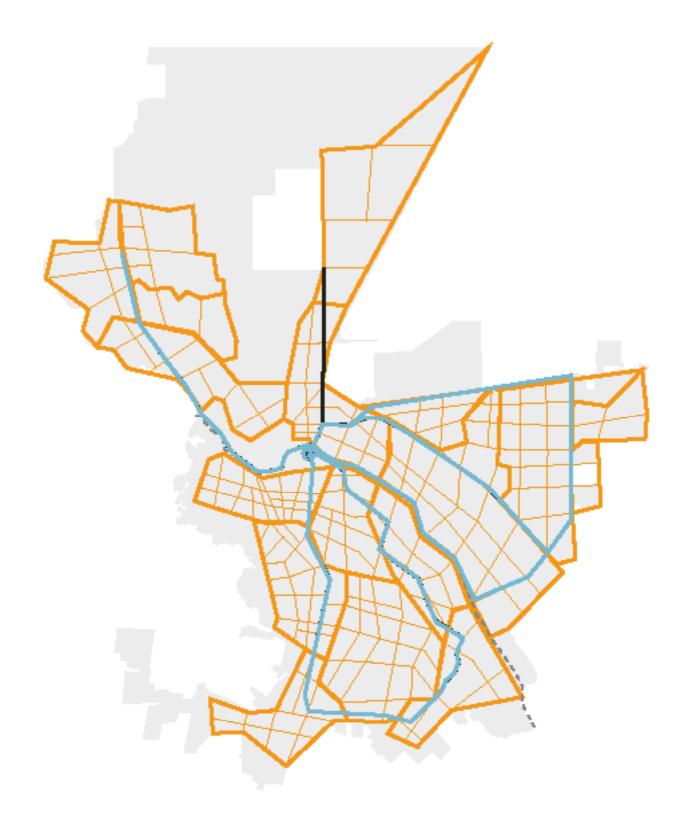




ALL ROUTES: **TOTAL**







CASE STUDIES - CONCLUSIONS



SUNSET PARK MEMORIAL VISITOR CENTER SELLDORF ARCHITECTS, BROOKLYN, NY



SUNSET PARK MEMORIAL VISITOR CENTER SELLDORF ARCHITECTS, BROOKLYN, NY



INCINERATION PLANT 1, DENMARK



PLASCO WASTE TO ENERGY PLANT PLASCO ENERGY GROUP

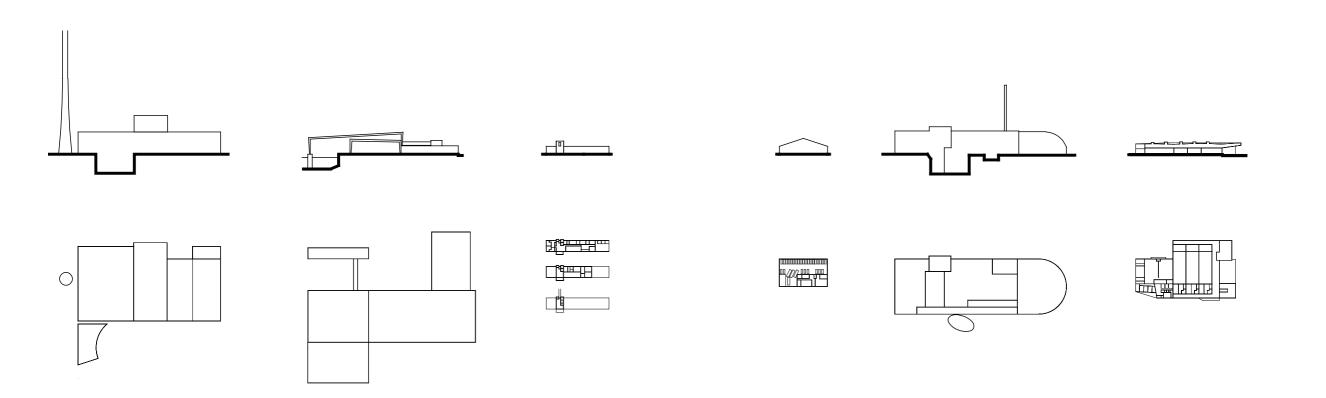


SMILIEUSTRAAT DROP-OFF CENTER, DORDRECHT GROSSMAN ARCHITECTS



HDE 17 FACTORY, FRANCE POGGI ARCHITECTURE / MORE ARCHITECTURE

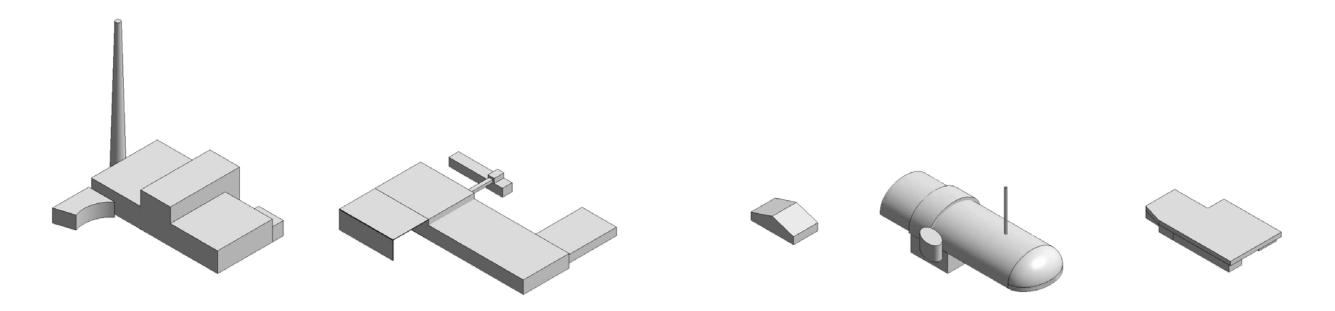
SIZE COMPARISON

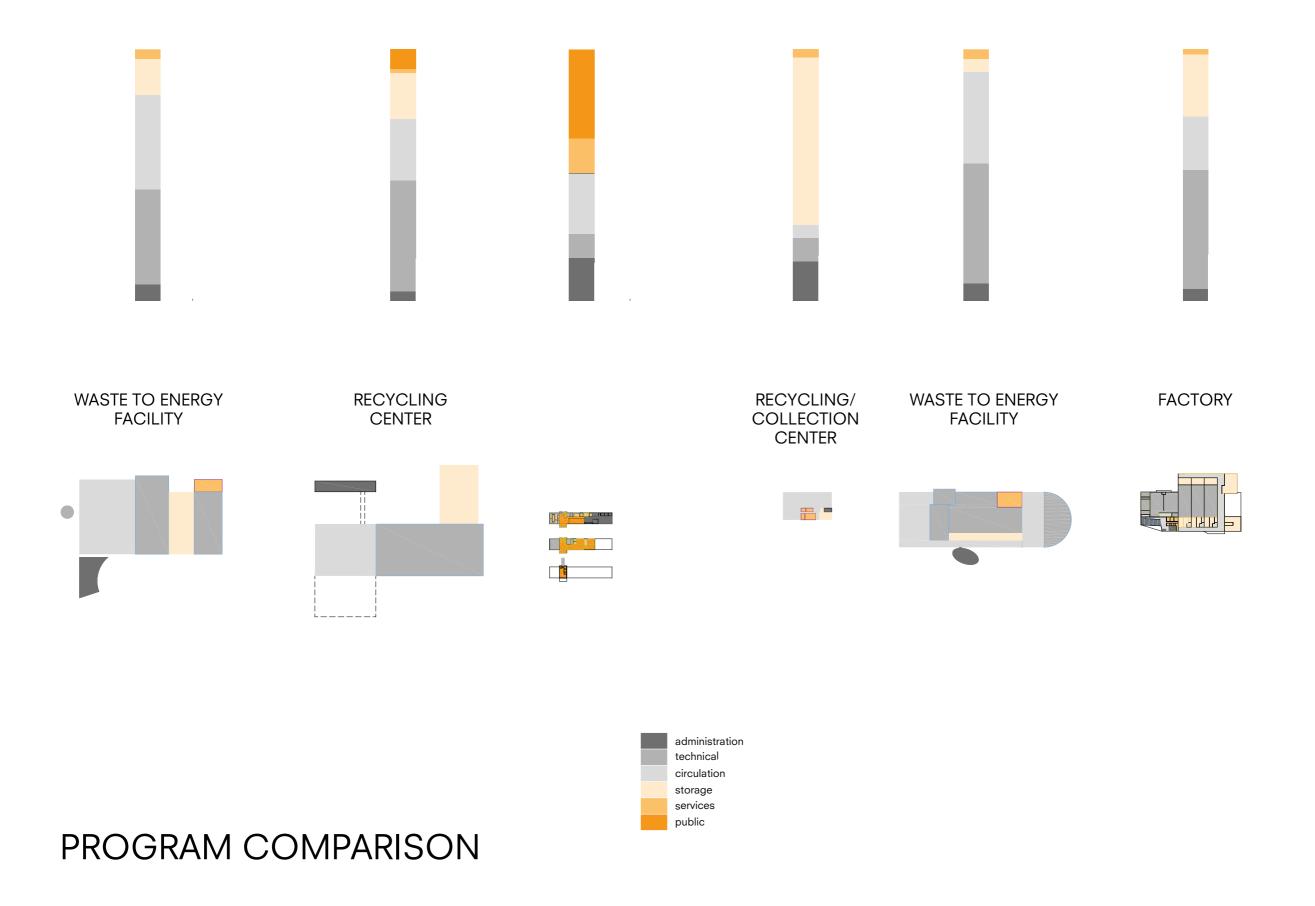


SIZE COMPARISON



MASSING COMPARISON



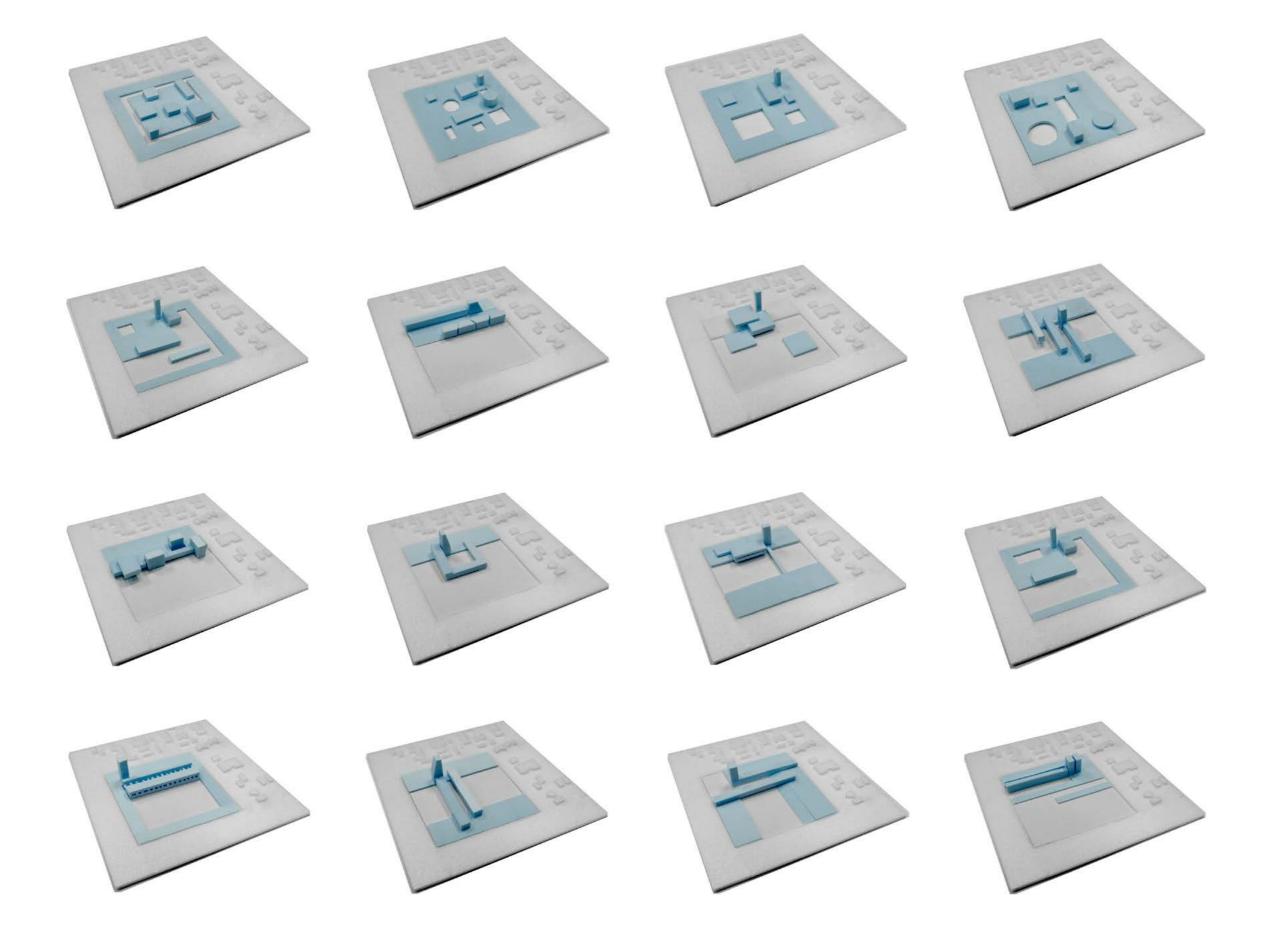


PROGRAM

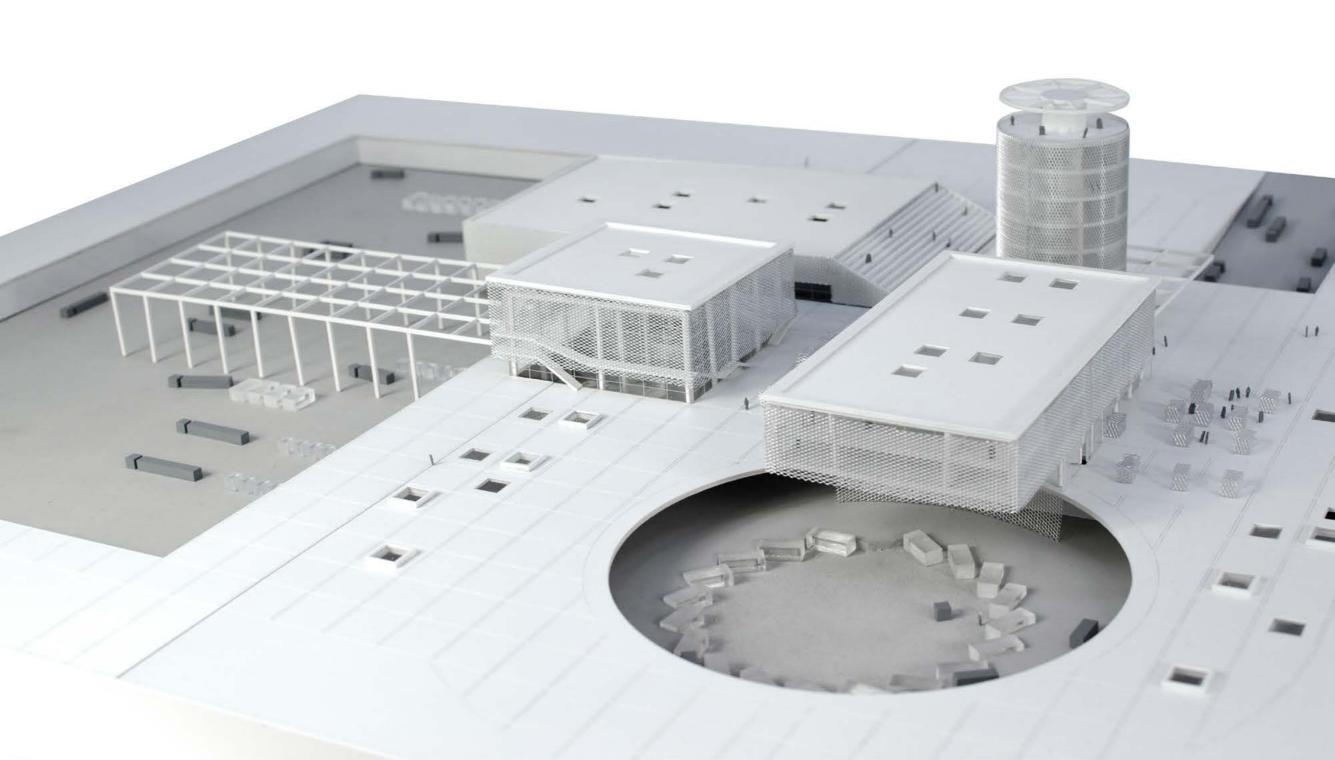
TOTAL 18 200 m²

4 %	ADMINISTRATION	2 %	circulation: 400 m ² facilities/services: 220 m ² administration: 400 m ²
13 %	REUSE	5%	diagnose/storage: 900 m ²
		8 %	reuse technical: 1 380 m ²
		2%	facilities: 360 m ²
10 %	VISITORS	6%	visitors/circulation: 980 m ²
		2%	shop/gallery: 350 m ²
24 %	WASTE-TO-ENERGY	18 %	syngas storage/process: 500 m ² WTE machinery: 3 200 m ²
		3%	hazards tipping floor: 500 m²
49 %	SORTING	9 %	recycling storage: 1 700 m ²
		23%	recycling machinery: 4 200 m²
		17%	tipping floor: 3 100 m²

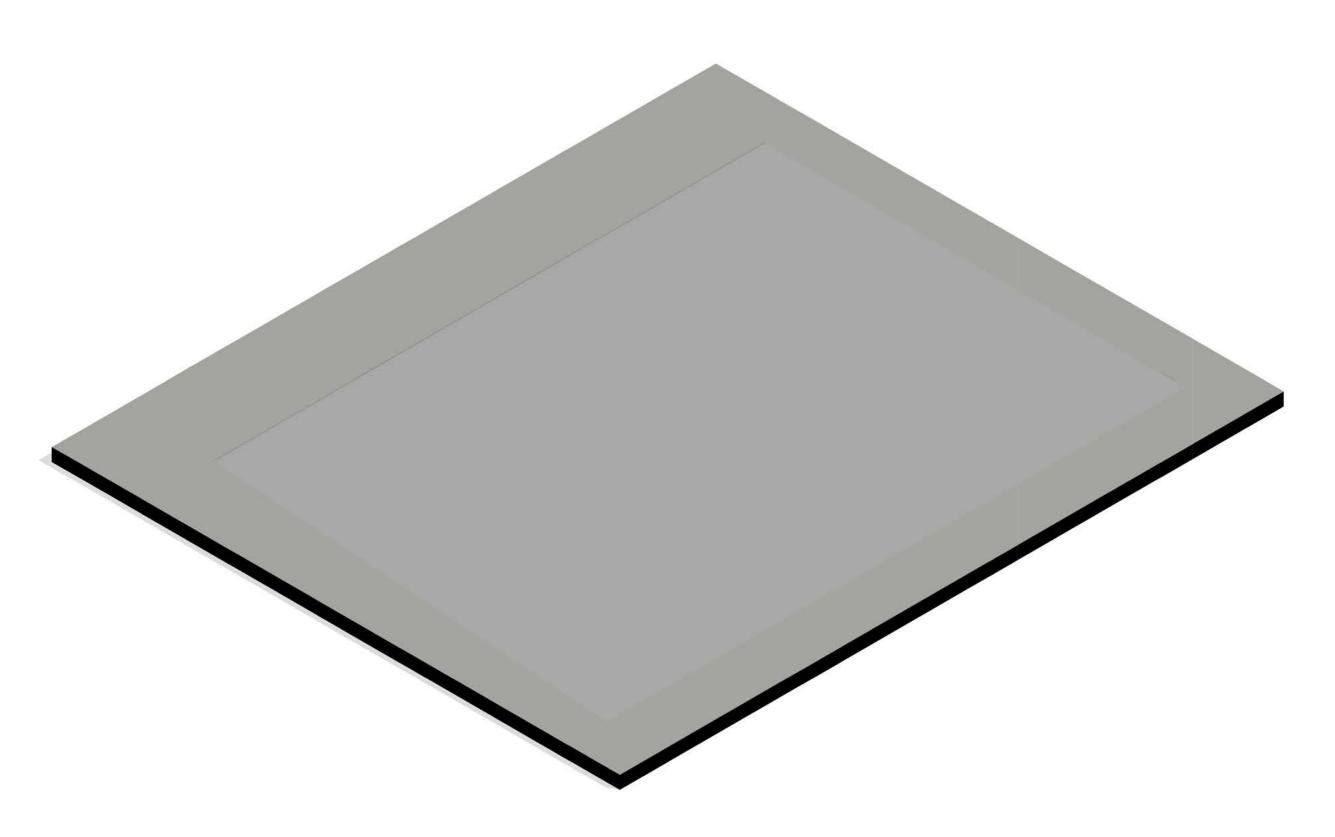
WASTE MANAGEMENT CENTER



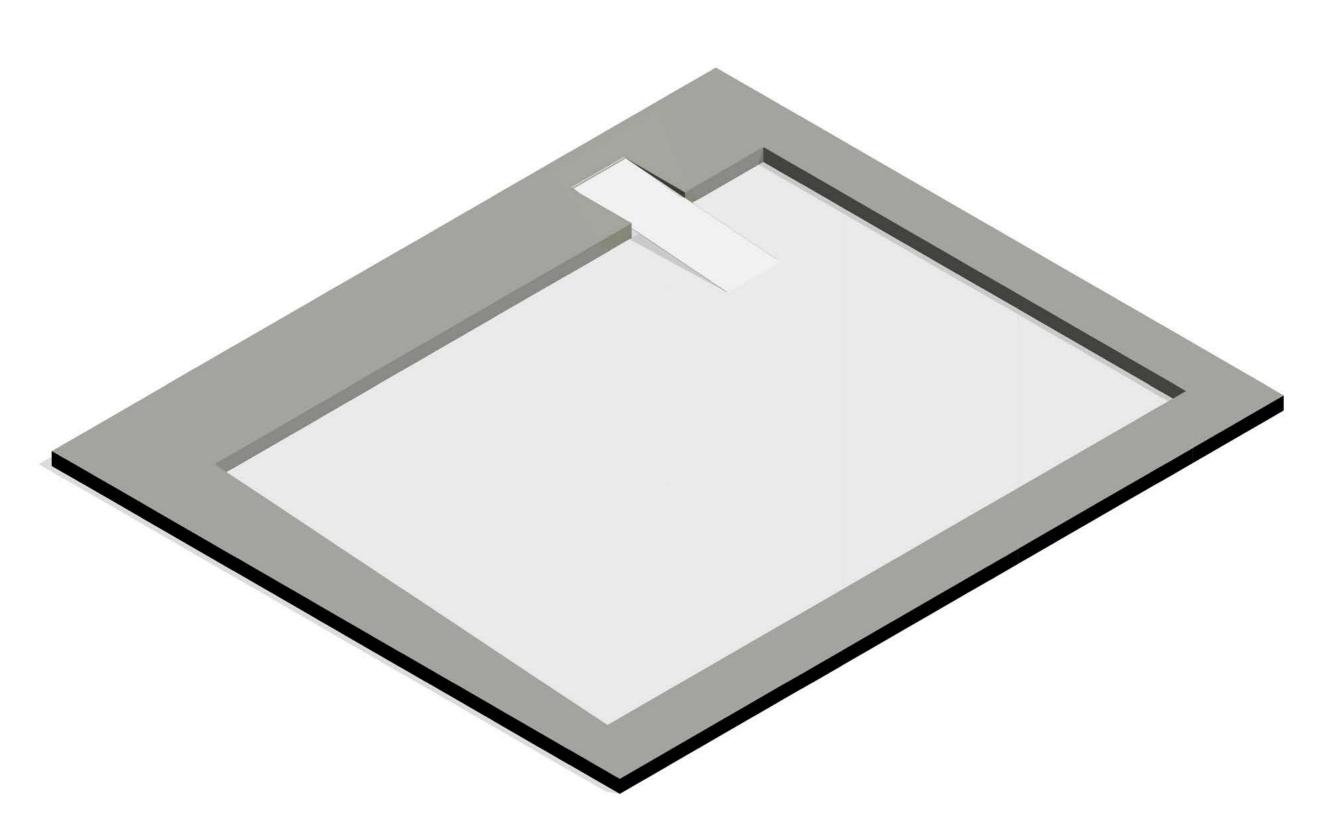




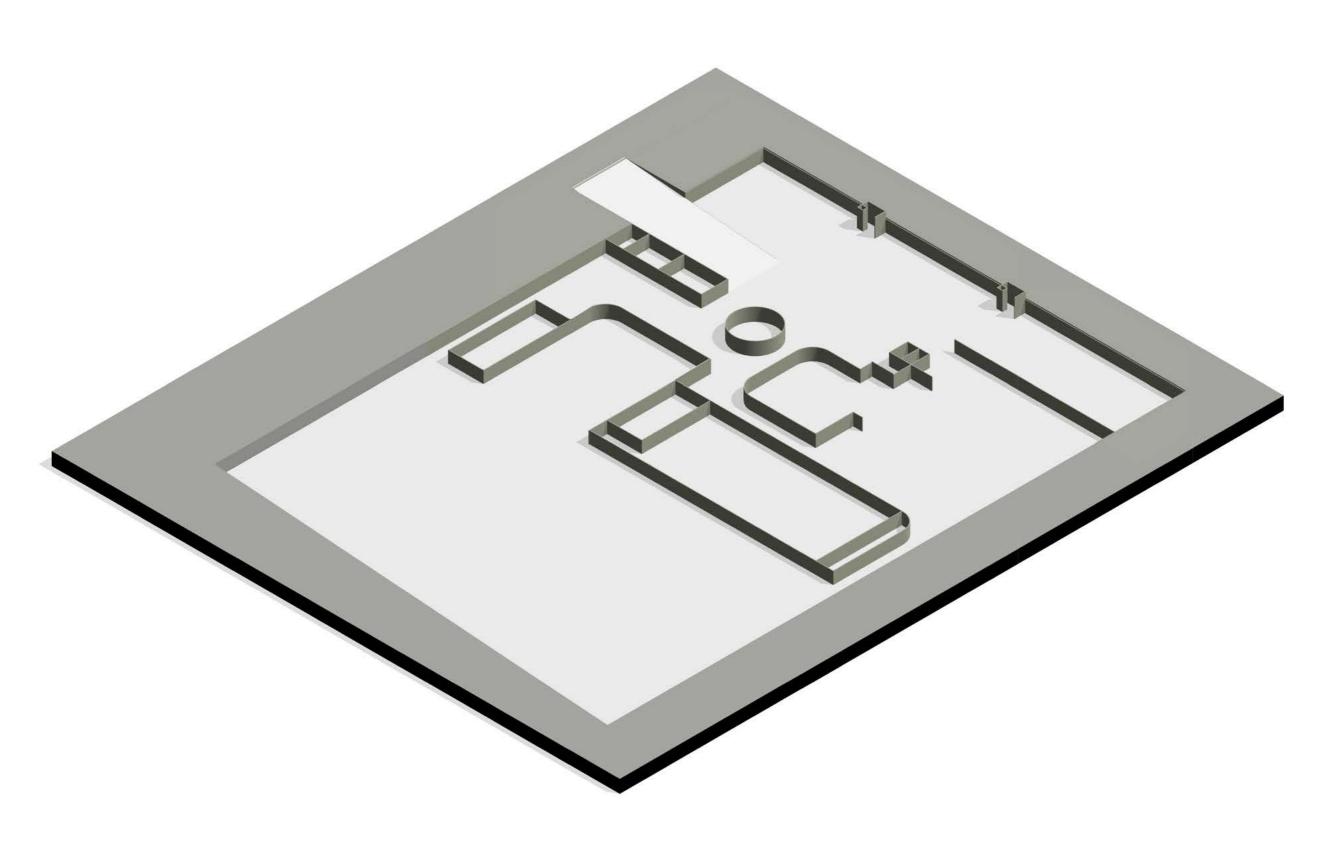
BUILDING SEQUENCE: EXCAVATING



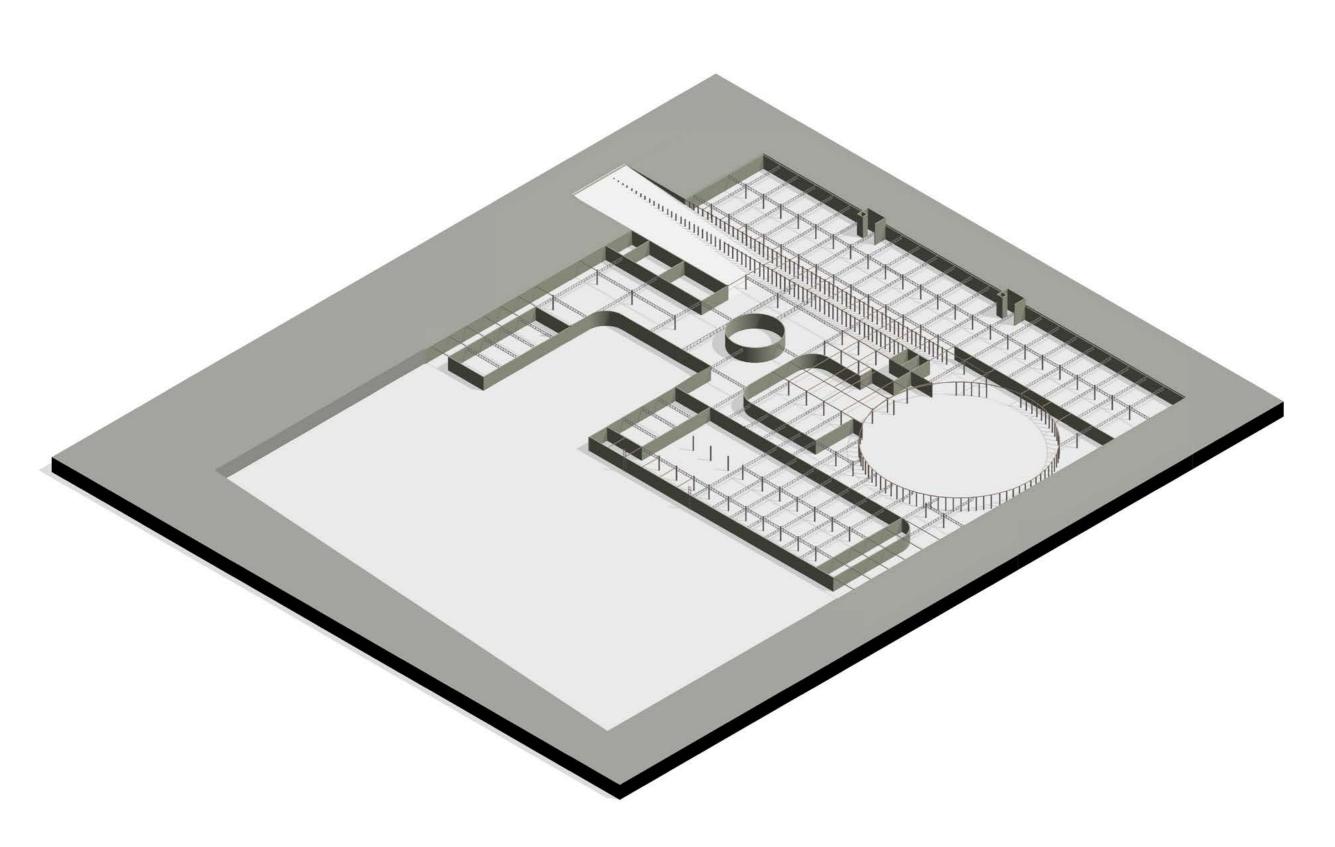
EDGES/RAMP



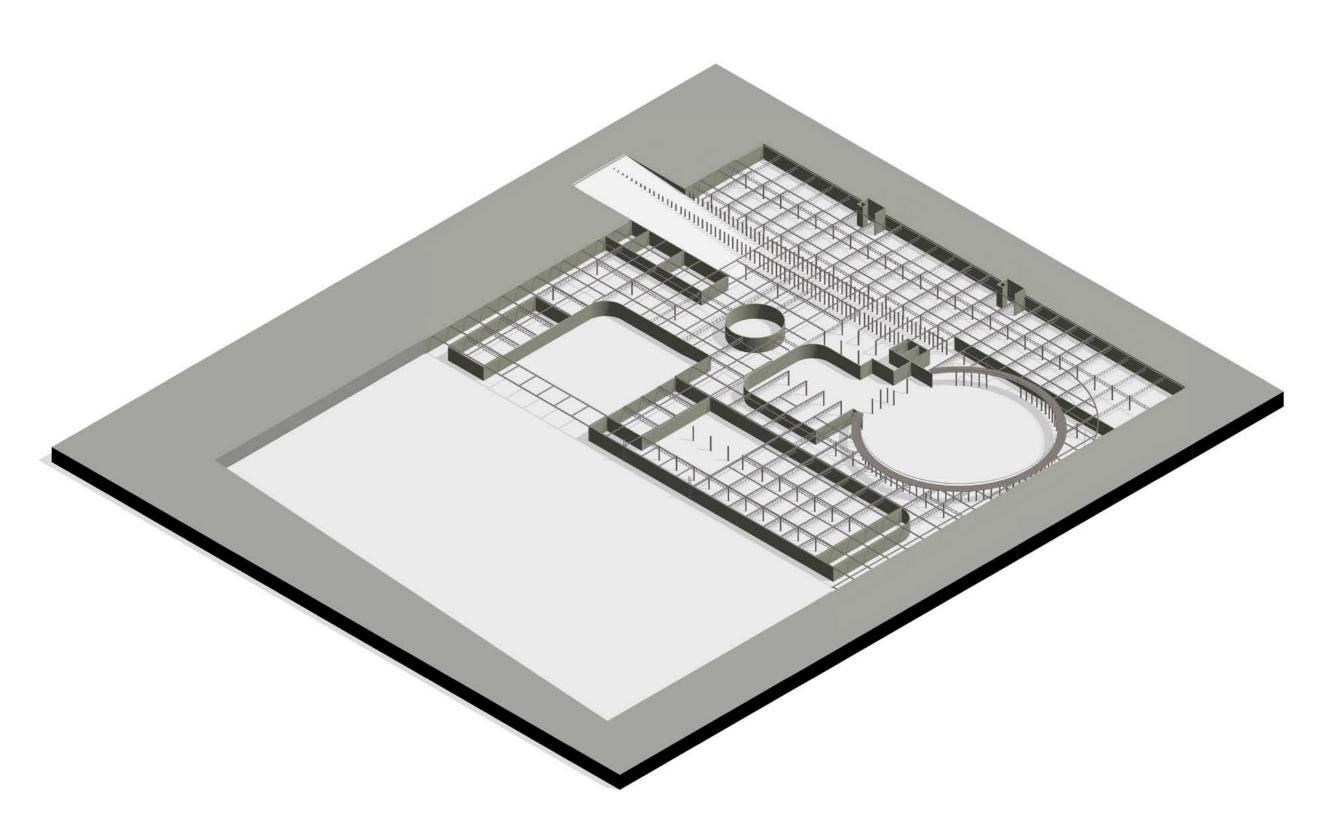
LOAD BEARING WALLS



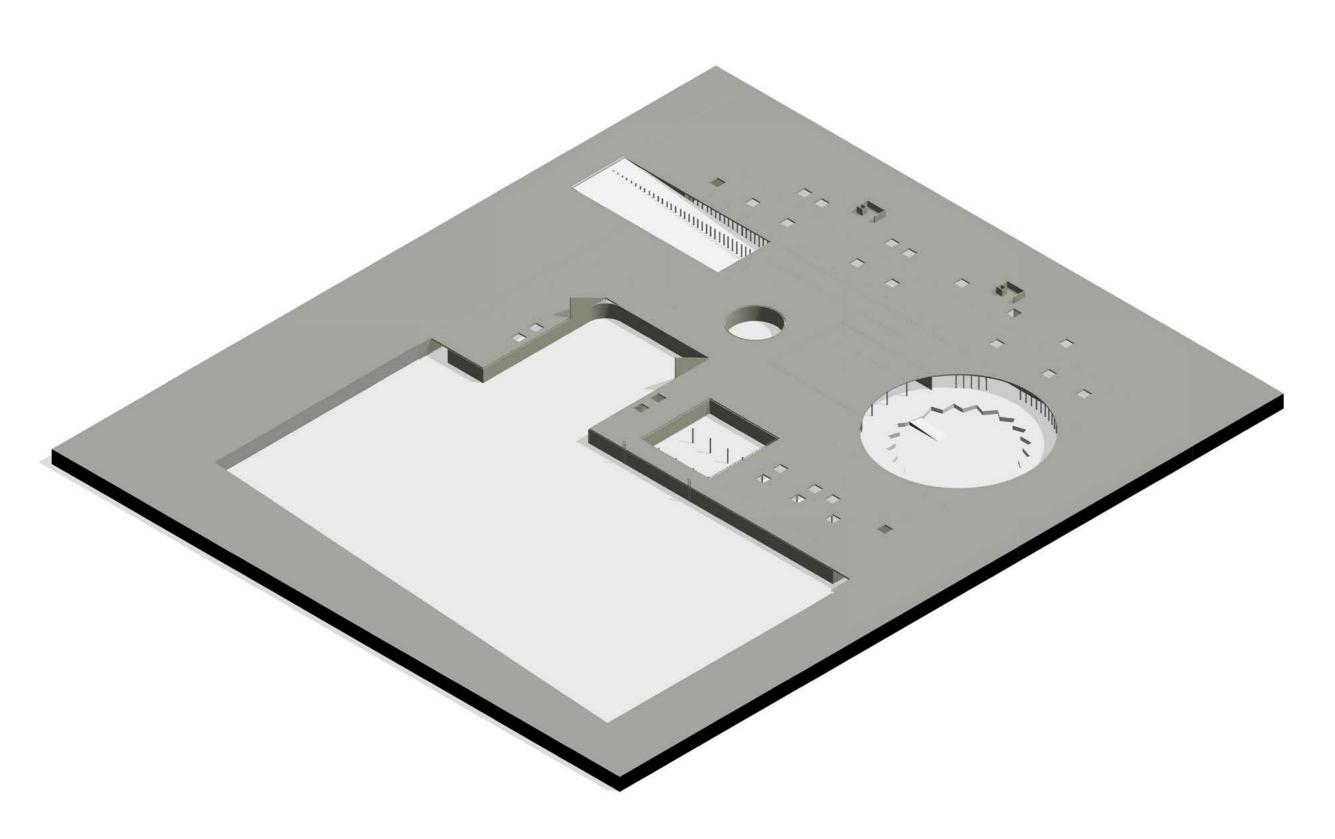
COLUMNS/TRUSSES



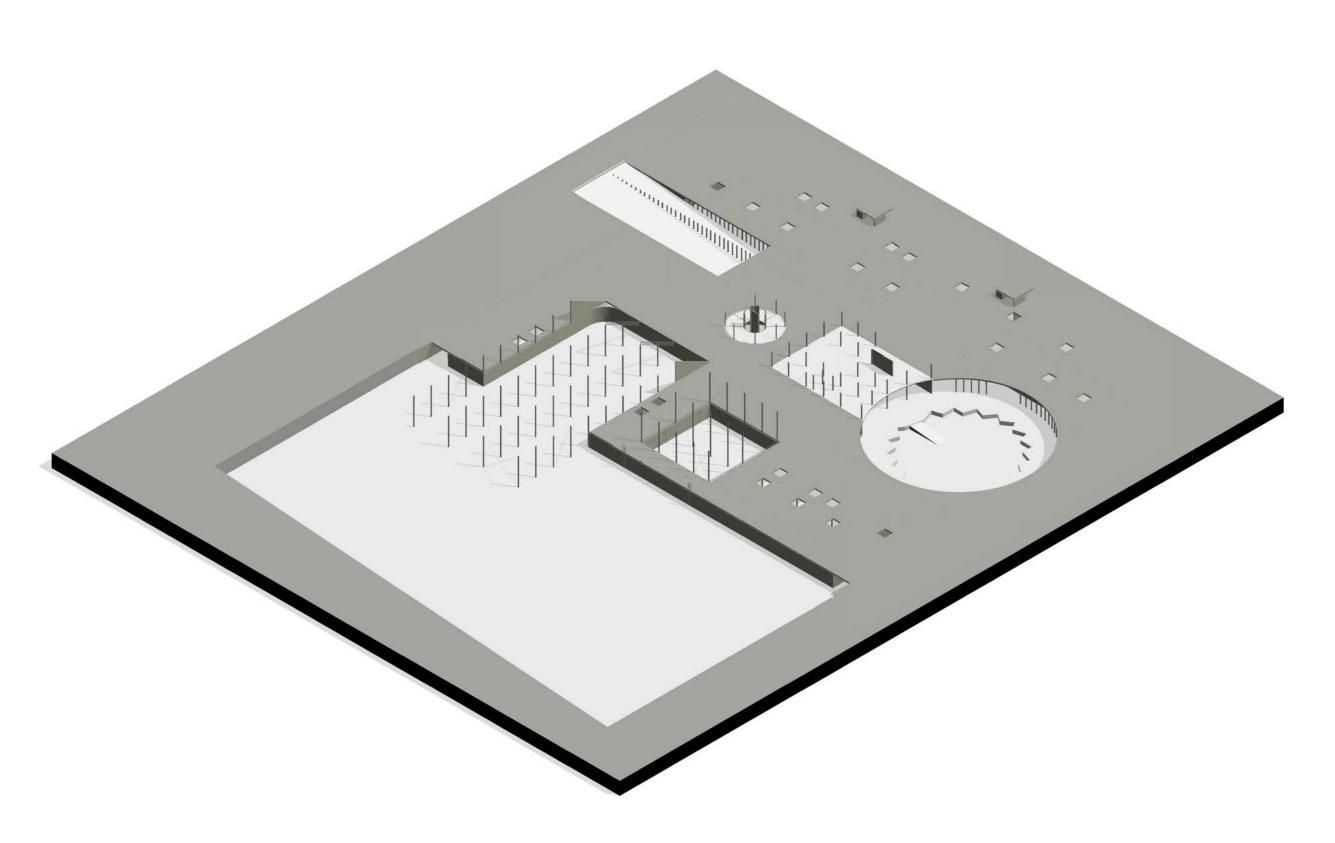
BEAMS



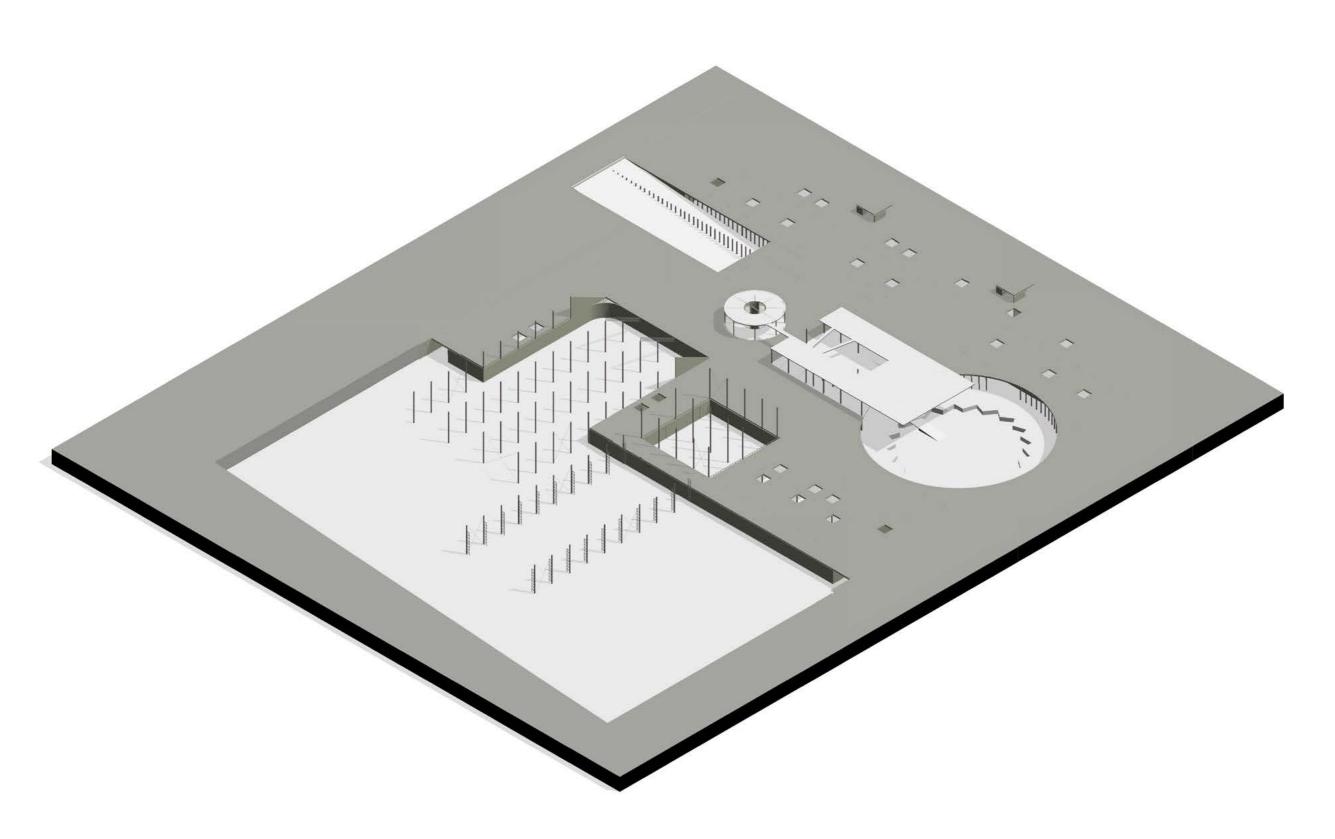
COVERING SLAB



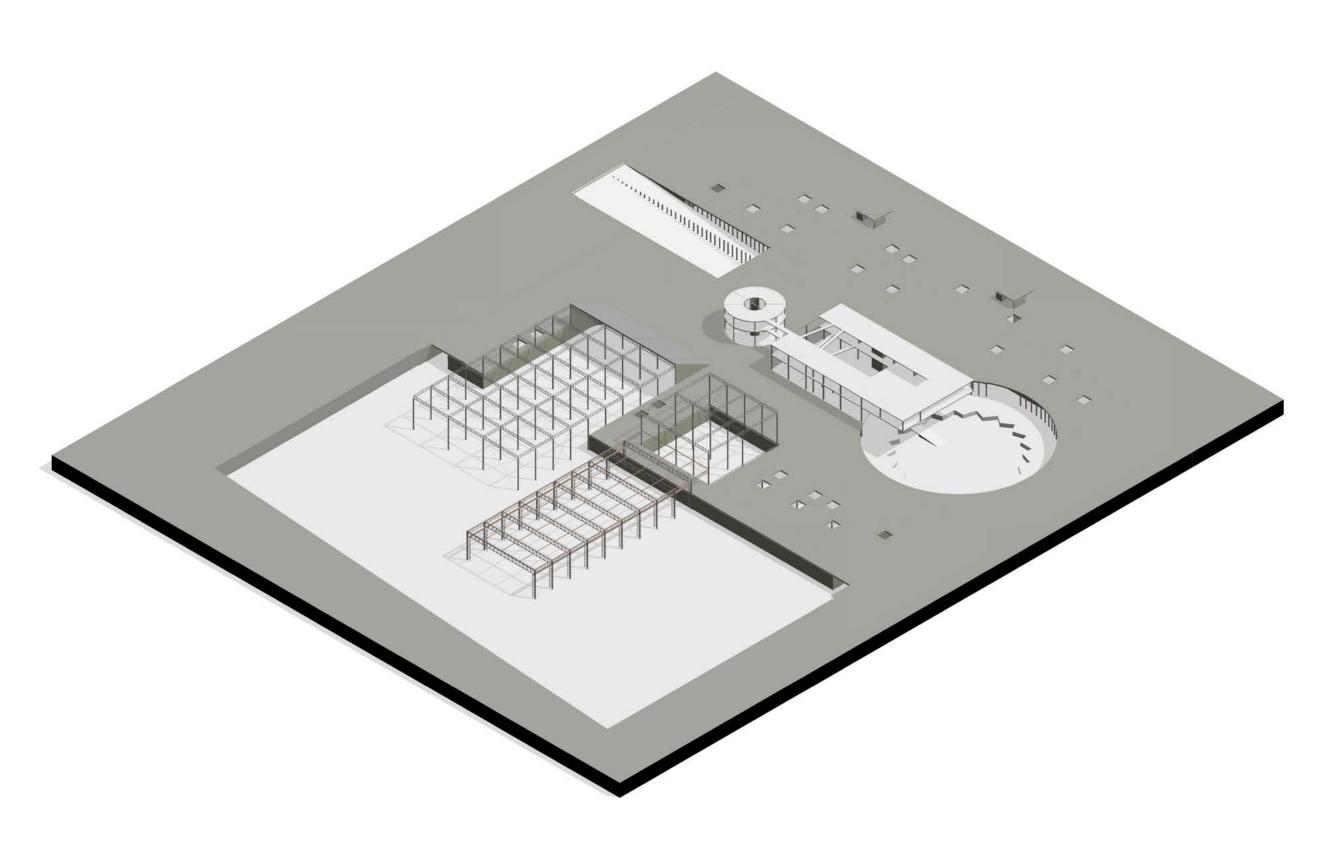
COLUMNS



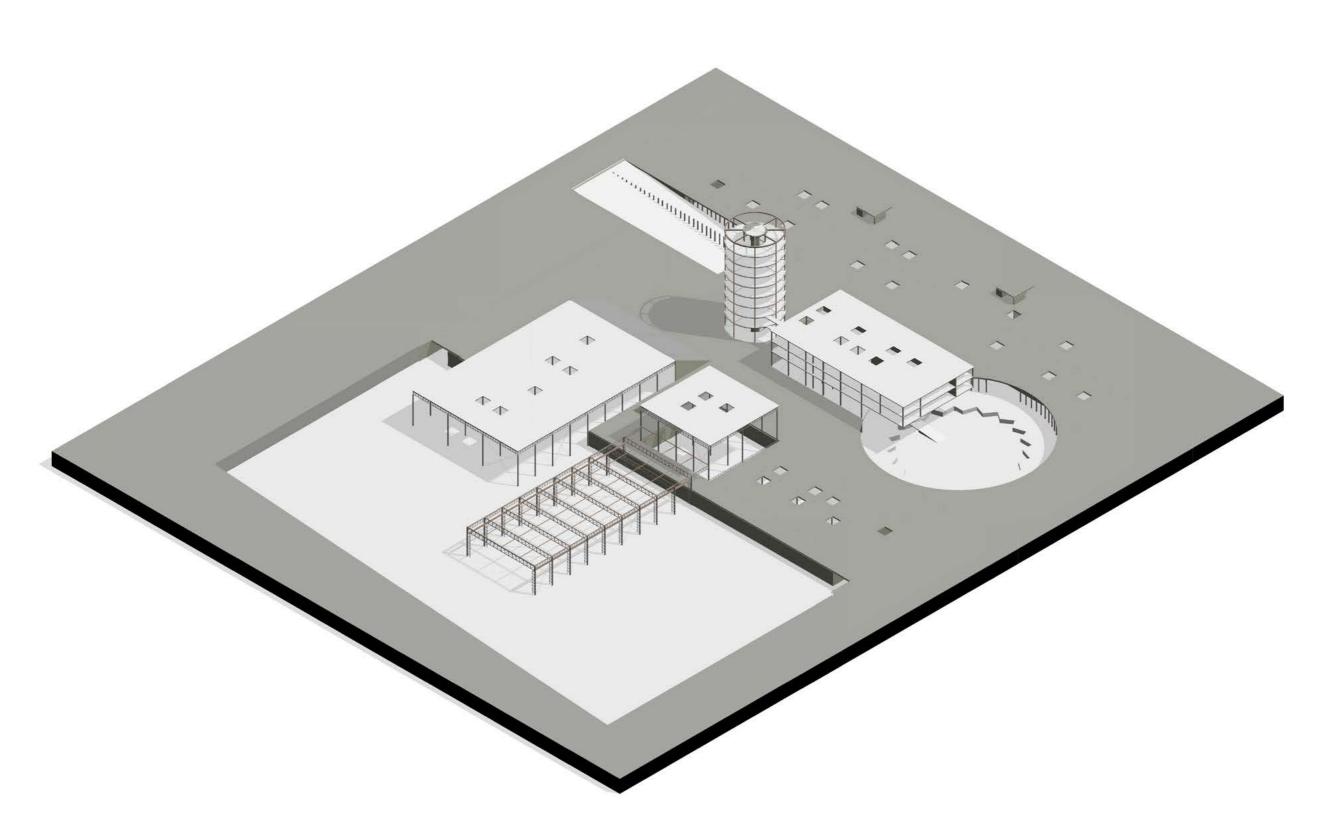
BEAMS/SLABS



BEAMS/TRUSSES

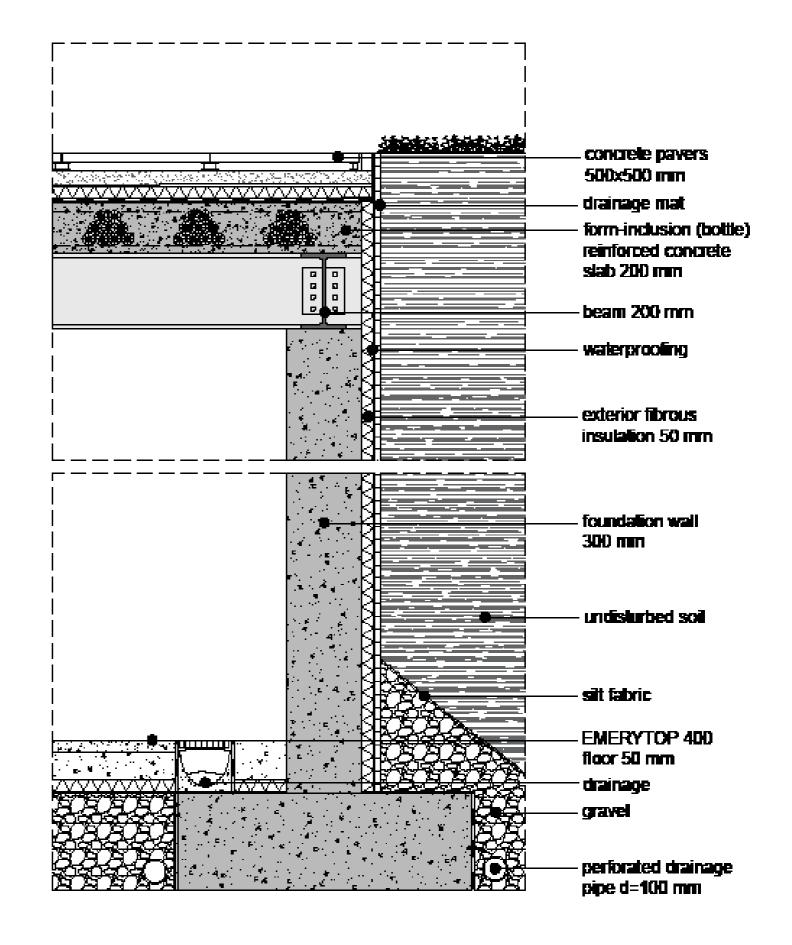


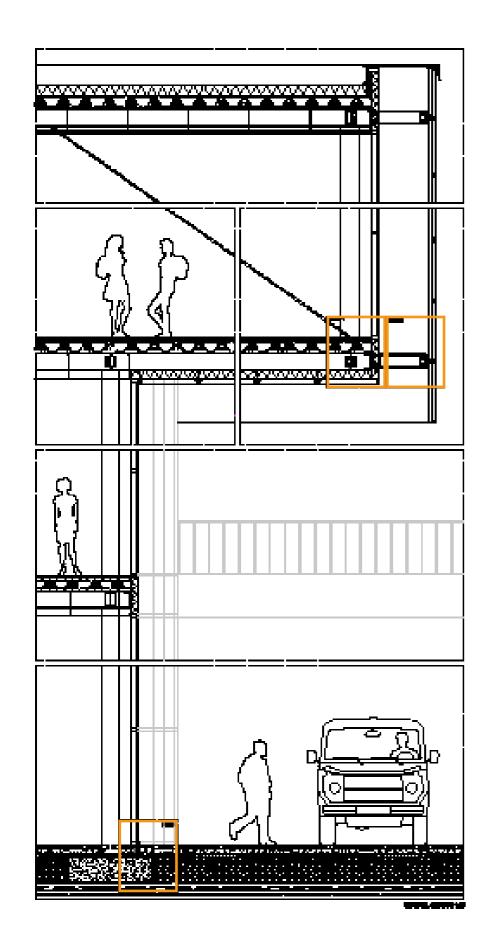
SLABS



DETAIL

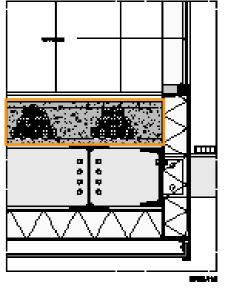
ditch - undisturbed soil joint



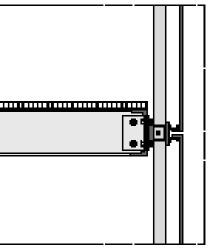


DETAILS

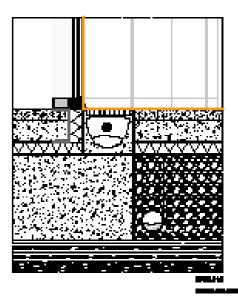
form-inclusion reinforced concrete slabs



facade support detail

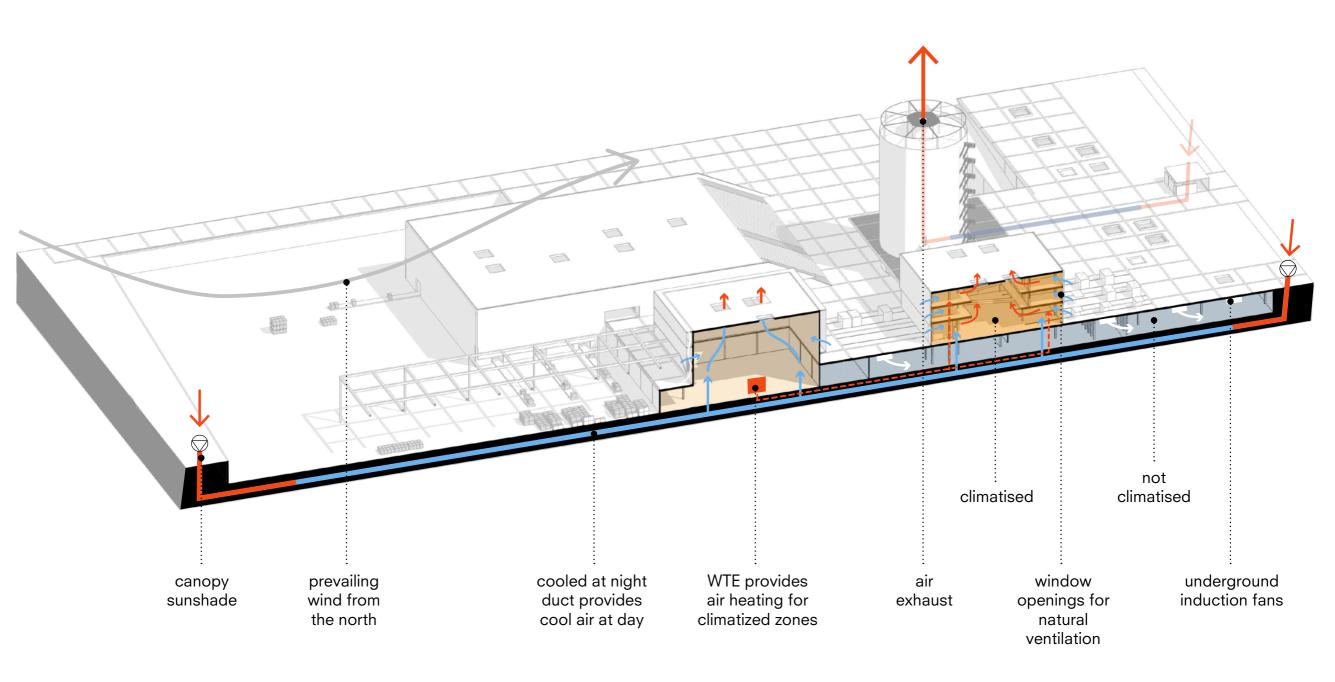


ditch floor - facade joint

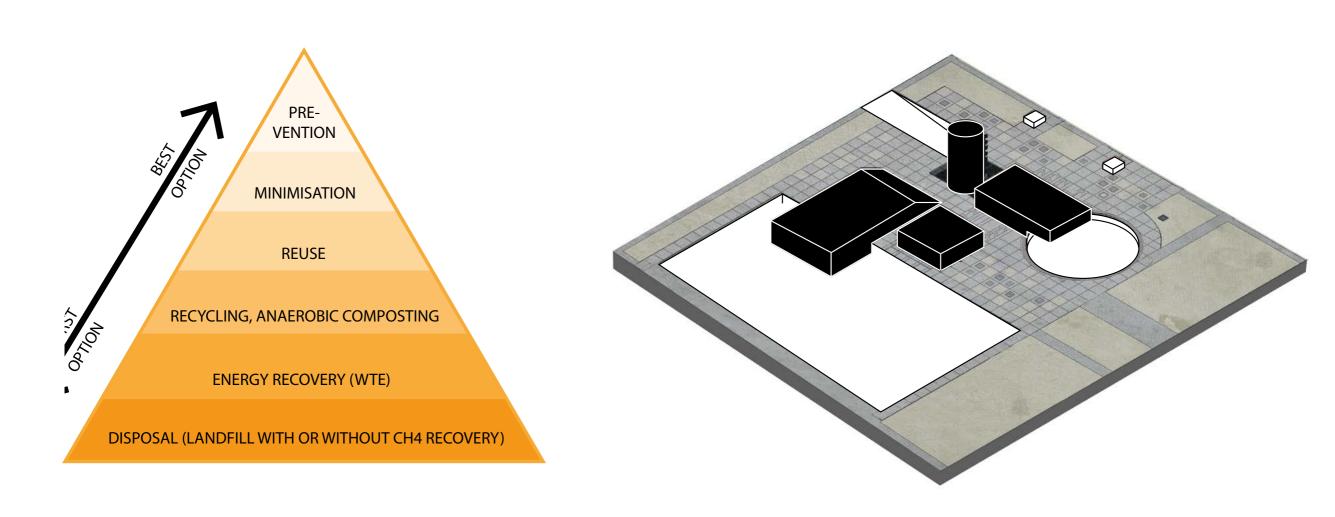


CLIMATE outdoor stair shade from south sun perforated steel facade canopy sunshade canopy sunshade roof thermal windows for mass shading natural light

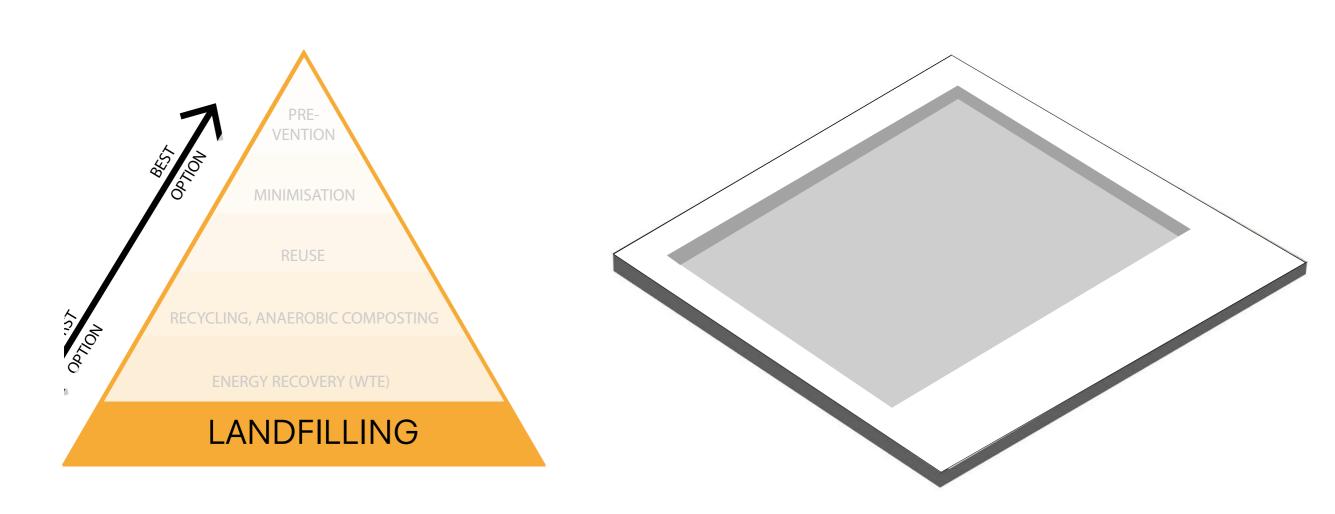
CLIMATE

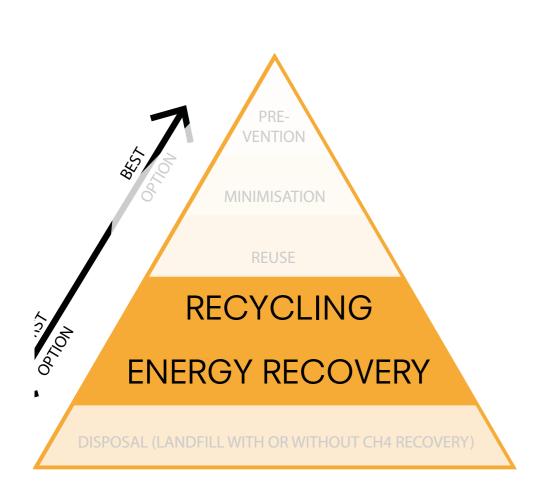


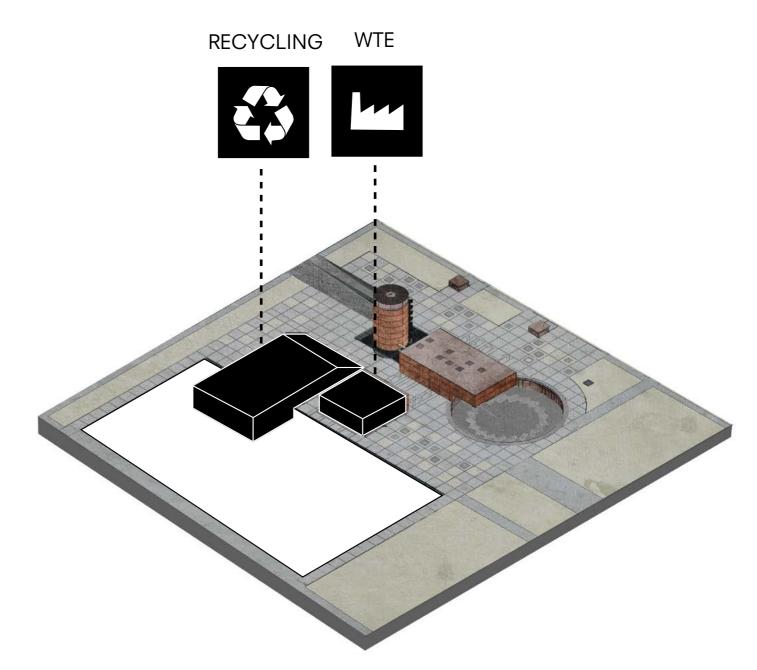
BUILDING CONCEPT



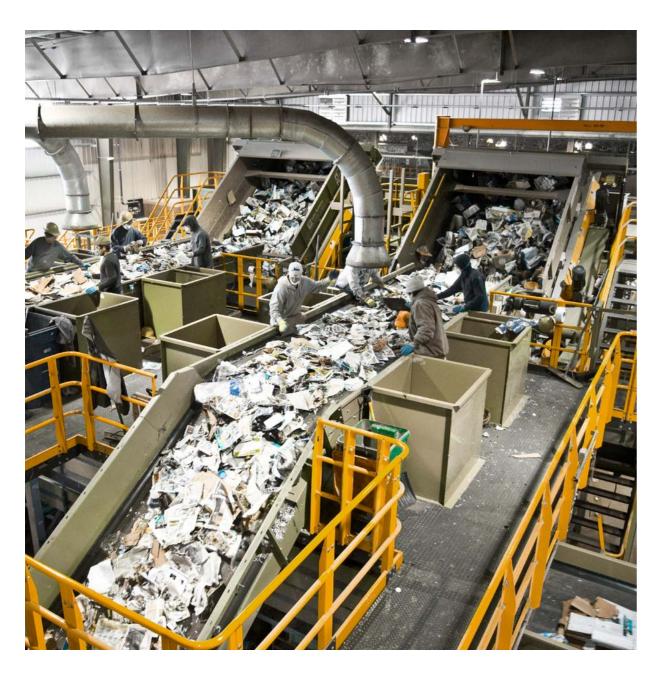
LANDFILL MINING





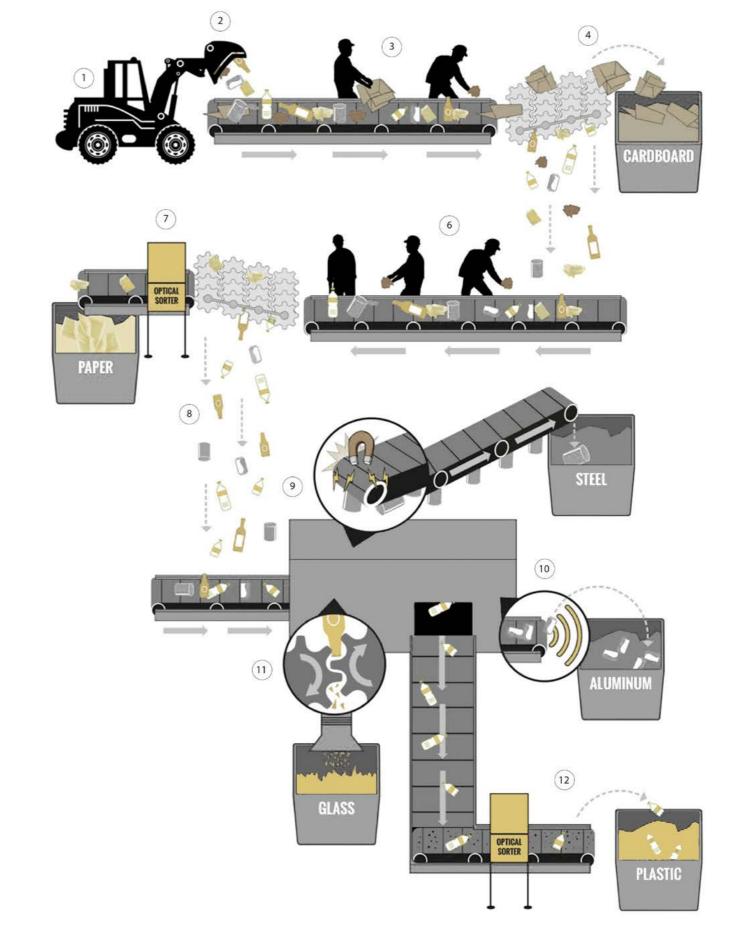


WASTE SORTING FACILITY (MRF)





WASTE SORTING PROCESS



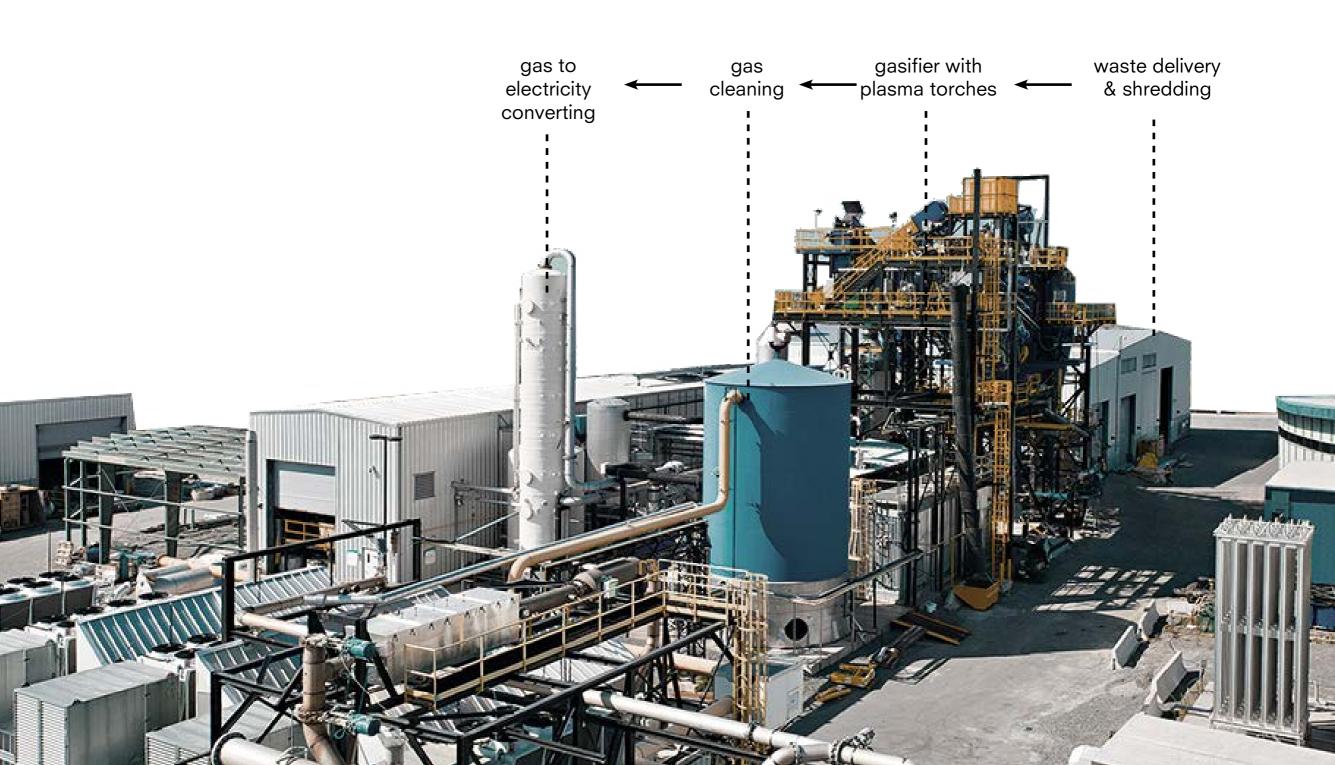
WASTE-TO-ENERGY (WTE)

WASTE AS RENEWABLE RESOURCE

"WTE facilities generate ... **clean** electricity. It is the only **renewable** resource that is **constant** and **reliable** as its load power operates **24 hours/day, 365 days/year**. "



PLASMA GASIFICATION

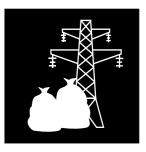


PLASMA GASIFICATION

MISCONCEPTIONS









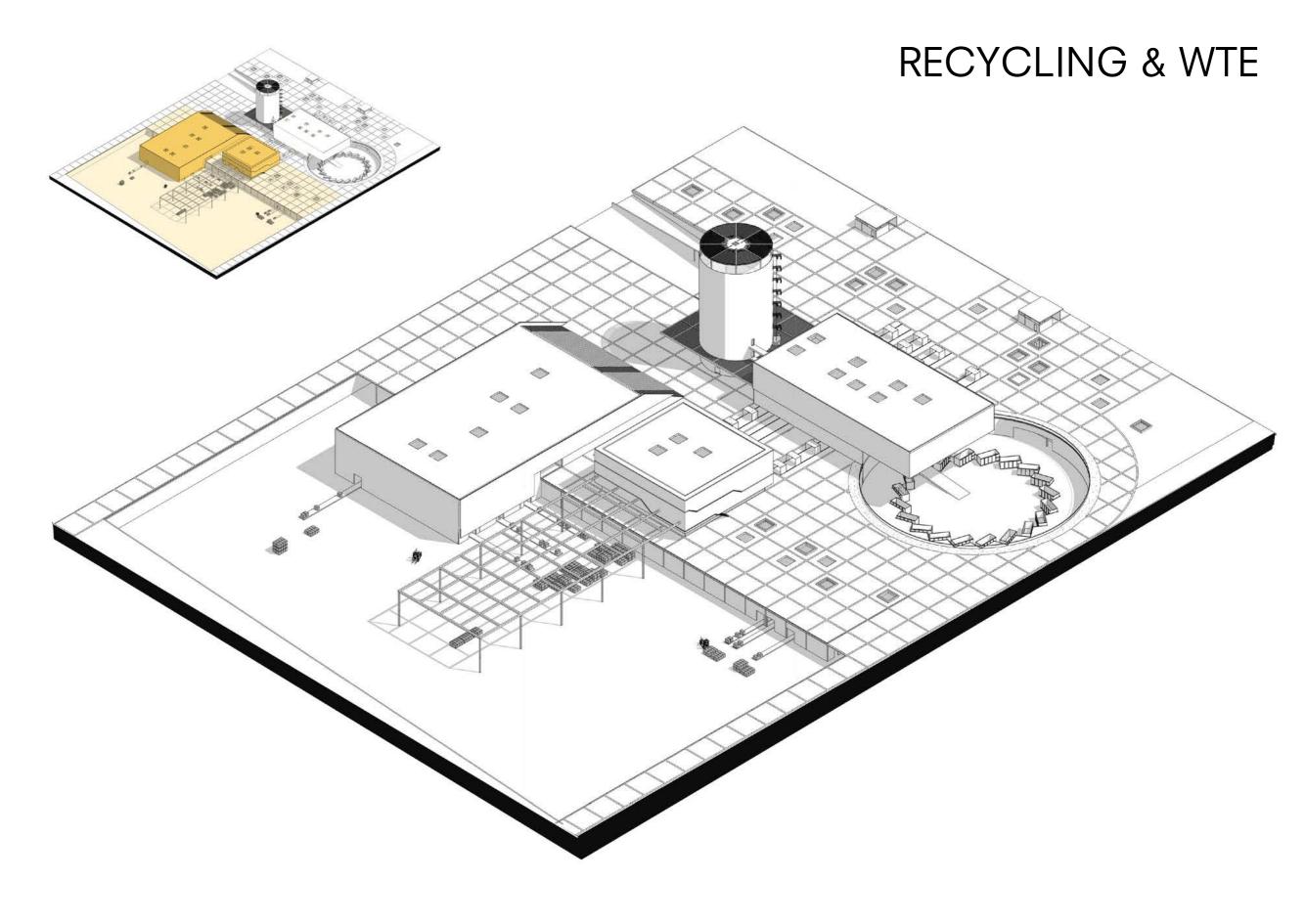
POLLUTION

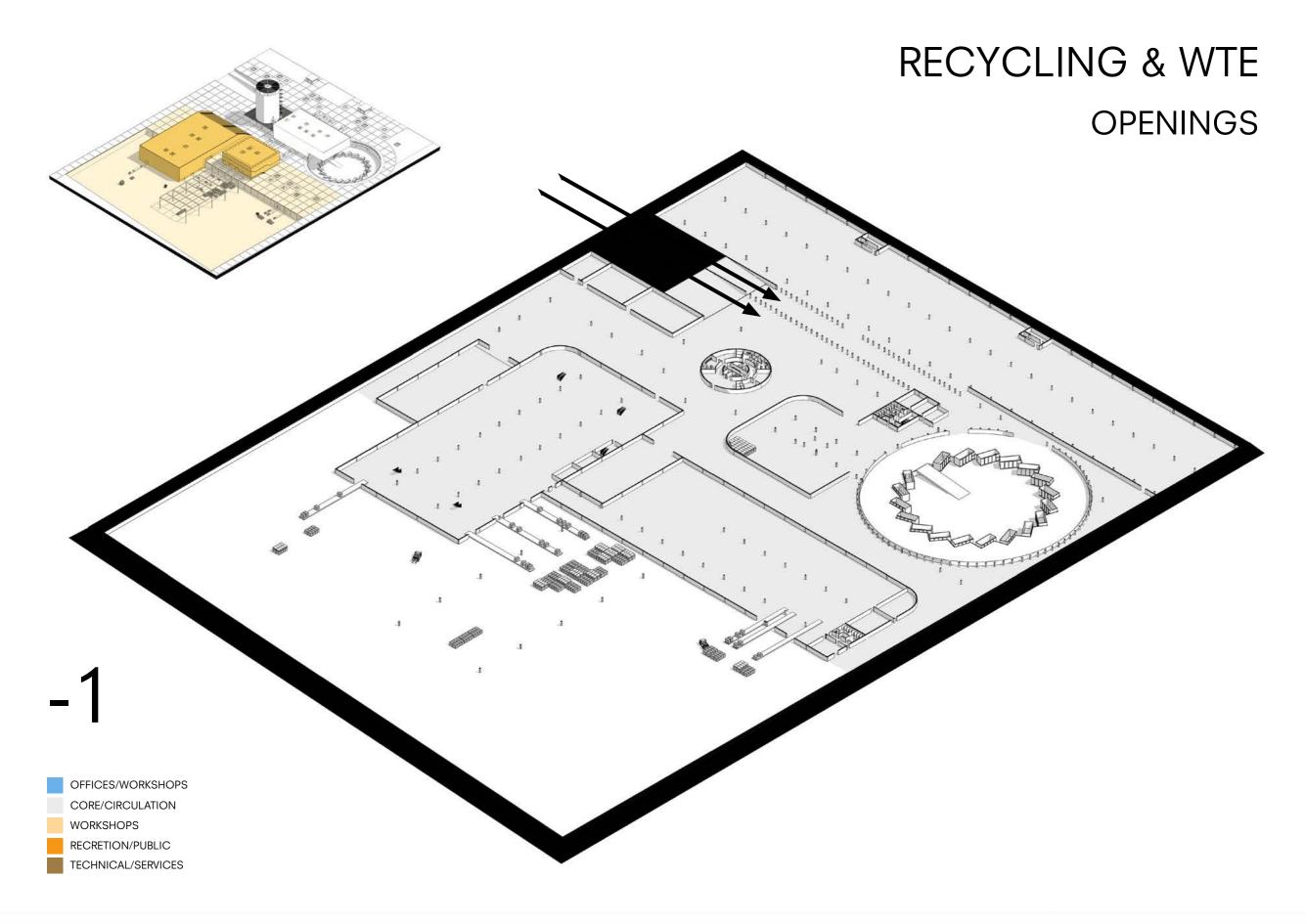
ODORS

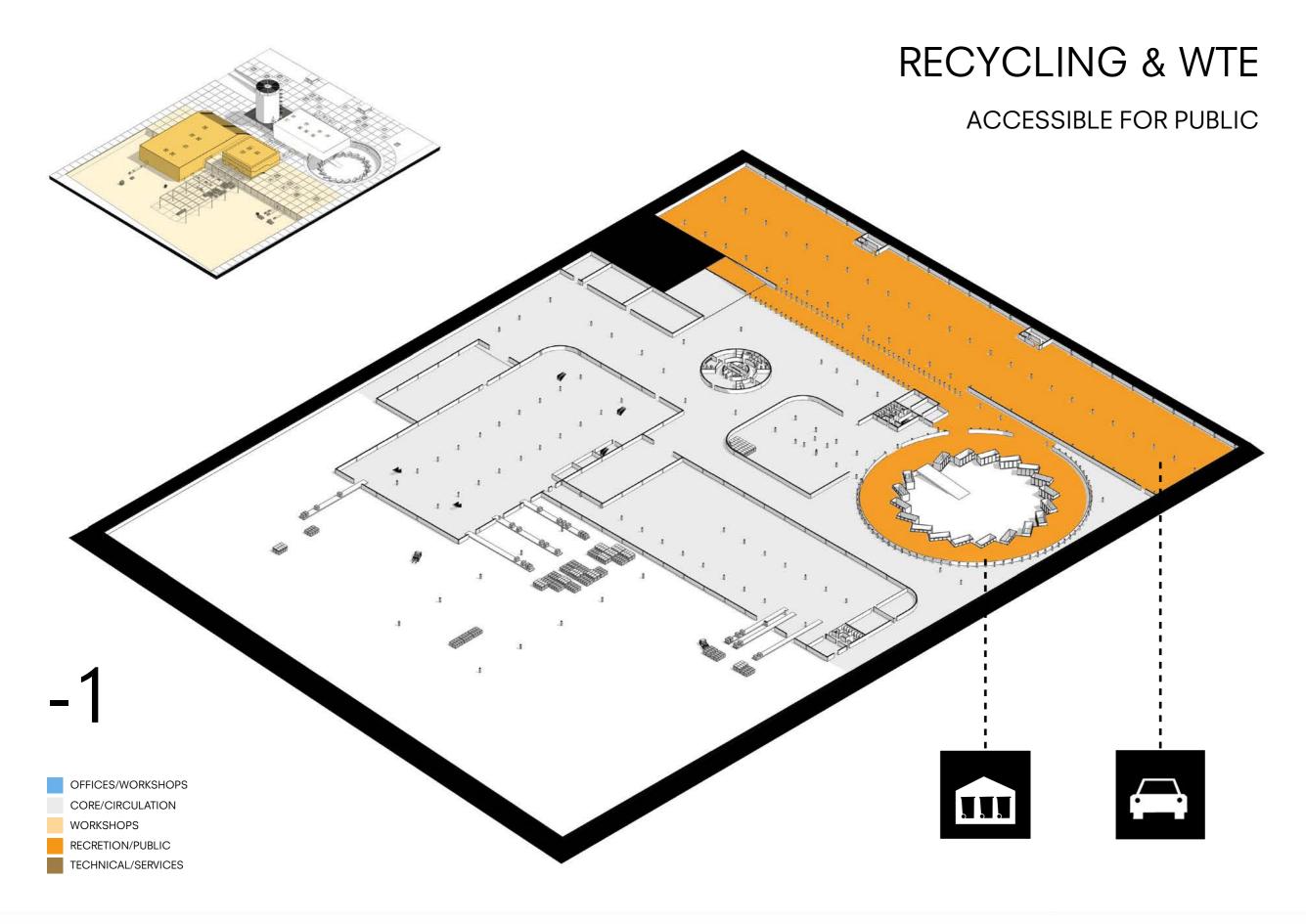
'DIRTY ENERGY'

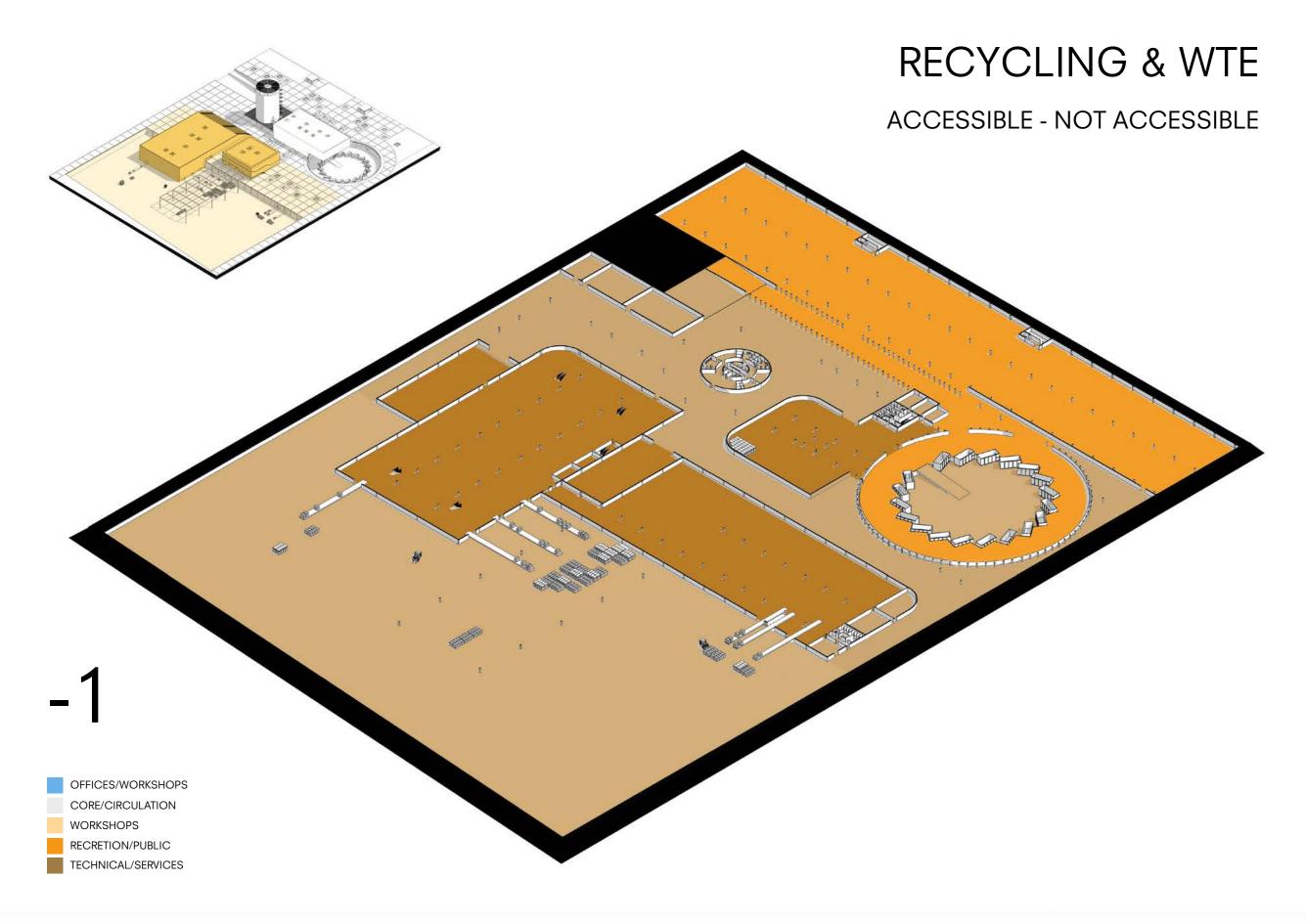
HEALTH RISK

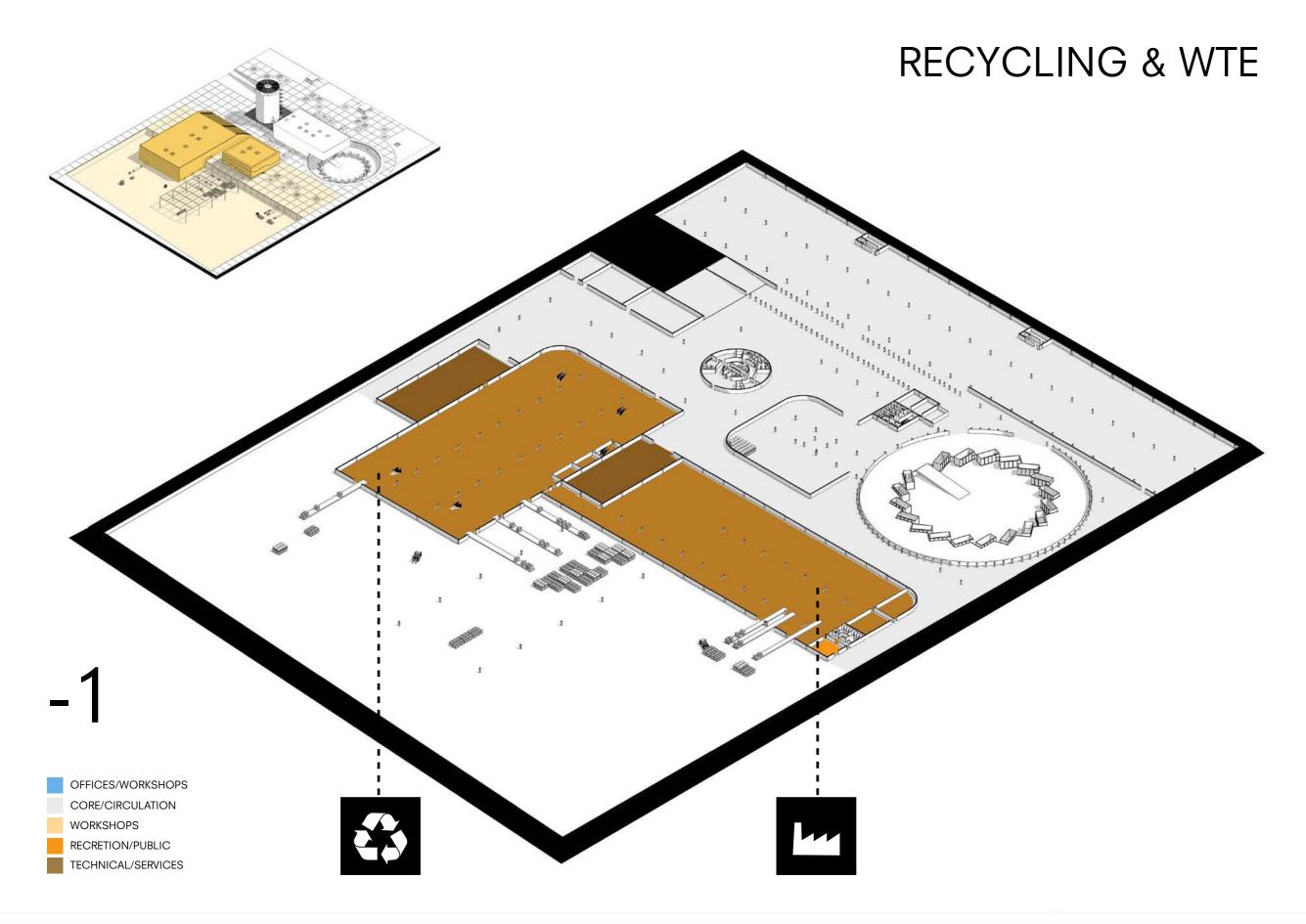


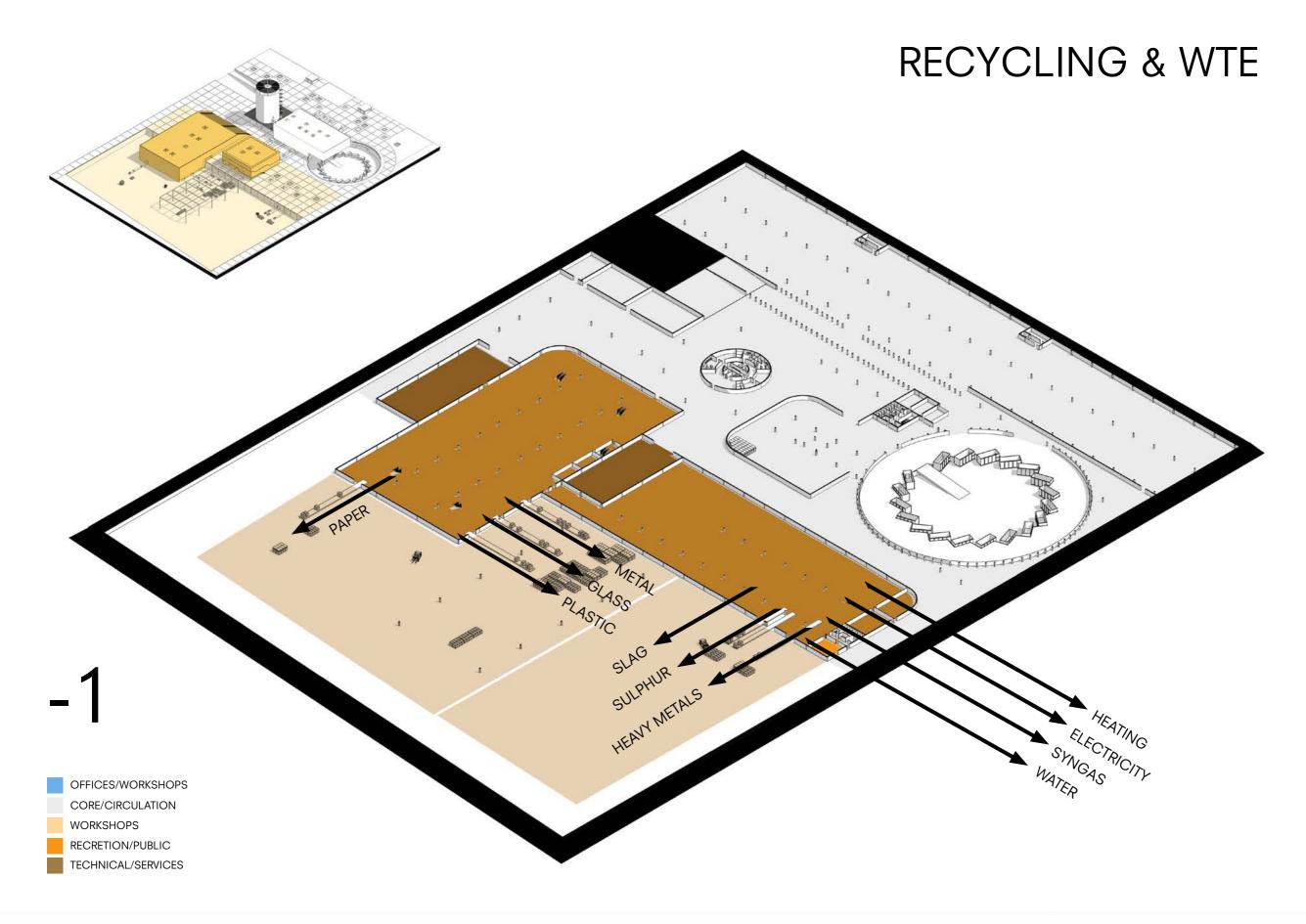


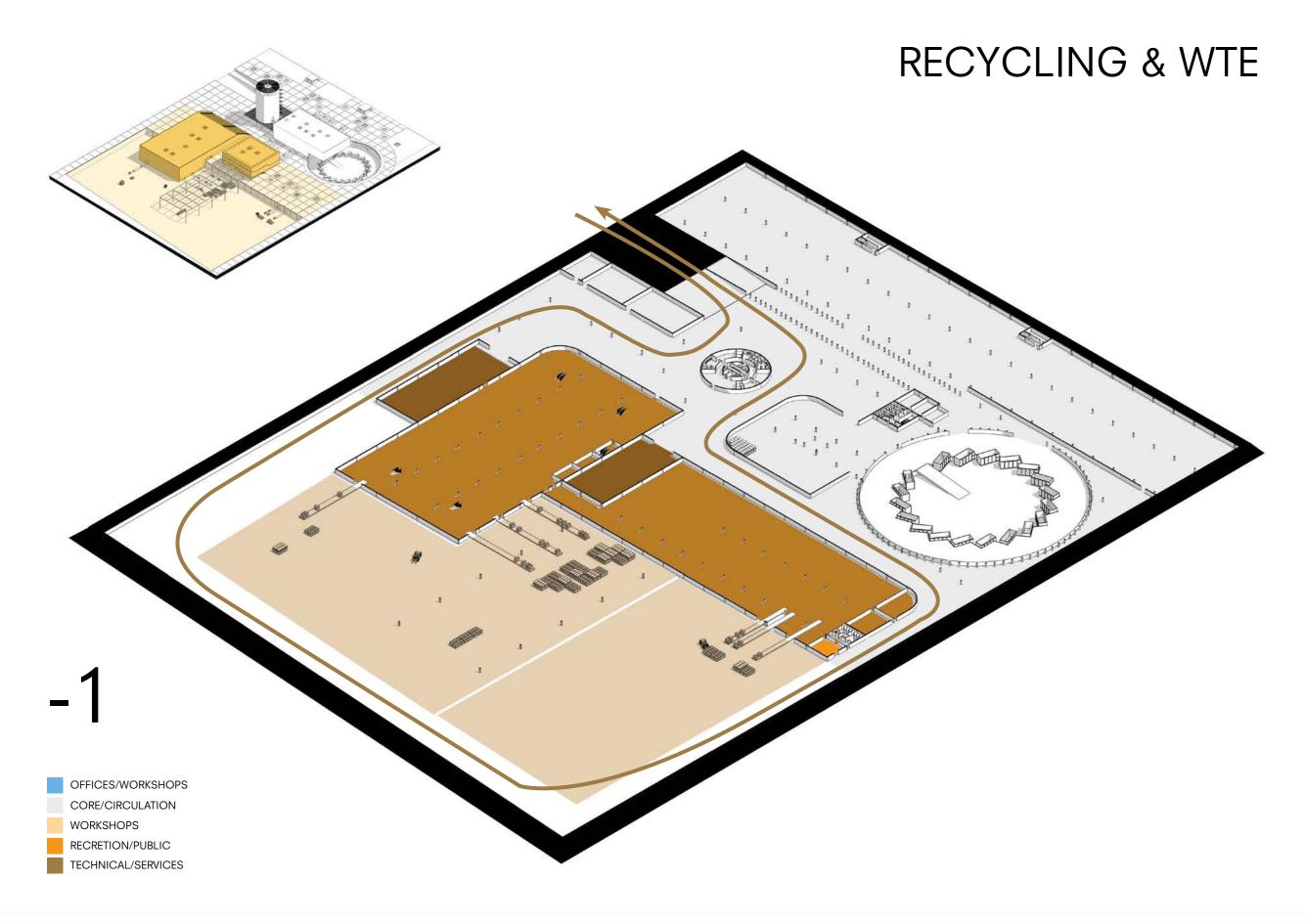


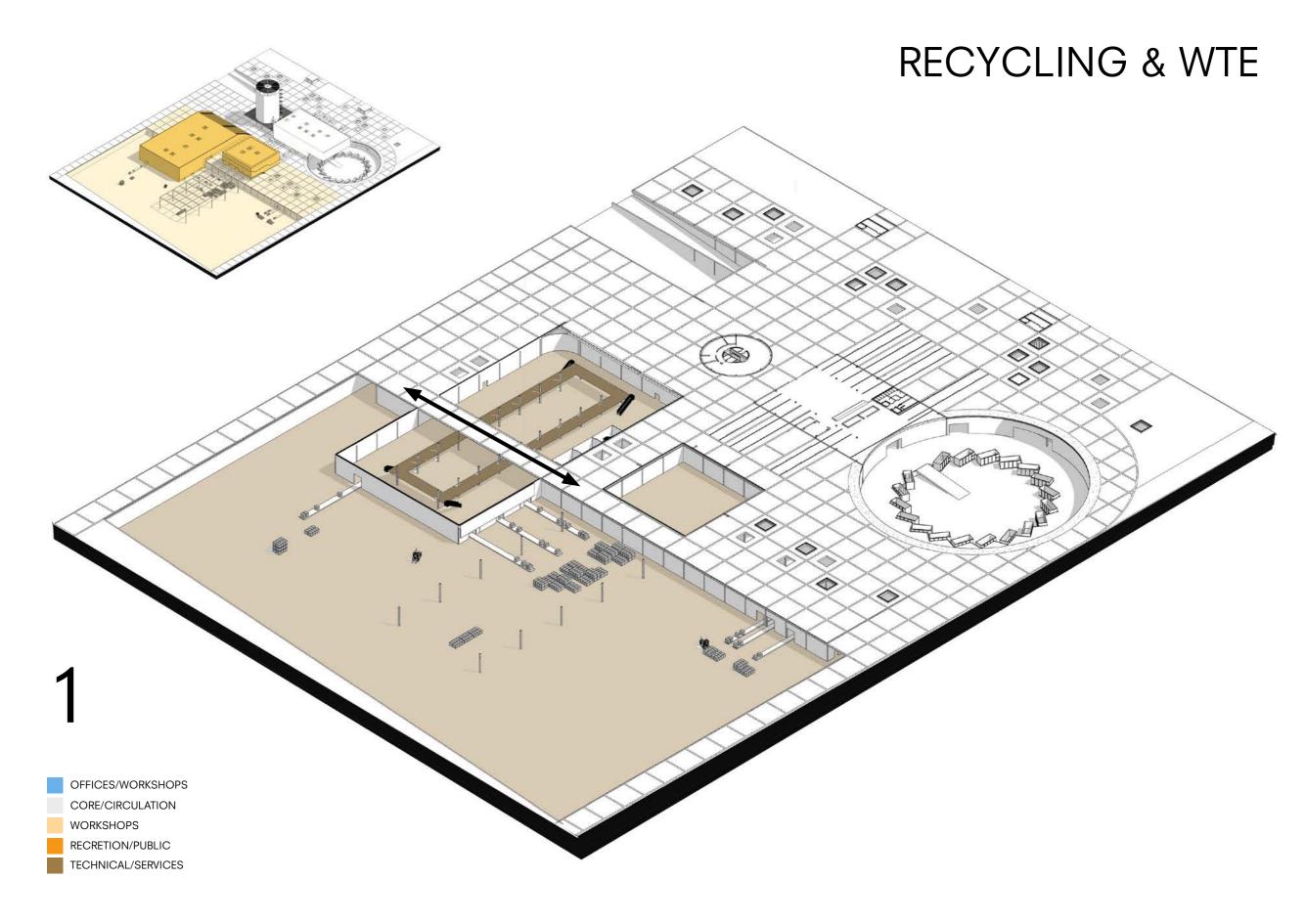


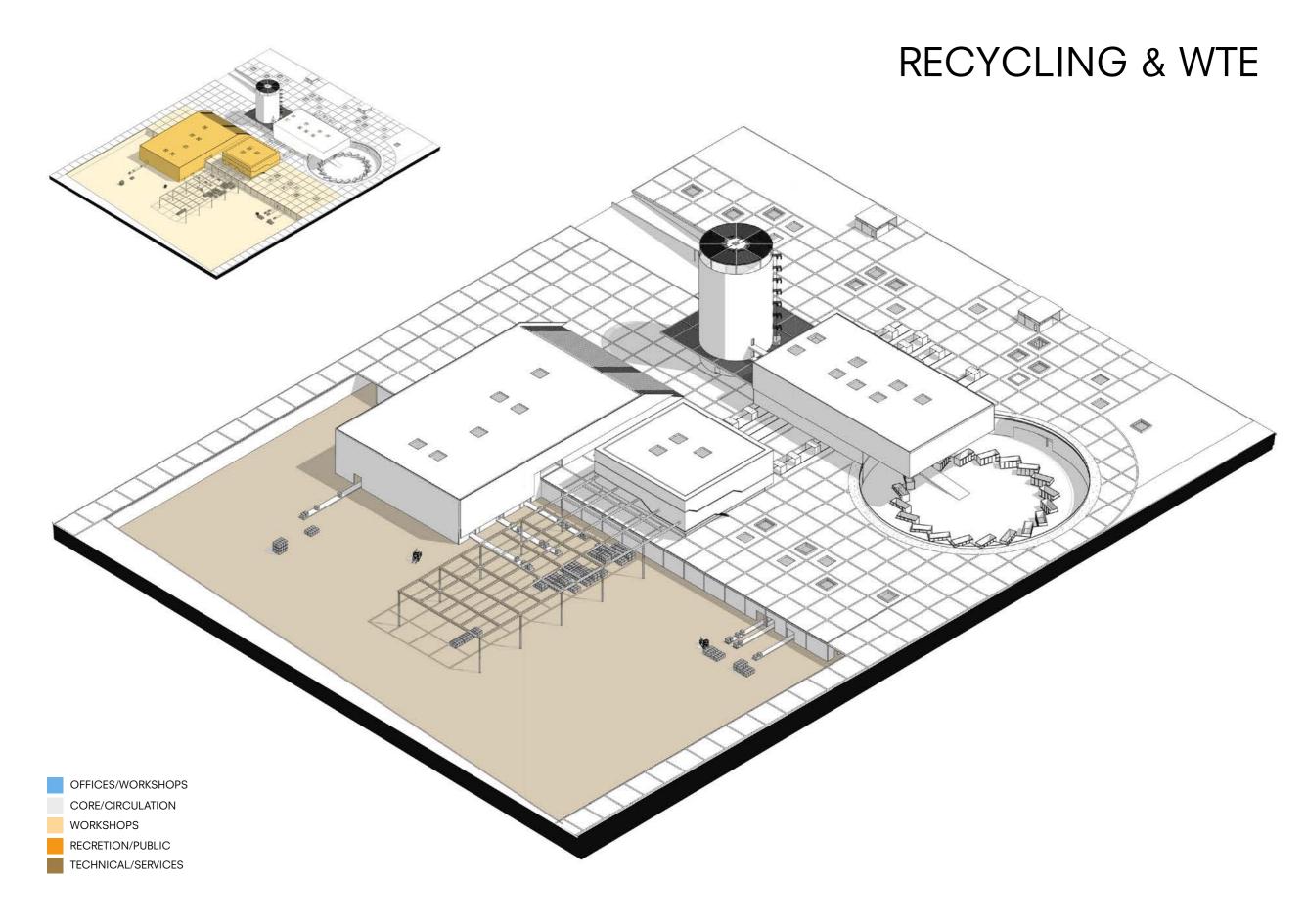












UNDERGROUND MATERIALIZATION



PERFORATED CORTEN
STEEL PANELS

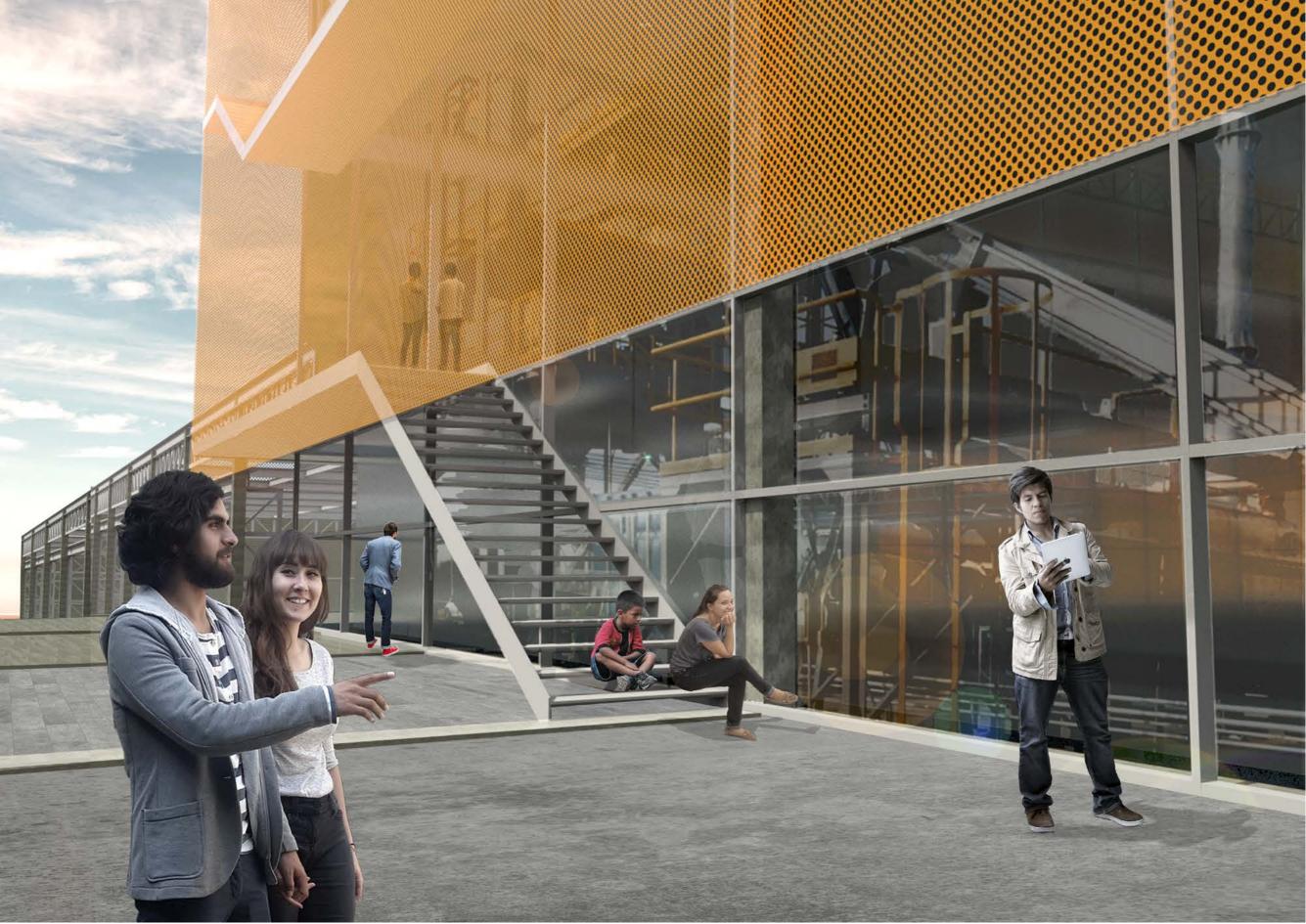
PERFORATED CORTEN
STEEL PANELS

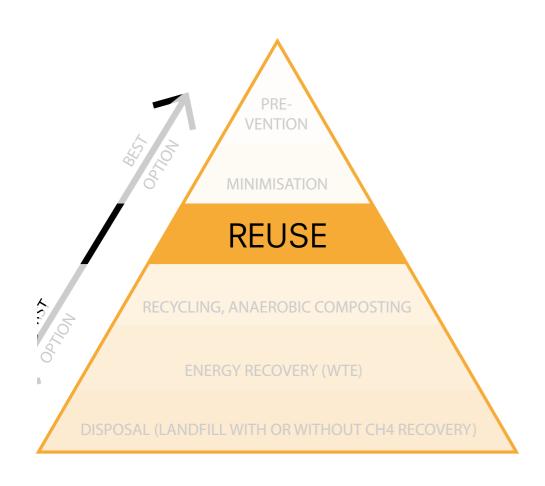
WHITE CONCRETE WITH STONE, METAL AND GLASS FRAGMENTS

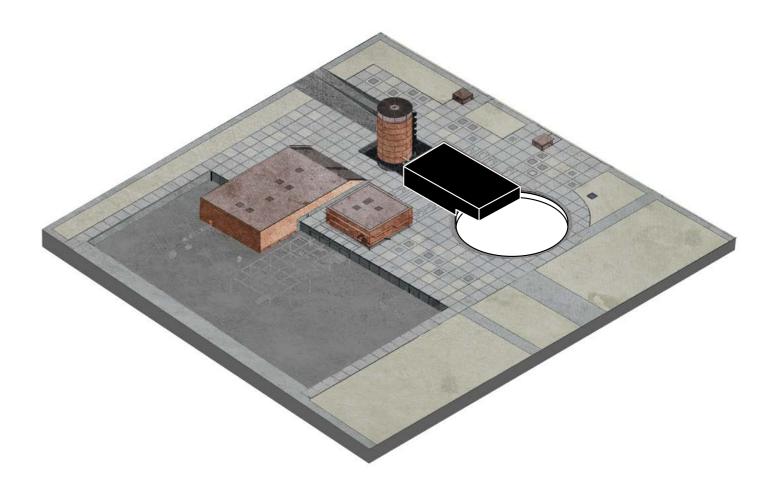
CONCRETE FLOOR WITH EPOXY FINISH

AMERYTOP 400 FLOOR











REUSE CENTER













REUSE CENTER



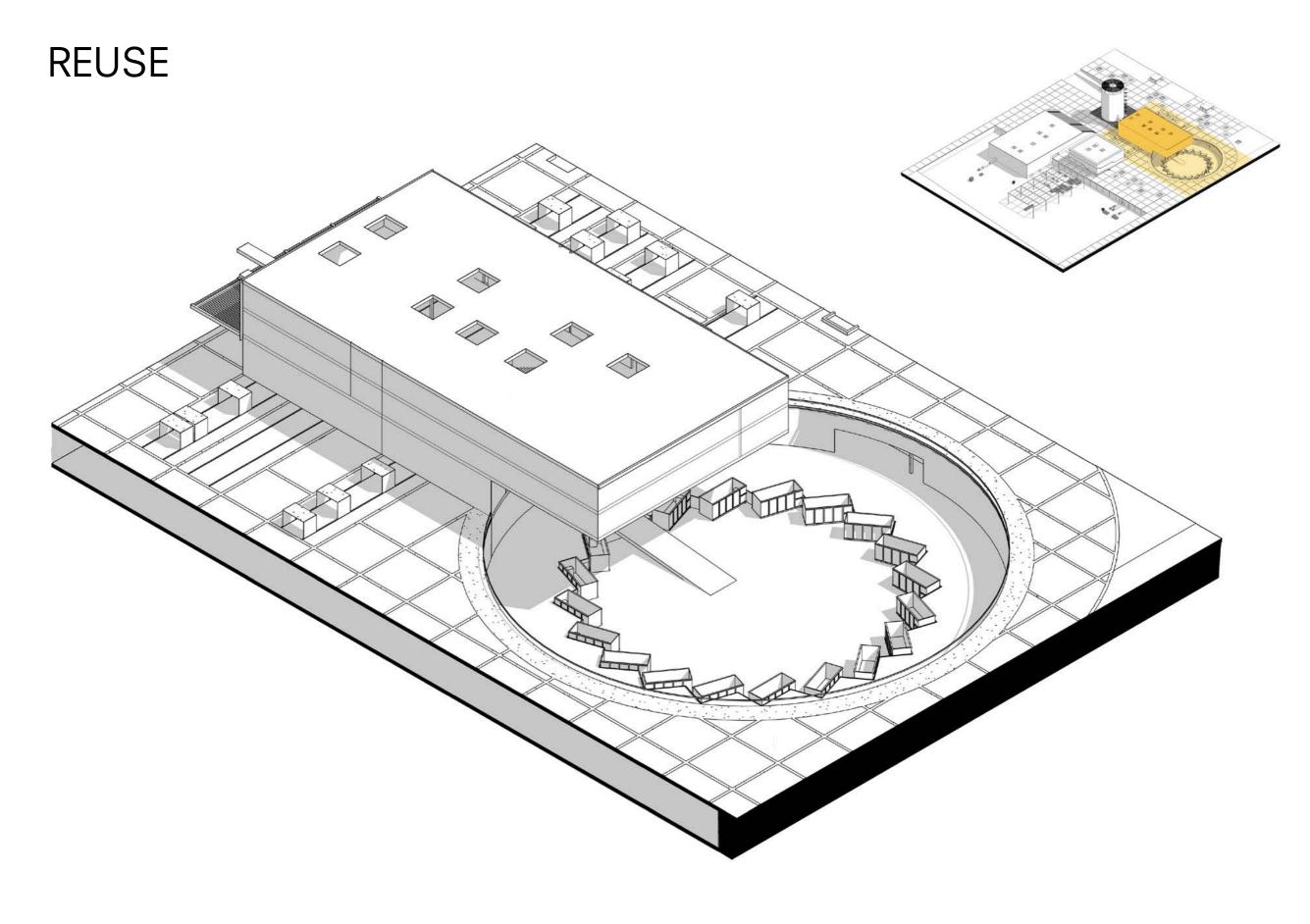




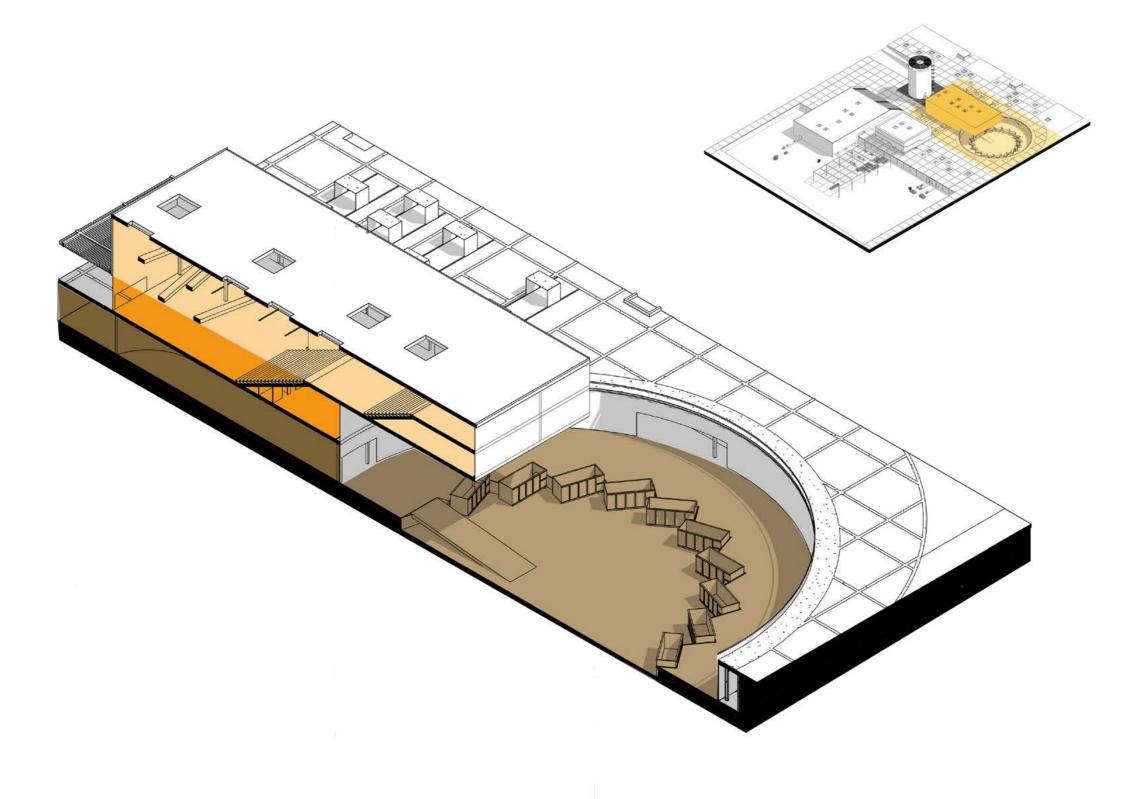




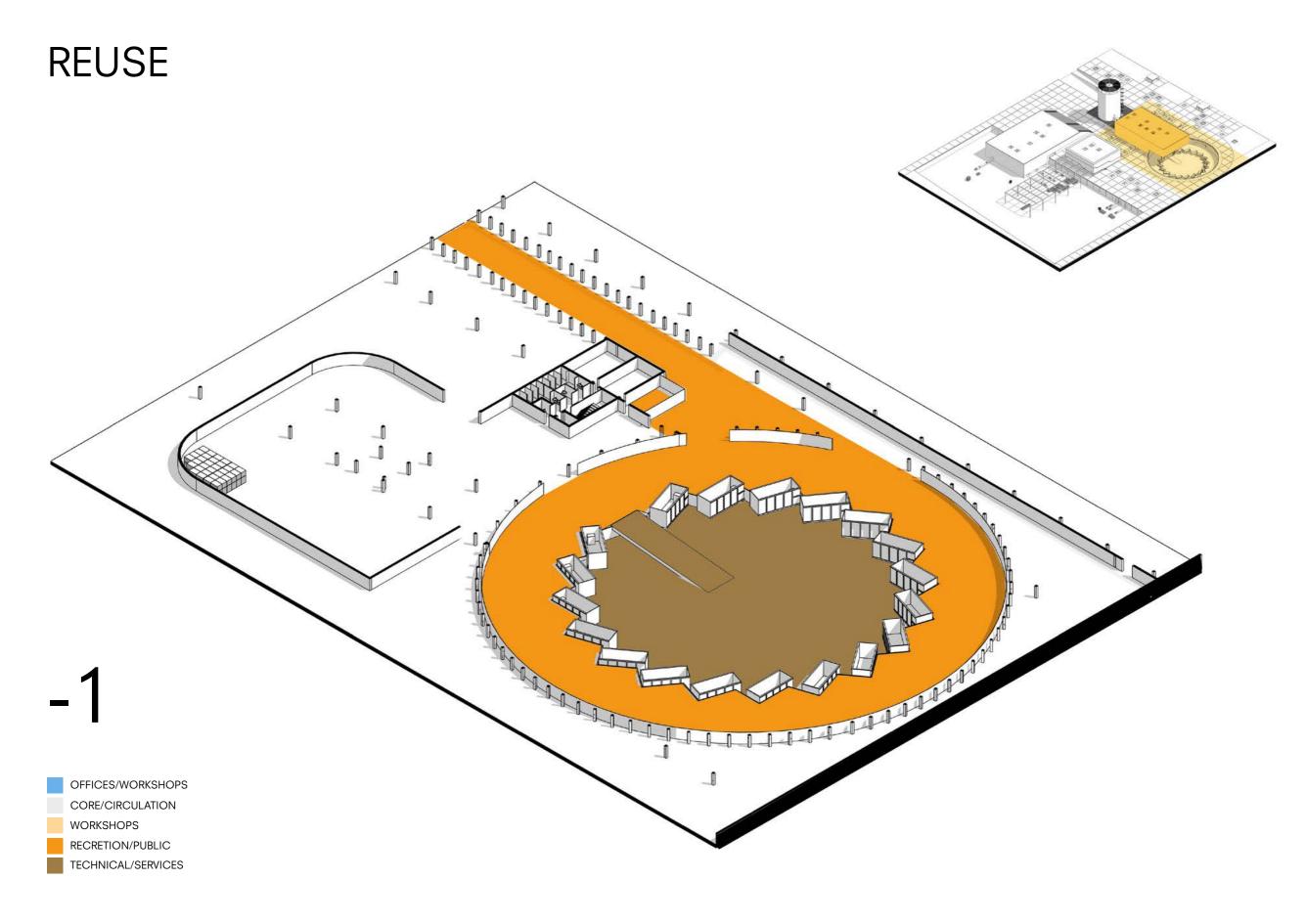


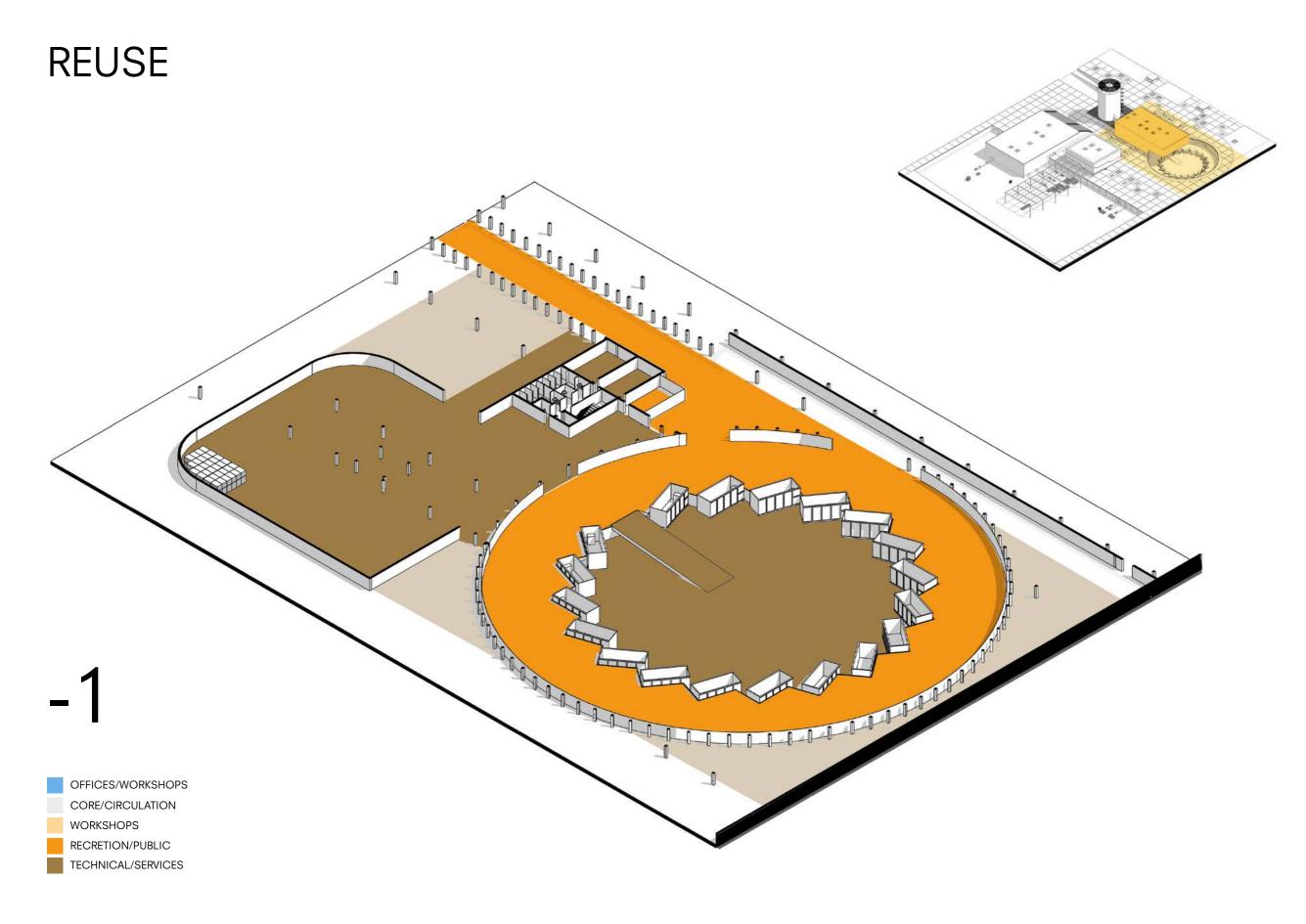


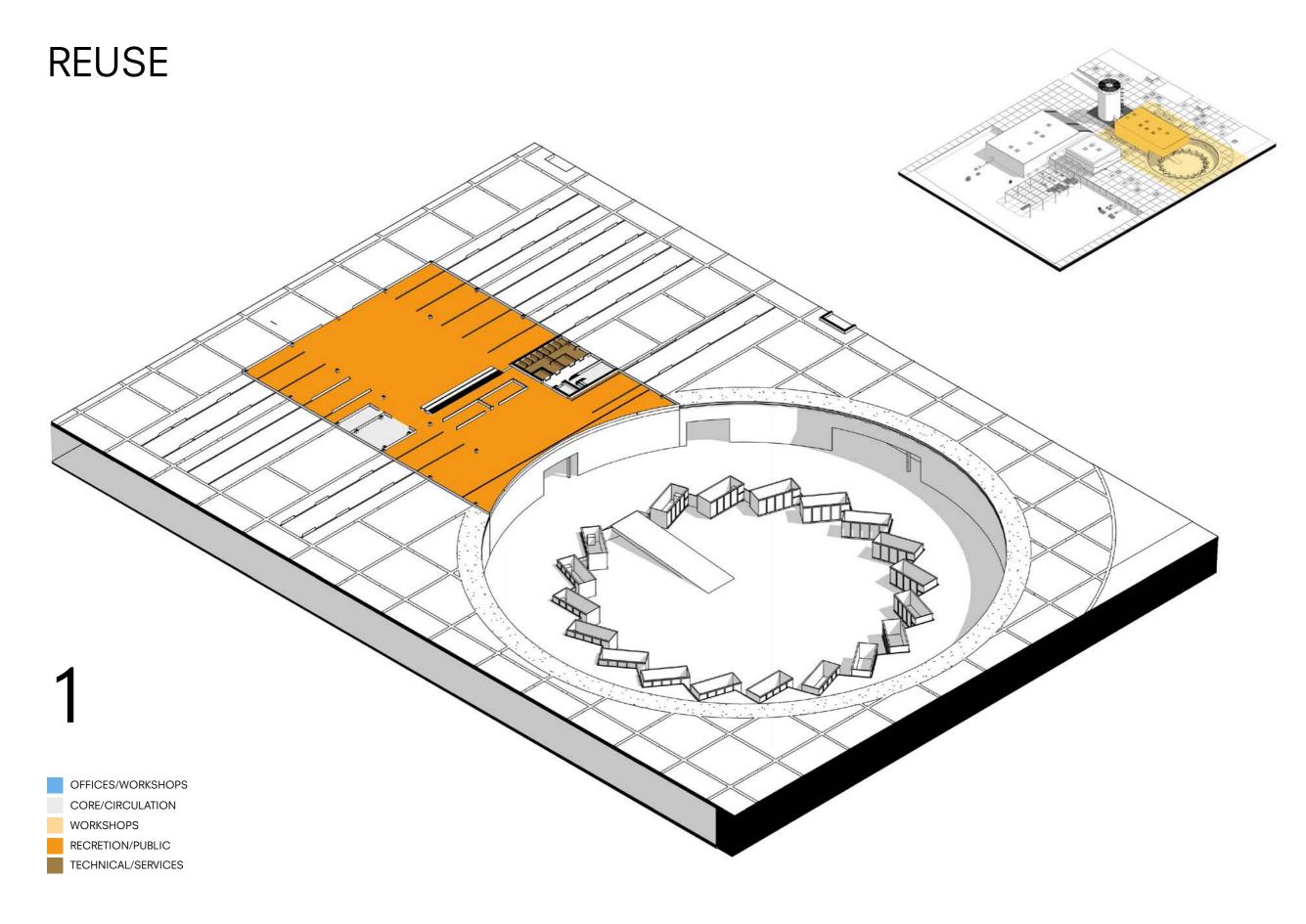
REUSE

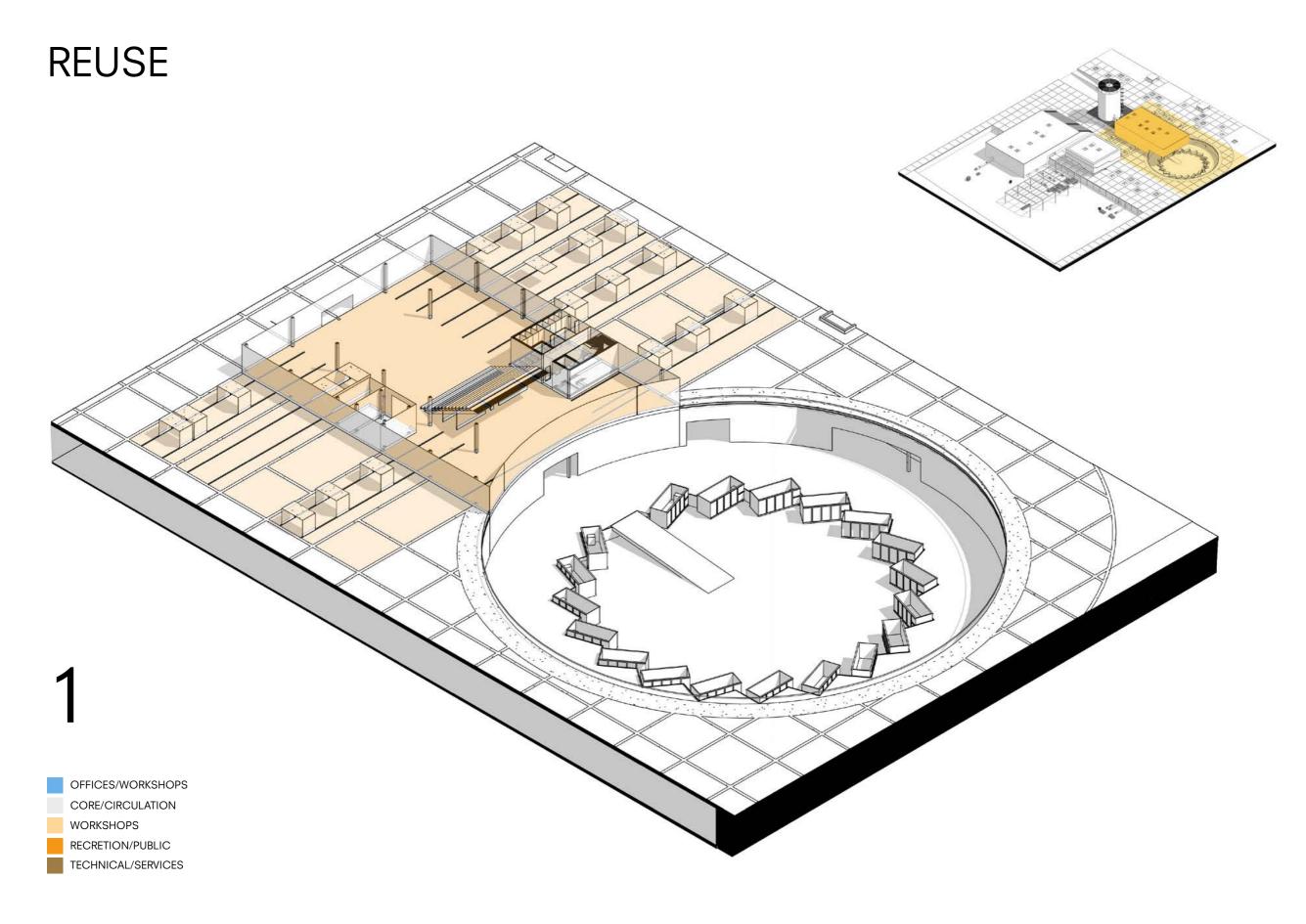


OFFICES/WORKSHOPS
CORE/CIRCULATION
WORKSHOPS
RECRETION/PUBLIC
TECHNICAL/SERVICES

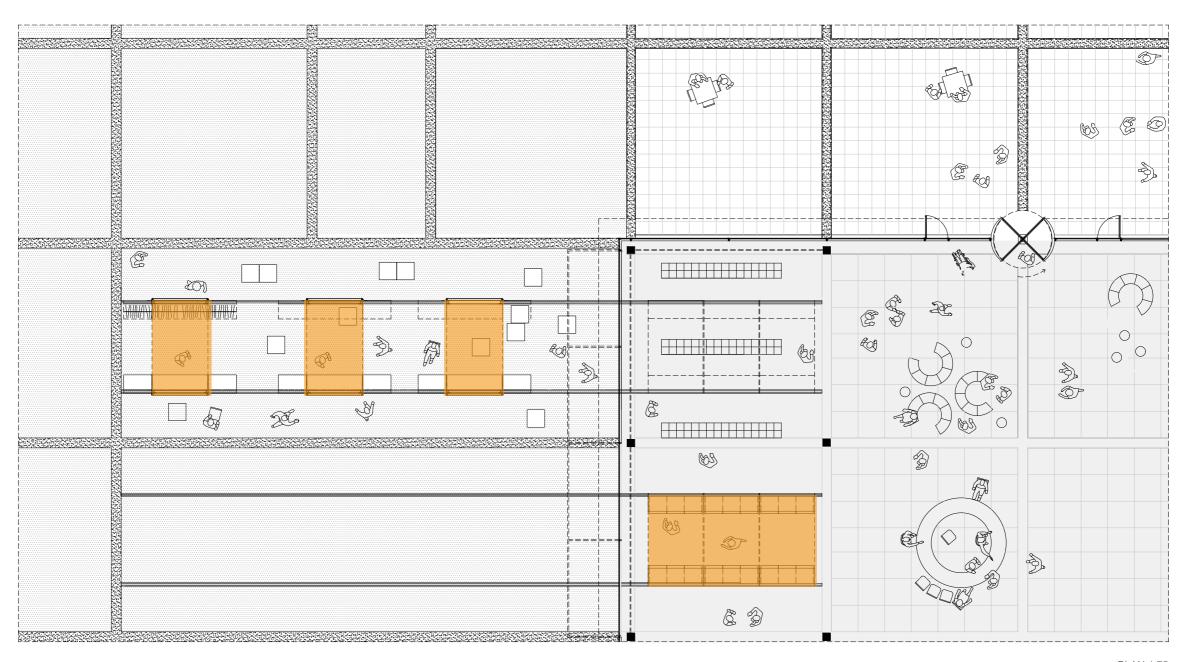






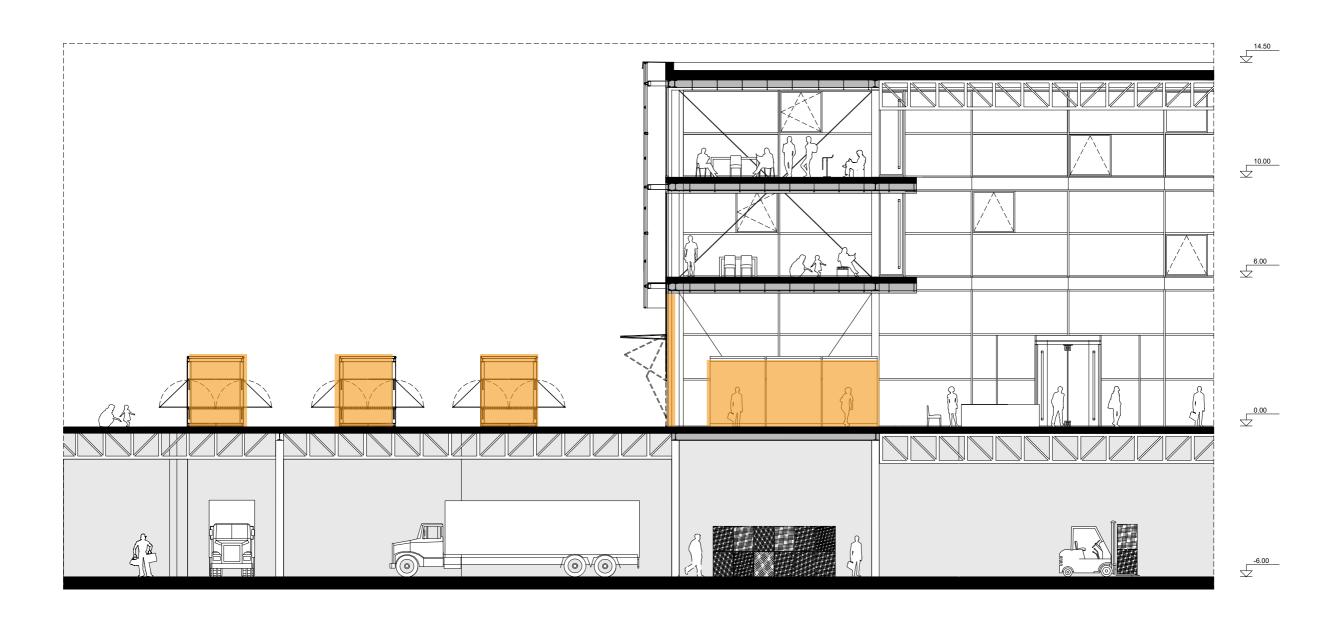


SHOP EXTENTION

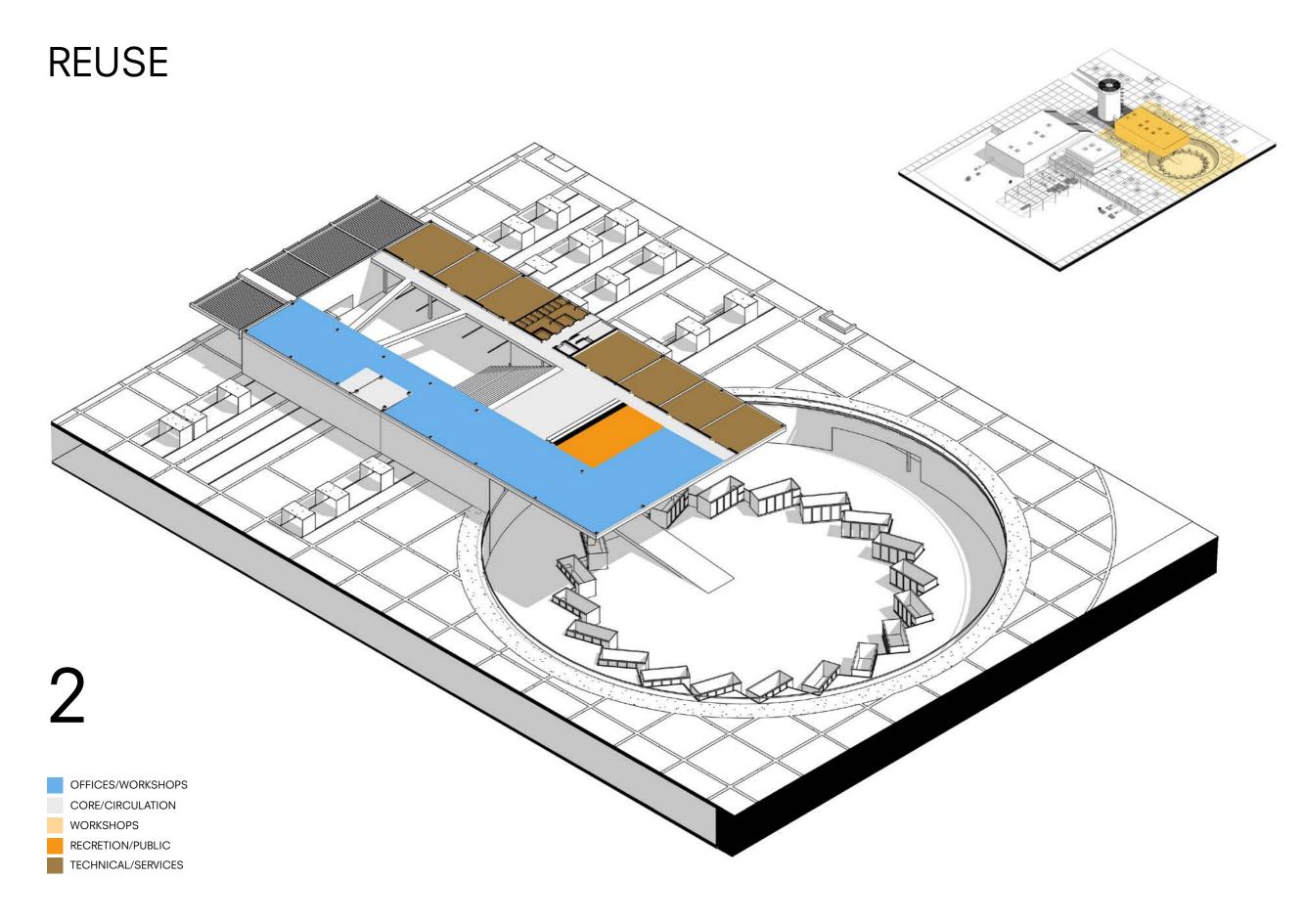


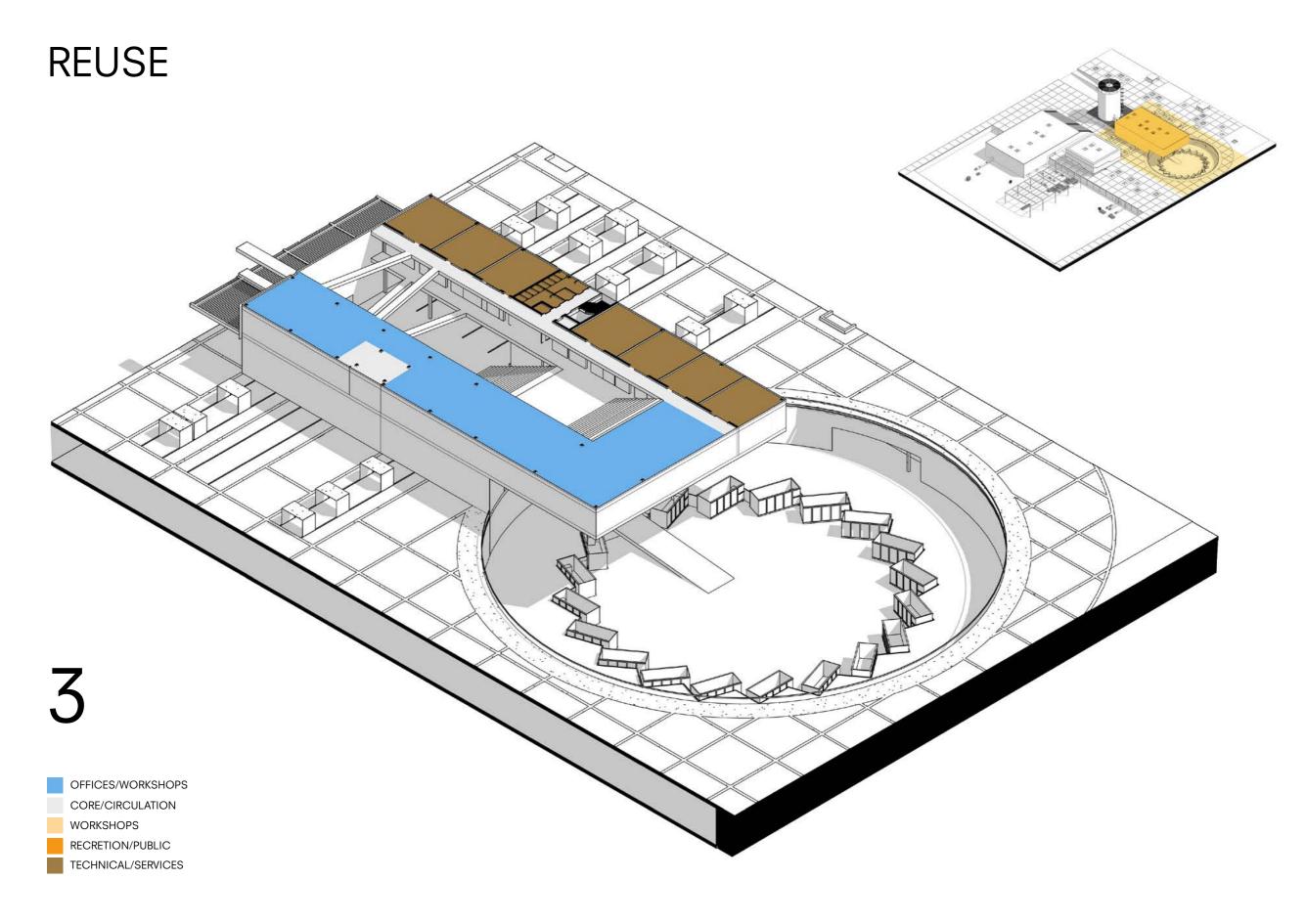


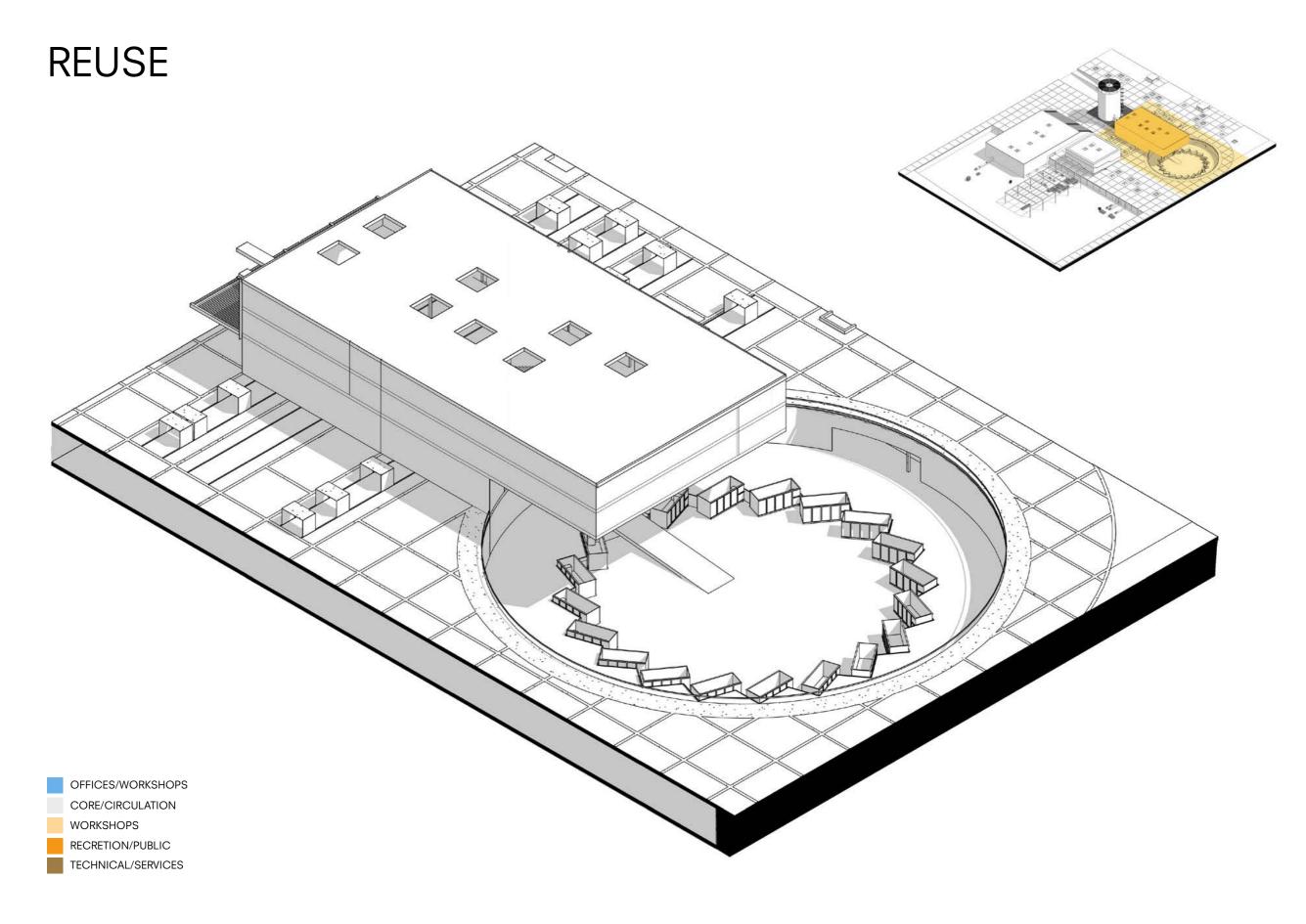
SHOP EXTENTION











INTERIOR MATERIALIZATION





PERFORATED CORTEN STEEL PANELS

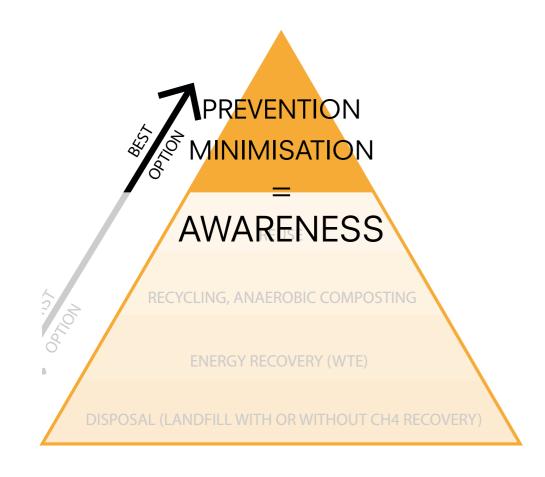


AMERYTOP 400 FLOOR

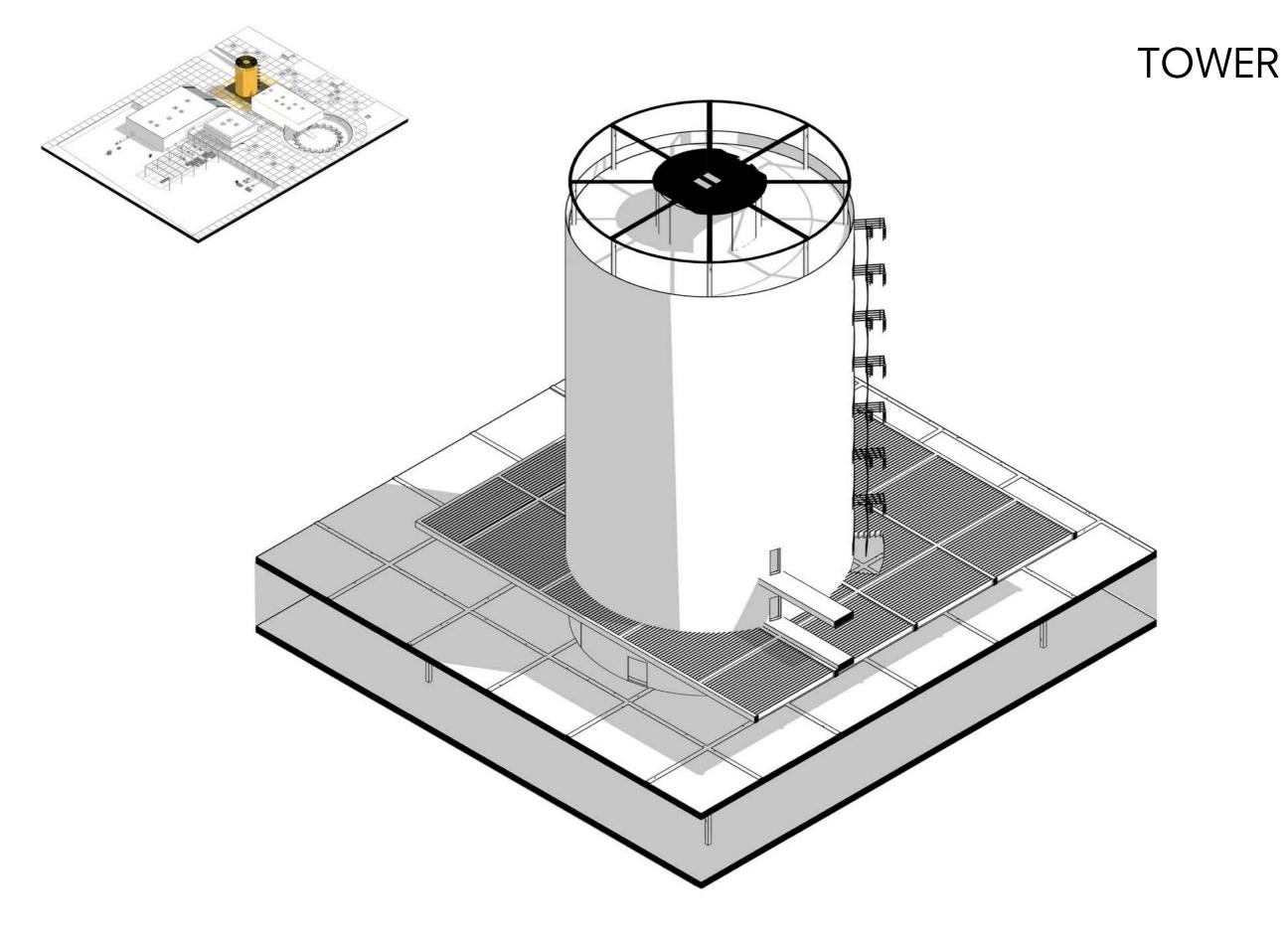


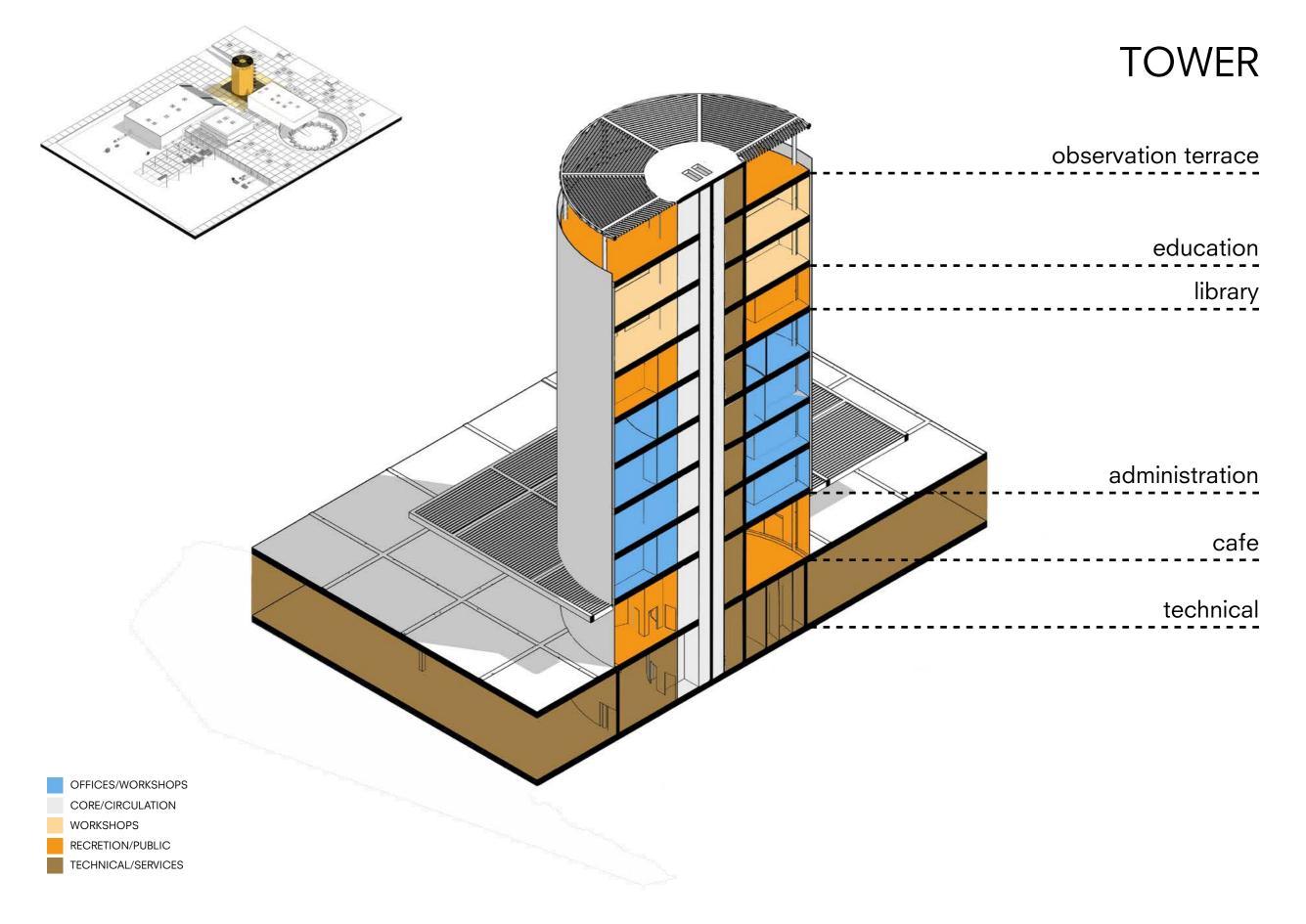
WHITE BRUSHED CONCRE WALL FINISH

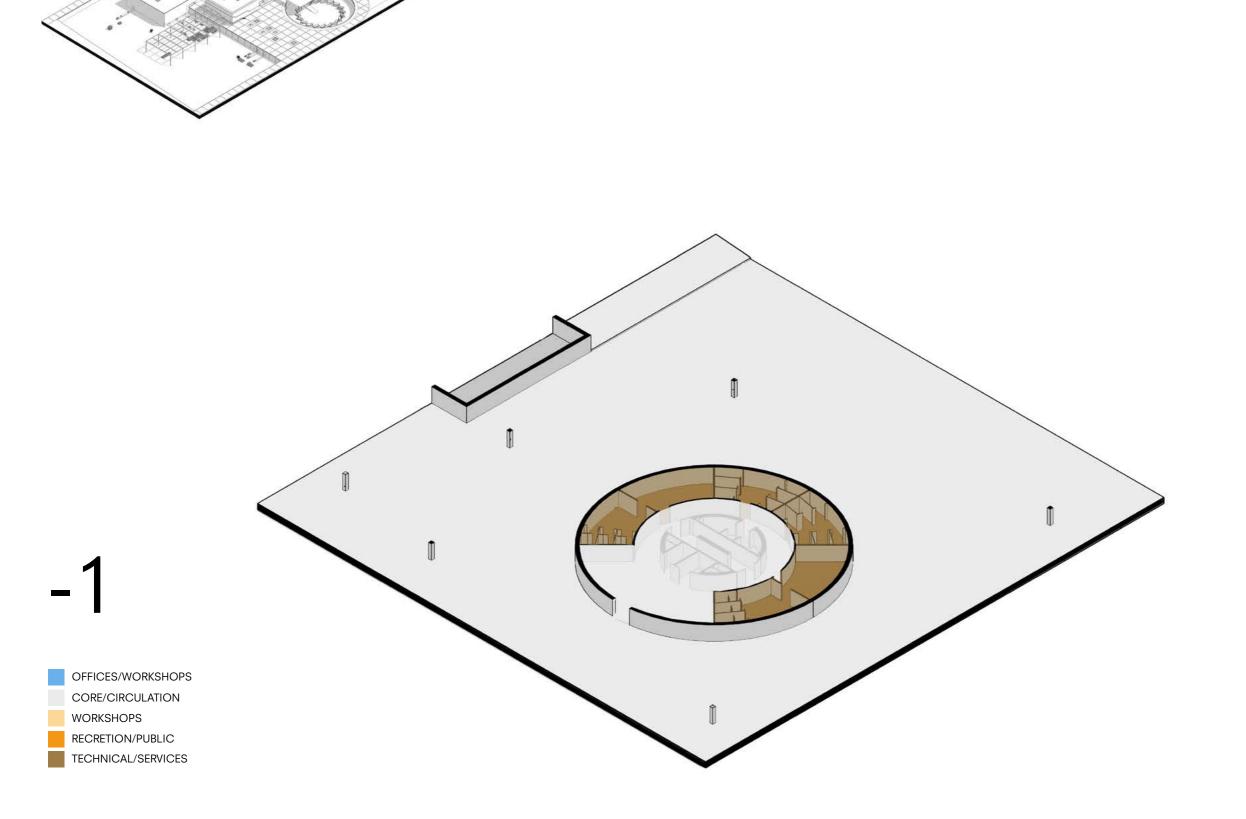


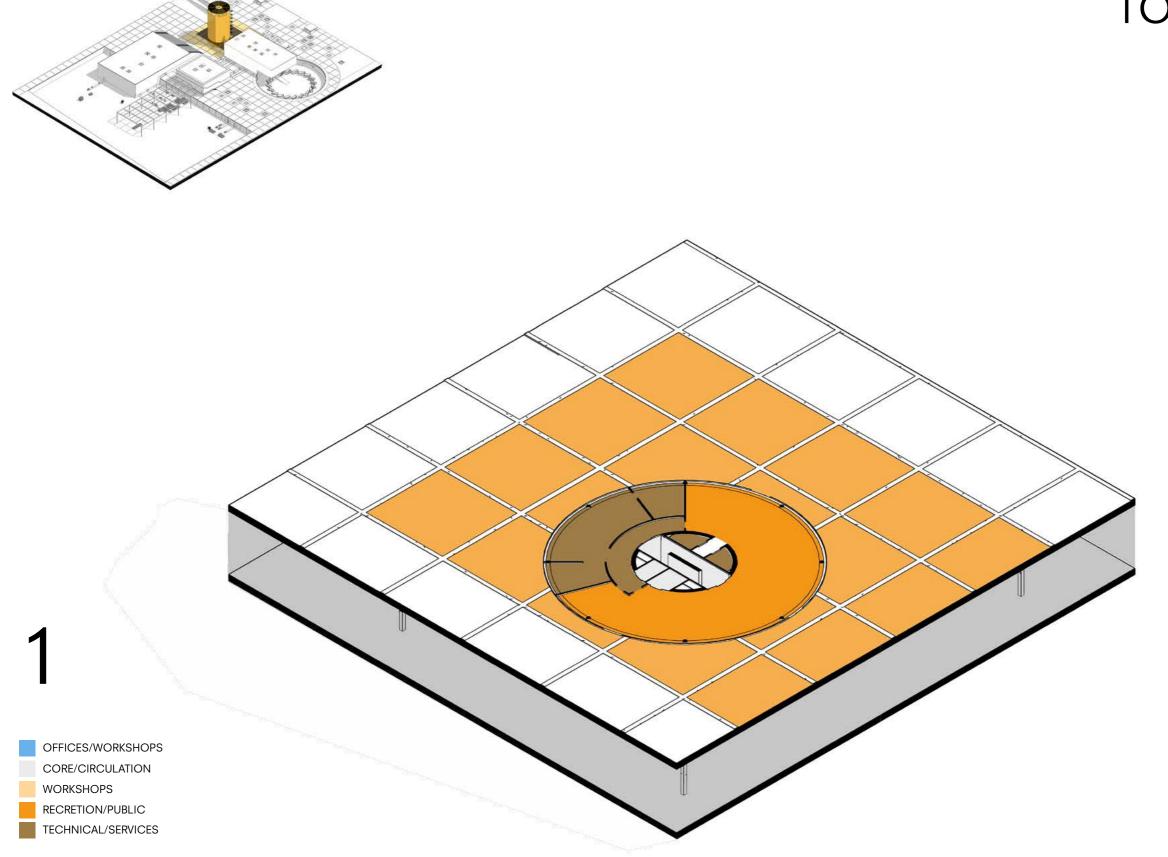




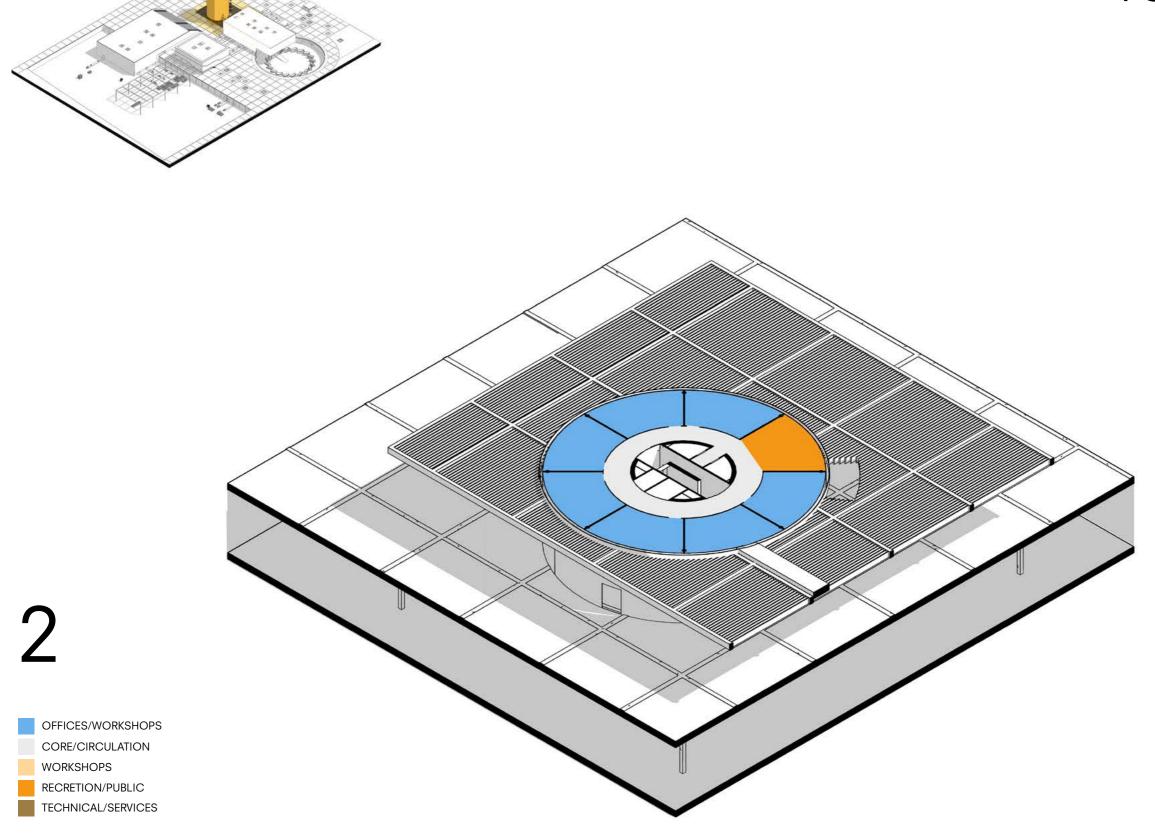


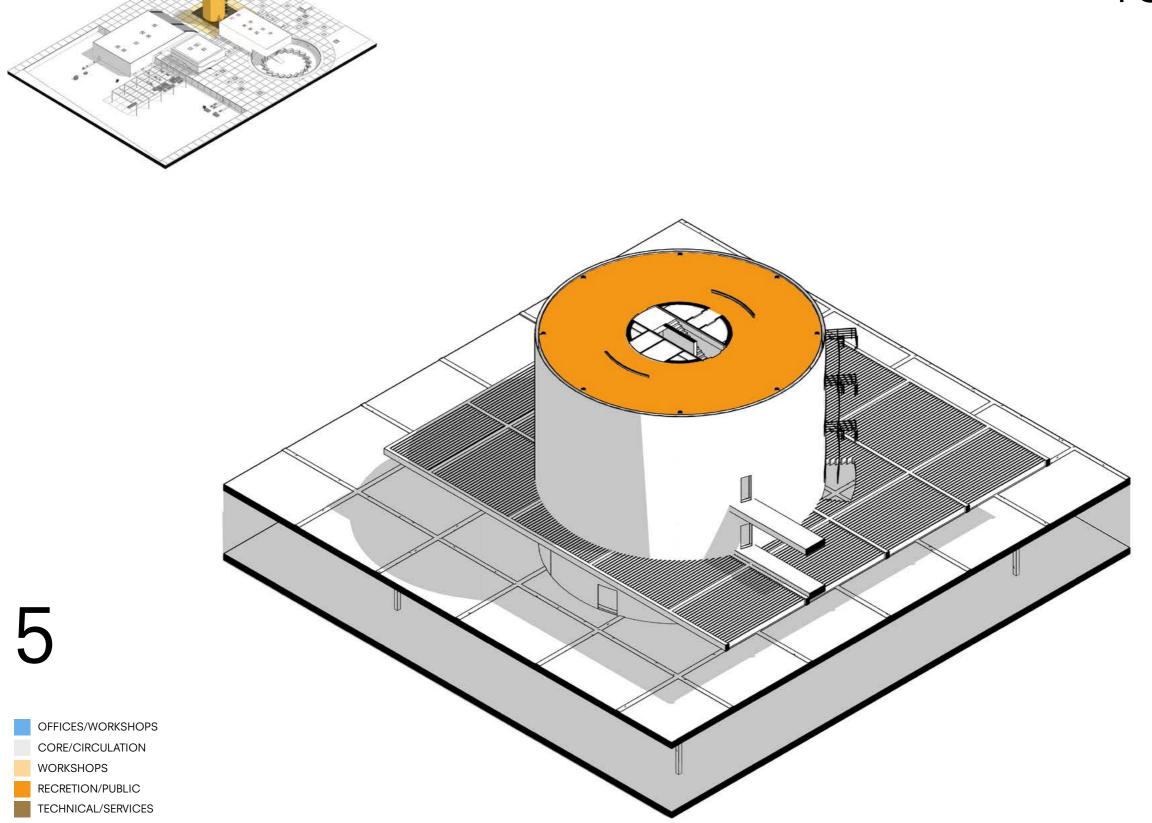


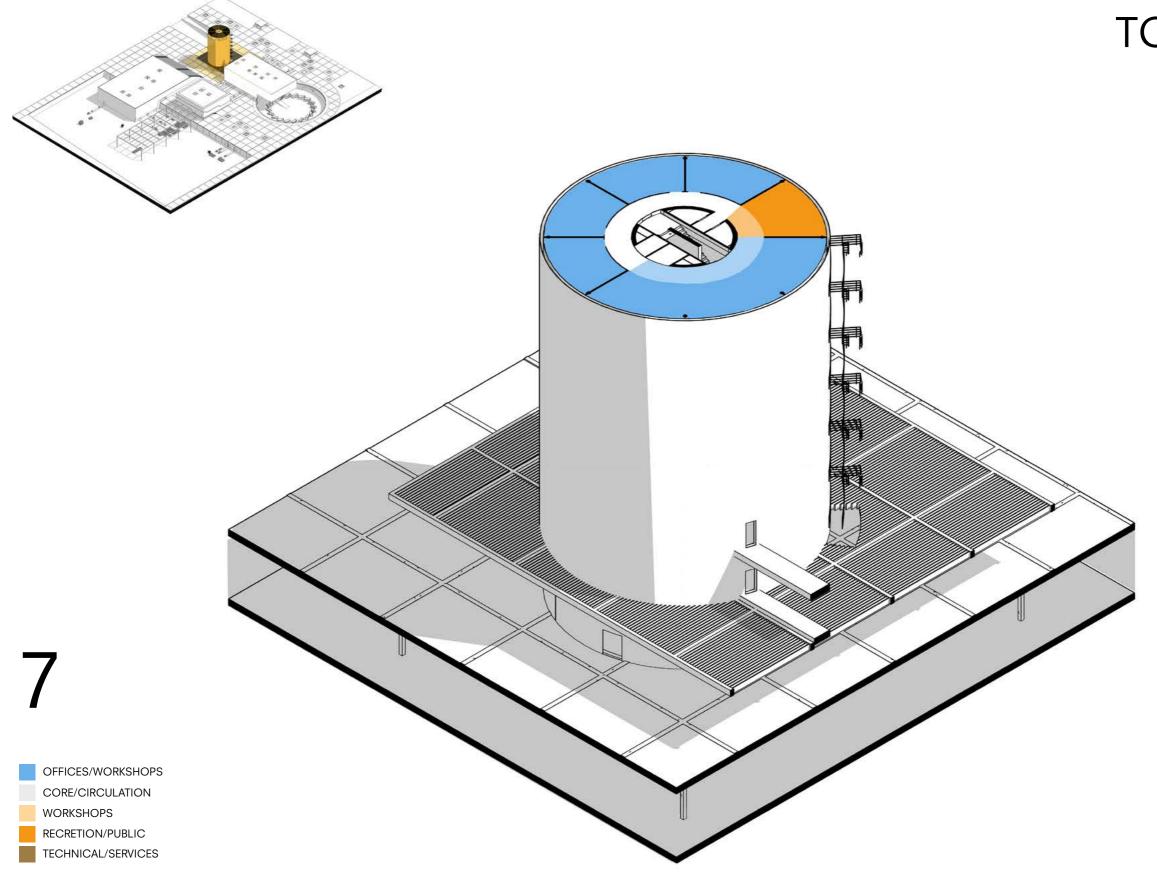




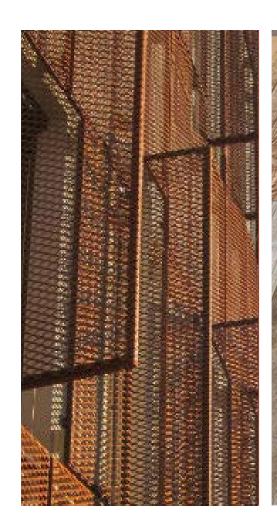








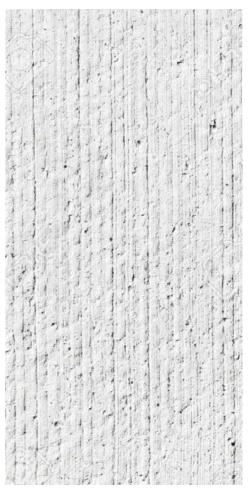
INTERIOR MATERIALIZATION



PERFORATED CORTEN
STEEL PANELS



RECLAIMED WOOD FLOOR

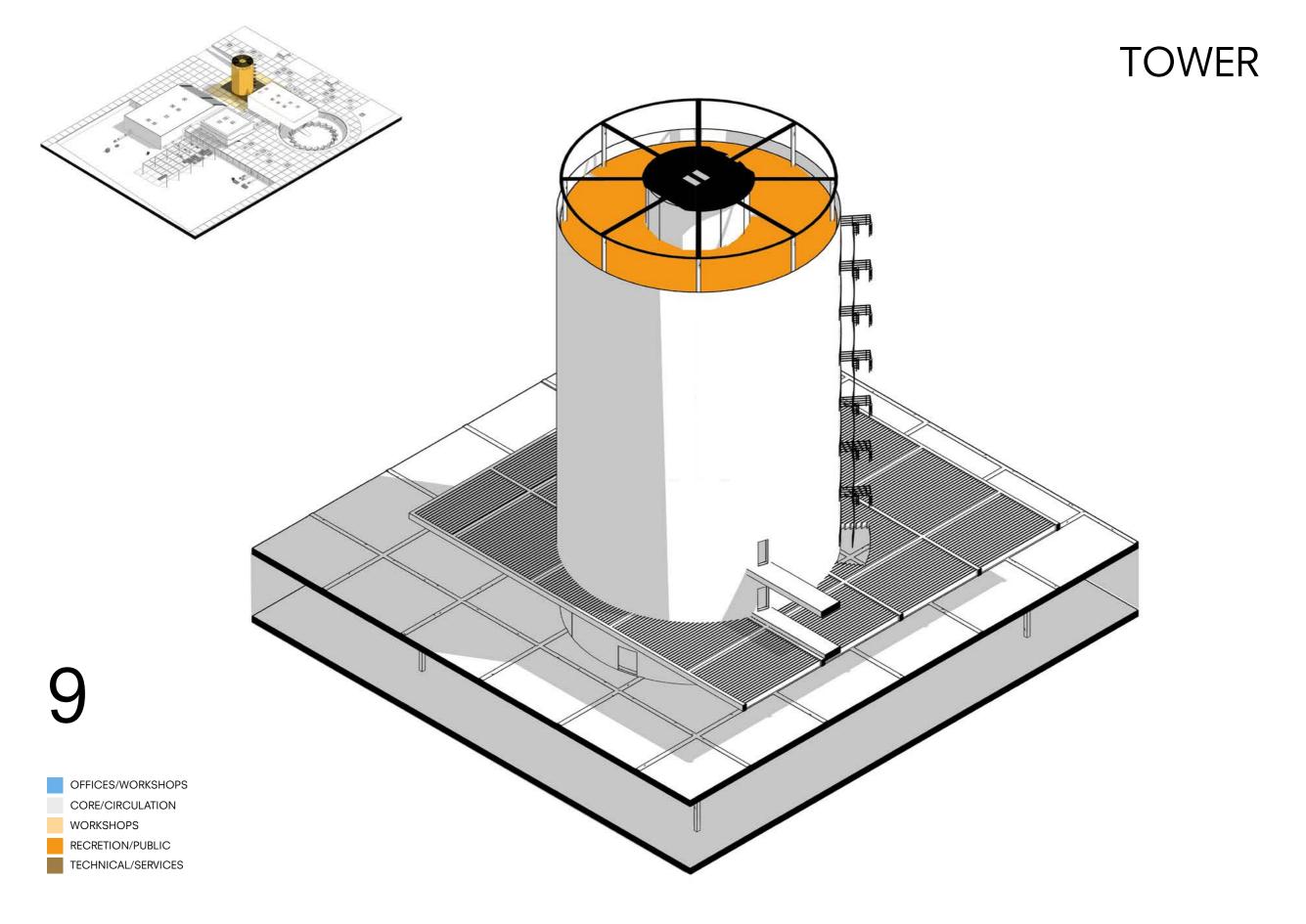


WHITE BRUSHED CONCRE WALL FINISH

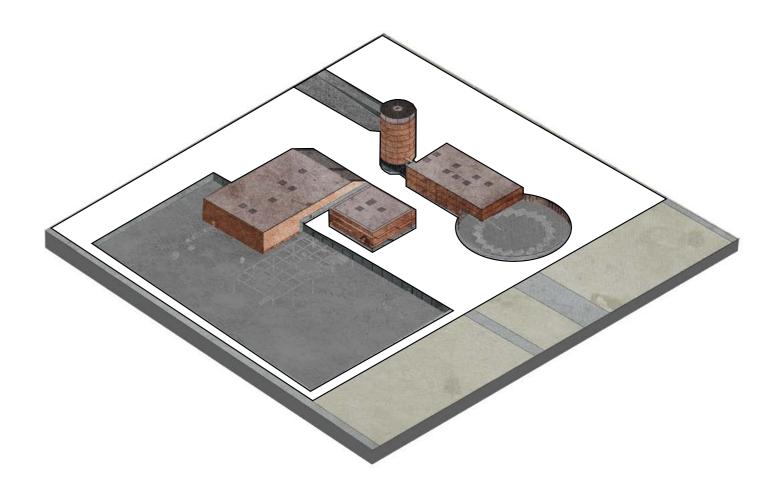


POLISHED CONCRETE FLOOR TILES

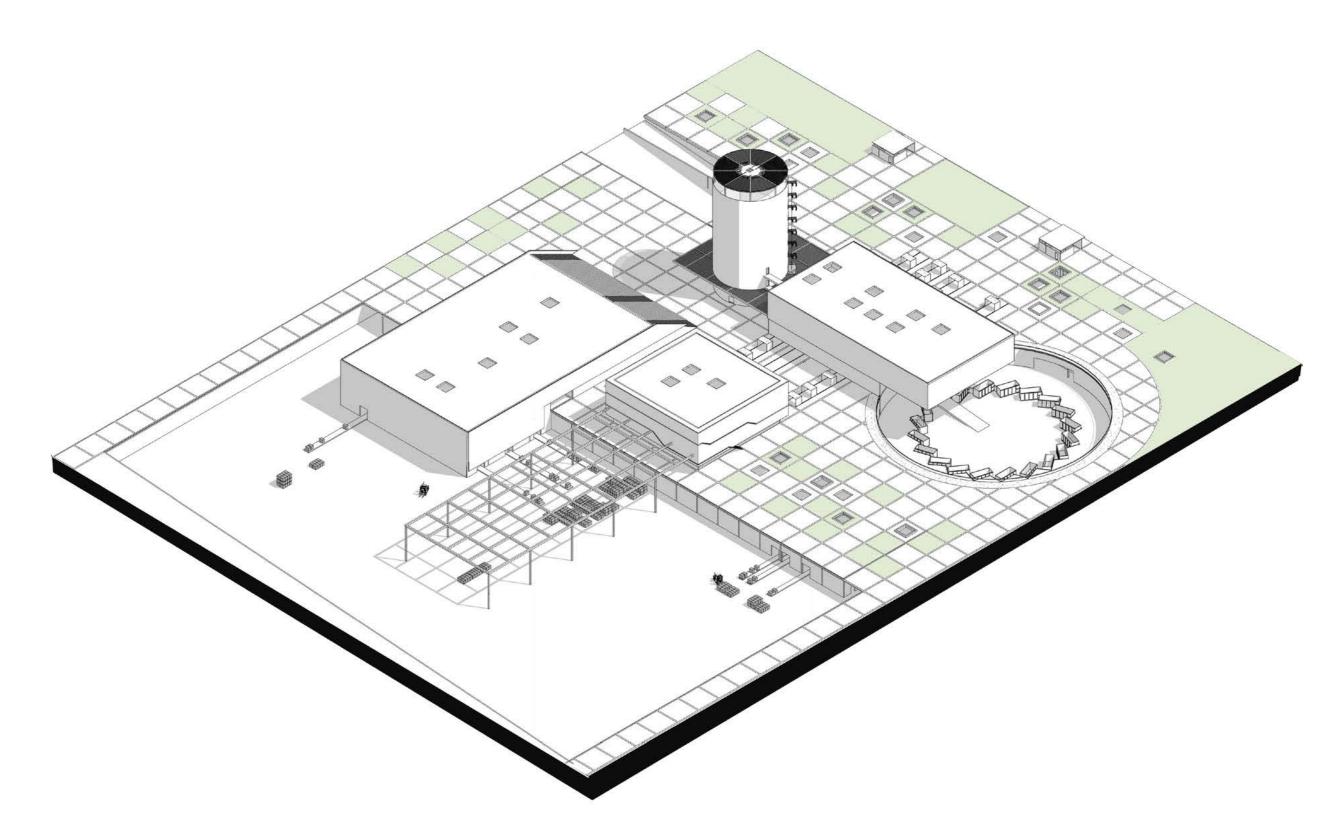




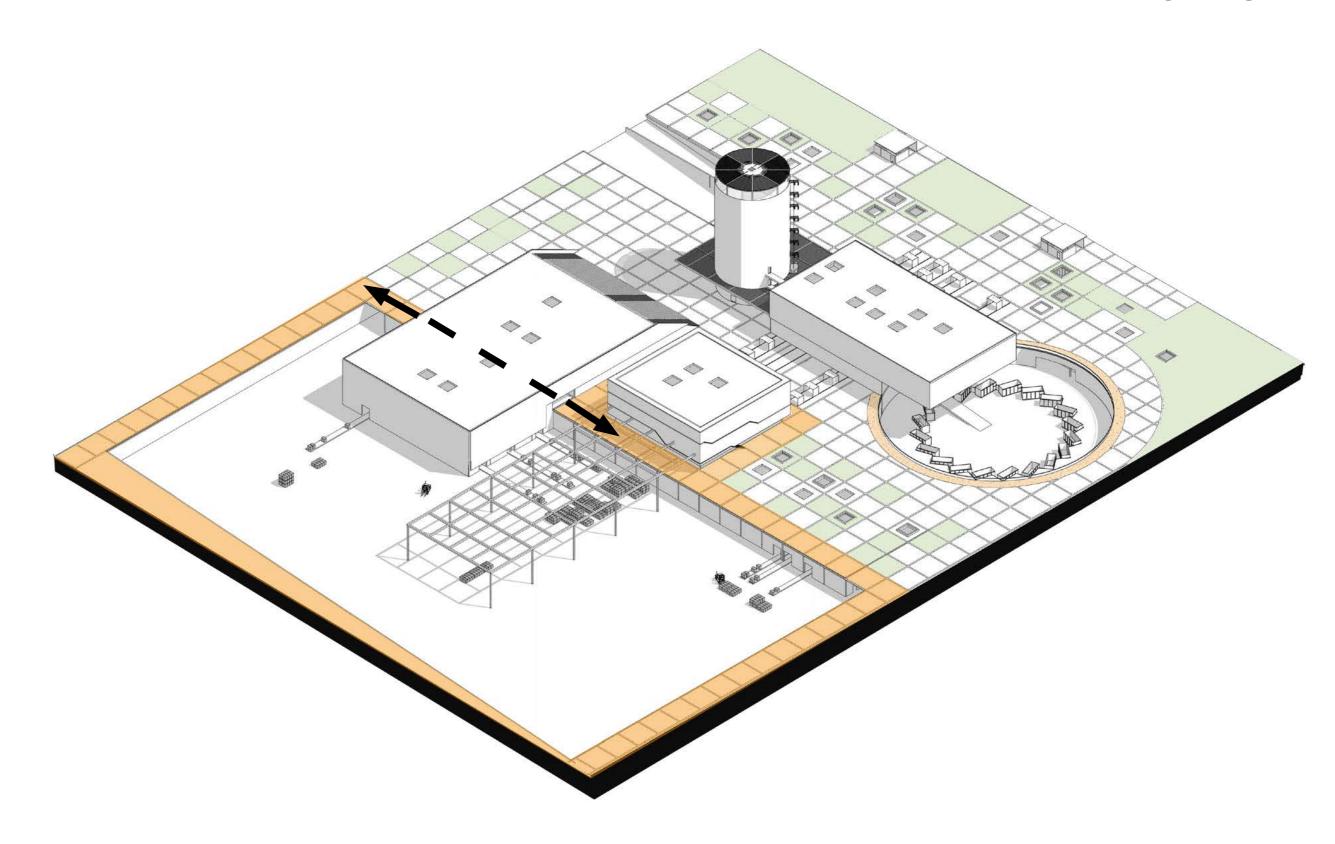


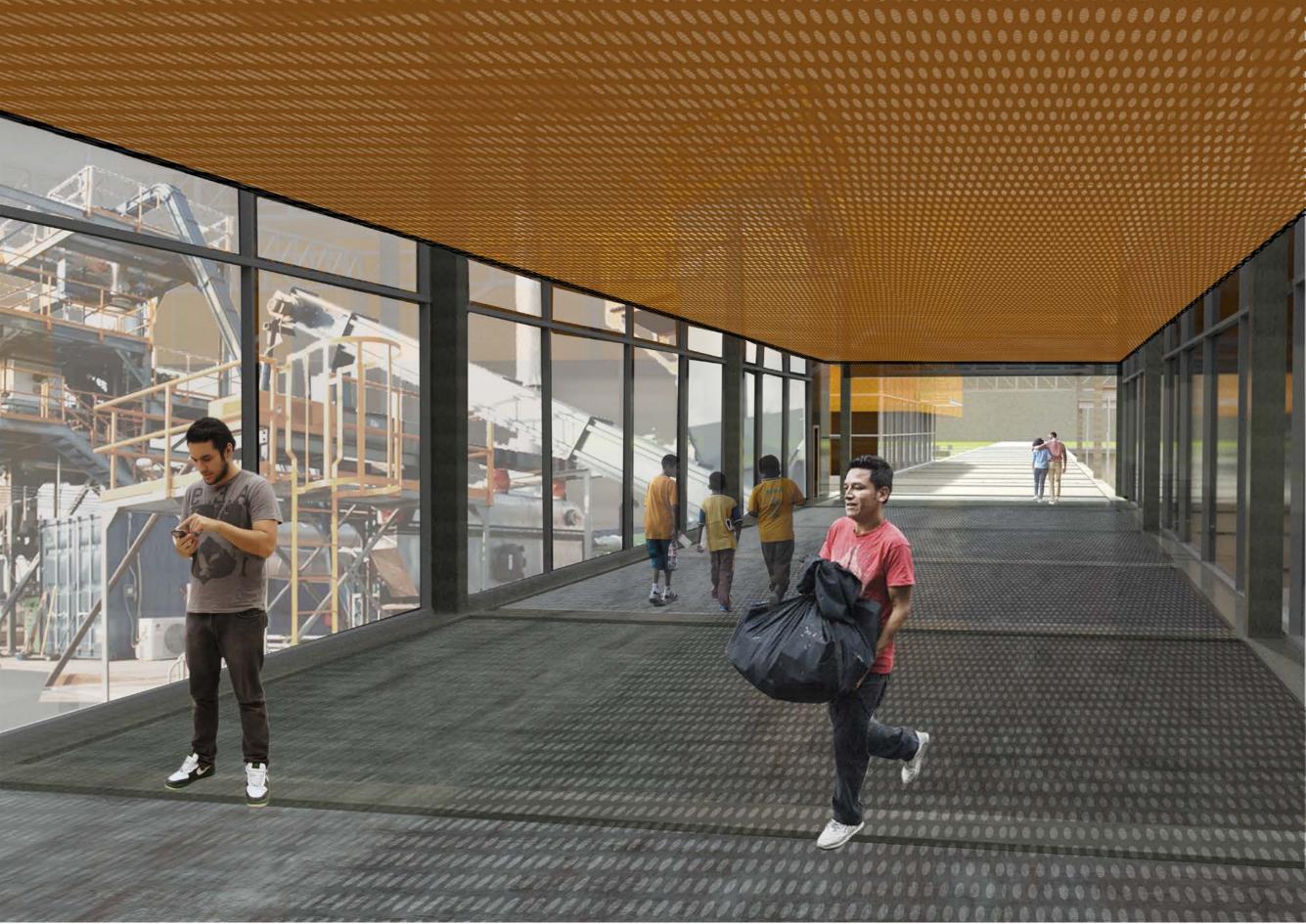


IN-BETWEEN SPACE

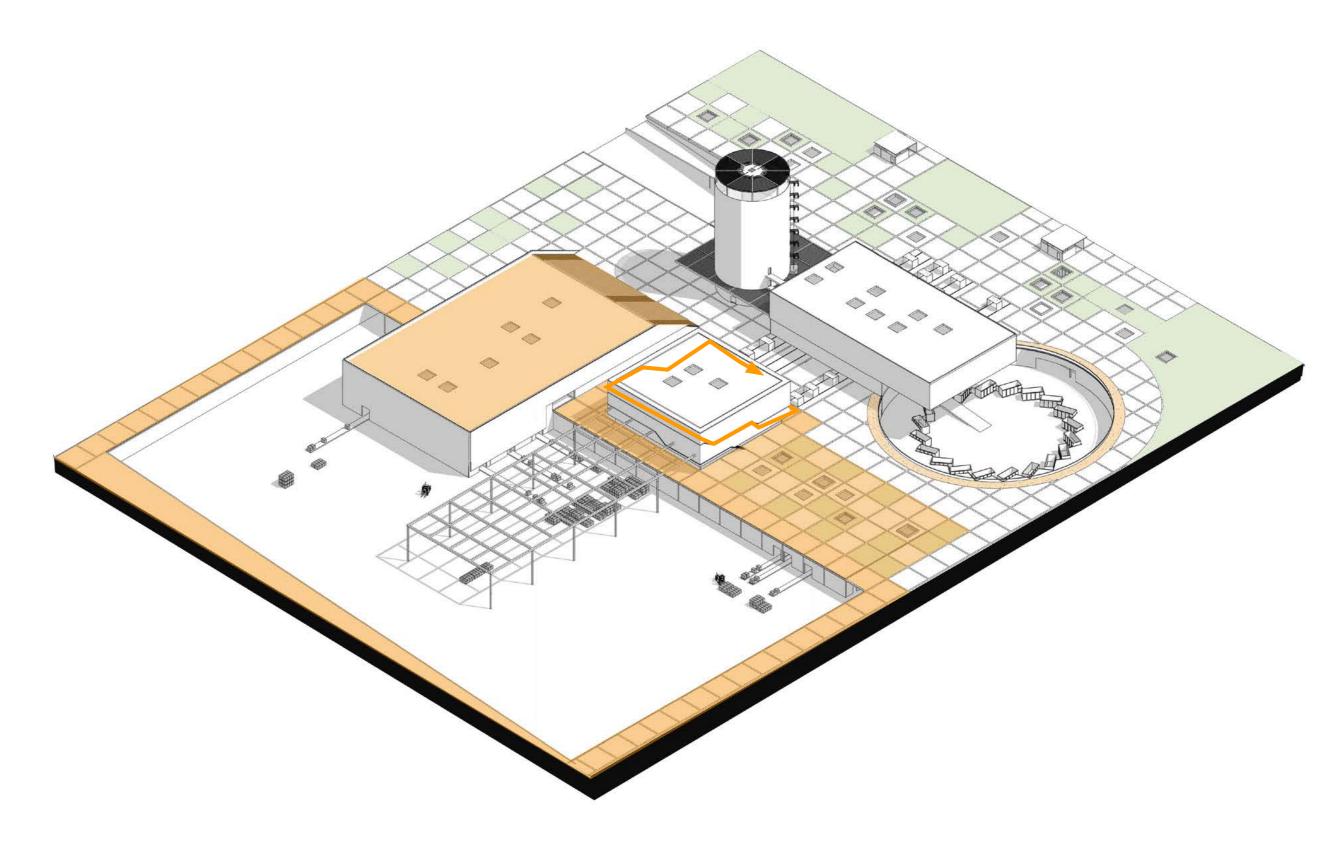


IN-BETWEEN SPACE

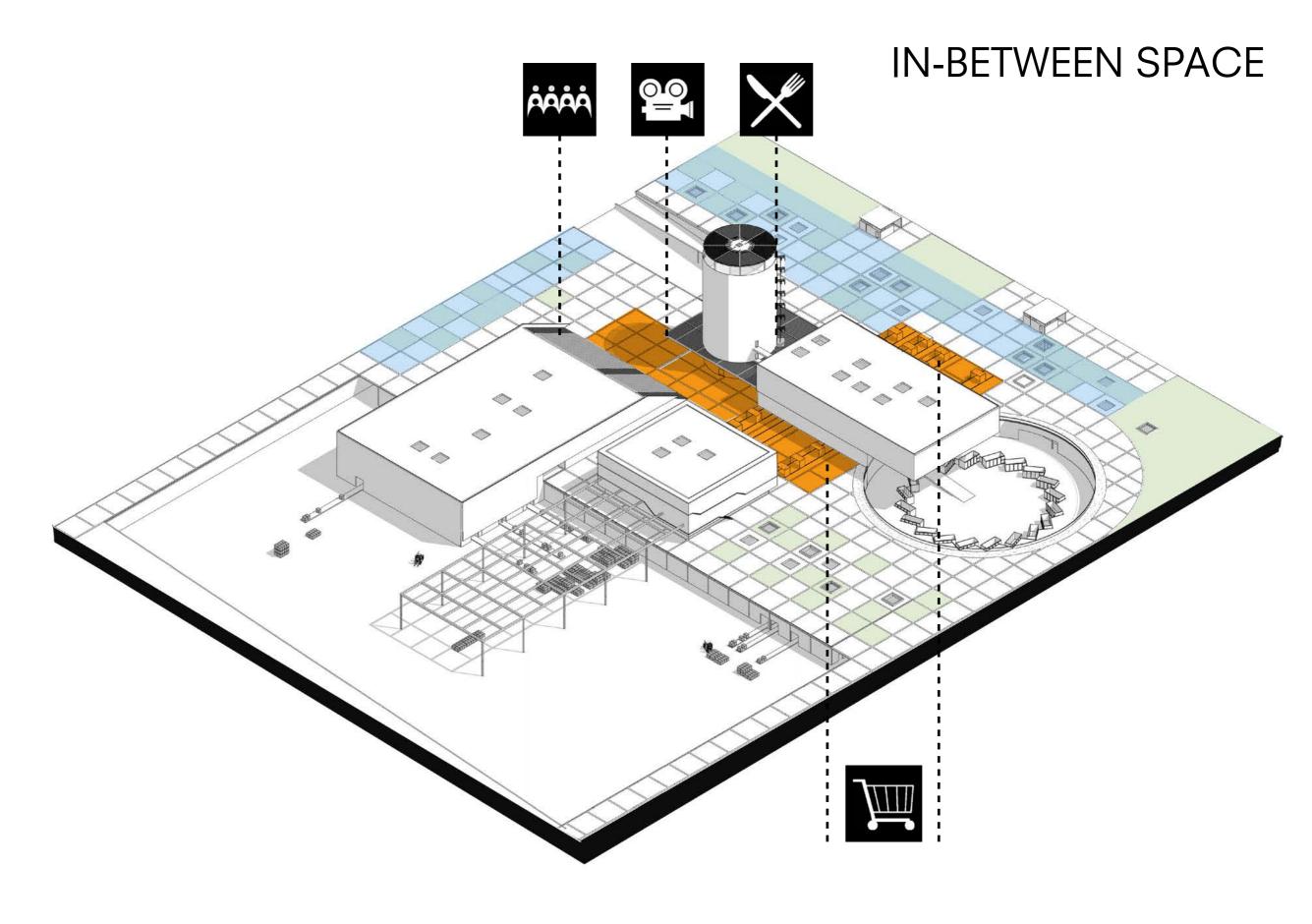




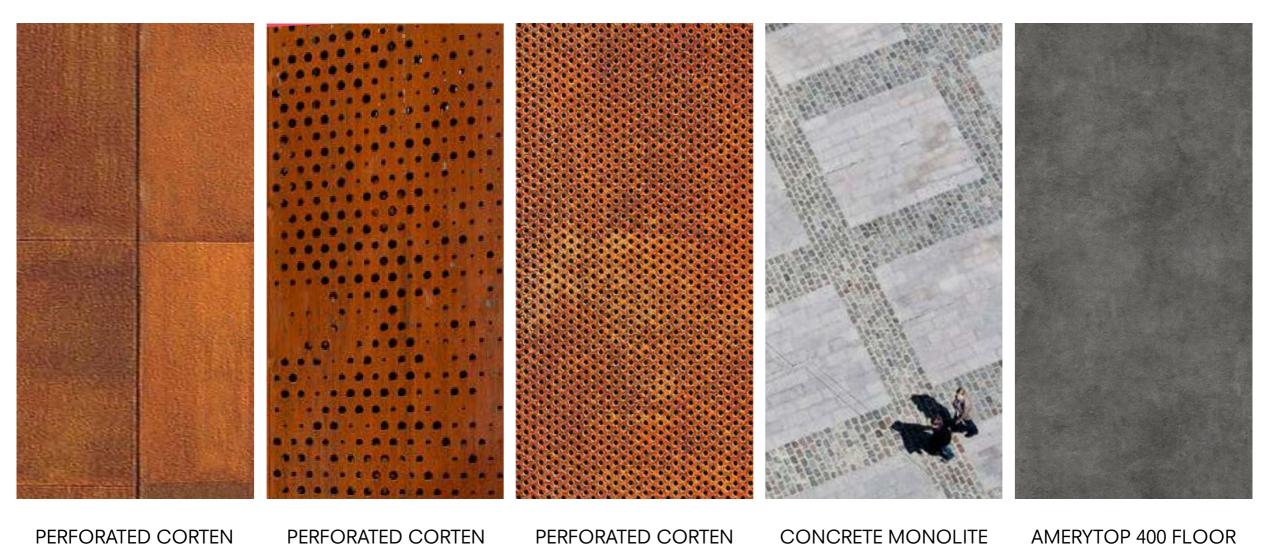
IN-BETWEEN SPACE







OUTSIDE MATERIALIZATION

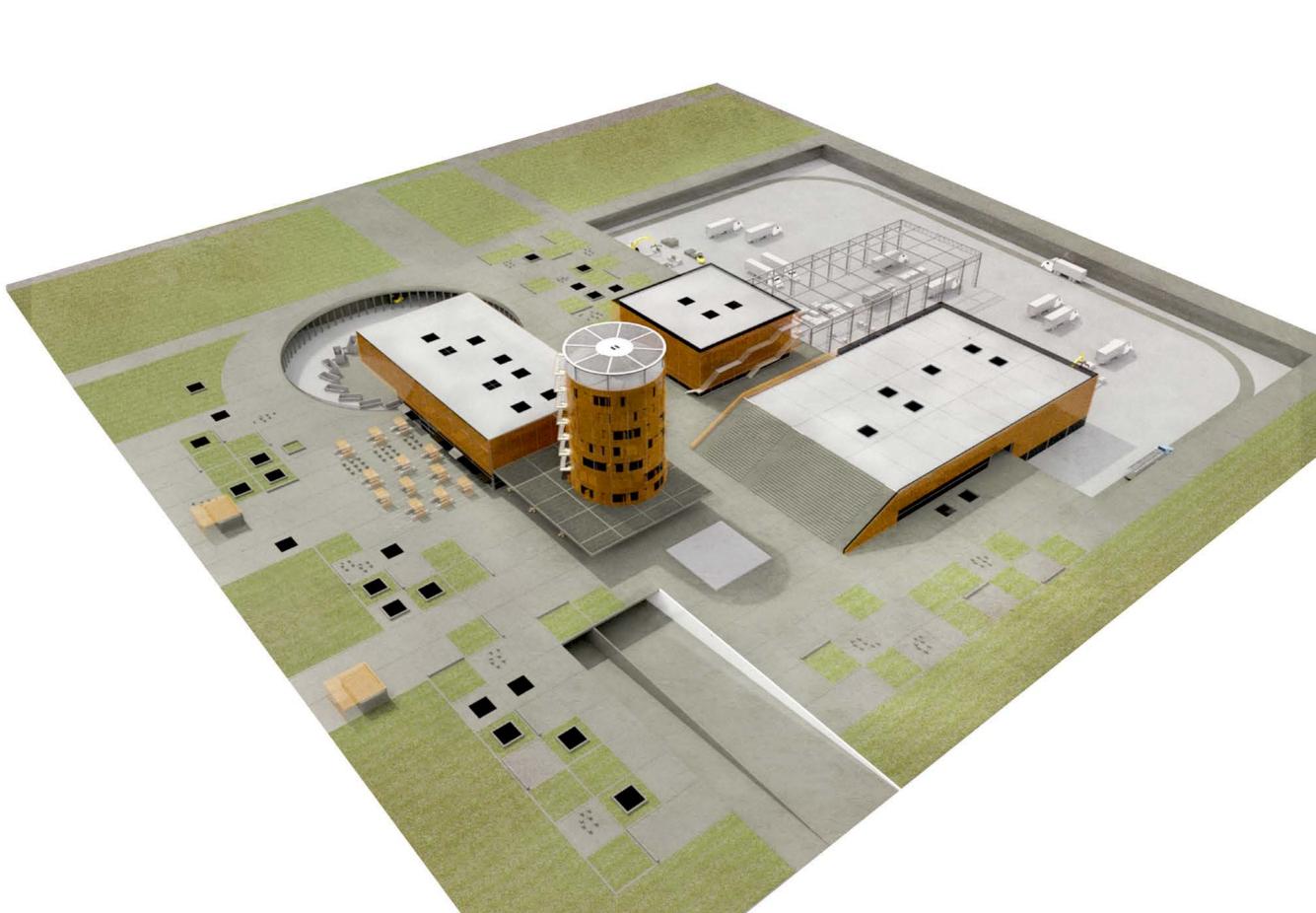


STEEL PANELS

STEEL PANELS

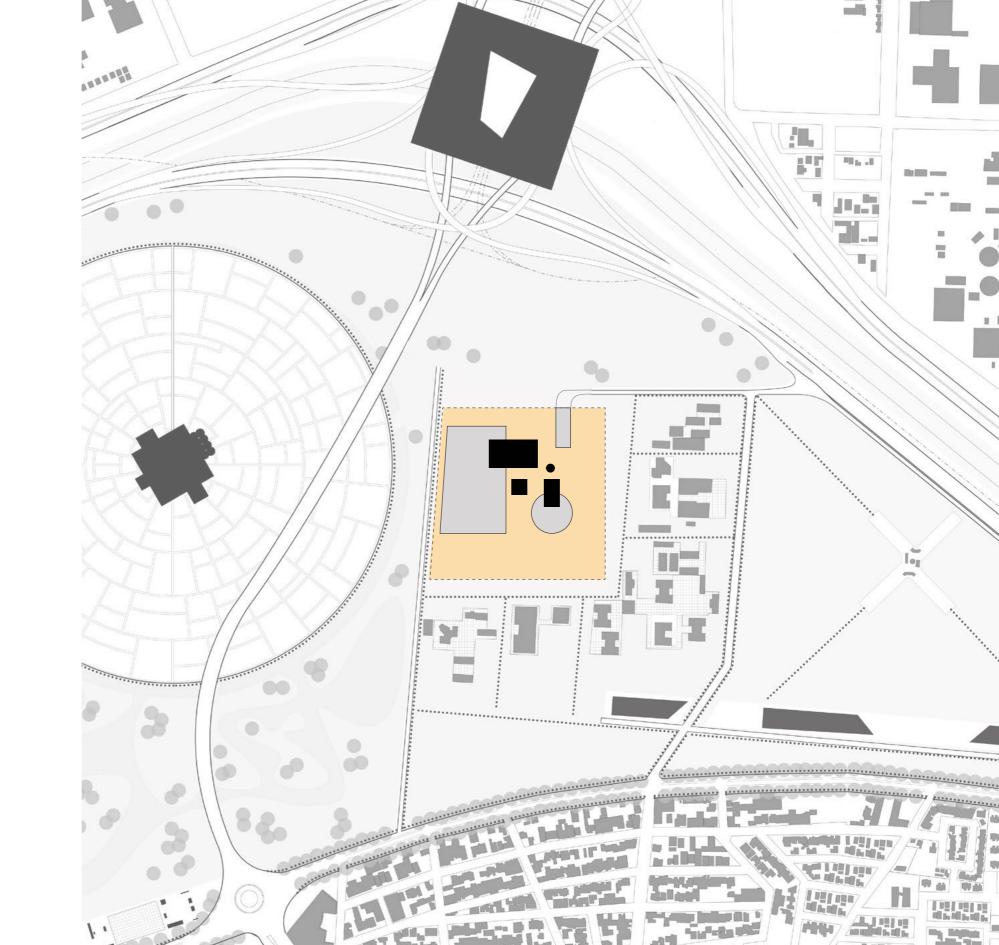
PERFORATED CORTEN **CONCRETE MONOLITE** STEEL PANELS AND TILES

AMERYTOP 400 FLOOR





ZOOM OUT



RELATION TO SCHOOL & UNIVERSITY



RECREATION AND PLAYGROUNDS



RELATION TO PARK

RELATION TO SURROUNDINGS

