

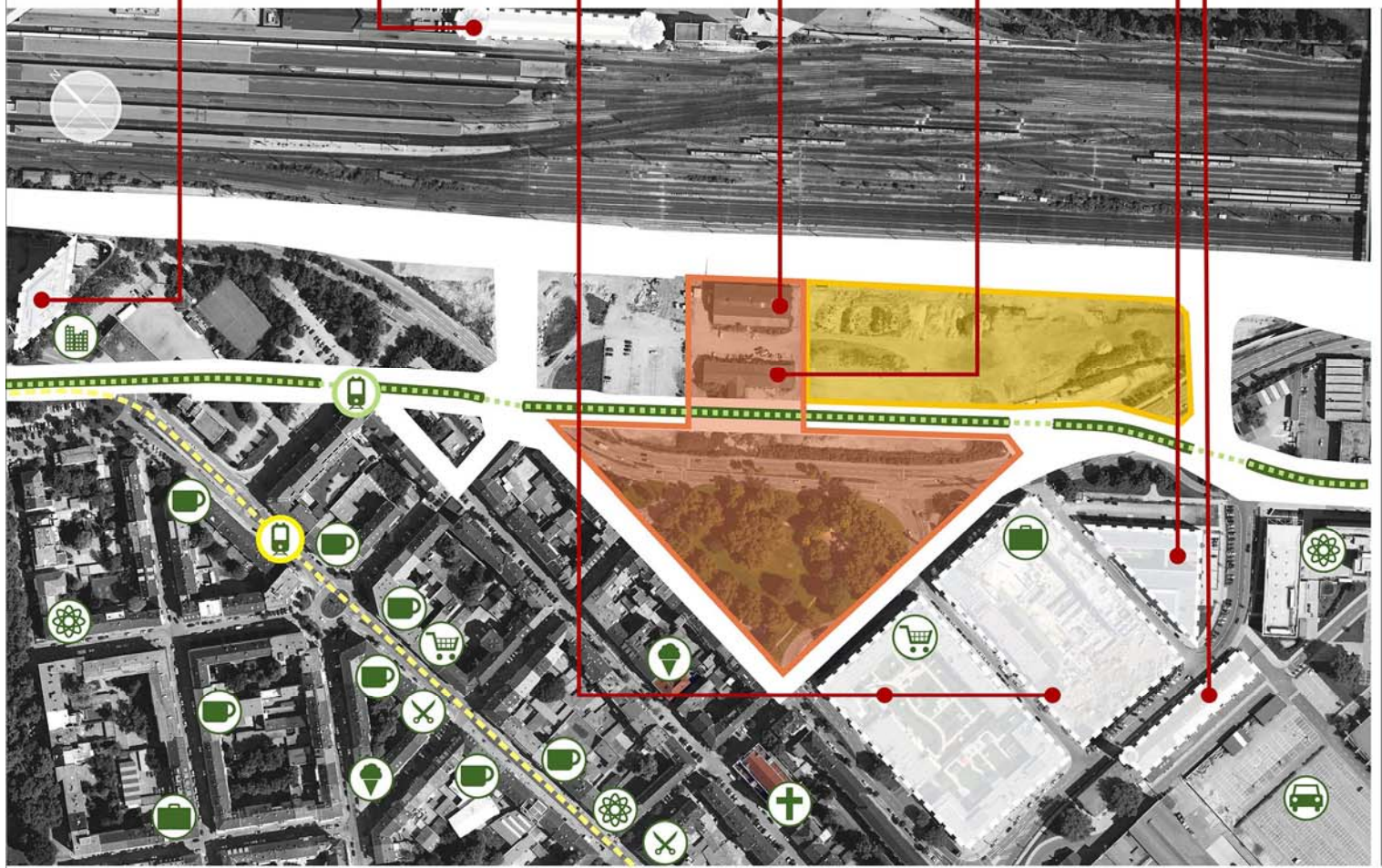
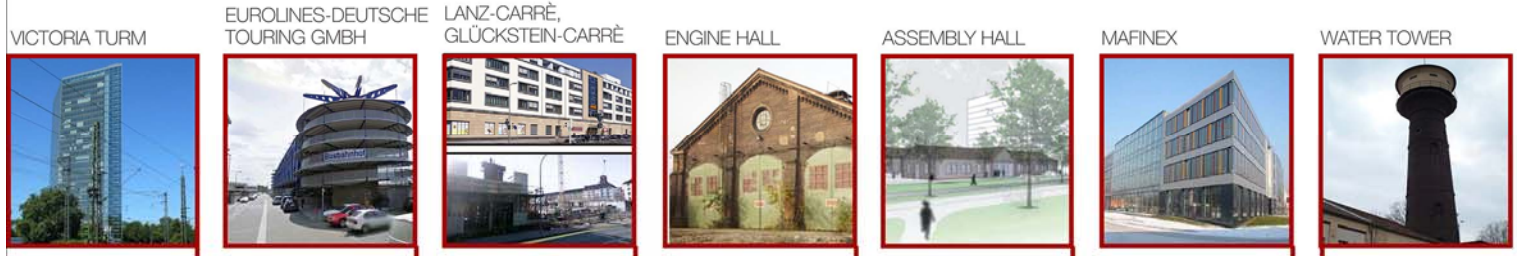
# ISOVER Multi-Comfort House Students Contest 2013

Vision & Reality - Glückstein Quartier



UKRAINE. POLTAVA NATIONAL TECHNICAL UNIVERSITY

ANNA KRUGLOVA, ELENA KRUGLOVA, MARIA ZHELIAZKOVA

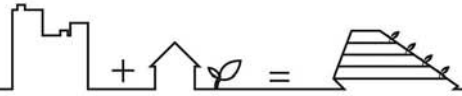


LEGEND:

- area "A"
- area "B"
- - - tramline
- · - · - projecting tramline
- projecting roads
- green area

SYMBOLS:

- café
- hotel
- kindergarden
- church
- hair salon
- shop
- exhibition
- parking
- office



UKRAINE, ANNA KRUGLOVA, FI FNA KRUGLOVA, MARIA ZHELIJAZKOVA

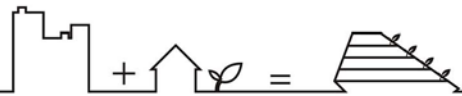


LEGEND:

-  pedestrian ways
-  transport ways
-  cycle lanes

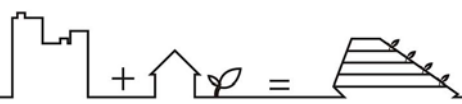
SYMBOLS:

-  enter
-  enter to the parking
-  playground
-  park
-  exhibition
-  public space
-  café
-  house
-  office

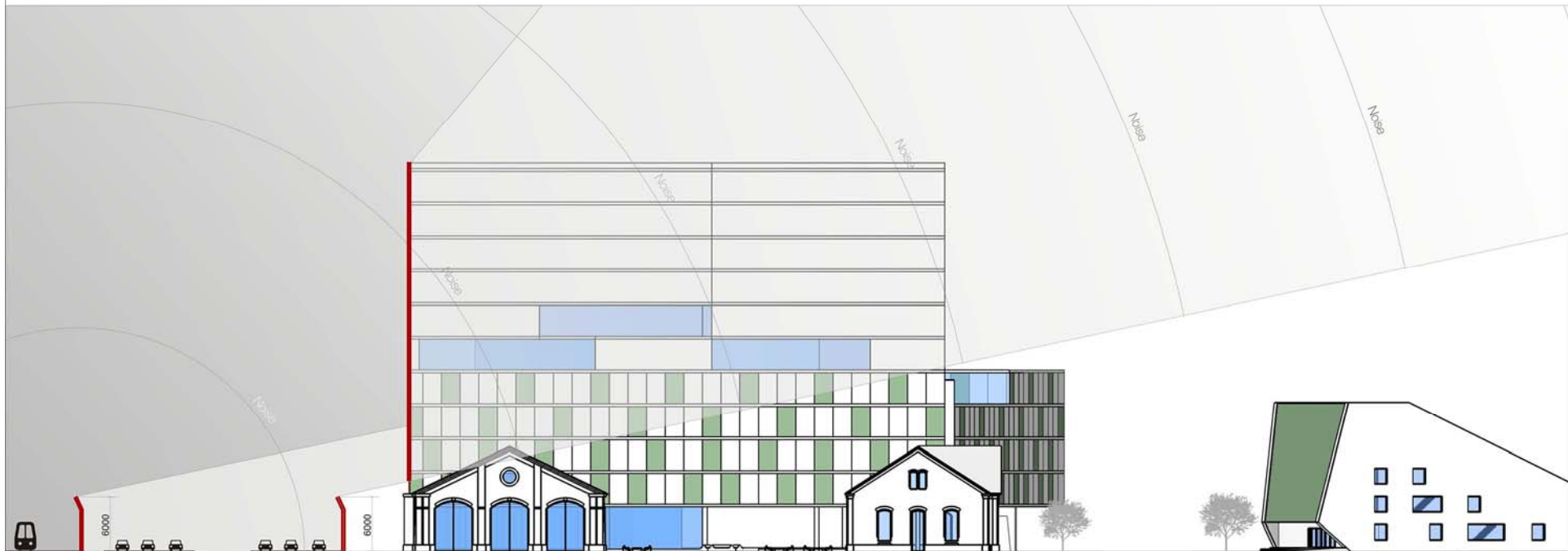


UKRAINE, ANNA KRUGLOVA, FI FNA KRUGLOVA, MARIA ZHELIJAZKOVA

# CONNECTION



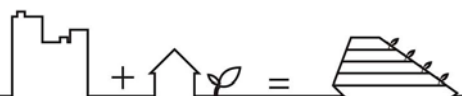
UKRAINE, ANNA KRUGLOVA, FI FNA KRUGLOVA, MARIA ZHELIJZKOVA



railway highway

NOISE BARRIER

FACADE SYSTEM FOR NOISE PROTECTION



UKRAINE, ANNA KRUGLOVA, ELENA KRUGLOVA, MARIA ZHELIAZKOVA



OPERABLE  
WINDOWS



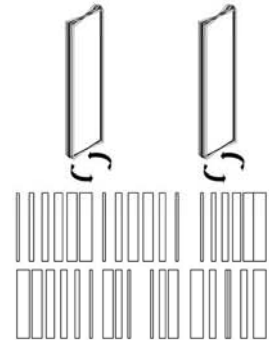
EXTENSIVE GREEN



EXTENSIVE  
VERTICAL GREEN



OPERABLE WINDOWS



CONSERVATORY



UKRAINE ANNA KRUGLOVA, ELENA KRUGLOVA, MARIA ZHELIAZKOVA

bench



green area



public space exhibition



enter



café



UKRAINE ANNA KRUGLOVA, ELENA KRUGLOVA, MARIA ZHELIJAZKOVA



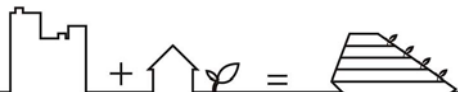
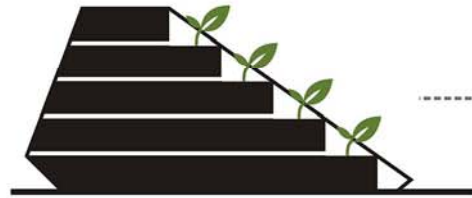




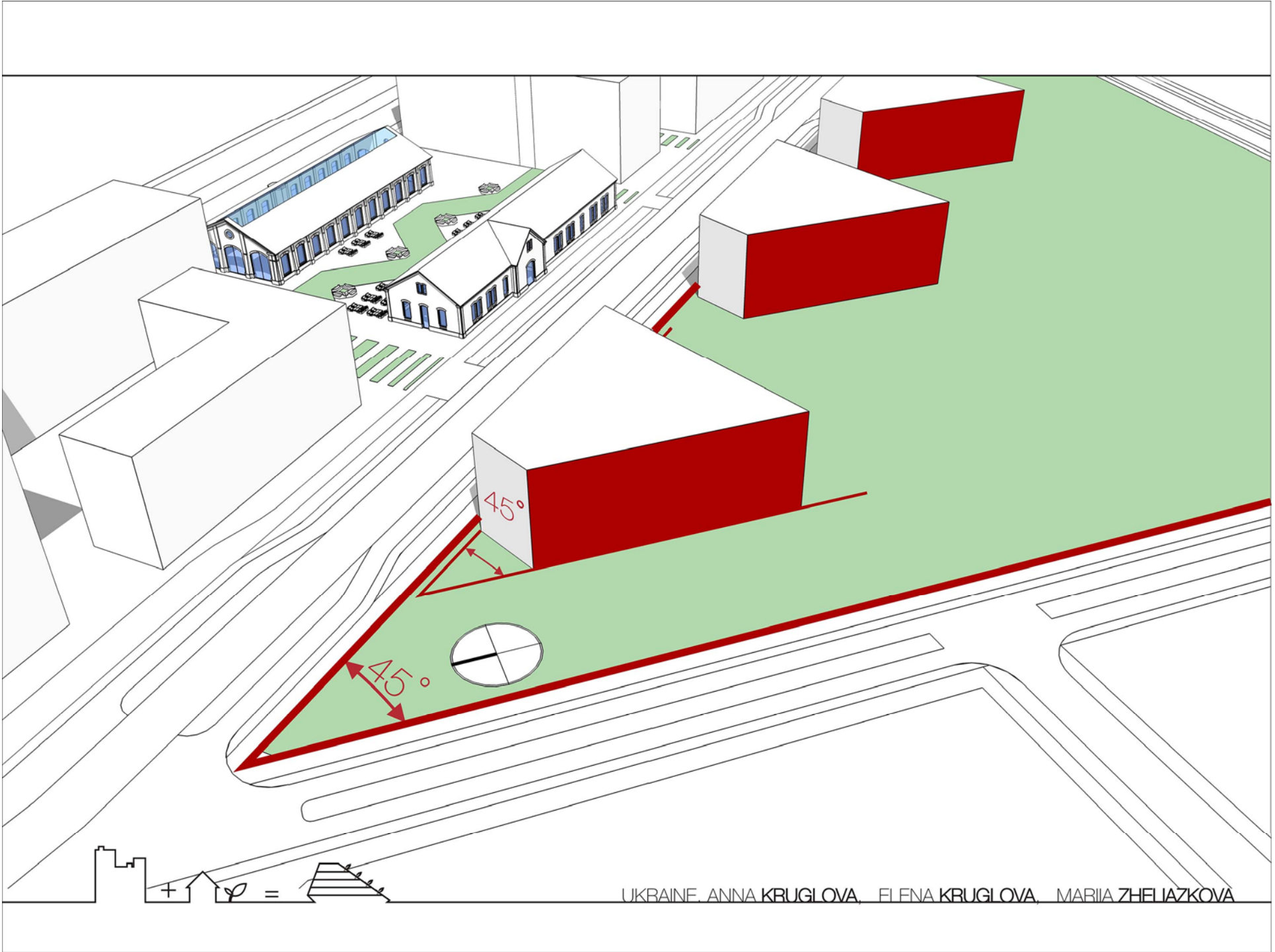
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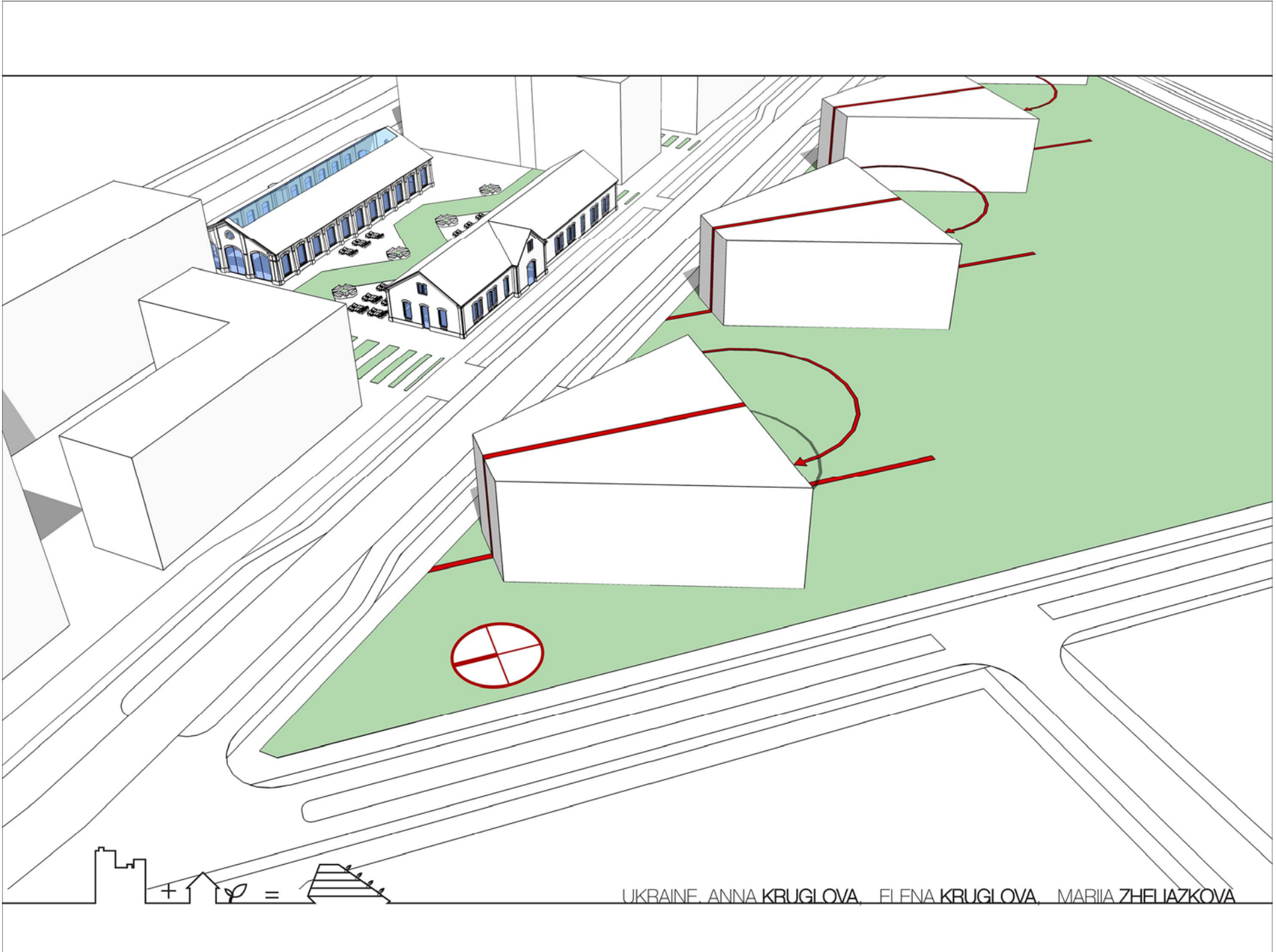


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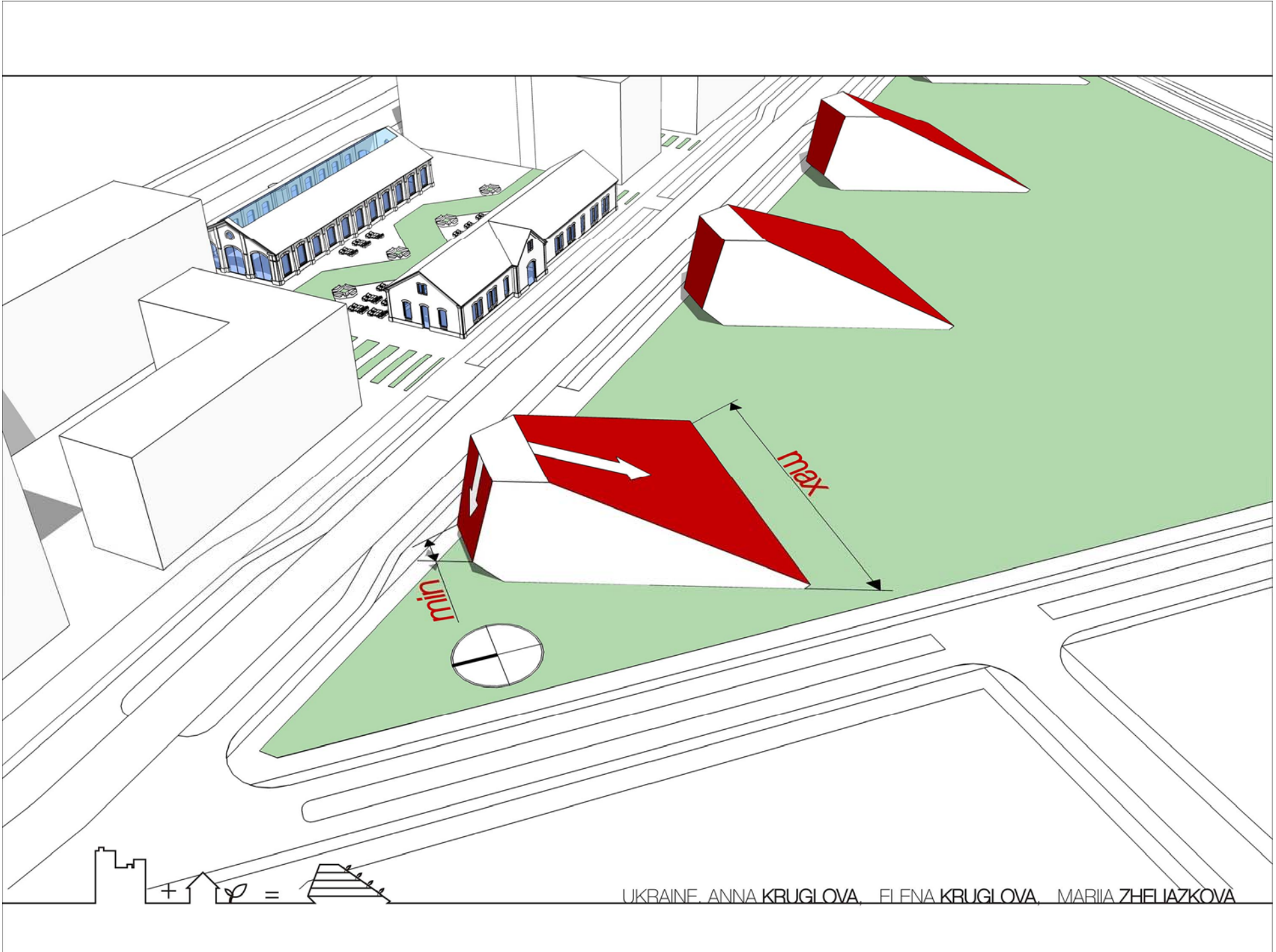


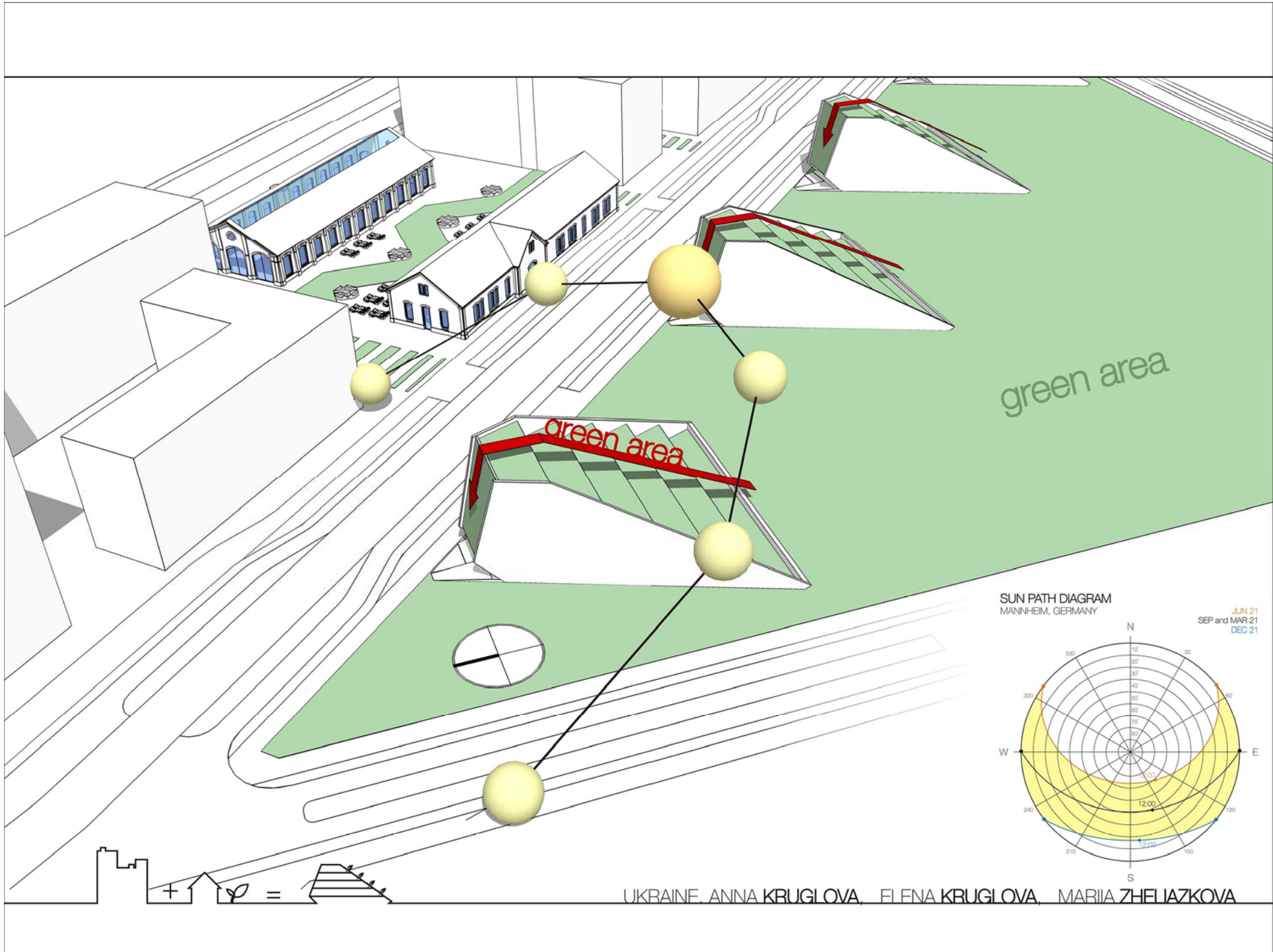
UKRAINE, ANNA KRUGLOVA, FILINA KRUGLOVA, MARIA ZHELIJAZKOVA





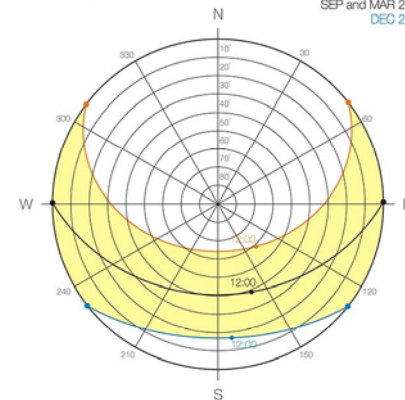
UKRAINE, ANNA KRUGLOVA, ELENA KRUGLOVA, MARIA ZHELIATKOVA



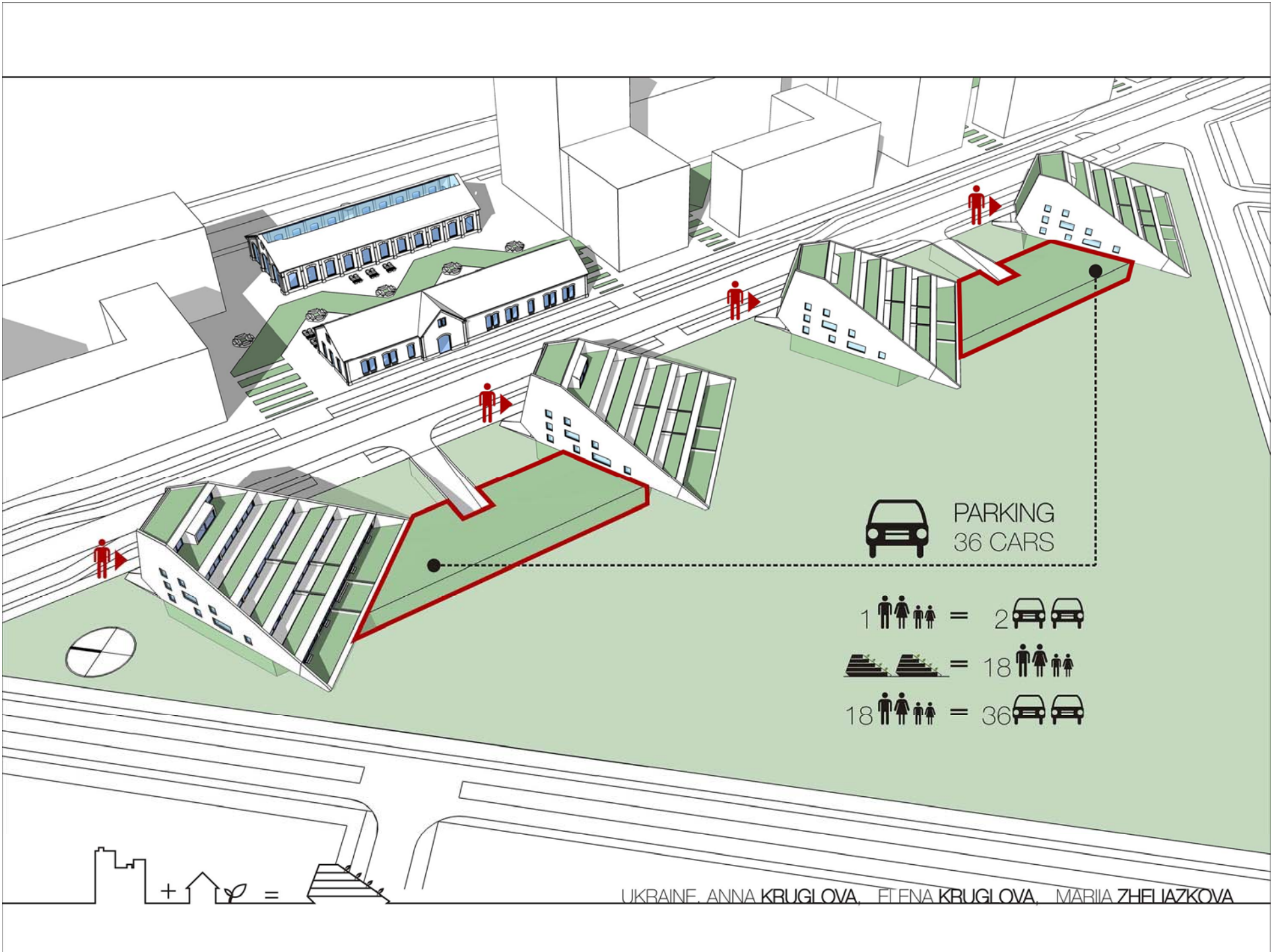


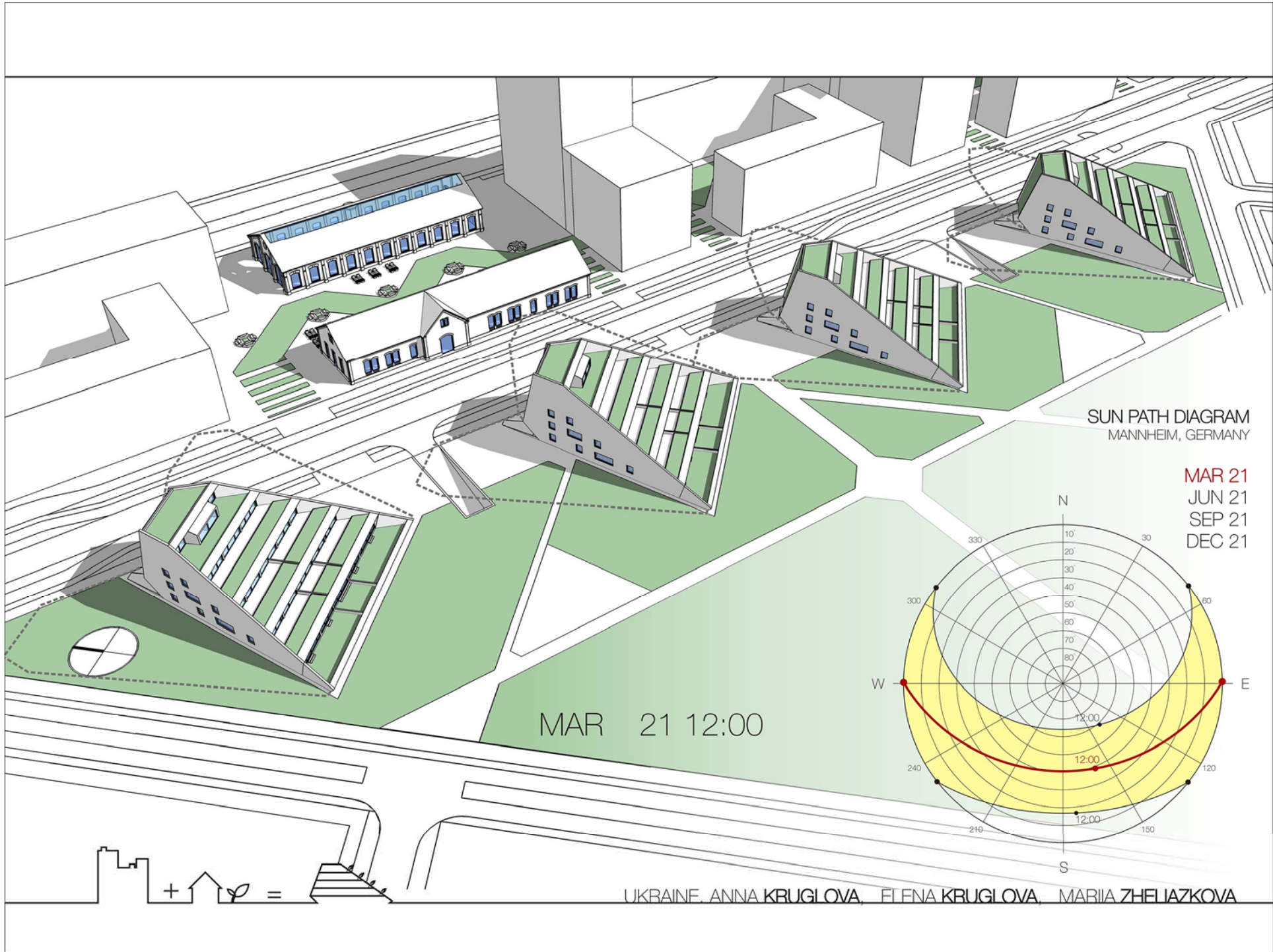
SUN PATH DIAGRAM  
MANNHEIM, GERMANY

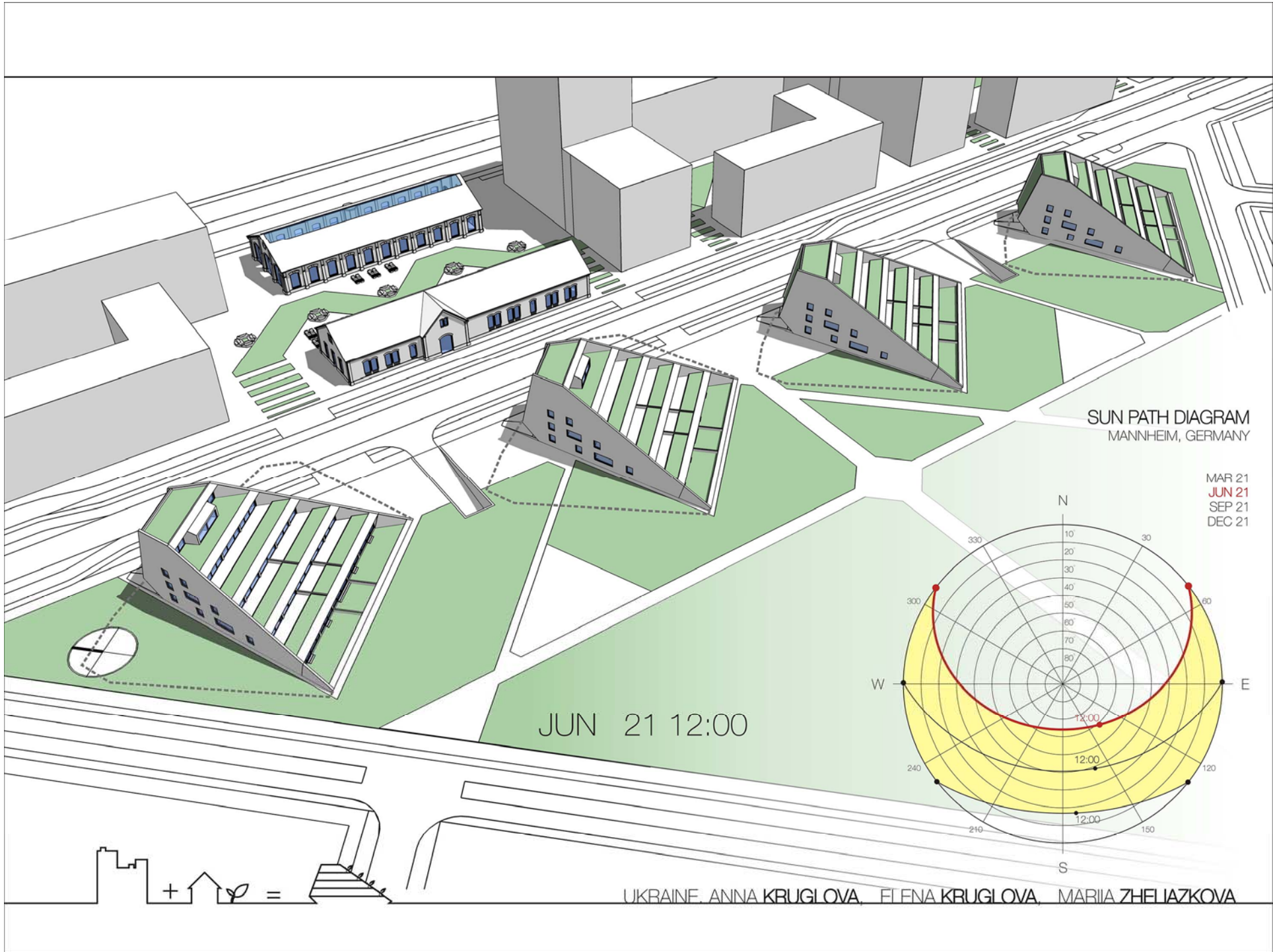
JUN 21  
SEP and MAR 21  
DEC 21



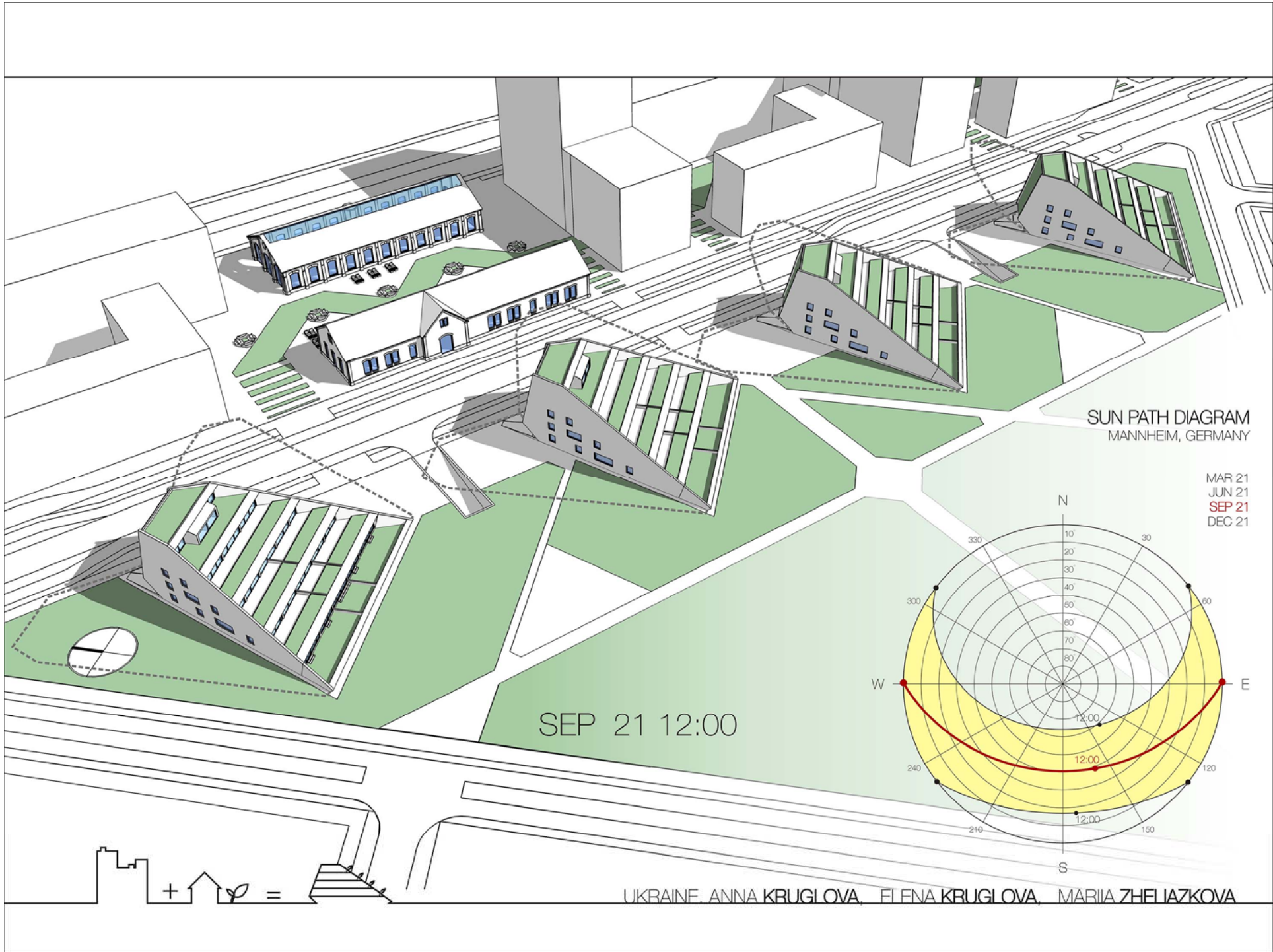
UKRAINE, ANNA KRUGLOVA, FILINA KRUGLOVA, MARIA ZHELIJZKOVA

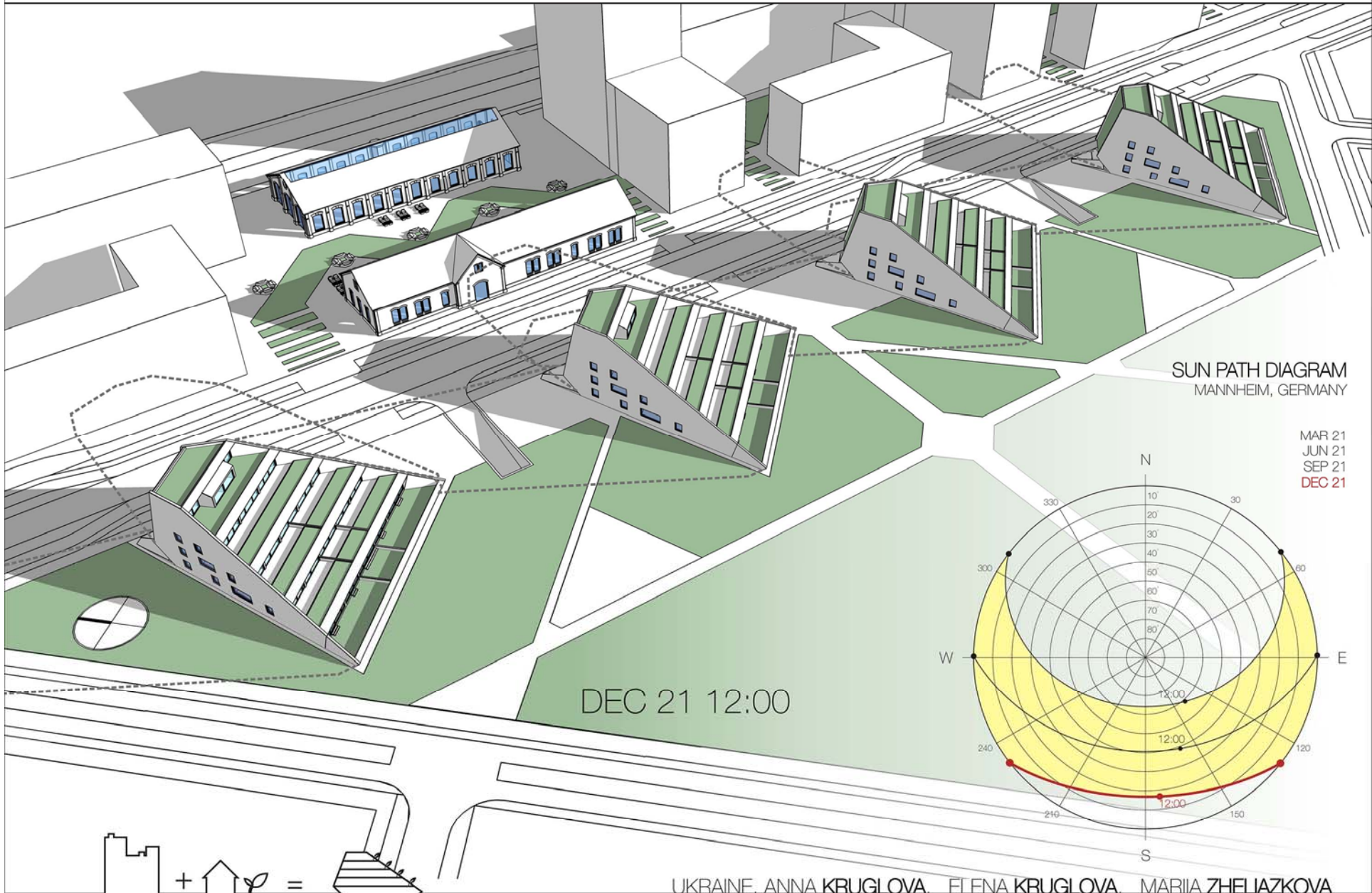












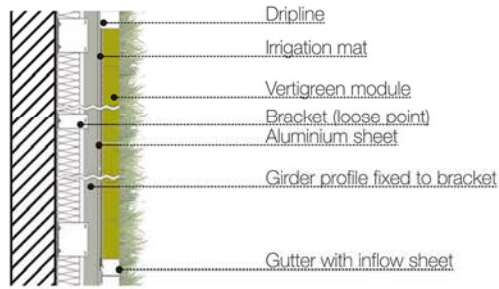
SUN PATH DIAGRAM  
MANNHEIM, GERMANY

- MAR 21
- JUN 21
- SEP 21
- DEC 21

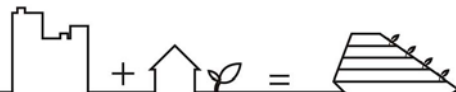
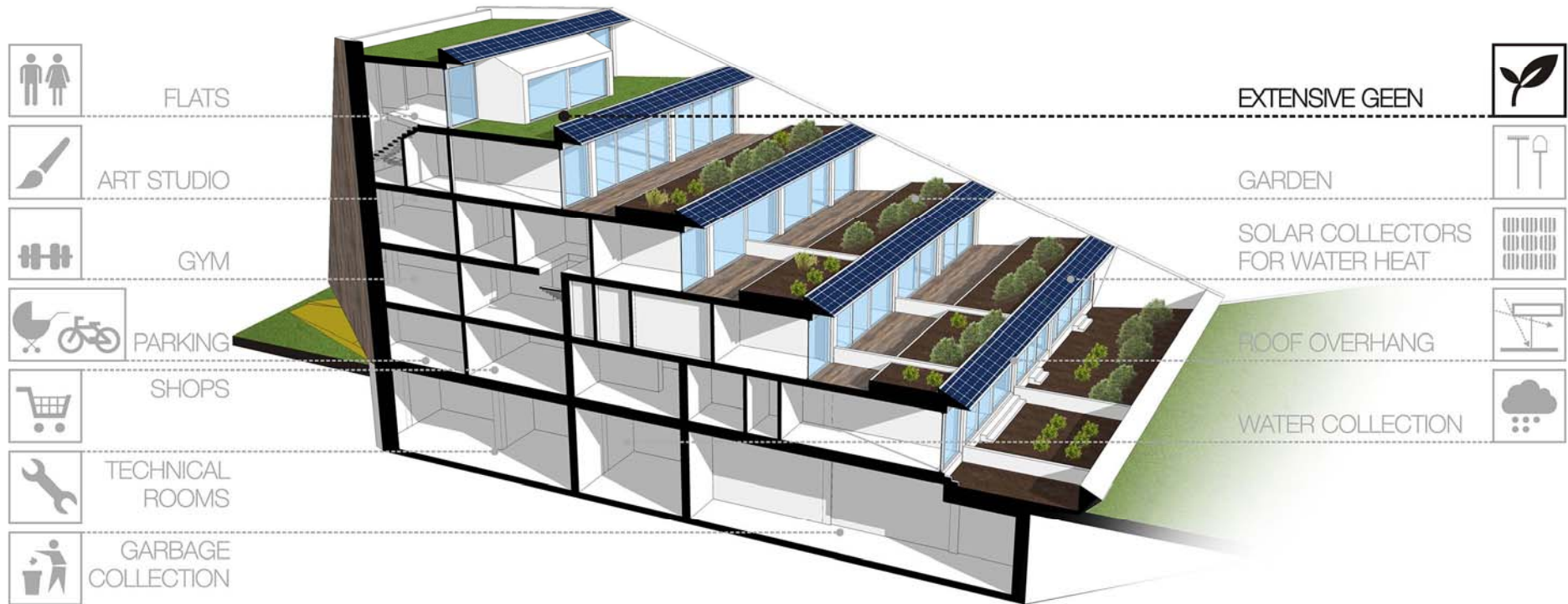
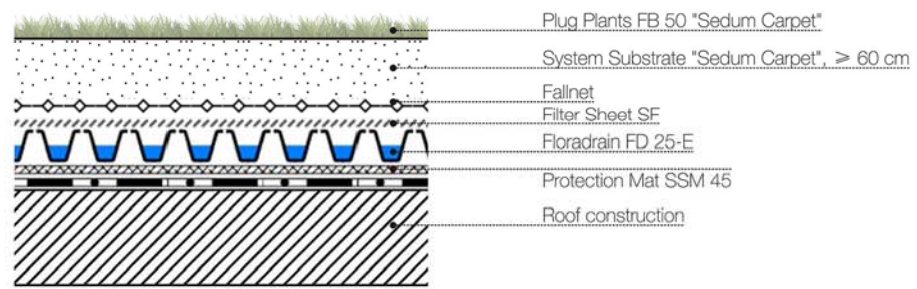
DEC 21 12:00

UKRAINE, ANNA KRUGLOVA, FI FNA KRUGLOVA, MARIA ZHELIAZKOVA

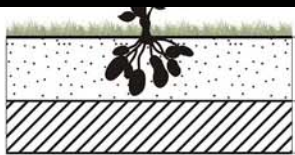
### SYSTEM VERTIGREEN "SEDUM CARPET"



### EXTENSIVE GEEN ROOF "SEDUM CARPET"



UKRAINE, ANNA KRUGLOVA, FI FNA KRUGLOVA, MARIIA ZHELIJAZKOVA



soil 300 mm  
construction



FLATS



ART STUDIO



GYM



PARKING



SHOPS



TECHNICAL  
ROOMS



GARBAGE  
COLLECTION

EXTENSIVE GREEN



GARDEN



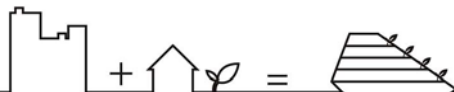
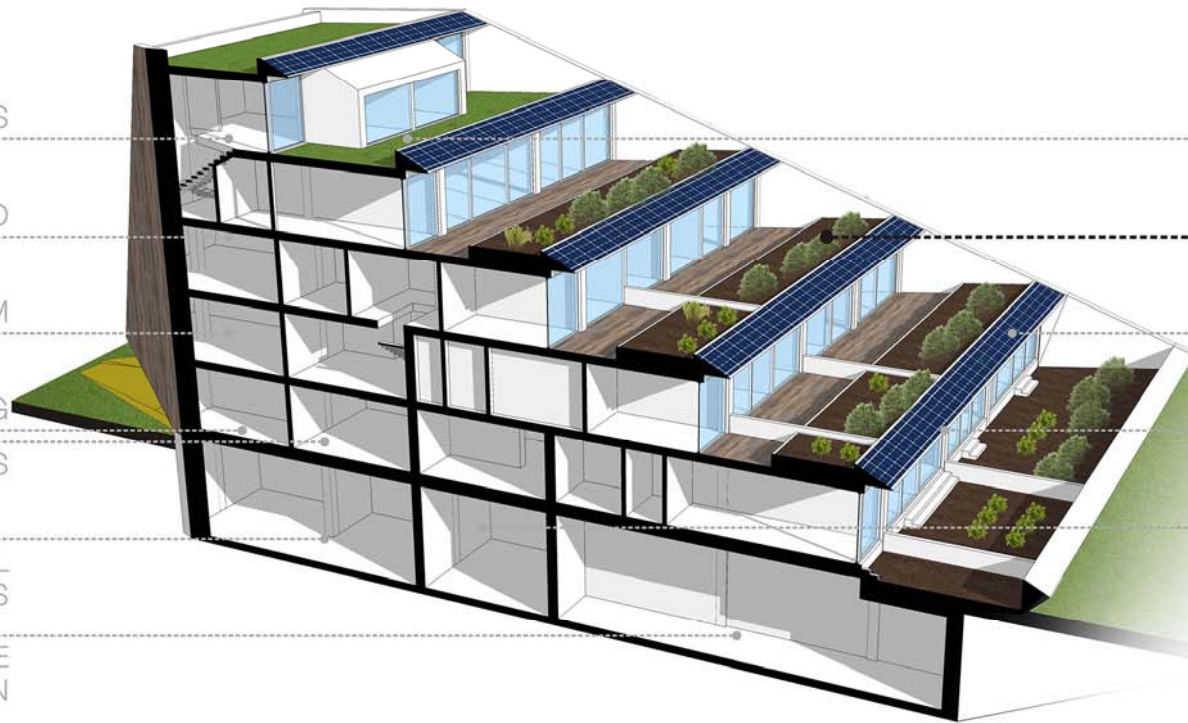
SOLAR COLLECTORS  
FOR WATER HEAT



ROOF OVERHANG



WATER COLLECTION

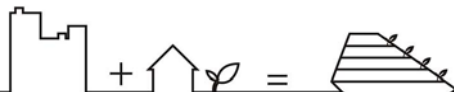
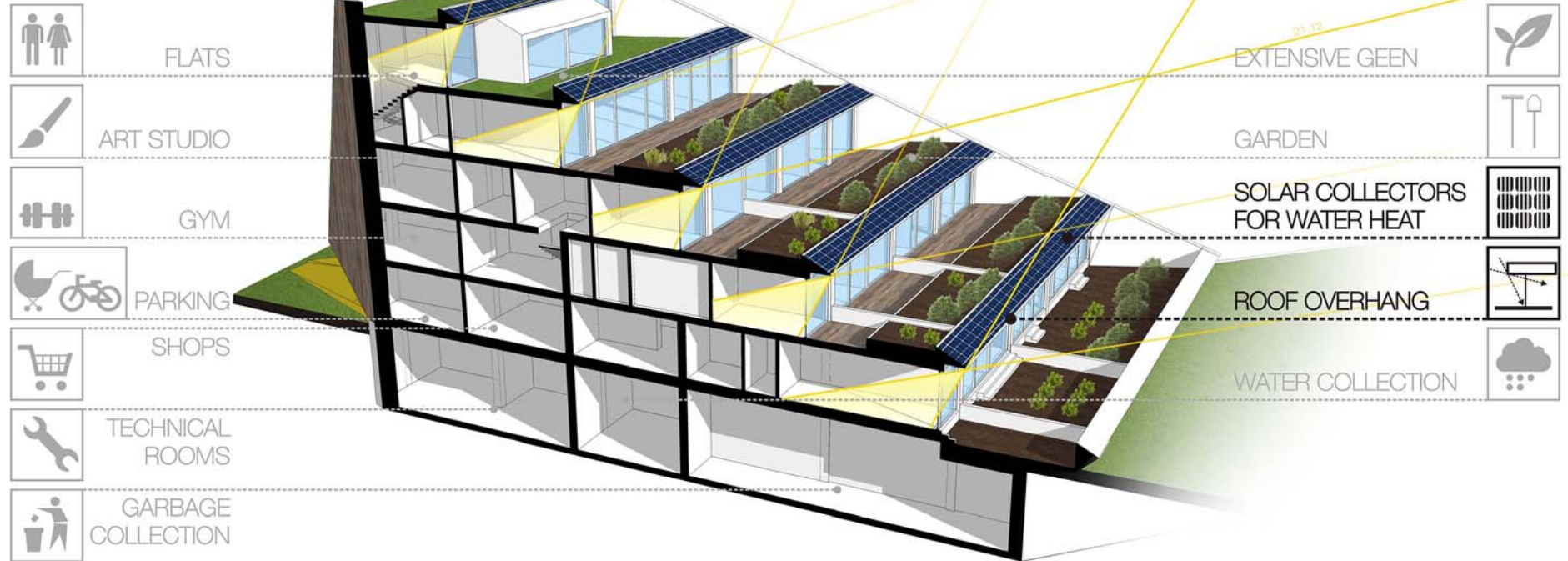
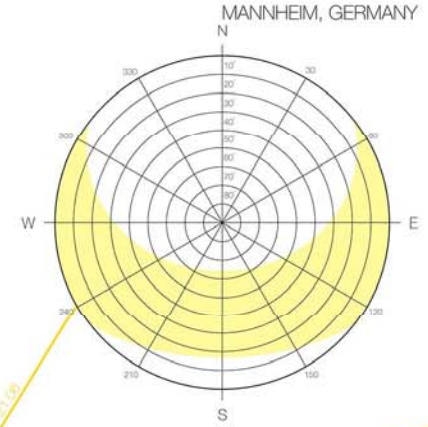


UKRAINE, ANNA KRUGLOVA, FILINA KRUGLOVA, MARIA ZHELIAZKOVA

## WEATHER INDICATORS

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
insolation, kWh/m <sup>2</sup> /day	0.81	1.56	2.48	3.75	4.66	4.91	4.89	4.33	2.88	1.63	0.85	0.62
clearness, 0 - 1	0.33	0.39	0.40	0.43	0.44	0.43	0.44	0.46	0.40	0.34	0.29	0.30
temperature, °C	0.85	1.25	4.31	7.87	12.89	15.83	18.28	18.51	13.88	9.75	4.33	1.64
precipitation, mm	44	40	42	45	57	69	61	66	48	47	51	52
wet days, d	15.2	13.0	14.2	14.0	15.4	14.8	14.0	13.6	11.8	12.5	14.2	15.0

## SUN PATH DIAGRAM

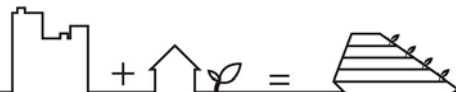
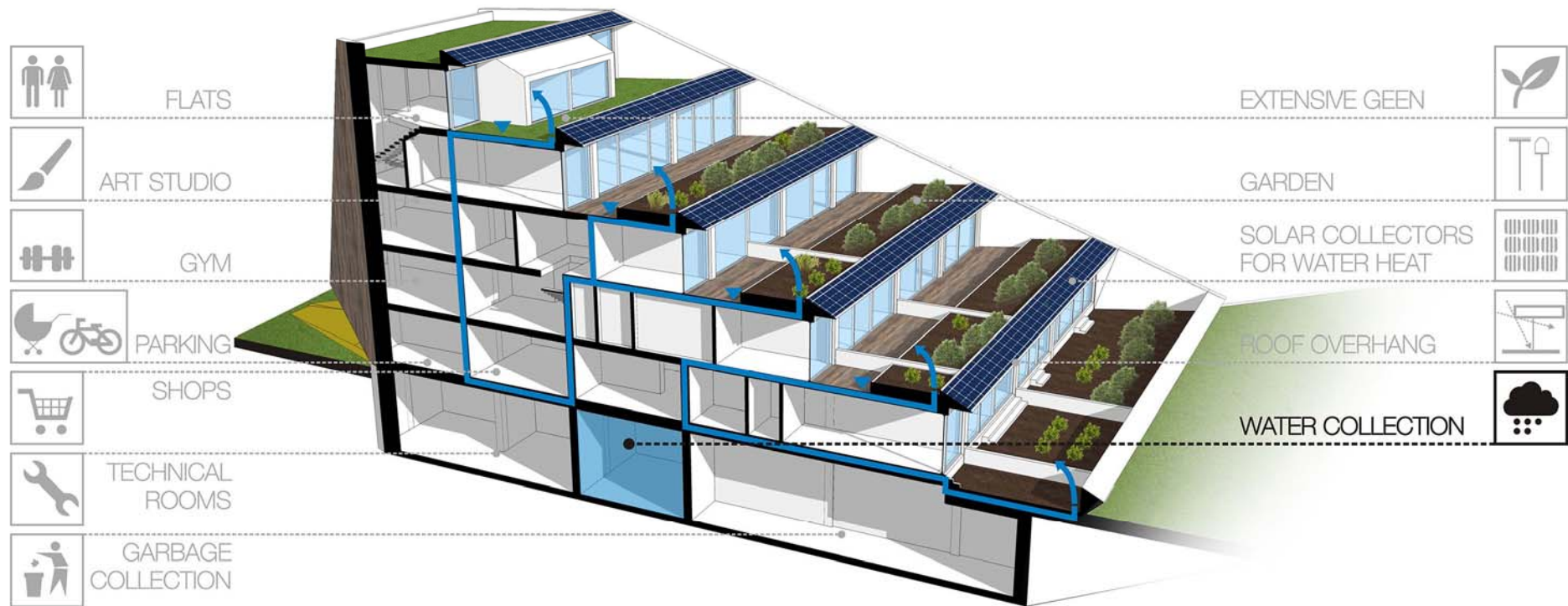
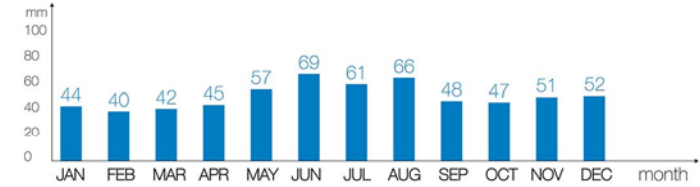


UKRAINE. ANNA KRUGLOVA, FI FNA KRUGLOVA, MARIA ZHELIAZKOVA

## WEATHER INDICATORS

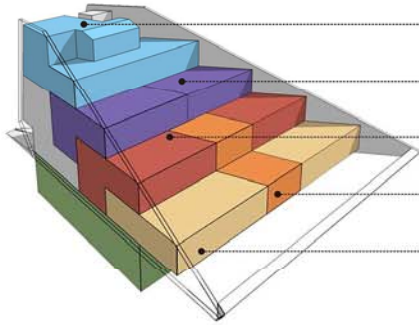
MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
insolation, kWh/m <sup>2</sup> /day	0.81	1.56	2.48	3.75	4.66	4.91	4.89	4.33	2.88	1.63	0.85	0.62
clearness, 0 - 1	0.33	0.39	0.40	0.43	0.44	0.43	0.44	0.46	0.40	0.34	0.29	0.30
temperature, °C	0.85	1.25	4.31	7.87	12.89	15.83	18.28	18.51	13.88	9.75	4.33	1.64
precipitation, mm	44	40	42	45	57	69	61	66	48	47	51	52
wet days, d	15.2	13.0	14.2	14.0	15.4	14.8	14.0	13.6	11.8	12.5	14.2	15.0

## AVERAGE PRECIPITATION



UKRAINE. ANNA KRUGLOVA, FI FNA KRUGLOVA, MARIA ZHELIJAZKOVA

FLAT POSITION IN BUILDING

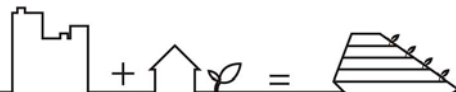
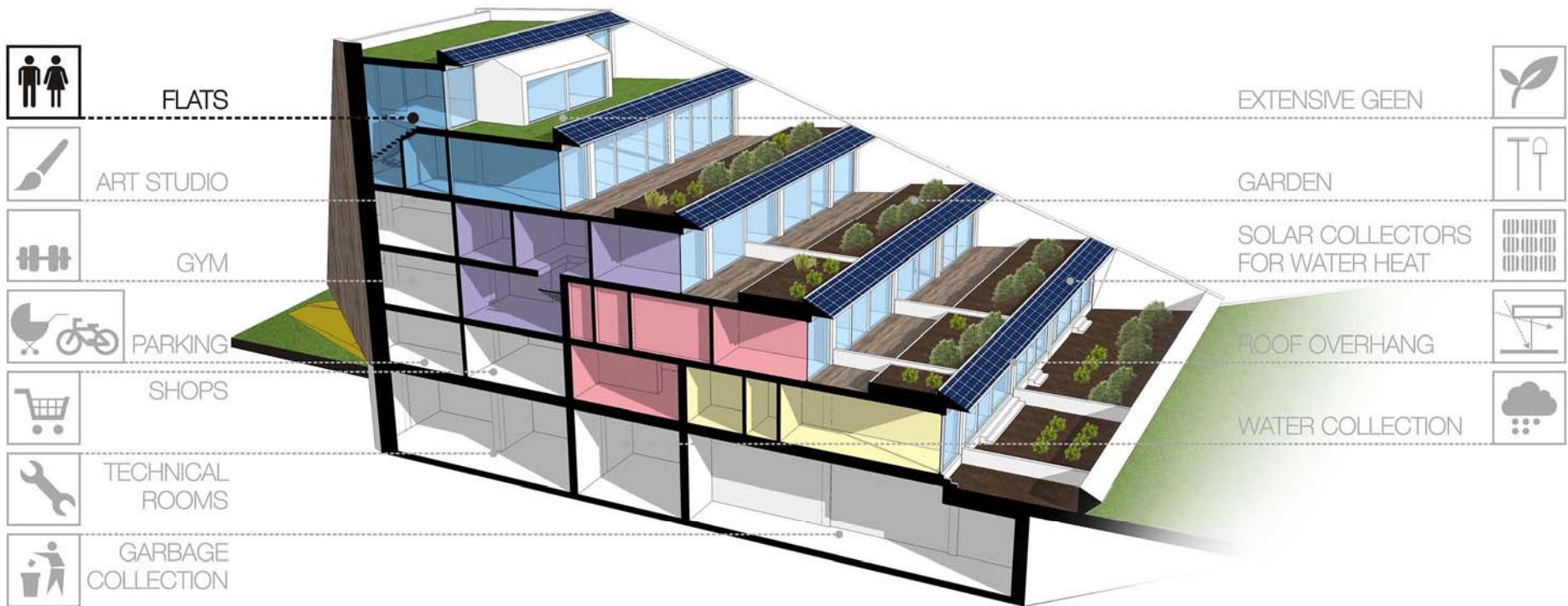


FLAT 1	190.0m <sup>2</sup>	
FLAT 2	178.0m <sup>2</sup>	
FLAT 3	182.0m <sup>2</sup>	
FLAT 4	84.3m <sup>2</sup>	
FLAT 5	148.0m <sup>2</sup>	

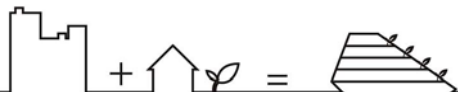
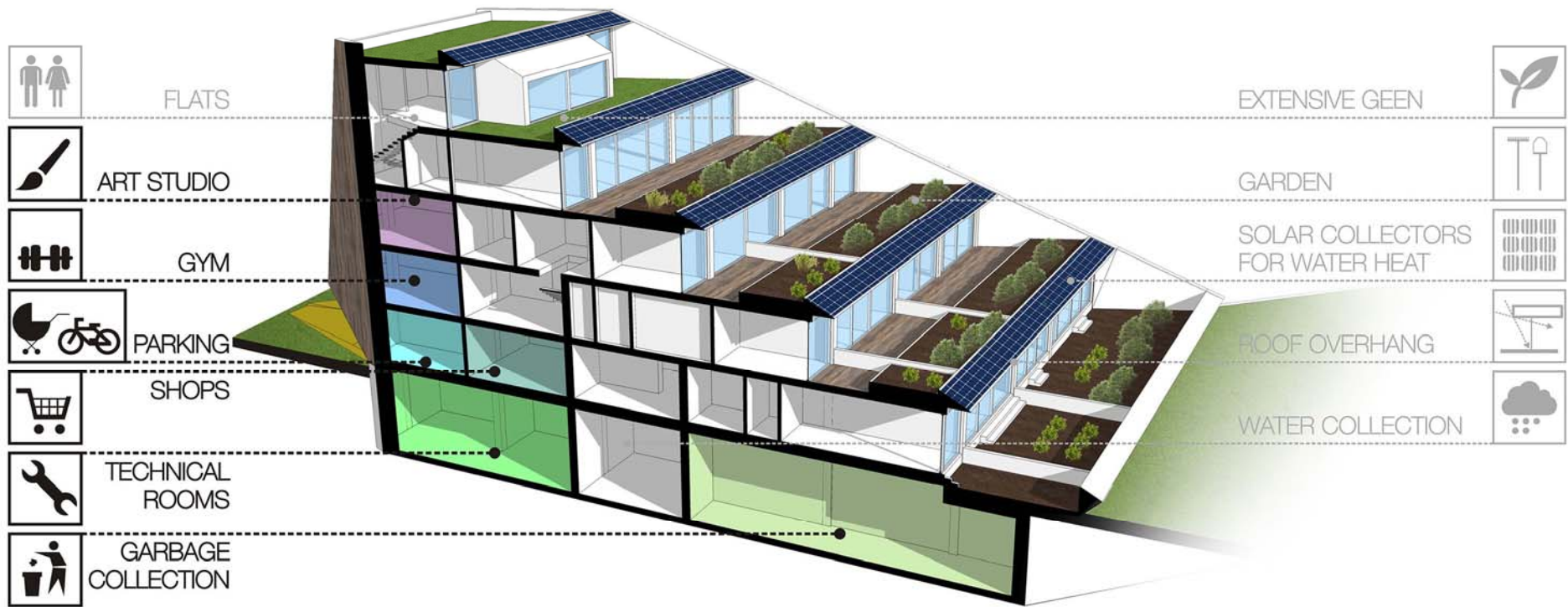
≈ 48.0m<sup>2</sup>

HOUSE ORIENTATION. GLASS SURFACE

SOUTH	320.0m <sup>2</sup>
EAST	25.0m <sup>2</sup>
WEST	25.0m <sup>2</sup>
NORTH	0.0m <sup>2</sup>

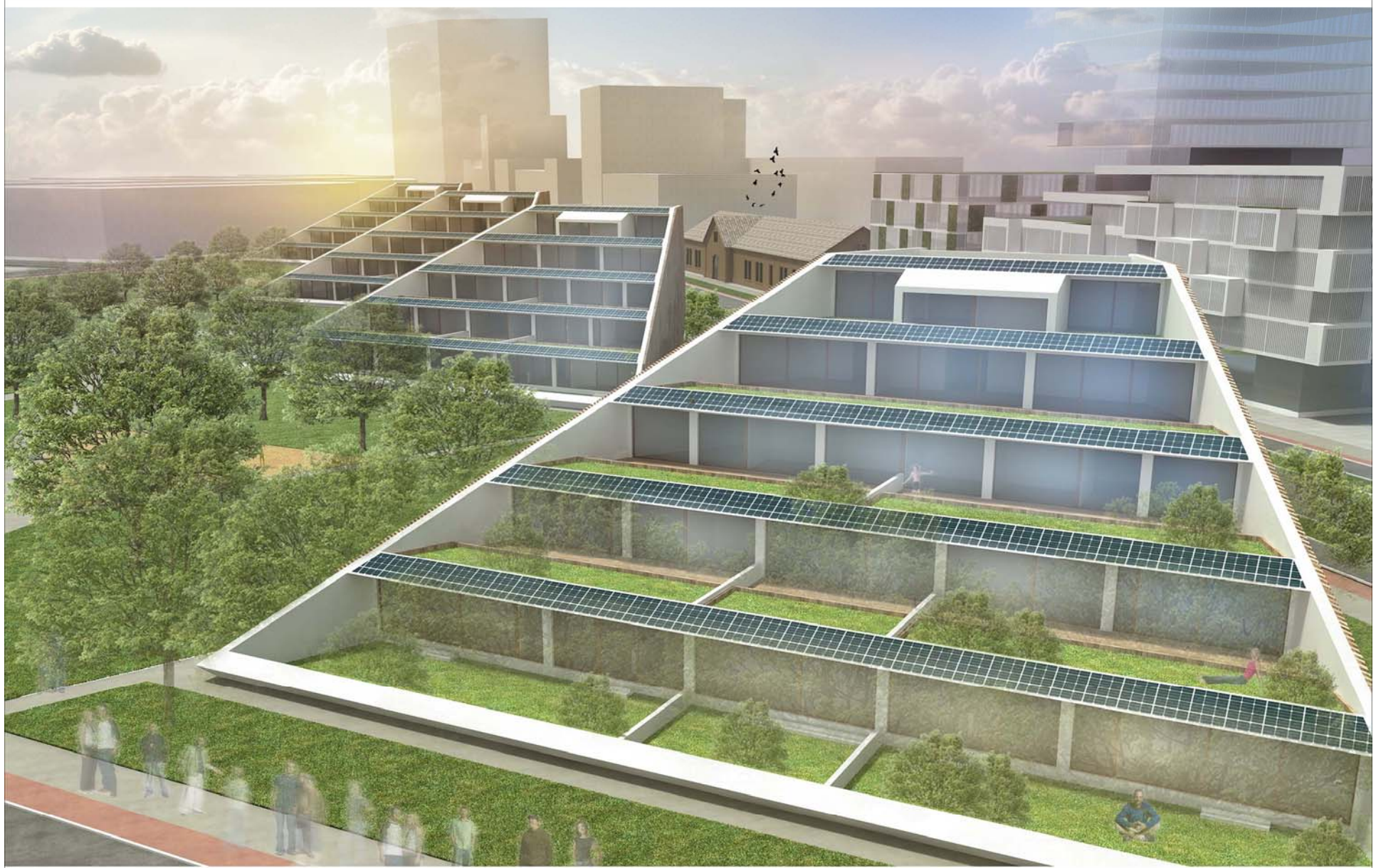


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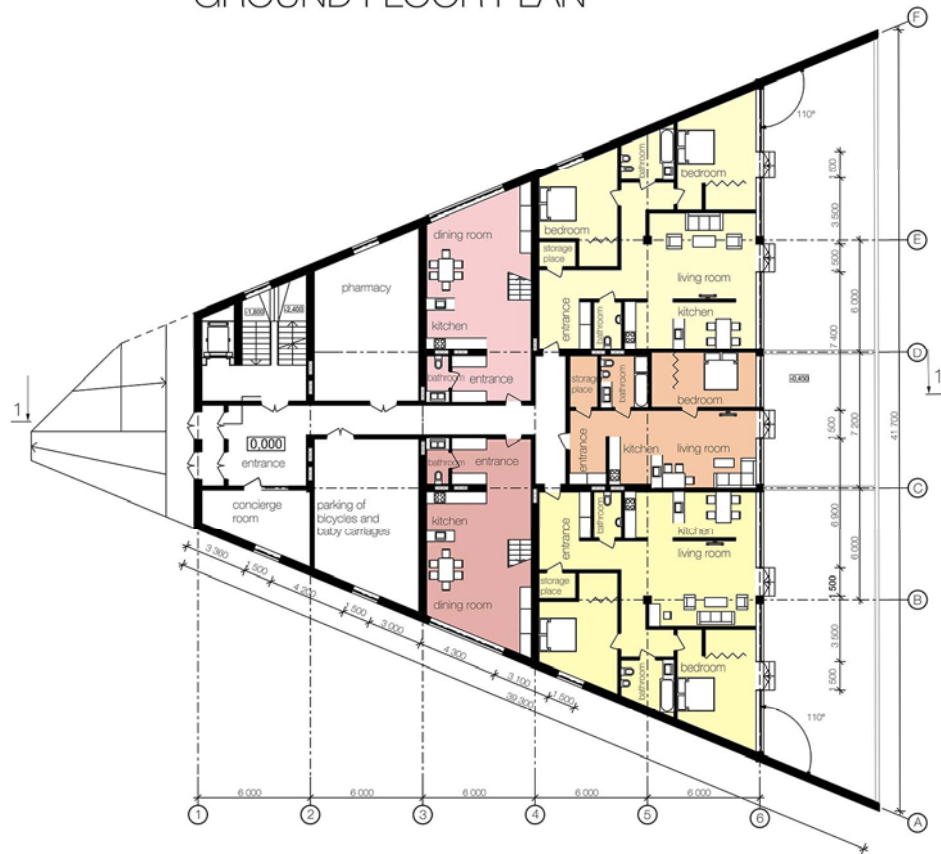


UKRAINE. ANNA KRUGLOVA, FI FNA KRUGLOVA, MARIA ZHELIAZKOVA

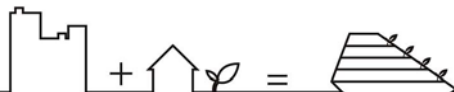
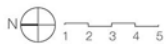




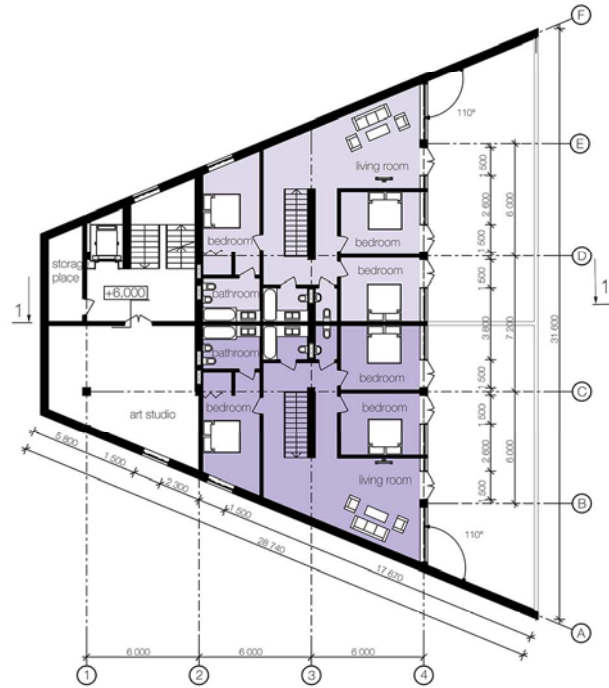
GROUND FLOOR PLAN



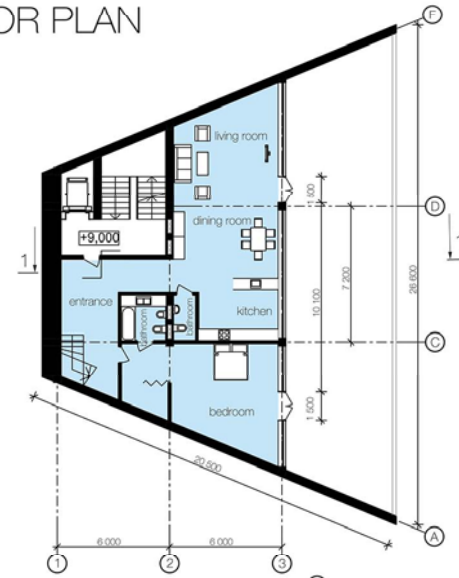
1st FLOOR PLAN



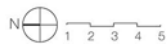
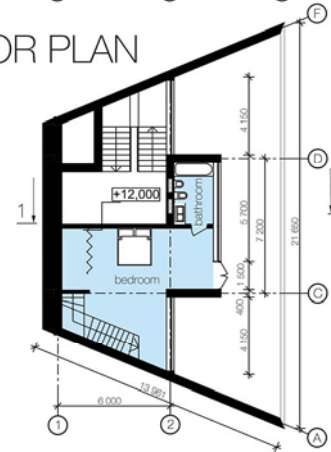
2nd FLOOR PLAN



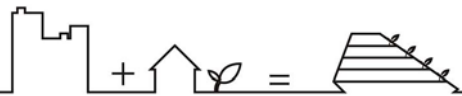
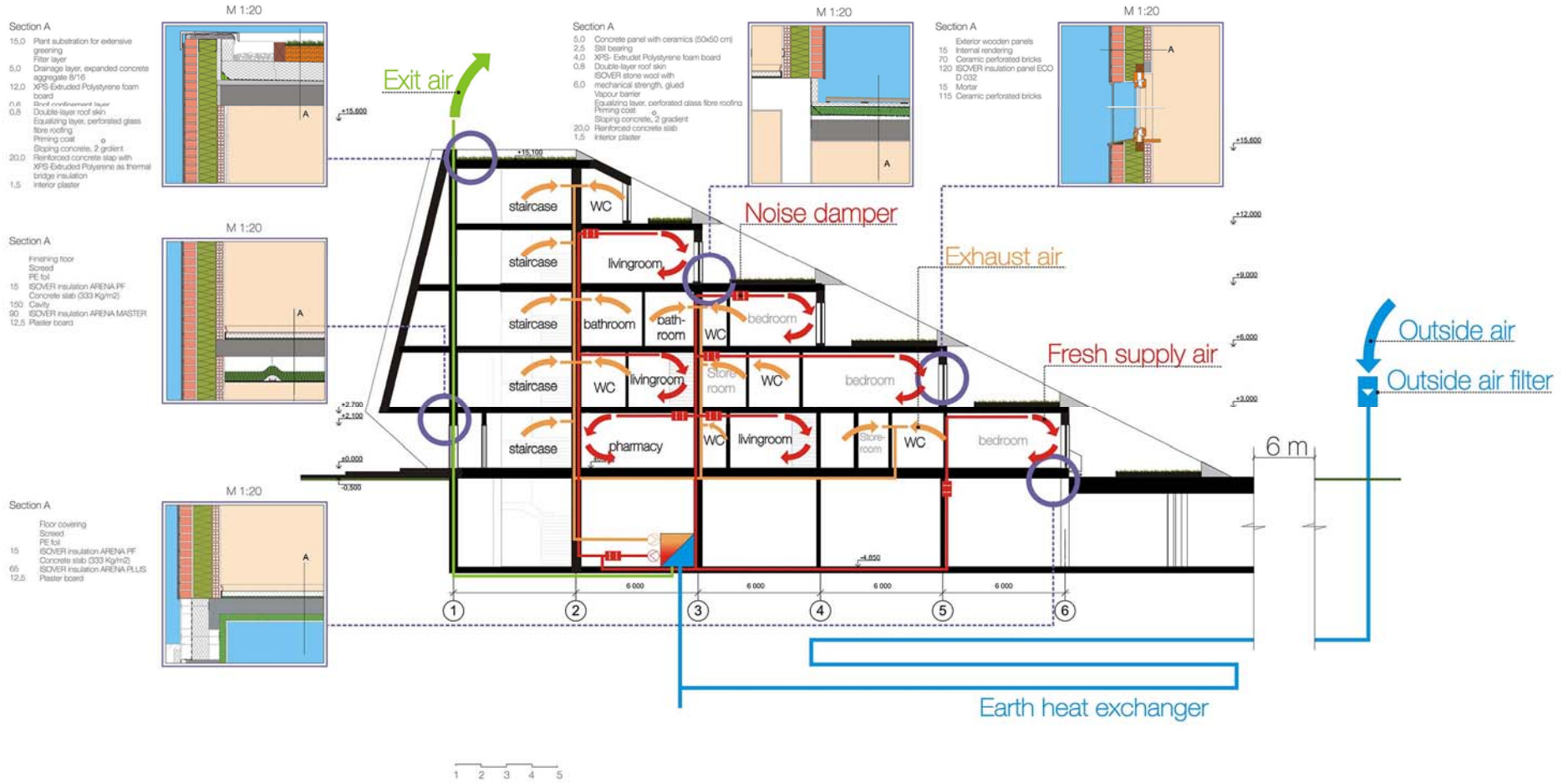
3rd FLOOR PLAN



4th FLOOR PLAN



# Section 1-1



# THANK YOU FOR ATTENTION

