SOLAR HEATED TIN ROOF WITH DOUBLE ROOF ASSEMBLY TO PULL HEAT OUT OF CLASSROOM. PV PANELS CAN PRODUCE ADDITIONAL ELECTRICAL ENERGY.

STUDENTS CAN SEE AIR LIFTING UP THROUGH HANGING FABRIC CEILING. OPERABLE OPENINGS FOR CROSS VENTILATION. MINIMAL OPENINGS AND INSULATED SURFACE TO PREVENT HEAT LOSS. COLD NORTH WINDS IN WINTER.

SLOPED ROOF USED FOR WATER COLLECTION.

LOCATION FOR PROTOTYPE
REYANHLI REFUGEE CAMP, HATAY PROVINCE, TURKEY

REYANHLI IS SITUATED ALONG THE BORDERS OF NORTHERN SYRIA AND SOUTHEAST TURKEY. THIS SITE PRESENTS BOTH MEDITERRANEAN AND DESERT CLIMATIC CONSIDERATIONS.

OBJECTIVES
- PROTECTION, ROBUST APPEARANCE, AND PRIVACY
- LOCAL MATERIALS, MODULAR ASSEMBLY, AND RECONFIGURABILITY
- SHADE, CROSS VENTILATION, AND WATER COLLECTION
- POST CONFLICT STRATEGY

ACCESSION TO UTILIZATION AND SERVICES
- BZRDER TO SHELTER TO SHELTER TO SHELTER, THE SCHOOLS PROVIDE AN ADDITIONAL CLASSROOM FOR VISITING MEDICAL CARE AND EDUCATION OF THE HUMAN BODY.

TACTILE ENVIRONMENT FOR LEARNING
- TO CREATE A MORE STIMULATING AND DIVERSE LEARNING ENVIRONMENT, THE INTERIOR OF THE BUILDING UTILIZES DIVERSE MATERIALS LIKE PLYWOOD FINISHES AND SCRAP WOOD FLOORING. INTERIOR CHALKBOARDS AND PIN BOARD WALL FINISHES ALLOW STUDENTS TO DISPLAY WORK AND SHARE IDEAS.

ACCESS TO HEALTH EDUCATION AND SERVICES
- IN ORDER TO HELP STUDENTS STAY HEALTHY, THE SCHOOL PROVIDES AN ADDITIONAL CLASSROOM FOR VISITING MEDICAL CARE AND EDUCATION OF THE HUMAN BODY.

TACTILE ENVIRONMENT FOR LEARNING
- TO CREATE A MORE STIMULATING AND DIVERSE LEARNING ENVIRONMENT, THE INTERIOR OF THE BUILDING UTILIZES DIVERSE MATERIALS LIKE PLYWOOD FINISHES AND SCRAP WOOD FLOORING. INTERIOR CHALKBOARDS AND PIN BOARD WALL FINISHES ALLOW STUDENTS TO DISPLAY WORK AND SHARE IDEAS.

LOCAL MATERIALS, MODULAR ASSEMBLY, AND RECONFIGURABILITY
- PROPERTIES FOR THE MODULAR BUILDING UNITS ARE ASSEMBLED USING DIMENSIONAL LUMBER AND AFFORDABLE MATERIALS PRODUCED IN THE REGION. THEY CAN BE ADJUSTED DIMENSIONALLY AND RELOCATED FOR SHIFTING SPATIAL NEEDS.

SHADING, PASSIVE CONDITIONING, AND WATER COLLECTION
- TO CREATE A CONDUCIVE ENVIRONMENT FOR LEARNING WITH MINIMAL UTILITIES, THIS PROPOSAL USES RECYCLED ROPE SHADING DEVICES OF VARIOUS FORMS. HEAT INDUCED VENTILATION COMBINED WITH CROSS VENTILATION, HEAVILY INSULATED, SOLID WALLS FOR SWING TEMPERATURE AND WINTER WEATHER. A COURTYARD SCHEME IS UTILIZED TO CREATE COOLER AIR AND INCREASE OUTDOOR SHADED AREA.

POST CONFLICT STRATEGY
- AFTER THE REFUGEE CAMPS ARE NO LONGER NEEDED OR LESS FLEXIBILITY IN LIVING ARRANGEMENTS ARE NEEDED, THESE BUILDING MODULES HAVE BEEN ASSEMBLED WITH SPACE FOR DUCTWORK, PLUMBING, AND SOLAR PANEL INSTALLATION.

PROGRAM
- HEALTH AND THE HUMAN BODY CLASSROOM
- PRIMARY CLASSROOM
- PRIVATE CLASSROOM
- PRIVATE CLASSROOM AND STUDENT TO TEACHER CONFERENCE SPACE
- SHARED CURTAIN WATTLE FOR OUTDOOR READING AND MAKING
- STUDENT FOOD PREP
- KITCHEN
- UTILITY ROOM
- ADMINISTRATIVE OFFICE
- ENCLOSED CLASSROOM
- FOLDING WALLS FOR PRIVACY
- PRAYER SPACE
- GBQA

SITE PLAN IN REYANHLI REFUGEE CAMP
SOURCE: CAMP LOCATED ON GOOGLE MAPS BY HTTP://DATA.UNHCR.ORG/