



PRECEDENT STUDY : TELEGRAPH POLE HOUSE

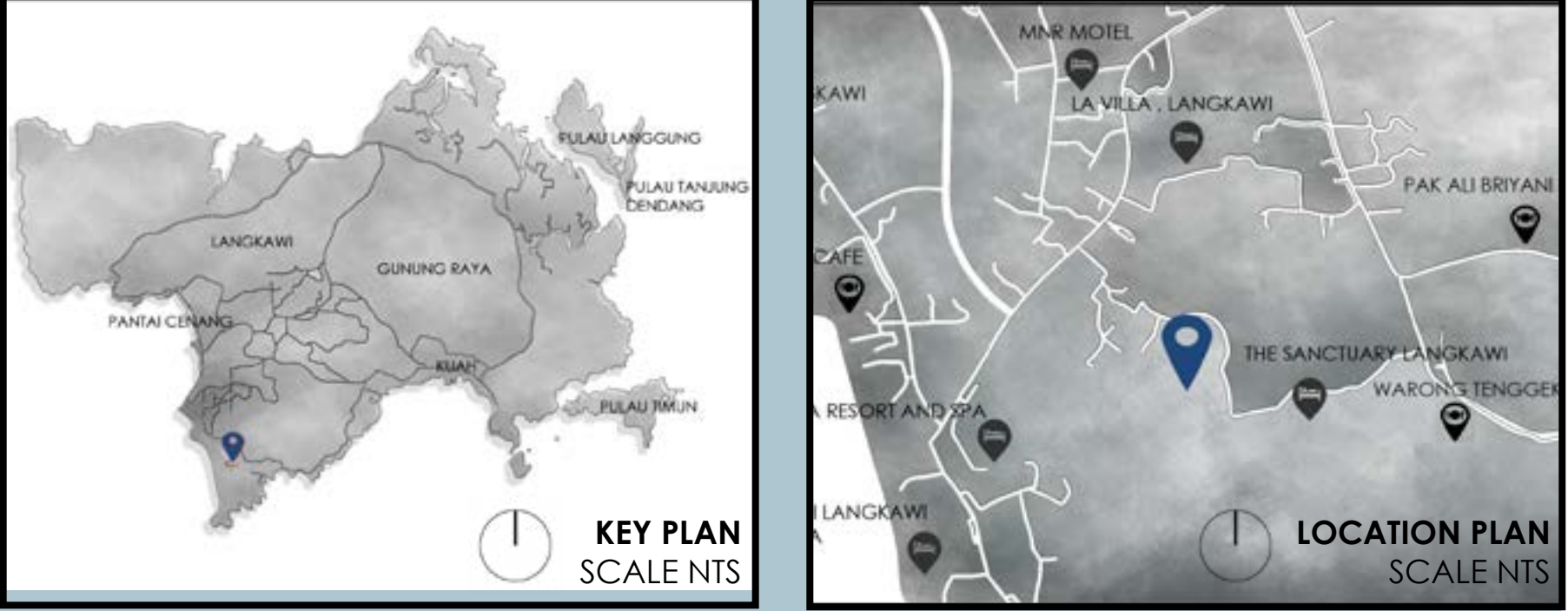
LOCATION - LANGKAWI ISLAND
COORDINATES - 6.286186, 99.737602
YEAR COMPLETED - 2009
AREA - 580.6 sqm
ARCHITECTS - WHBC Architects
CLIENTS - BOB GABRIEL & ANGELA GABRIEL

IT ALL STARTED IN YEAR 2005, THE BRITISH COUPLE BOB AND ANGELA GABRIEL WAS SEARCHING FOR A PEACEFUL PLACE TO ENJOY THE REST OF THEIR RETIREMENT YEARS. LANGKAWI ISLAND WAS THEIR IDEAL OPTION. THE CURRENT SITE WAS INTRODUCED BY A LAND AGENT AND THE COUPLE LOVED IT VERY MUCH.

CLIENTS' BRIEF
- A FORM OF SARAWAK LONG HOUSE
- AVOID FROM CUTTING DOWN TREES

ARCHITECTS PROPOSALS
- ONE ROOM WIDE DWELLING
- ROOMS RAISED ON STILTS
- GROUND FLOOR OPEN TO BREEZE
- HUGE OVERHANG
- WIDE VERANDAHS ON LONG ELEVATIONS
- TIMBER STAIRS WITH STEEL RODS WITH LOCKABLE GATE AT THE BASE

CLIENTS AND ARCHITECTS APPROVALS
- BUILDING MAINLY FROM RECLAIMED TIMBER MATERIALS
- ENTRANCE OF SITE WITH UPHILL ROAD TO MINIMISE CHOPPING OF TREES



SITE DATA : LANGKAWI ISLAND

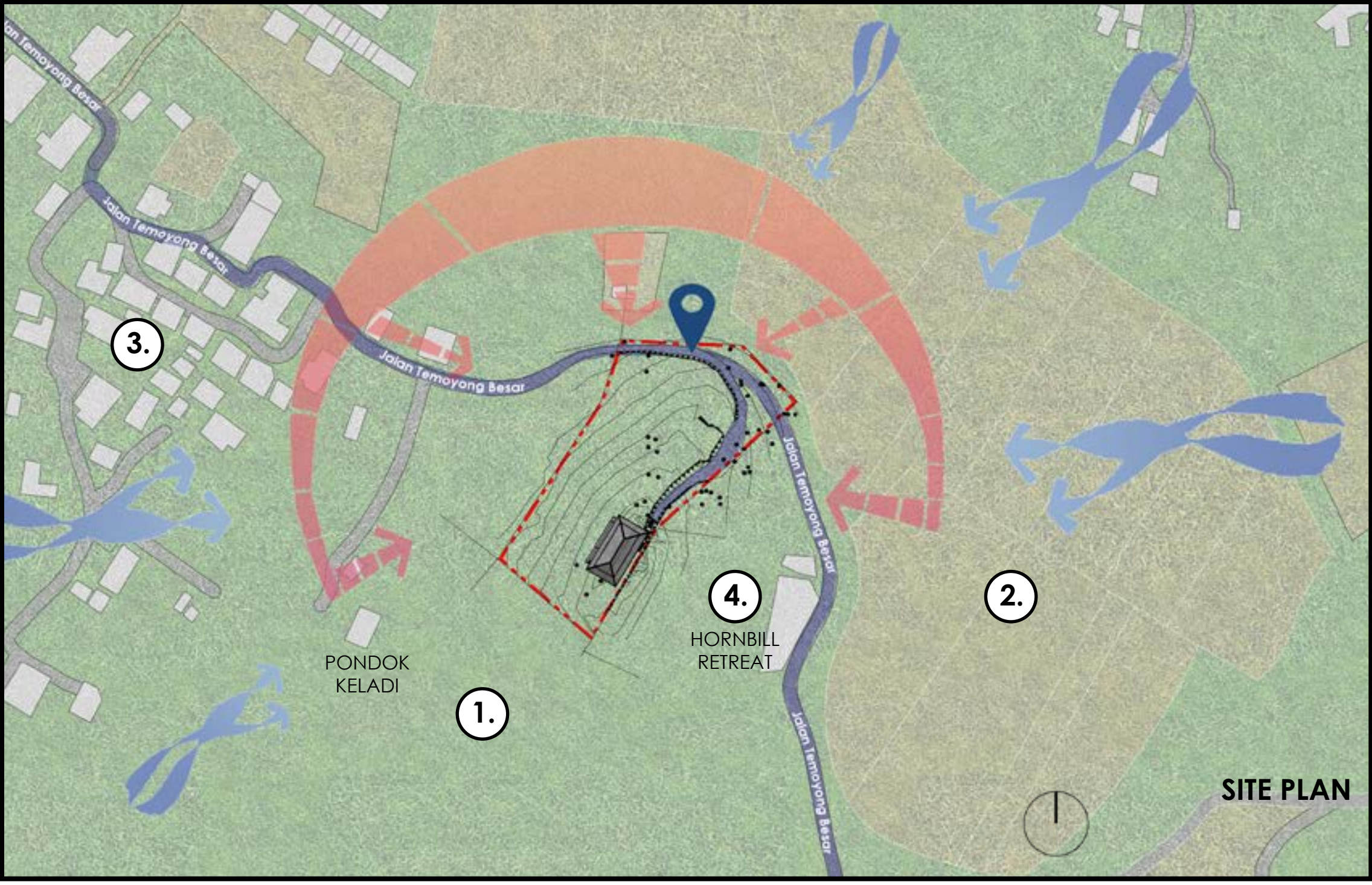
SUN PATH	TEMPERATURE	WIND SPEED	RELATIVE HUMIDITY & PRECIPITATION
SUNRISE DURATION • WITHIN 0700 TO 0730	AVERAGE HIGH TEMPERATURE • 30°C TO 35°C • HIGHEST : 39°C	APRIL TO NOVEMBER • LIGHT BREEZE • 4 KNOTS (7.4 km/h)	RAINY SEASON (215 DAYS / MONTH) • APRIL TO NOVEMBER • AVG. PPT. : 100mm - 380mm • HUMIDITY : 81% - 85%
SUNSET DURATION • WITHIN 1900 TO 1940	AVERAGE LOW TEMPERATURE • 24°C TO 25°C • LOWEST : 19°C	DECEMBER TO MARCH • MODERATE BREEZE • 5-8 KNOTS (9.0 - 11.0 km/h)	DRY SEASON (110 DAYS / MONTH) • DECEMBER TO MARCH • AVG. PPT. : 50mm - 150mm • HUMIDITY : 70% - 76%

SITE CONTEXT



- LEGEND**
1. FOREST AREA
 2. PADDY FIELDS
 3. MALAY VILLAGE HOMESTAYS
 4. SWIMMING POOL
- SUN PATH
WIND DIRECTION
ENTRANCE POINT
MAIN ACCESS ROAD
COUNTOUR

- PEACEFUL ENVIRONMENT
THE COMBINATION THESE NATURAL AND MAN MADE CONTEXT EXPRESSES SERENITY AND PEACEFULNESS, IN A CONTRAST WITH THE BUSY LIFE IN KUALA LUMPUR CITY. THESE CONTEXT ARE THE MAIN ELEMENTS THAT REFLECT THE DESIGN OF THE TELEGRAPH POLE HOUSE

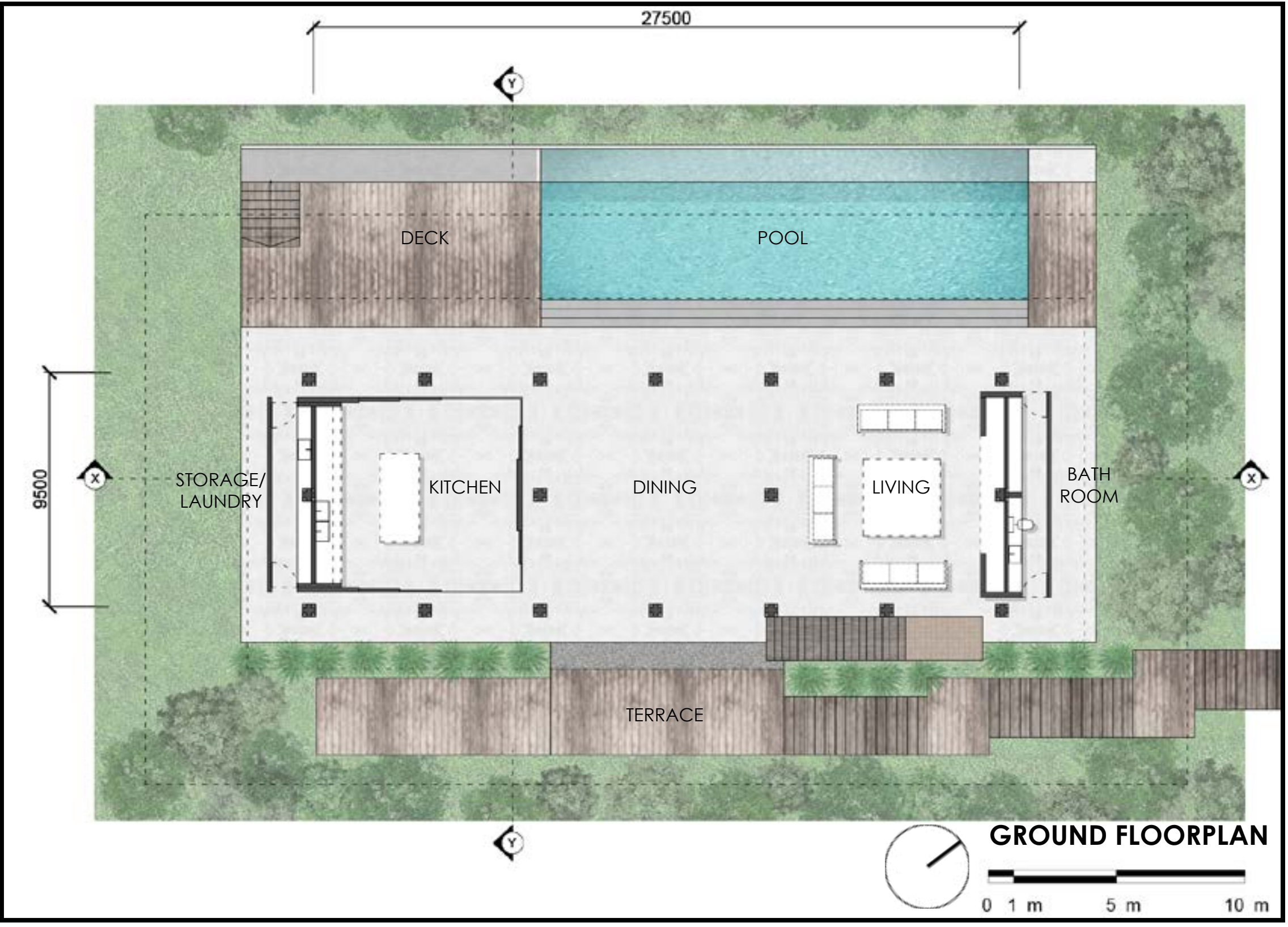


S.W.O.T ANALYSIS

- STRENGTH**
- HIGH GROUNDS
BETTER AIR FLOWS, LOW RISK OF GETTING FLOODED.
 - LUSH GREENS
NATURE LANDSCAPES CAN IMPLEMENT INTO BUILDING DESIGN
- WEAKNESS**
- ACCESS ISSUES
PEOPLE HAVE TO HIKE A CERTAIN DISTANCE IN A STEEP GRADIENT.
 - ACCESS ROADS ARE POORLY MAINTAINED, NOT SUITABLE FOR CERTAIN TYPES OF VEHICLES.
- OPPORTUNITY**
- EXCELLENT SCENERY
HIGHER LEVELS COULD CAPTURE MULTIPLE VIEWS AND CONTEXT AROUND.
 - PEACEFUL ENVIRONMENT
QUIET AND ISOLATED AREA PROMOTES SERENITY.
- THREAT**
- PESTS & WILD ANIMALS
PESTS LIKE MOSQUITOES COULD BE ACTIVE AROUND THE LUSH GREEN SURROUNDINGS, CAUSING SPREAD OF DISEASE. WILD ANIMALS LIKE MONKEY OR SNAKES WILL INVADE THE AREA, MOSTLY FOR FOOD

DESIGN FEATURES

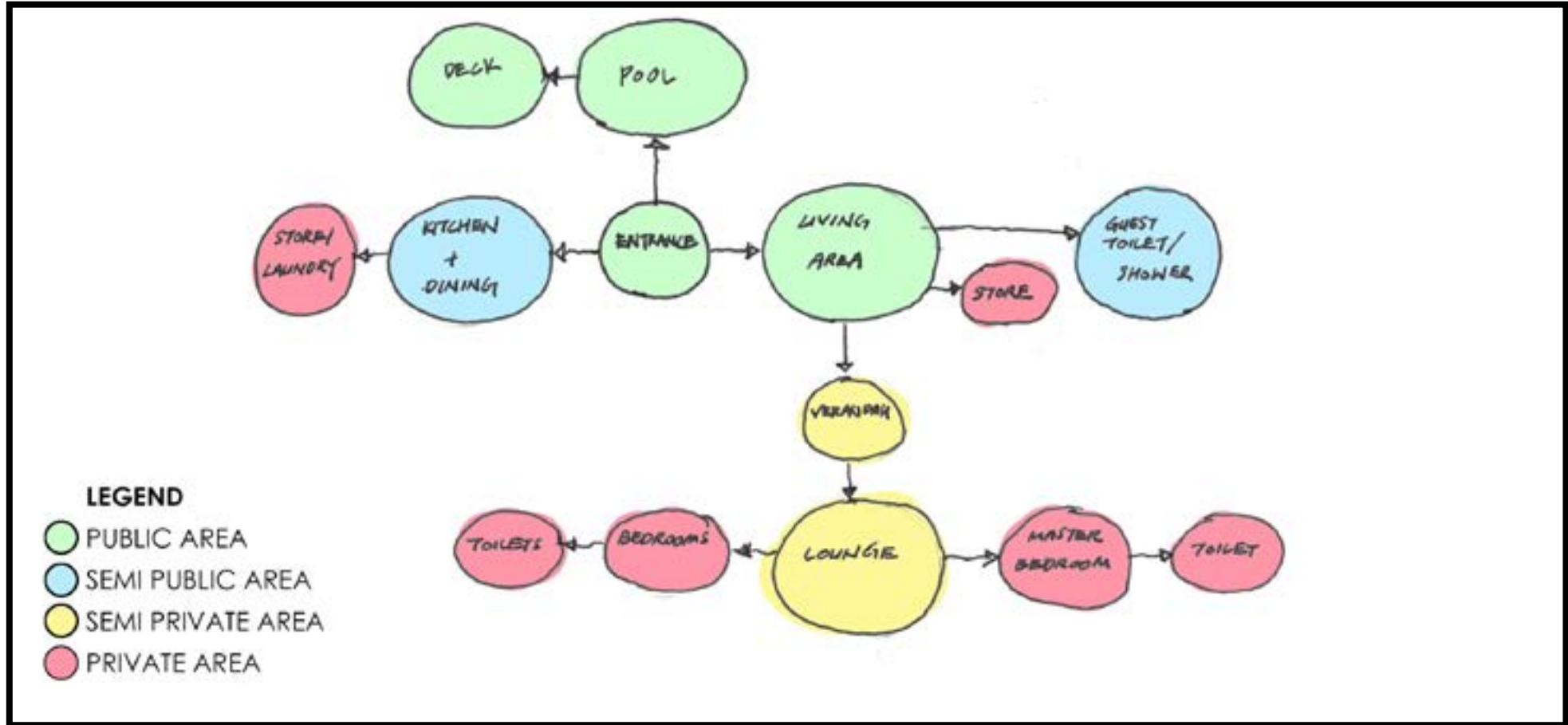
- LINEAR**
THE OVERALL BUILDING FORM EXPRESSES STRONG LINEAR ELEMENTS. FROM HORIZONTAL LINEARS SHOWN ON ROWS OF COLUMNS; VERTICAL LINEARS VISIBLE ON ERECTION OF THE COLUMNS; DIAGONAL LINEARS FOLLOW ALONG THE PITCH ROOF.
- GRID FORM**
THE PARALLEL ROWS OF COLUMNS ARE ARRANGED IN ORDER GUIDED WITH A GRID.
THE ROOMS ARE ASSIGNED ACCORDING TO THE GRID PATTERN AS WELL.
- SPACE WITHIN A SPACE**
THE COLUMNS NATURALLY FORM INTO A LARGE SPACE, ALLOWING OTHER SMALLER ROOMS TO FIT WITHIN IT.
FOR EXAMPLE, THE ENCLOSED KITCHEN AND DINING AREA IS BUILT WITHIN THE PERIMETER OF THE COLUMNS



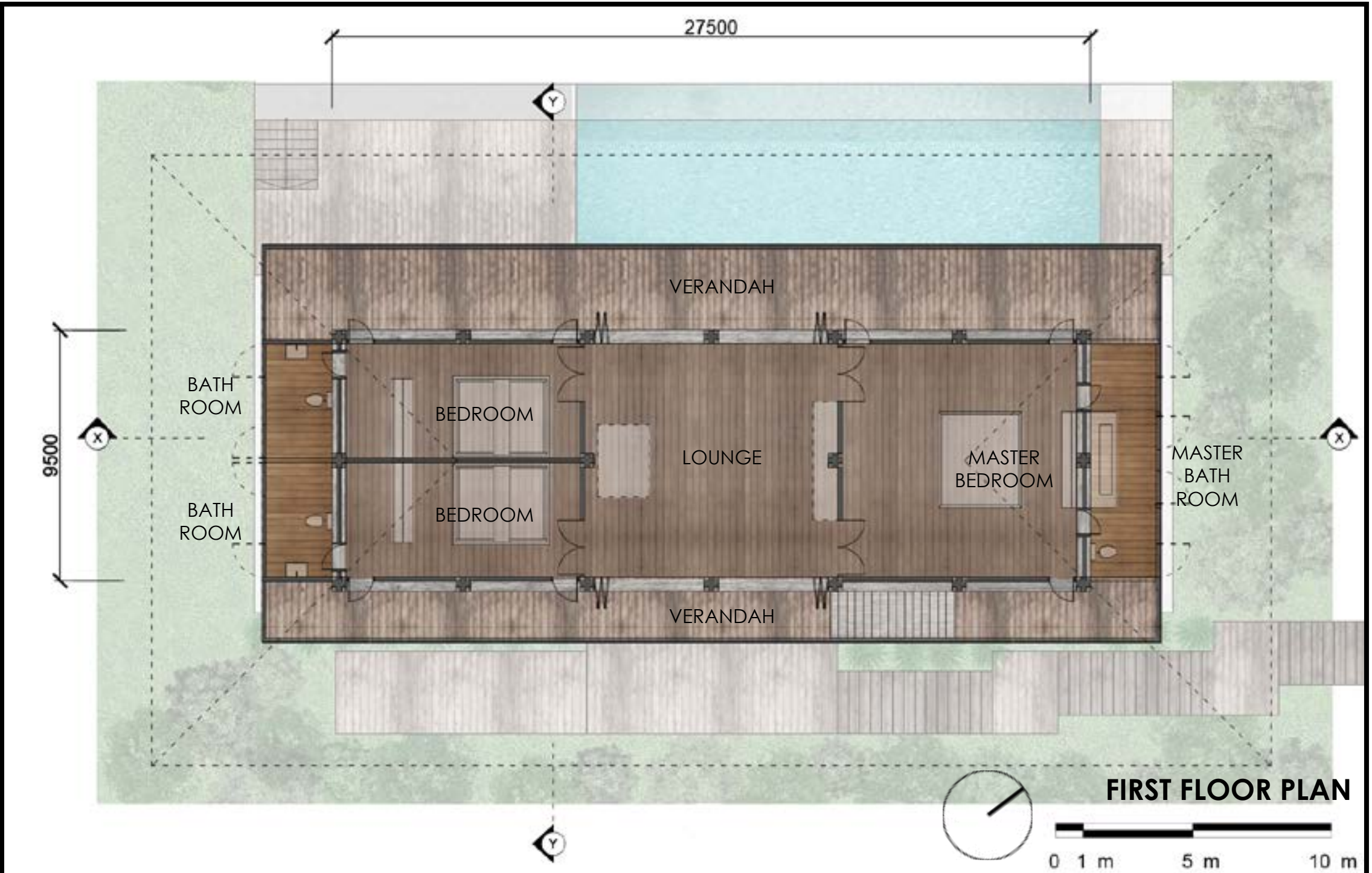
ORDERING PRINCIPLES

- AXIS, SYMMETRY & DATUM**
A SINGLE AXIS LINE ACROSS THE CENTRE OF THE HOUSE SHARES A FEW ORDERING PRINCIPLES. SHOWING BOTH EQUAL SIDES AND FORM AND SHOWING THE ELEMENTS ARE ALIGNED ALONG THE AXIS
- HIERARCHY**
THE DIFFERENCE OF SIZE AND SHAPE DEFINES THE HIERARCHY. THE LARGE TRIANGULAR OVERHANG ROOF SHADES THE RECTANGULAR SPACES UNDERNEATH.
- TRANSFORMATION**
A DRASTIC TRANSFORMATION OF FORM FROM A SLENDER, THIN SHAPE INTO A WIDE, BULKY SHAPE

BUBBLE DIAGRAM & ZONINGS



- LINEAR CIRCULATION
THE ENTRANCE IS THE CENTRE POINT OF ACCESS TO ANY SPACES ON THE OPEN GROUND FLOOR PLAN. THE GROUND FLOOR ALLOWS FREEDOM IN CIRCULATION, HENCE IT'S A PUBLIC SPACE FOR GUESTS. THE STAIRS NEXT TO THE LIVING AREA LEADS TO THE FIRST FLOOR'S VERANDAH AND IT'S RESTRICTED WITH A GATE MOUNTED AT THE STAIRS. THUS, FIRST FLOOR SERVES AS A PRIVATE AREA FOR PRIVATE INDOOR ACTIVITIES AND ANTIQUE COLLECTIONS



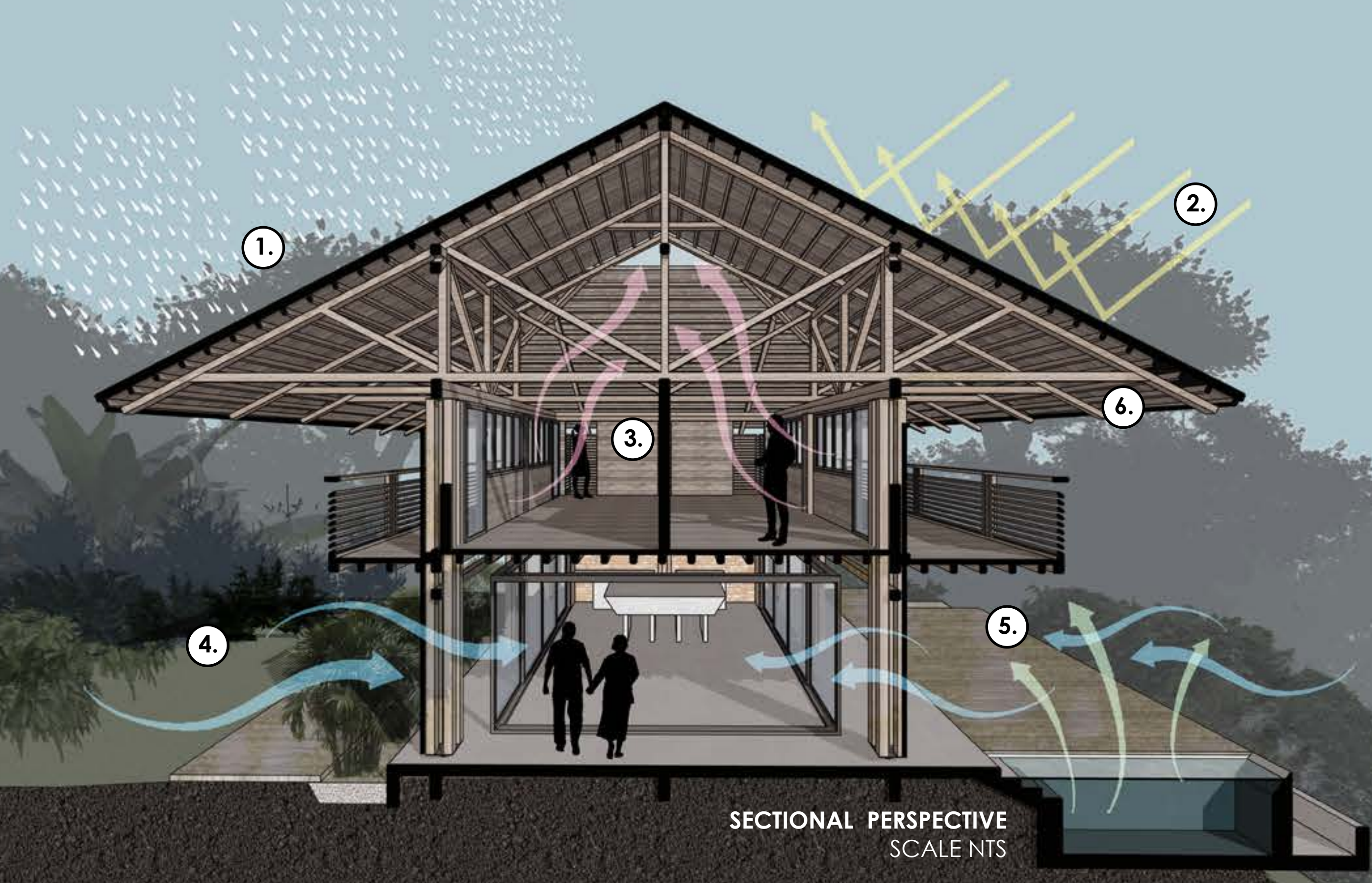
POSSIBLE PROBLEMS & SOLUTIONS

- PESTS CONTROL**
- CLIENT'S SOLUTION**
- TRADITIONAL MOSQUITO VEIL
- PROPOSE SOLUTION**
- SLIDING MESH DOORS
- FIRE FIGHTING**
- ESCAPE ROUTES**
- STAIRS / JUMP INTO POOL
- ENCLOSED SPACE**
- CONTROL SPREAD OF FIRE

CONSTRUCTION MATERIALS AND DETAILS

- RUSTIC MATERIALS**
THE TELEGRAPH POLE HOUSE IS MAINLY BUILT BY RECLAIMED TIMBER WITH A RAW PATINA GREY TEXTURE, EXPRESSING A RUSTIC AESTHETICS. THE BARE CONCRETE FINISH FLOORING, BRICK WALLS, STEEL RODS ENHANCE THE DESIGN LANGUAGE AND DISPLAY CONTEMPORARY ARCHITECTURE.
- USED TIMBER TELEGRAPH POLE**
USED BELIAN WOOD SHINGLES
EXPOSED CLAY BRICKS
CONCRETE SMOOTH FINISH
STEEL RODS
GLASS WITH ALUMINIUM FRAMING
- CONSTRUCTION DETAILS**
- CONNECTION OF BASE PLATE WITH TIMBER COLUMNS
SCARF JOINT CONNECTION
CONNECTION OF COLUMNS WITH BEAMS
STEEL RODS CONNECTION WITH TIMBER THREADS

PASSIVE DESIGN FEATURES



SERVICES DIAGRAMS

