



H

HITHADHOO DV SHELTER

Concept Masterplan

16th May 2022



Site Understanding and Design Approach

- Analysing the Site and Developing Planning Strategies

Context

- The site is centrally located towards North-western part of the island.
- The island is predominantly residential with access to few recreational and commercial facilities.

LEGEND

- Site
- Hithadhoo Fire Station
- Villa College Hithadhoo Campus
- Hithadhoo Post Office

* All information (other than site location) is as per data gathered through online sources



Site Context



Fairly regular site profile

Three side access road

Similar programme associated in the Southern part of site

Main streets adjacent to the site

Close proximity to the Youth Center (Noise and privacy concern)

Unable to include related facilities within the block

Legend

- 1. Residential
- 2. Residential
- 3. Residential
- 4. Nat Drug Agency
- 5. Accommodation (Nat Drug Agency)
- 6. Family and Child Services (FCSC)
- 7. Women Development Council (WDC)
- 8. Guard Post
- 9. Youth Center



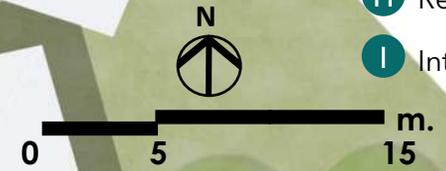
Concept Master Plan

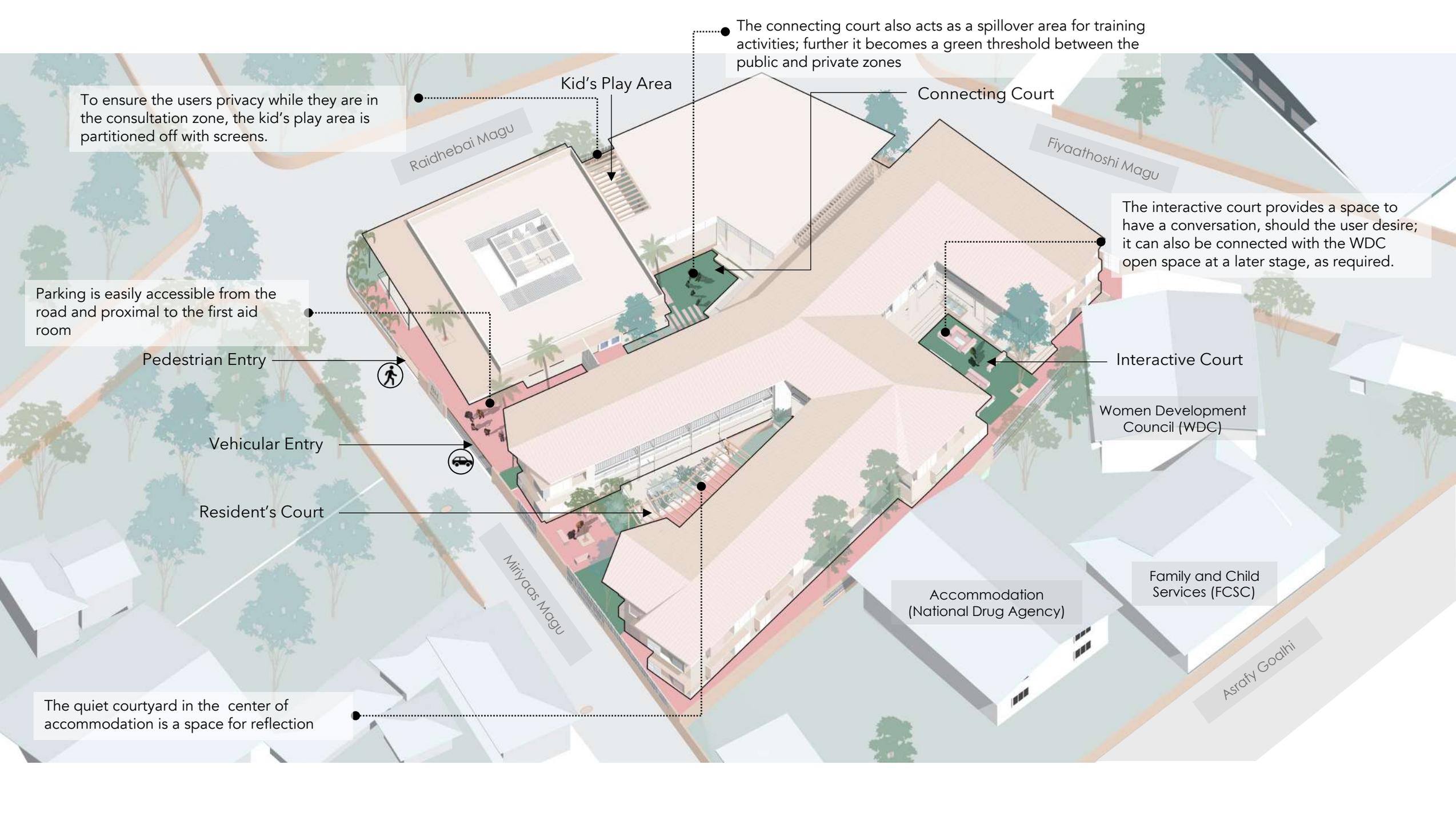
- Understanding the Master Plan, Key Areas and Activities, and User's Journey through the Facility

Concept Master Plan



- A** Entry
- B** Parking
- C** Entry Court
- D** Connecting Court
- E** Kid's Play Area
- F** Green Spill Over Area
- G** Reading Court
- H** Resident's Court
- I** Interactive Court





To ensure the users privacy while they are in the consultation zone, the kid's play area is partitioned off with screens.

Parking is easily accessible from the road and proximal to the first aid room

The connecting court also acts as a spillover area for training activities; further it becomes a green threshold between the public and private zones

The interactive court provides a space to have a conversation, should the user desire; it can also be connected with the WDC open space at a later stage, as required.

The quiet courtyard in the center of accommodation is a space for reflection

Raidhebai Magu

Fiyathoshi Magu

Miryas Magu

Arafy Goalhi

Kid's Play Area

Connecting Court

Interactive Court

Women Development Council (WDC)

Accommodation (National Drug Agency)

Family and Child Services (FCSC)

Pedestrian Entry

Vehicular Entry

Resident's Court

Building Plan

- Detailed Floor Plans

Ground Floor Plan



LEGEND

- 1 Security Cabin
- 2 Entry Foyer
- 3 First Aid
- 4 Waiting Area and Reception
- 5 Manager's Room and Toilet
- 6 Prayer Room
- 7 Legal Aid Room
- 8 Counselling Room
- 9 Common Toilet-1- UA

- 10 Nursery, Breast feeding room and Kid's wash area
- 11 Vocational Training
- 12 Computer Room
- 13 Common Toilets- 2

- 14 Multipurpose Hall
- 15 Library
- 16 Dining, Handwash and Toilet
- 17 Kitchen, Pantry and Utility
- 18 Laundry Room
- 19 Lounge
- 20 Flexible Occupancy Units
- 21 Single Occupancy Units
- 22 Universally Accessible Accommodation Units



First Floor Plan



LEGEND

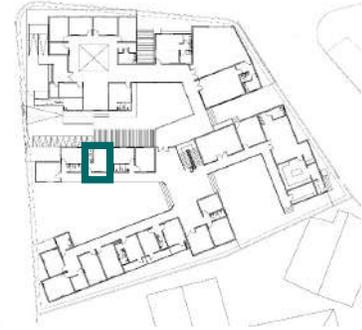
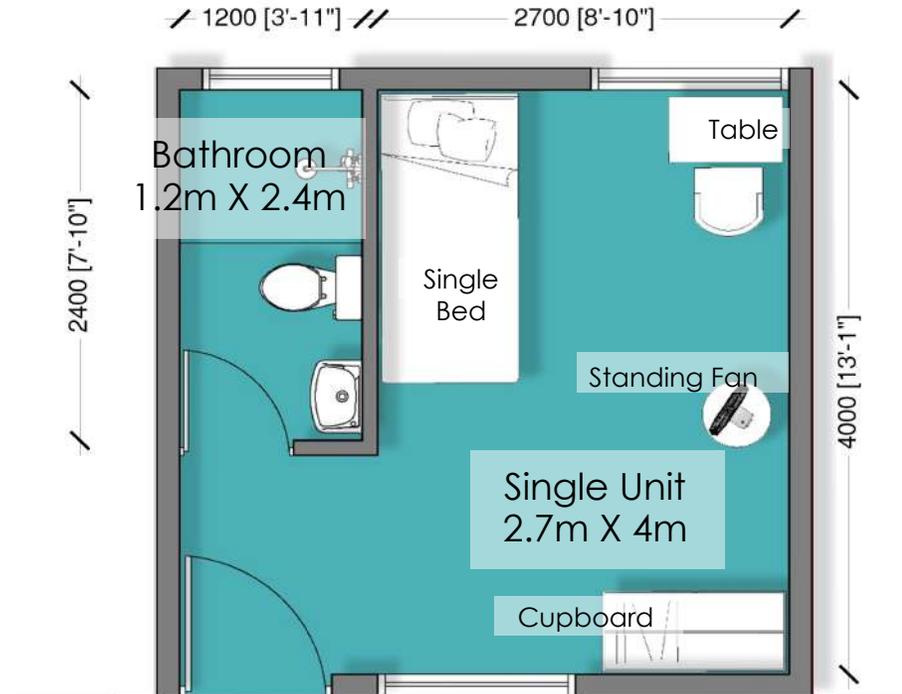
- 20 Flexible Occupancy Units
- 21 Single Occupancy Units
- 23 Family Units
- 24 Spare Room
- 25 Office With Video Conference
- 26 Staff Meeting Room
- 27 Maintenance Staff Room, Rest area, Lockers and Toilet
- 28 Storage
- 29 Office Staff Room, Utility, Lockers and Toilets
- 30 Record Room

Accommodation Unit Design

- Accommodation Units Layouts and Details

Single Occupancy Unit 1

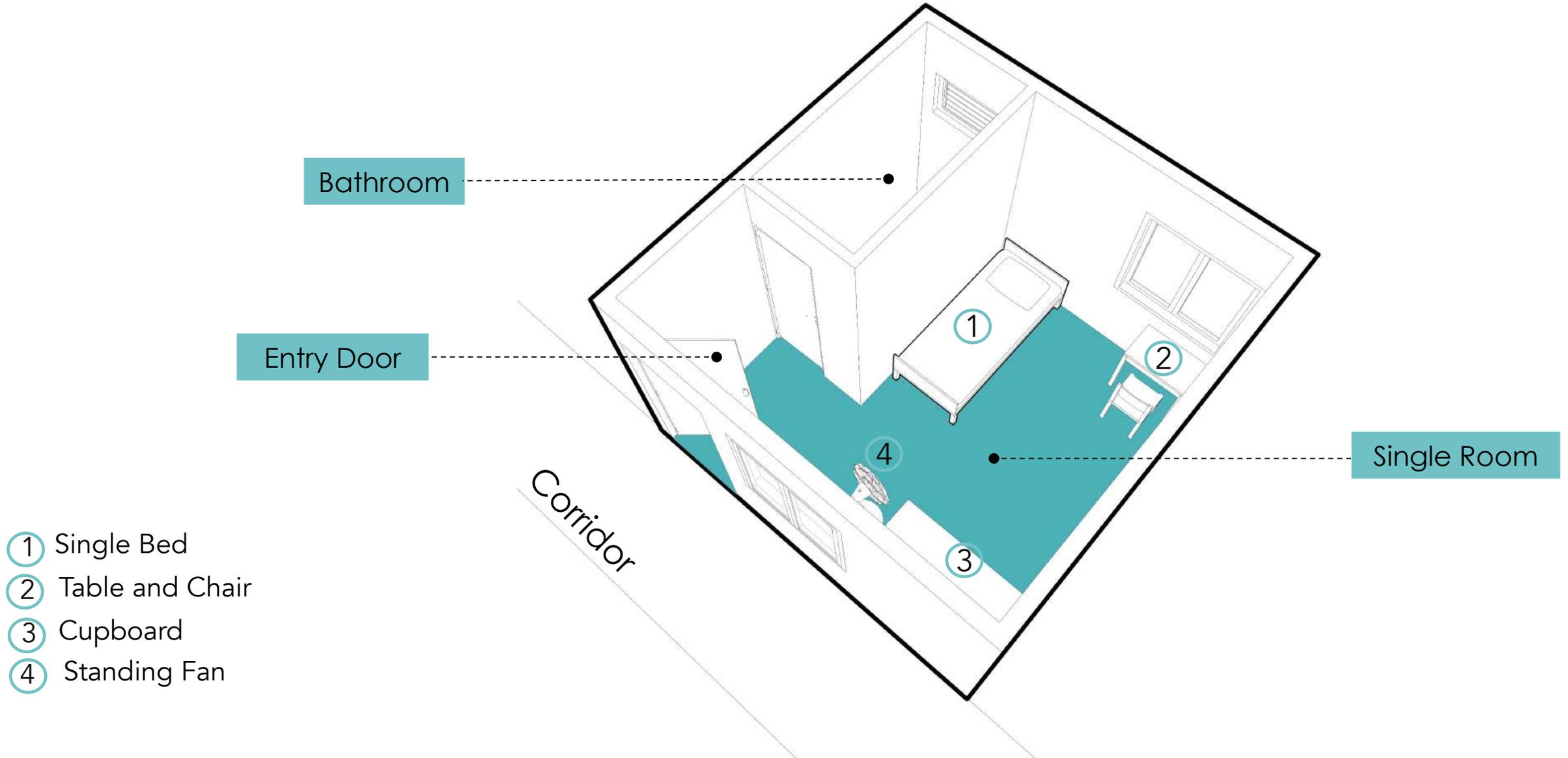
Unit Area: 12.90 Sqm/ 138.85 Sqft
Bathroom Area: 2.95 Sqm/ 31.75 Sqft



Corridor

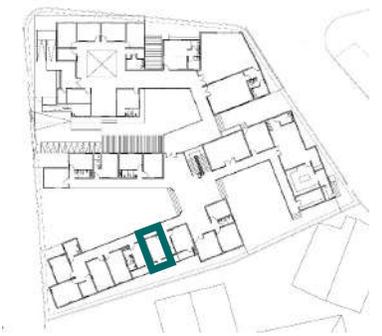
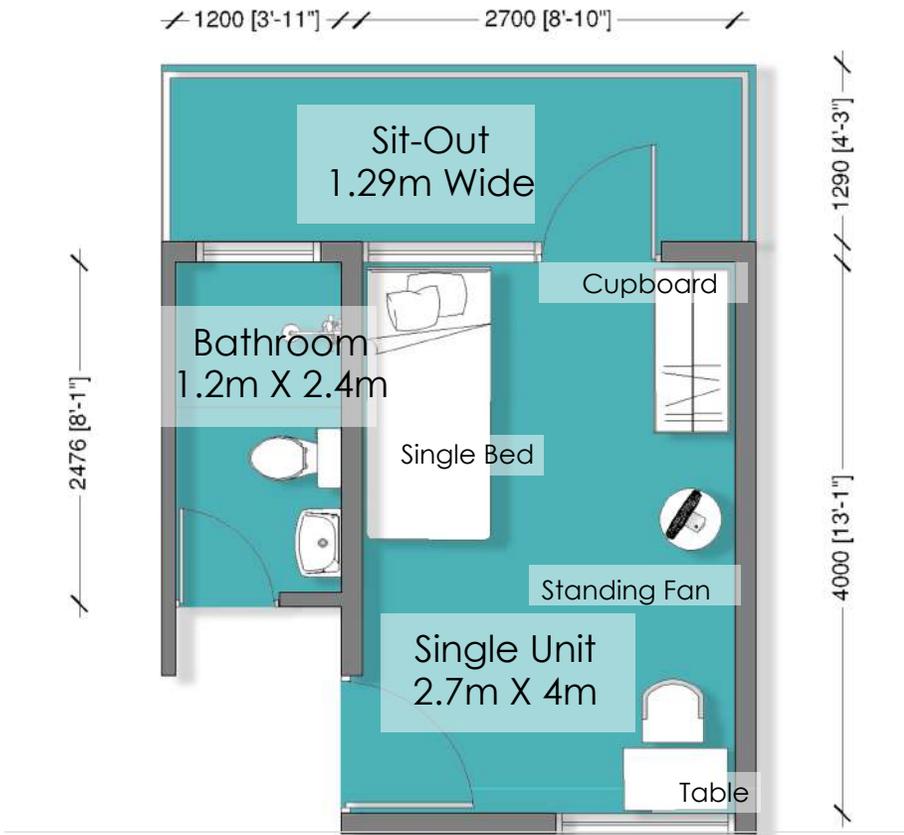


Single Occupancy Unit 1



Multi Occupancy Unit 4- Single Room

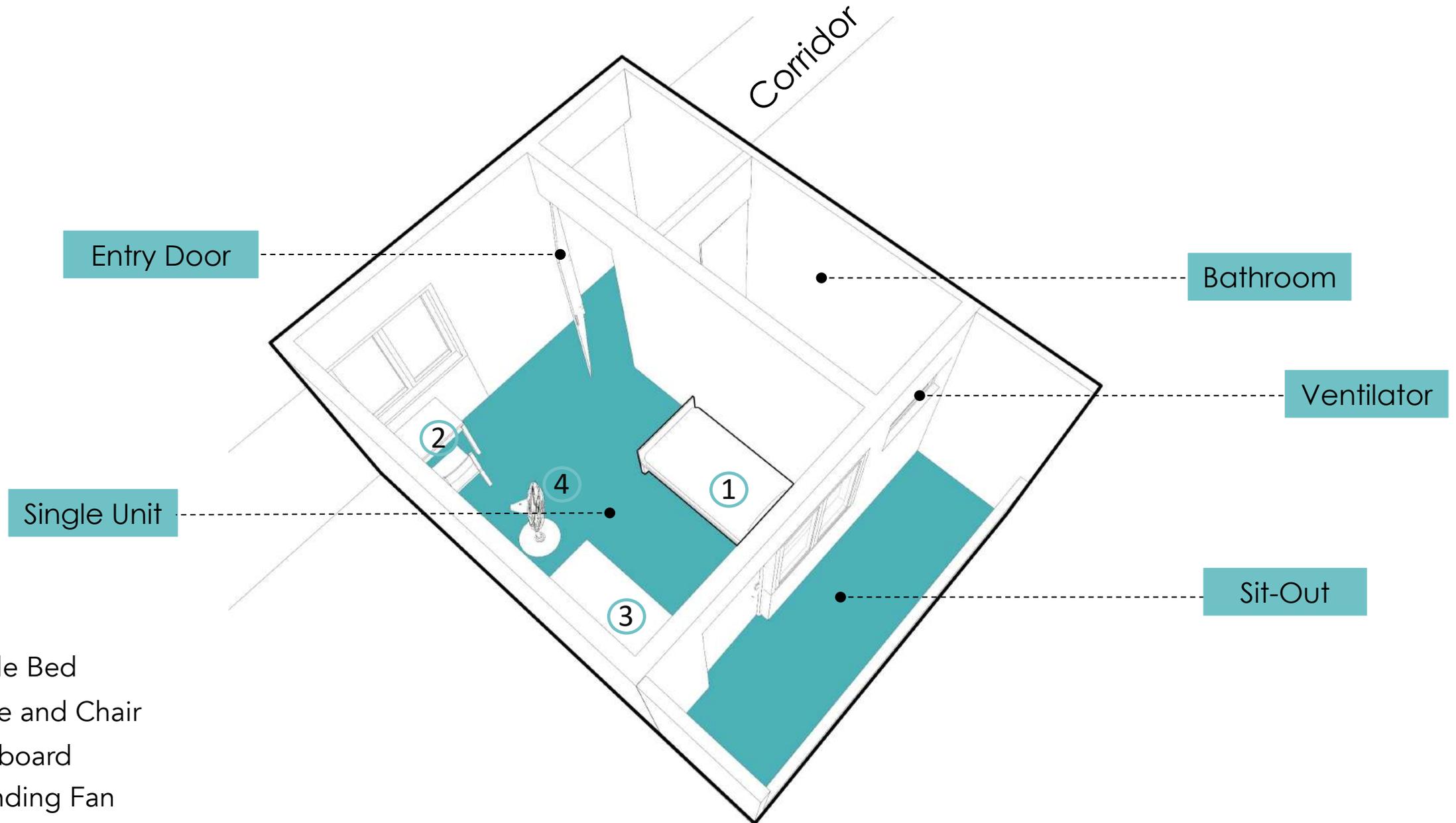
Unit Area: 11.10 Sqm/ 119.47 Sqft
Bathroom Area: 2.95 Sqm/ 31.75 Sqft
Sit-Out: 3.55 Sqm/ 38.21 Sqft



Corridor

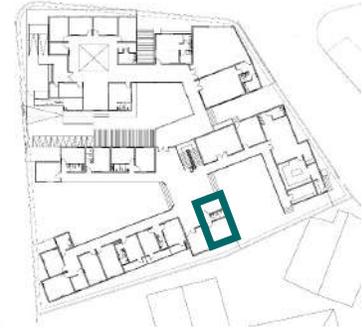
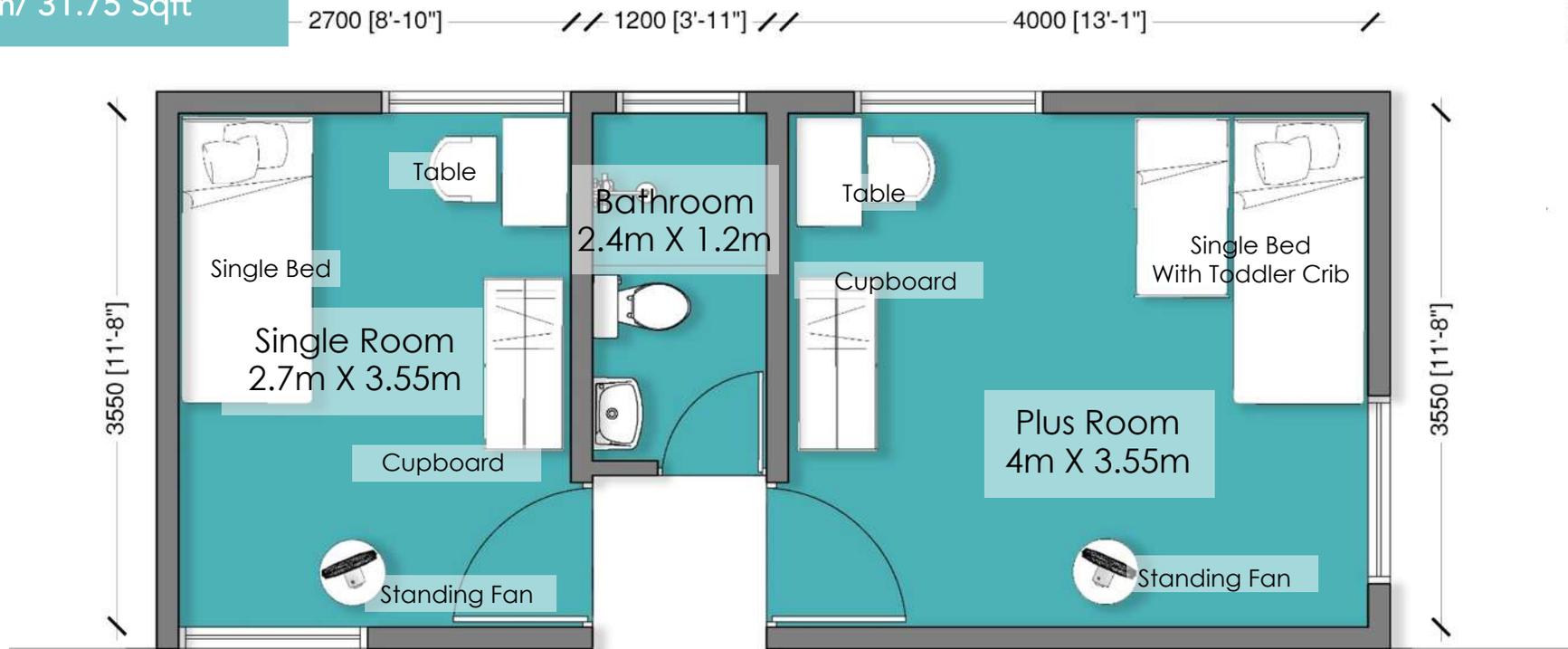


Multi Occupancy Unit 4- Single Room



Multi Occupancy Unit 3

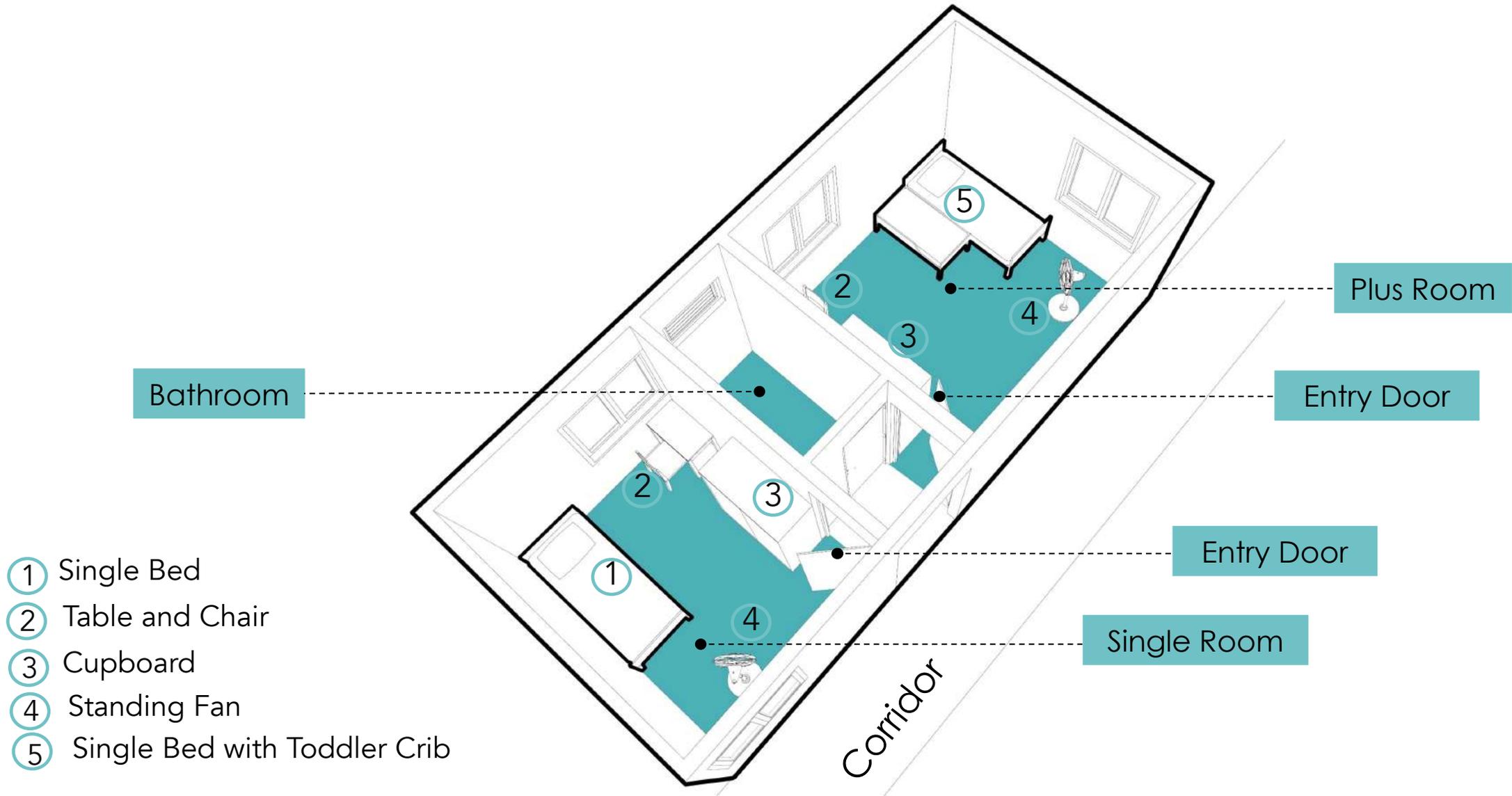
Single Room Area: 9.74 Sqm/ 104.84 Sqft
Plus Room Area: 14.30 Sqm/ 153.9 Sqft
Bathroom Area: 2.95 Sqm/ 31.75 Sqft



Corridor

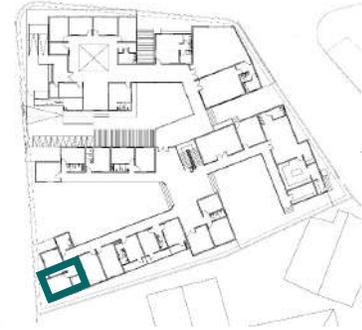
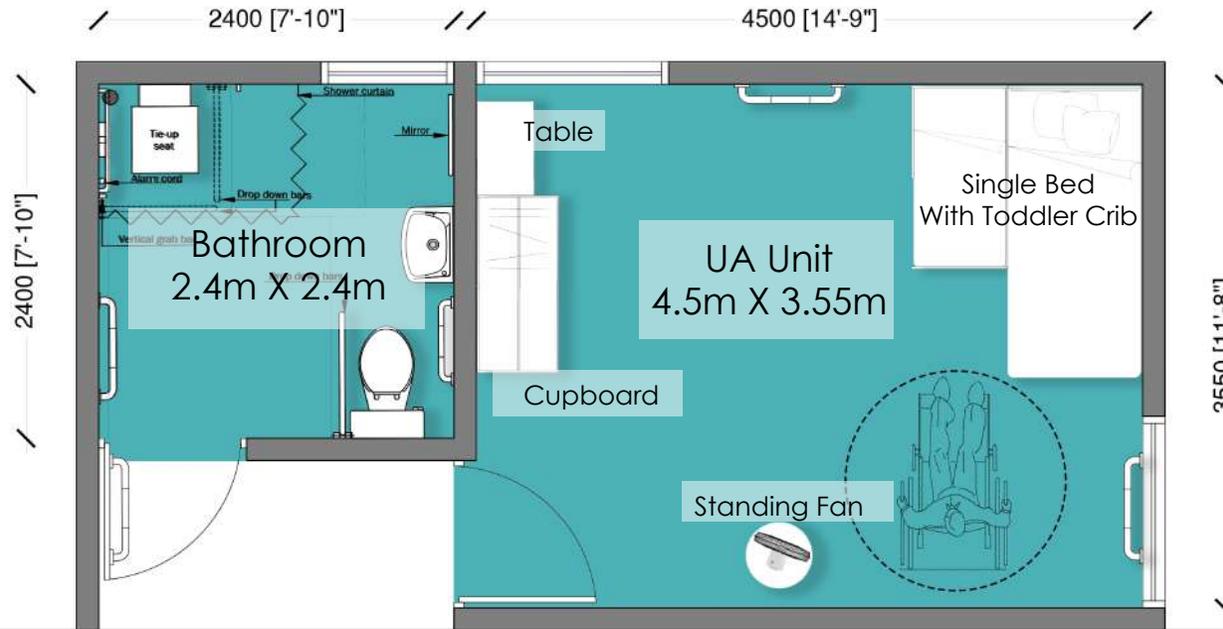


Multi Occupancy Unit 3



Universally Accessible (UA) Unit-3

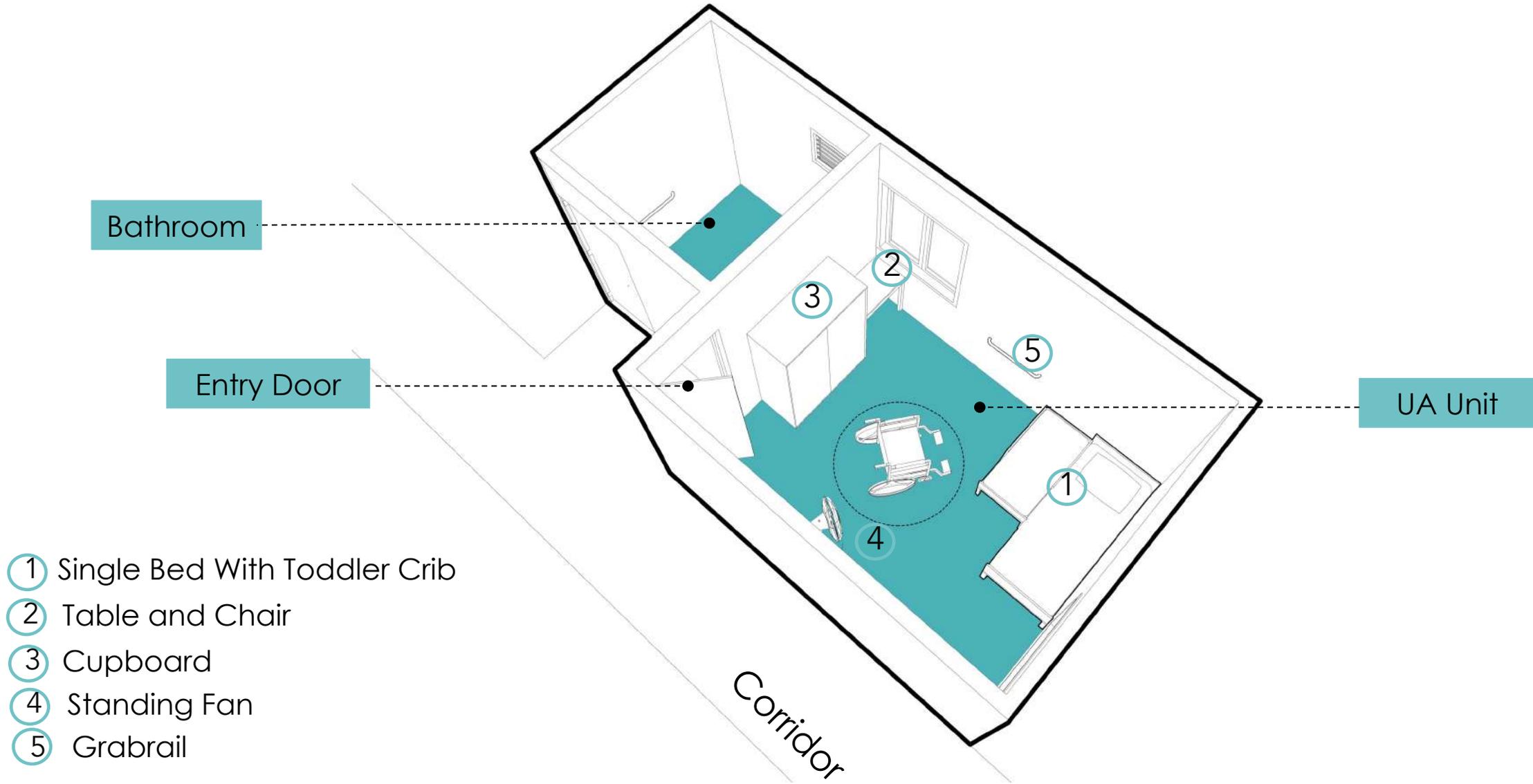
Unit Area: 16.12 Sqm/ 173.51 Sqft
Bathroom Area: 5.90 Sqm/ 63.50 Sqft



Corridor

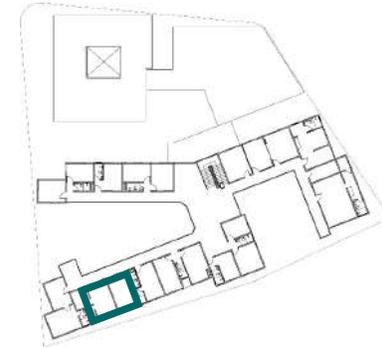
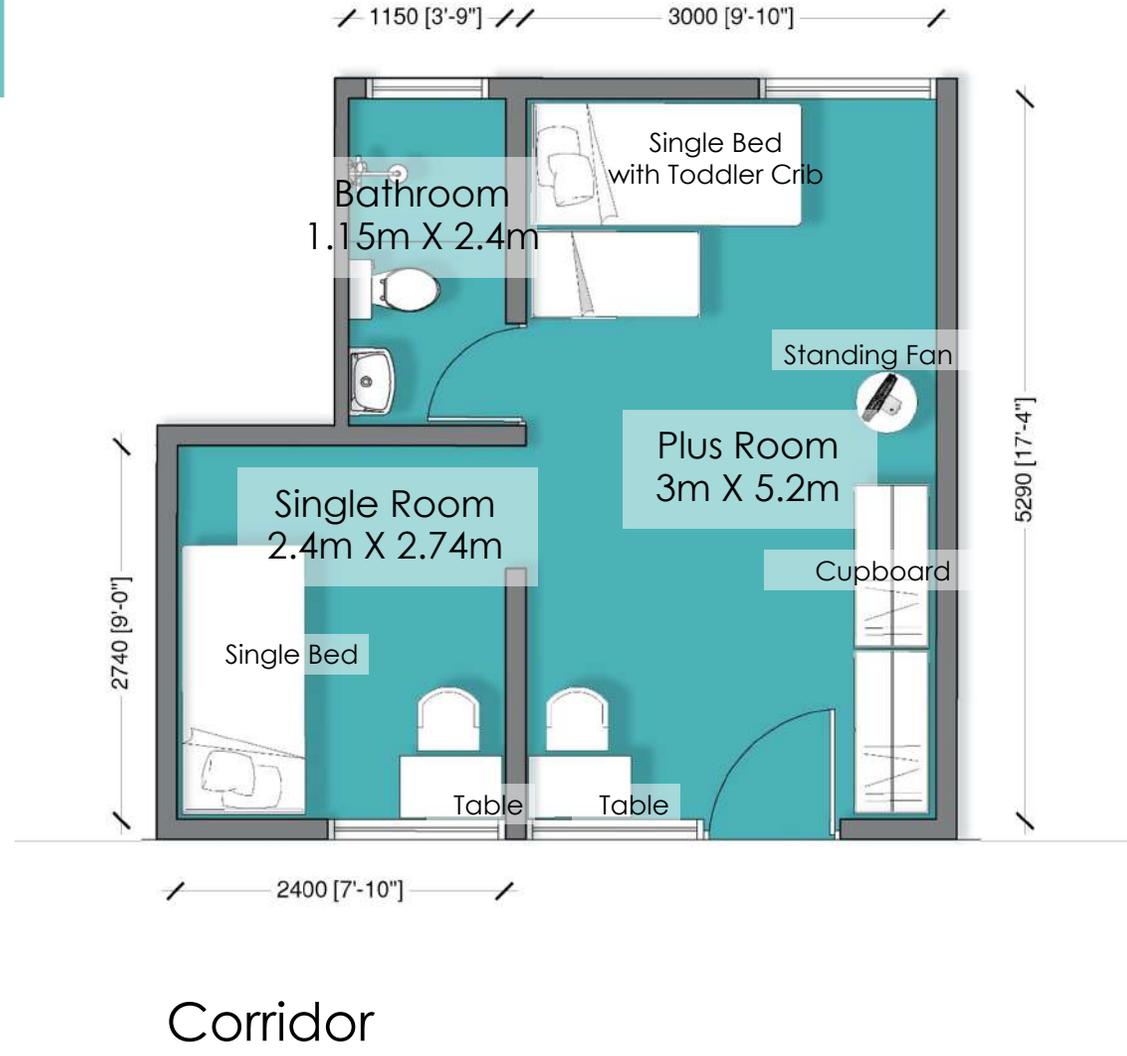


Universally Accessible Unit-3

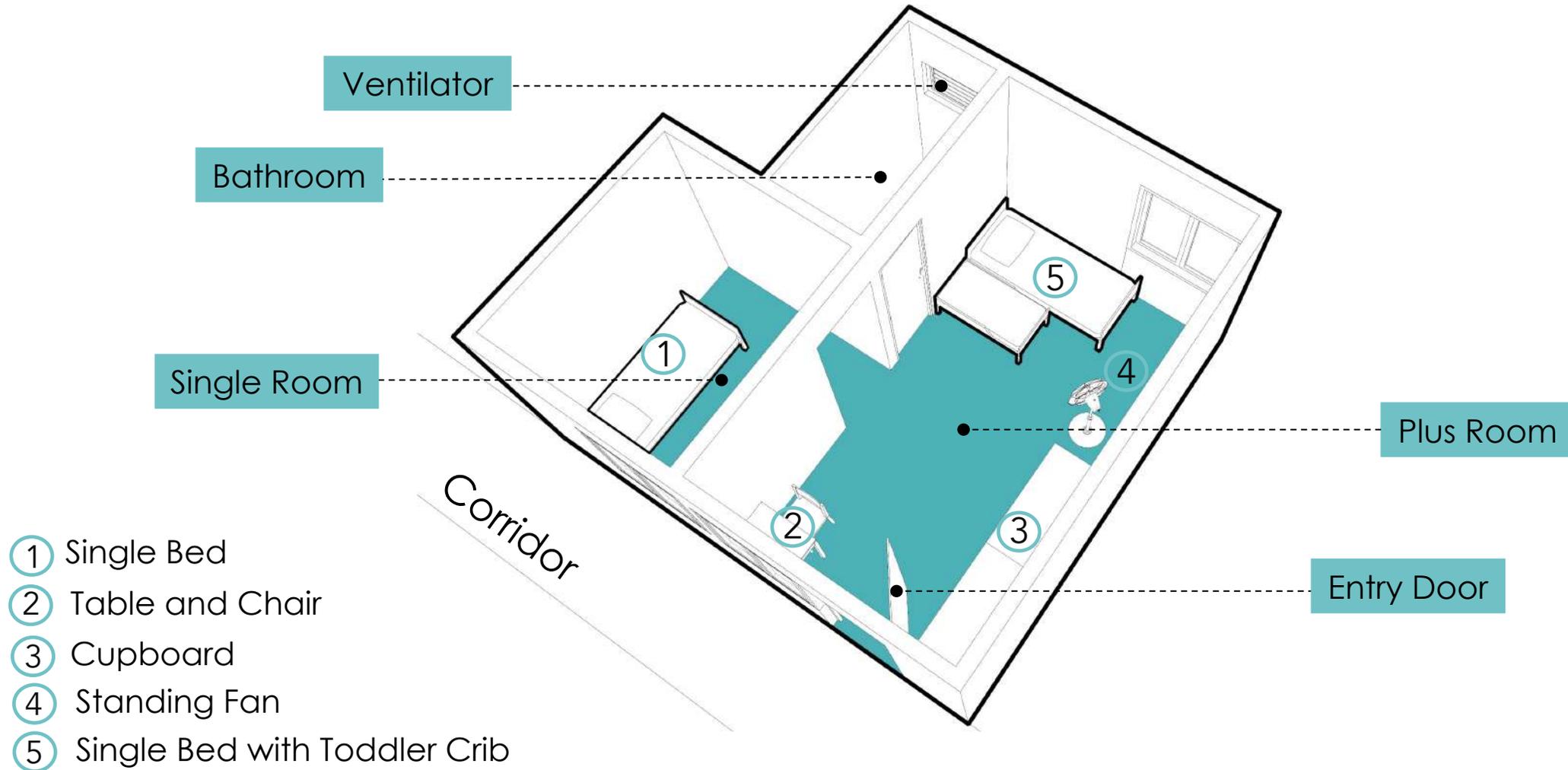


Family Unit 1

Total Room Area: 22.73 Sqm/ 244.66Sqft
Bathroom Area: 2.76 Sqm/ 29.7 Sqft



Family Unit 1



Window details

- Window details as per CFD and Energy considerations

Window Details Sample (E-W Side)

Screen detail



150 mm gap between wooden box and outer edge of window box to allow window panes to open with screen in front.

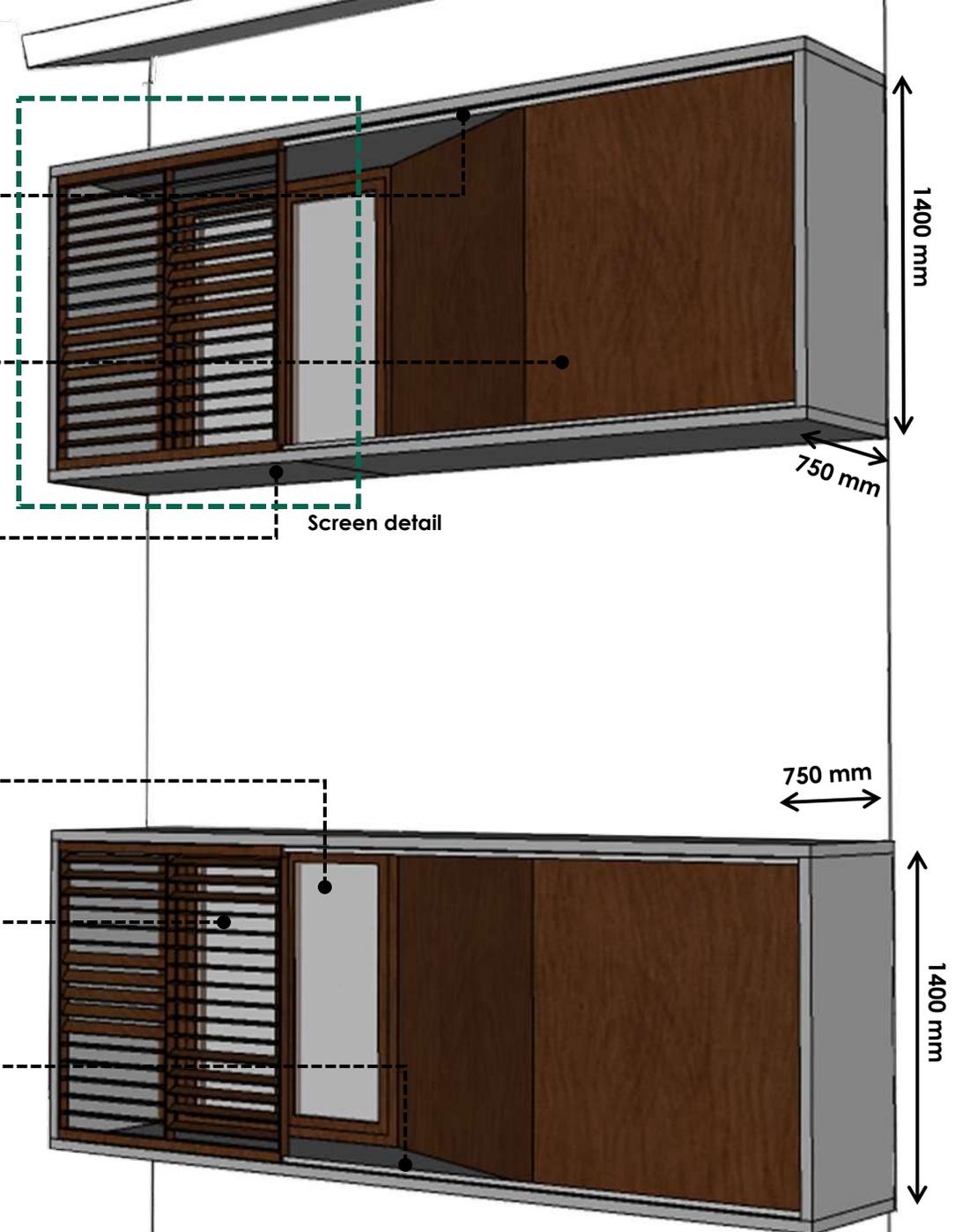
Angular hollow wooden box for visual aesthetic

Extended Aluminium window box

Openable glass panes

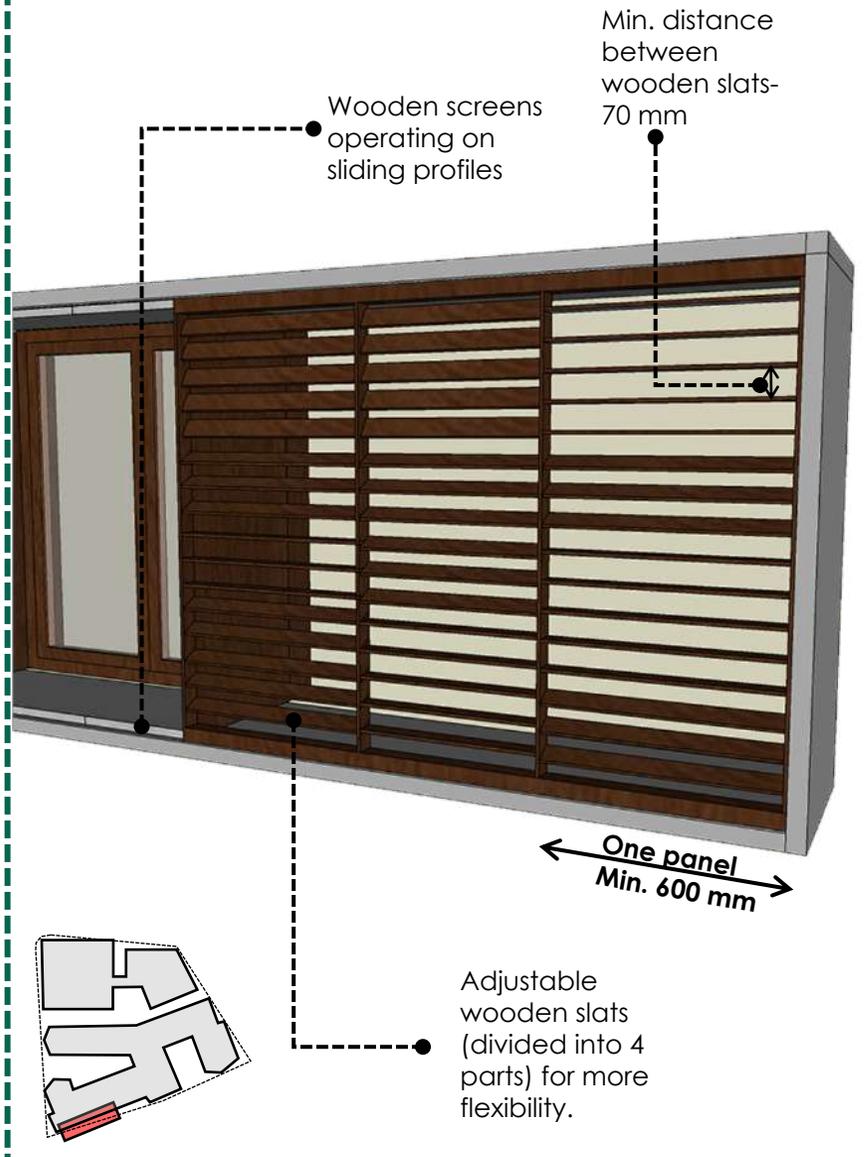
Sliding wooden screen for privacy and improved indoor environment

Sliding profile for wooden screens



Window Details Sample (N-S Side)

Screen detail



150 mm gap between wooden box and outer edge of window box to allow window panes to open with screen in front.

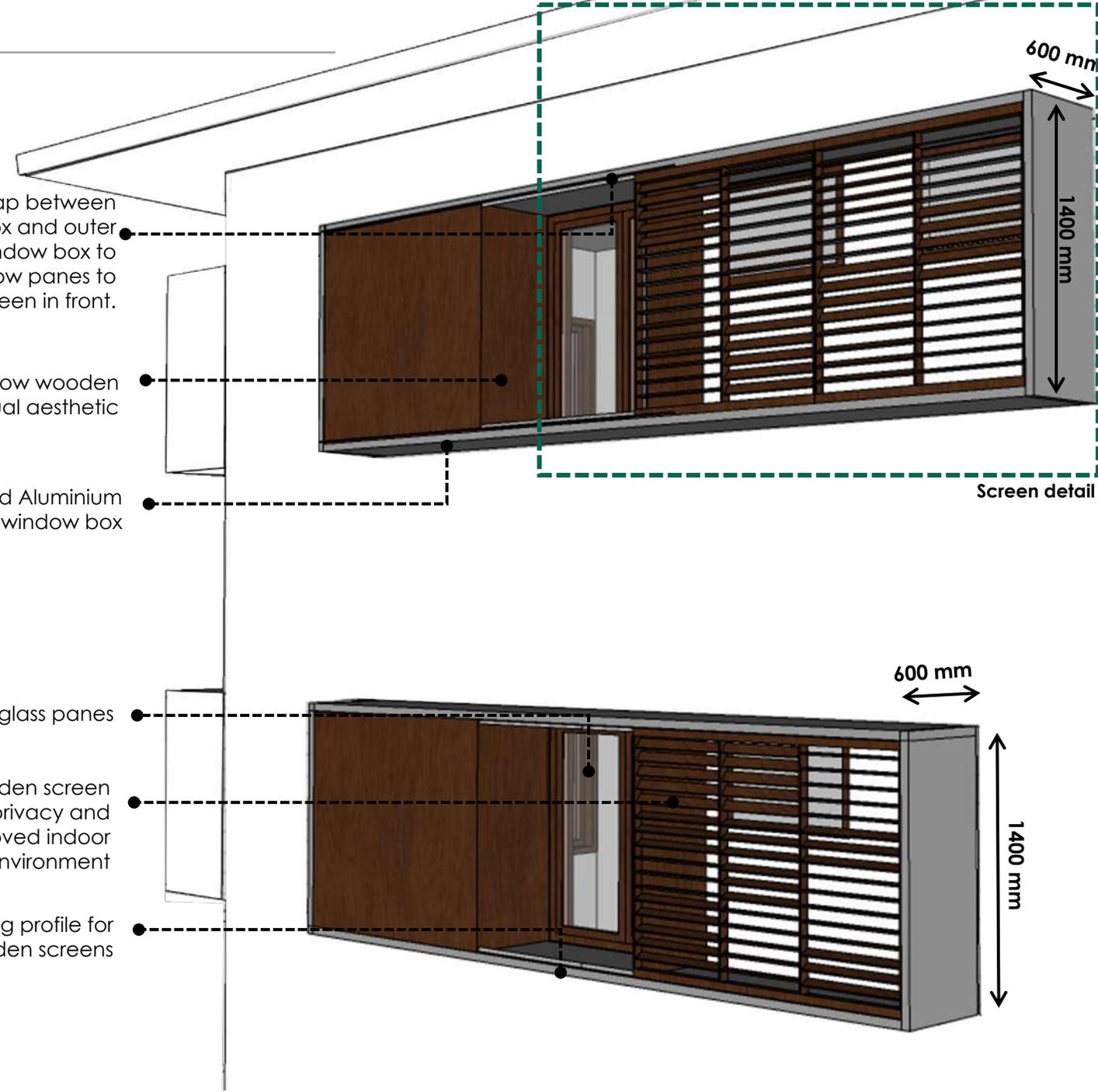
Angular hollow wooden box for visual aesthetic

Extended Aluminium window box

Openable glass panes

Sliding wooden screen for privacy and improved indoor environment

Sliding profile for wooden screens



Visualizations

- Envisioning the Facility and Key Areas

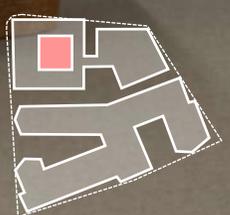


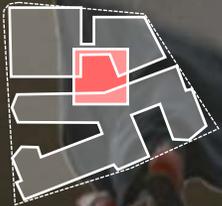


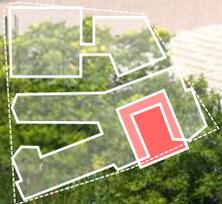


Level 0

- ↓ First Aid Room
- ↓ Manager's Office
- Vocational Training
- Computer Room
- Accommodation
- ↑ Toilet







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Appendix

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- Site and Building Level Calculations
 - Climate Considerations



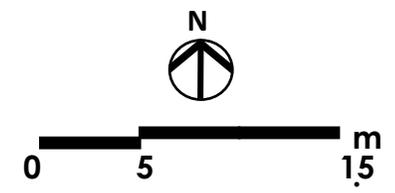
Trees- Retained and Removed

Trees to be removed

- TR 1 - Bread Fruit Tree
- TR 8 – Coconut Palm Tree
- TR 9 – Ipilipili Tree

Tress to be retained

- TR 2 - Coconut Palm Tree
- TR 3 - Coconut Palm Tree
- TR 4 - Coconut Palm Tree
- TR 5 - Unknown Palm Tree
- TR 6 - Unknown Large Tree
- TR 7 - Unknown Large Tree
- TR 10 – Ipilipili Tree
- TR 11 - Ipilipili Tree
- TR12 - Water Apple Tree
- TR13 - Coconut Palm Tree
- TR14 - Coconut Palm Tree



Area Calculations



TOTAL SITE AREA		1985.52 sq. m (21371.95 sq. ft)		
Function	Area (sq. m.)	Area (sq ft)	Percentage	
Plinth Area	1071.18	11530.08	53.96 %	
Total open space (inclusive of all open area)	914.34	9841.87	46.04 %	
1. Total Empty Space	208.55	2244.81	10.5 %	
2. Parking Area	59.61	641.63	3 %	
3. Other Open Area	646.18	6955.42	32.54 %	

Function	Area (sq. m.)
PUBLIC USES	
Security Room	3.79
First Aid Room	16.16
Waiting lounge and Reception	19.06
Manager's Office	13.36
Manager's Washroom	2.71
Prayer Room	6.22
Legal Aid-1	12.60
Counselling Room-1	12.15
Counselling Room-2	12.15
Legal Aid-2	12.60
Utility Area	5.25
Universally accessible toilet-1	5.20
TOTAL	121.25
SEMI PUBLIC USES	
Nursery/ day care center	20.75
Nursery Handwash Area	2.21
Nursery Kid's Toilet	2.17
Breast feeding Room	4.30
Vocational Training Hall	60.84
Computer Room	35.27
VOC Block Utility Area	7.37
VOC Block- Toilet-1	1.33
VOC Block- Universally accessible toilet	4.69
TOTAL	138.93
SUPPORTING USES	
Multi-purpose Hall	31.32
Library	18.30
Dining Hall	35.31
Dining Handwash Area	3.72
Dining Universally Accessible Toilet	4
Utensil Disposal	2.85
Kitchen and Pantry	24.57
Utility	3.67
Laundry Room	10.50
TOTAL	134.24

Function	Area (sq. m.)
RESIDENTIAL BLOCK	
Multi-occupancy Unit-1 Rm-1	12.95
Multi-occupancy Unit-1 Rm-2	10.90
Multi-occupancy Unit-1 Bath	2.95
Single-occupancy Unit-1	12.90
Single-occupancy Unit-1 Bath	2.95
Multi-occupancy Unit-2 Rm-1	12.95
Multi-occupancy Unit-2 Rm-2	10.90
Multi-occupancy Unit-2 Bath	2.95
Multi-occupancy Unit-3 Rm-1	14.30
Multi-occupancy Unit-3 Rm-2	9.74
Multi-occupancy Unit-3 Bath	2.95
Lounge	15.25
Multi-occupancy Unit-4 Rm-1	13.03
Multi-occupancy Unit-4 Rm-1 Deck	5.28
Multi-occupancy Unit-4 Rm-2	11.10
Multi-occupancy Unit-4 Rm-2 Deck	3.55
Multi-occupancy Unit-4 Bath	2.95
Single-occupancy Unit-2	12.46
Single-occupancy Unit-2 Deck	5.22
Single-occupancy Unit-2 Bath	2.95
Universally accessible Type-1 Unit-1	16.02
Universally accessible Type-1 Unit-2	16.02
Universally accessible Type-1 Unit-3	16.12
Universally accessible Type-2 Unit-1	12.76
Universally Accessible Shared Bath-1	5.90
Universally Accessible Shared Bath-2	6.15
TOTAL	241.20
FIRST FLOOR- OFFICE BLOCK	
Spare Room	16.54
Office Room with Video facility	14.32
Staff Meeting Room	18.15
Maintenance Staff Gathering Area	10.05
Maintenance Staff Rest Area, Locker and Washroom	20.18
Storage Room	8.70
Office Staff Room and Records, Locker, Utility and Washroom	44.83
TOTAL	132.77

Function	Area (sq. m.)
FIRST FLOOR- RESIDENTIAL BLOCK	
Multi-occupancy Unit-5 Rm-1	12.95
Multi-occupancy Unit-5 Rm-2	10.90
Multi-occupancy Unit-5 Bath	2.95
Single-occupancy Unit-3	12.90
Single-occupancy Unit-3 Bath	2.95
Multi-occupancy Unit-6 Rm-1	12.95
Multi-occupancy Unit-6 Rm-2	10.90
Multi-occupancy Unit-6 Bath	2.95
Multi-occupancy Unit-7 Rm-1	14.30
Multi-occupancy Unit-7 Rm-2	9.74
Multi-occupancy Unit-7 Bath	2.95
Single-occupancy Unit-4	11.69
Single-occupancy Unit-4 Bath	3.29
Multi-occupancy Unit-8 Rm-1	16.38
Multi-occupancy Unit-8 Rm-2	14.43
Multi-occupancy Unit-8 Bath	2.95
Single-occupancy Unit-5	14.43
Single-occupancy Unit-5 Bath	2.95
Single-occupancy Unit-6	16.02
Single-occupancy Unit-6 Bath	2.95
Family Unit- 1	22.73
Family Unit-1 Bath	2.87
Family Unit- 2	28.86
Family Unit-2 Bath	2.87
TOTAL	238.86
COURTYARDS	
Courtyard Spaces	Area (sq. m)
Courtyard-1	21.7
Courtyard-2	126.79
Courtyard-3	175.33
Courtyard-4	92.45
Kid's Play Area	37.17
Reading Court	46.97
TOTAL	500.41