

# Greenery Project

Dhamma Paphulla



# Phase-1

Year 2020

# Benefits of the greenery project

- Sound from village to the centre will be reduced / minimised by the agro forest (belt, stretch and spread of trees, not a single tree)
- Aid meditation, harmony & peace
- Water table will become rich
- Catalyst for nature to flourish throughout the campus without our interference (mostly invisible to us)
- At mature level, 80% to 90% of kitchen requirements will be met
- Volunteers will raise the entire project costs from Vipassana Meditators and themselves

- **Greenery Project - Phase 1 (Year 2020)**
  - This is a meditation centre, and sole purpose is meditation always
  - Centre of everything is “Water Resources” & “Water Management”
  - Grid Design & Plantation Planning
  - Project Costs
  - Maintenance - short, medium & long term
  - Opportunity to earn Paramis

# Objective of the Greenery Project

**Develop agro-forest at Dhamma Paphulla that makes the centre beautiful, pleasant, harmonious and conducive for meditation.**

**It helps the progression in dhamma for every being involved with Dhamma Paphulla.**

**It will have a utility to support the centre's kitchen only.**

# Water

3 - Simple Principles

**Conserve**

**Reuse**

**Harvest**

**(in short - Greenery Project does not need existing bore well water!!!)**



## Greenery Project

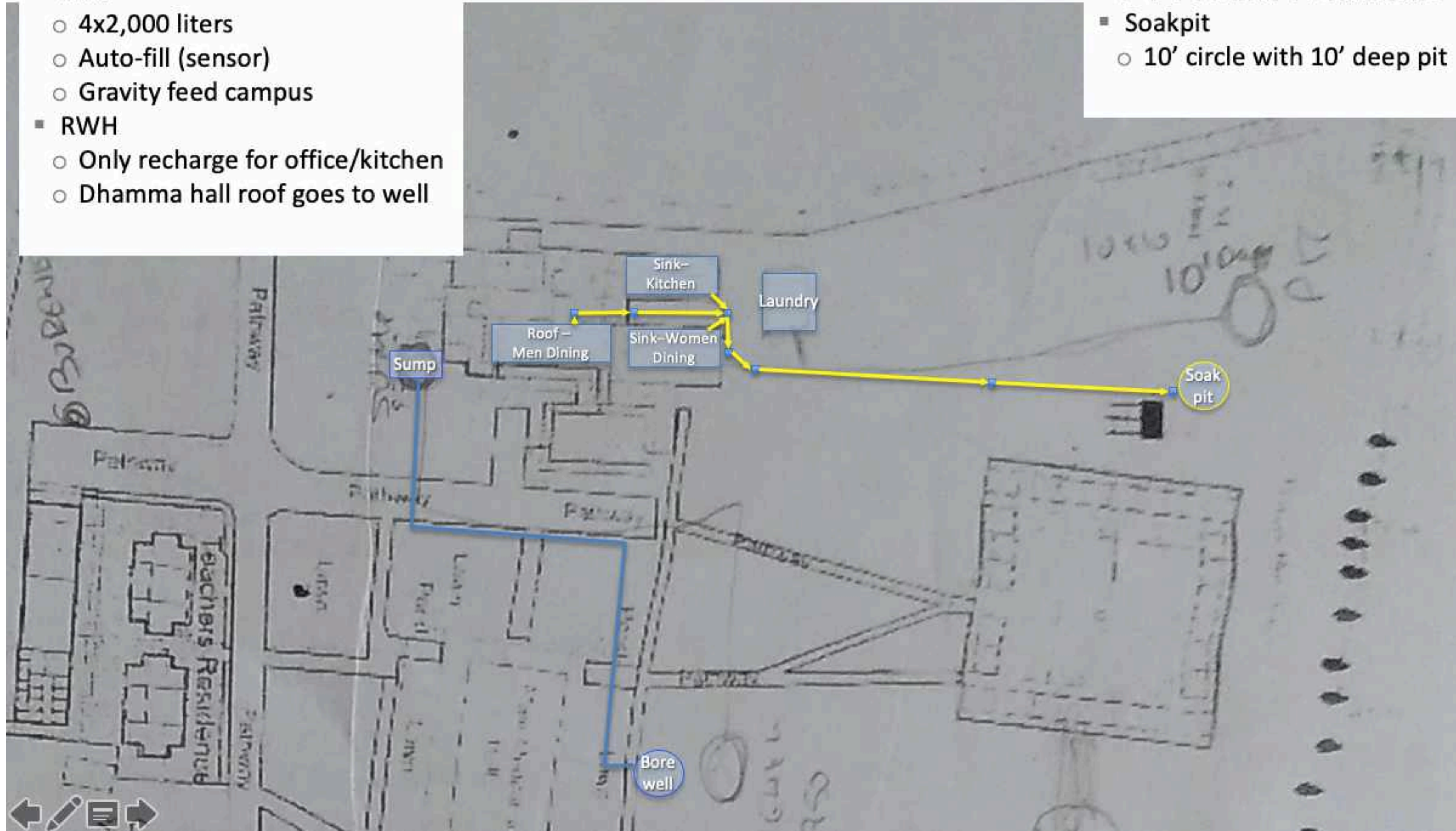
### Current Water Situation

#### Water Source

- Primary Borewell
  - 950' (bedrock)
  - Manual on/off – 3times/day
- Sump volume
  - 24,000 liters
- OHT
  - 4x2,000 liters
  - Auto-fill (sensor)
  - Gravity feed campus
- RWH
  - Only recharge for office/kitchen
  - Dhamma hall roof goes to well

#### Used Water for Recharge

- 3 sources
  - Roof over men's dining
  - Kitchen sinks
  - Women's dining wash
- Line
  - 4" PVC with 4-5 manholes
- Soakpit
  - 10' circle with 10' deep pit



## Planting Need

- About 12,000 sqft (1,100m<sup>2</sup>)
  - Row of trees along wall (soundproofing)
  - Vegetable patch (near to kitchen)
  - Dense forest
- Watering
  - 3 years irrigation needed
  - Continuous watering for veggies

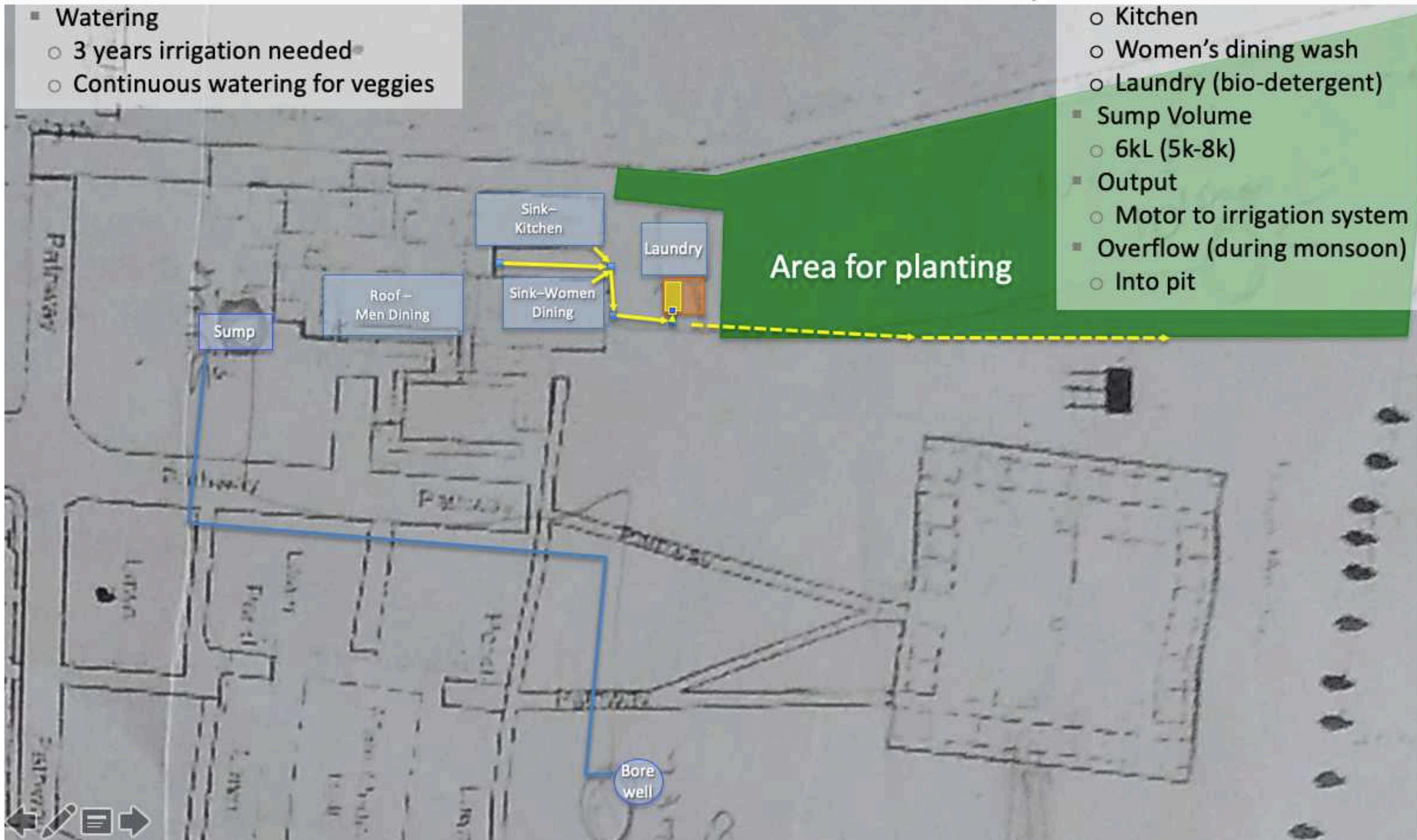
## Proposed Water Solution

### Objective:

- To irrigate tree plantation
- RWH from roofs for water security

## Storage

- 3x5m outside laundry room
  - Build sump
  - Sand-gravel filter
  - Consider adding oil filter
- 4 sources
  - Kitchen
  - Women's dining wash
  - Laundry (bio-detergent)
- Sump Volume
  - 6kL (5k-8k)
- Output
  - Motor to irrigation system
- Overflow (during monsoon)
  - Into pit



## Location of Sumps and Filters



rain session 0.010 **5.6** kl min storage req

annual rain 0.7 393 kl annual potential

roof area	ns	ew	<b>562</b> sq m
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### Sump sizing

kitchen	20	5.2	104
office	6.9	9.8	67.62
office back	12.3	5.5	67.65
men's dining	19.2	8	153.6
women's dining	18	8	144
laundry	5	5	25
mini-dhamma hall	0	0	0

### Capture

- 4 Roof areas
  - Office - 3 outlets on east side
  - Kitchen roof
  - Teacher dining roof
  - Men's dining hall roof (try)
- Piping and Gutters
  - Add gutter to all buildings
  - First flush
- Storage
  - Fast sand filter
  - 10,000-20,000 liters

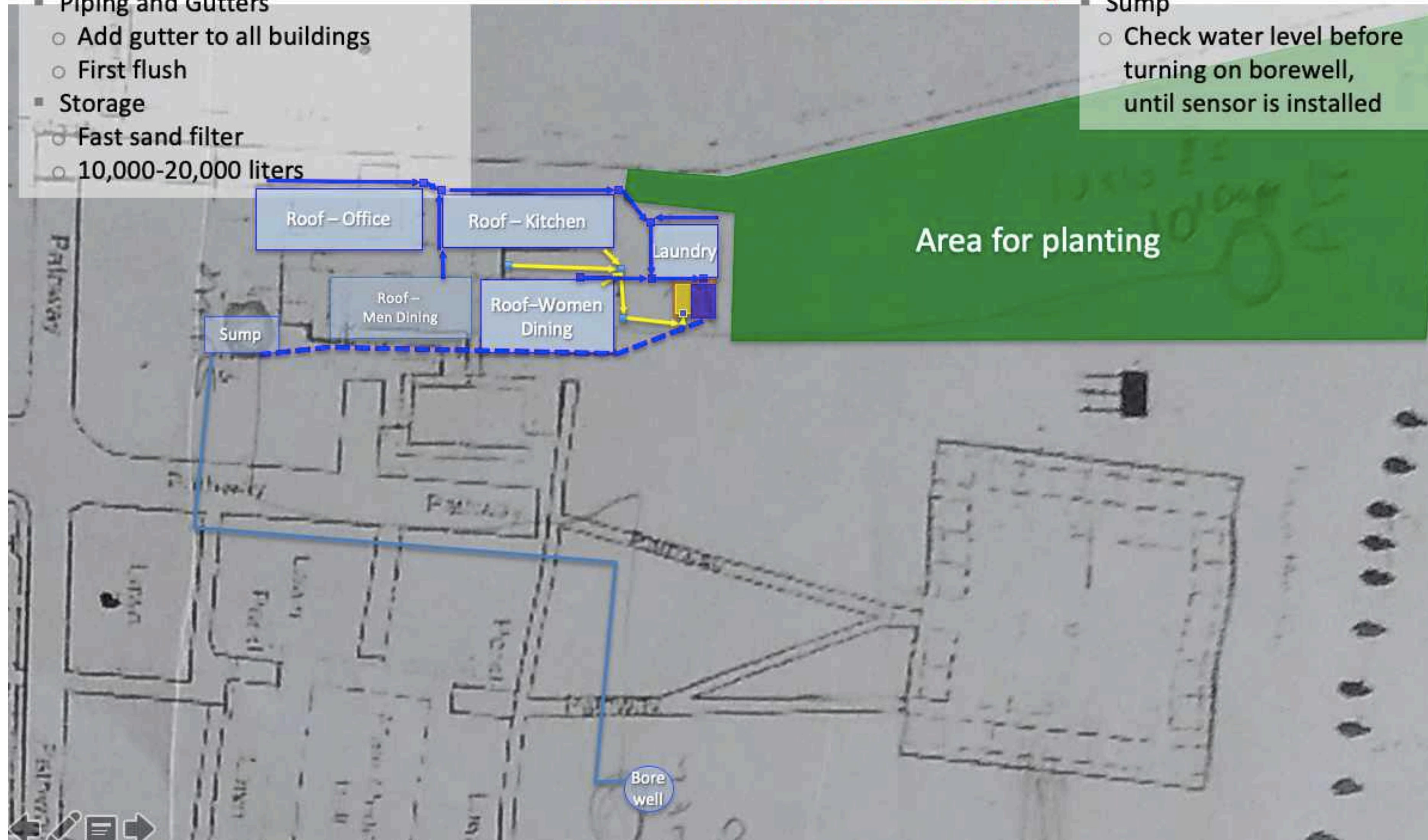
### Proposed Water Solution

#### Objective:

- To irrigate tree plantation
- RWH from roofs for water security

### Use

- Connect to main sump over roof
- Motor
  - 0.75hp motor (slow, quiet)
  - Auto-empty (sensor)
- Sump
  - Check water level before turning on borewell, until sensor is installed

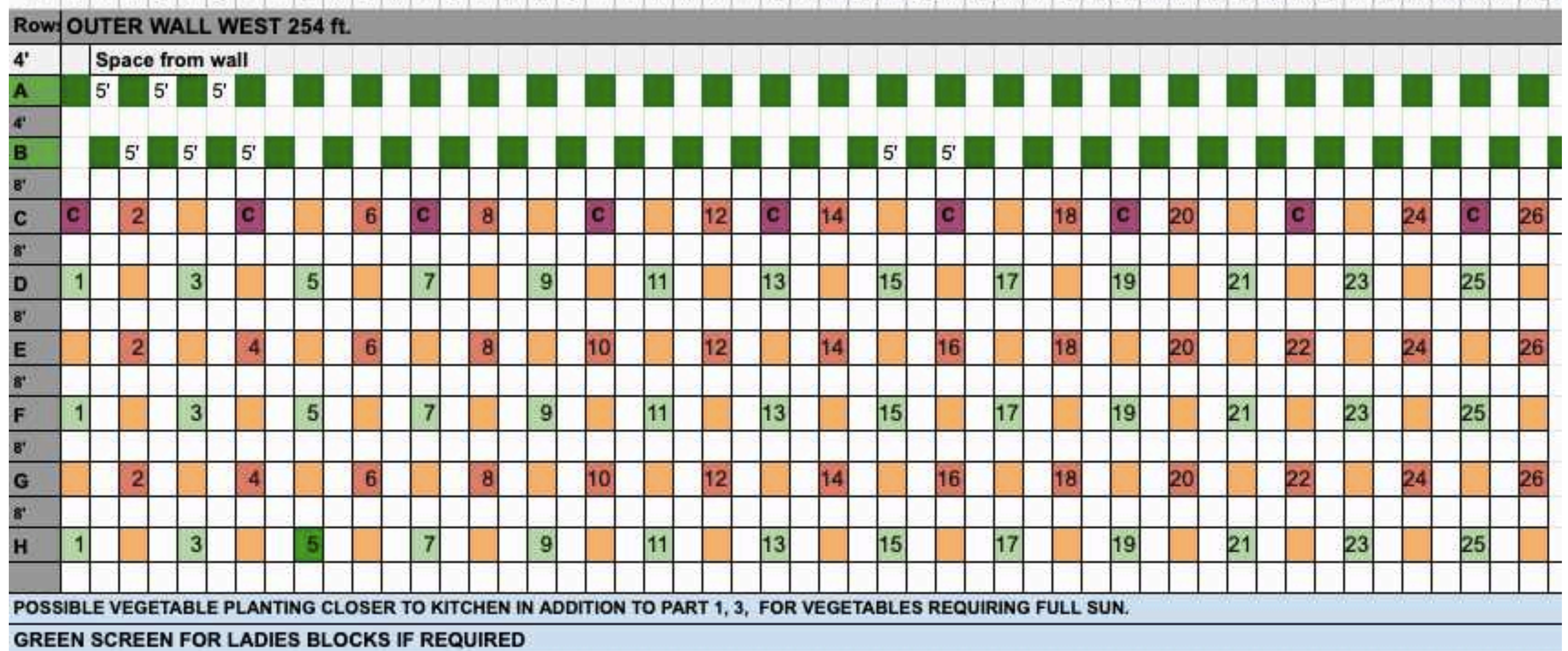


# Greenery Project: Water Supply Budget

Used water reuse	Sump (5kl)	50,000	
	Motor+sensor	12,000	
	Piping	10,000	
	Filter	10,000	
RWH	Sump (12kl)	120,000	202,000
	Motor+sensor	12,000	
	Inlet piping	15,000	
	Outlet piping	10,000	
	Filter	10,000	47,000
		Budget	249,000

Rs.50,000 added for additional water storage etc

The total budget now Rs.3,00,000/=



Summary of trees		
#	Polyalthia Longifolia (Asoka)	122
C	Coconut	9
	Tall trees	35
	Medium size trees	39
	Kitchen support small trees	34
	Other small trees	39
TOTAL TREES		278

The Water Requirement  
for this ~13,000 SqFt Area  
will be btw 300 and 400 litres per day!

# Greenery Project Costs

Water Resources & Management (Rs.47,000 can be deferred to later months)	3,00,000
JCB, Manure and Soil Preparation (Little bit on higher side)	30,000
Cost of the plants etc	30,000
Drip Irrigation, Pumps and other necessary systems (switch on and switch off for watering)	30,000
Year 1 - Maintenance Costs (From October 2020 to September 2021; over budgeted; not required upfront, spread over 12 months)	1,00,000
Miscellaneous Expenses (Any unanticipated costs / challenges)	10,000
Total Rupees	4,99,000

# Maintenance - Short, Medium & Long-Terms

- **Year 1**
  - Maintenance costs and work loaded upfront
  - This team is responsible and on rotation will take care / supervise
- **Year 2**
  - Trees maintenance costs will get reduced by 50%
  - Veggies, Greens will stay constant
  - A dedicated labor will help
  - This team will ensure proper handover
  - Create a platform of volunteers to ensure upkeep is continued
- **Year 3**
  - Trees maintenance costs will be very negligible
  - Platform of volunteers should keep the continuity
  - 80% to 90% of Kitchen requirements will be fully met and centre will be saving costs of vegetables, greens etc.

# Opportunity to Earn Paramis

- Greenery Project is an excellent opportunity for Vipassana Meditators to “earn paramis”:
  - Creativity
  - Physical Work
  - Dana by kind
  - Dana by cash
- Digital Broadcasts will be made to all the Vipassana Meditators: via WhatsApp, Email, Telegram, Project Detailed Hoardings etc
- **Currently - Rs.1,15,000/= Dana Received and readily available to kickstart the project**

# Dana Parami - How to?

- Please fill out the “Google Form”,  
if you have not already signed for Seva (Labour, Kind, Finances)

<https://forms.gle/C2NPYYZk4DPTegVh8>

- Please mention  
**“Greenery Project” in Bank’s Remarks - for all money transfers**

- **Dana Parami**

Account Name: VIPASSANA MEDITATION AND RESEARCH CENTRE

Account Number: 5572500100076701

Account Type: Savings

Bank Name: Karnataka Bank Ltd, Nelamangala Branch, Bengaluru

IFSC: KARB0000557

- **Note:**  
**Please mention: Greenery Project (in Bank's Remarks Column & in all your communication).**

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***Sabba papassa akaranam  
Kusalassa upasampada  
Sacitta pariyodapanam  
Etam buddhanusasasanam***

***Not to do any evil  
To do good and wholesome actions  
Purifying one's own mind  
is the teaching of all Buddhas***

**Metta**