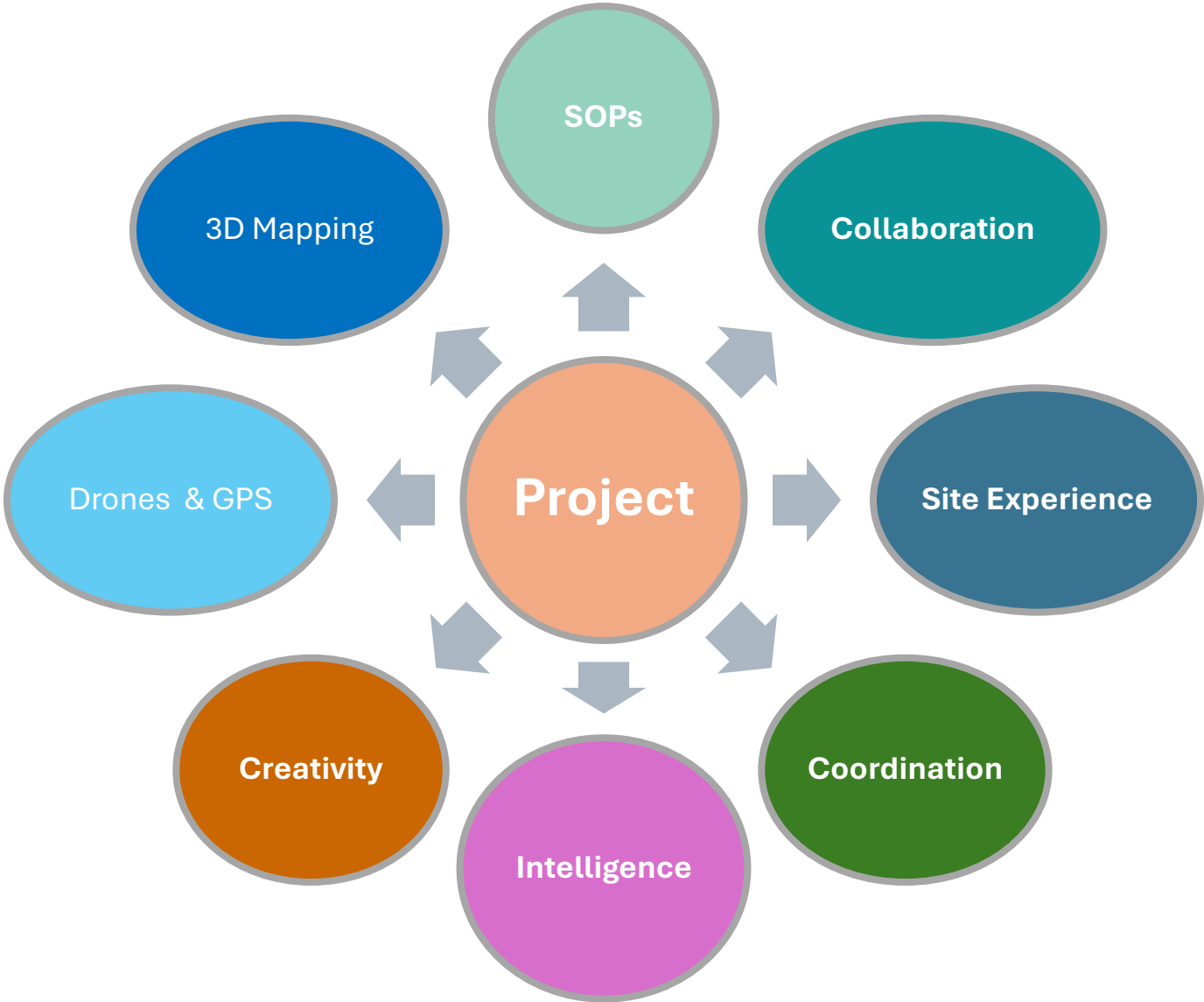


# Master Planning Studio

LIDAR Survey | Master Planning | MEP Infra | Architectural

# WHAT WE BRING TO THE TABLE



# BUSINESS OFFERINGS



Master Planning Studio

1

**LIDAR  
Survey**

In-House

2

**Master  
Planning**

In-House

3

**Road  
Designing**

In-House

4

**Site Services  
(MEP)  
Designing**

In-House

5

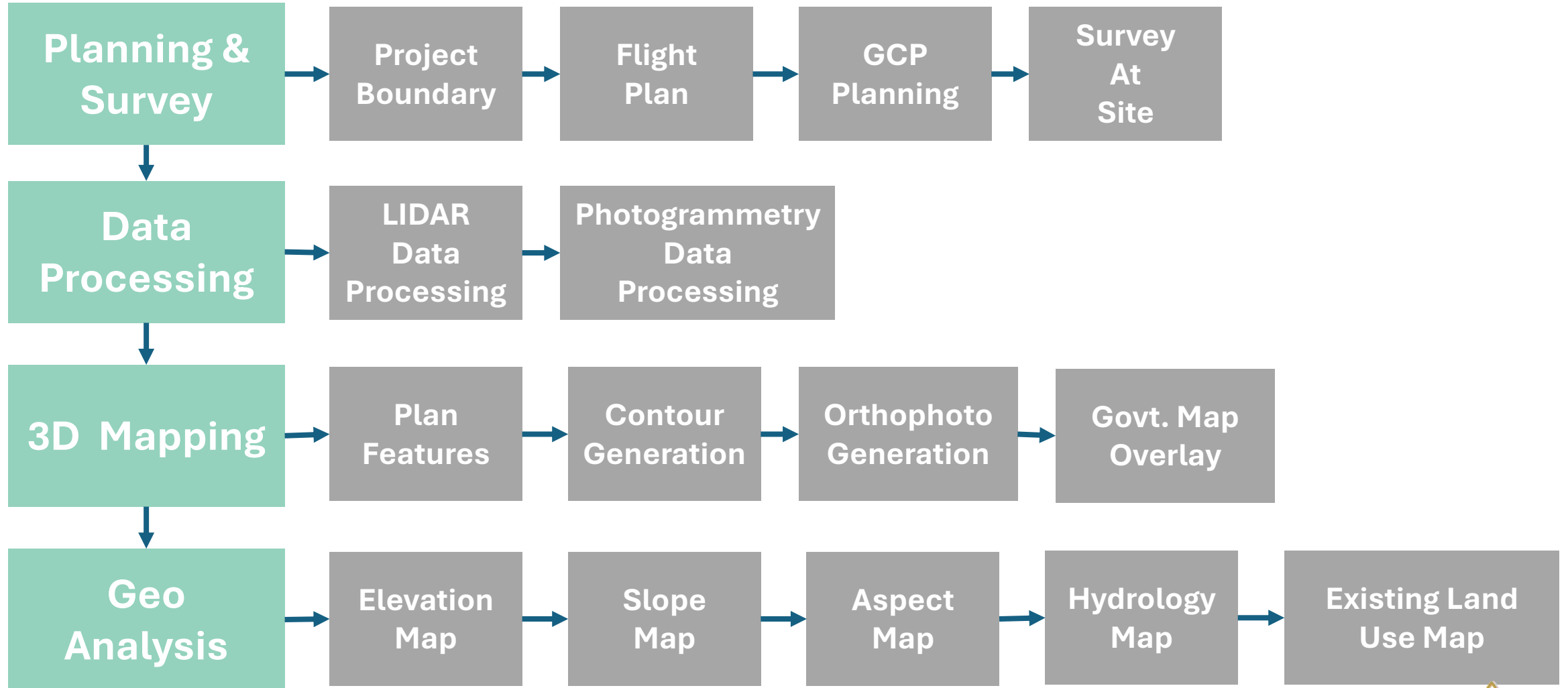
**Architectural  
Designing**

In-House

1

# LIDAR SURVEY

## DATA CAPTURE AND PROCESSING



1

LIDAR SURVEY

INPUT DATA: GOOGLE KML BOUNDARY



← | N/A | Aircraft disconnected | 0 RC X | ⏏ | ⋮

Mapping Area: 40.0acre | Est. Duration: 33 m 24 s | Est. Storage: 3011

ASL(m) color scale: 146, 143, 139, 135, 132, 123

Oblique GSD: cm/pixel | -1 | -0.1 | 2.12 | +0.1 | +1

Smart Oblique:

Gimbal Angle: (10~45°) | - | 45 | +

Local Mapping:

Altitude Mode: AGL

Real-Time Follow:

DSM Files: Reselect >

250226073438\_AsterGdemV3\_4

Terrain Follow Altitude: (82 0~4921 2ft)



## Drone Survey at Site



DGPS Survey



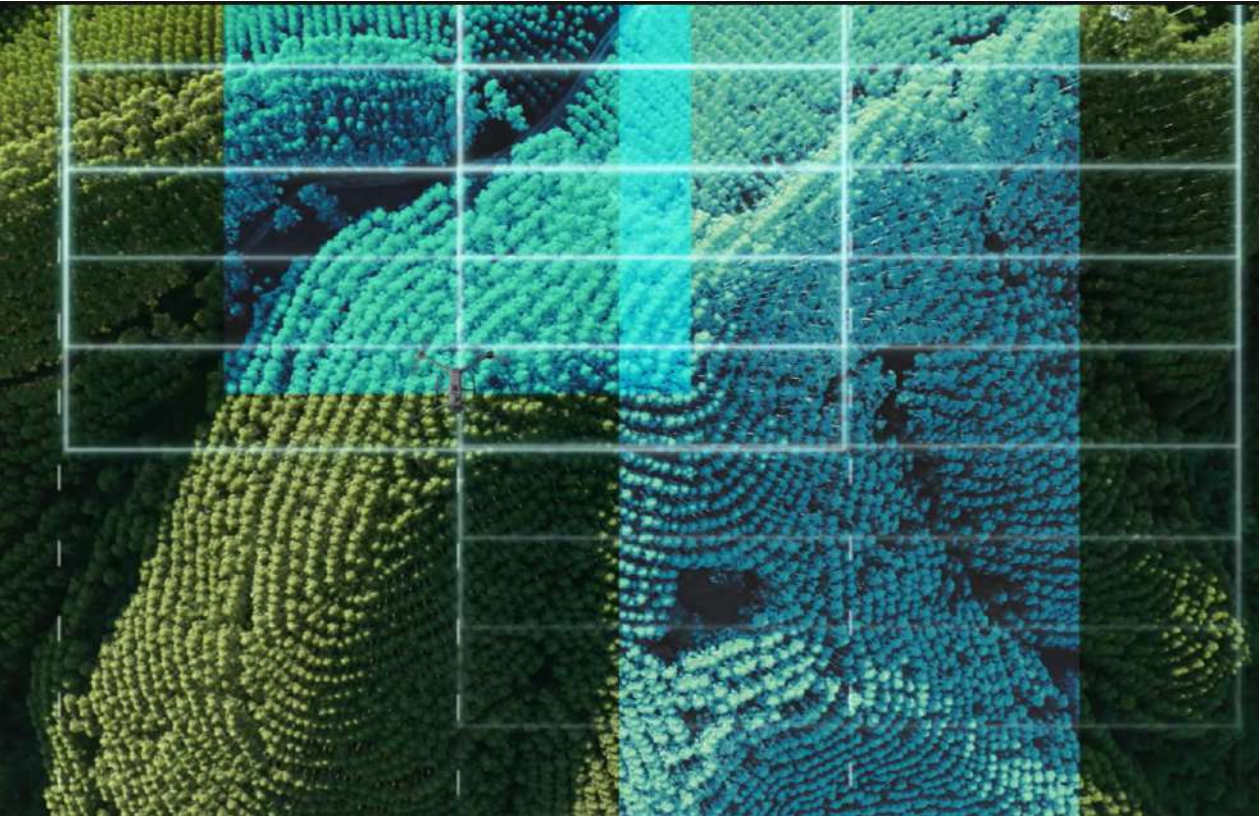
Panel Marking



Commercial Drone Takeoff



Top View



Data Coverage

Elevation View



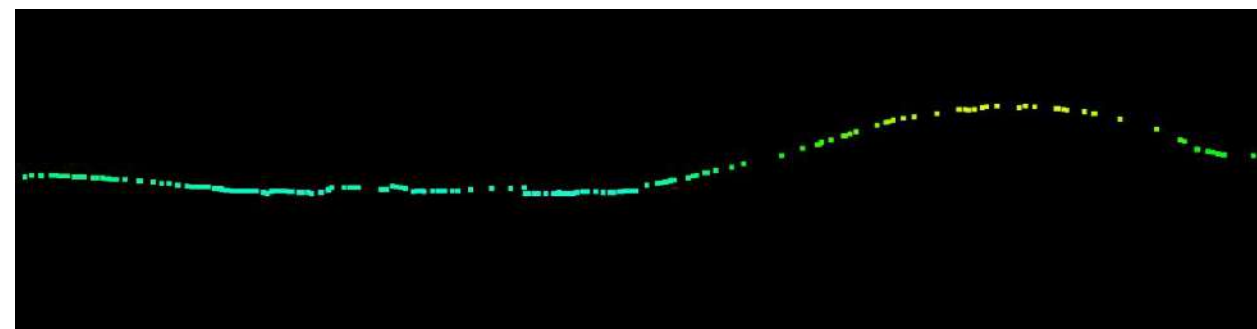
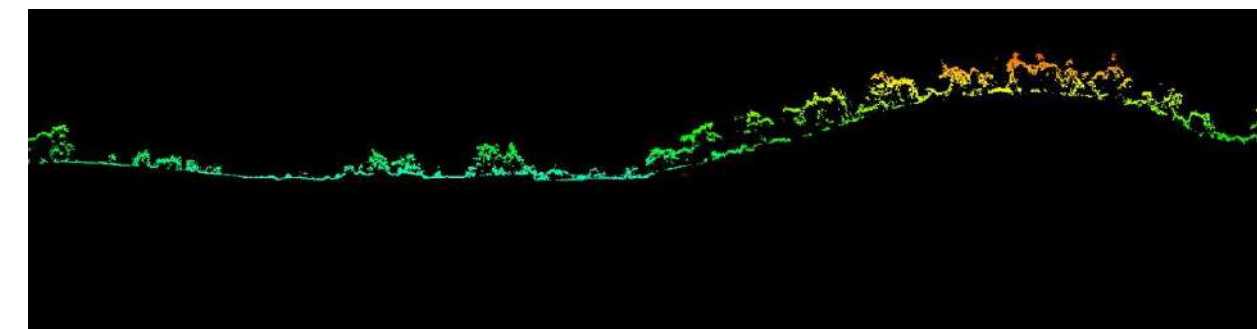
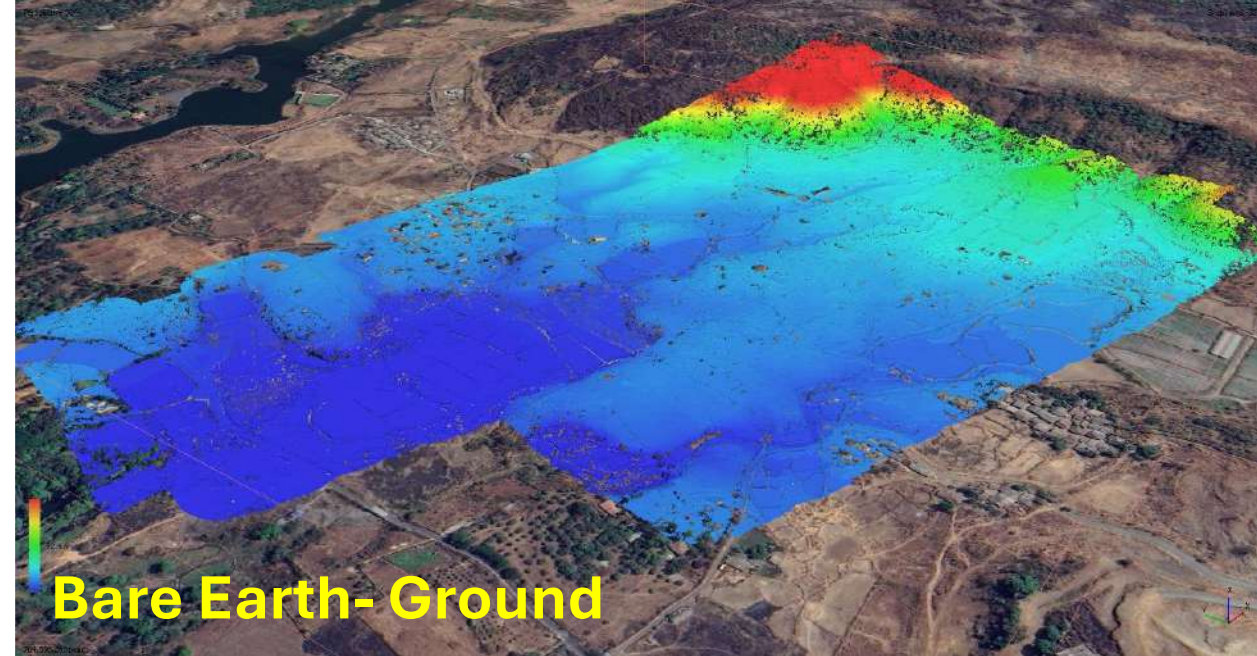
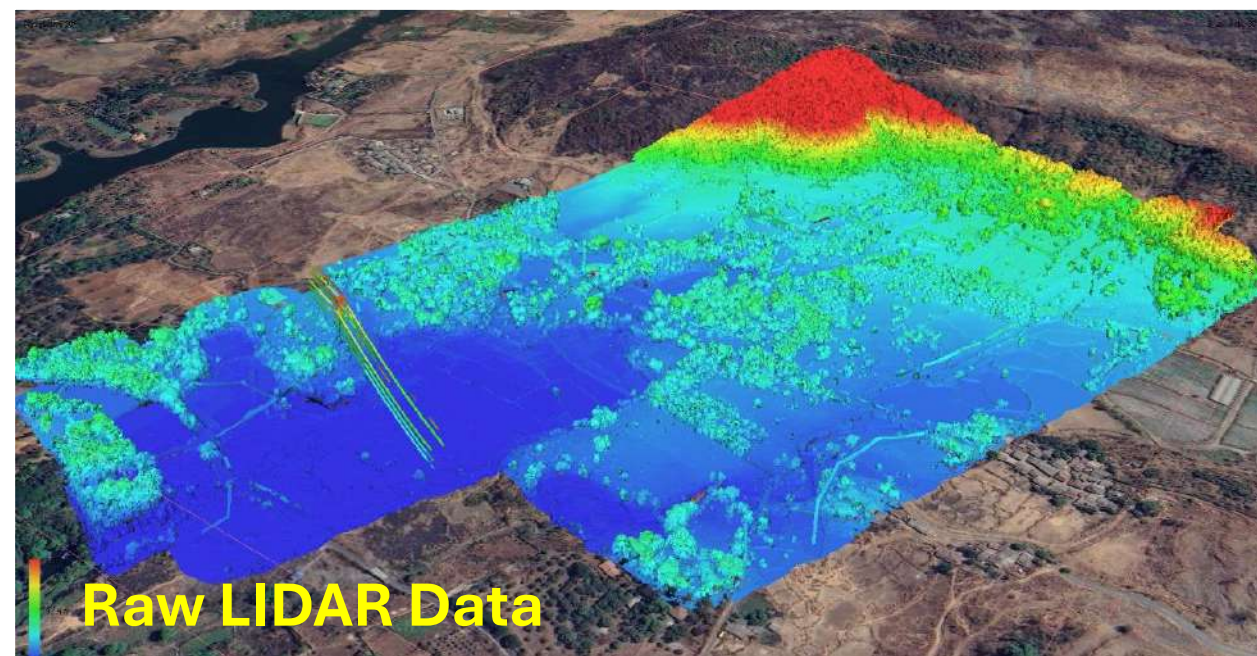
Laser Penetration thru Foliage



1

LIDAR SURVEY

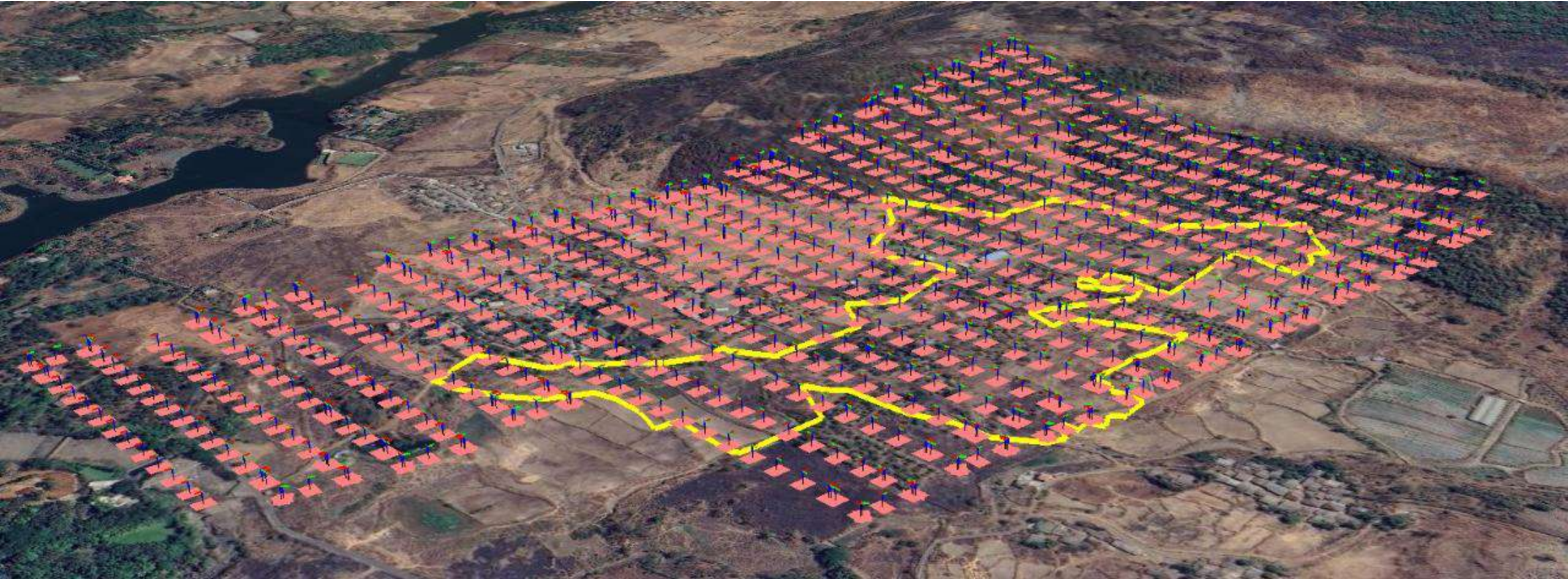
# Data Processing: LIDAR Data Processing



1

LIDAR SURVEY

# DATA PROCESSING: AERIAL TRIANGULATION





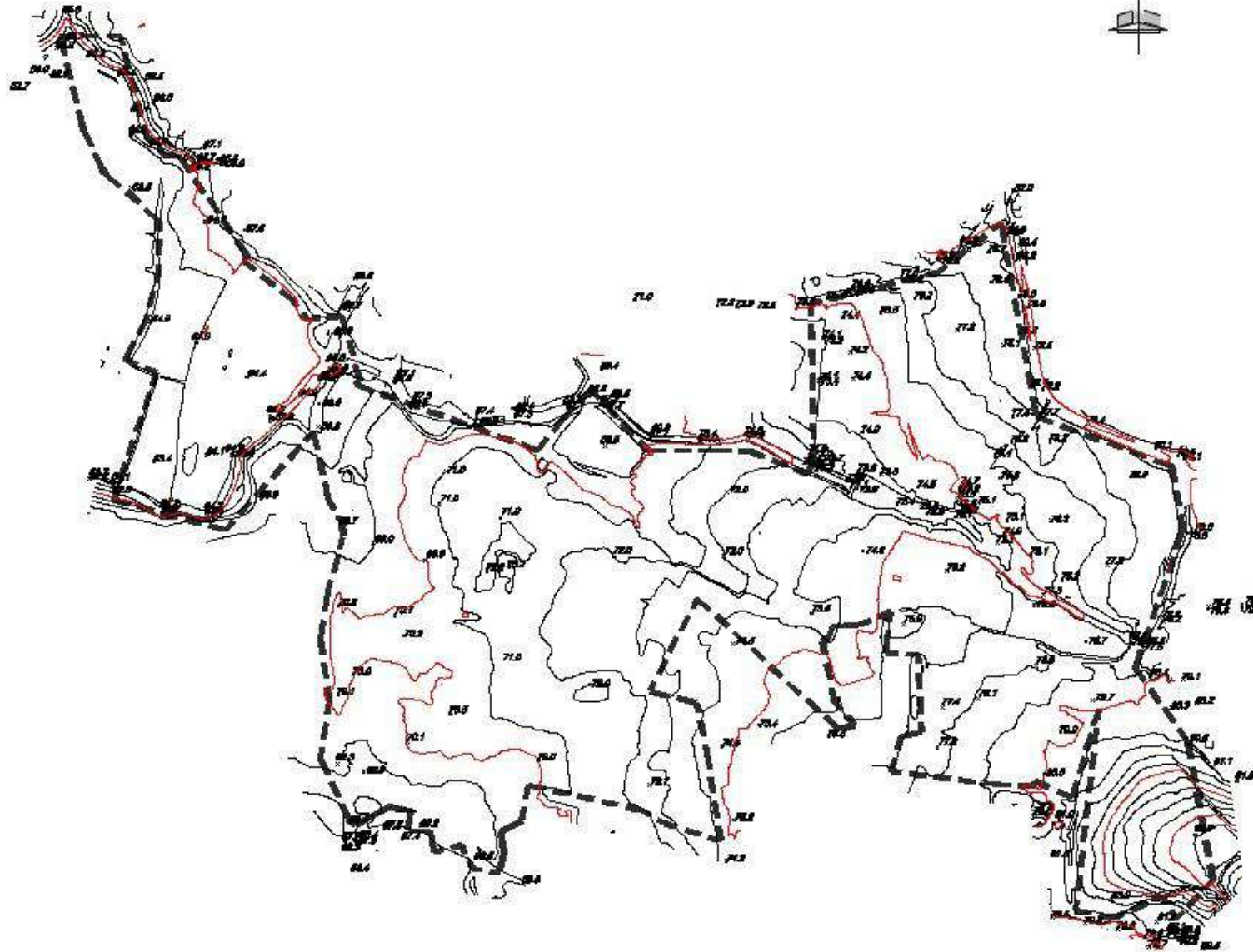
1

LIDAR SURVEY

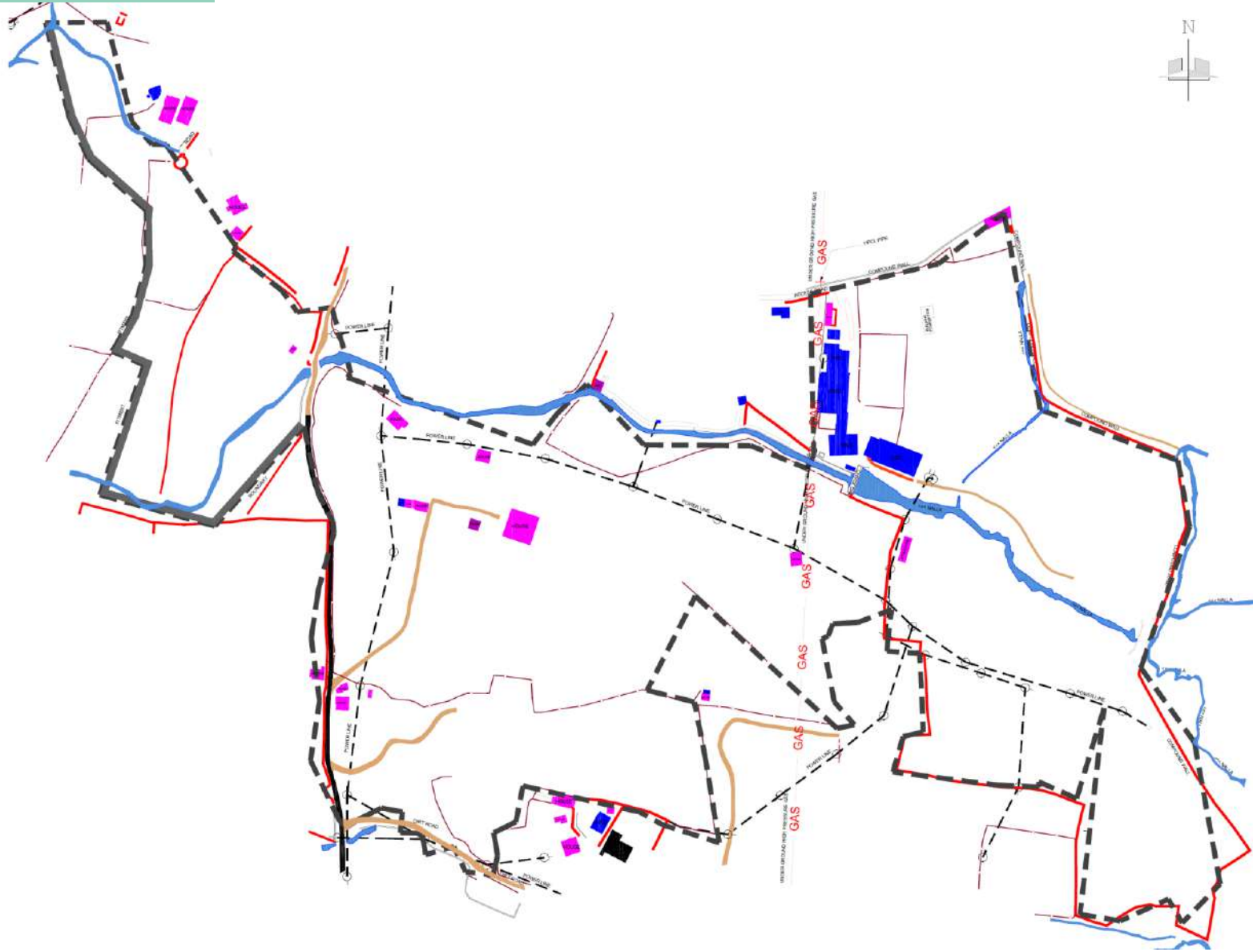
# 3D STEREOSCOPIC MAPPING: 3D WIREFRAME GENERATION



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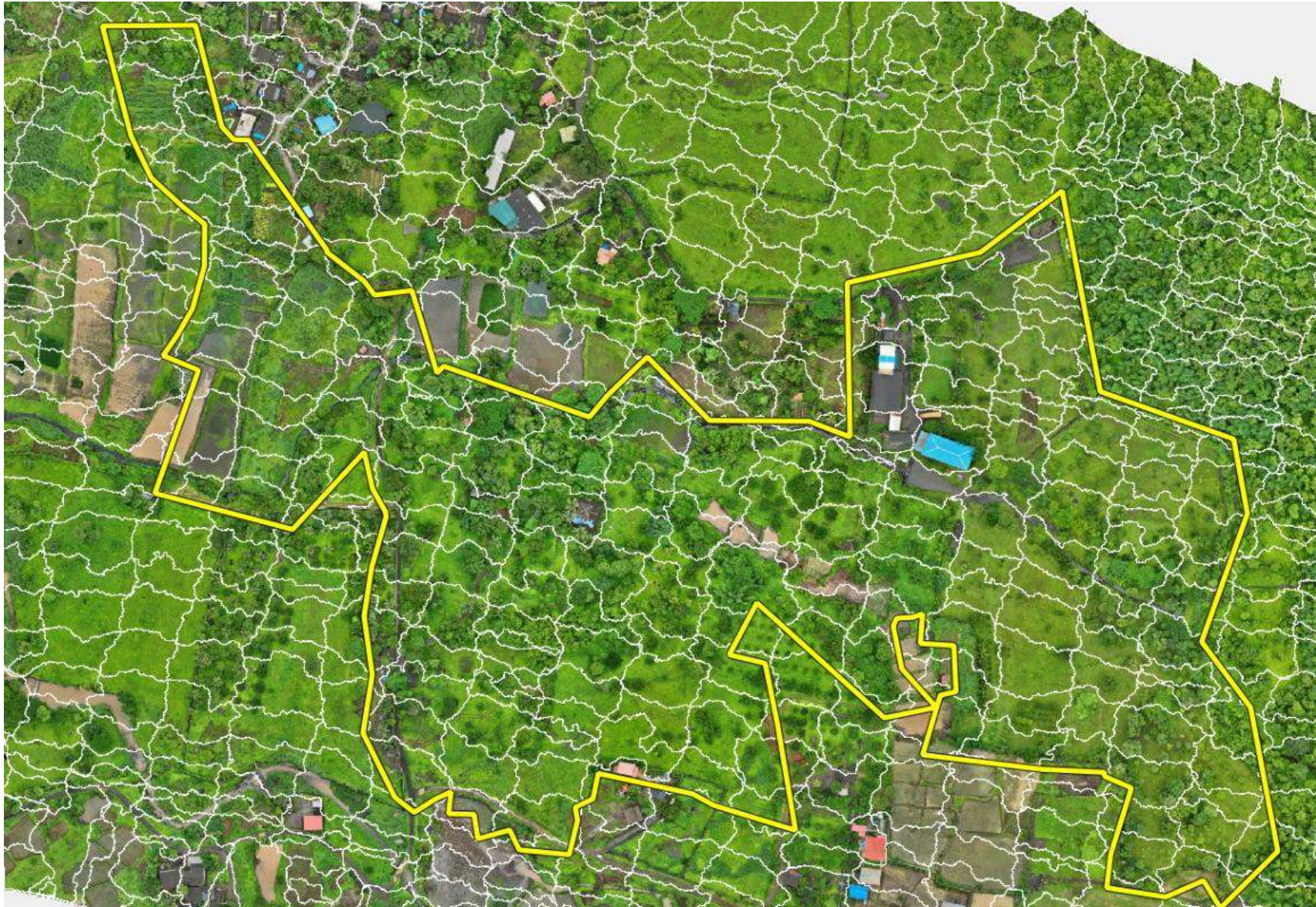
## 3D STEREOSCOPIC MAPPING: PLAN FEATURE CAPTURE



1

LIDAR SURVEY

# ORTHOPHOTO GENERATION: SEAM EDITING



1

LIDAR SURVEY

# ORTHOPHOTO GENERATION: SEAMLESS ORTHOPHOTO MAP



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Elevation Map

Slope Map

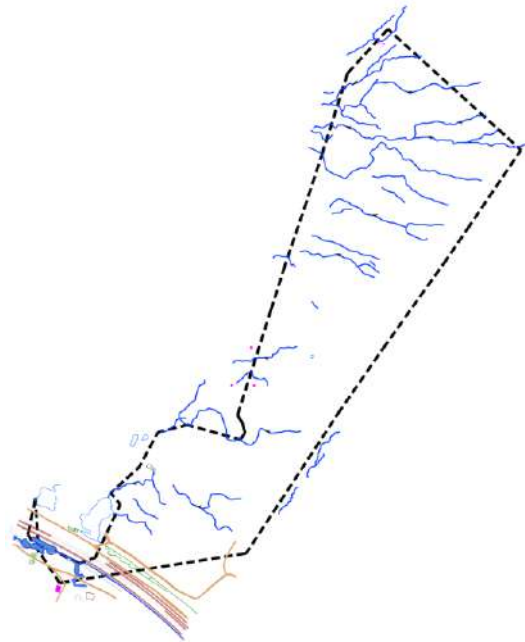
Hydrology Map

Aspect Map

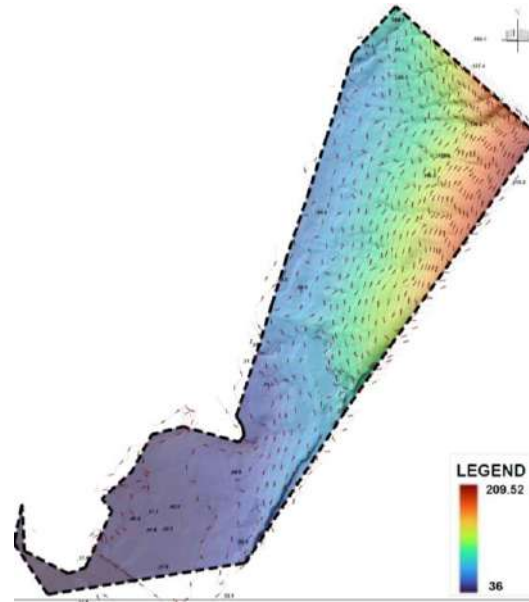
TWI Map

Wind Map

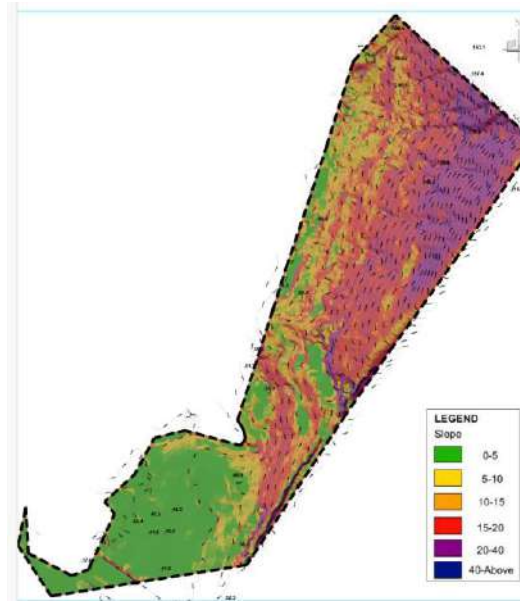
Sun Path Map



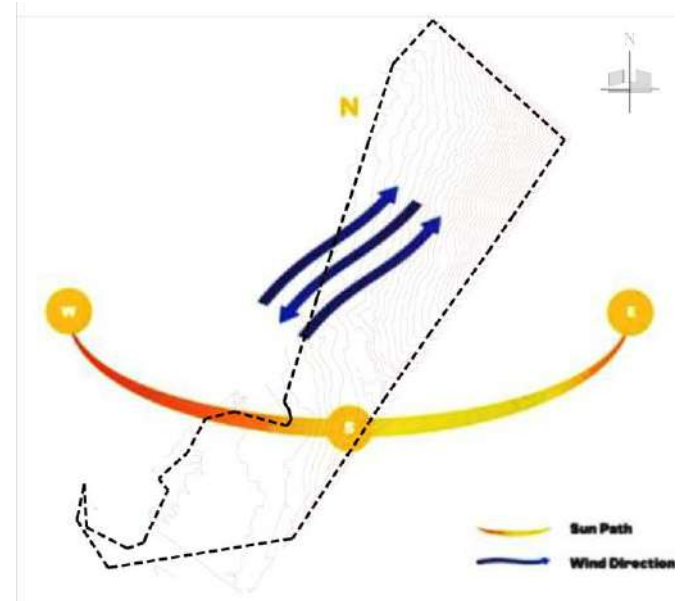
Hydrology Map



Elevation Map



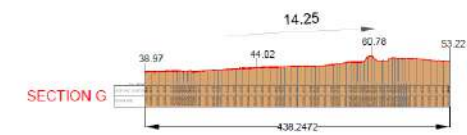
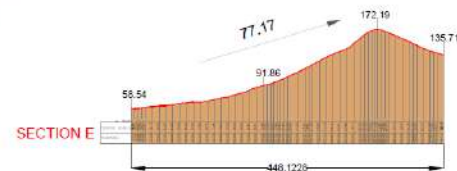
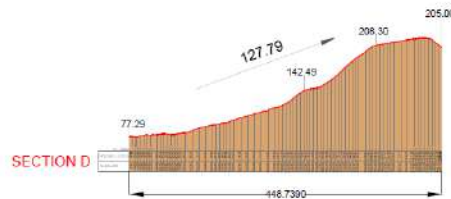
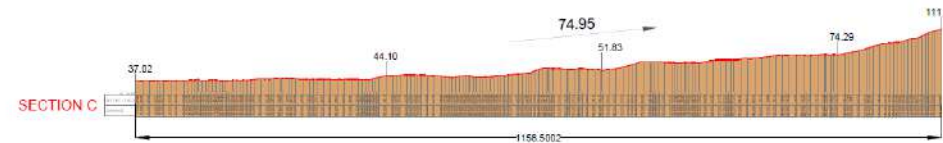
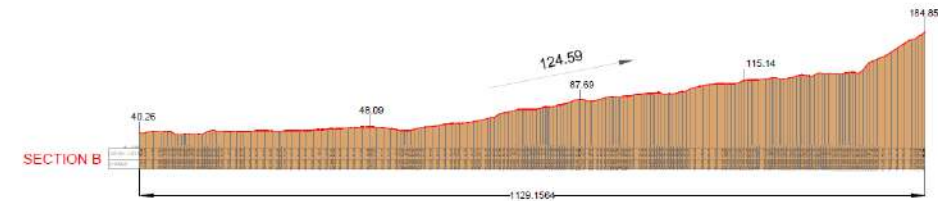
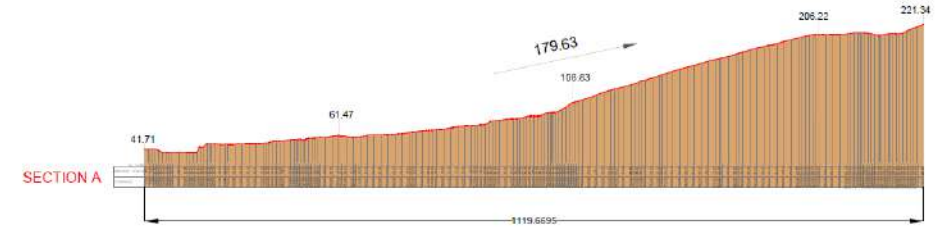
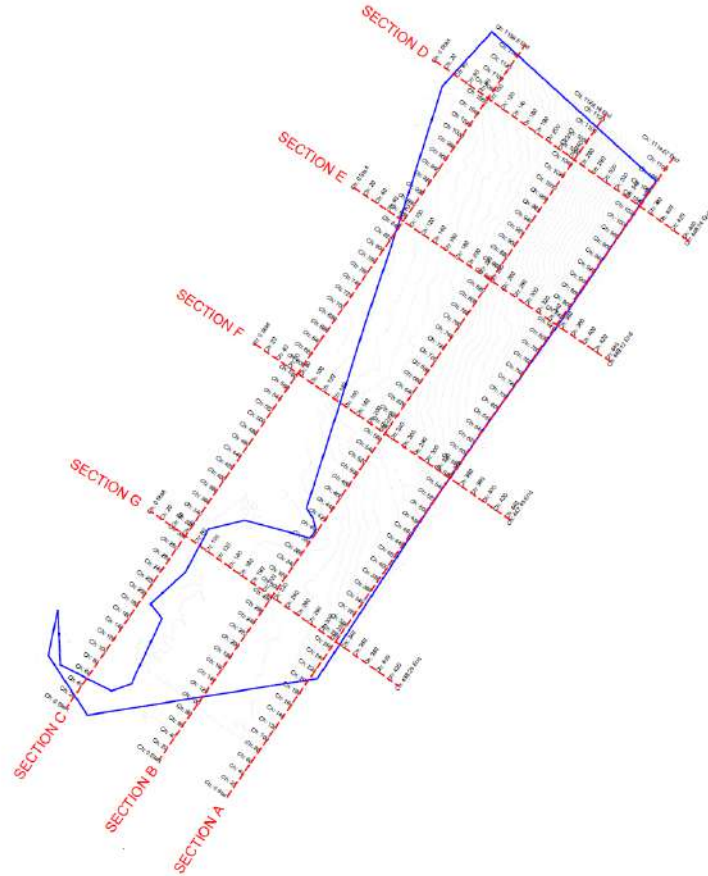
Slope Map



Sun Path Map



# Site Cross Sections and Long Sections



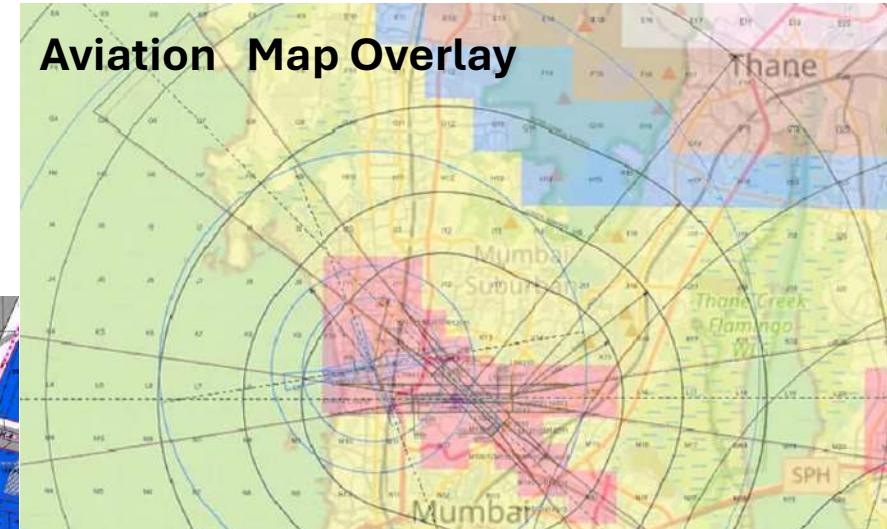
GAT Map Overlay



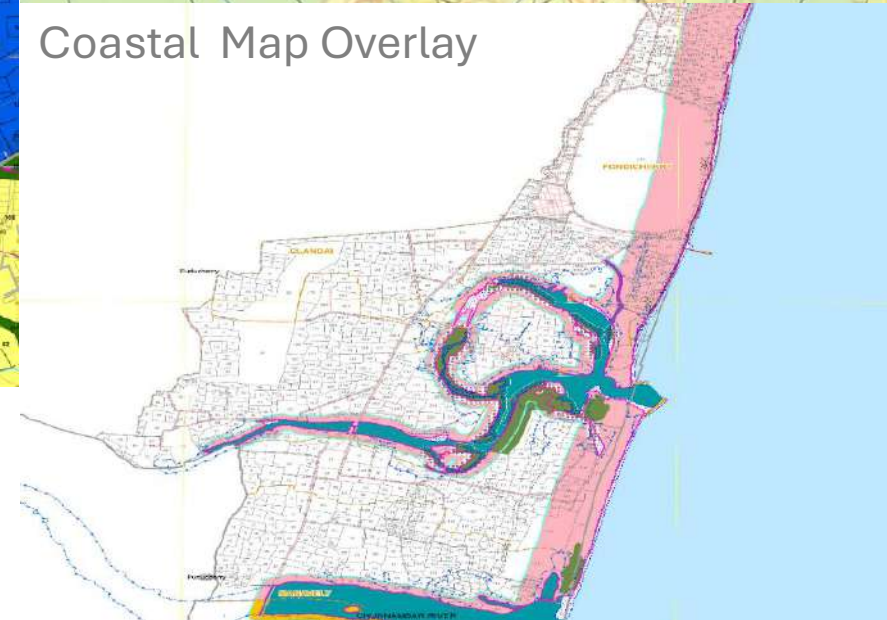
Zone Map Overlay



Aviation Map Overlay



Coastal Map Overlay



Regulations

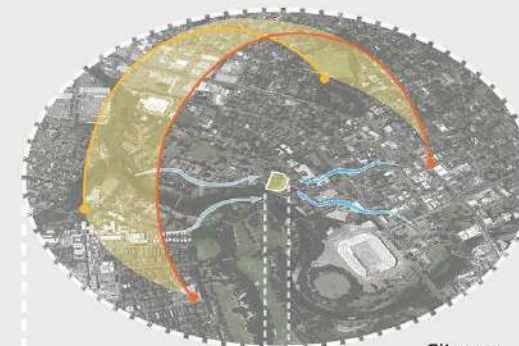
Site  
Analysis

Client Brief

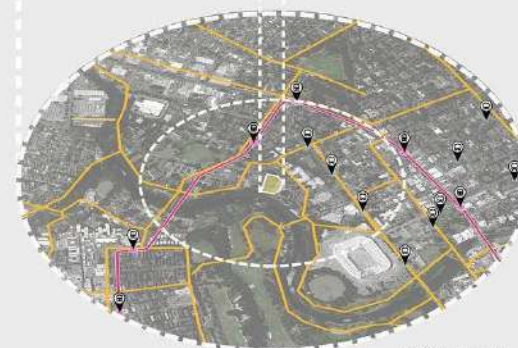
Design Intent



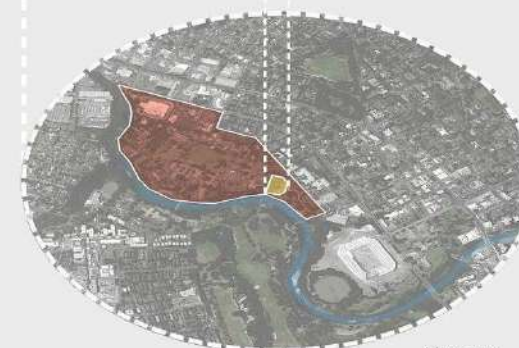
Regulation



Climate



Transport



History



Concept

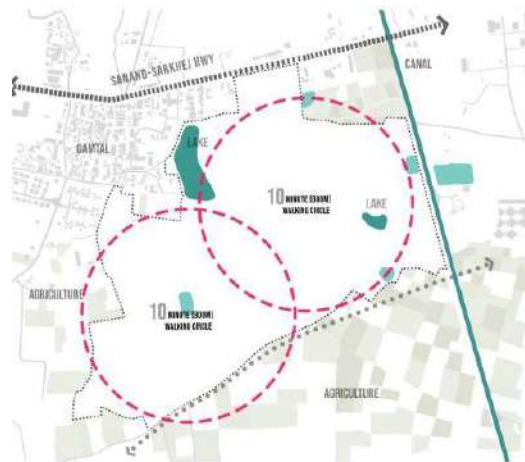
Draft

Final

Release

Vision Formulation and Design Strategies

Vision and objectives



A 10 minute integrated township that focuses on human interaction through a network of diverse open spaces

Spatial design strategies

LINK

Link different ecological assets (lakes, canal, farmlands) to create an adaptable landscape framework



GREEN FINGERS

OPEN SPACES

Diverse typology and hierarchy of open spaces



VISUAL CONNECTION

NETWORK

Well connected neighborhood with safe mobility for all



MULTI MODAL NETWORK

COMPACT DEVELOPMENT

Creating mix of densities with diverse typologies



ORIENTATION OF THE BUILT

Masterplan and Design Development

Masterplan



Masterplan characteristics



Built 22% (55.4 Ac)  
Unbuilt 78% (196.6 Ac)



Total road percentage 6.4% (66.3 Ac)



Residential 64.8% (29.7 Ac)	Commercial 12.4% (27.9 Ac)
Mixed Use 16.5% (7.1 Ac)	Recreational 1.9% (0.8 Ac)
Institutional 4.4% (0.9 Ac)	



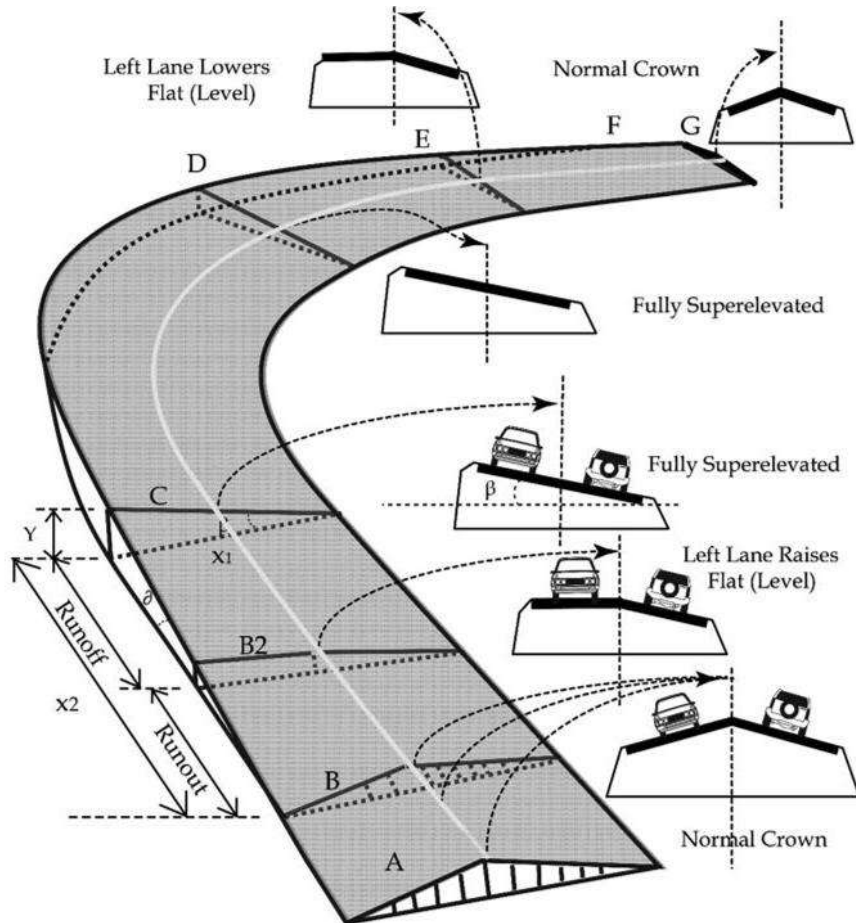
Horizontal

Vertical

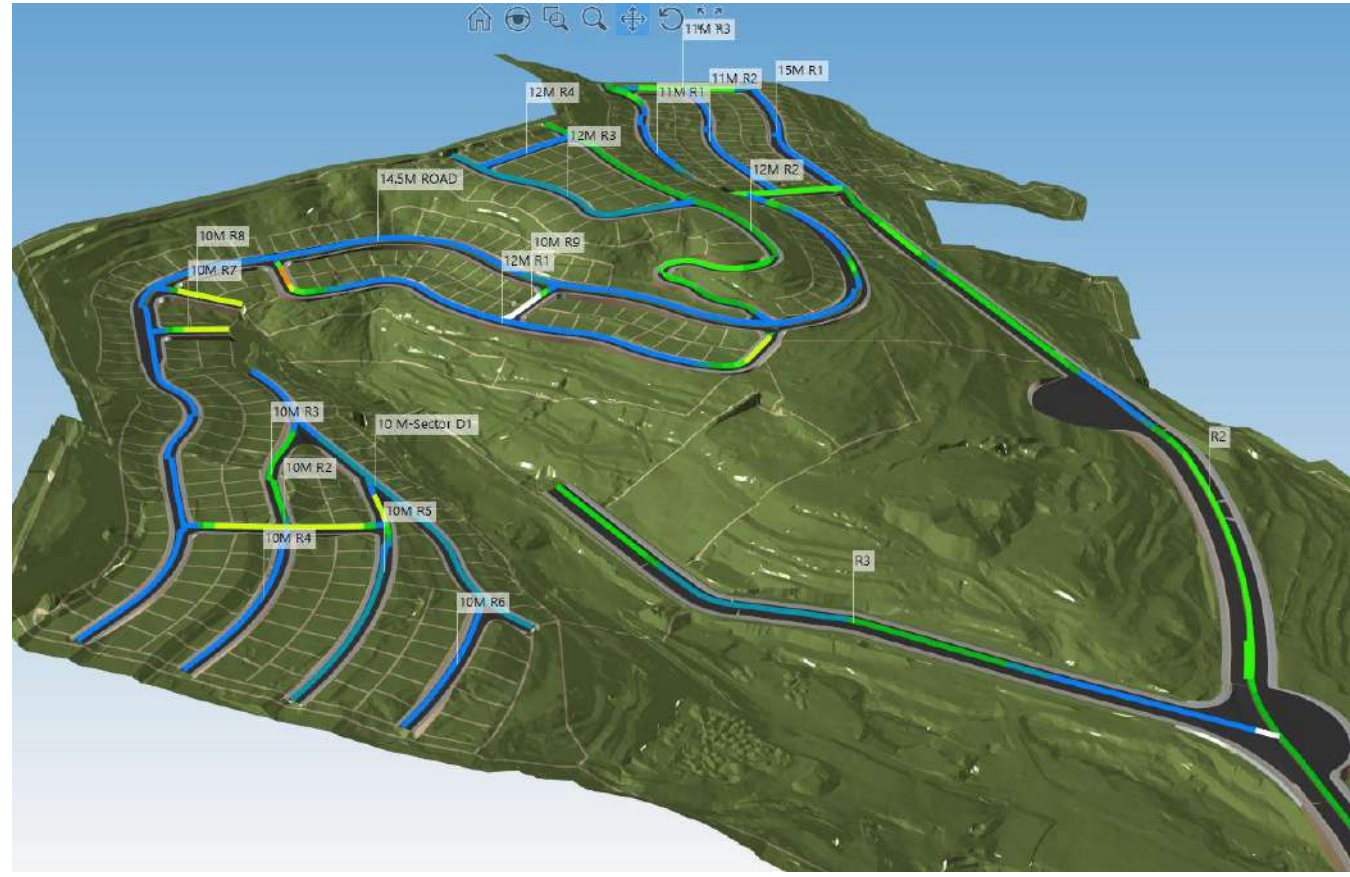
Sections

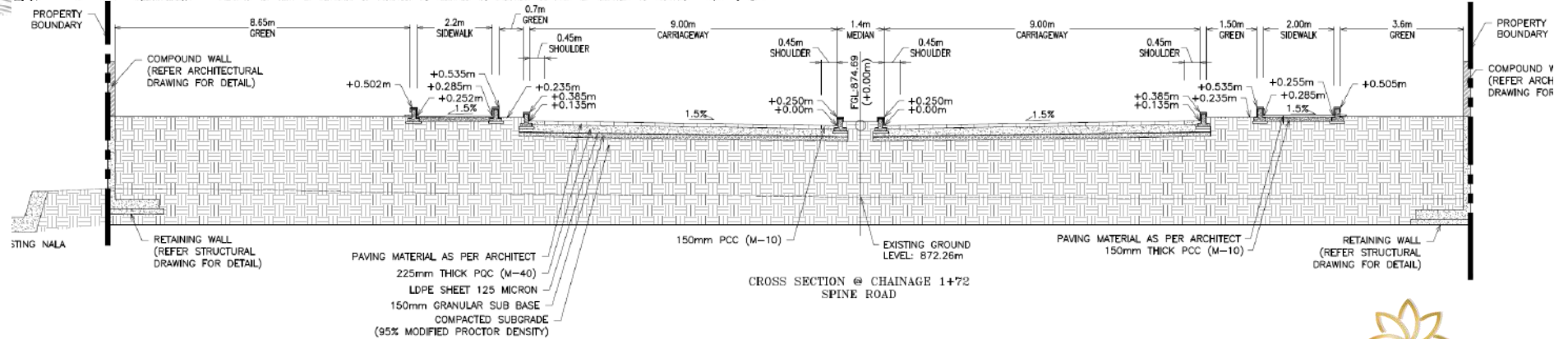
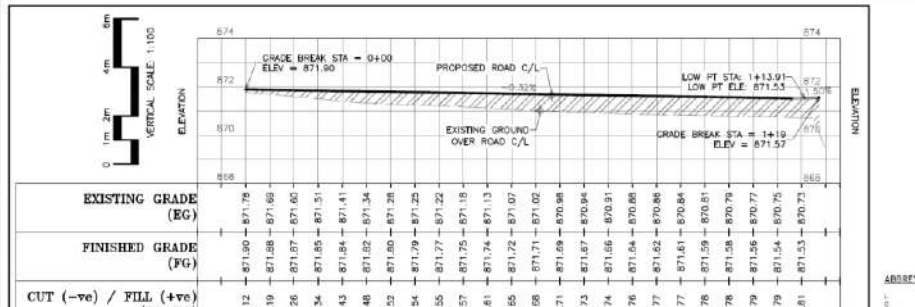
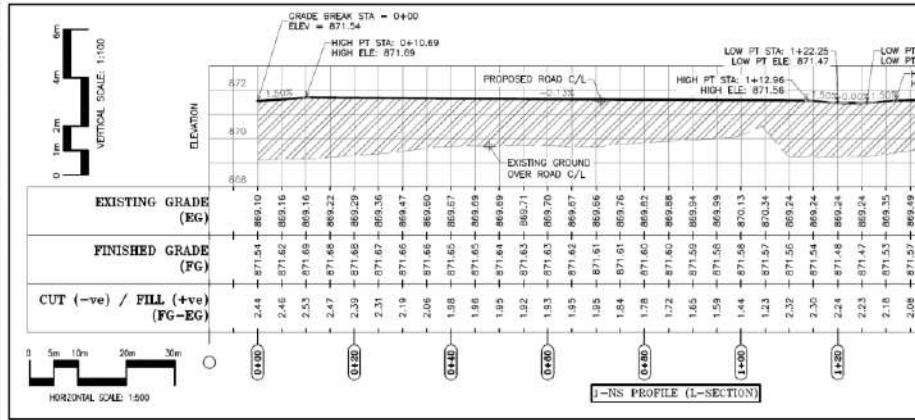
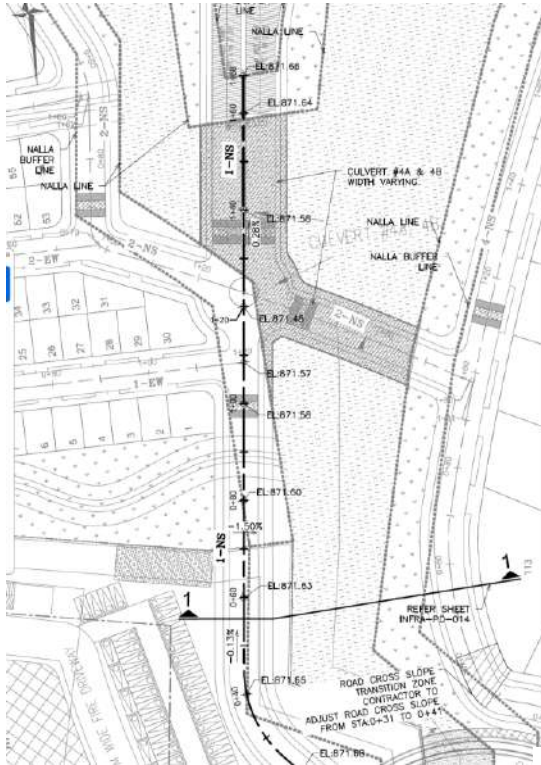
Plan

BOQ



## ROAD GRADING AND CUR-FILL ESTIMATION





Storm Drain

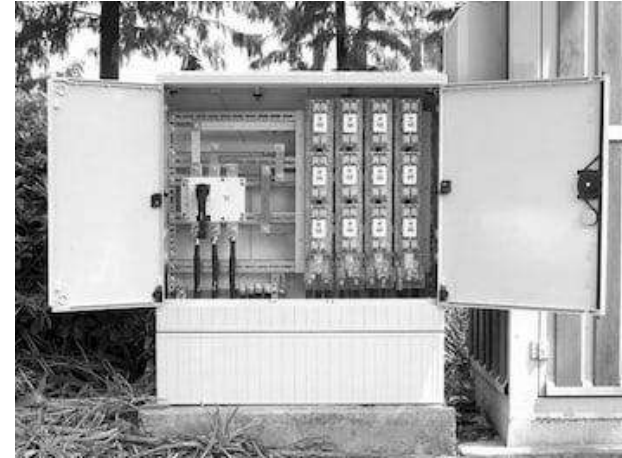
Sewer Drain

Electrical

Water

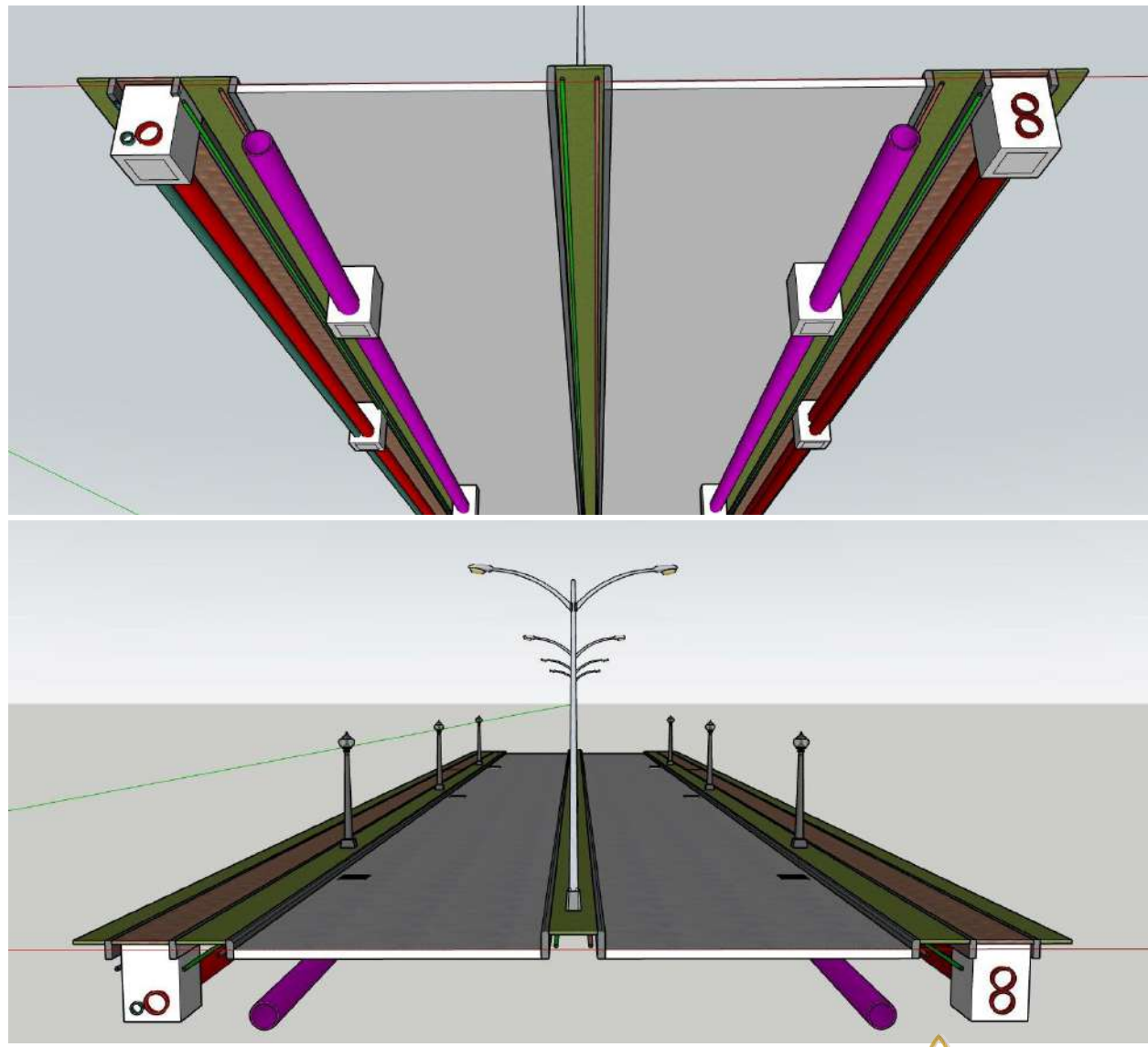
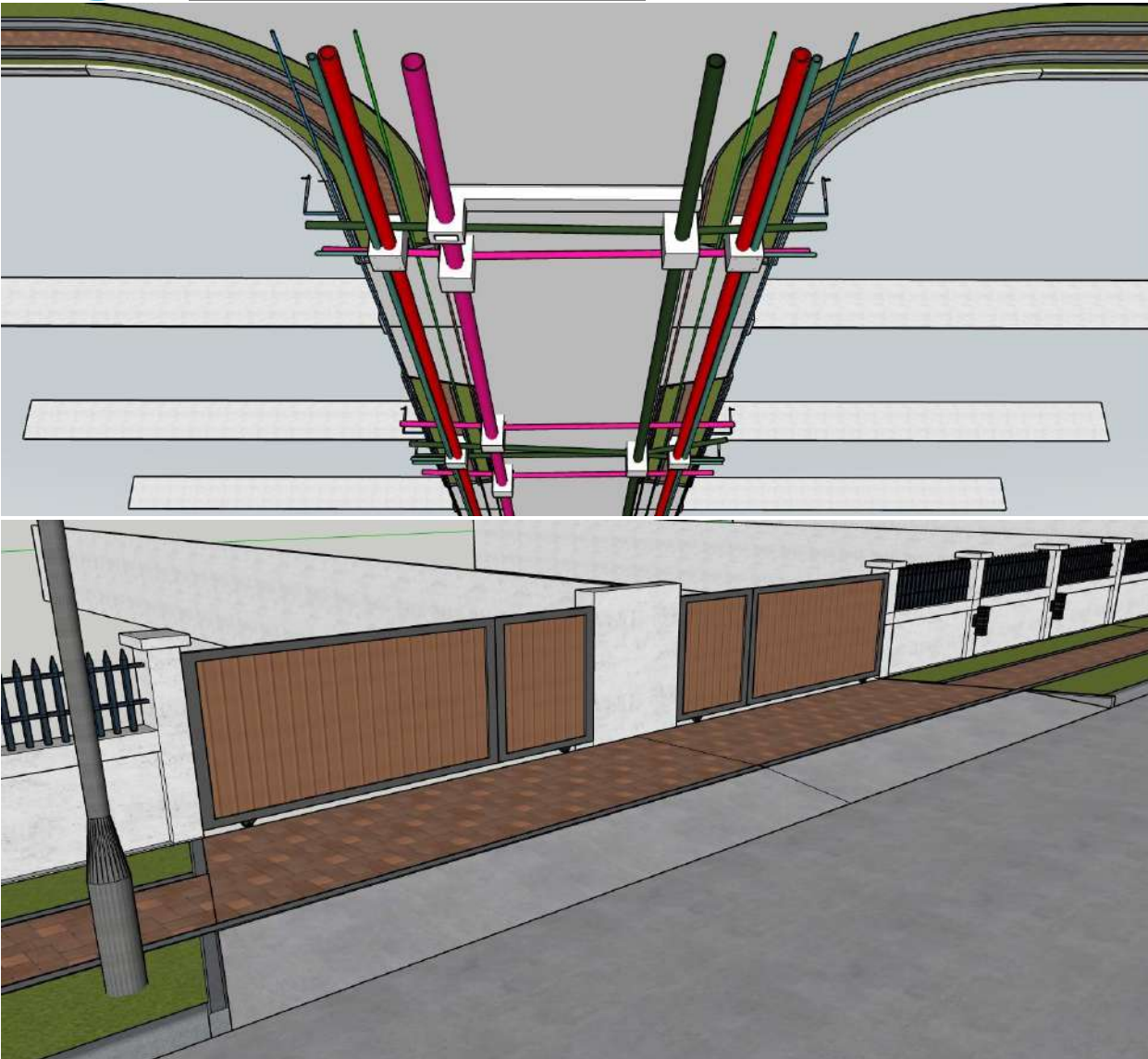
ICT

Irrigation

Street  
LightingWaste  
Management

BOQ and Cost Estimation





Concept

Schematic

Design  
and  
DetailingWorking  
Drawing

BOQ





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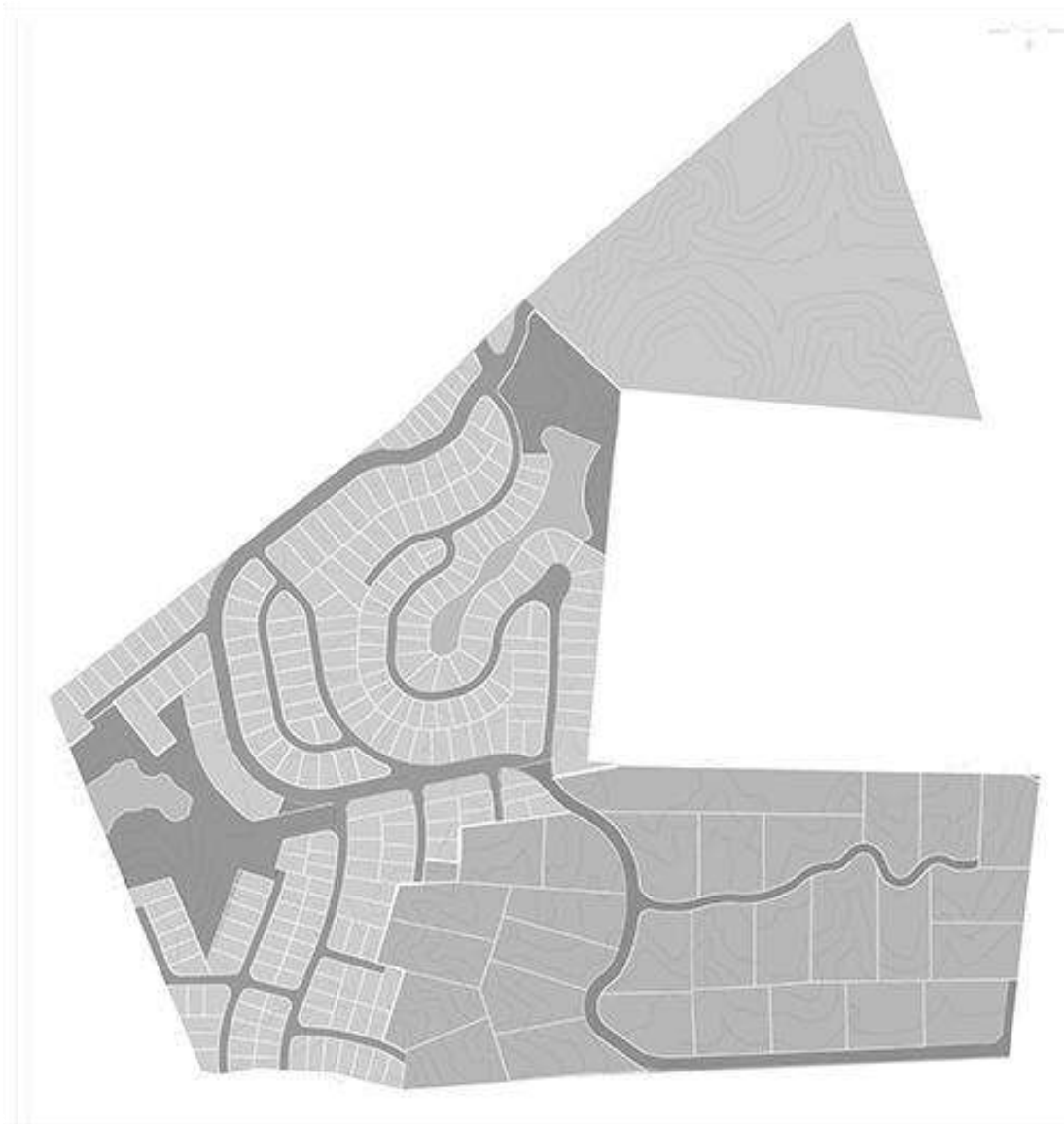
## 1. Drone Survey :

1. Camera Drone Survey + Stereoscopic Photogrammetric Mapping
2. LIDAR Drone Survey + Stereoscopic Photogrammetric + LIDAR Mapping

## 2. Geo Analysis :

1. Elevation Map
2. Slope Map
3. Aspect Map
4. Hydrology Map
5. Land Cover Map
6. Land use Map
7. Zone Map
8. Aviation NOC Map





## 1. Master Plan:

1. Plot Spaces
2. Recreational Spaces
3. Road Network
4. Ancillary Spaces
5. Resort and Hotels

## 2. Road Infra

1. Horizontal and Vertical Design
2. Retaining Wall Design

## 3. Site Services (MEP):

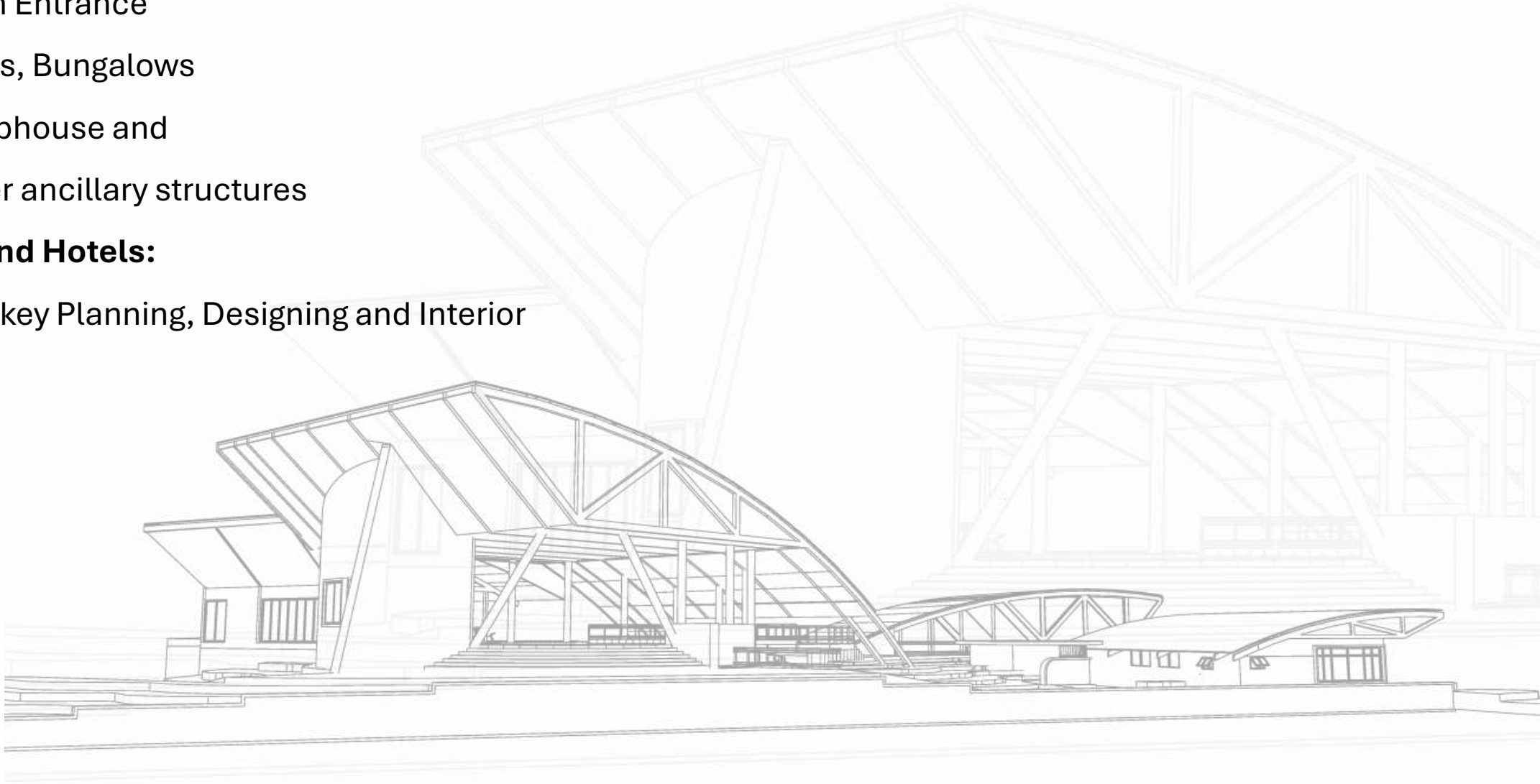
1. Storm Drain
2. Sewer,
3. Electrical
4. Water and Fire
5. Irrigation
6. ICT

## 1. Architectural + Interior Design:

1. Main Entrance
2. Villas, Bungalows
3. Clubhouse and
4. other ancillary structures

## 2. Resort and Hotels:

1. Turnkey Planning, Designing and Interior

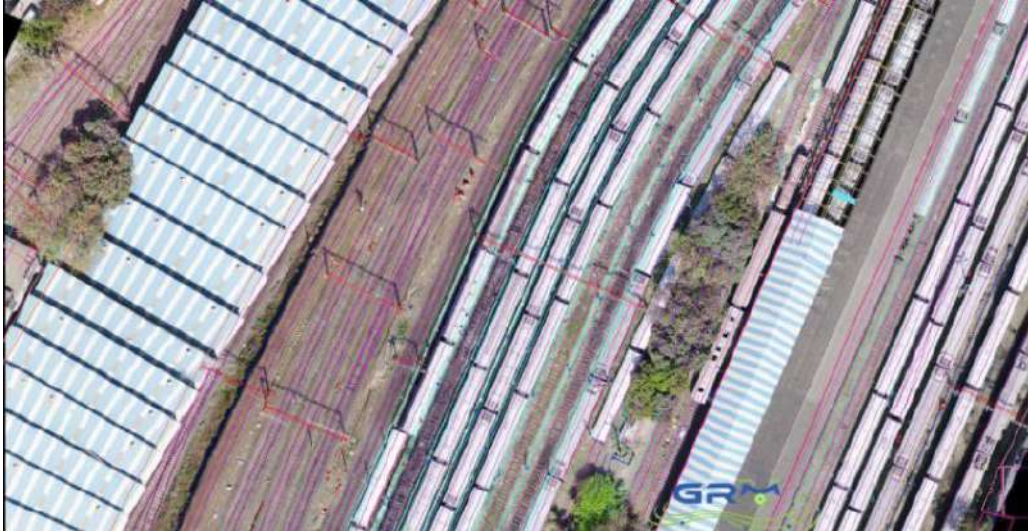


# MAPPING PORTFOLIO



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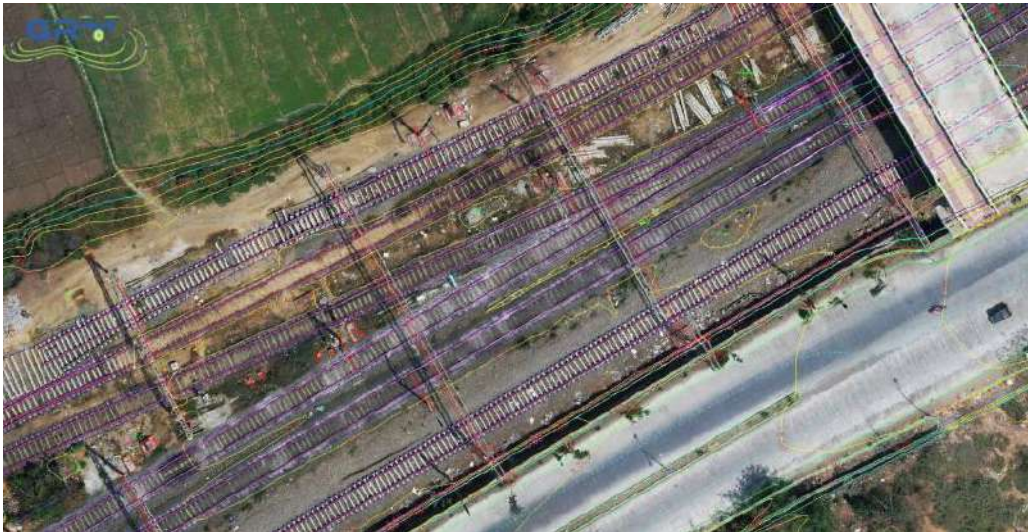
## 3500 KM Railway



## State Highway 2000km



## 1000 KM Metro

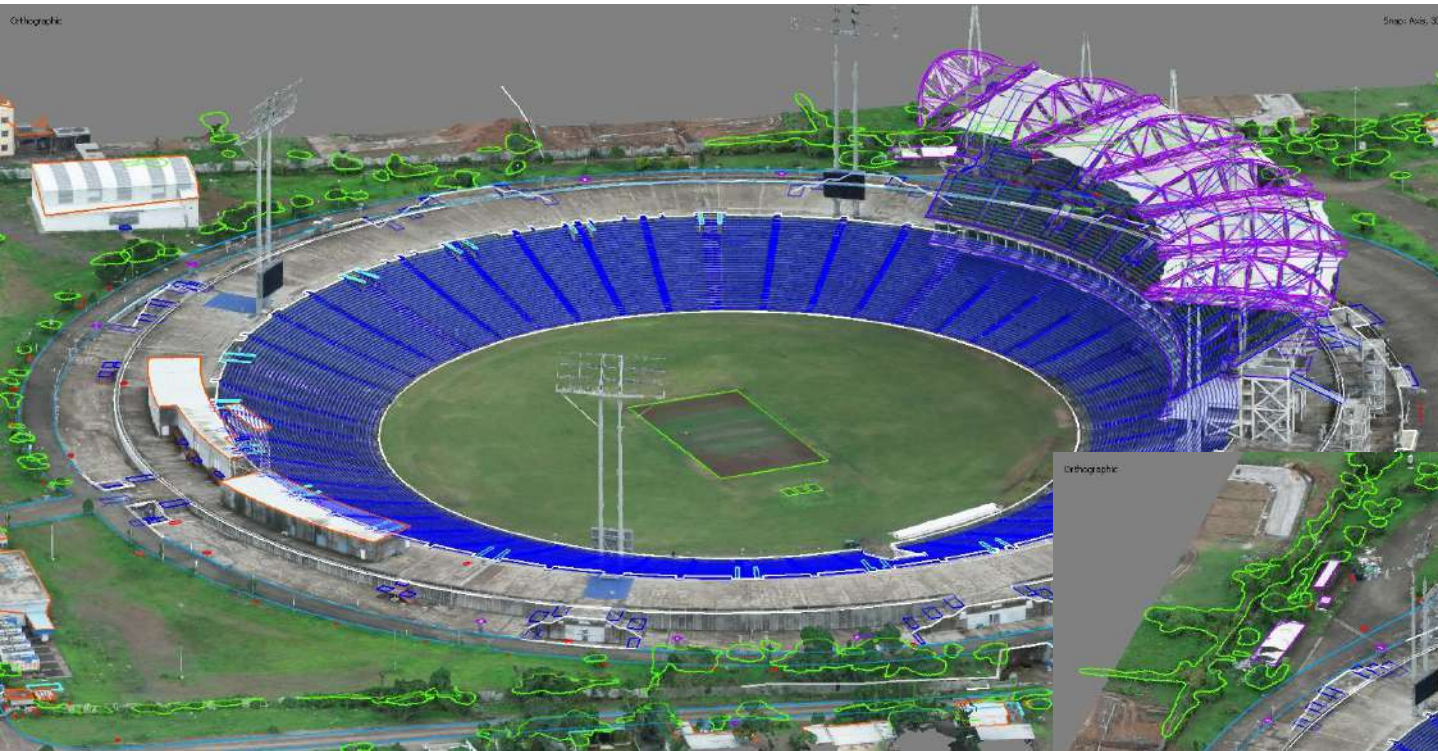


## National Highway 10000km



## 700 KM SAMRUDDHI MAHAMARG





## GAHUNJE STADIUM – AS BUILT MODEL



# MAPPING PORTFOLIO- COMPLETED OVER 5000 SURVEY PROJECT

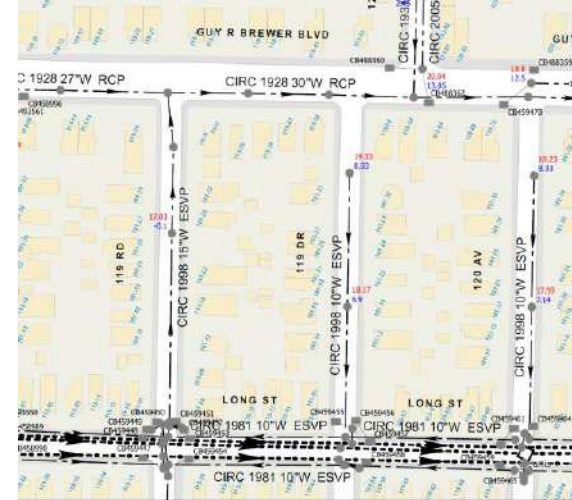


Master Planning Studio

## New York City Mapping



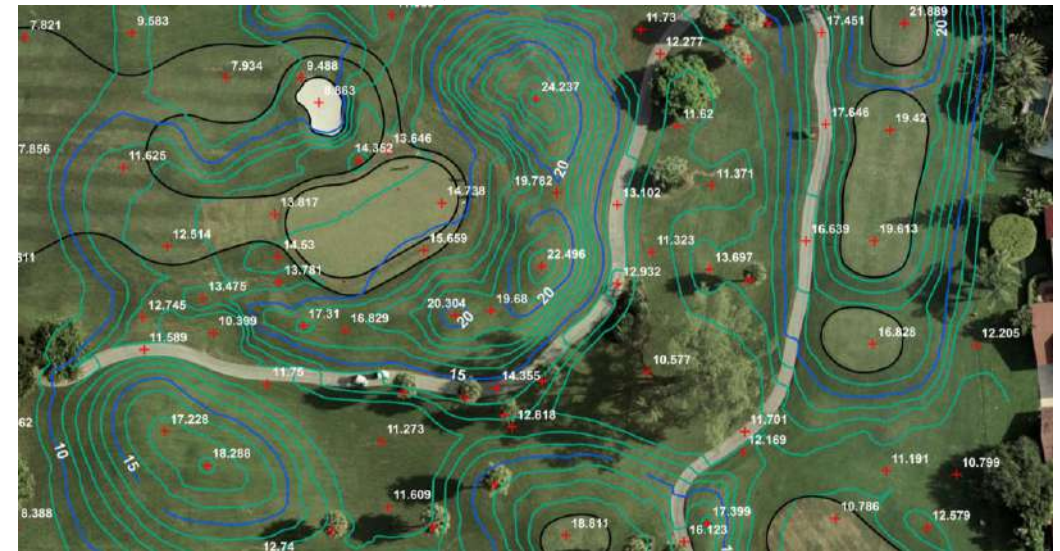
## New York Site Services



## Dulles Int. Airport



## USPAG Golf Course, Plam Coast Beach







**Chakan, Pune**  
70 Acres  
Plotted Development  
Club House

**SOW**  
Drone Survey  
Master Planning  
Landscape  
Architectural



# MASTER PLAN PORTFOLIO



## Portfolio

- **Nashik**
- 100 Acres
- Farm House Plots
- Villa Plots
  
- **SOW**
- Drone Survey
- Master Planning
- Landscape
- Site Services
- Architectural





## Portfolio

- **Nashik**
- 20 Acres
- 224 Keys Resort + Hotel
  
- **SOW**
- Drone Survey
- Master Planning
- Landscape
- Site Services
- Architectural



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Auspicious • Beautiful



## Portfolio

- **Karjat, Raigad**
- 195 Acres
- Plotted Development
  
- **SOW**
- Drone Survey
- Master Planning
- Site Services
- Architectural



Master Planning Studio



# Portfolio

- **Awasare, Raigad**
- 120 Acres
- Plotted Development
  
- **SOW**
- Drone Survey
- Master Planning
- Site Services



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## Portfolio

- **Dapoli**
- 78Acres
- Villa Plots
- Clubhouse
- Tree Houses
  
- **SOW**
- Drone Survey
- Master Planning
- Landscape
- Site Services
- Architectural





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## Portfolio

- **Bhugaon, Pune**
- ITP 150 Acres
- Villa Plots
- Highrise
- IT Hub
- School
  
- **SOW**
- Drone Survey
- Master Planning
- Site Services
- Landscape
- Architectural

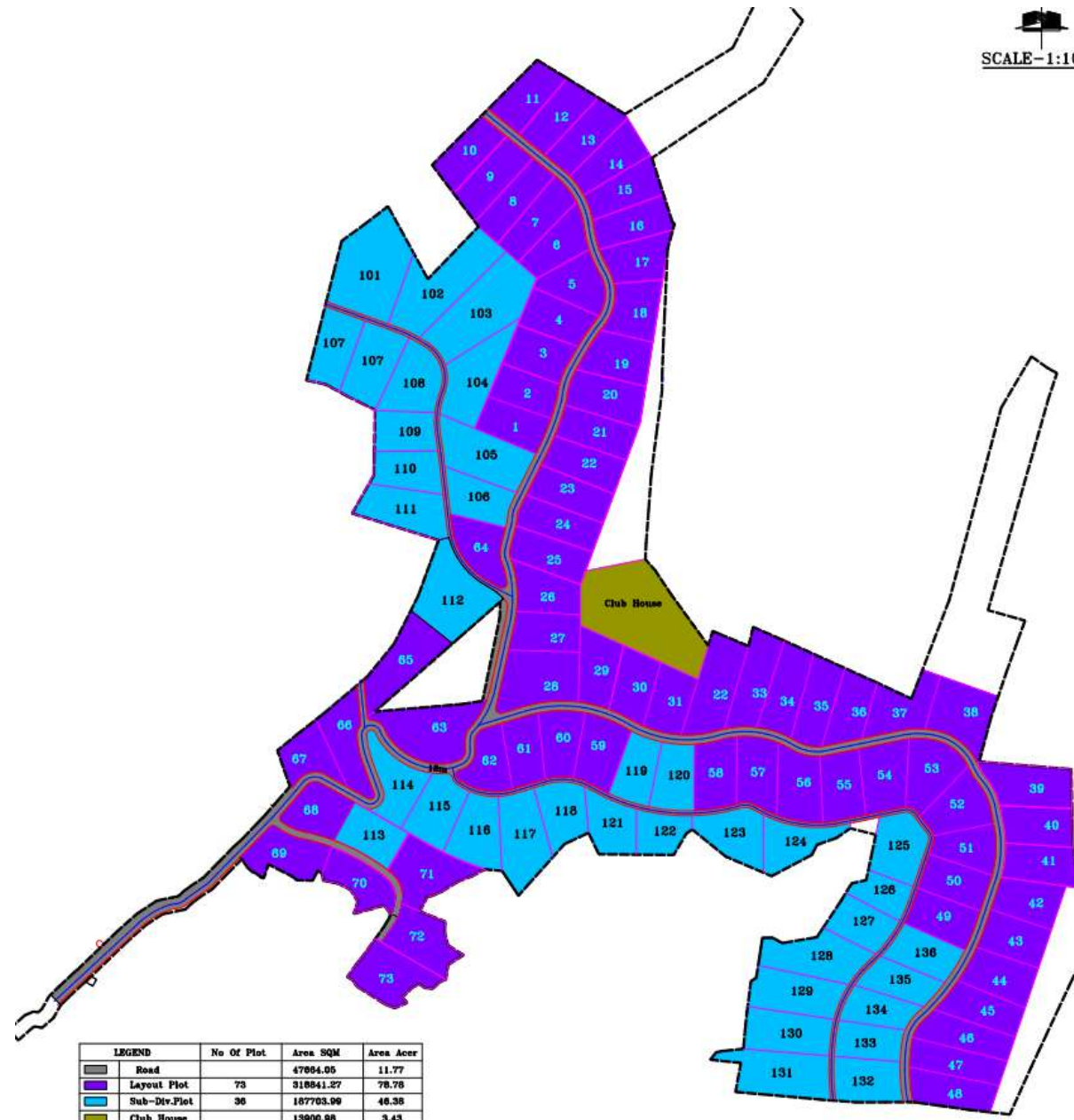


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# Portfolio

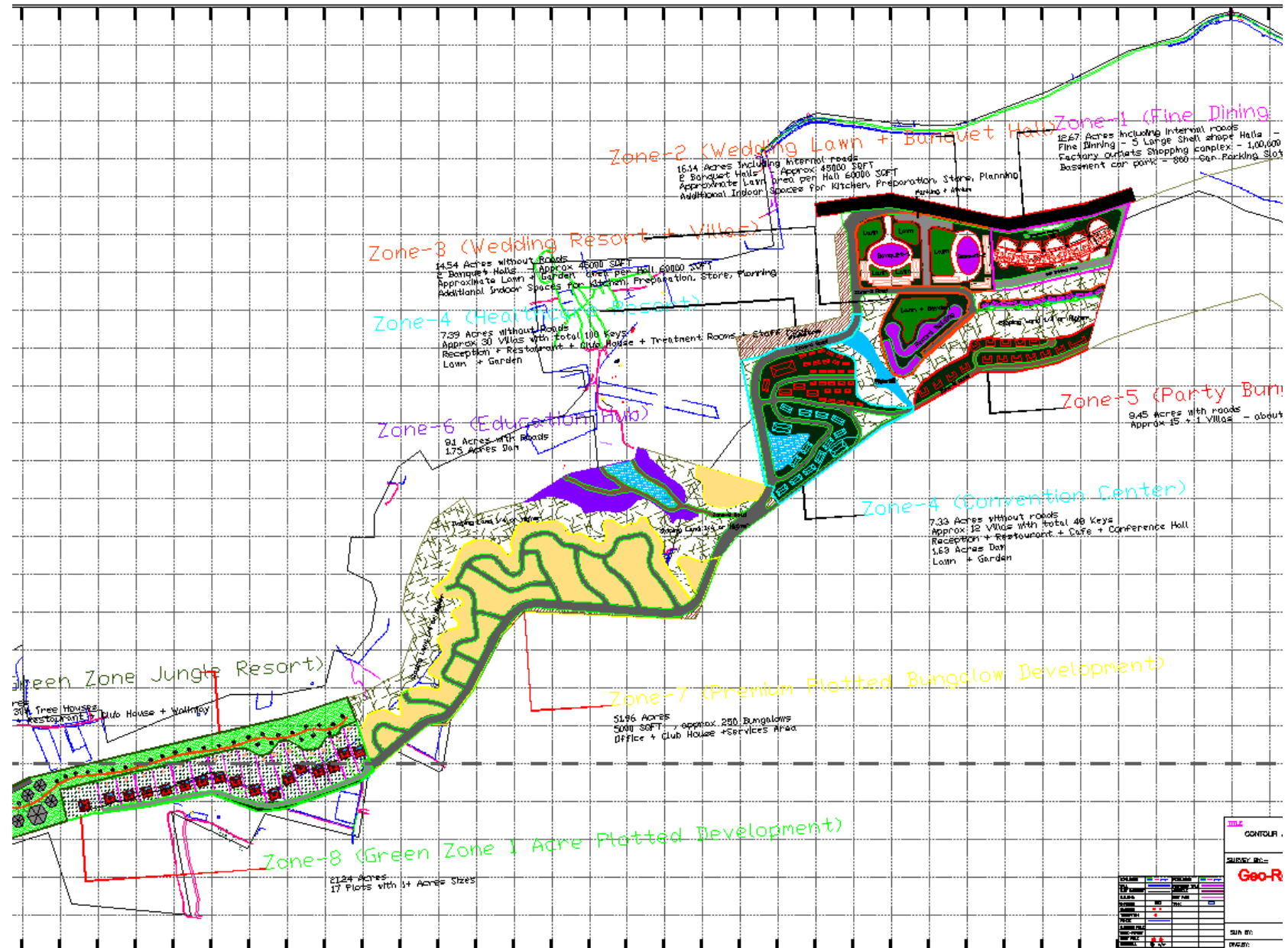
- **Mulshi, Pune**
- 150 Acres
- Villa Plots
  
- **SOW**
- Drone Survey
- Master Planning
- Site Services
- Landscape
- Architectural

  
SCALE-1:1000



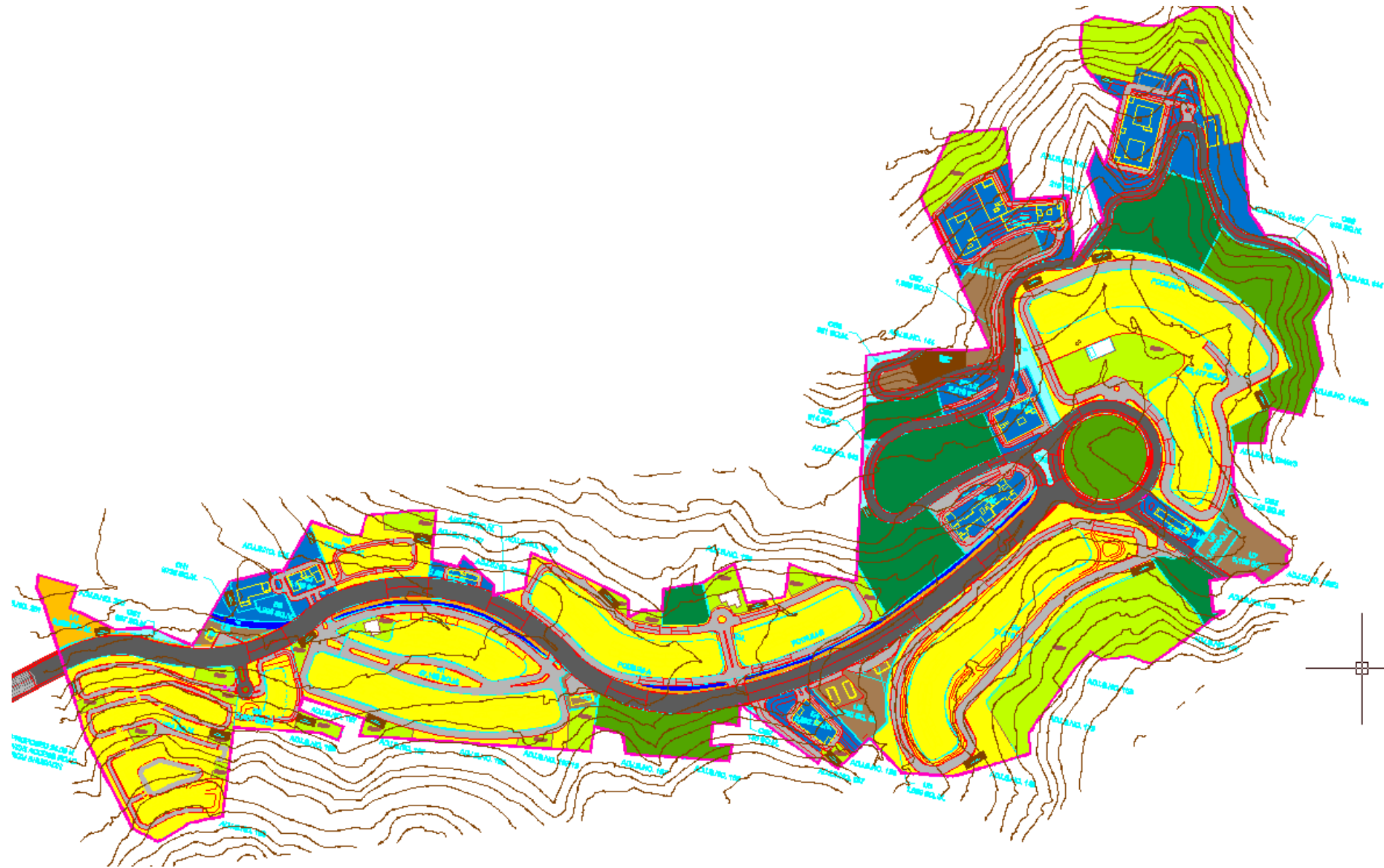
# Portfolio

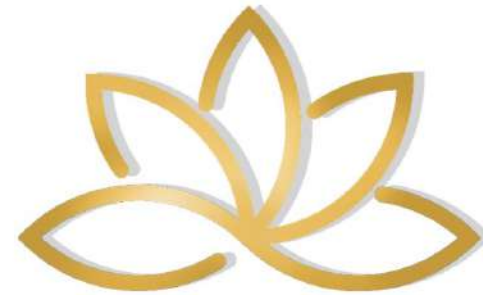
- Nashik
- 350 Acres
- Commercial
  - Wedding
  - Wellness
  - Lux villas
  - Villa Plots
    - Resort
- SOW
- Drone Survey
  - Master Planning
- Site Services
  - Landscape
  - Architectural



## Portfolio

- **Bhugaon, Pune**
- ITP 120 Acres
- Villa Plots
- Highrise
- IT Hub
- School
  
- **SOW**
- Drone Survey
- Master Planning
- Risk Analysis





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<https://www.masterplanning.in>