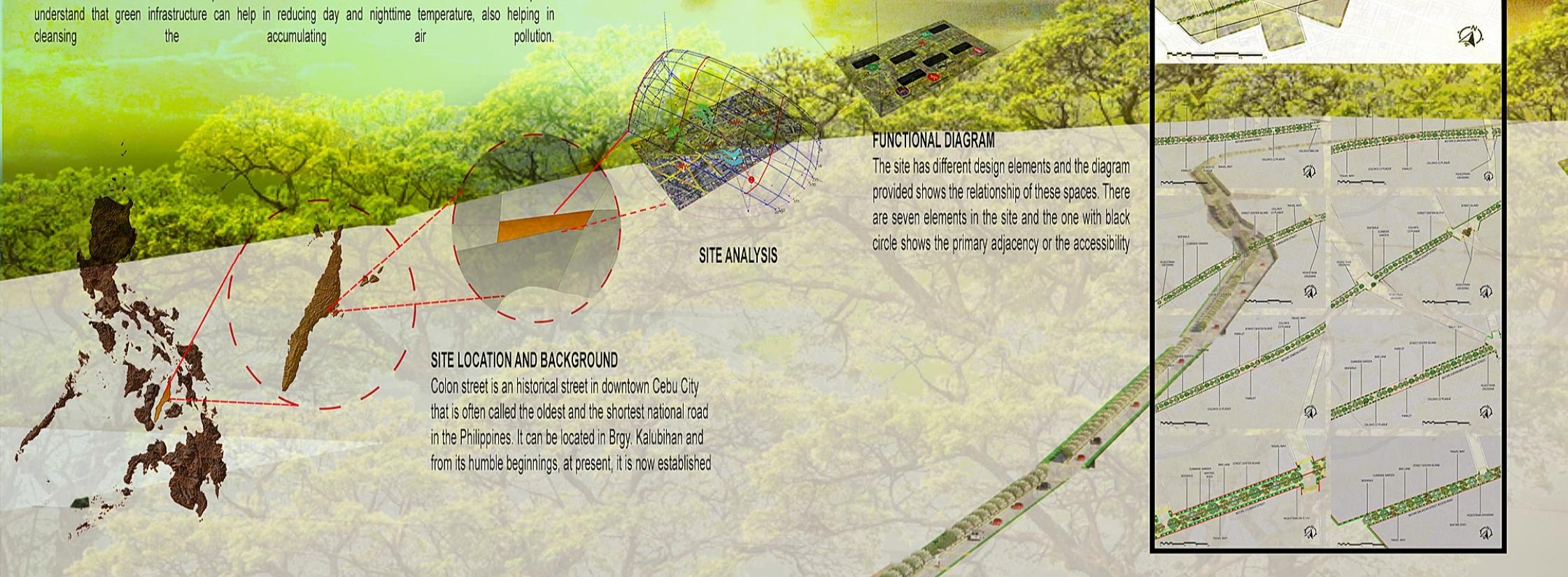


REGENERATING THE HISTORIC CEBUANO'S STREET: COUNTERING URBAN HEAT ISLAND (UHI) EFFECT IN COLON STREET, CEBU CITY THROUGH GREEN INFRASTRUCTURE APPROACH

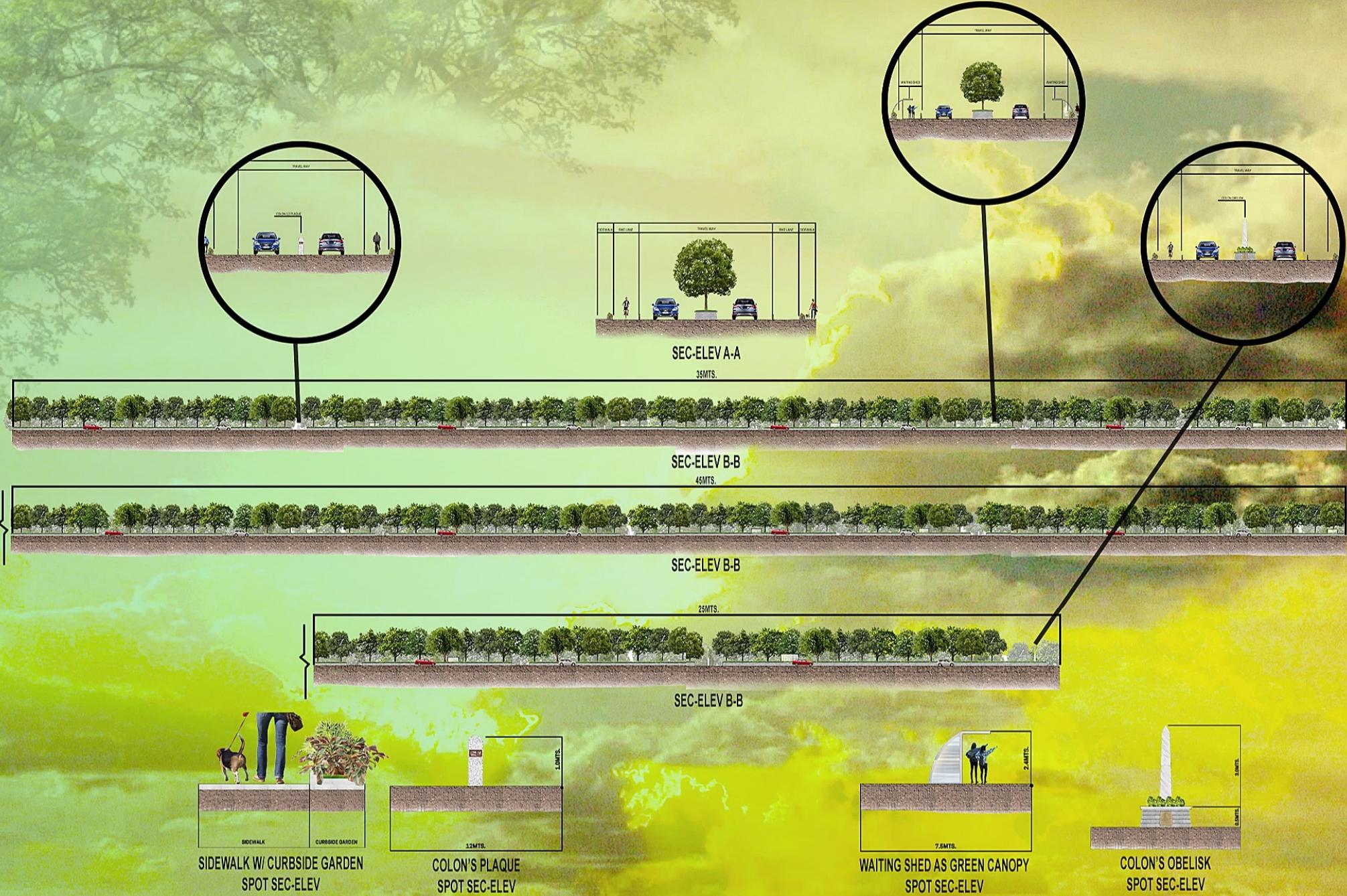


ABSTRACT

An urban heat island (UHI) is a human-caused urban or metropolitan area that is significantly warmer than its surrounding rural area. There are numerous causes for this phenomenon. For example, when houses, shops, and industrial buildings are built close together, they can contribute to the urban heat island effect due to building materials that are good at insulating or holding in heat, making the areas around the buildings warmer. Waste heat contributes to UHI as well, such as cars and factories that are constantly consuming energy daily. Furthermore, if a city has a dense population, their activities contribute significantly to a lot of heat. This study focuses on "Regenerating the Historic Cebuano's Street: Countering Urban Heat Island (UHI) Effect in Colon Street, Cebu City through Green Infrastructure Approach". Here we show the assumption that this greening of city streetscapes, specifically through the integration of green infrastructure design in Colon Street, must necessarily lead to positive environmental effects. With the landscape design intervention such as curbside gardens, green walls, green canopy, reflective pavement, and urban tree species along Colon Street it will further help on the urban heat island effect that is experienced in the street. Through this type of solution, the health and well-being of the Cebuano will be taken care of and significantly it will counter the UHI effect that is present in Colon Street. Because of the research outcome it helps to understand that green infrastructure can help in reducing day and nighttime temperature, also helping in cleansing the accumulating air pollution.



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