

APPENDIX R
ARCHITECTURAL DESIGN STATEMENT

DESIGN STATEMENT

PAEWIRA RECYCLE PLANT

PAEWIRA - 401 RACECOURSE ROAD, TE AWAMUTU

ARCHITECTURAL DESIGN STATEMENT

PAEWIRA

The design philosophy for the proposed waste to energy plant is based on the natural topography of the site and respecting its environment by a coherent approach to a collection of building forms and a robust selection of materiality. Base buildings are essentially industrial buildings with plan dimensions & heights to accommodate all plant such as furnaces, boiler systems, shredders, conveyors and other plant equipment. Visitor centre is designed with flexible spaces comprises of a café, museum /gallery & staff facilities such as office rooms & multipurpose rooms which can be turned in to seminar rooms or meeting rooms as required. Viewing bridge along the recycling plant runs full perimeter at high level to give visitors a visual experience into the process of how the waste turns in to energy through the combustion process. Series of 400m²-500m² precast concrete bunkers scatters around the plant to store waste products for day-to-day removal. Southern and western elevations are exposed to prevailing southwestern winds. However the neighbouring Fonterra buildings & trees located at the south western part of the site providing some shelter to the site.

BUILT FORM AND CHARACTER + MATERIALITY

Architectural character and materiality of industrial buildings in the area is varied from the use of concrete, metal cladding to brick and fibre cement weatherboards for the residential dwellings. Proposed buildings are to be cladded with precast concrete panels with decorative patterns to maintain the integrity of the land & show respect to manawhenua, surroundings as well as the narrative of Paewira. Large glazed windows and glass curtain wall systems will be used to create a connectivity between the outdoor and indoor space for example the connectivity between the café space with outdoor pond and also at the plant viewing platform to the outside landscape to give a sense of space. Light weight metal roofing will be used in all buildings to allow for future proofing and ease plant access. Horizontal louvres are provided for the cafeteria and gallery space for sun protection and to avoid solar glare. 3.5m high Corten steel acoustic panels along site entry provides an acoustic screening for the neighbouring dwellings from day-to-day vehicle traffic. We have carefully detailed and created the built form to provide a generous outcome for the waste to energy plant with connection between public areas to outdoor landscape & its surroundings to create an environment that is safe and pleasurable to the public.

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