



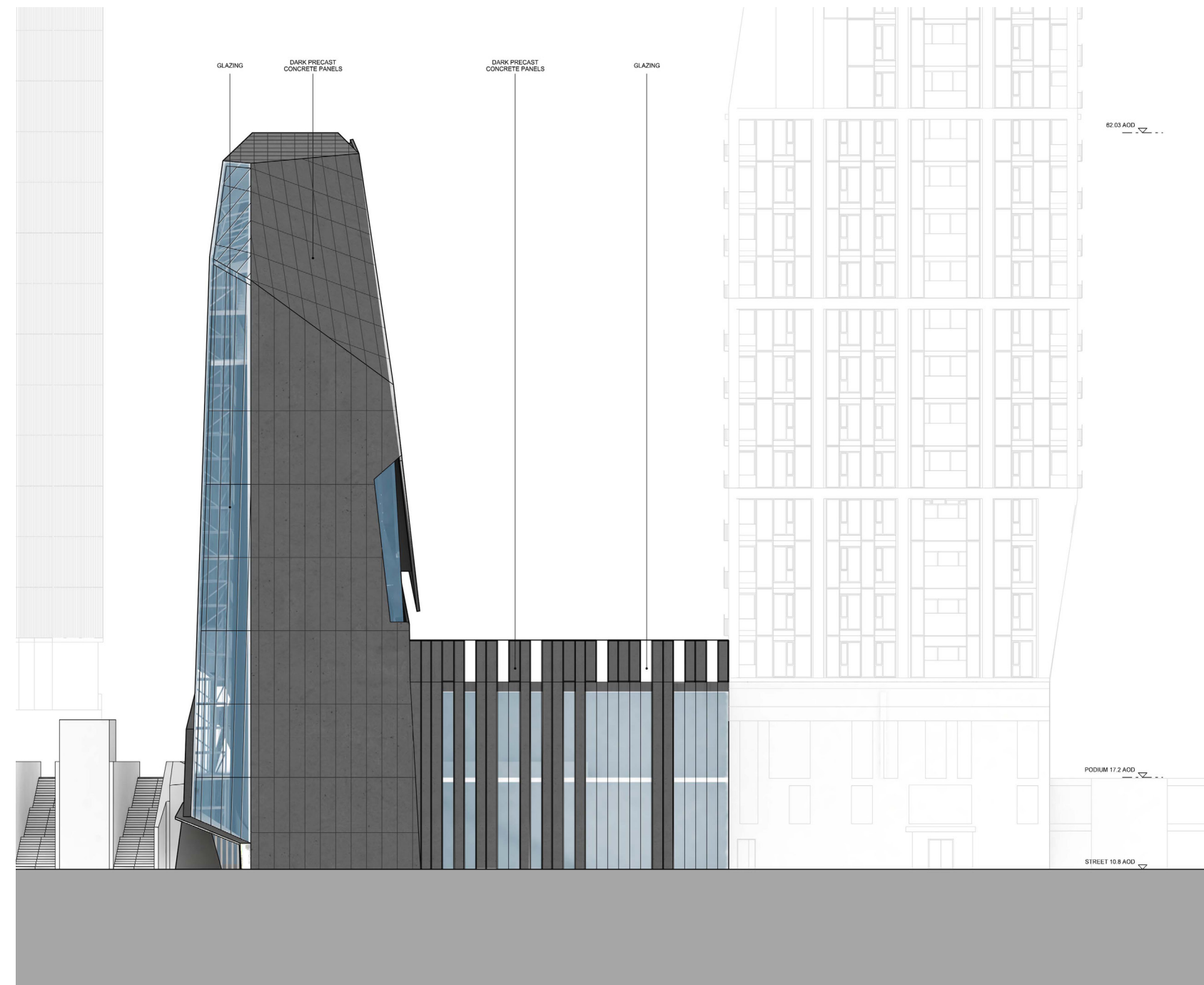
10.6 External Appearance

10.6.1 ELEVATIONAL TREATMENT AND MATERIALITY

South Elevation

The building's outer shell frame will be composed of three elements – dark precast concrete, light precast concrete and glazing. This shell is dedicated purely to 'play' as the backdrop to one of the principal activities of the extreme sport building allows users to climb up the elevations, while glass will reveal the activity within. The outermost layer of the shell comprises dark precast concrete panels, fitted onto the steel structural framework, to allow for outdoor climbing on the western, northern and eastern parts of the façade. With climbing holds bolted on, the precast concrete provides the required robustness to deal with the strain placed on it by the outdoor climbers. Sharing the narrative qualities of a rock formation, the creases, cuts and folds of the primary climbing surfaces provide a natural hierarchy to the climbing routes, varying in difficulty and scope.

Interlaced within the slits in the dark precast sit the glazed elements – revealing the energetic nature of the interior. Embedded in the southern elevation is a vast 48m, 325sqm double glazed façade, supported by structural mullions forming part of the structural framework. Flooding the interior with natural daylight, it allows the passer-by to witness the immense 35m indoor acrylic dive tank towering within the void of the building. On approach, this large transparent façade acts as the 'gorge' of the tower, engaging the streetscape with the activity of the interior, enhancing connectivity through pedestrian and visual links.

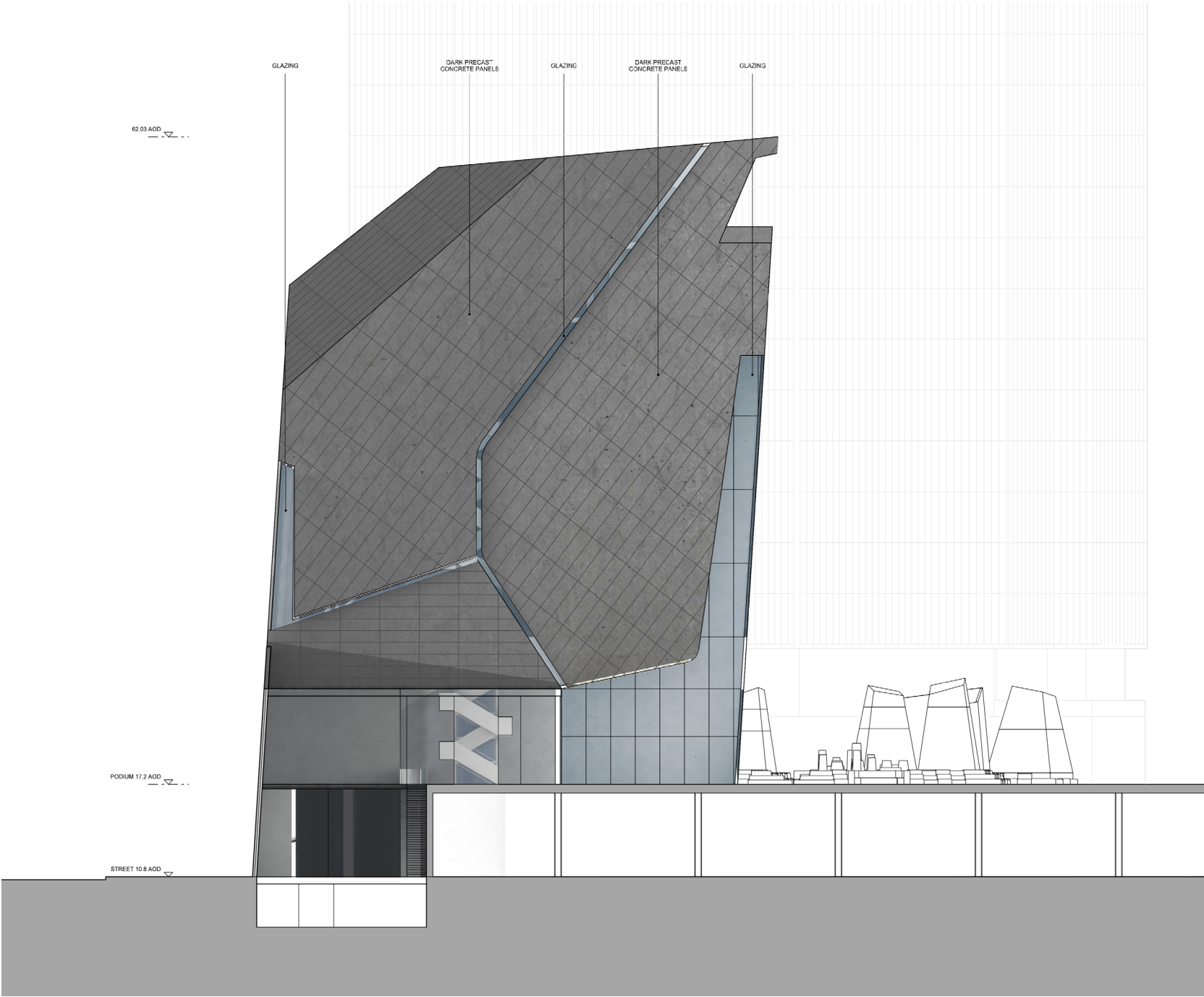


East Elevation

The eastern elevation consists of unfolding concrete planes, creating glimpses from the podium into the void, exposing the multi-level platforms and interstitial spaces, while allowing shards of light to penetrate the building. Inset deep in the envelope lies another large single glazed façade, supported off structural mullions on the east, provides views from the podium of the indoor climbing wall, exposing the movement of climbers inside.

To the northern elevation lies a long glazed façade, fitted to mullions attached to the enormous podium truss. The transparent nature opens the building to the podium, engaging with the public space with the activities within.

United, all these elements come together reverberating the building with light and shadow, weight and levity, density and lightness.



10.6.2 MATERIALITY

Composed entirely of three elements – dark precast concrete, light precast concrete and glazing -the materiality of the building serves as an extension of the hotel plinth, thereby forging the connective tissue between the shop, hotel and extreme sports. Competing layers disperse, fragment and integrate, as a narrative emerges between density and lightness, opening and enclosure.

Dark Precast concrete

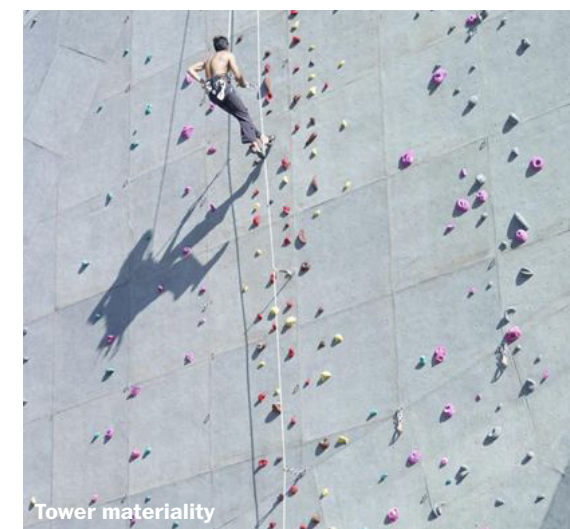
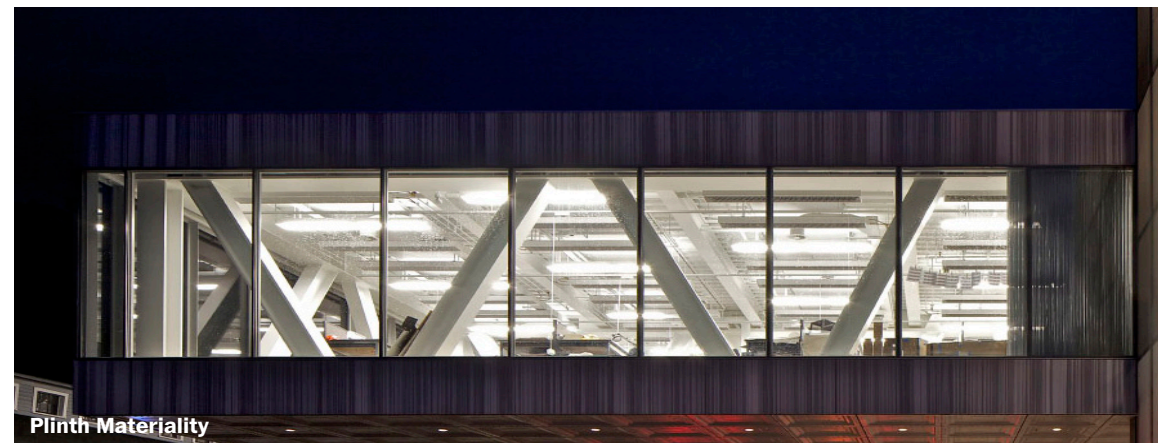
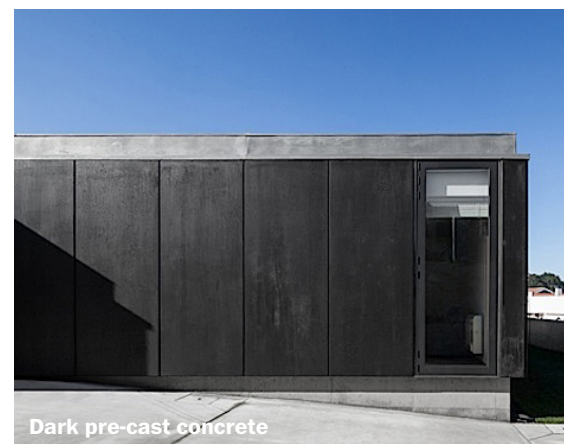
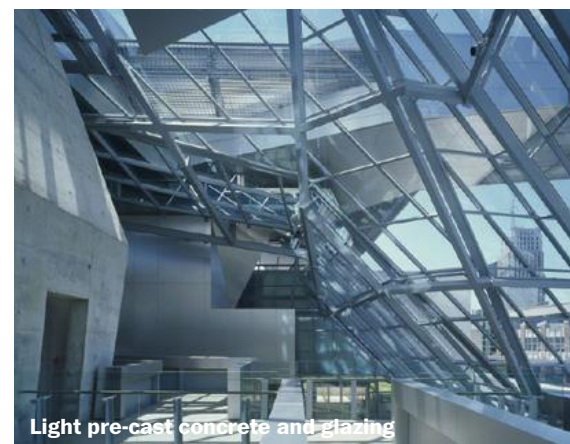
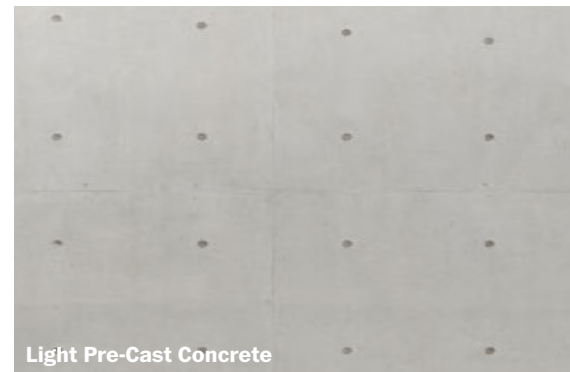
Dark precast concrete panels will act as the primary cladding material to the tower, its solidity and mass offering a suitable and practical outdoor climbing surface. It covers all elevations of the tower including the roof, to ensure the design had the appearance of one solid element that has been carved into to expose the canyons of glazing.

Light precast concrete

Incisions of light precast concrete have been chosen to compliment the dark panels of the tower and link to the architecture of the adjacent residential tower.

Glazing

The glazing exposes the activities within, like deep canyons in the precast masonry, and due to its surface area and position, it has to be supported off the primary structural network. The glazing system will utilise stainless steel fittings, housed in countersunk holes, that fix the glass façade back to the structure – eliminating the need for more conventional framed systems.



10.7 Mechanical, Electrical and Plumbing

VENTILATION

The extreme sports building will be served by a dedicated ventilation system, located within the building. Separate ventilation systems will be provided to serve the dive pool and associated areas including the changing rooms, the two café areas and the climbing wall zone. Toilet extract systems will provide 10 air changes an hour and will discharge to outside. All ventilation units will be provided with energy recovery facilities, in order to minimise the building energy use.

HEATING / DOMESTIC HOT WATER

A centralised heating system will be located at basement level consisting of a gas fired boilers. This will provide space heating and domestic hot water to the extreme sports building. The boiler plant room will also incorporate two heat exchangers to ensure the building is ready to connect to the future Haringey district heating scheme.

DOMESTIC COLD WATER

A potable water storage tank will be located at basement level, with booster pumps to serve the café areas, and the pool water treatment plant. The pool water treatment room will be located at basement level, where the chemical storage will also be located. Low flow showers, water fittings and sanitary ware will be used throughout the building.

FIRE SAFETY SYSTEMS

Smoke ventilation will be incorporated into the upper level of the building, extracting smoke from above the climbing wall and dive tank. The building will be provided with a fully compliant fire alarm system, and a fire fighting lift will be provided if required, fed from alternate electrical supplies.

ELECTRICAL

The extreme sports building will be served from an adjacent HV substation via a suitably located LV meter. The extreme sports building will be provided with high efficiency LED lighting throughout.

