Solar tubes to light dark interior spaces

Meshed-in garden space within exhibit to introduce live plants, see sketch 2 and 3

Add different substrates and grade to allow high points and varied topography, see sketch 2

Vertical Garden in protected corridor

Live unprotected planter with replaceable plants, see sketch 2

Ape Dayroom
Improvements - Lower Floor

GORILLA ROOM
Forest Clearing Habitat
Open space with topography

Live unprotected planter with replaceable plants, see sketch 2 and 3

Sketch 2
Solar tubes to light dark interior space

Sketch 3
Vertical Garden in protected corridor

GORILLA ROOM
Forest Clearing Habitat
Open space with topography

Live unprotected planter with replaceable plants, see sketch 2 and 3

CHIMPANZEE ROOM
Forest Habitat
Forest Canopy, Vertical Space

Meshed-in garden space within exhibit to introduce live plants, see sketch 2 and 3

Sketch 2
Solar tubes to light dark interior space

Sketch 3
Vertical Garden in protected corridor
**Ape Dayroom Improvements - Main Floor**

- **Chimp Panzee Room**
  - Forest Habitat
  - Forest Canopy, Vertical Space
  - Meshed-in garden space within exhibit to introduce live plants

- **Gorilla Room**
  - Forest Clearing Habitat
  - Open space with topography, see sketch 2
  - Meshed-in garden space within exhibit to introduce live plants

- **Sketches**
  - Sketch 1
  - Sketch 2
  - Sketch 3

- Replace doors with removable glass panels
- Change one of the window panels for sliders, fix mesh on the interior, see sketch 2.
- Add filter to glass to reduce contrast by comparison between the glass into the dayroom and the glass to the outside.
- Add more windows along the exhibit side shape windows into ‘horizon’ lines, see sketch 3.
- Tilt visitor viewing glass to reduce reflection.
Maximize skylight area and utilize pop-up and three-dimensional styles. Open for ventilation.

Add skylight planters where plants can cascade into dayroom.

Meshed-in garden space within exhibit to introduce live plants.

Add rooftop planters to provide special place for apes and staff.

Allow apes to utilize roof space via skylights.

CHIMPANZEE ROOM
Forest Habitat
Forest Canopy, Vertical Space with plenty of vertical space and climbing equipment to explore.

GORILLA ROOM
Forest Clearing Habitat
Open space with topography

Ape Dayroom Improvements - Roof
Ape Dayroom Improvements

Sketch 1
Apply filter on the windows from viewing building to exterior exhibit – the eye of visitors will adjust to the relative darkness of views and will perceive them as normal / lighter.
The forest clearing habitat for the Gorilla room should feature open space with topography, tall planters in the background narrowing towards the roof, plenty of skylights, fixed as well as operable from the roof, with no access for the apes to the roof.

Current light levels are low, windows are facing norths

Proposed lighting
Open the roof with skylights. Light in the ancestral habitat of the resident apes comes from above. Place the skylights parallel to the visitors viewing.

Create topography in the room, alternatively as
- hard surface
- series of contour line 'planters' to be filled with various substrates
- hardened dirt landscape

Sketch 2 - The Gorilla Room

Change one of the window panels for sliders, fix mesh on the interior.

Live unprotected planter with replacible plants.

Meshed-in garden space within exhibit to introduce live plants

Natural and shotcrete rocks, deadfall and shotcrete tree stump --
Sketch 3 - The Chimp Room

Current light levels are low, despite the fact that windows are facing south.

Proposed lighting
- Open the roof with skylights.
- Light in the ancestral habitat of the resident apes comes from above. Place the skylights parallel to the visitors viewing.

Meshed-in garden space within exhibit to introduce live plants.

Exhibit furniture
- Should be a combination of natural and simple man-made elements. Natural and artificial rocks, dead fallen and live trees, broken branches, autumn leaves, and other seasonal natural material supplemented with climbing equipment such as platforms, ropes, and swings. Experiment with variety of substrates.

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