

There are many factors besides funding that will determine the how and when of project construction. It may be necessary to build certain areas before others, so that animals can move into them before demolition of their current enclosures, so that the vegetation can quickly begin maturing, or so that other sections above, beneath, or adjacent can be built. For example, the underground level of Woodland Park Zoo's planned aviary would house the holding areas for primates. Either, the primate exhibits, as well as the foundation for the aviary had to be built first, with the intention of adding the aviary on top later, or the aviary itself had to be built before the outdoor primate enclosures.

Another consideration is how visitors, animals, and staff can continue to use the site during construction. It is important that a continuous portion of the zoo remains open, so that visitors can safely and pleasantly enjoy some exhibits, while others are under construction or renovation. Animal holding must be coordinated, so that animals can shift to temporary or new enclosures when needed. Access for maintenance and emergency vehicles must always be available.

A final consideration of phasing will be scheduling openings of new exhibits and facilities. New exhibits are often major crowd-drawers and bring extra visitors, including a high number of return visitors, to the zoo. If scheduled at the beginning of the peak visitation season, the number of visitors can be even further increased. If the zoo announces new openings periodically, every year or two years, visitors have an increased incentive to return to the zoo again and again.

Our readers may like to know about Gibbon Pocket Books. Their logo, depicted above, includes a Hoolock Gibbon and was drawn and designed by Anwarddun Choudhery, a well-known field researcher in NE India. Anwarddun is a bit of an anomaly as he is a senior bureaucrat with the government as well as researcher and writer. The history of Gibbon Pocket Guides dates back to 1993 when the publishing company was initiated by Anwarddun with support from his family and friends. Their motto was to publish some good quality books on wildlife. This was a necessity then as most of the Indian publishers then brought out books of poor quality paper and binding. Foreign publishers, however, edited the books in their own way, making significant changes in names which were not popular in India. Gibbon Books does not have its own publication fund and is usually supported by reputed organisations (The birds of Arunachal and Nagaland were supported by Oriental Bird club, UK), Mammals of Assam by ASTEC and so on. Listed below are books published by Gibbon Books.

Books published by Gibbon Books (many in collaboration)

- 1993** : 1. *A Naturalist in Karbi Anglong*. Gibbon Books, Guwahati. 88pp+maps, illustrations.
1994 : 2. *Checklist of the Mammals of Assam*. Gibbon Books, Guwahati. 59pp+maps, illustrations.

Presentation

The results of the previous steps toward a masterplan will be compiled and presented in a format accessible to many audiences. When recording a site analysis, when communicating your ideas to other staff members or designers, and when trying to read and understand another person's ideas, a simple vocabulary of symbols is helpful. The idea of a master plan is to communicate *spaces* and *connections*. The large scale of a master plan means that graphics tend to be comprised of many "bubbles" and arrows. Different colors can represent phases and different patterns can represent different uses.

The final publication of a master plan should be simple and understandable enough so that future staff members and designers can follow it. It should make strong arguments for the decisions outlined and express the plan in a manner specific enough to keep the visions. While the situation of the zoo is likely to change in many aspects over the years, a well-thought-out, flexible master plan, will enable the zoo to develop continuously towards consistent goals.

Sources:

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 Oklahoma Zoo Master Plan, prepared by CLRR, Inc. Polakowski, Kenneth. *Zoo Design: The Reality of Wild Illusions*. Univ. of Michigan, Ann Arbor, 1987.
 Woodland Park Zoo Long Range Plan, prepared by Jones and Jones, 1976.
 Zoo Hannover. "Exhibition Hannover Zoo: On the Way to the Zoo of the Future". Brochure, 1996.



1997 : 3. *Checklist of the Mammals of Assam*. Revised 2nd edn. Gibbon Books and Assam Science Technology & Environment Council, Guwahati. 103pp, maps, illustrations.

2000 : 4. *The Birds of Assam*. Gibbon Books & WWF-India NE Reg. Office, Guwahati. 240pp, plates.

2003 : 5. *A pocketguide to the birds of Nagaland*. Gibbon Books & The Rhino Foundation, Guwahati [part funded by OBC, UK under Wildwings Conservation Awareness Award].

2006 : 6. *A pocketguide to the birds of Arunachal Pradesh*. Gibbon Books & The Rhino Foundation, Guwahati. [part funded by OBC, UK].

7. *Birds of Manas national park*. Gibbon Books & The Rhino Foundation, Guwahati. [part funded by Bodoland Territorial Council].

2007 (in press): 8. *Birds of Dibru-Saikhowa national park*. Gibbon Books & The Rhino Foundation, Guwahati.

9. *A pocket guide to the birds of Mizoram*. Gibbon Books & Rhino Foundation, Guwahati, part funded by OBC, UK.

Anwarddun has also published a number of books with other publishers. His email is <badru1@sify.com>