
CHAPTER NINE EVALUATION, IMPLEMENTATION, AND MONITORING

“There is a desperate need in Egypt for the regular monitoring of archaeological sites...these sites have survived in various degrees of preservation for millennia...each one of them today is threatened by vandalism, theft, encroaching development, deteriorating environmental conditions, or neglect. If these sites are to be protected it is essential that they be recorded and inspected in a regular and systematic fashion.”

Weeks, 1996

Conditions in KV need regular monitoring and review if this masterplan is to be successful and the future of the valley secured. Therefore, a system of regularly monitoring factors affecting the integrity of KV needs to be developed. Such factors include general environmental conditions both externally and within the tombs, groundwater conditions, geological stability, and the effects of visitation.

In the preceding chapters we have outlined some of the problems facing KV and we have proposed various solutions or interventions. These include:

- Increasing numbers of tourists, resulting in more vehicular traffic and crowding in the valley and in individual tombs, and the need for traffic controls and the monitoring of carrying capacity in tombs
- Greater variation in temperature and humidity in tombs, the result of tourist numbers, lighting systems, and the environment, require new systems of environmental controls and lighting in the tombs.
- The need for regular monitoring of environmental and structural conditions in tombs and a program for their conservation.
- The need for a program of regular cleaning of general KV and KV tomb interiors
- Controls to ensure the safety and security of the monuments and visitors
- Hydrological surveys and engineering works to prevent damage from flash flooding.
- Facilities, including a Visitors Center, signage, and brochures, to enhance visitors' experience and to ensure that tourists treat KV properly and with respect.
- Regular programs of training for all involved KV personnel under professional supervision and with regular inspection and monitoring.

Such programs require that all KV stakeholders be involved and work cooperatively to achieve these goals.

Of all the proposals outlined in this masterplan, none is more important—or more costly and difficult to design—than ticketing procedures in the Valley of the Kings. These procedures will help control carrying capacity limits, affect tomb environment, and influence the quality of visitor experience. We recommend that the SCA commit the necessary money to hire an outside ticketing consultation firm to develop these procedures, and devote at least one year to their monitoring and adjustment. Such studies will cost about \$500,000, but they ultimately will prove a sound investment.

At the same time, outside consultants should determine the best means of temperature and humidity controls in at least one tomb, and new systems of lighting should be tried out. We have recommended LED lighting because of its low heat output, low electrostatic charge, ease of installation, long life, and the quality of its illumination. Here, too, we estimate about one year of testing at a cost of about \$500,000 will be required.

All three of these projects—ticketing, lighting, and environmental controls—must be conducted simultaneously, because each of them so heavily influences the others: for example tourist numbers and the kind of lighting used will affect temperature and humidity in the tombs.

9.1 KV Masterplan Work Schedule

For planning purposes, a single schedule of work to be done should be prepared for the entire area from Carter House into the Valley of the Kings. For construction purposes, the work can be divided into two geographical areas: work done in the Valley of the Kings and work done outside it. For example, we must know at the beginning the precise needs of all electrical installations, from a/c to footpath lights, but we can install lights in the Visitors Center area before we turn to individual KV tombs. The budget for TMP proposals contained in this Masterplan are to be found in Appendix V.

1. Hydrological studies and recommendations for flood protection, updating of the plans made before recent KV excavations
2. Decide on design and number of tramline vehicles, contract to build
3. Determine approximate location of toilet, garage, cafeteria, first aid station; decide if Davis House is to be connected to water, septic, electrical systems; decide which utilities are required in each area; determine size and location of parking, roads, pathways
4. Septic line
 - a) Specifications of Visitors Center septic system reviewed
 - b) Plans drawn up for additional toilet facility at entrance to KV

- c) Need for additional toilets in garage determined
 - d) Location of septic holding tank determined
 - e) Size of tank and of pipes determined
 - f) Determine type of pipe and connections to be used
 - g) Route of septic pipe to be surveyed, asphalt removed where necessary
 - h) Channel dug from toilet and Visitors Center, garage, to holding tank
 - i) Construct holding tank
 - j) Pipe installed and connections checked
 - k) Septic line joined to Visitors Center, toilet, garage, cafeteria
 - l) Determine schedule of pump-outs, number of pump lorries required
5. Toilet facility at entrance to KV
- a) Precise location of facility determined
 - b) Geological and archaeological tests conducted
 - c) Size of facility determined
 - d) Plans drawn, specifications written
 - e) Contracts let
 - f) Work performed
 - g) Facility connected to Visitors Center septic system
 - h) Water supply installed
 - i) Electrical system connected
6. Water supply
- a) Specifications of Visitors Center, cafeteria, garage, KV toilet, water supply
 - b) Source of water determined
 - c) Route of pipe surveyed
 - d) Size of pipe determined
 - e) If holding tanks are required, select location, size, and design
 - f) Determine need, size, and location of intermediate pumping stations
 - g) Channel to be dug and pipe installed
 - h) Water line made ready to be joined to Visitors Center, cafeteria, toilet, first aid station, garage
 - i) Connections made, water supply made functioning

7. Electrical System

- a) Determine capacity of system needed: KV tomb lighting and a/c; KV exterior lighting (Italian plan plus footpaths); Visitors Center lighting, a/c, computers; offices, sales shops, parking areas, garage, first aid center
- b) Can solar panels be used in any part of this system?
- c) Determine source of power
- d) Determine size of cables, transformers, other equipment
- e) Survey route of wiring, decide which parts are to be strung above ground, which are to be buried cables (nothing from new parking area to KV or inside KV should be above ground)
- f) Determine locations of transformers, other equipment
- g) Channels to be dug, cable to be strung or laid
- h) Locations of road and path lights to be marked and connections prepared; in
- i) KV, appropriate connections and facilities for a/c, exterior lighting, and tomb lighting to be planned
- j) Note electrical needs of all structures
- k) Connections made

8. Design a system of monitoring and controlling foot traffic in KV and limiting the number of visitors allowed in KV tombs. A system of lights should inform guides and inspectors of tomb congestion or serious changes in temperature and humidity.

9. Environmental Controls in Tombs

- a) Testing and demonstration model
- b) Temperature control
- c) Humidity control
- d) Monitoring conditions

10. Lighting in Tombs

- a) Testing and demonstration model
- b) Contract and implementation

11. Exterior Lights in KV

- a) Testing and design
- b) On hillsides
- c) On footpaths

- d) In parking and facilities areas

12. Roadway and pathways

- a) Work cannot be undertaken until all channels are dug, water, sewage, and electrical cables and a/c facilities have been installed, and channels filled in.
- b) Remove asphalt from entrance to KV to Visitors Center in a series of 2-3 strips (so as not to interfere with continuing tourist traffic) and lay down Soiltac or equivalent
- c) Parking lot at Visitors Center to be improved, lines painted, directional signs installed
- d) New parking area downhill from Visitors Center to be planned, perhaps in 3-4 expansion stages, with only the first one or two to be built now
- e) Location of garage for trams to be determined and plans drawn (with toilet, office?)
- f) All cables, lighting, a/c equipment to be installed below surface of roads, footpaths
- g) Leveling of footpaths in KV to be determined and mapped according to hydrological studies in order to ensure proper flood protection
- h) Footpaths treated with Soiltac or equivalent

13. Implementation of rubbish collection, cleanliness programs

14. Study alternative ticketing policies and procedures

15. Implement proposals on a trial basis

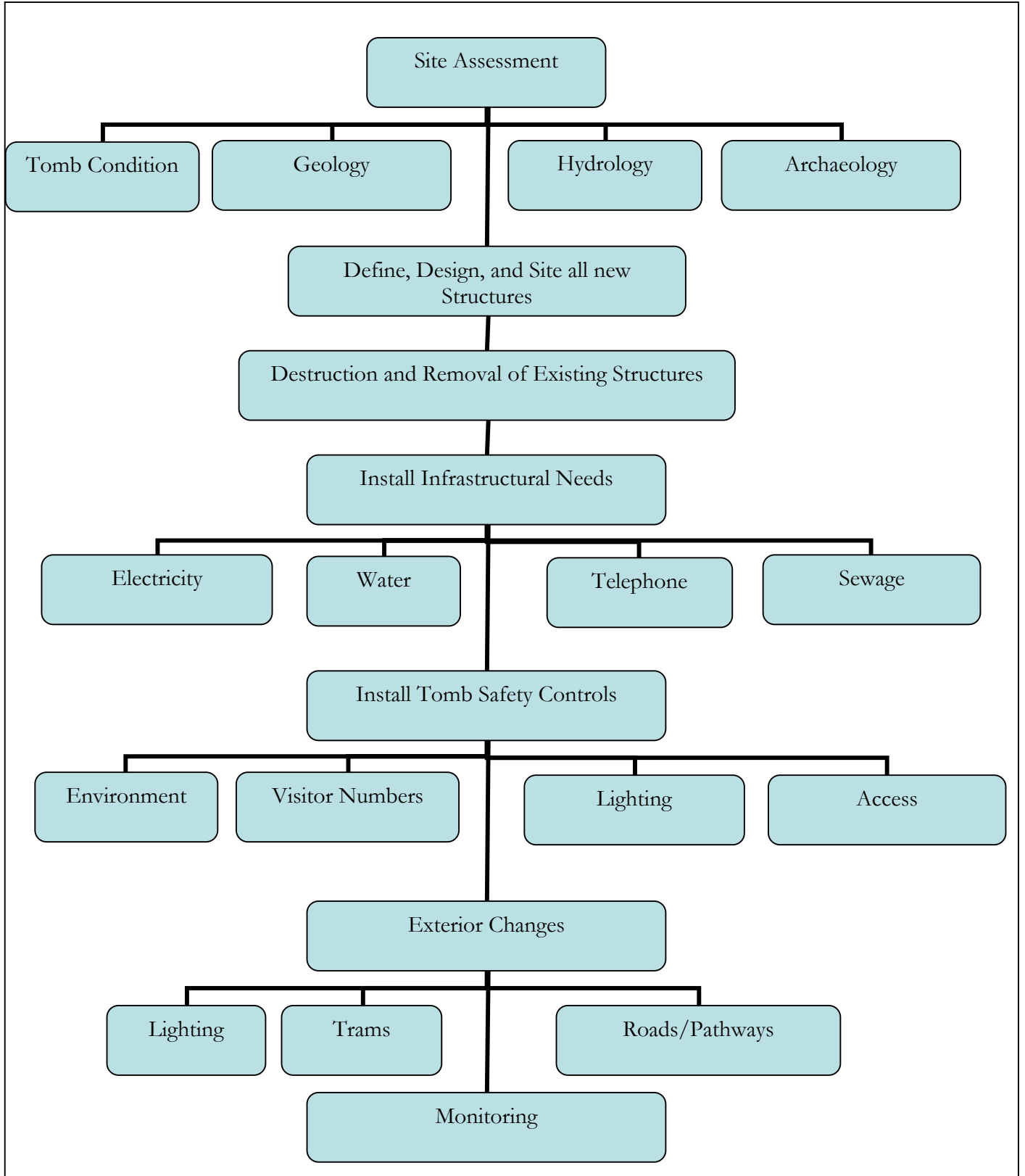


Figure 107: KV Masterplan Critical Pathway

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