



Conservation and Restoration of Angkor Wat and Ta Prohm Temple, Siem Reap, Cambodia



India-Cambodia Co-operation Project Conservation of Ta Prohm Temple Complex

Devender S. Sood

Archaeological Survey of India



Outline of the presentation

Introduction – ASI's foray in Cambodia

Conservation works – Angkor Wat (1986 – 93)

Ongoing Conservation Works – Ta Prohm (2004 onwards)



Conservation and Restoration of Angkor Wat and Ta Prohm Temple, Siem Reap, Cambodia



Source: Ta Prohm Temple – A Conservation Strategy, ASI, 2006

Fact File:

Cambodia is primarily a large depressed basin and a major part of the country is covered with tropical evergreen forest;

Hot and Humid Climate;

Bordered by Thailand, Vietnam and Laos;

Capital: Phnom Penh;

Tourism the main contributor to the Cambodian Economy;

Angkor region in proximity to the great Lake Tonle Sap, fed by the waters of Mekong river



India – Cambodia Cooperation

India – Cambodia (*Kambujadesha*) cooperation goes back to approx 5th – 6th Century CE;

Trade and Commerce established cultural relations between the two regions;

Khmer emperors (9th – 15th Cen CE) adopted Indian religions, Hinduism and Buddhism, and patronised art and architecture reflecting tenets of Indian iconography and architecture; Many temple complexes within the Angkor region;

Government of India's cooperation with the R.G of Cambodia continues from mid-1980s by providing technical assistance for the conservation of Angkor Wat (1986 – 93) and Ta Prohm (2004 – till date)

Conservation and Restoration of Angkor Wat and Ta Prohm Temple, Siem Reap, Cambodia





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Conservation and Restoration of Ta Prohm
Temple, Siem Reap, Cambodia



Conservation and Restoration of Ta Prohm Temple, Siem Reap, Cambodia





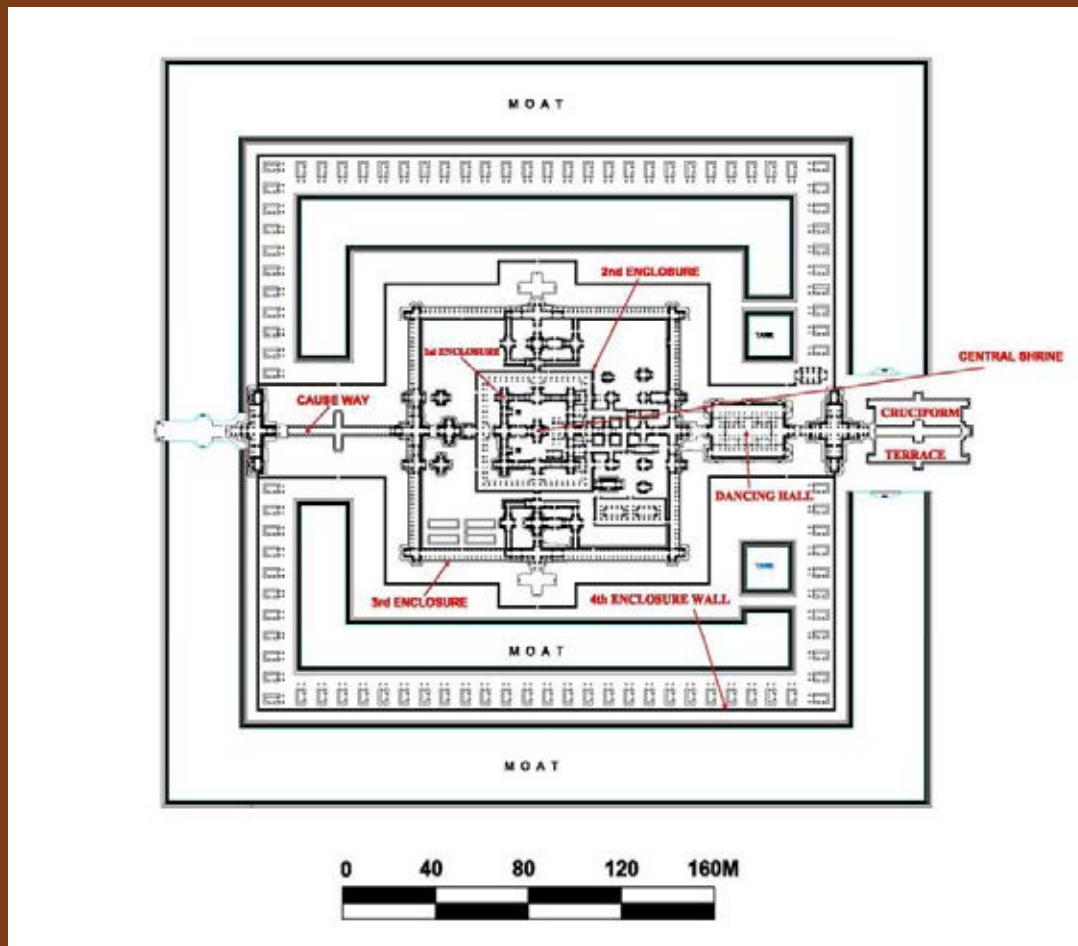
Background

Project launched in **February 2004** by Secretary Culture,
India;

Funded by the Ministry of External Affairs, Government of
India;

Currently team from **Archaeological Survey of India (ASI)**
is working onsite.

Conservation and Restoration of Ta Prohm Temple, Siem Reap, Cambodia



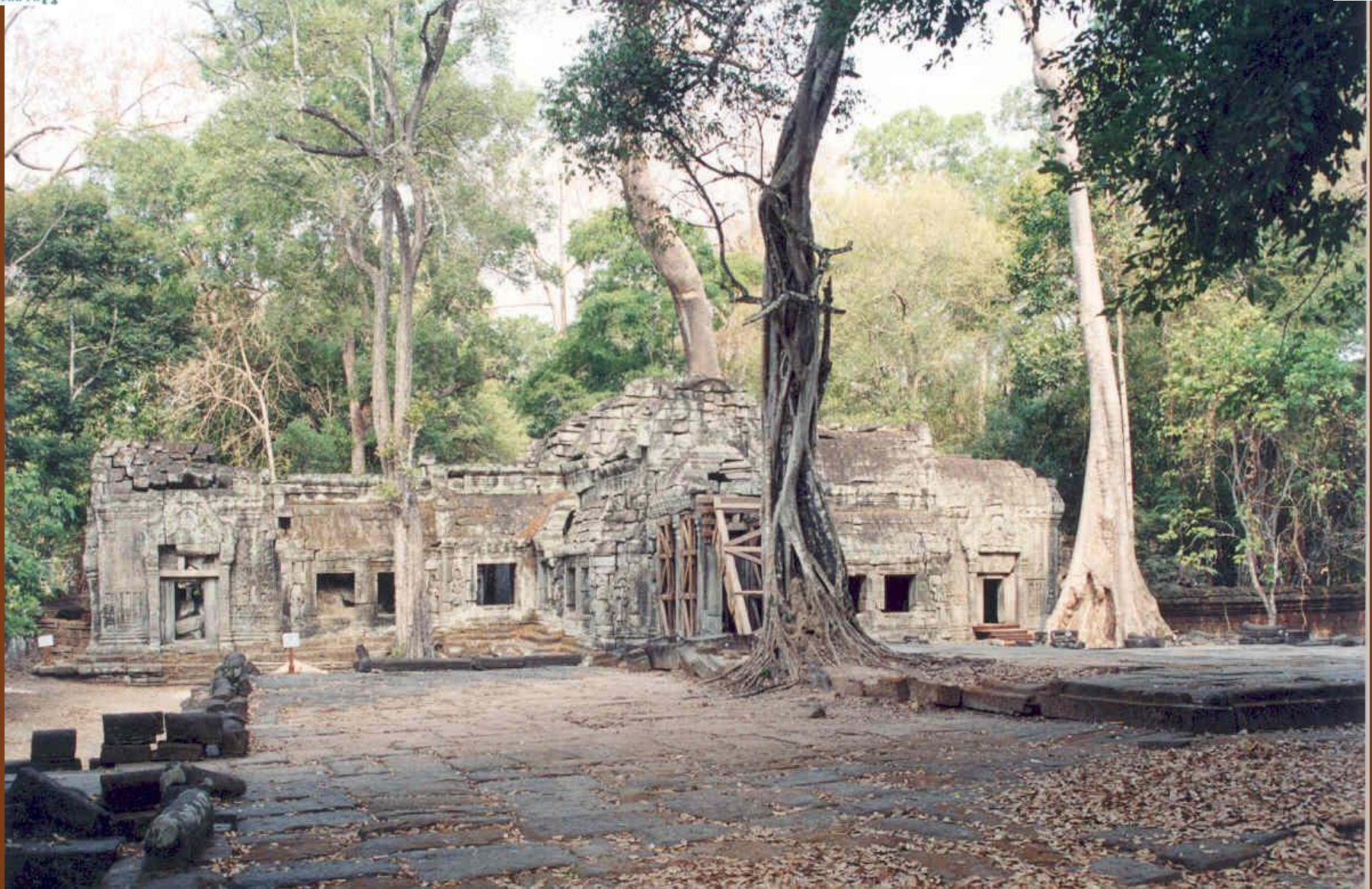
Located to the North east of the famous Angkor Vat temple enclosed within an area of 1105m x 663.00m

Concentric in plan having five rectangular enclosures with *gopuras* (gateways) and moats.

The statue of “*Prajnaparamita*” personification of mother of Buddha was placed in the central shrine.



Conservation and Restoration of Ta Prohm Temple, Siem Reap, Cambodia



GOPURA ON FOURTH ENCLOSURE (EAST), TA - PROHM, TEMPLE

Conservation and Restoration of Ta Prohm Temple,
Siem Reap, Cambodia



The Entwining Tree Roots, TA- PROHM, TEMPLE

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Conservation and Restoration of Ta Prohm Temple, Siem Reap, Cambodia



Stagnated Water in TA-PROHM, TEMPLE

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Conservation and Restoration of Ta Prohm Temple, Siem Reap, Cambodia



Stagnated Water in TA-PROHM, TEMPLE
Archaeological Survey of India



Conservation and Restoration of Ta Prohm Temple, Siem Reap, Cambodia



Wooden Bye-pass Bridge over Outer Moat (West side), Ta- Prohm , Temple
Archaeological Survey of India

Conservation and Restoration of Ta Prohm
Temple, Siem Reap, Cambodia



Collapsed third Enclosures Gallery on North East , Ta- Prohm, Temple
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Conservation and Restoration of Ta Prohm Temple, Siem Reap, Cambodia



Hall of Dancers in Ta- Prohm , Temple

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Conservation and Restoration of Ta Prohm Temple, Siem Reap, Cambodia



South Gate , Ta- Prohm , Temple

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Conservation Strategy

Archaeological Survey of India (ASI) has adopted a **multidisciplinary integrated scientific approach** for the conservation and restoration of this Temple.

Aims

- To protect the tangible and the intangible values of this temple;
- Maintain the OUV by preserving the authenticity and integrity of the temple complex and undertake minimum interventions;
- Protect and preserve the natural and the built heritage and ensure its sustainability and maintain the symbiotic relation;
- Make the site more accessible and ensure safety of the visitors;
- To enable transfer of skills and training of local Cambodians



The Multidisciplinary team

Archaeologists, Engineers, Epigraphists, Historians and Architects,
from Archaeological Survey of India (ASI)

Engineers from Indian Institute of Technology and Larsen and
Toubro, to address the issues of structural stability and ensure
effective monitoring of the site

Hydrologists and Engineers from Water and Power Consultancy
Services (WAPCOS) to address the issue of water stagnation in the
temple

Scientists, Botanists and Arboriculturists from Forest Research
Institute (FRI) and Indian Council for Forest and Education (ICFRE),
for the conservation of the trees



Technical Studies Undertaken

Study of the Structural Systems of the Temple

Structural behavior of the Corbelled vaults

Geotechnical studies

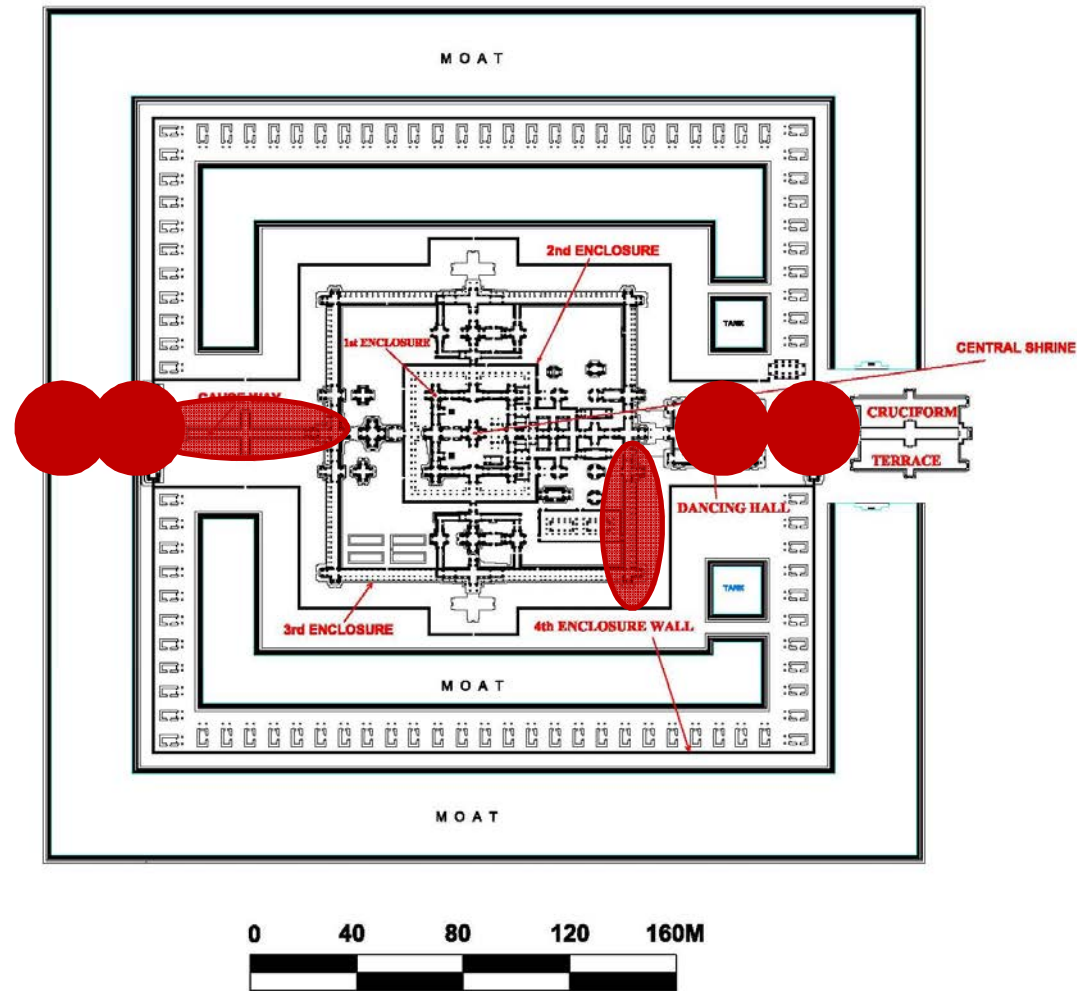
Hydrological studies

Botanical and Arboriculture studies

Material testing

Ground Penetrating Radar Survey

Monitoring mechanisms



Site Plan ,Ta- Prohm, Temple



Conservation and Restoration of Ta Prohm Temple, Siem Reap, Cambodia



Collapsed third Enclosures Gallery on South East , Ta- Prohm, Temple



Conservation and Restoration of Ta Prohm Temple, Siem Reap, Cambodia



Causeway Between Third and Fourth Enclosure on West Ta- Prohm, Temple
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Conservation and Restoration of Ta Prohm Temple, Siem Reap, Cambodia



Fourth Enclosure Gopura on West, Ta-Prohm ,Temple
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Conservation and Restoration of Ta Prohm Temple, Siem Reap, Cambodia



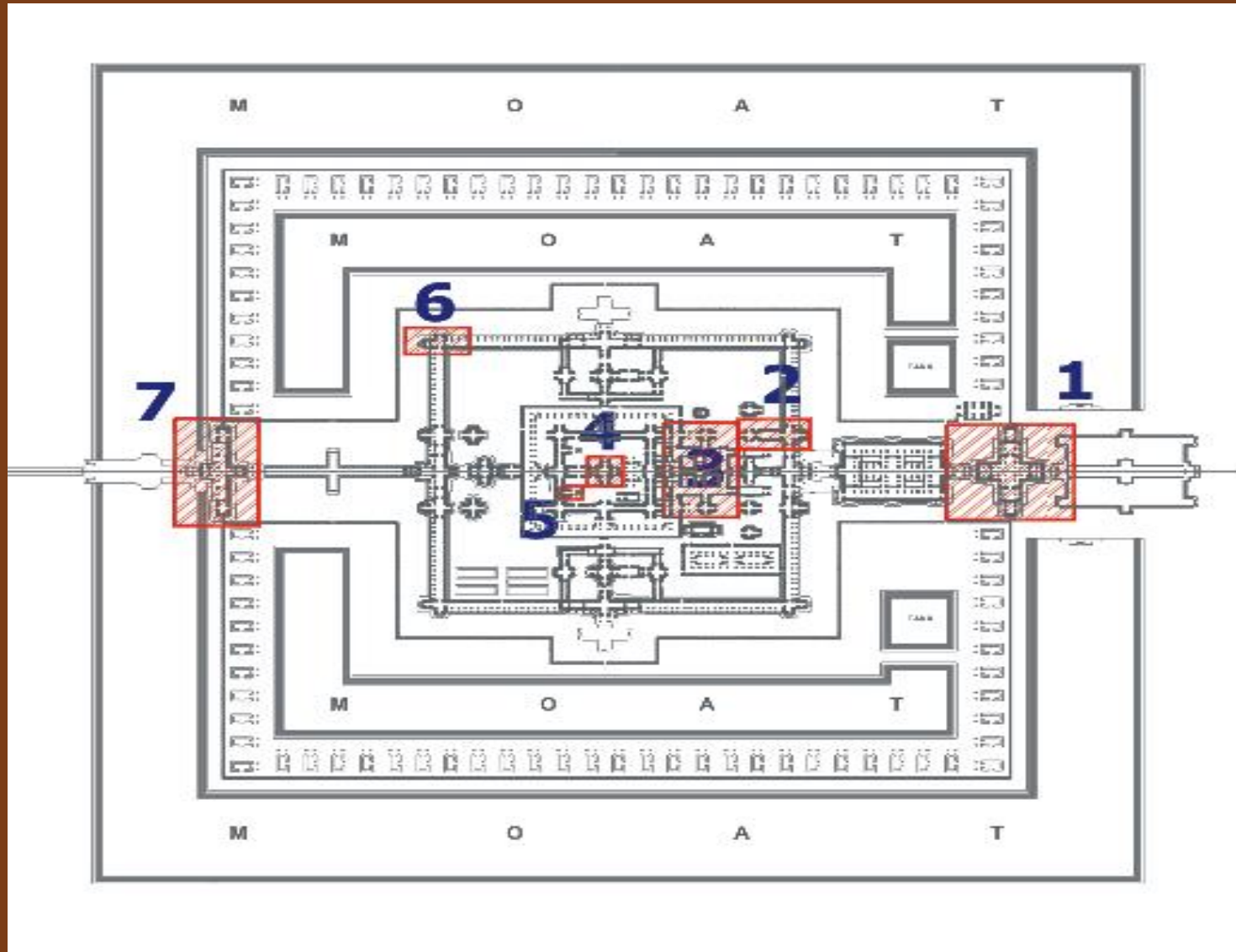
Hall Of Dancers, Ta- Prohm, Temple
Archaeological Survey of India



Conservation and Restoration of Ta Prohm Temple, Siem Reap, Cambodia



Laterite Wall Along with Gate on Fifth Enclosure (West), Ta- Prohm, Temple
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CRITICAL LOCATIONS , TA-PROHM, TEMPLE
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Conservation and Restoration of Ta Prohm Temple, Siem Reap, Cambodia



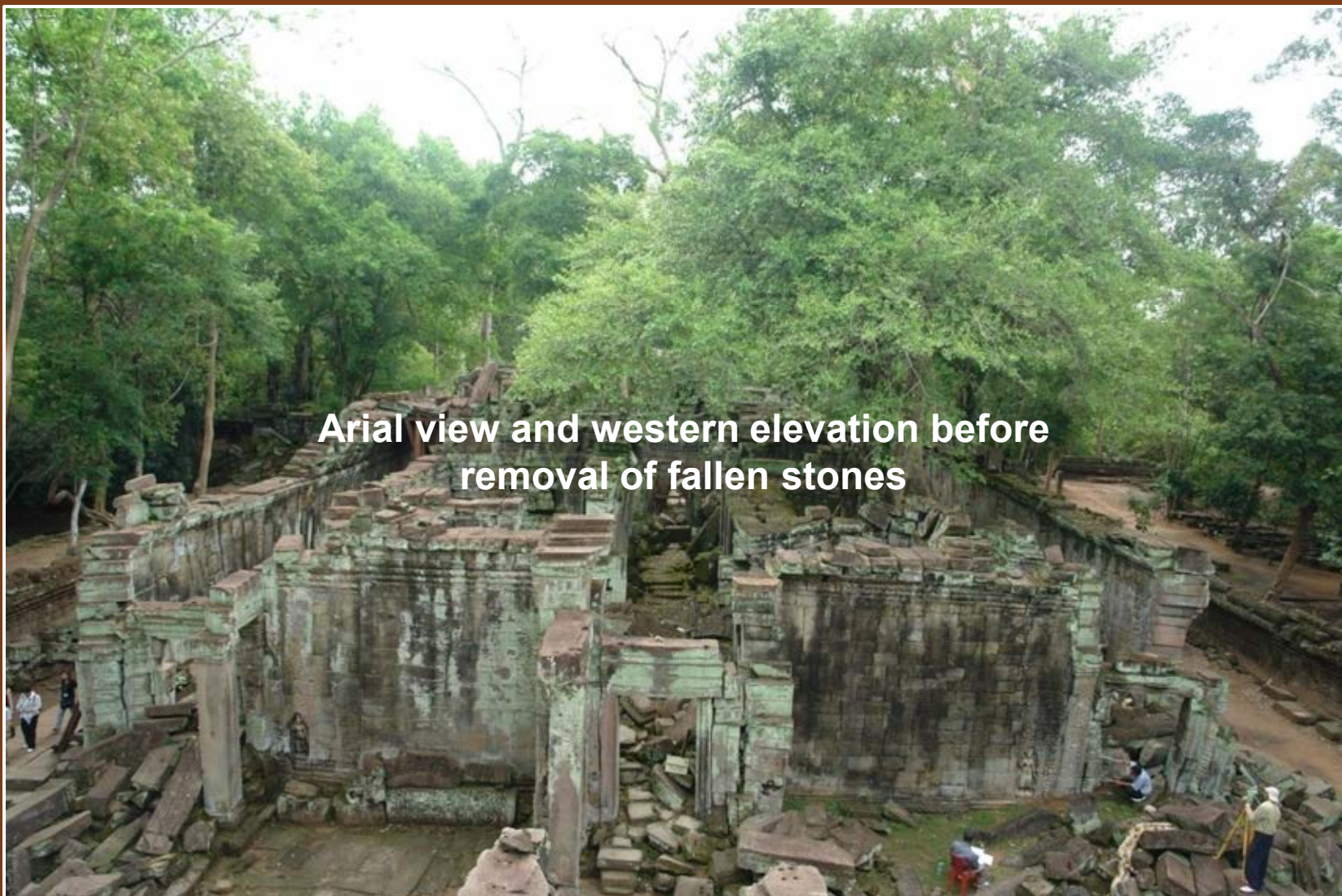
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**Ongoing Conservation
Work of
“Hall of Dancer”**



Conservation and Restoration of Ta Prohm Temple, Siem Reap, Cambodia



**Aerial view and western elevation before
removal of fallen stones**

HALL OF DANCERS ,TA-PROHM,TEMPLE

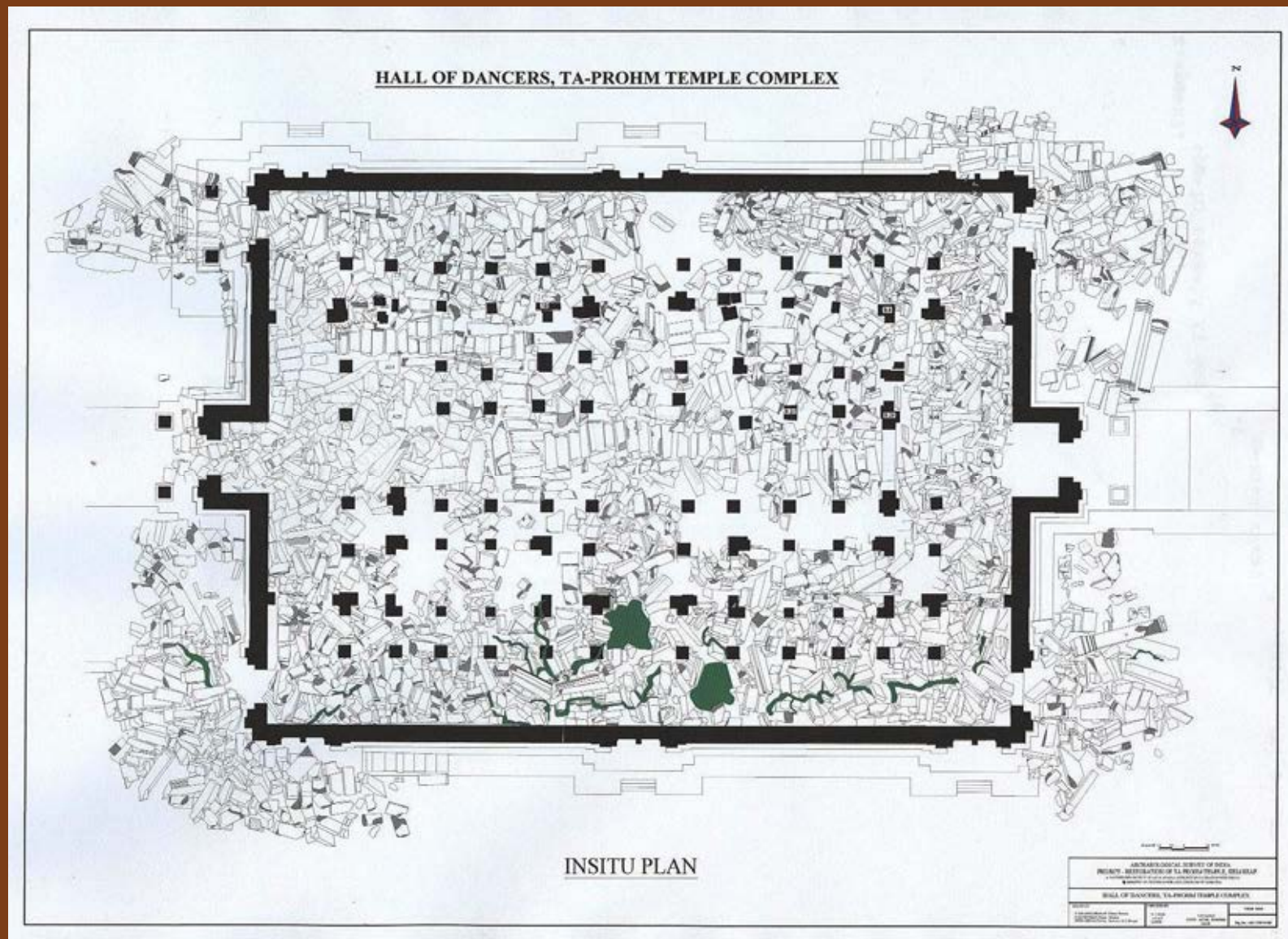
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North-east corner before dismantling inclined wall and removing fallen stones

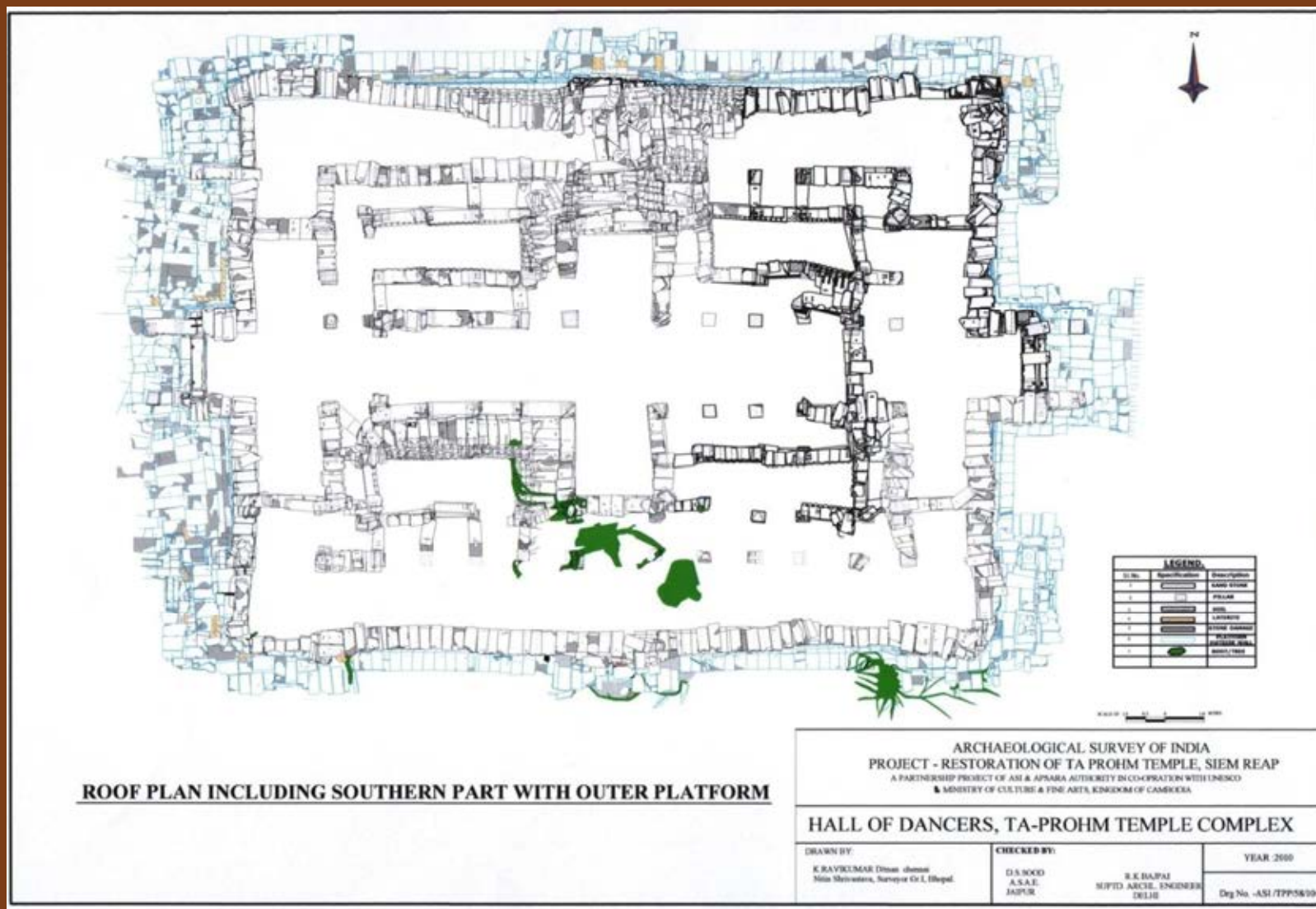


In situ plan before removal of fallen stones

Archaeological Survey of India



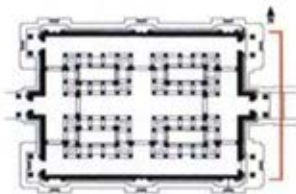
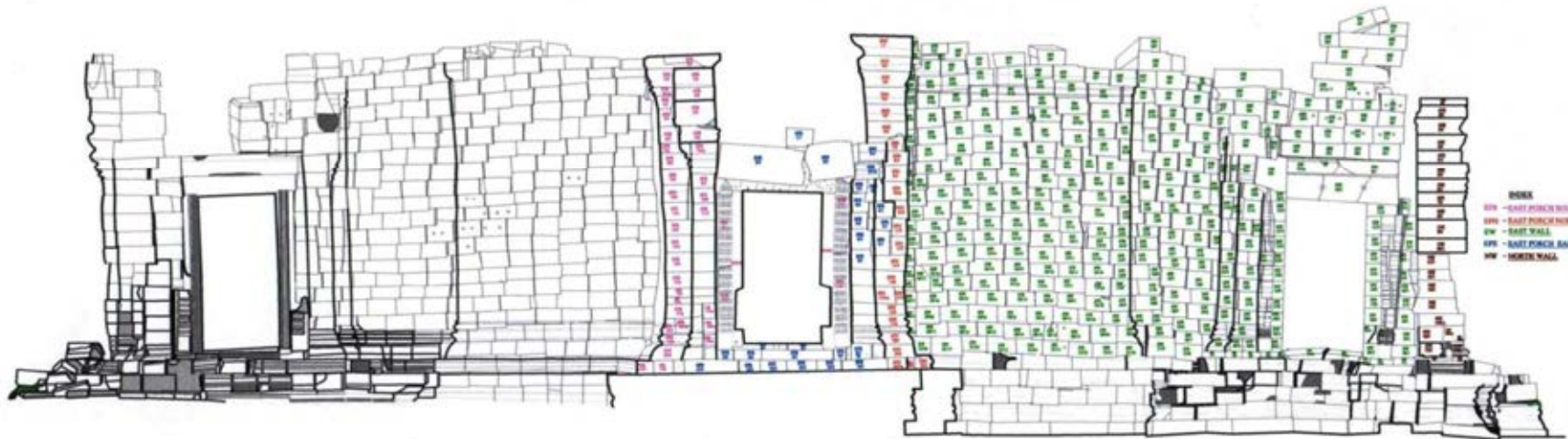
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Hall of Dancers - Existing top plan

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HALL OF DANCERS - TA PROHM TEMPLE

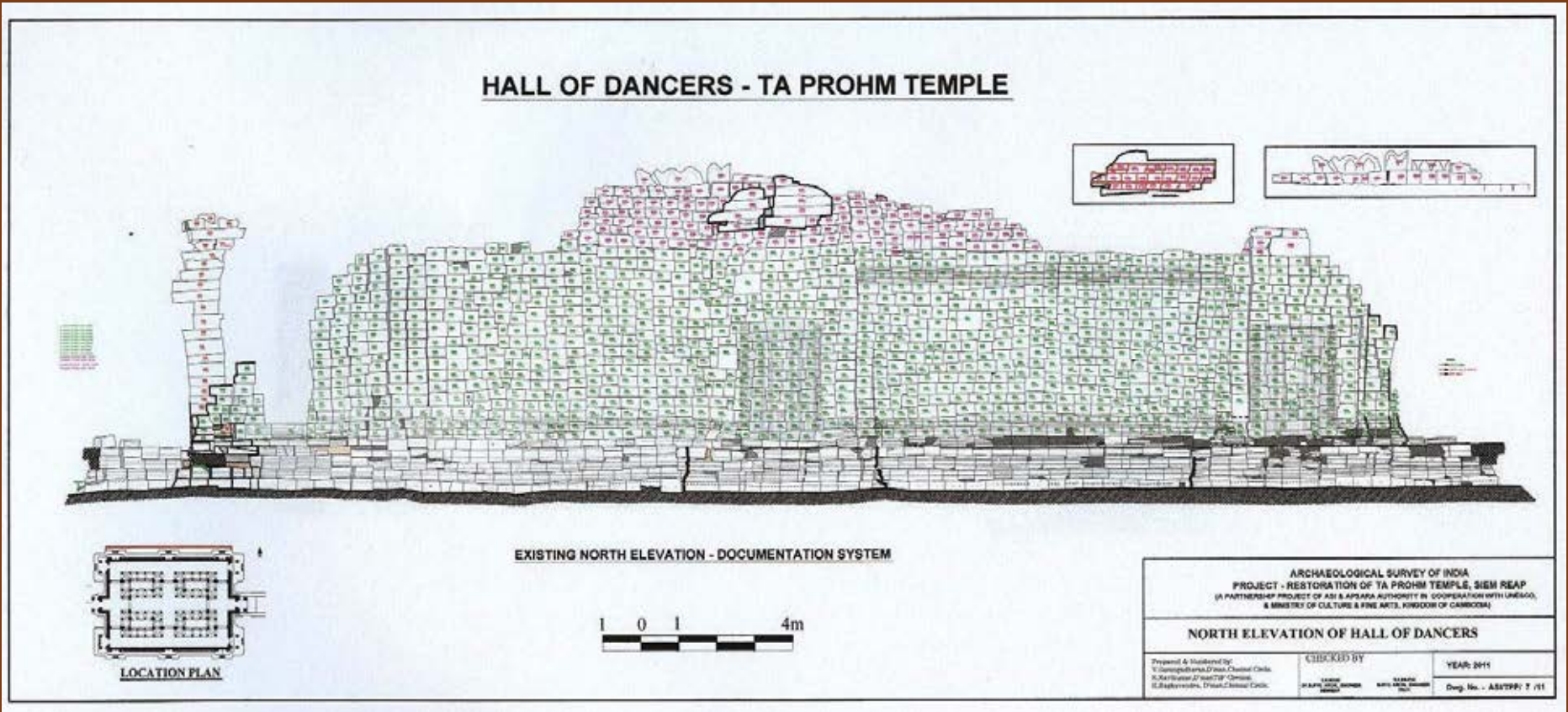


LOCATION PLAN

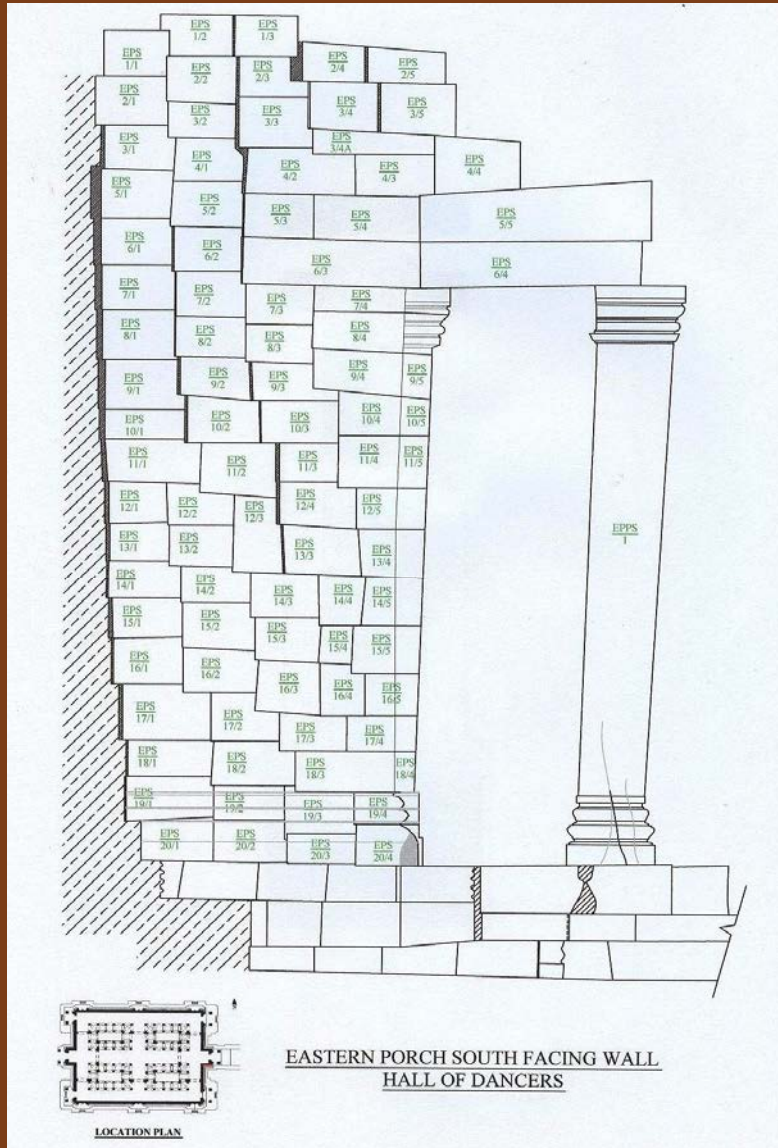
EXISTING EAST ELEVATION - DOCUMENTATION SYSTEM



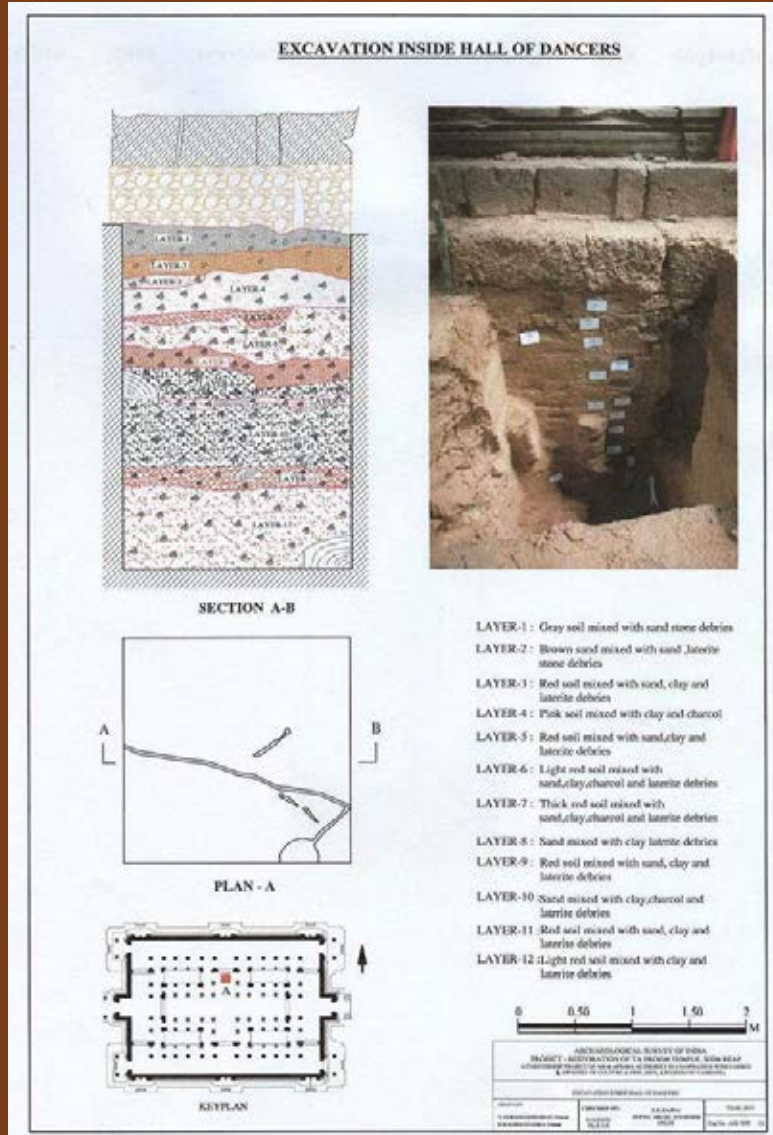
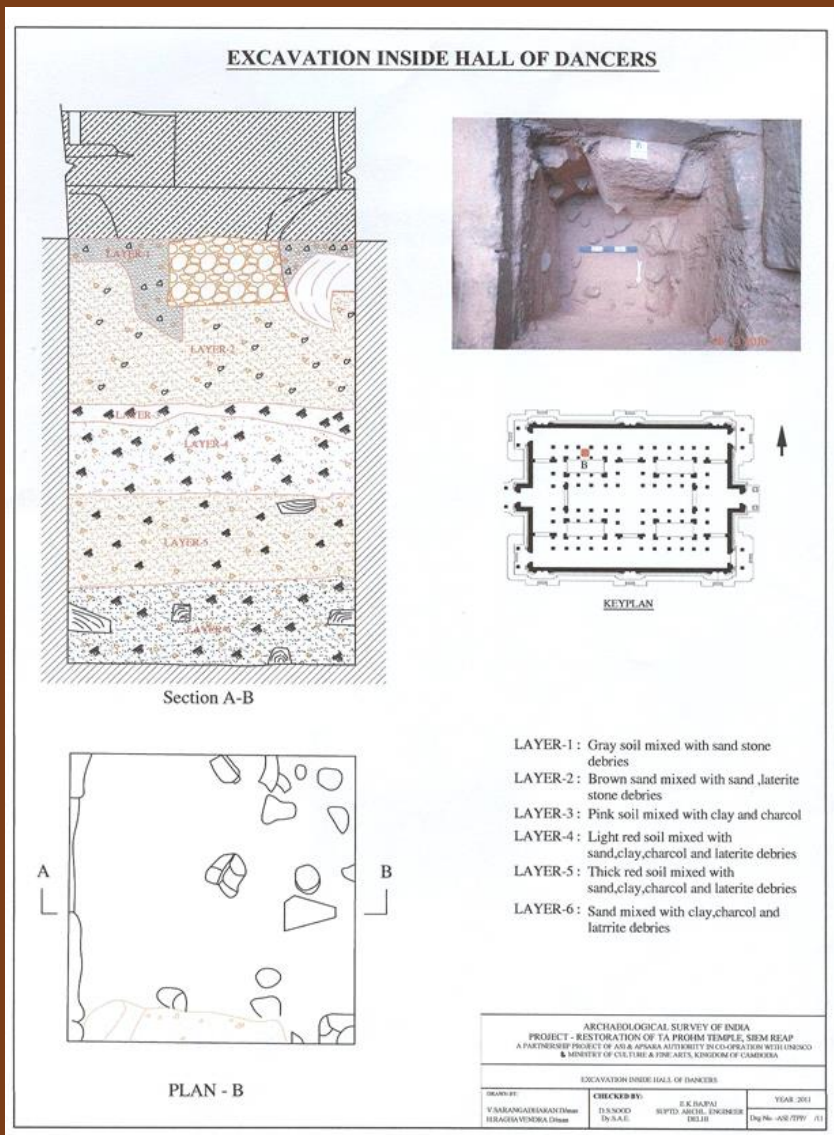
ARCHAEOLOGICAL SURVEY OF INDIA PROJECT - RESTORATION OF TA PROHM TEMPLE, SIEM REAP (A PARTNERSHIP PROJECT OF ASI & APSARA AUTHORITY IN COOPERATION WITH UNESCO, & MINISTRY OF CULTURE & FINE ARTS, KINGDOM OF CAMBODIA)		
EAST ELEVATION OF HALL OF DANCERS		
Prepared & Numbered by V.Srinivasan, IAS, Chennai Circle. K.Rajkumar, IAS, Chennai Circle. H.Raghavendra, IAS, Chennai Circle.	CHECKED BY S. Srinivasan, IAS, Chennai Circle.	YEAR: 2011 Dwg. No. - ASI/TPP 7 /11



Hall of Dancers - Elevations
 Archaeological Survey of India



Hall of Dancers - Elevations





Conservation Approach

Conservation based on *Anastylosis*;

Partial restoration of the Hall of Dancers to reflect the restored structure as well its earlier condition (as it was found);

Essential retrofitting and consolidation of the structure and stone members (structural and ornamental);

No structural corrections, to follow the natural undulations of the surfaces;

Minimal intervention; to retain its archaeological value



Methodology

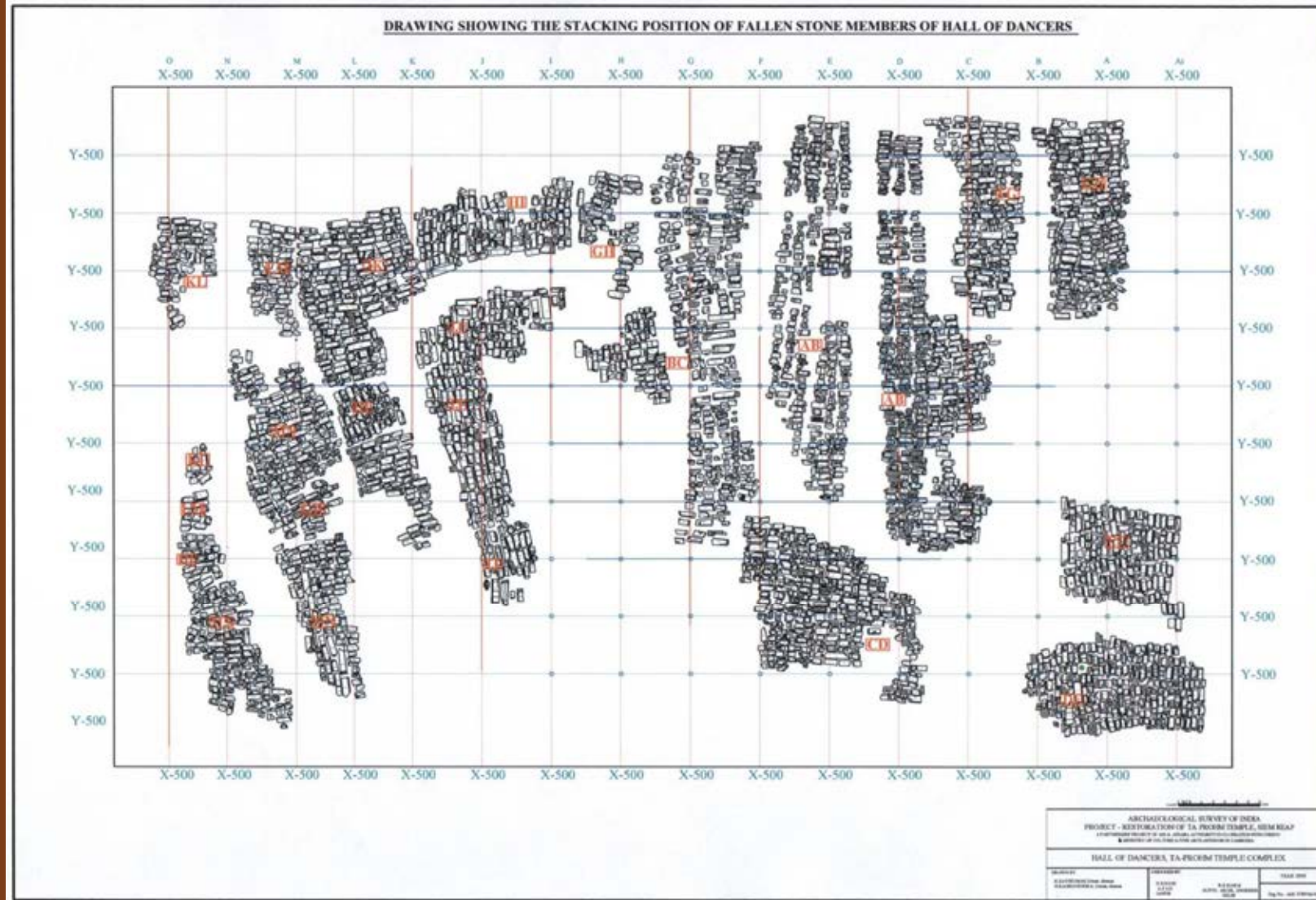
Comprehensive documentation of the structure and *in-situ* and stone by stone documentation;

Partial dismantling of the exterior walls (east, north and west sides) and strengthening of the foundations;

Floor strengthening; Opening up the original two drains;

Repairs and joining of stones (Columns, lintels, pediments, etc., wherever necessary after due strengthening including strapping, etc., original and new interventions clearly discernible;

Repairs to the semi-vaulted roof (on-going)



Plan showing the stacking position of fallen stones

Archaeological Survey of India



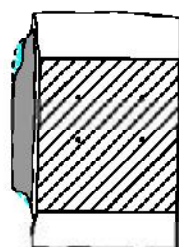
BEFORE



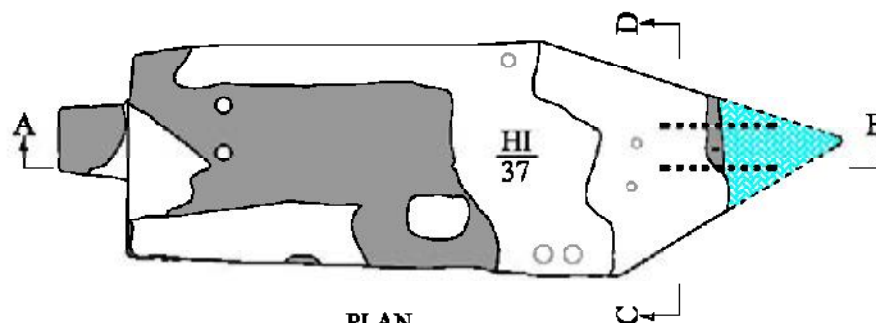
DURING



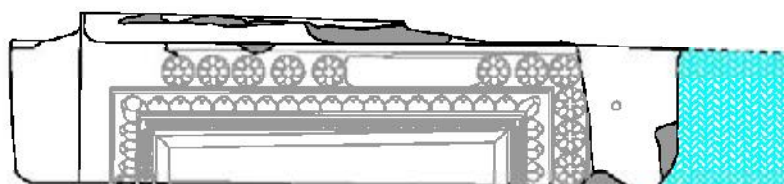
AFTER



SECTION CD



PLAN



ELEVATION

HI
37

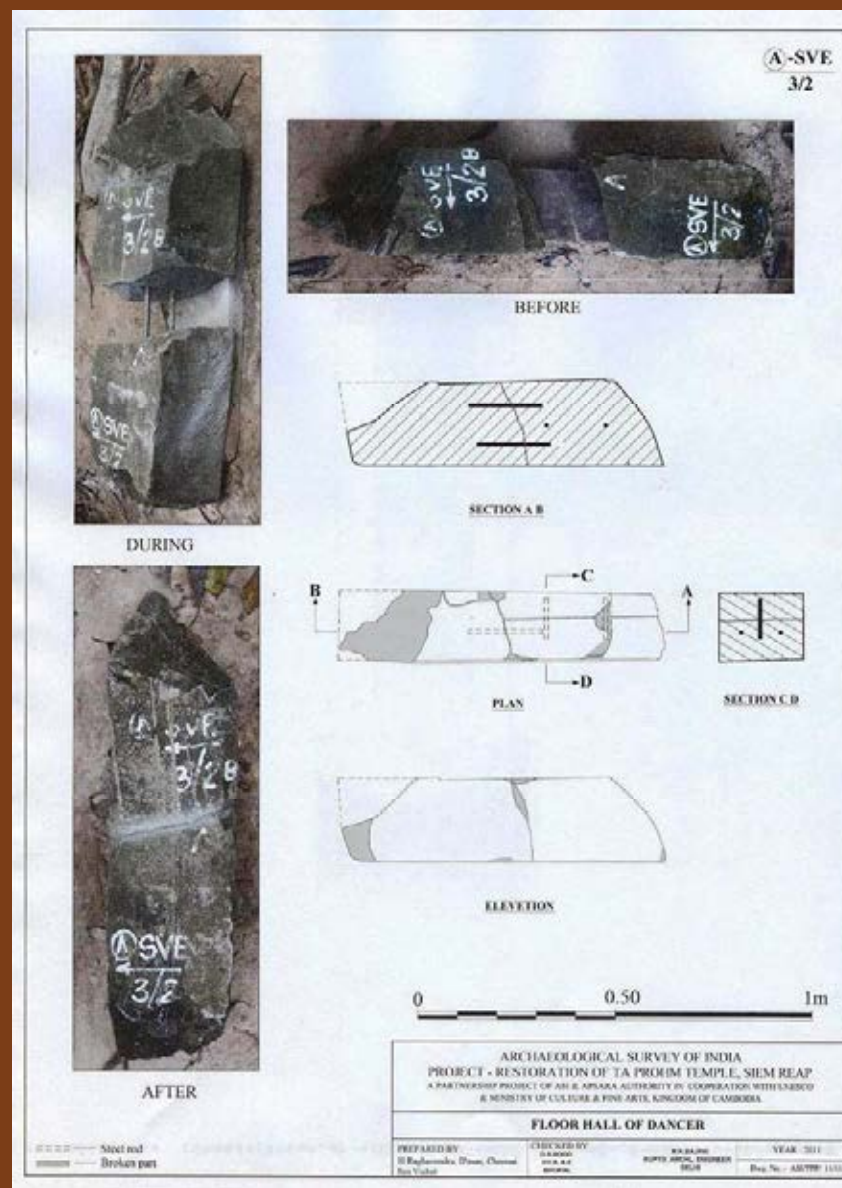
- New stone
- Threded S.S. rod 12mm Ø
- Broken part



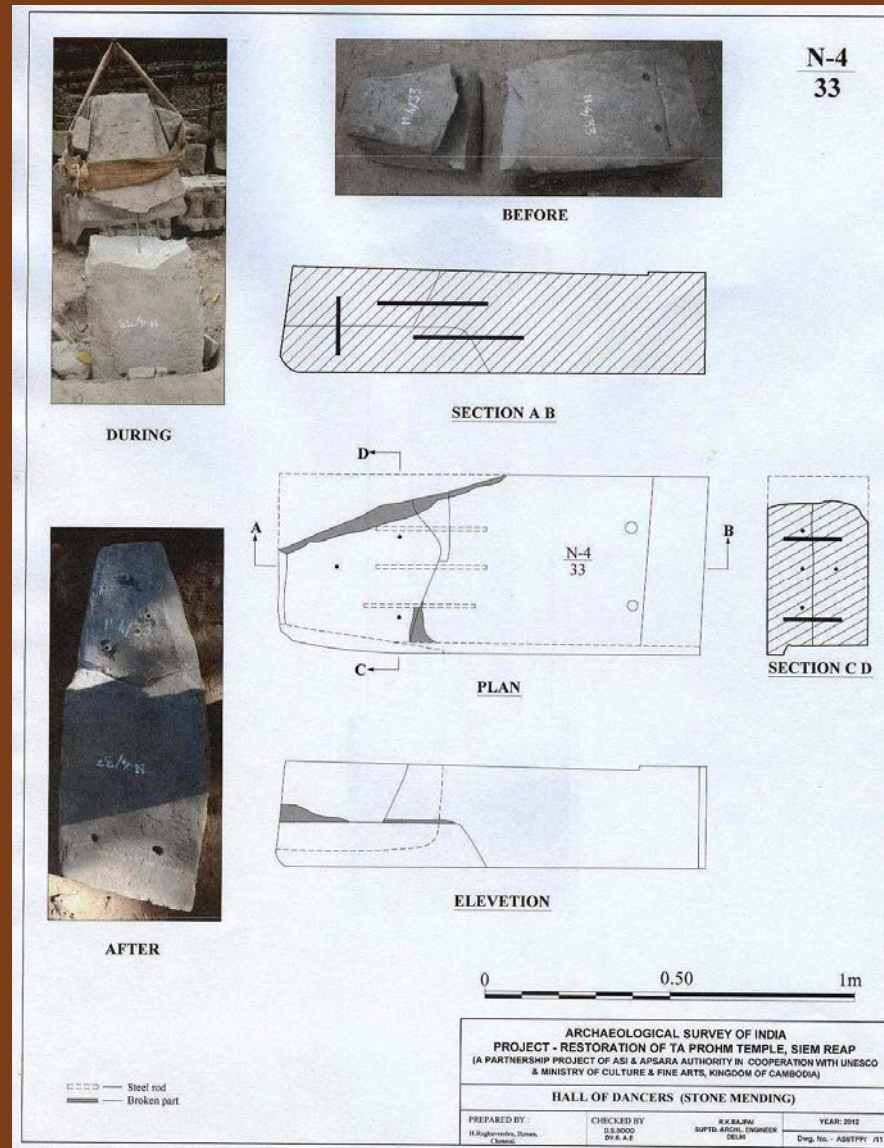
ARCHAEOLOGICAL SURVEY OF INDIA PROJECT - RESTORATION OF TA PROHM TEMPLE, SIEM REAP <small>(A PARTNERSHIP PROJECT OF ASI & APSARA AUTHORITY IN COOPERATION WITH UNESCO & MINISTRY OF CULTURE & FINE ARTS, KINGDOM OF CAMBODIA)</small>			
HALL OF DANCERS (STONE MENDING)			
<small>PREPARED BY:</small> V.K. Mishra, Surveyor In-Charge, Varanasi	<small>CHECKED BY:</small> S.K. Mishra, ASI, Varanasi	<small>BY:</small> Dr. JAYWU MEASOM, PROJECT COORDINATOR, APSARA	<small>YEAR:</small> 2010
			<small>DRG. NO. - ASI/199/10</small>

Stone mending Documentation

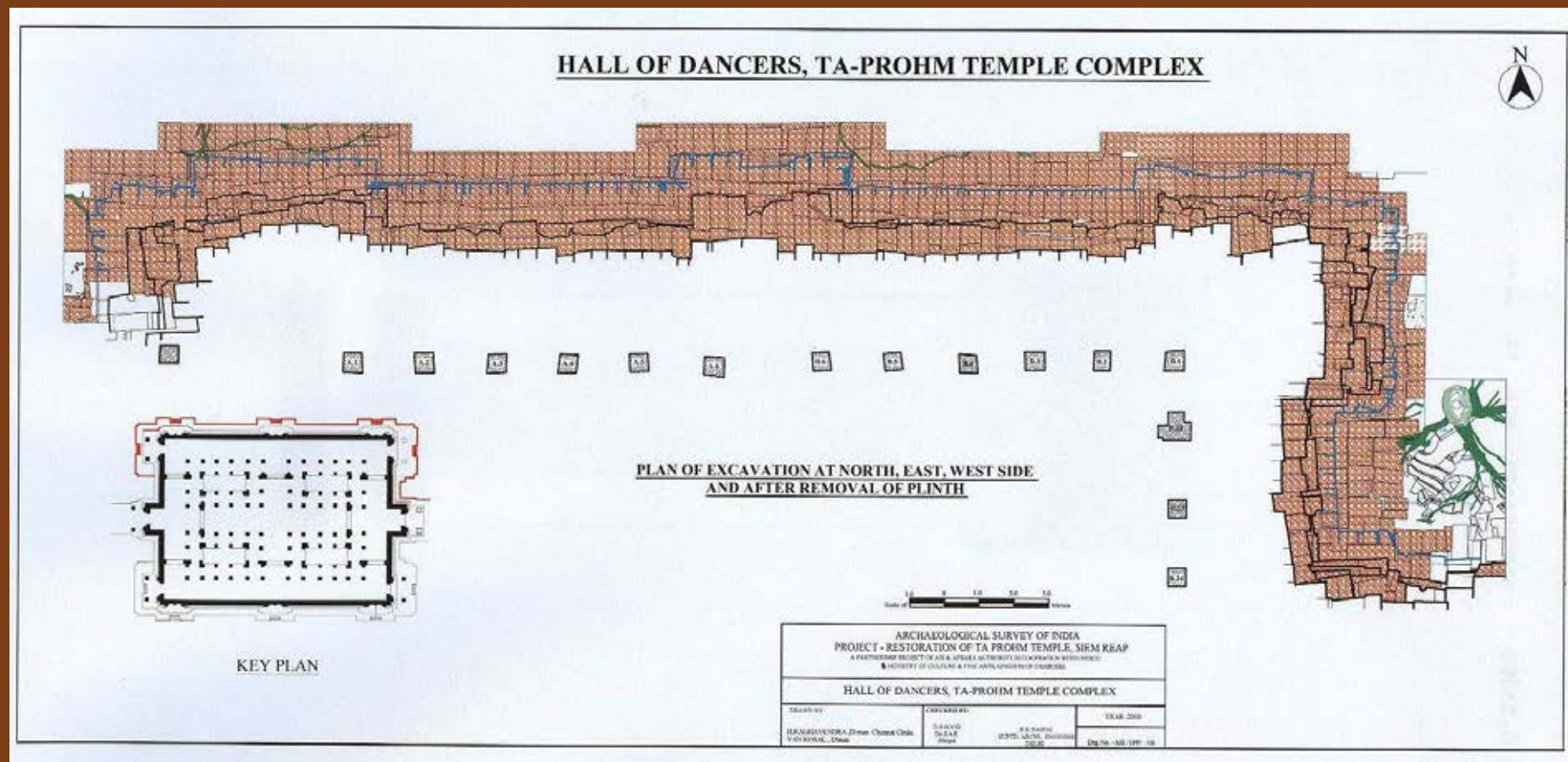
Archaeological Survey of India



Hall of Dancers - Mending of vaults with epoxy, threaded stainless steel rods and polymer.



Hall of Dancers - Mending of broken plinth stones with epoxy, threaded stainless steel rods and polymer.



Hall of Dancers - Exposed laterite apron along the north east plinth.



Hall of Dancers - Filling plinth foundation with lime and sand.



Hall of Dancers - Inter northern floor after removal of sandstones and laterite stones.

Conservation and Restoration of Ta Prohm Temple, Siem Reap, Cambodia , Archaeological Survey of India



Hall of Dancers - Consolidation of interior northern floor foundation.



Hall of Dancers - Compaction of soil under the floor.



Hall of Dancers - Re-laying of interior northern laterite core after consolidation.



Hall of Dancers - Resetting of sand stone wall on eastern side.



Hall of Dancers - Resembling of main entrance gate on eastern porch.



Conservation and Restoration of Ta Prohm Temple, Siem Reap, Cambodia



Before-2010



During-2011-12



During-2013-14

Eastern Entrance, Hall of Dancers

Archaeological Survey of India



Conservation and Restoration of Ta Prohm Temple, Siem Reap, Cambodia



Before-2010



During-2011-12



During-2013-14

North-East corner, Hall of Dancers

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Conservation and Restoration of Ta Prohm Temple, Siem Reap, Cambodia



Before-2010



During-2011-12



During-2013-14

North-West corner, Hall of Dancers

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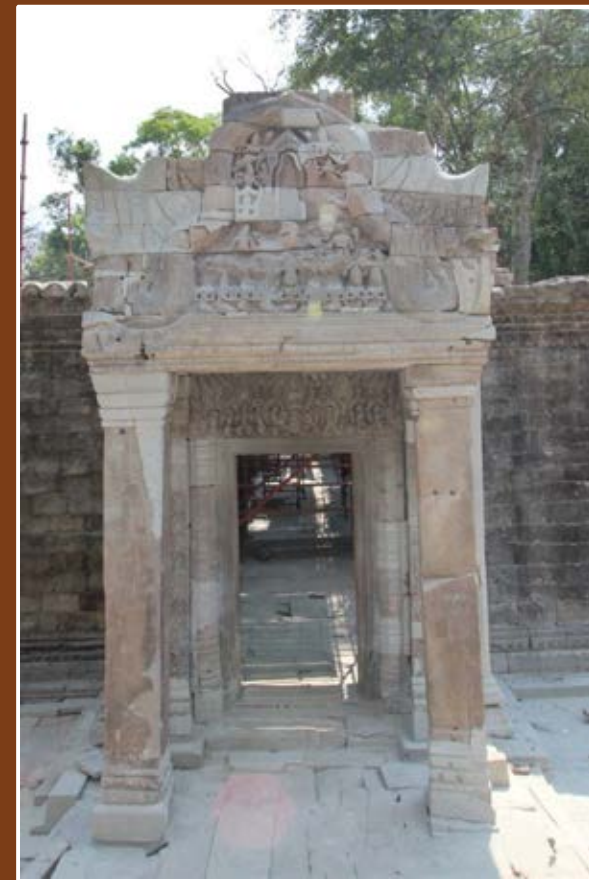
Conservation and Restoration of Ta Prohm Temple, Siem Reap, Cambodia



Before-2010



During-2011-12



During-2013-14

North-Western Corner Entrance, Hall of Dancers

Archaeological Survey of India



Conservation and Restoration of Ta Prohm Temple, Siem Reap, Cambodia



Before-2010



During-2011-12



During-2013-14

Western Entrance, Hall of Dancers

Archaeological Survey of India



Conservation and Restoration of Ta Prohm Temple, Siem Reap, Cambodia



Before-2010



During-2011-12



During-2012-13

Interior of the Hall of Dancers (main passage)



Conservation and Restoration of Ta Prohm Temple, Siem Reap, Cambodia



Before-2010



During-2011-12



During-2013-14

Interior of Hall of Dancers (North-east)

Archaeological Survey of India



South-west Corner (Discernible distinction - original and restored portions)



Conservation and Restoration of Ta Prohm Temple, Siem Reap, Cambodia



Before-2010



During-2011-12



During-2013-14

Hall of Dancers (Northern Passage restoration)

Archaeological Survey of India



Conservation and Restoration of Ta Prohm Temple, Siem Reap, Cambodia



Pre-Conservation



**During
Conservation**

Interior elevation before and after removal of fallen stones

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Conservation and Restoration of Ta Prohm Temple, Siem Reap, Cambodia



Before-2010



During-2011-12



During-2013-14

North-west corner restoration - Hall of Dancers

Archaeological Survey of India



Conservation and Restoration of Ta Prohm Temple, Siem Reap, Cambodia



Before-2010



During-2011-12



During-2013-14

Hall of Dancers (north-west corner)



Conservation and Restoration of Ta Prohm Temple, Siem Reap, Cambodia



Before-2010



During-2011-12



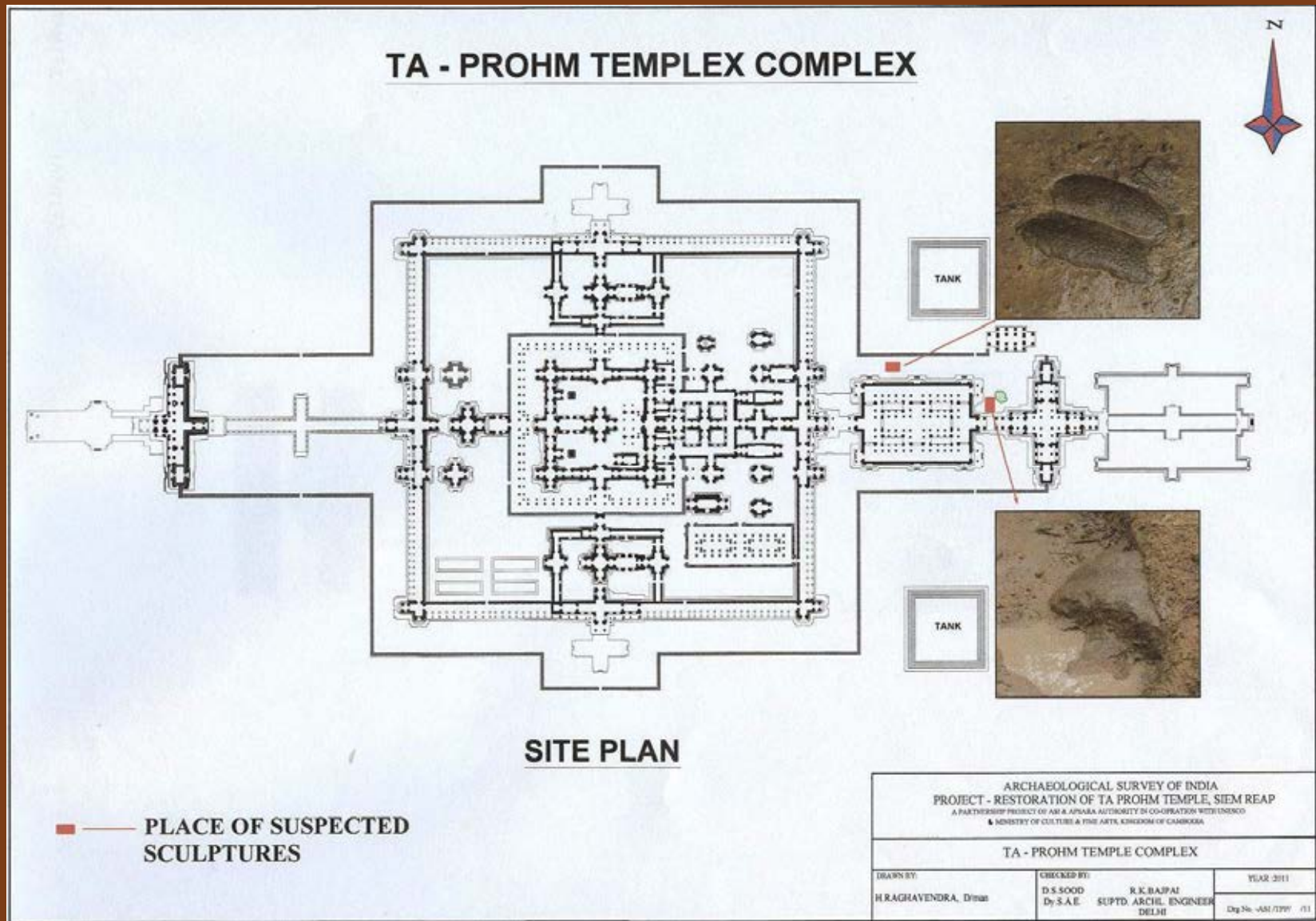
During-2013-14

Hall of Dancers (North-east Corner)

Archaeological Survey of India

Buddha Statues found near Hall of Dancers

Conservation and Restoration of Ta Prohm Temple, Siem Reap, Cambodia



Hall of Dancers – Site plan showing location of suspected sculptures

Conservation and Restoration of Ta Prohm Temple, Siem Reap, Cambodia



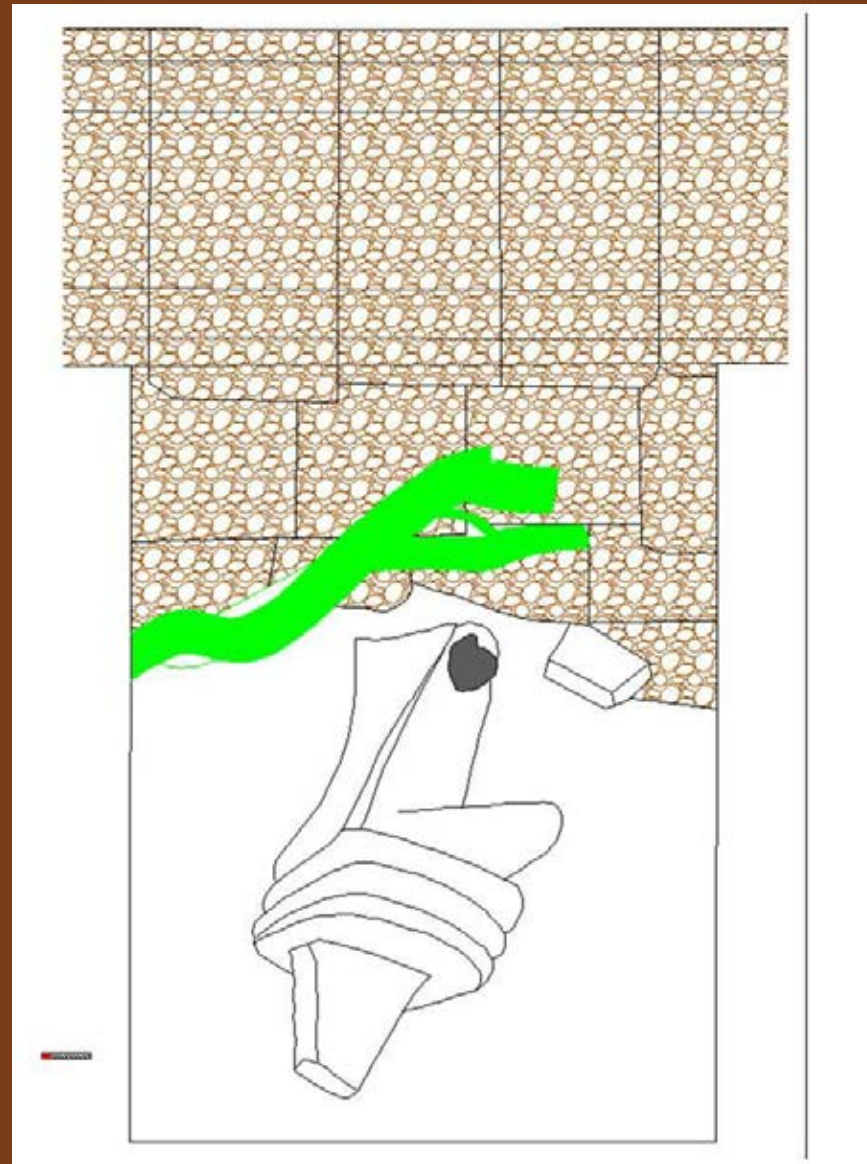
Buddha statue surface exposed after heavy rains near laterite wall.

Conservation and Restoration of Ta Prohm Temple, Siem Reap, Cambodia



Buddha statue surface exposed after heavy rains near laterite wall.

Conservation and Restoration of Ta Prohm Temple, Siem Reap, Cambodia

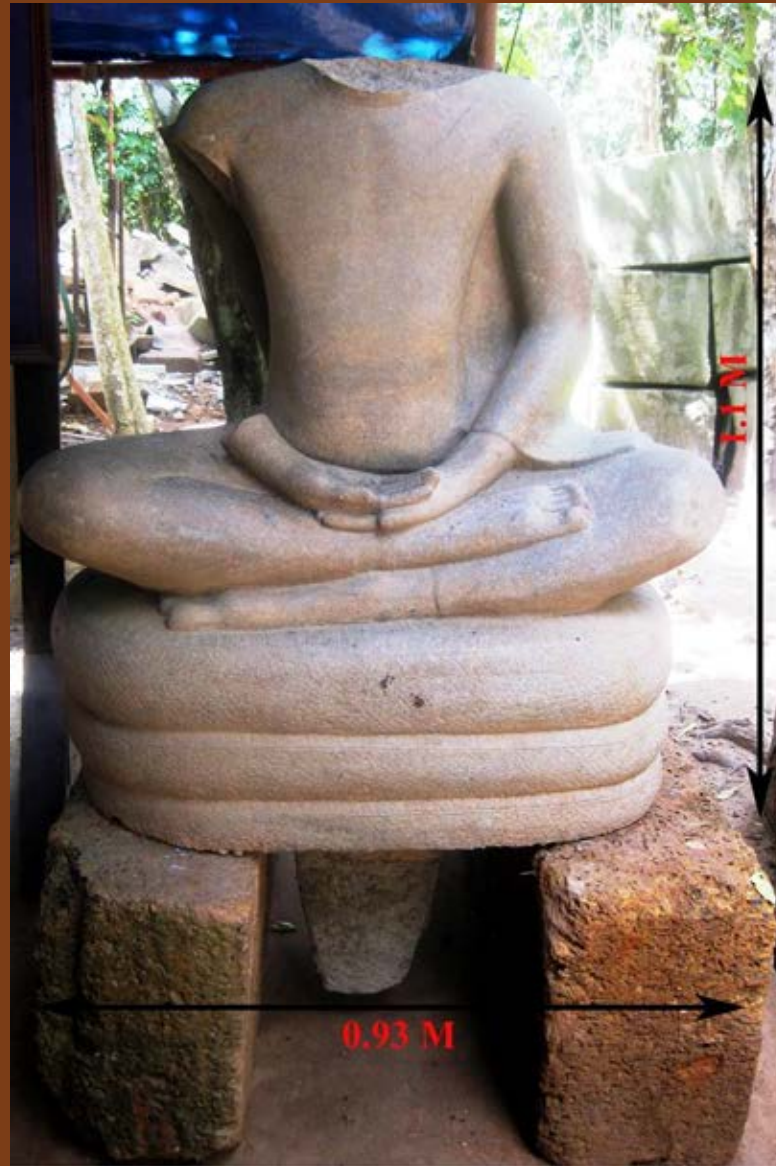


Buddha statue (Small size)



Hall of Dancers - Aerial View of Small Buddha

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Headless Buddha statue (Small Size)

Conservation and Restoration of Ta Prohm Temple, Siem Reap, Cambodia



Buddha statue (Big size) exposed after heavy rains

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Hall of Dancers - Aerial View of Big Buddha

Conservation and Restoration of Ta Prohm Temple, Siem Reap, Cambodia



Recovery of Buddha sculpture

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Conservation and Restoration of Ta Prohm Temple, Siem Reap, Cambodia

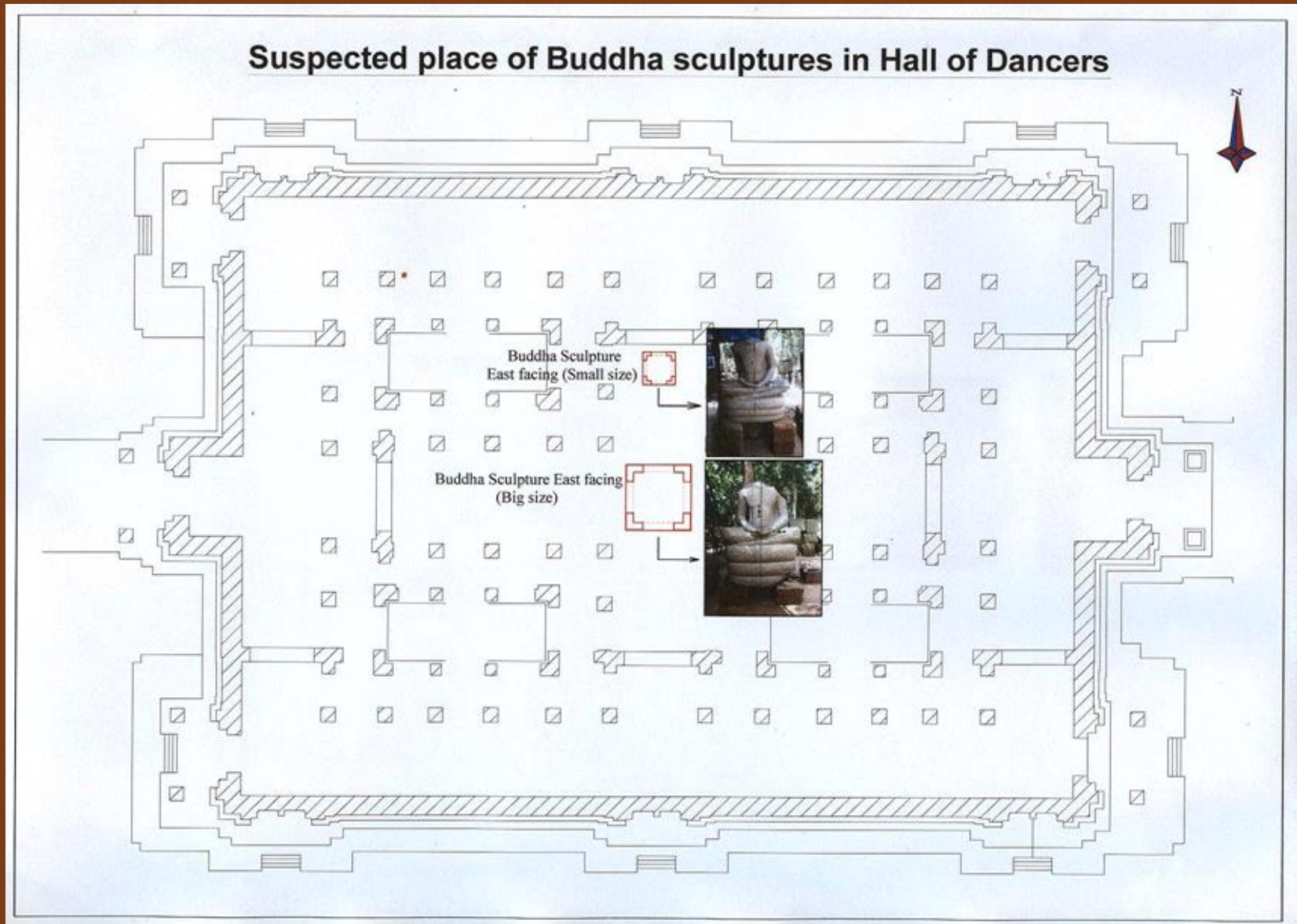


Conservation and Restoration of Ta Prohm Temple, Siem Reap, Cambodia



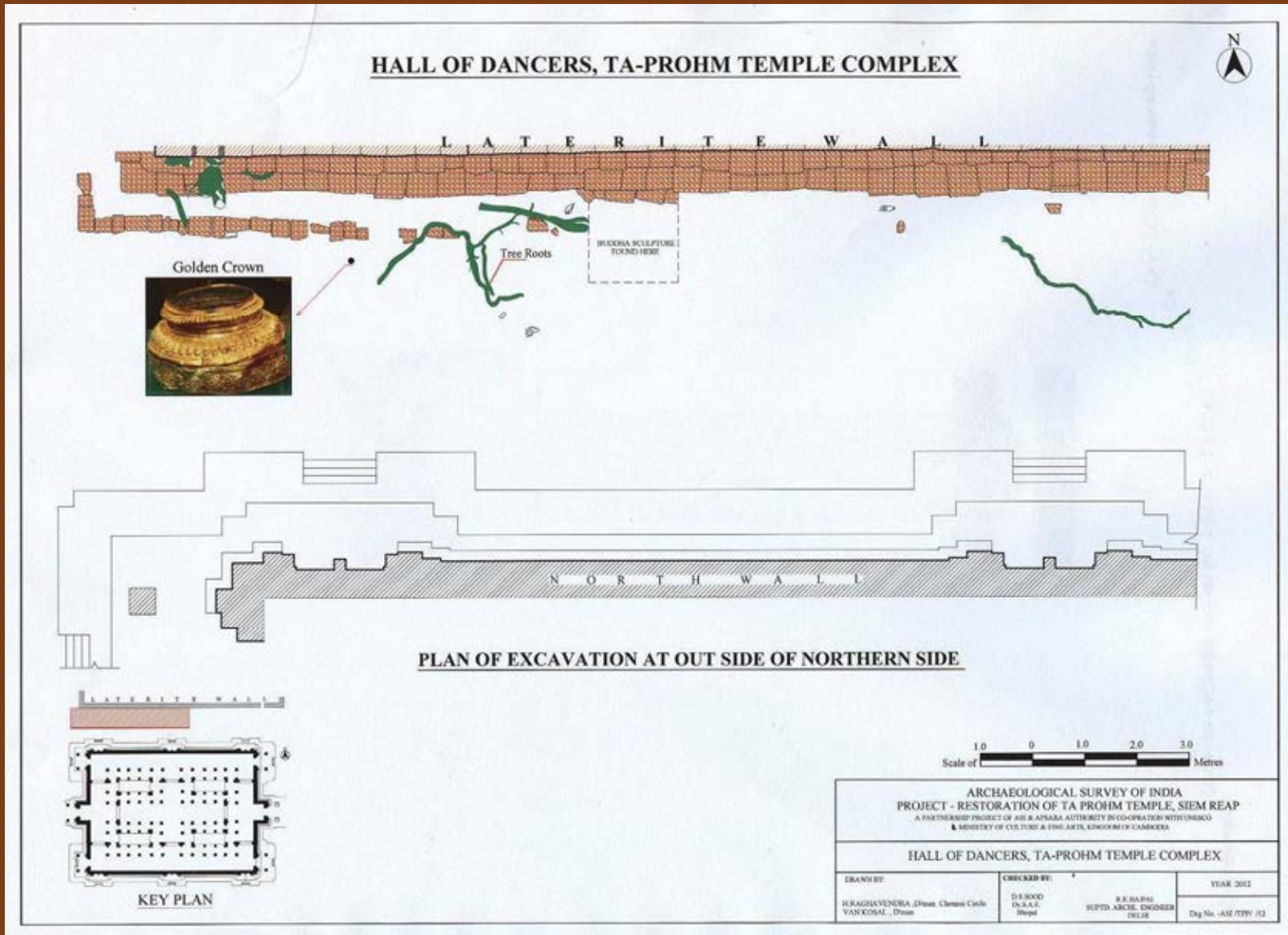
Headless Buddha statue (Big size)

Conservation and Restoration of Ta Prohm Temple, Siem Reap, Cambodia



Suspected place of Buddha Sculptures in Hall of Dancers

Part of the Golden crown found near Hall of
Dancers



Location plan – Part of Golden Crown



Visibility part of golden crown - After removal of second layer silt from the laterite floor.

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Recovery part of golden crown from deposit silt - In presence of HE. R.K.Sachdeva, Ambassador of India and APSARA officials.

Conservation and Restoration of Ta Prohm Temple, Siem Reap, Cambodia , Archaeological Survey of India



Part of the golden crown - Cleaning process in APSARA office. In presence of HE. Bun Raith, D.G. APSARA Authority



Part of golden Crown - After cleaning with weight



Golden Crown



Pre-Conservation



**During
Conservation**



**After
Conservation**

Third Enclosure Gallery, Eastern side South wing



Conservation and Restoration of Ta Prohm Temple, Siem Reap, Cambodia



Pre-Conservation



During Conservation



After Conservation

Third Enclosure Gallery, Eastern side South wing



Conservation and Restoration of Ta Prohm Temple, Siem Reap, Cambodia

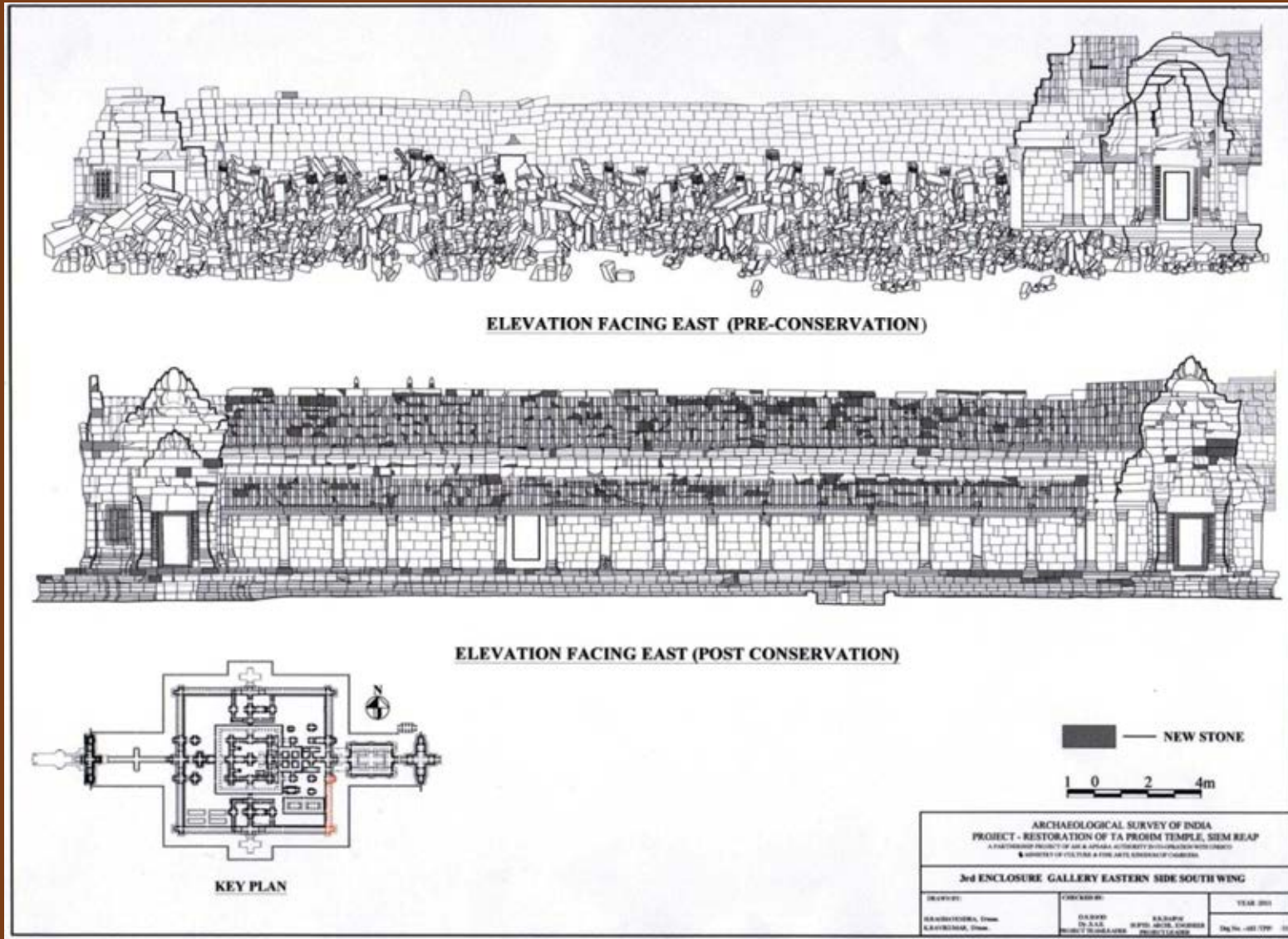


Pre-Conservation



After Conservation

Third Enclosure Gallery, Eastern side South wing



Third Enclosure Gallery, Eastern side South wing

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Pre-Conservation

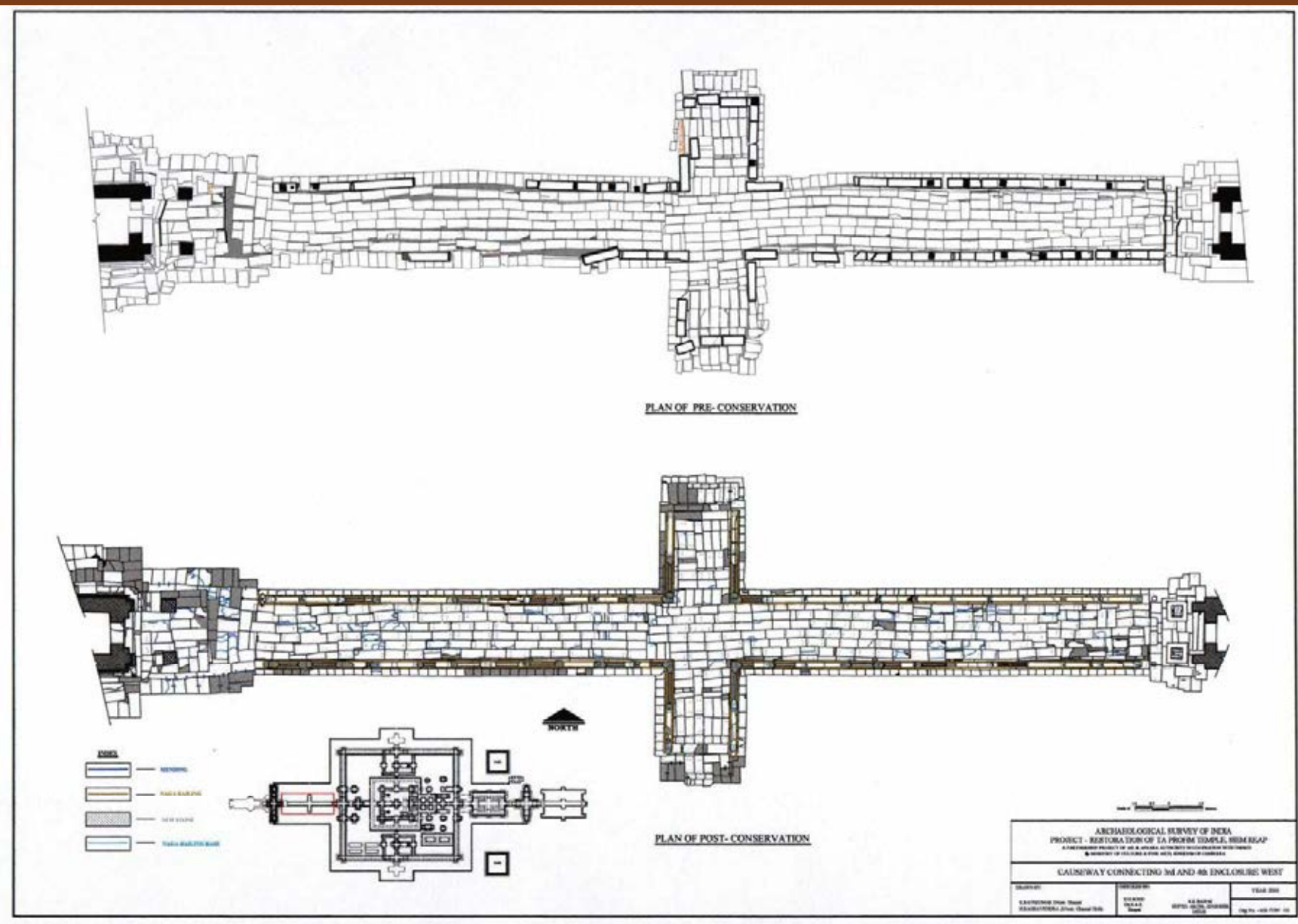


During Conservation

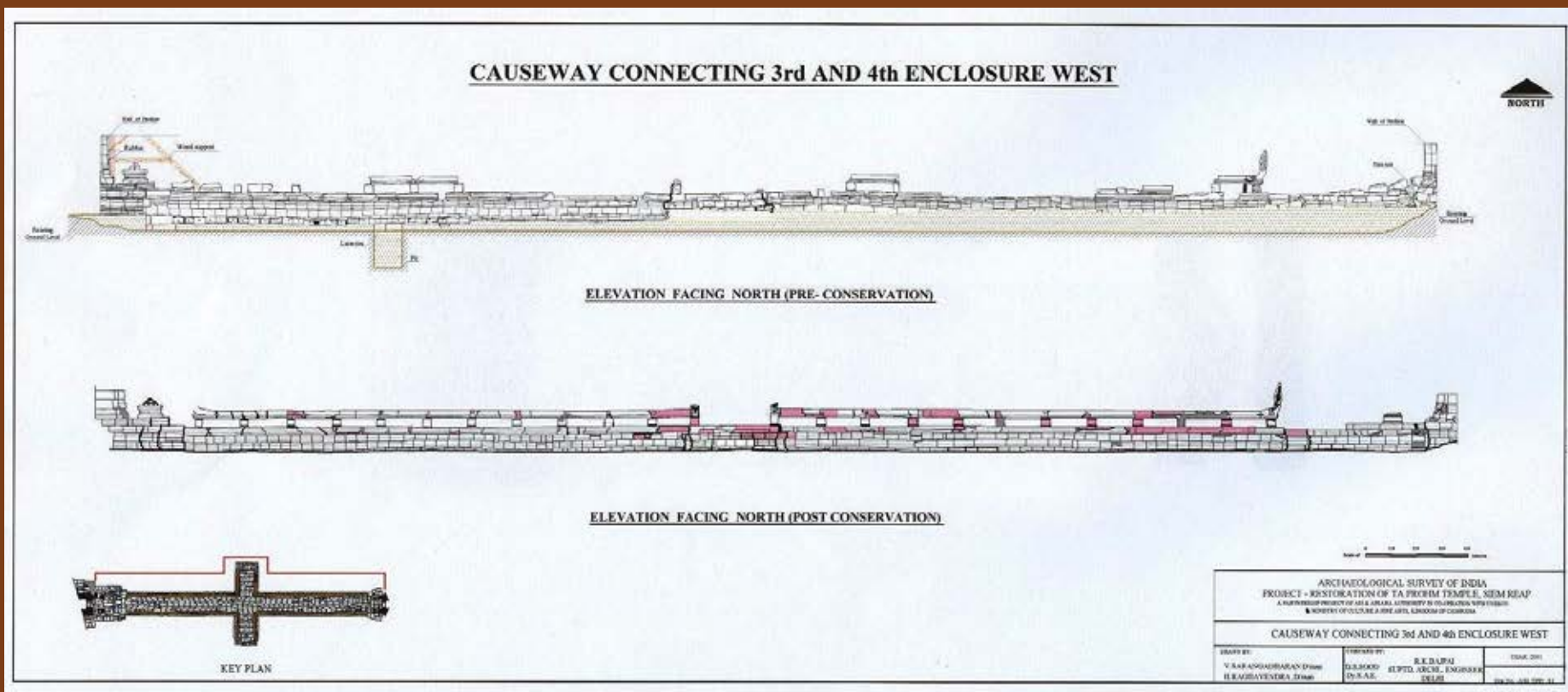


After Conservation

Causeway connecting 3rd and 4th Enclosure West



Causeway connecting 3rd and 4th Enclosure West



Causeway connecting 3rd and 4th Enclosure West



Conservation and Restoration of Ta Prohm Temple, Siem Reap, Cambodia



Pre-Conservation



During Conservation



After Conservation

Entrance Gopurum of 4th Enclosure West

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Pre-Conservation



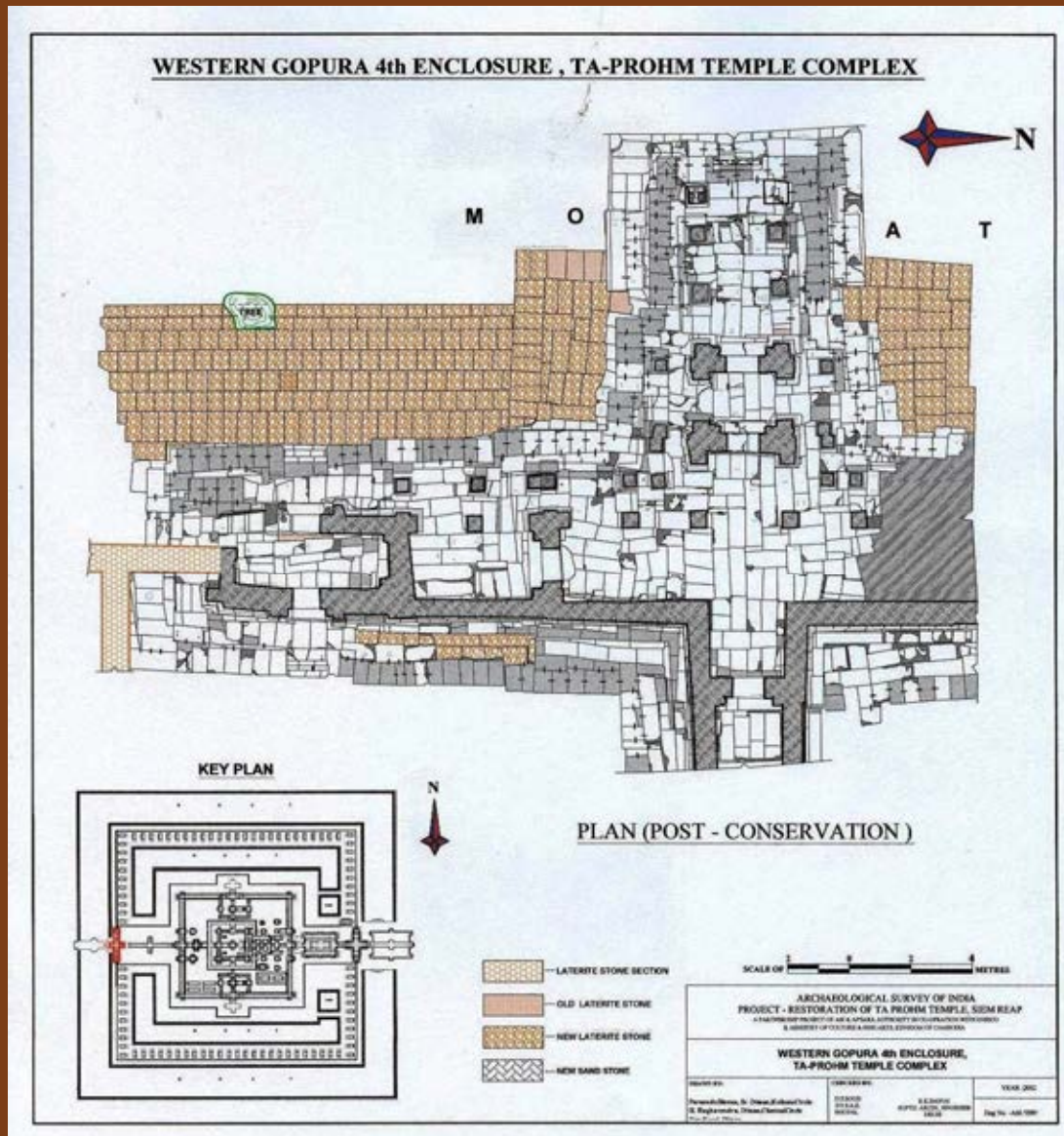
During Conservation



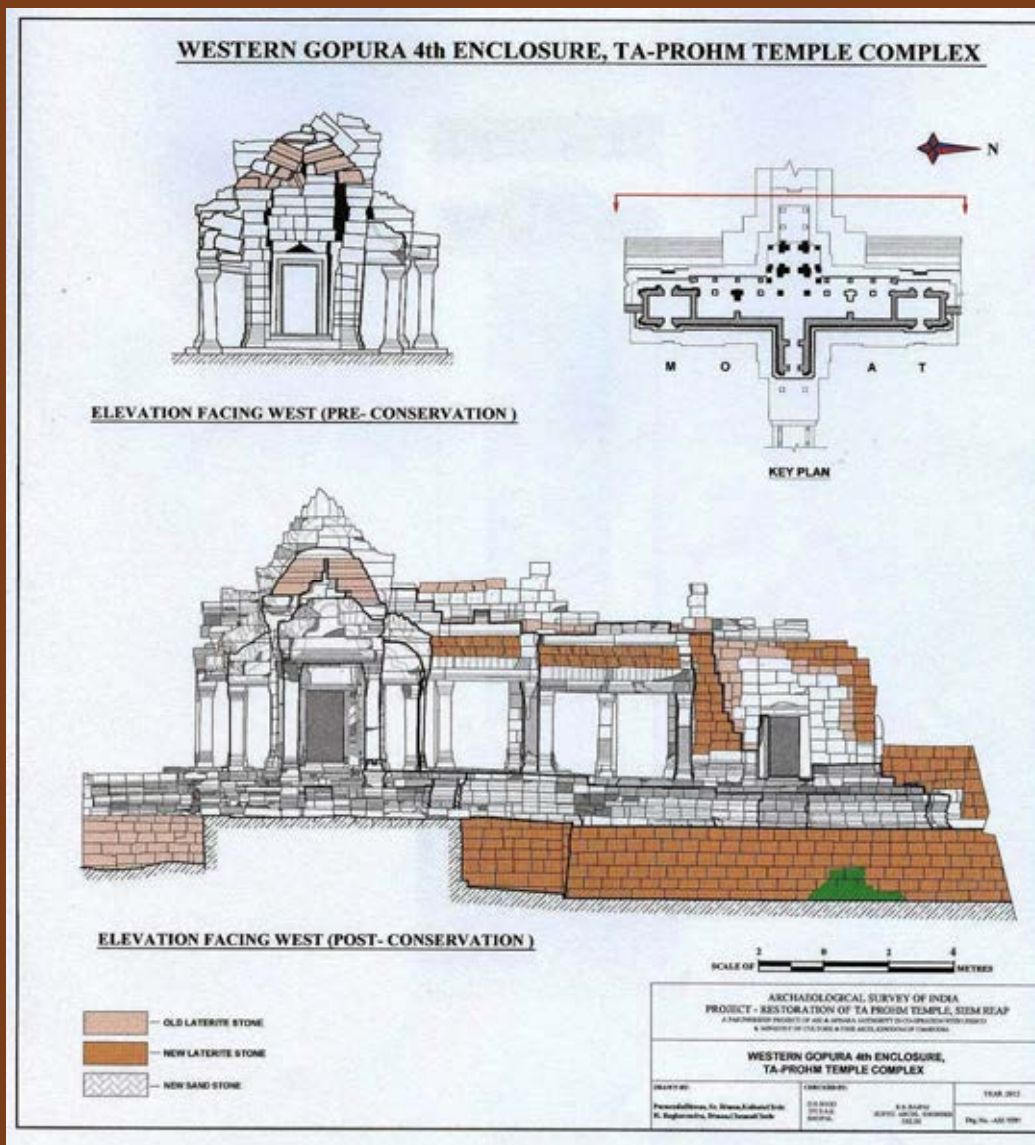
**After
Conservation**

Entrance Gopurum of 4th Enclosure West

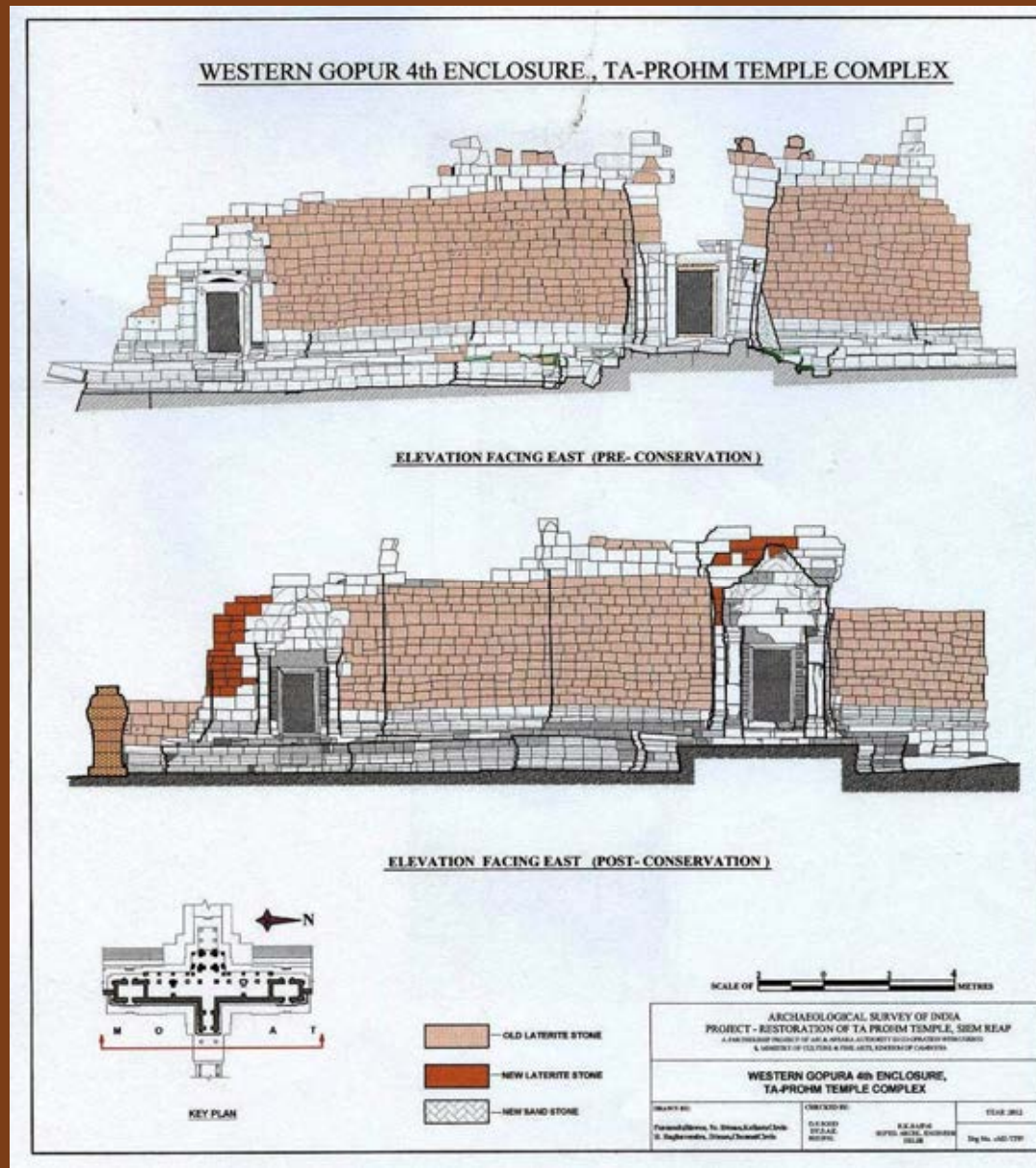
Archaeological Survey of India



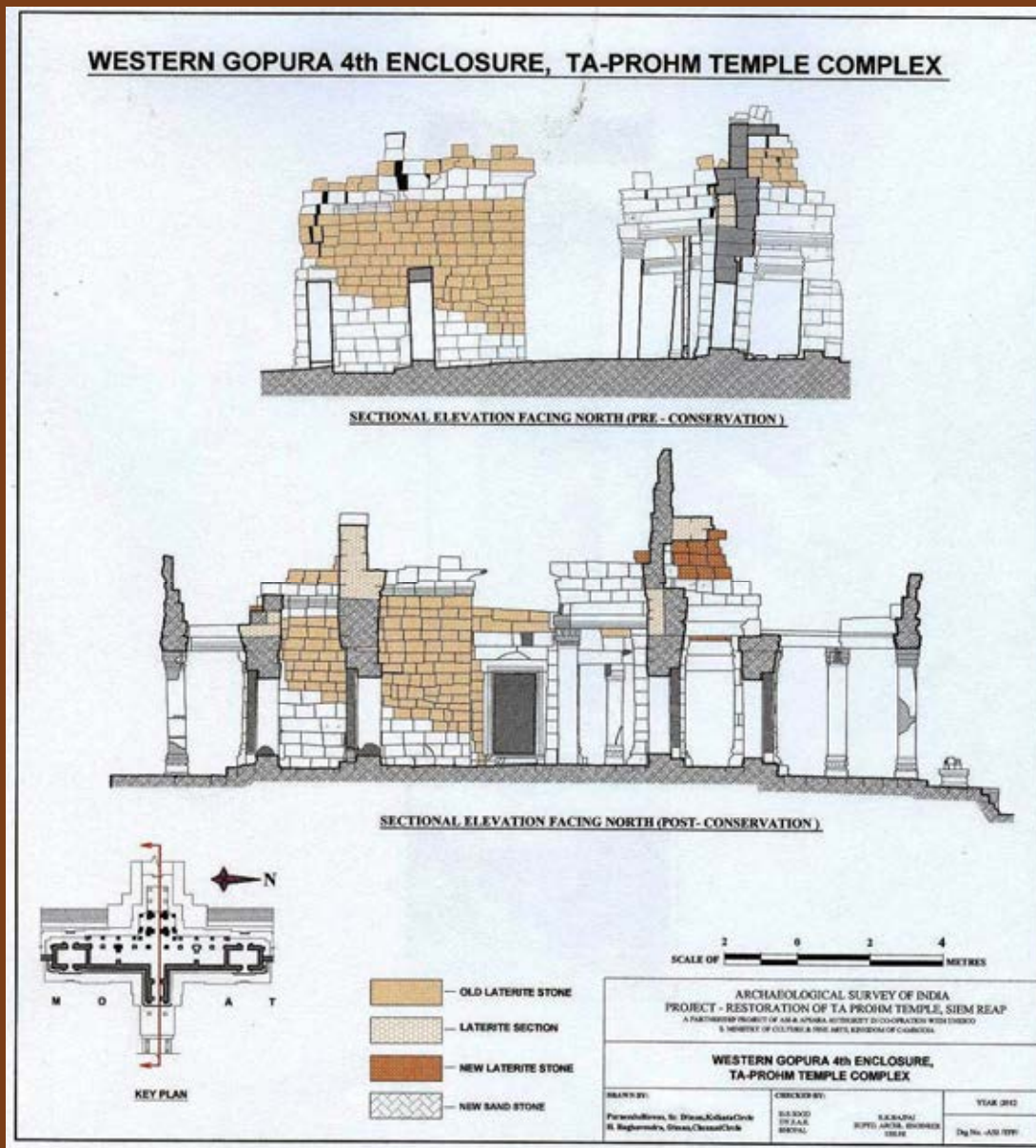
Entrance Gopurum of 4th Enclosure West



Entrance Gopurum of 4th Enclosure West



Entrance Gopura of 4th Enclosure West



Entrance Gopura of 4th Enclosure West



Pre
Conservation



During
Conservation



After
Conservation

Laterite Enclosure Wall - Entrance Gopurum of 5th Enclosure West

Reinforcement of central axis Tower (Location no.3)

Conservation and Restoration of Ta Prohm Temple, Siem Reap, Cambodia , Archaeological Survey of India



Before



During



After

Tower along central axis (Location no.3)

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Before



During



After

Tower along central axis (Location no.3)



BEFORE

**ENTRANCE GOPURA OF
5th ENCLOSURE (WEST)**



DURING



AFTER

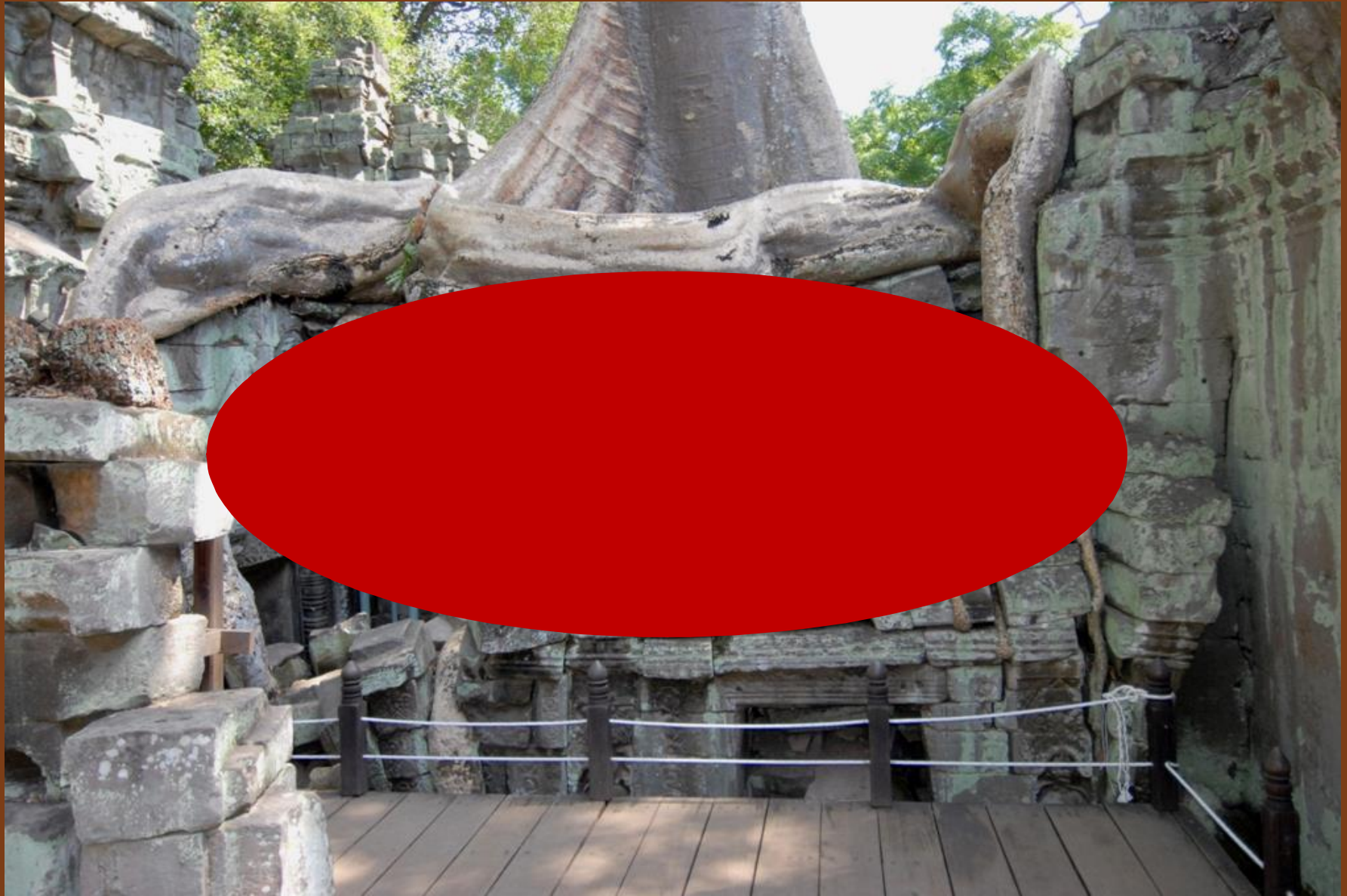


Conservation and Restoration of Ta Prohm Temple, Siem Reap, Cambodia



GOPURA ON FIFTH ENCLOSURE (West), TA-PROHM, TEMPLE

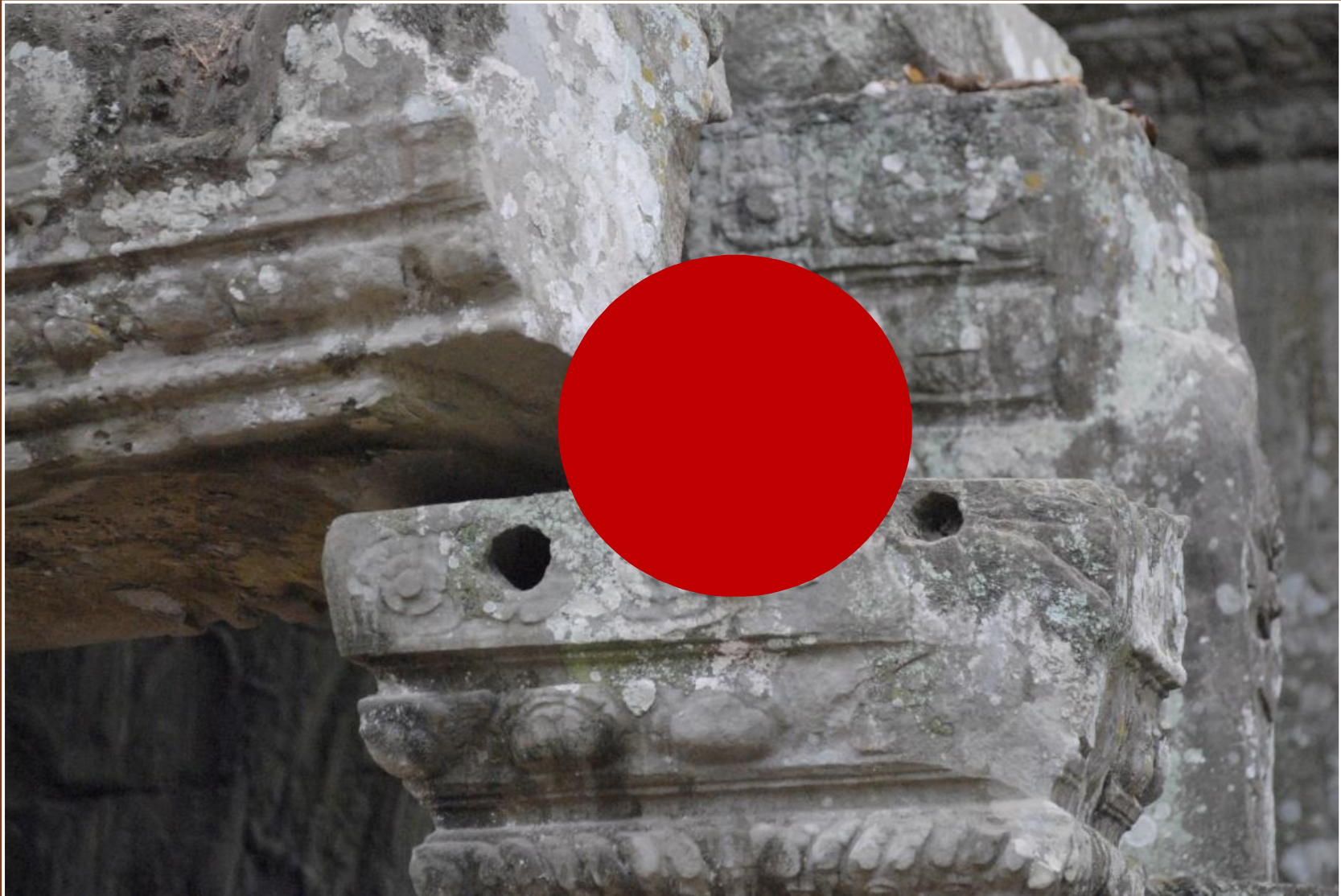
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Reversible supports

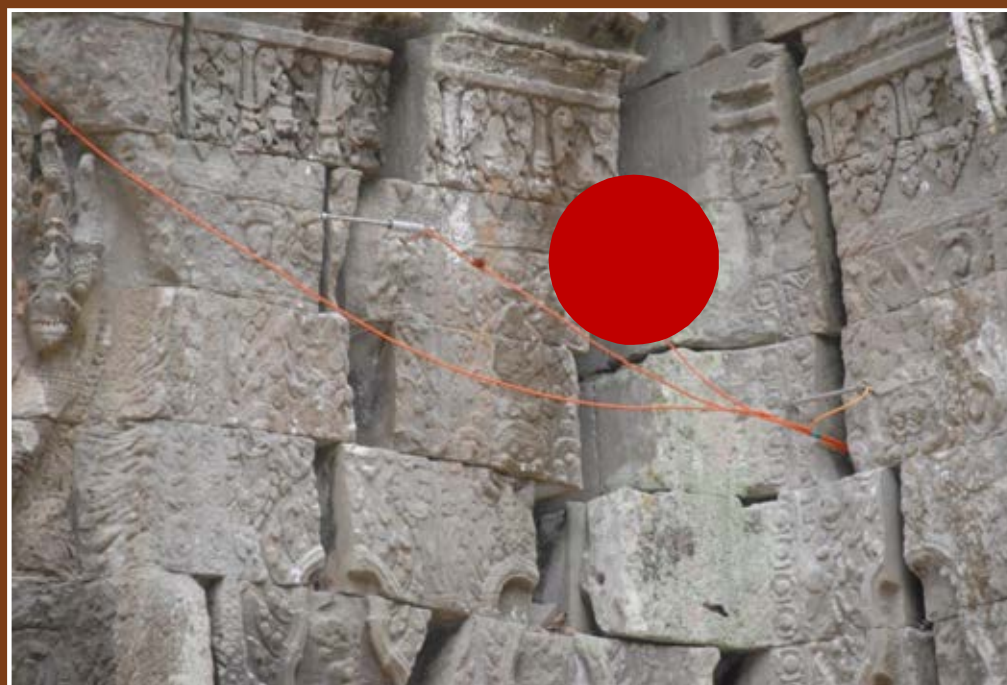


Conservation and Restoration of Ta Prohm Temple, Siem Reap, Cambodia



Tilt meters at 4 locations to monitor rate of inclination

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Crack meters installed at 4 location to determine rate of movement



Conservation and Restoration of Ta Prohm Temple, Siem Reap, Cambodia



Tree Support along with weather station

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Conservation and Restoration of Ta Prohm Temple, Siem Reap, Cambodia



Wooden Walkways

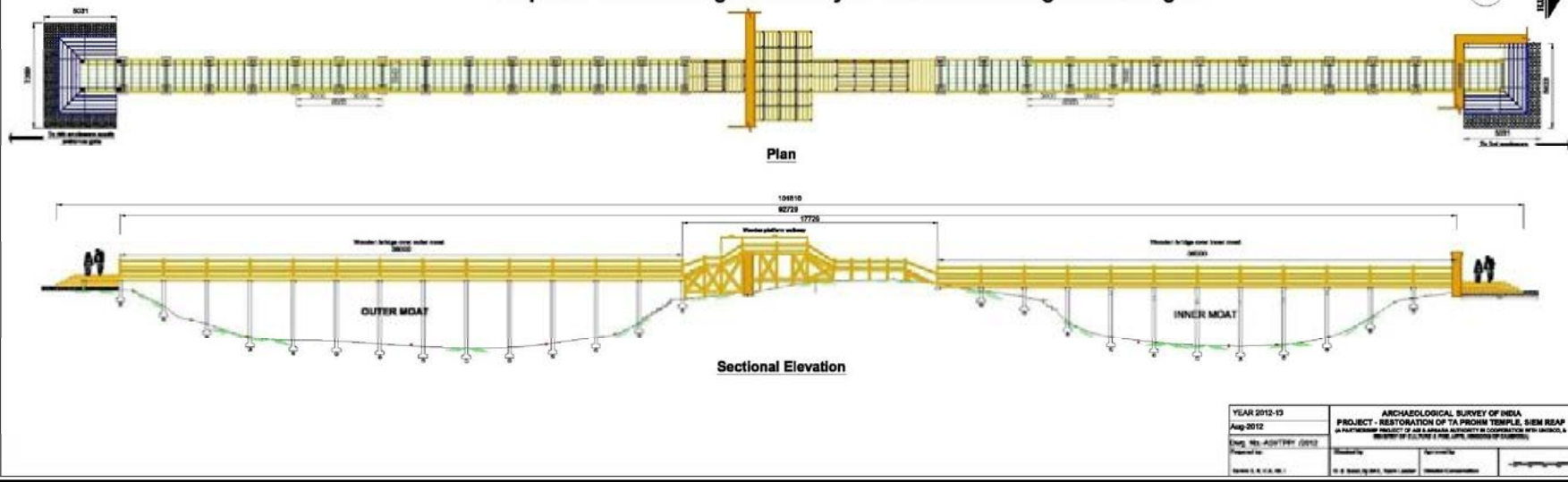
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Conservation and Restoration of Ta Prohm Temple, Siem Reap, Cambodia



Proposed wooden bridge & walkway for tourist exit through southern gate

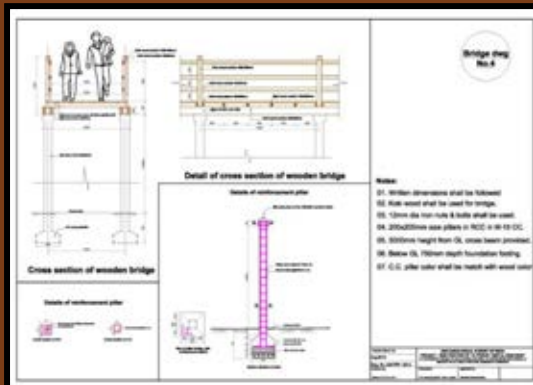


Before



During

Construction of bye pass bridge for exit from south



Construction of bye pass bridge for exit from south



Conservation and Restoration of Ta Prohm Temple, Siem Reap, Cambodia

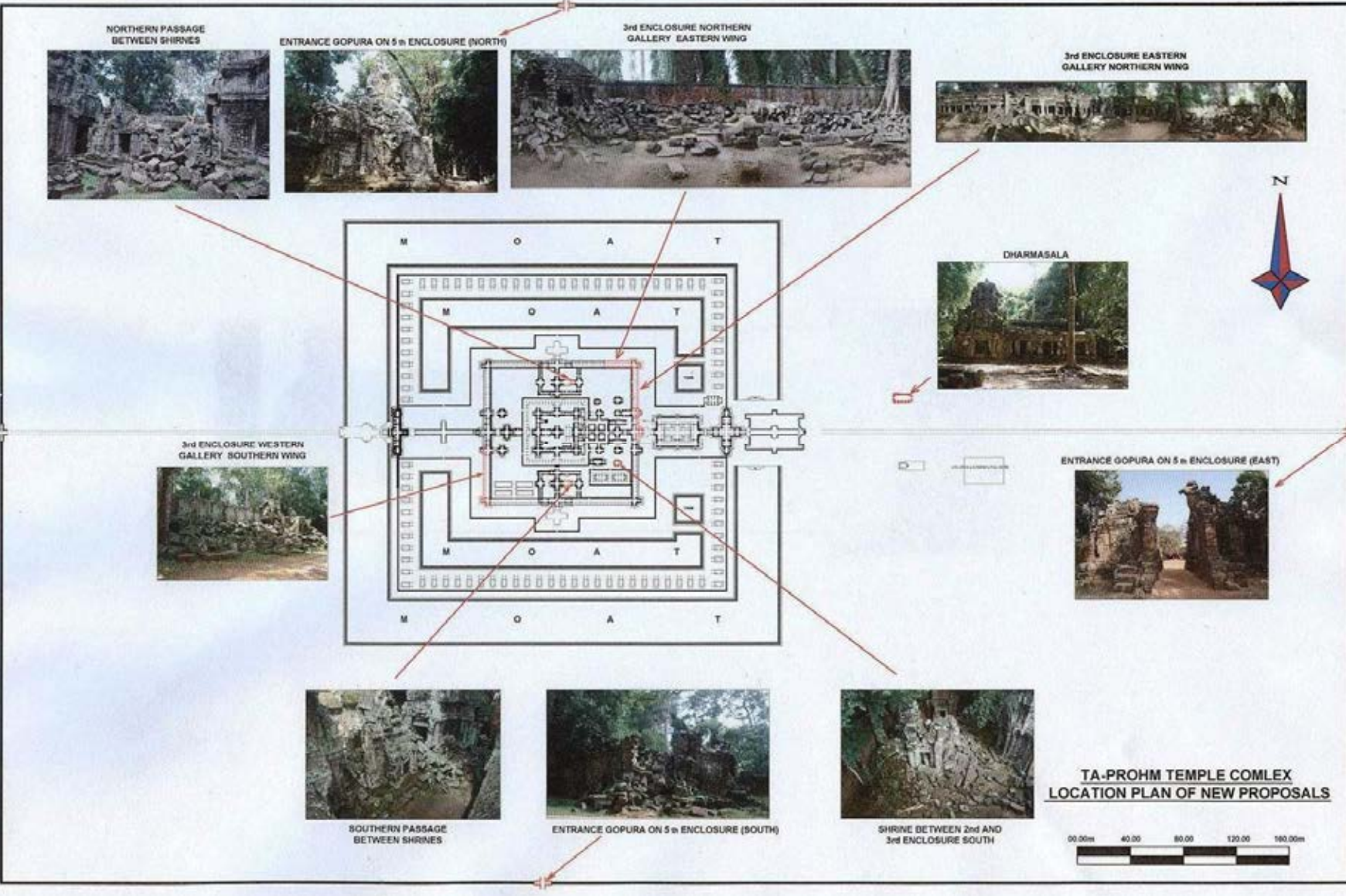


FIELD WORKER (ASI), TA-PROHM, TEMPLE
Archaeological Survey of India

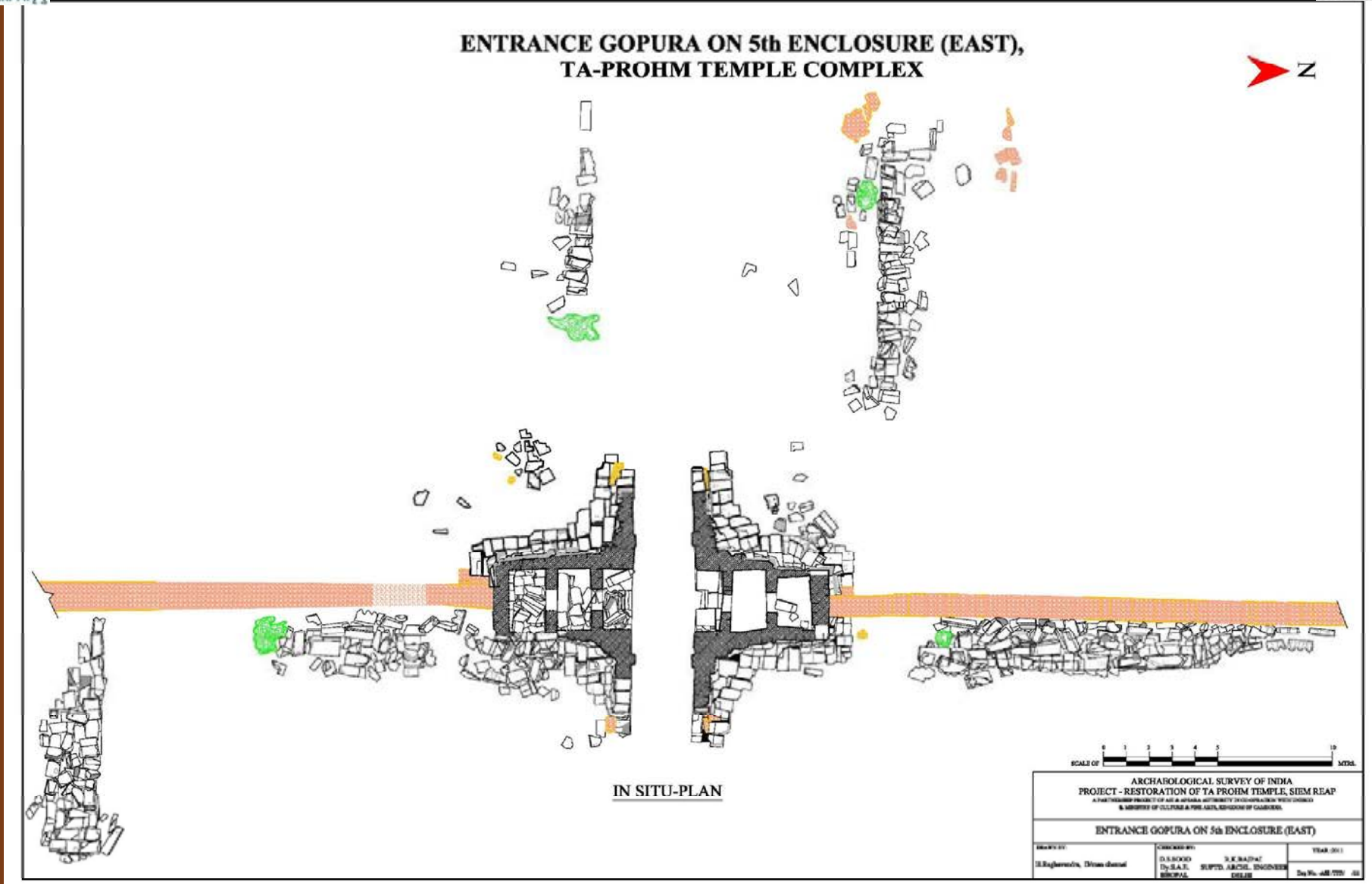


**Future Conservation
Works to be undertaken by ASI
(Phase III)**

Conservation and Restoration of Ta Prohm Temple, Siem Reap, Cambodia , Archaeological Survey of India

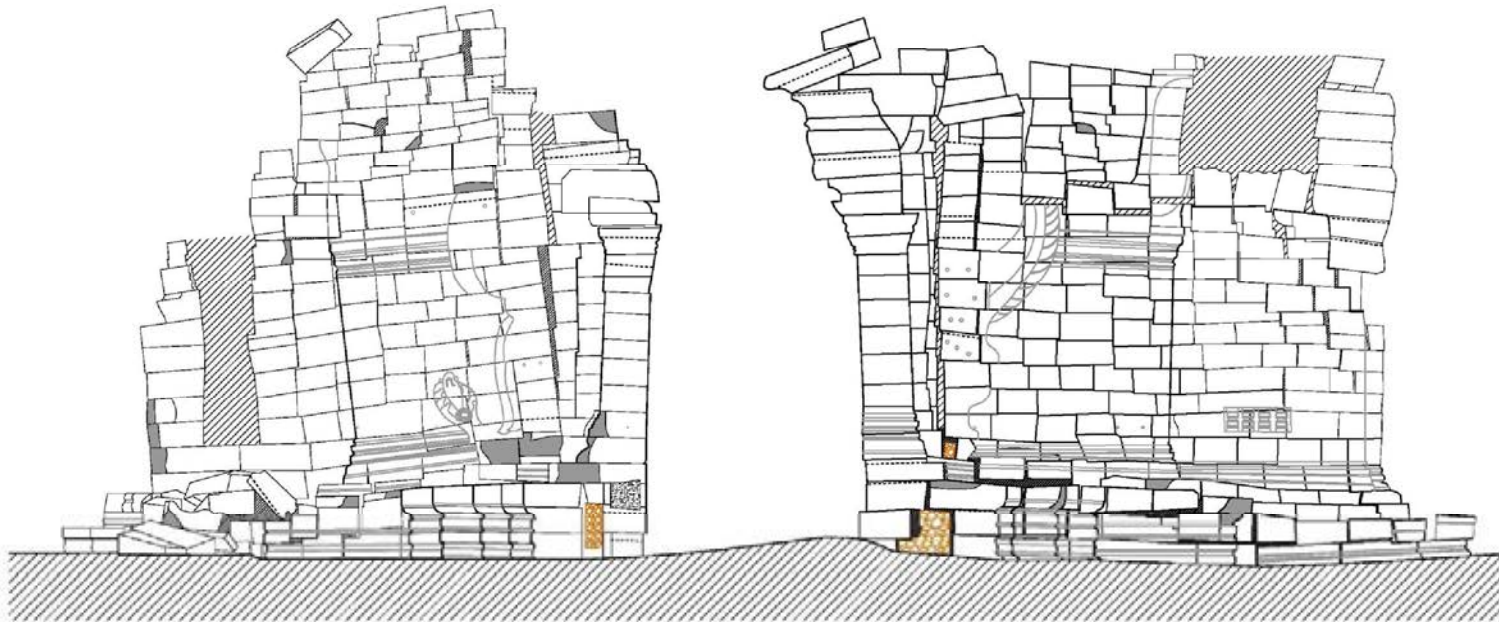


Ta Prohm Temple – Location plan of new proposals



Plan of Eastern Gate
Archaeological Survey of India

ENTRANCE GOPURA ON 5th ENCLOSURE (EAST), TA-PROHM TEMPLE COMPLEX

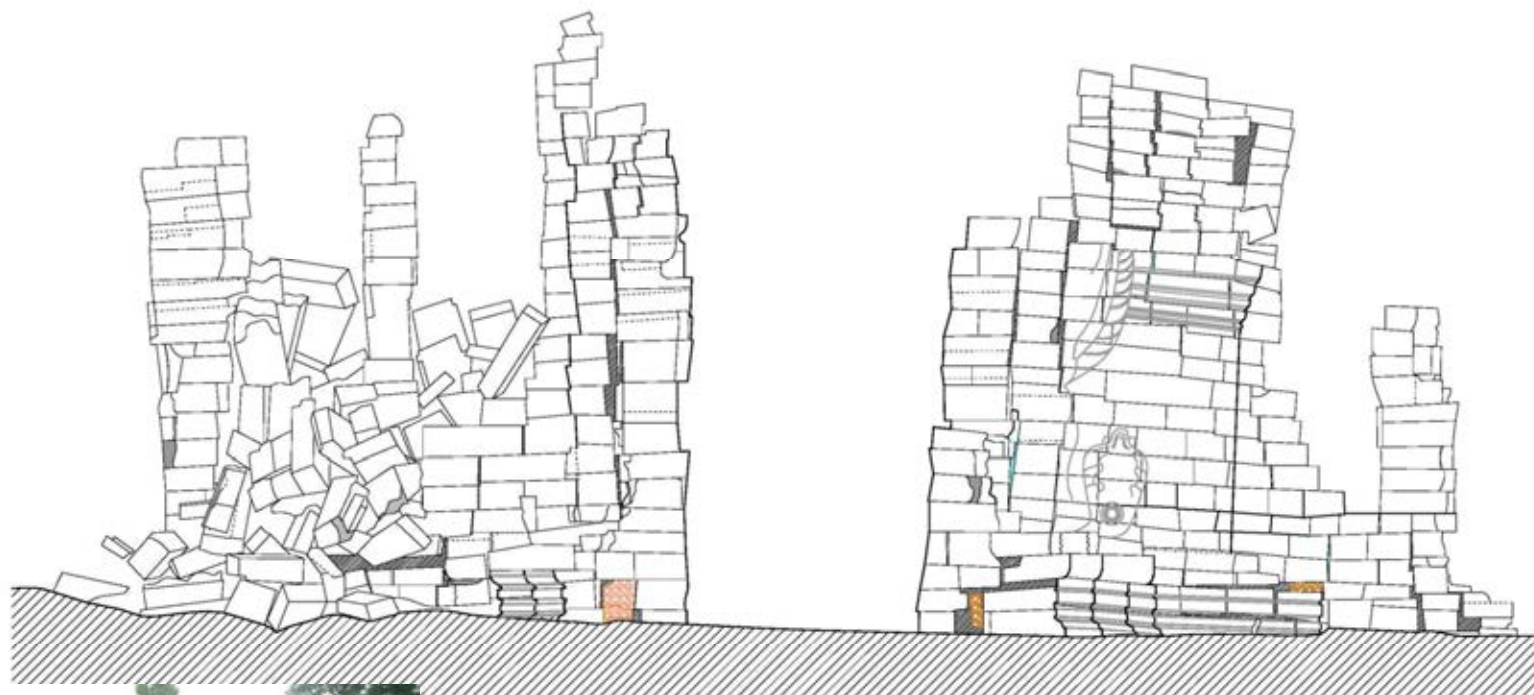


EXISTING ELEVATION FACING WEST

SCALE OF 1:0 0.5 0 1.0 2.0 M

ARCHAEOLOGICAL SURVEY OF INDIA PROJECT - RESTORATION OF TA PROHM TEMPLE, SIEM REAP <small>A PARTNERED PROJECT OF ASI & APSARA AUTHORITY IN CO-OPERATION WITH UNESCO & MINISTRY OF CULTURE & FOLK ARTS, KINGDOM OF CAMBODIA</small>			
ENTRANCE GOPURA ON 5th ENCLOSURE (EAST)			
DRAWN BY: T. Raghavendra, Dhan Chomal	CHECKED BY: D.S. SOOD Dy. S.A.E. THROPAL.	R.K. BAJAJ SUPTD. ARCHT. ENGINEER DELHI	YEAR 2011 Dig No. ASI/779/ 11

ENTRANCE GOPURA ON 5th ENCLOSURE, (EAST), TA-PROHM TEMPLE COMPLEX



EXISTING ELEVATION FACING EAST



SCALE OF 1:0 0.5 1.0 2.0 M

ARCHAEOLOGICAL SURVEY OF INDIA PROJECT - RESTORATION OF TA PROHM TEMPLE, SIEM REAP <small>A PARTNERSHIP PROJECT OF ASI & APSARA AGENCY IN CO-OPERATION WITH UNESCO & MINISTRY OF CULTURE & THE ARTS, KINGDOM OF CAMBODIA</small>		
ENTRANCE GOPURA ON 5th ENCLOSURE (EAST)		
<small>DRAWN BY:</small> H. Rajaguru, D. Das, Chenni Chakr	<small>CHECKED BY:</small> D. S. NOKO DR. S. A. S. SUPD. ARCHT. ENGINEER DISCIPL.	<small>YEAR 2011</small> Dis. No. - ASI/PSM /11

ENTRANCE GOPURA ON 5TH ENCLOSURE (EAST) TA-PROHM TEMPLE COMPLEX.



CONJECTURAL ELEVATION

ANTI-ARCHEOLOGICAL SURVEY OF INDIA PROJECT: CONSERVATION AND RESTORATION OF TA-PROHM TEMPLE, SIEM REAP 4. ARCHITECTURAL DRAWINGS: CONJECTURAL ELEVATION OF EAST GATE ENCLOSURE		
CONJECTURAL ELEVATION OF EAST GATE ENCLOSURE		
DATE	SCALE	NO.
15/05/2018	1:100	101

Conjectural Elevation of East Gate

ENTRANCE GOPURA OF 5th ENCLOSURE , SOUTH , TA-PROHM TEMPLE COMPLEX



EXISTING ELEVATION FACING SOUTH



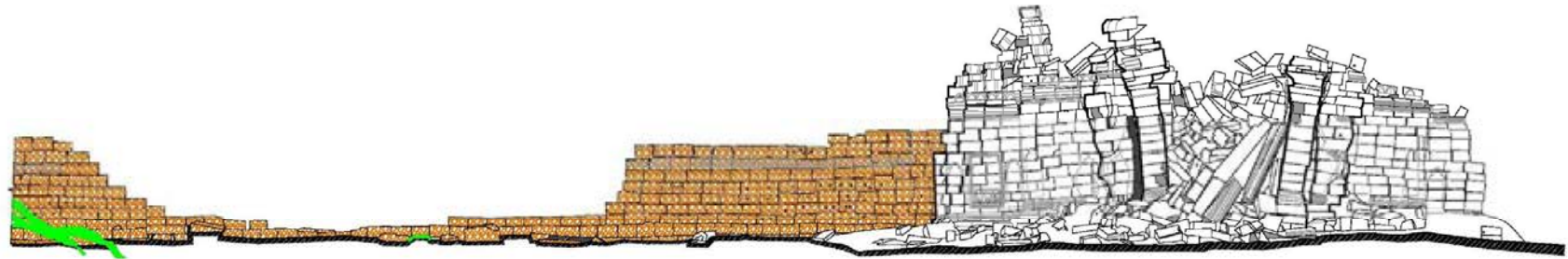
EXISTING TOP PLAN

ARCHAEOLOGICAL SURVEY OF INDIA PROJECT - RESTORATION OF TA PROHM TEMPLE, SIEM REAP <small>A PARTNERSHIP PROJECT OF ASI & APSARA AUTHORITY IN CO-OPERATION WITH UNESCO & MINISTRY OF CULTURE & THE ARTS, KINGDOM OF CAMBODIA</small>			
ENTRANCE GOPURA OF 5th ENCLOSURE , SOUTH			
DRAWN BY: NISHU SRIKUMARAYYA SURVEYOR Gr. - I BHOPAL	CHECKED BY: S. K. SARKAR BHOPAL	S. K. SARKAR SENIOR ARCHT. ENGINEER NEW DELHI	YEAR: 2011 Dwg. No. ASI/TSP / 11



South Gate (facing South)

ENTRANCE GOPURA OF 5th ENCLOSURE, SOUTH, TA-PROHM TEMPLE COMPLEX



EXISTING ELEVATION FACING NORTH

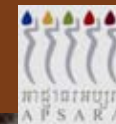
ARCHAEOLOGICAL SURVEY OF INDIA		
PROJECT - RESTORATION OF TA PROHM TEMPLE, SIEM REAP		
A MEMORABLE MONUMENT OF AN ANCIENT CIVILIZATION IN THE HISTORY OF INDIA		
A MONUMENT OF CULTURE AS PER THE CONVENTION OF 1972		
ENTRANCE GOPURA OF 5th ENCLOSURE, SOUTH		
SCALE: 1:100	DATE: 2011	NO. 100
DRAWN BY: S. K. SINGH	DATE: 2011	NO. 100
CHECKED BY: S. K. SINGH	DATE: 2011	NO. 100
APPROVED BY: S. K. SINGH	DATE: 2011	NO. 100



South Gate - facing North



Conservation and Restoration of Ta Prohm Temple, Siem Reap, Cambodia



Thank you for kind attention....

Archaeological Survey of India