

Annex D: Technical Drawings of Project Infrastructure

The design of the Nam Theun 2 Project infrastructure is the result of work conducted by the Engineering and Construction Division of EDF and Montgomery Watson Harza.

Initial infrastructure design began in 1995. Since then the infrastructure design has evolved through the various stages of Process Design, Concept Design and Basic Design. The Basic Design evolved from the Concept Design, and was prepared, in late 2001 and early 2002, in the form of technical specifications, by the Nam Theun 2 Development Contractor (a joint venture between EDF and Montgomery Watson Harza) for use in the construction contract bid documents.

The Reference Design is the design basis for the detail design, manufacture, construction and commissioning of the project works, and is based on the final Owner's Requirements and the final Basic Design. It incorporates design changes from i) additional studies and field investigations providing information leading to a change to the Concept Design (e.g. for increased performance, reduced construction time and/or reduced cost); and ii) change recommendations, during the bid and bid evaluation process, which have then been adopted by NTPC.

During the Construction Phase, the Head Construction Contractor and the various sub-contractors will be required to use the Reference Design as the basis for completing the final detailed design for the Project works. The detailed design will be required to be con-

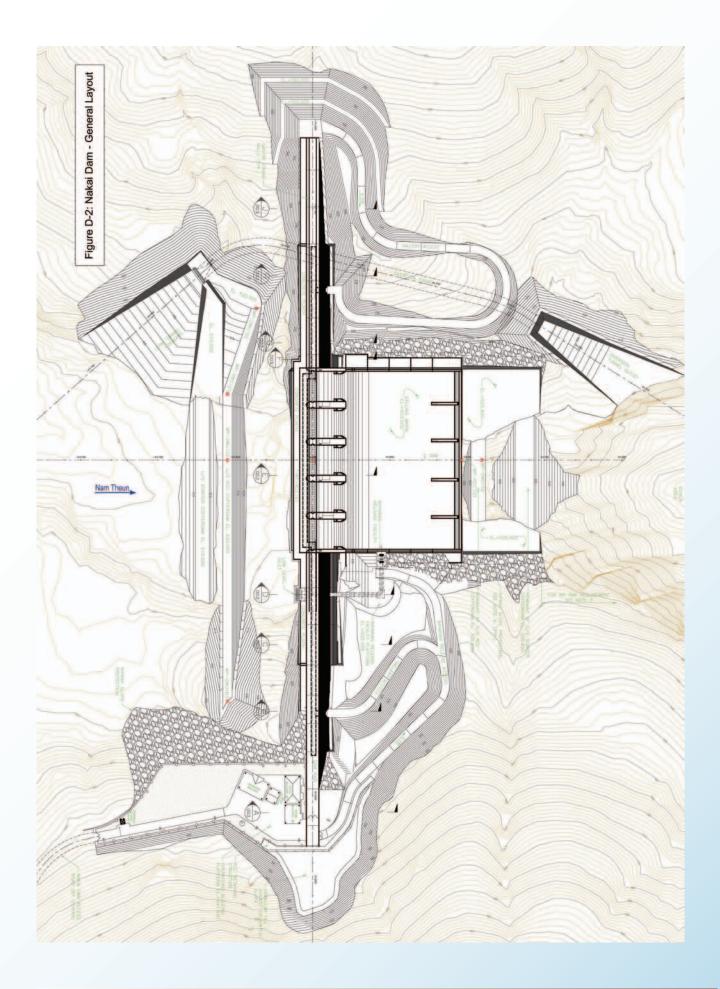
sistent with the Owner's Requirements and the Reference Design and will be subject to approval by NTPC and GOL.

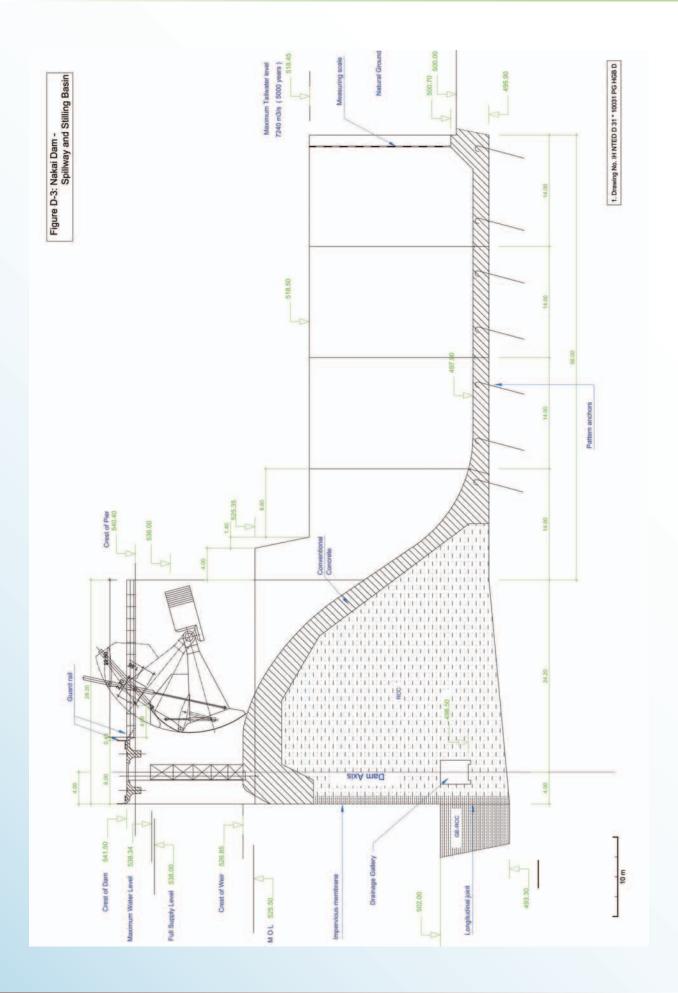
The following annex presents a selection of technical drawings from the Basic Design of key Project features. These drawings are only indicative of the final design and include:

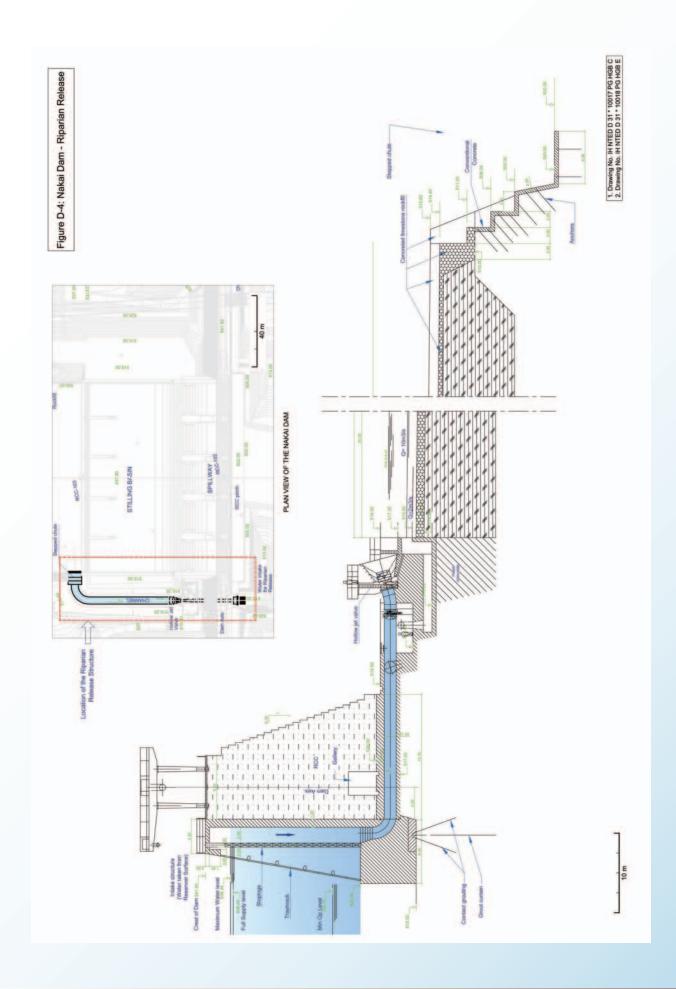
- 1. Nakai Dam: Diversion works
- 2. Nakai Dam: General layout
- 3. Nakai Dam: Spillway and stilling basin
- 4. Nakai Dam: Riparian release
- 5. Intake structure for the power station
- 6. Underground works
- 7. Power Station: General layout
- 8. Power Station: Cross-section
- 9. Regulating Dam: General layout
- 10. Regulating Dam: Nam Kathang release
- 11. Downstream Channel alignment and components
- 12. Downstream Channel: Ban Itak crossing
- 13. Downstream Channel: Nam Gnom Siphon
- 14. Downstream Channel: Aeration weir
- 15. Downstream Channel: Confluence with Xe Bang Fai
- 16. Transmission Line: Mekong Crossing

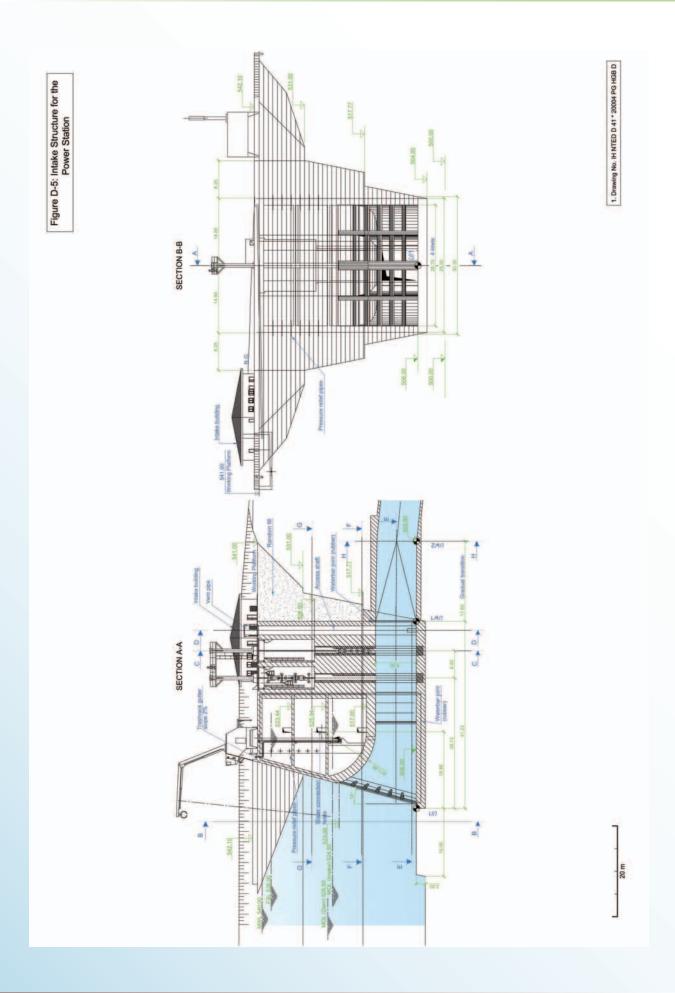
All dimensions and elevations indicated on the drawings are in meters.

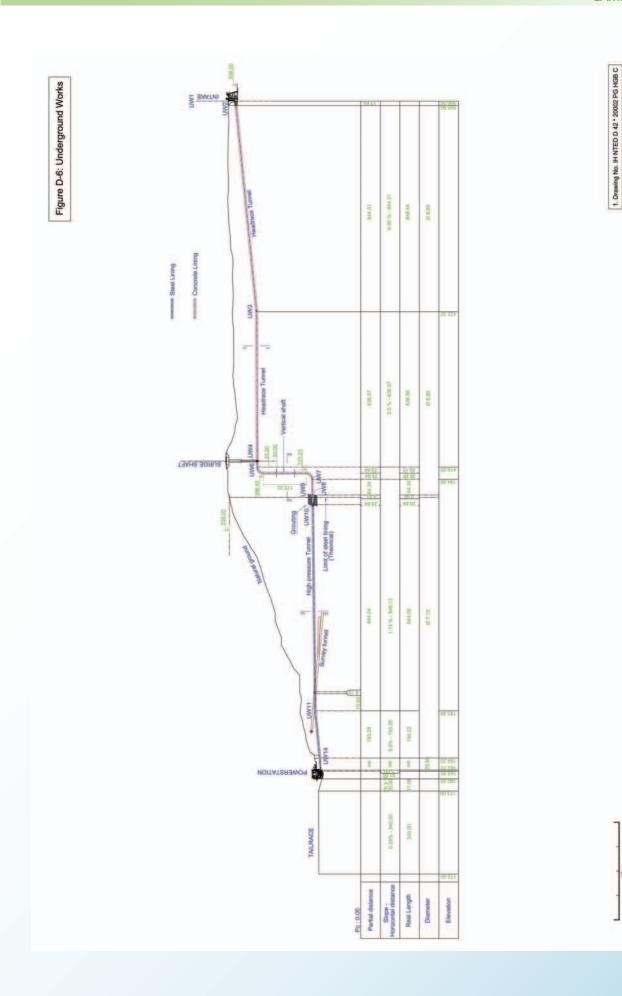


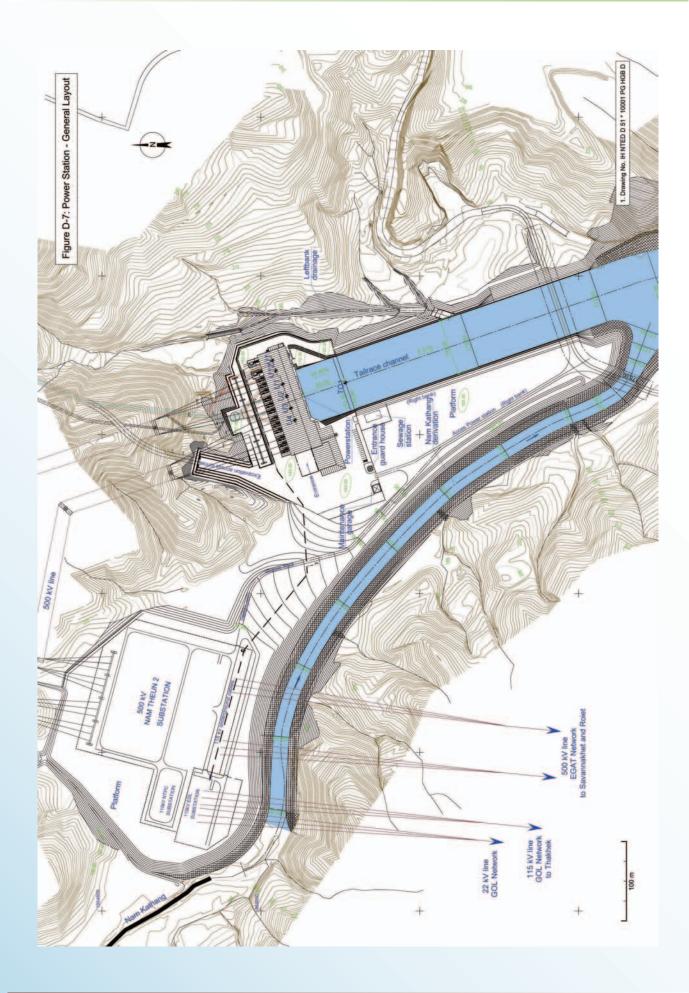


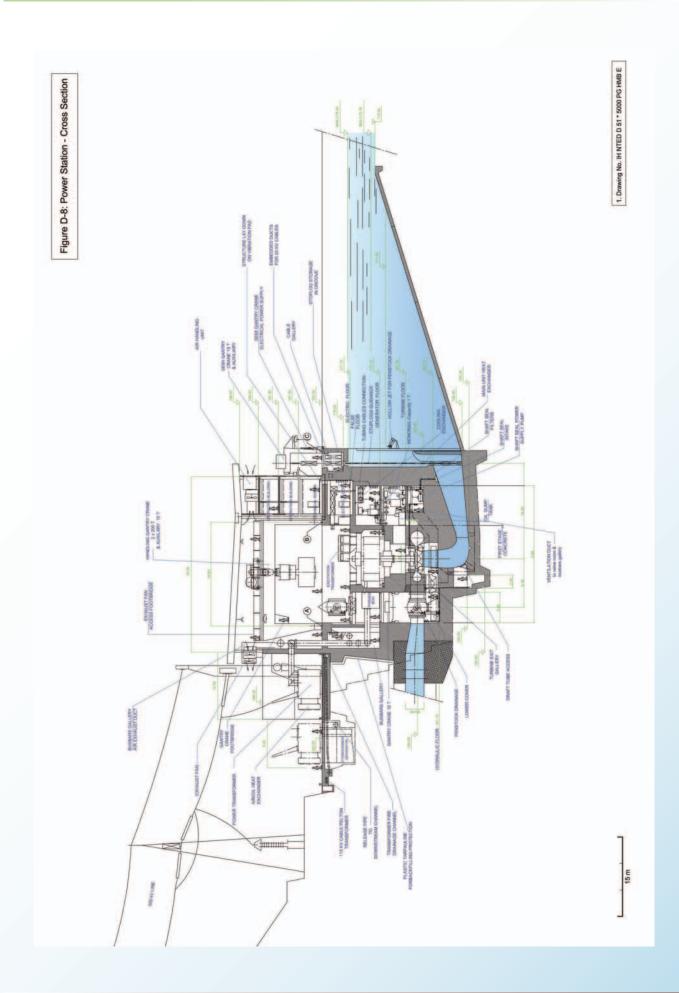


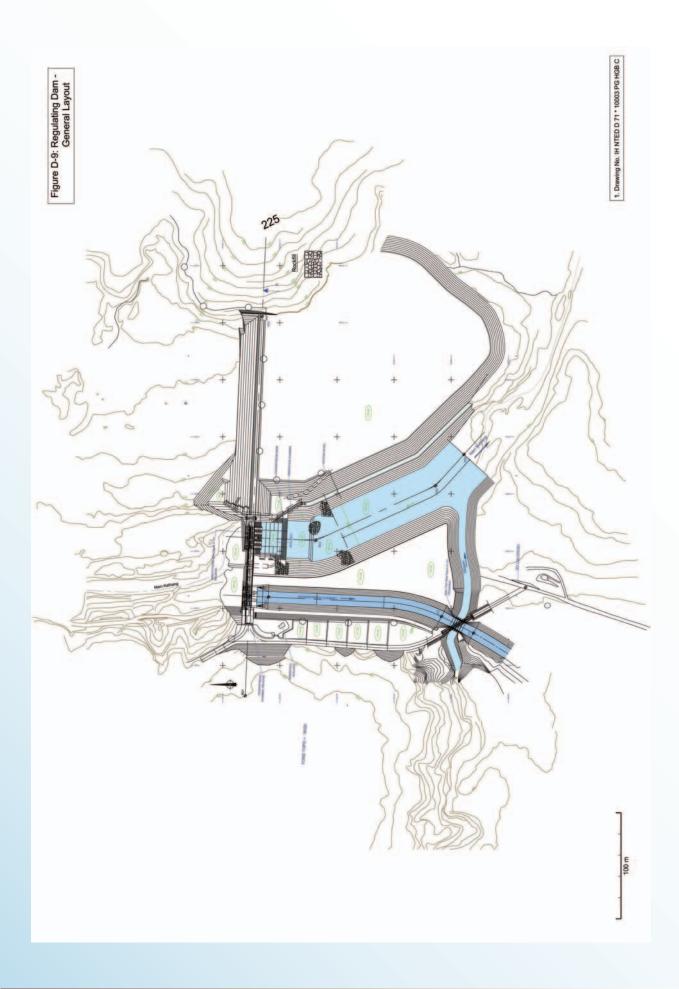


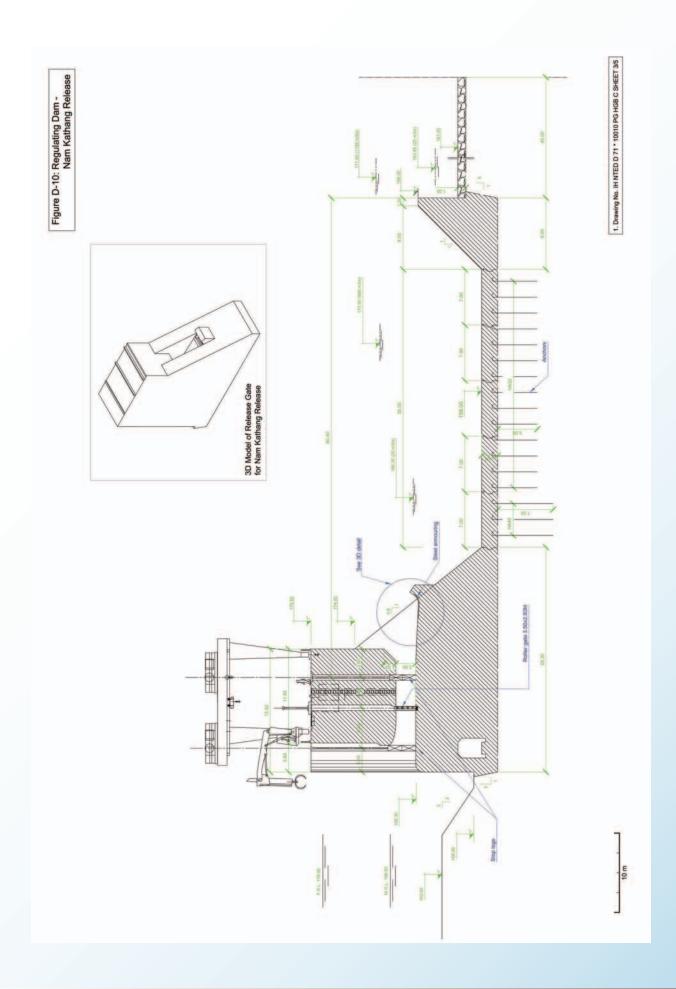


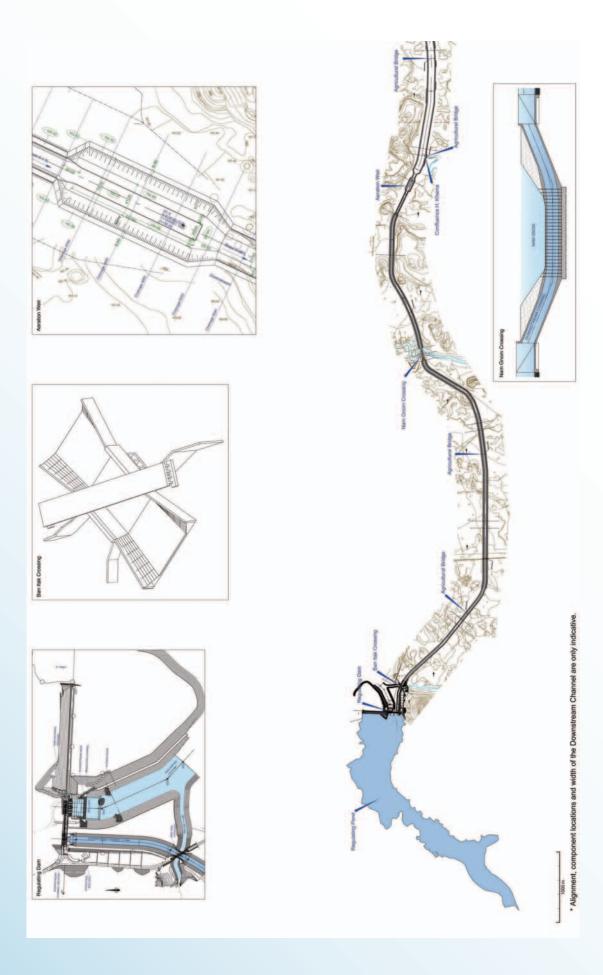


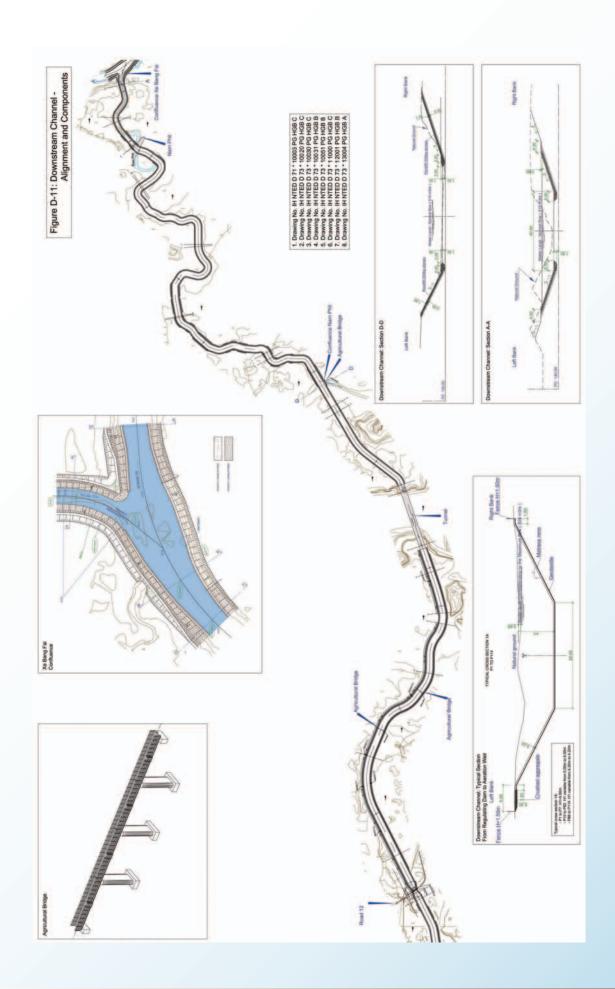


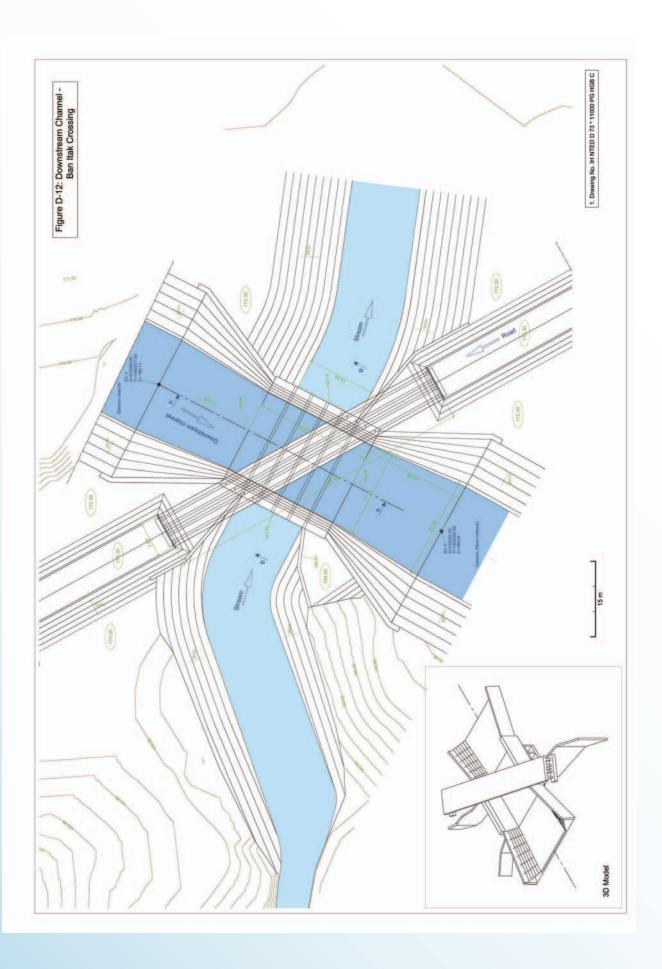


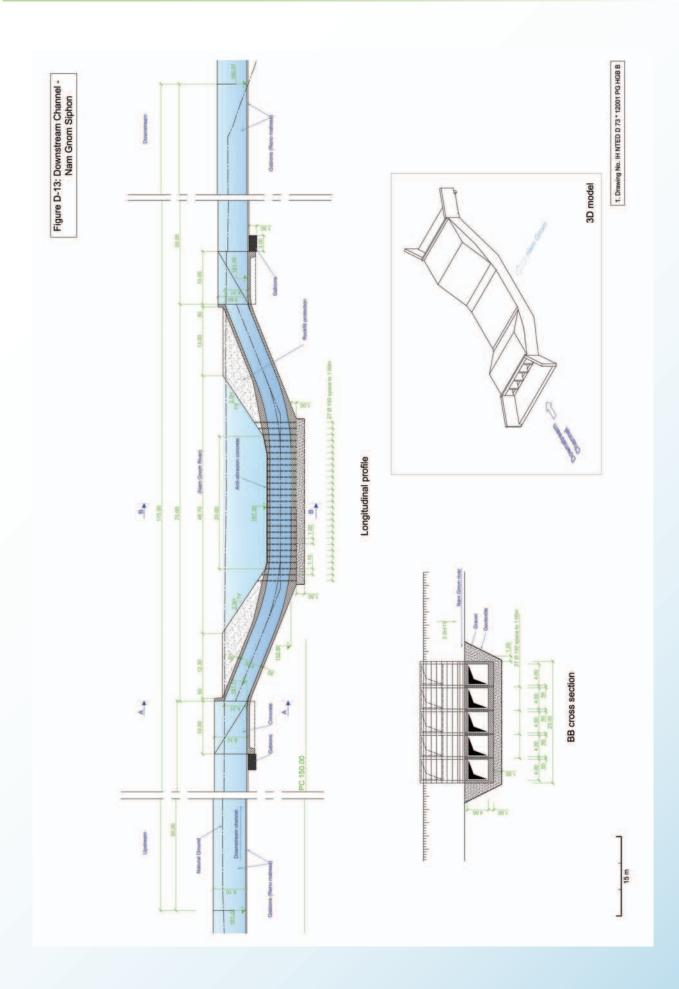




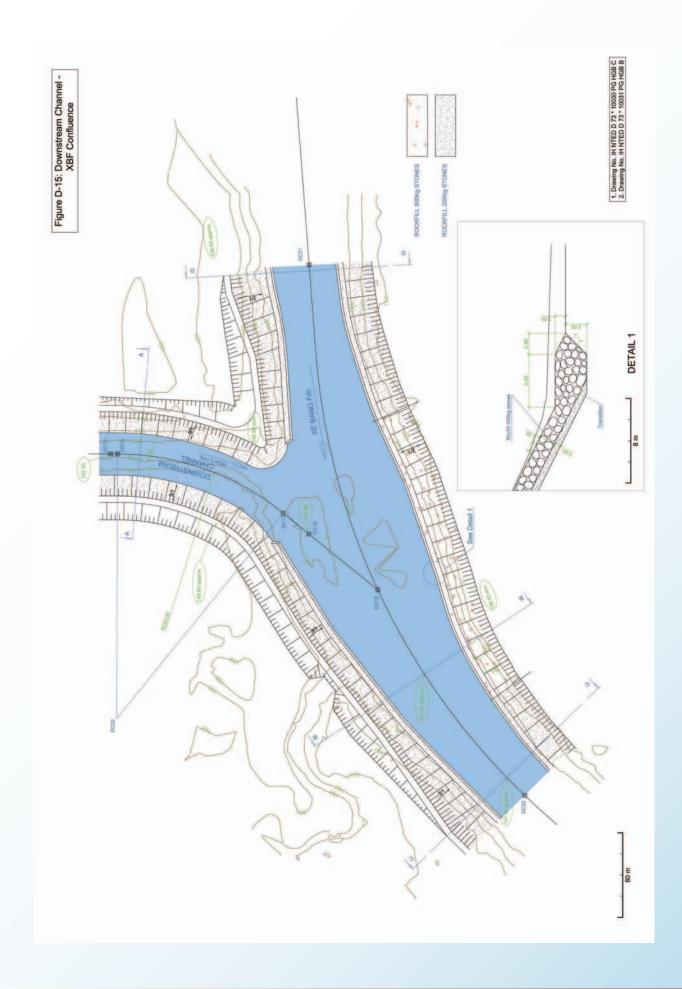


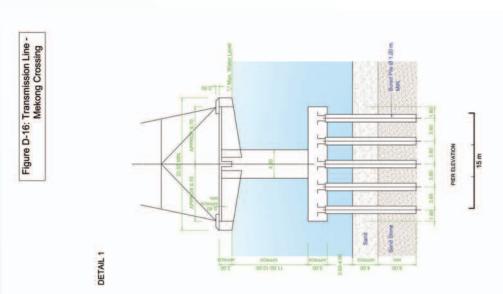


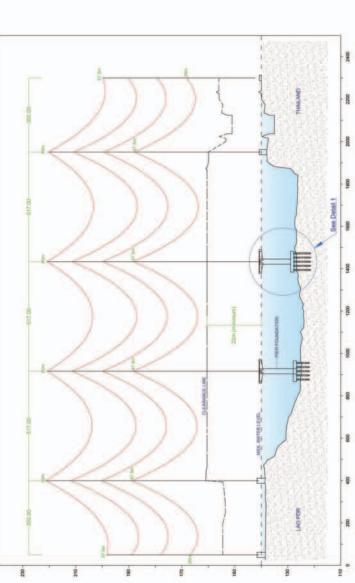












1. Drawing No. P3 NTED D 96 * 6863 PM RSE C 2. Drawing No. P3 NTED D 96 * 6864 PG RSE C