3D Model centered Engineering Development

3D MODEL

Project catalogues (Piping materials etc.)

Equipment Engineering drawings

Plot Plan

Equipment

Structures → Structures outline

P&IDs 1st issue → Main lines & manifolds

1st Model → Plot Plan IFD

IFD P&IDs → Lines >=4" & manifolds

First equipment vendor drawings → Equipment

Structural design → Structures

Handling studies → Handling area & equipment

E&I main cable routing → Main E&I cable trenches

Fire fighting system design → Fire water network &

2nd Piping MTO (partial)

2nd Model → Civil Area Drawings 1st issue (foundations)

IFC P&IDs → All lines & manifolds

Approved vendor drawings → Equipment, in-line instruments

Stress analysis & supports → Pipe supports

Civil Area Drawings 2nd issue (piping and sewage headers, cable trenches)

Piping isometric drawings → Piping MTO

3rd Model

Civil Area Drawings last issues (piping & sewer branches, pipe supports, cable sleeves, paving)

last piping isometric drawings → Final Piping MTO

Piping General Arrangement

Key

Activity

Modelling

Document

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