TYPICAL OIL+GAS FACILITY DESIGN

MULTI-DISCIPLINE ENGINEERING

Halker's experienced team of multi-discipline engineers and designers are the foundation to the success of every project we work on. We use industry standard software solutions to design, model, and simulate project operations to maximize efficiency and effectiveness from start to finish.

The results are real-world solutions; innovative, fit-for-purpose designs that are based on impactful business and production objectives for projects of all sizes.

2D DESIGN PACKAGE

TIER

IDEAL FOR SIMPLE PROJECTS WHERE A CONTRACTOR CAN CONSTRUCT A QUALITY FACILITY WITH MINIMAL OVERSIGHT.

3D DESIGN PACKAGE

TIER

IDEAL FOR PROJECTS WHERE OWNER / OPERATOR PREFERENCES CAN BE IMPLEMENTED IN THE FINAL PRODUCT.

DETAILED DESIGN PACKAGE



IDEAL FOR PROJECTS WHERE MAXIMIZING SHOP FABRICATION, PRE-PLANNING OR VENDOR BIDS CAN RESULT IN SUBSTANTIAL SAVINGS.

• DESIGN BASIS		
• PROCESS FLOW DIAGRAM (PFD)		
• PIPING & INSTRUMENTATION DIAGRAMS (P&IDs)		
• SITE LAYOUT		
• GENERAL PIPING PLAN		
• TVCS MEMO / 0000a		
\bigotimes	• 3D NAVISWORKS MODEL	
\bigotimes	• PIPE, VALVE & FITTING BILL OF MATERIALS	
igotimes	• PIPING PLANS, SECTIONS & SUPPORT PLAN	
igotimes	• MECHANICAL EQUIPMENT LIST	
igotimes	• FOUNDATION LOCATION PLAN	
igotimes	• 14 C SAFETY DEVICE OPTIMIZATION	
\bigotimes	• AREA CLASS DRAWINGS & API RP 500	
\bigotimes	• INSTRUMENT INDEX & IO LIST	
\bigotimes	• INSTRUMENT LOCATION PLAN	
igotimes	• ELECTRICAL LOCATION PLAN	
igotimes	• CABLE TRAYS & CABLE CONDUIT SCHEDULE	
igotimes	• ELECTRICAL LOAD LIST & ONE LINE DIAGRAMS	
igotimes		• PROCUREMENT SUPPORT& DATA SHEETS
igotimes		• AS-BUILT SUPPORT
\bigotimes		• CONSTRUCTION SPECIFICATIONS
\bigotimes	\bigotimes	• PIPE SUPPORT DETAILS
		• CAUSE & EFFECT DIAGRAM (C&E)
\bigotimes		• GROUNDING PLAN & INSTALLATION DETAILS
\bigotimes		• HEAT TRACE SCHEDULE
\bigotimes		• CONTROL SYSTEM PANEL & WIRING DIAGRAMS
		• ARC FLASH STUDY - NFPA 70e COMPLIANCE
lacksquare		• BID PACKAGE FOR CONSTRUCTION SUB SELECTION







