

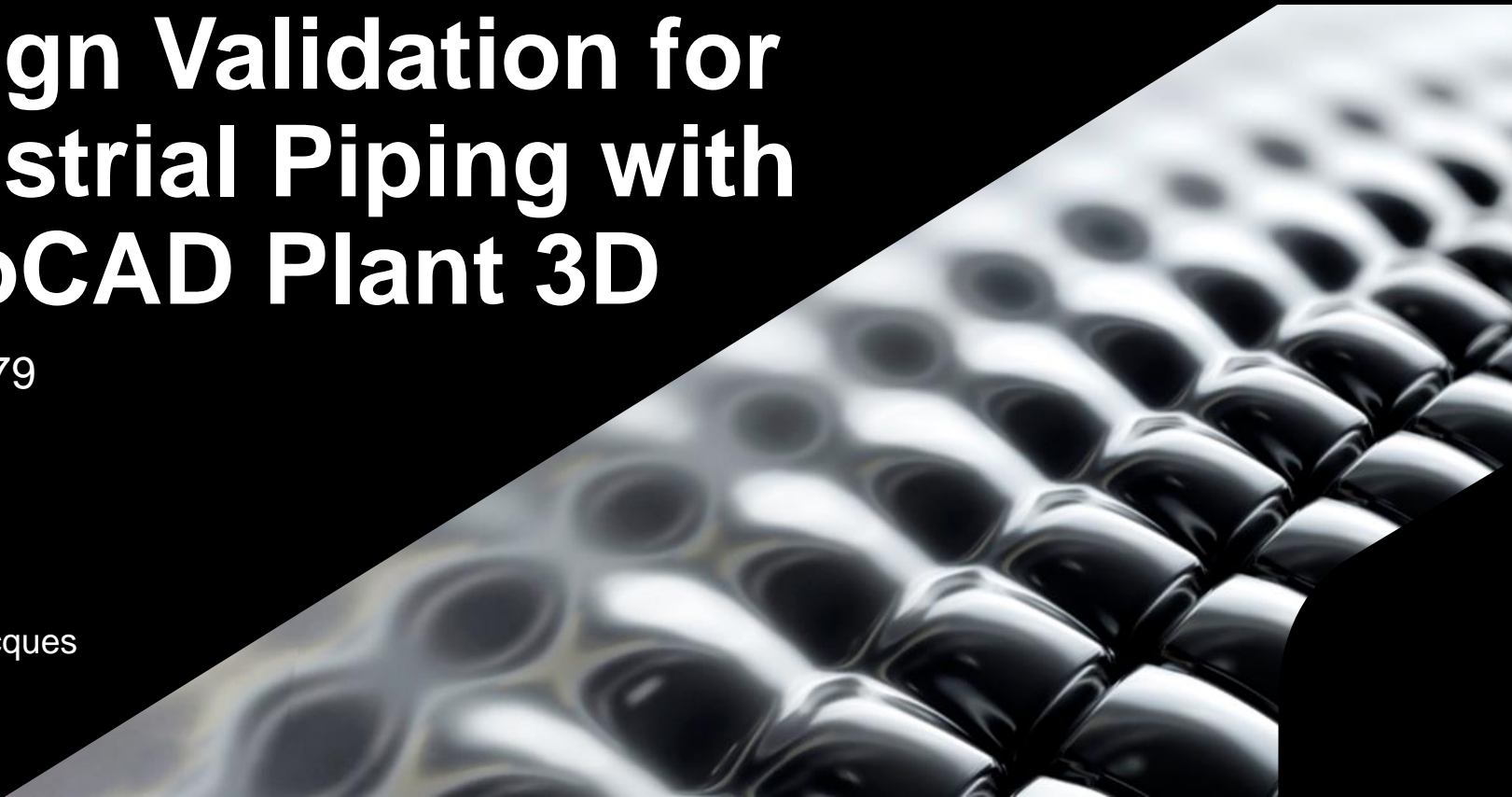


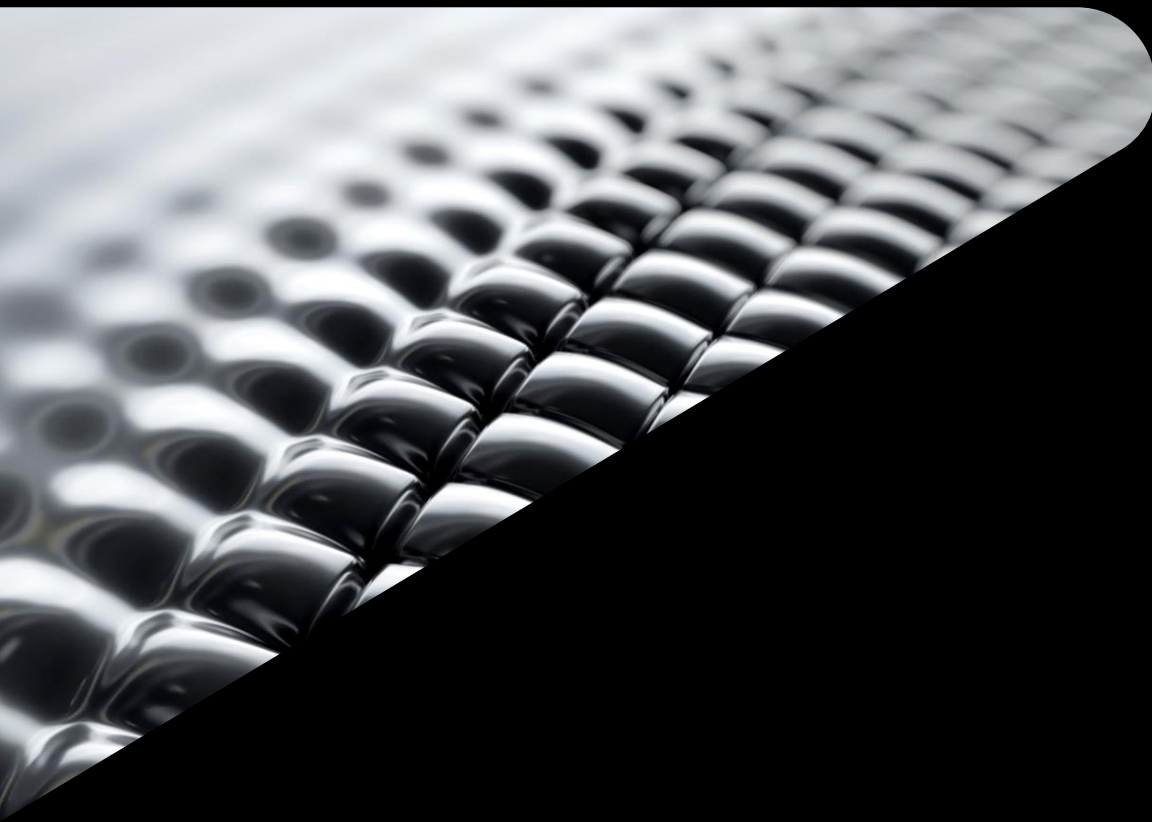
Design Validation for Industrial Piping with AutoCAD Plant 3D

ENR501579

David Wolfe
@_davewolfe

Corey St. Jacques



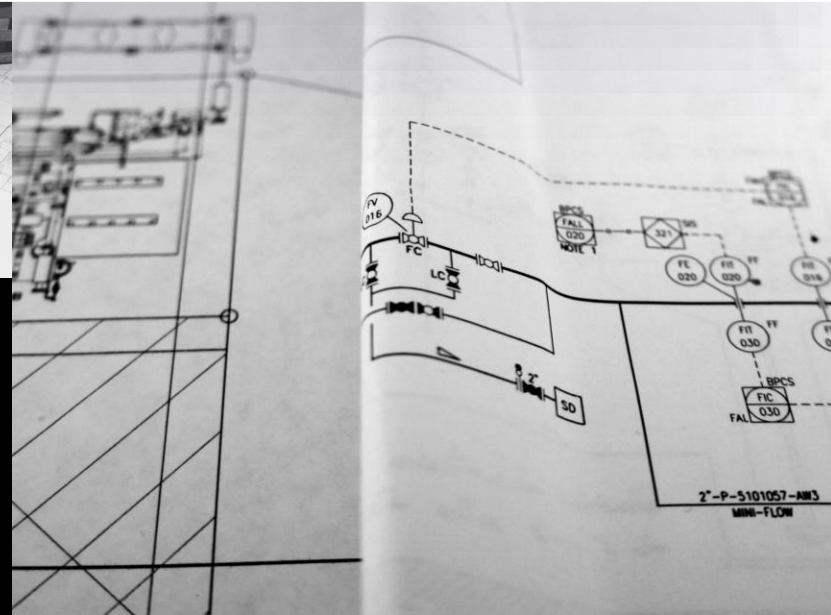


Product Overview



PROBLEM

Designers spend too much time manually checking paper documents or pdf files





1

**Shorter Design
Timelines**

Continuous Validation

2

**Identify Project
Risks**

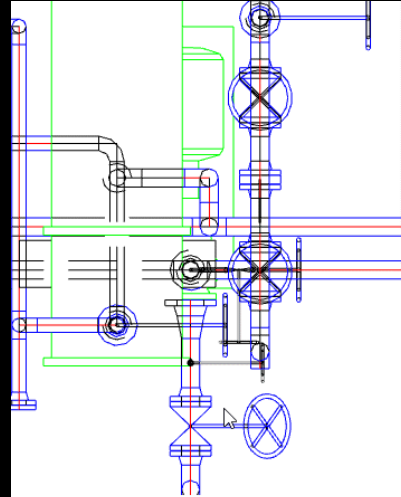
Clarity in schedule

FEATURES

Search: TK

Tag	Filename
TK-6-1001	6-B-1000_Equip.dwg
TK-1003	1-PE-001.dwg, Area1_...
TK-6-1004	6-B-1000_Equip.dwg
TK-6-1002-B	6-B-1000_Equip.dwg
TK-6-1000	6-B-1000_Equip.dwg
TK-1004	Area1_Plan.dwg, 1-PE...
Validation Checklist	
TK-6-1006	6-B-1000_Equip.dwg

Tag	P-1001?
Number	1001
Type	P
Area	
PartSubType	HorizontalCentrifugal...
DwgId	4346
DwgHandleLow	43845
DwgHandleHigh	0
DwgSubIndex	0
Property Validation	
RowClassName	Pump



Related Documents

File Name	Type
Area1_Plan.dwg	Ortho
1-PE-001.dwg	3D Model

Related Documents

Search: TK-1003

Parts 1	Description
TK-1003	Tank

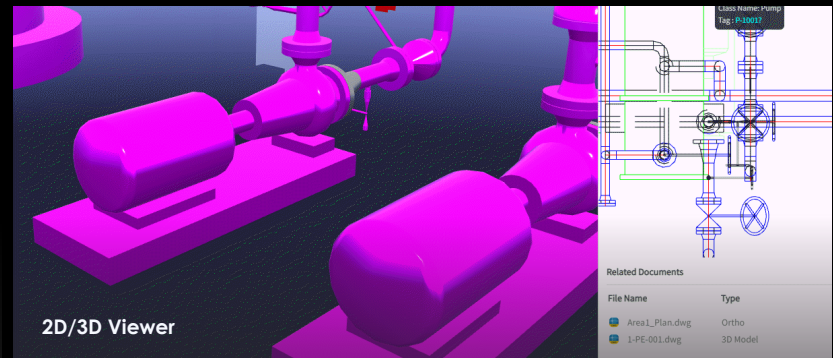
Line Group 4	Description
1039	PIPE LINE GROUP
1046	NA
1039	PIPE LINE GROUP
1046	NA

Universal Search	Title
Area1_Plan.dwg	Tank

DESIGN TIMELINE

Tags	Fri, 22 Jul	Sat, 23 Jul	Sun, 24 Jul
6-CV-1001			6-CV
6-CV-1002			6-CV
6-CV-1003			6-CV
CV-101			CV-101
CV-6-1002			CV-6-1002

Design Progress



2D/3D Viewer

File Name	Type
Area1_Plan.dwg	Ortho
1-PE-001.dwg	3D Model

FEATURES

Search: TK

Tag	Filename
TK-6-1001	6-B-1000_Equip.dwg
TK-1003	1-PE-001.dwg, Area1_...
TK-6-1004	6-B-1000_Equip.dwg
TK-6-1002-B	6-B-1000_Equip.dwg
TK-6-1000	6-B-1000_Equip.dwg
TK-1004	Area1_Plan.dwg, 1-PE...
TK-6-1005	6-B-1000_Equip.dwg
TK-6-1006	6-B-1000_Equip.dwg

Property Validation

DwgHandleLow	43845
DwgHandleHigh	0
DwgSubIndex	0
RowClassName	Pump

Related Documents

Area1_Plan.dwg	Ortho
1-PE-001.dwg	3D Model

Parts 1

Parts	Description
TK-1003	Tank

Line Group 4

Line Group	Description
1039	PIPE LINE GROUP
1046	NA
1039	PIPE LINE GROUP
1046	NA

Universal Search

Universal Search	Title
Area1_Plan.dwg	Tank

DESIGN TIMELINE

Tags	Fri, 22 Jul	Sat, 23 Jul	Sun, 24 Jul
6-CV-1001			6-CV
6-CV-1002			6-CV
6-CV-1003			6-CV
CV-101			CV-101
CV-6-1002			CV-6-1002

Design Progress

2D/3D Viewer

3D Model

2D Plan

Related Documents

File Name	Type
Area1_Plan.dwg	Ortho
1-PE-001.dwg	3D Model

FEATURES

TK

Tag	Filename
TK-6-1001	6-B-1000_Equip.dwg
TK-1003	1-PE-001.dwg, Area1_...

Tag

P-1001?

Number1001

TypeP

Area

PartSubTypeHorizontalCentrifugal...

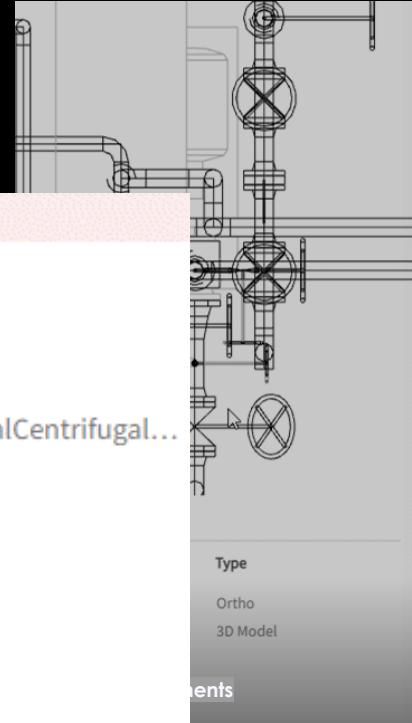
DwgId4346

DwgHandleLow43845

DwgHandleHigh0

DwgSubIndex0

RowClassNamePump



Type

Ortho

3D Model

ents

TK-1003

Parts	Description
TK-1003	Tank

Line Group	Description
1039	PIPE LINE GROUP
1046	NA
1039	PIPE LINE GROUP
1046	NA

Universal Search

Area1_Plan.dwg

Title

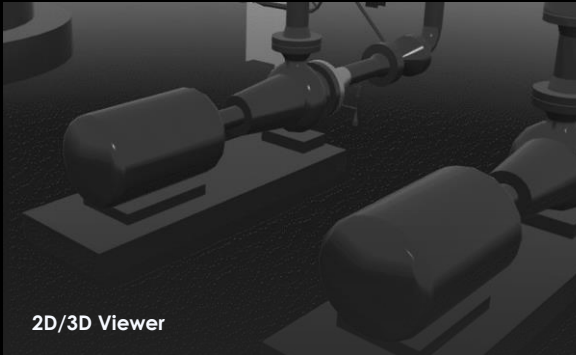
Tank

DESIGN TIMELINE

Tags	Fri, 22 Jul	Sat, 23 Jul	Sun, 24 Jul
6-CV-1001			6-CV
6-CV-1002			6-CV
6-CV-1003			6-CV
CV-101			CV-101
CV-6-1002			CV-6-1002

Design Progress

P-1001

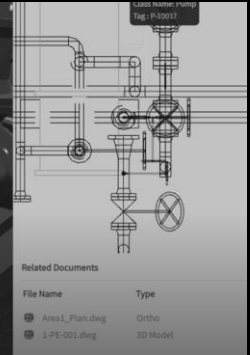


2D/3D Viewer

Legend

Line Item: Pump

Tag: P-1001?



Related Documents

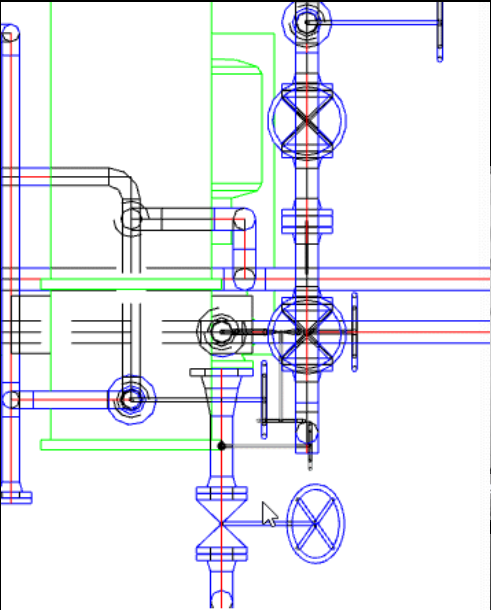
File Name	Type
Area1_Plan.dwg	Ortho
1-PE-001.dwg	3D Model

FEATURES

Q TK

Tag	Filename
TK-6-1001	6-B-1000_Equip.dwg
TK-1003	1-PE-001.dwg, Area1_...
TK-6-1004	6-B-1000_Equip.dwg
TK-6-1002-B	6-B-1000_Equip.dwg
TK-6-1000	6-B-1000_Equip.dwg
TK-1004	Area1_Plan.dwg, 1-PE...
Validation Checklist	
TK-6-1005	6-B-1000_Equip.dwg

Tag	P-1001?
Number	1001
Type	P
Area	
PartSubType	HorizontalCentrifugal...
DwgId	4346
DwgHandleLow	43845
DwgHandleHigh	0
DwgSubIndex	0
Property Validation	
RowClassName	Pump



Related Documents

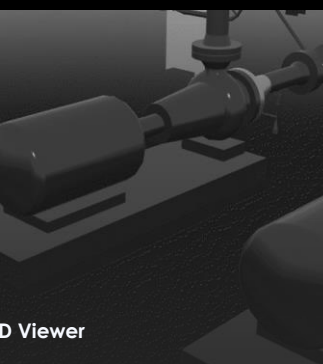
File Name	Type
Area1_Plan.dwg	Ortho
1-PE-001.dwg	3D Model

up

Description
Tank
PIPE LINE GROUP
NA
PIPE LINE GROUP
NA

Universal Search

Title
Tank

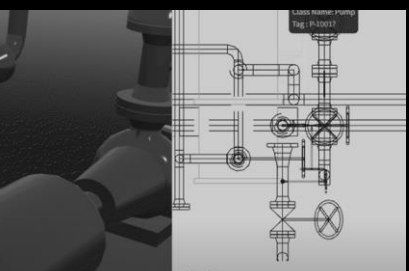


3D Viewer

DESIGN TIMELINE

Tags	Fri, 22 Jul	Sat, 23 Jul	Sun, 24 Jul
6-CV-1001			6-CV
6-CV-1002			6-CV
6-CV-1003			6-CV
CV-101			CV-101
CV-6-1002			CV-6-1002

Design Progress



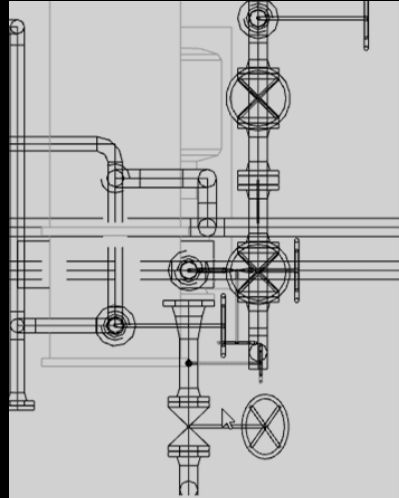
Related Documents

File Name	Type
Area1_Plan.dwg	Ortho
1-PE-001.dwg	3D Model

FEATURES

TK	
Tag	Filename
TK-6-1001	6-B-1000_Equip.dwg
TK-1003	1-PE-001.dwg, Area1_...
TK-6-1004	6-B-1000_Equip.dwg
TK-6-1002-B	6-B-1000_Equip.dwg
TK-6-1000	6-B-1000_Equip.dwg
TK-1004	Area1_Plan.dwg, 1-PE...
Validation Checklist	
	6-B-1000_Equip.dwg
TK-6-1006	6-B-1000_Equip.dwg

Tag	P-1001?
Number	1001
Type	P
Area	
PartSubType	HorizontalCentrifugal...
DwgId	4346
DwgHandleLow	43845
DwgHandleHigh	0
DwgSubIndex	0
Property Validation	
RowClassName	Pump



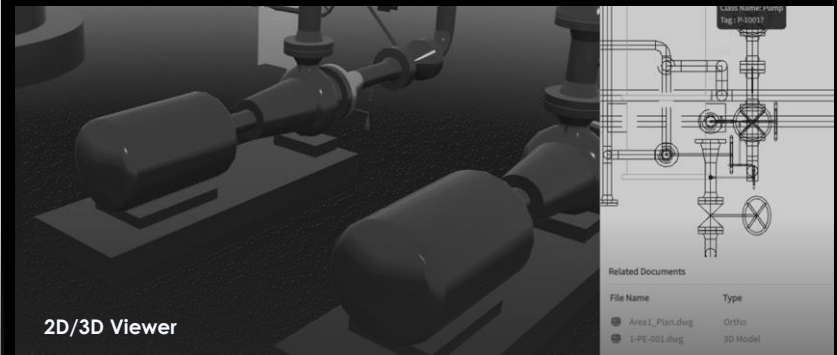
Related Documents

File Name	Type
Area1_Plan.dwg	Ortho
1-PE-001.dwg	3D Model

Related Documents

TK-1003	
Parts 1	Description
TK-1003	Tank
Line Group 4	Description
1039	PIPE LINE GROUP
1046	NA
1039	PIPE LINE GROUP
1046	NA
Ortho 1	Title
Area1_Plan.dwg	Tank

	Sat, 23 Jul	Sun, 24 Jul
		6-CV
		6-CV
		6-CV
		CV-101
		CV-6-1002



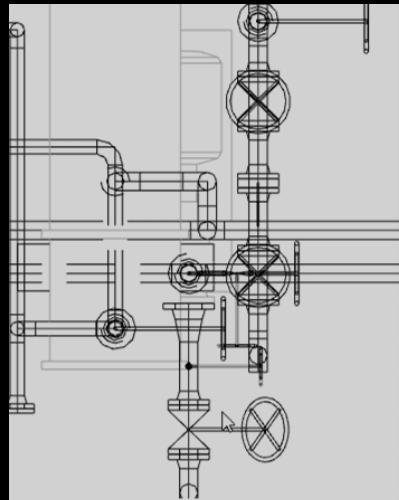
2D/3D Viewer

FEATURES

Q TK

Tag	Filename
TK-6-1001	6-B-1000_Equip.dwg
TK-1003	1-PE-001.dwg, Area1_...
TK-6-1004	6-B-1000_Equip.dwg
TK-6-1002-B	6-B-1000_Equip.dwg
TK-6-1000	6-B-1000_Equip.dwg
TK-1004	Area1_Plan.dwg, 1-PE...
Validation Checklist	
TK-6-1005	6-B-1000_Equip.dwg

Tag	P-1001?
Number	1001
Type	P
Area	
PartSubType	HorizontalCentrifugal...
DwgId	4346
DwgHandleLow	43845
DwgHandleHigh	0
DwgSubIndex	0
Property Validation	
RowClassName	Pump



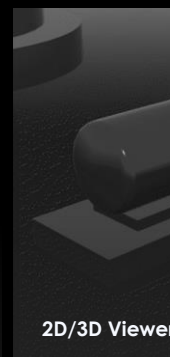
Related Documents

File Name	Type
Area1_Plan.dwg	Ortho
1-PE-001.dwg	3D Model

Related Documents

TK-1003

Parts 1
TK-1003
Line Group 4
1039
1046
1039
1046
Universal Search
Area1_Plan.dwg



2D/3D Viewer

DESIGN TIMELINE

Tags

6-CV-1001

6-CV-1002

6-CV-1003

CV-101

CV-6-1002

E-1001

Fri, 22 Jul

Sat, 23 Jul

Sun, 24 Jul

6-CV

6-CV

6-CV

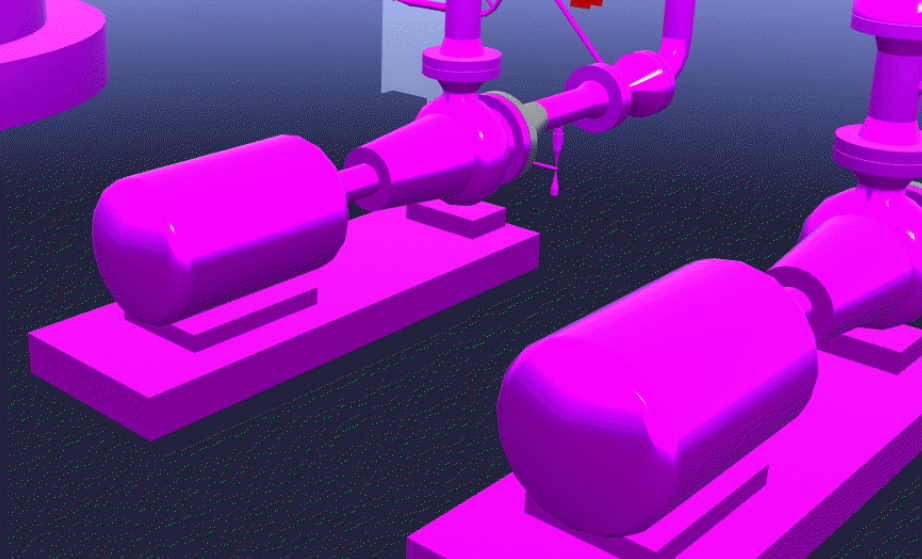
CV-101

CV-6-1002

Related Documents

File Name	Type
Area1_Plan.dwg	Ortho
1-PE-001.dwg	3D Model

FEATURES



Search TK

Tag	Filename
TK-6-1001	6-B-1000_Equip.dwg
TK-1003	1-PE-001.dwg, Area1
TK-6-1004	6-B-1000_Equip.dwg
TK-6-1002-B	6-B-1000_Equip.dwg
TK-6-1000	6-B-1000_Equip.dwg
TK-1004	Area1_Plan.dwg, 1-PE
Validation Checklist	
TK-6-1005	6-B-1000_Equip.dwg

Tag	P-1001?
Number	1001
Type	P
Area	
PartSubType	HorizontalCentrifug
DwgId	4346
DwgHandleLow	43845
DwgHandleHigh	0
DwgSubIndex	0
Property Validation	
RowClassName	Pump

Parts 1

	Description
TK-1003	Tank

Line Group 4

	Description
--	-------------

DESIGN TIMELINE

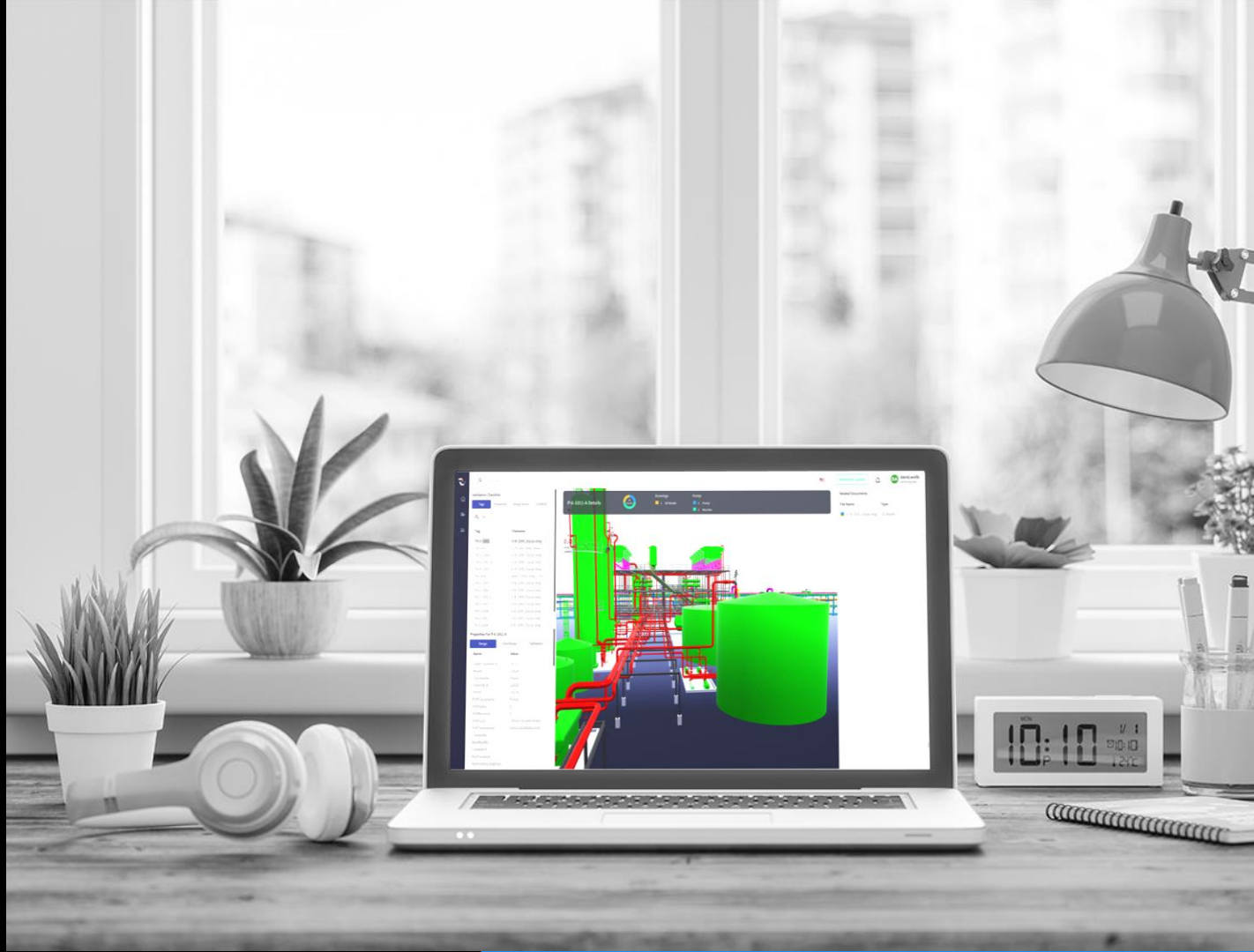
Tags	Fri, 22 Jul	Sat, 23 Jul	Sun, 24 Jul
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Class Name: Pump
Tag: P-10017

Related Documents

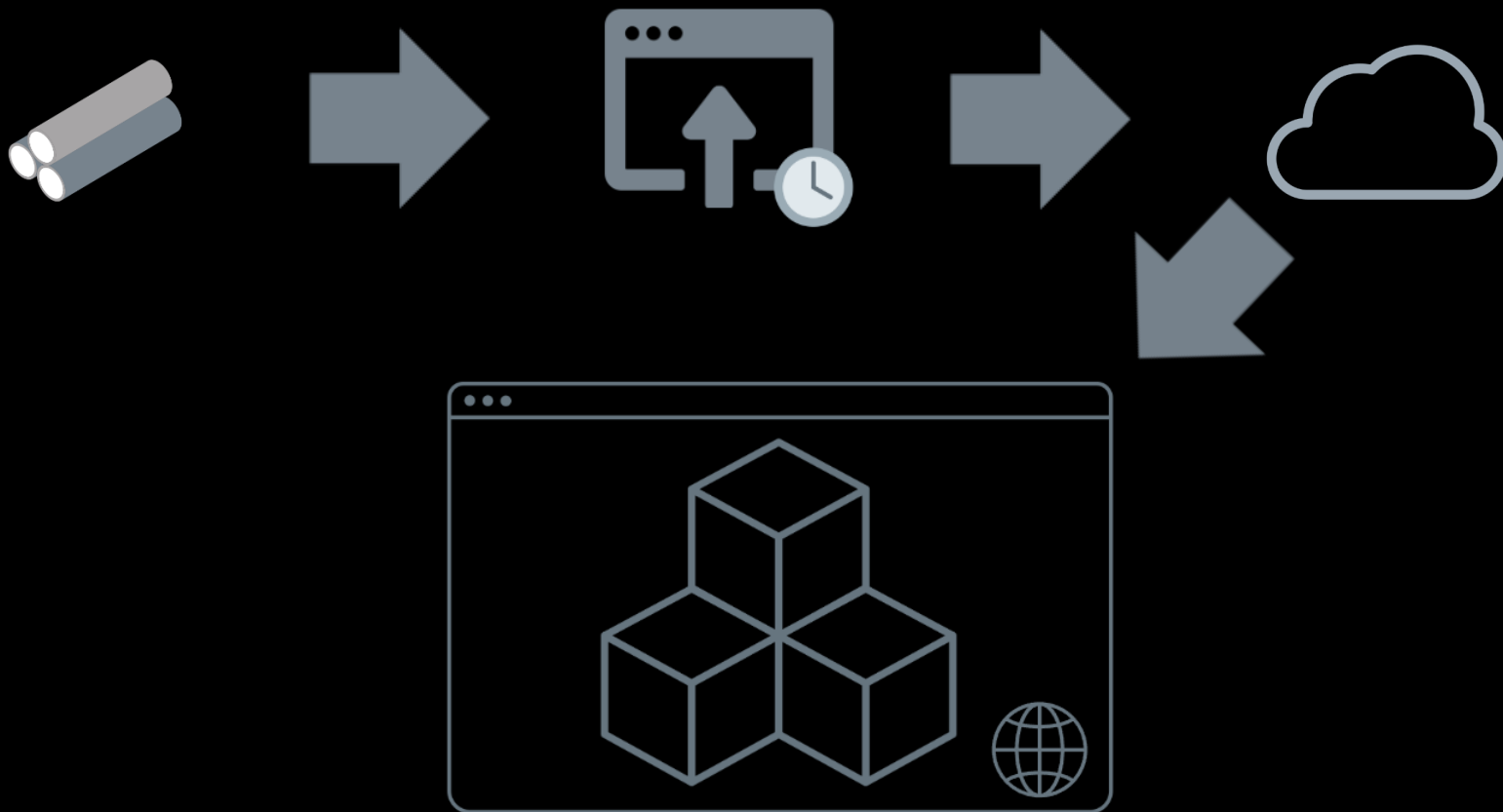
File Name	Type
Area1_Plan.dwg	Ortho
1-PE-001.dwg	3D Model

Demo





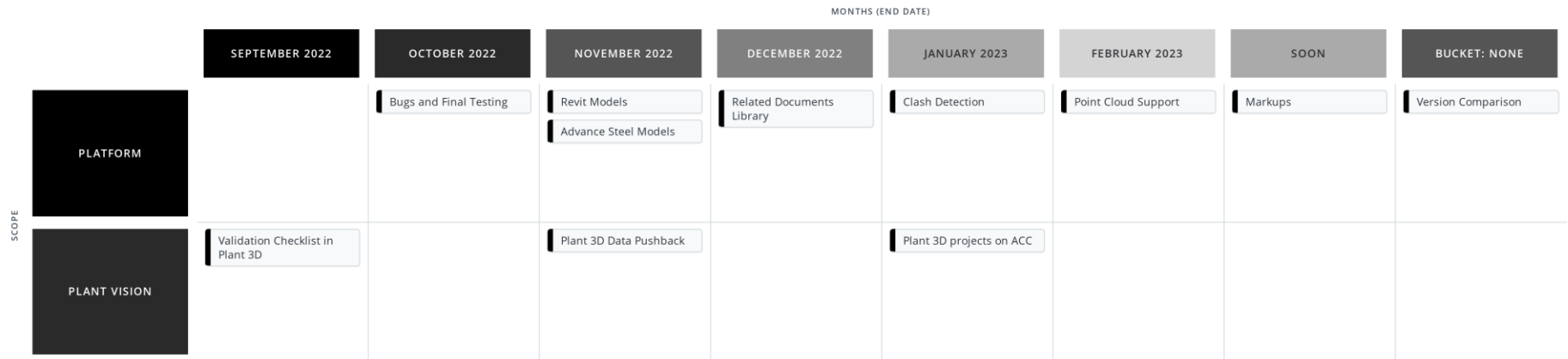
Uploading Workflow



Roadmap

FEATURES

PLANT VISION - OVERALL BUSINESS SWIMLANE



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