Pre-Engineered Pipe Supports

To be our customer's benchmark for dependability, expertise & safety
Lesson Objectives

Become familiar with the Pipe Support Application Standard

Know when to use specialized pre-engineered pipe supports

Become familiar with how pipe supports are depicted in piping plans, elevations, and isometrics.
A pre-engineered pipe support is a support which has been designed and analyzed by a Piping Stress Engineer for a particular use up to a specific load limit.

Pre-engineered pipe supports come in a variety of configurations and materials and have many applications. Some of the applications are basic pipe supporting, pipe insolation supporting, anchoring, horizontal guiding, vertical guiding, and pulsation suppression.
Types of Pre-Engineered Pipe Supports

The most common types of pre-engineered pipe supports are:
Base supports
Pipe Shoes
Directional Anchors
Full Anchors
Guides
Dummy Supports
Support Trunnions
Load Pads
Pick-Ups
Field Supports
Concrete Pads
Typical Pipe Support Detail

Ex: Anchor

Design Application
Drawing Presentation
Assembly Tag
Fabrication Details
Material List
Typical Pipe Support Detail

Ex: Anchor
Typical Pipe Support Detail

Ex: Anchor
Typical Pipe Support Detail

Ex: Anchor

Assembly Tag
Typical Pipe Support Detail

Ex: Anchor

Fabrication Details

Material List
Concrete Pad

**Table**

<table>
<thead>
<tr>
<th>Size</th>
<th>Prime Size</th>
<th>Cap Plate Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1&quot;-10'</td>
<td>1&quot;</td>
</tr>
<tr>
<td>2</td>
<td>1½&quot;-24'</td>
<td>1½&quot;</td>
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</table>
Pipe Shoe

551, 552 & 553

Pipe Shoe

FLUOR

Project Execution Services (PES)
Support Trunnion

B.O.P. ELEVATION SHALL ALLOW 1/2" CLEAR FROM T.O.S. FOR SHIMS

TRUNNION PIPE SIZE

SST - # SUPPORTS TRUNNION FOR PIPE SIZES 2" - 24" (NOTES 2.0 AND 4.0)
Load Pad

SLP**-

LOAD PADS
FOR PIPE SIZES 800 & SMALLER

LENGTH LINE SIZE

400 FOR 51 PB
900 FOR SLP L

PLAN
DO NOT INDICATE

ISOMETRIC
LIST ONLY
DO NOT INDEX

FLUOR
Hanger Rod

CAUTION:

THE USE OF THIS SUPPORT REQUIRES THE APPROVAL OF INTEG ENGINEERING.
Field Support

PIPE SIZES 10" AND SMALLER FROM CONCRETE COLUMN

5ES1C - SEE TABLE

<table>
<thead>
<tr>
<th>SIZE CODE</th>
<th>PIPE SIZE</th>
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<tbody>
<tr>
<td>1</td>
<td>2&quot; AND SMALLER</td>
</tr>
<tr>
<td>2</td>
<td>3&quot;-10&quot;</td>
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Supports with * locate by dimension. Lay out and coordinate on elevation.

Plan View

FLUOR

Project Execution Services (PES)
U-Bolt Support

U-BOLT 012E

SUBS -

U-BOLT SUPPORT

PIPE SIZE 1/2”-10”
Insulation Support

Insulation Support Lug for Weldable Pipe 36" & Smaller

Quantity of Lugs Required

<table>
<thead>
<tr>
<th>Pipe Size</th>
<th>2&quot; to 6&quot;</th>
<th>6&quot; to 16&quot;</th>
<th>16&quot; to 36&quot;</th>
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<tbody>
<tr>
<td>2</td>
<td>2</td>
<td>4</td>
<td>8</td>
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Non-Heat Treated CS

Isometric View
Questions??