

# PipeTrax

BY PIPELINE SAFETY



**BAR CODING  
& TRACEABILITY**



The Project Integrity Team specializes in Material Logistics, Traceability, and Electronic Document Management (EDM). Our Team has the expertise and the tools to assist our clients in realizing project goals. We understand the importance of establishing and complying with the fundamentals of Designs, Specifications, Procedures, and Regulations. We also understand the critical need to demonstrate compliance of these fundamentals to governing and other parties (PHMSA/DOT, Operations, and the Public). We call this, "Proving Your Processes." Material and constructability integrity are critical to the success of any pipeline project. Our Comprehensive cradle-to-grave approach to traceability assists our clients in achieving just that – a successful project completion.



## SERVICES

### Material Logistics

Material Logistics provide coordination for material movement and assists in the scheduling of project events from pipe manufacturing through installation (i.e. Pipe Mill, Coating, Transportation, Stringing, Installation, etc.). A “point of contact” is established for all field communications and coordination, which ensures project material deliverables coincide with overall project schedule milestones.

### Electronic Document Management (EDM)

A file nomenclature along with a structure is established and tailored specifically for the project before commencement. At commencement, field documentation is collected near real time and is reviewed by qualified office personnel upon receipt. Our personnel will then check for completeness, quality, missing documents, discrepancies. Any possible issues or discrepancies on documentation are relayed back to the Inspection Team for near real-time resolution. Document Control Progress Reports are created and sent out monthly throughout the project; this gives all parties a snapshot of current progress and allows for better communication among all involved.

## SERVICES

# Traceability

Pipeline Safety's patent-pending traceability systems allow us to track pipe, weld, and cross-reference data from coil, to pipe mill, to laydown yard, to installation, ending at the hydrostatic testing processes. Original pipe and weld numbers are transferred to the pipe OD via bar code labels, allowing all pipe/welds to be tracked through all phases. Qualified personnel are placed in these critical phases of the project and equipped with portable field units, scanners, and printers. Data collected is then validated via our systems. Pipeline Safety's office and field technicians monitor the database daily to resolve any issues near real time.

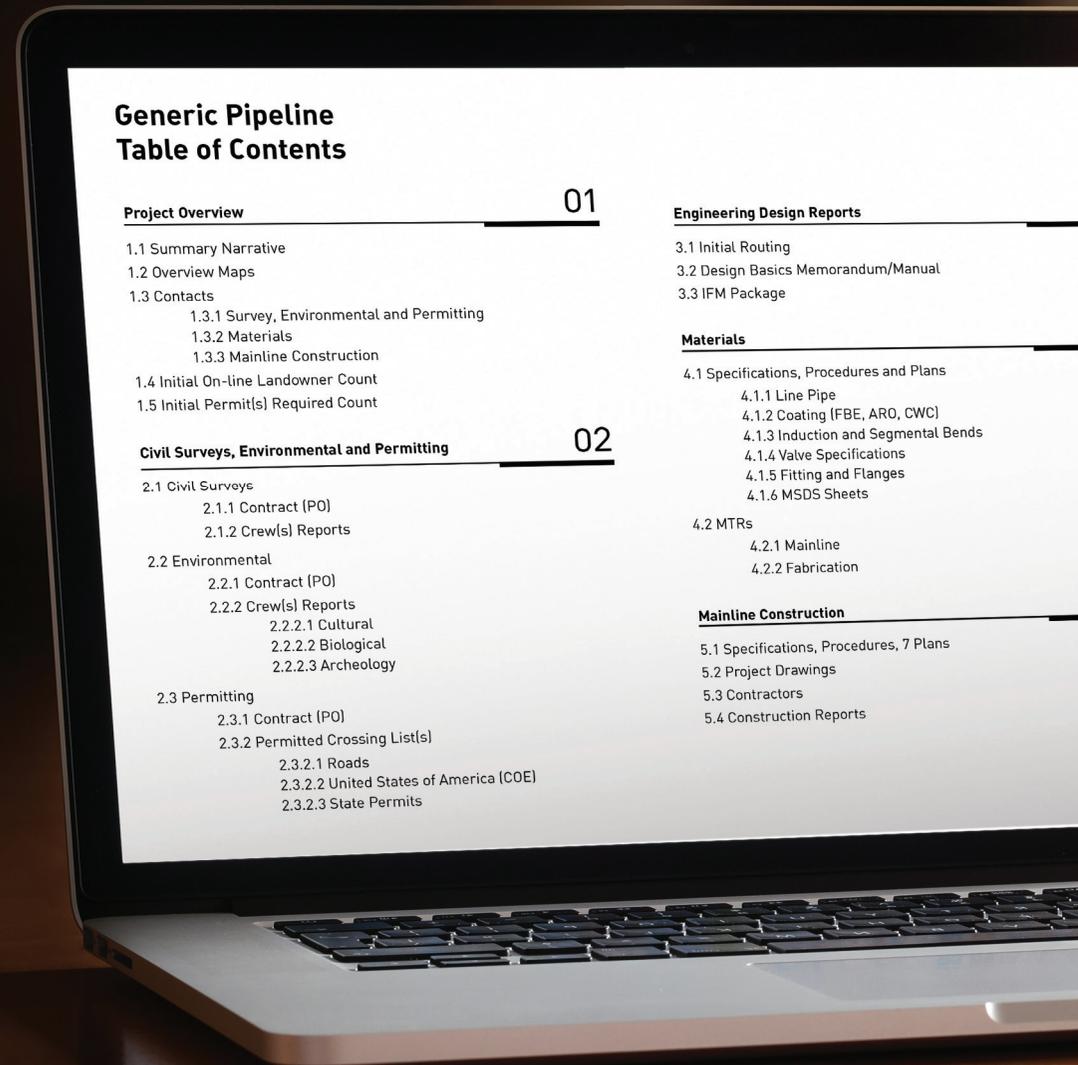
# Document Archiving

Document Archiving is used our clients to convert old project documents to an electronic format for preservation and easy access. For the final deliverable, clients receive a hard drive with all document archives in final IDS (Interactive Document System) format; all documentation is organized and formatted in a searchable electronic structure.



## PORTABLE HARD DRIVE

At the conclusion of the project, the client receives a portable hard drive with Pipeline Safety's IDS (Interactive Documentation System). All project documentation is organized, validated and formatted in an electronic searchable structure for easy retrieval of information. No special software is required to run the hard drive contents.



## Generic Pipeline Table of Contents

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  - 1.3.2 Materials
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- 1.4 Initial On-line Landowner Count
- 1.5 Initial Permit(s) Required Count

### Civil Surveys, Environmental and Permitting

02

- 2.1 Civil Surveys
  - 2.1.1 Contract (PO)
  - 2.1.2 Crew(s) Reports
- 2.2 Environmental
  - 2.2.1 Contract (PO)
  - 2.2.2 Crew(s) Reports
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    - 2.2.2.2 Biological
    - 2.2.2.3 Archeology
- 2.3 Permitting
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### Engineering Design Reports

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- 3.2 Design Basics Memorandum/Manual
- 3.3 IFM Package

### Materials

- 4.1 Specifications, Procedures and Plans
  - 4.1.1 Line Pipe
  - 4.1.2 Coating (FBE, ARO, CWC)
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  - 4.1.4 Valve Specifications
  - 4.1.5 Fitting and Flanges
  - 4.1.6 MSDS Sheets

### 4.2 MTRs

- 4.2.1 Mainline
- 4.2.2 Fabrication

### Mainline Construction

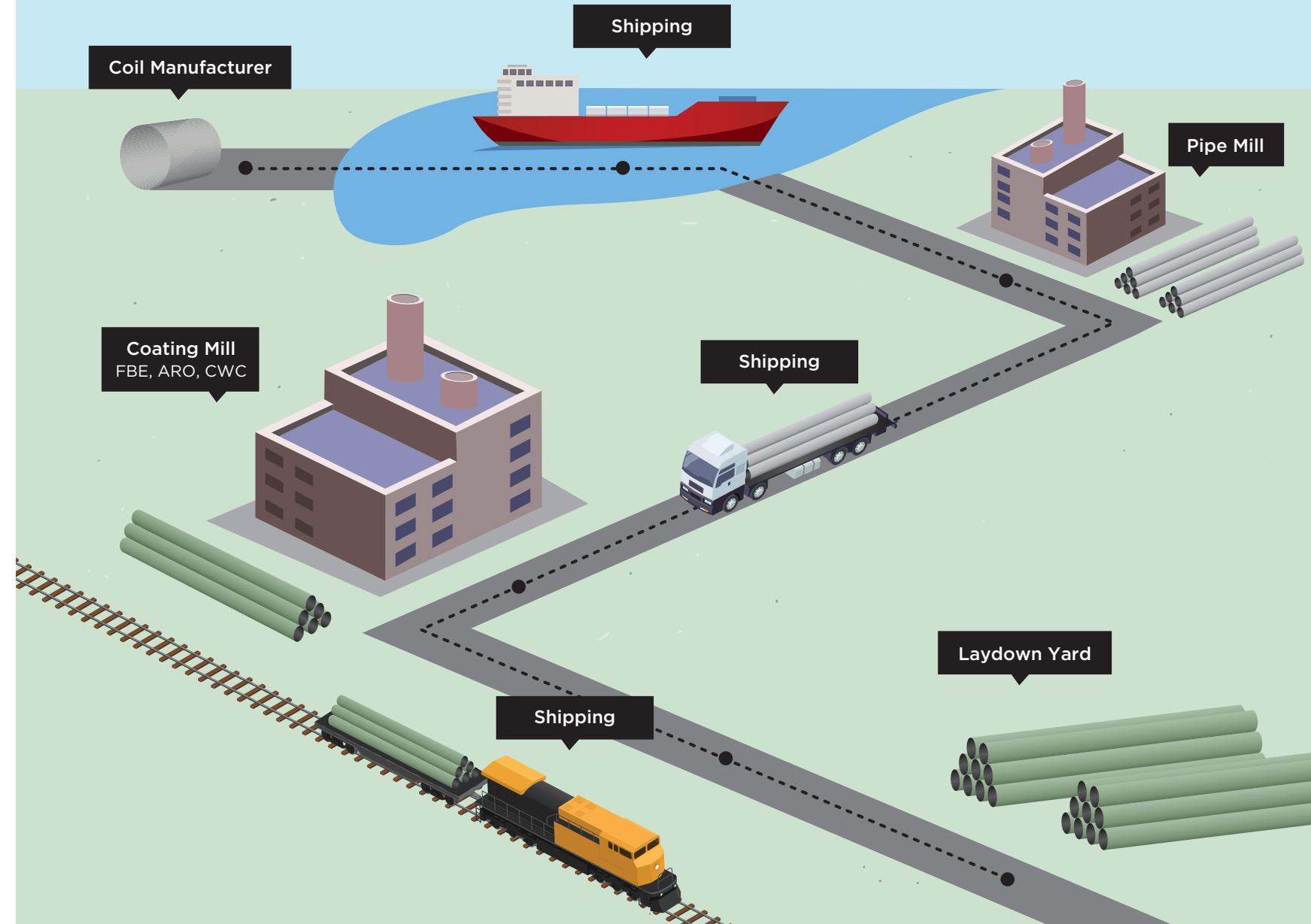
- 5.1 Specifications, Procedures, 7 Plans
- 5.2 Project Drawings
- 5.3 Contractors
- 5.4 Construction Reports

## PROCESS

### PHASE 1

## Materials Mainline

Phase I is considered the Materials phase of a project - Coil, Pipe Mill, Coating, and Laydown. Pipeline Safety works closely with the Pipe Mill and Coating contractors to collect all necessary data and documentation. This data is imported to our database; meanwhile documentation such as MTR's, Coating, QA/QC Reports, Pipe Mill Reports, etc., are collected, validated, and stored in IDS (Interactive Document System). As the pipe is shipped or moved to the laydown yards, Pipeline Safety technicians validate each pipe via handheld units (unit, scanner, and printer). Once pipe data (joint #, heat #, pipe diameter, and such) is collected, it is then transferred to our Barcoding System. Immediately after validation, barcode labels are printed in real time and attached to the pipe. During this process, pipe pedigree issues may arise which may cause discrepancy reports to be created and sent to necessary experts for immediate attention. Issue pipe is put on QA/QC hold and is not taken to the Right-Of-Way (strung) until the pipe is cleared.



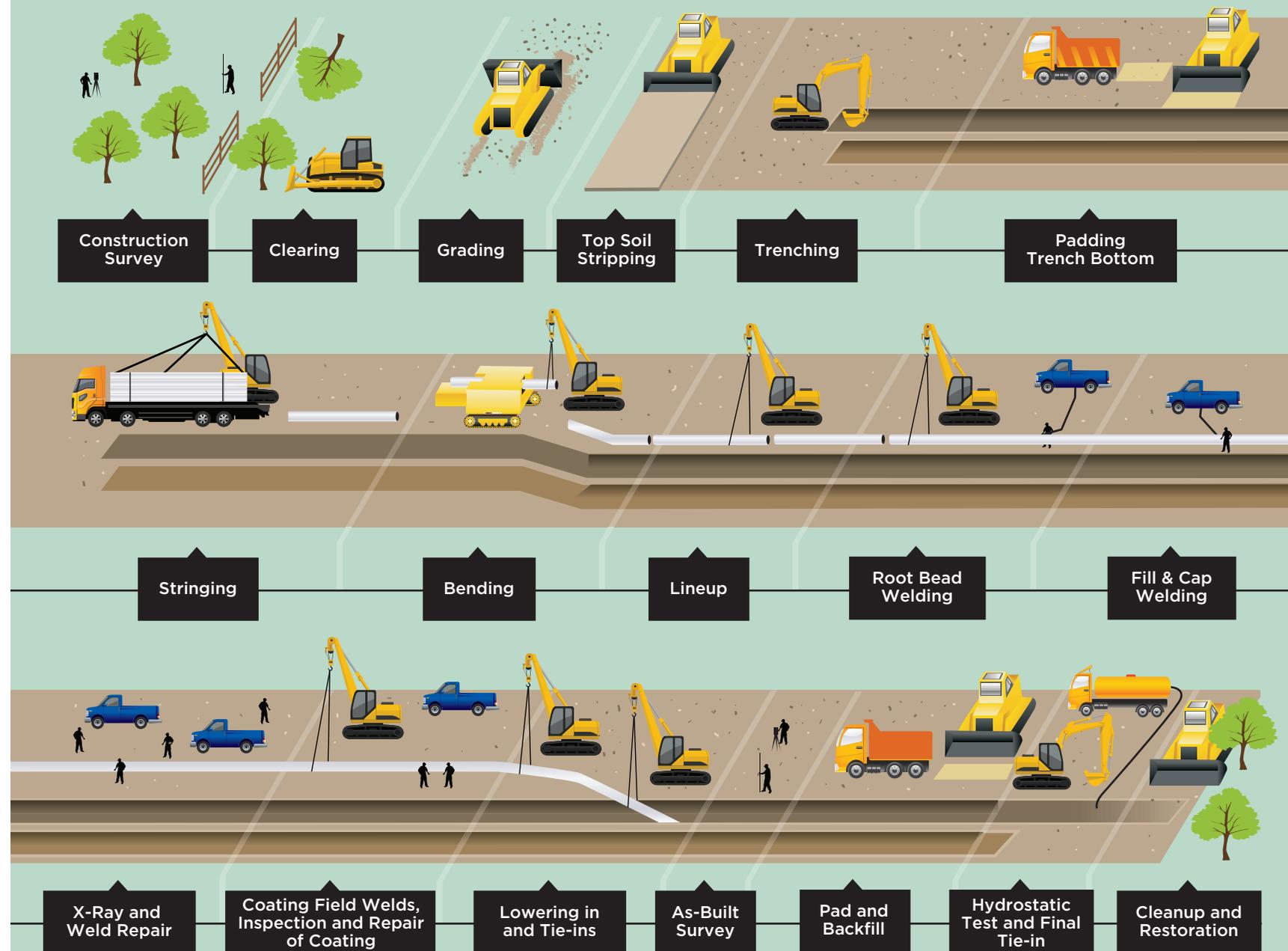
## PROCESS

### PHASE 2

# Installation Mainline

Phase II is classified as the Installation or Construction phase of a project; Stringing, Welding, Nondestructive Testing, Field Coating, Hydro, Caliper Run, Survey/Final As-Built. As pipe moves to Phase II of the project, the pipe is once again validated at stringing. Technicians scan the barcodes applied at laydown for confirmation of pipe arrival to the Right-Of-Way. At this time, a new “orange” barcode with the same information is applied to the pipe to ensure all parties are aware of pipe confirmation. Any discrepancies that may arise are flagged, put on QA/QC hold, and sent to necessary experts for further analysis until issue pipe is cleared. Pre-printed weld barcodes are sent to the field before welding begins; this allows for a more accurate account of weld numbers and eliminates the skipping of weld numbers, and wrong numbers picked up by the survey. Technicians scan each weld as they are x-rayed. All scanned data syncs near real time.

Phase I, Phase II, and Survey data sets are cross-referenced daily to identify inaccuracies among all data. While data is collected via the handhelds, Pipeline Safety office and field personnel also collect all pertinent documentation (NDE Reader Sheets, Welder Qualifications, Daily Inspector Reports, Specifications/ Procedures, Hydro Packages, Caliper Run Reports, etc.) All documentation is collected, validated, and stored in IDS (Interactive Document System) near real time. Any issues with data or document validations are communicated to the appropriate parties for immediate action.



## PIPELINE SAFETY

Pipeline Safety personnel excel at bringing out the best in your team. Our field and office technicians work with your project team to ensure that all data and documentation is correct and complete. Technicians, using our proprietary data management system, validate data across processes in real time to catch errors before they are too costly to correct. At the end of the project, our clients receive a final deliverable of an Indexed Document System (IDS) that is compliance ready and easily searchable. Rest assure that at any time during and after, information will be easily available to you in the event of an audit, the re-rating of a line, and/or sale of and asset, at the click of a mouse.



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