The image shows the cover of a spiral-bound notebook. The cover has a light beige, textured fabric-like appearance. On the left side, there is a silver metal spiral binding. The text is centered on the cover in a large, bold, black serif font.

**Geopak for MoDOT
Right of Way &
Location Survey Plans**

Introduction

- *Introductions*
- *Course Description:*
 - The course will introduce the workflow and processes for developing R/W and/or Location Survey Plans.
- *Course Schedule:*
 - First day 9:30 to 3:30
 - 2nd and 3rd days 8:00 to 3:30
 - 1 hour lunch each day
 - Breaks every hour

Introduction

- *Topics Covered*

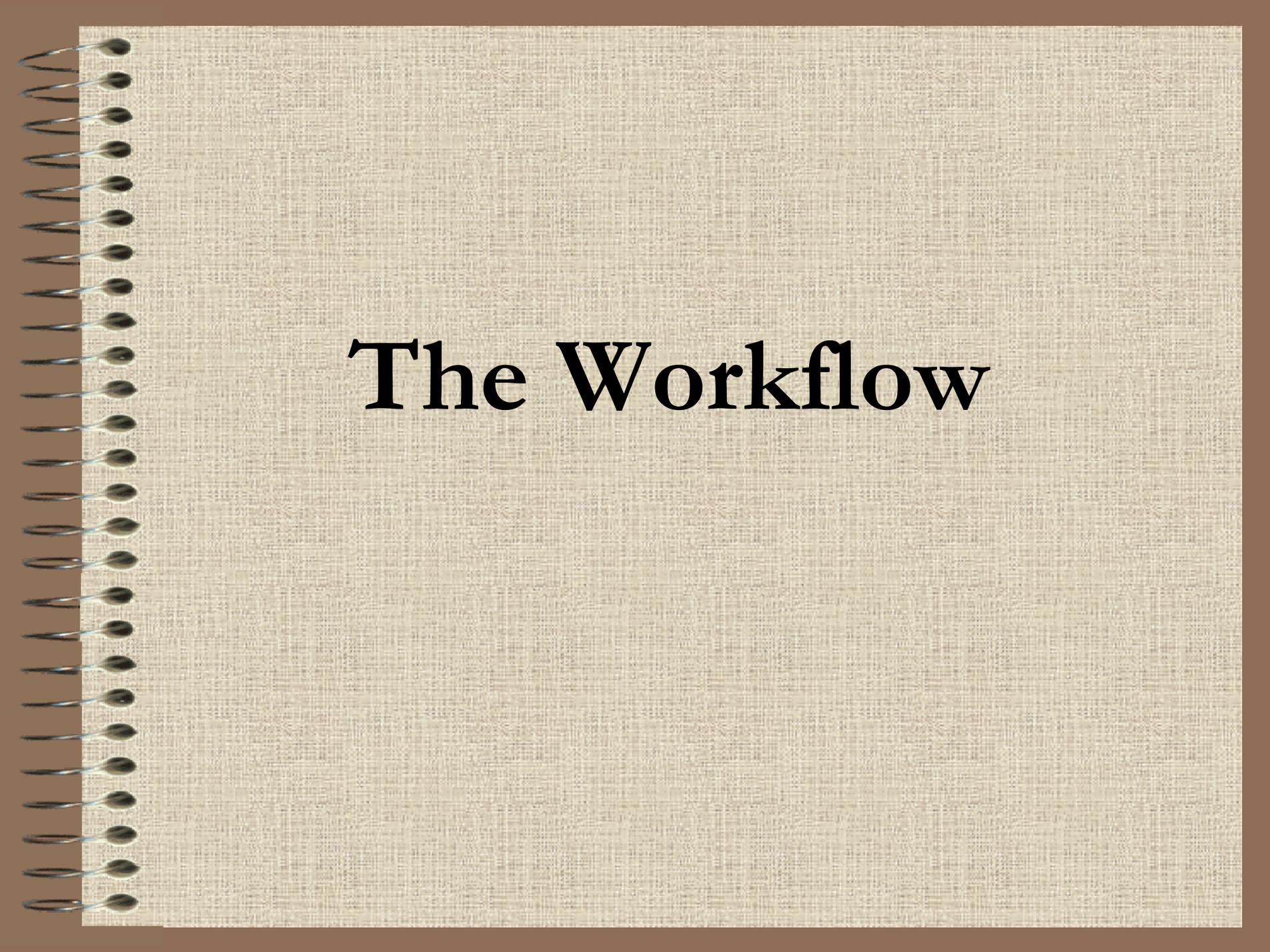
- **Workflow for locations surveys.**
- **Locating survey monuments.**
- **COGO commands for storing geometric elements related to R/W .**
- **COGO commands used to store parcels and parcel information.**
- **Using Design & Computational Manager for placing 2D line R/W geometry.**
- **Creating legal descriptions.**
- **Detailing survey plats and/or R/W plans using Microstation tools.**

- *Course Objectives*

- **Ability to develop a set of R/W plans and/or Location Survey plans.**
- **For designers and surveyors to understand their roles in the development of the plans.**

Introduction

- *Design Materials and Manual*
 - **Manual includes**
 - **Power points used**
 - **Geopak exercises**
 - **Plats and deeds used for the exercises**

A spiral-bound notebook with a light beige, textured cover. The metal spiral binding is visible on the left side. The text "The Workflow" is printed in a bold, black, serif font in the center of the cover.

The Workflow

The Workflow – R/W Plans

- *Surveyor receives information from designer and R/W staff.*
- *Surveyor re-establishes R/W in the field.*
 - *Locates known monuments*
 - *Locates existing MoDOT R/W as alignments*
 - *Calculate any new points, monuments, etc.*
- *Surveyor provides the following deliverables to the design staff:*
 - *Geopak coordinate geometry (.gpk) with alignments and points.*
 - *2D-design file (.dgn) as mapped from the Geopak import (land corners, monuments and existing R/W markers and lines).*

The Workflow – R/W Plans

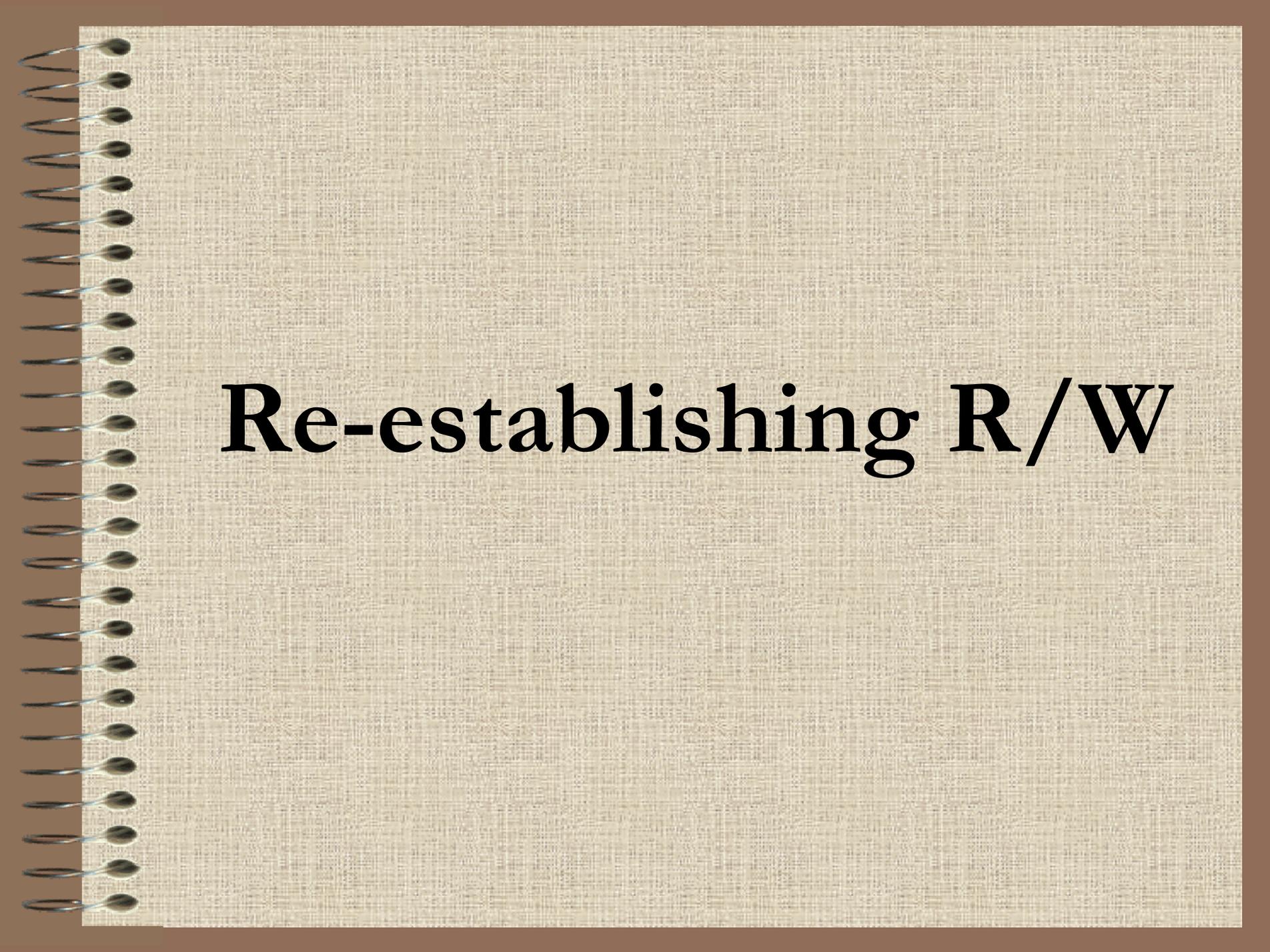
- *The designer draws 2D geometry based on:*
 - *The field information provided by the surveyor.*
 - *Deeds/plats provided by the R/W staff.*
 - *Project design.*
- *Designer develops plan sheets*
 - *Cut sheets.*
 - *Detail sheets.*

NOTE:

It is assumed that the survey centerline has already been picked up by surveyor and provided to designer during the conceptual study/preliminary plans stage.

The Workflow – Location Surveys

- *The designer provides the R/W plans for surveyor review of boundary lines.*
- *Legal descriptions are written and placed on sheets.*

A spiral-bound notebook with a light beige, textured cover. The metal spiral binding is visible on the left side. The text "Re-establishing R/W" is printed in a bold, black, serif font in the center of the cover.

Re-establishing R/W

Prior to Field Work

- *Project Summary*
- *Information available (review with class)*
 - *Deeds, plats*
 - *Old highway plans*
 - *Proposed area of project (project limits, proposed alignments, any borrow areas, etc.)*
- *Locating at least 2 corners per section*

Geopak Survey Work

- *(Handout/Exercise)*
 - *Review GPK file*
 - *Review DGN file*

A spiral-bound notebook with a light beige, textured cover. The metal spiral binding is visible on the left side. The text is centered on the cover.

Design & Development of Plan Sheets

Geopak COGO Tools for R/W

- *COGO TOOLS FOR R/W*
 - *COGO Elements for R/W(Handout)*
 - *Legal Description (Handout)*
- *EXERCISES*

Geopak D&C Manager Tools for R/W

- *D&C MANAGER TOOLS*
 - *Drafting Standards for R/W – Parcel and R/W Lines (Handout)*
 - *3PC Tools (Handout)*
- *EXERCISES*

Geopak Labeling Tools for R/W

- *TEXT TOOLS*
 - *Plan View Labeler (Handout)*
 - *Tables (Handout)*
- *EXERCISE*

A spiral-bound notebook with a light beige, textured cover. The word "Summary" is written in a large, black, serif font in the center of the cover. The spiral binding is visible on the left side.

Summary

The Workflow Summary

- *Preliminary design established by Designer.*
- *Surveyor re-establishes R/W in the field.*
- *Surveyor provides COGO information.*
- *Designer draws 2D geometry*
- *Designer develops/details plan sheets*
- *Designer provides R/W plans for surveyor review*
- *Legal descriptions are written*
- *Plats are developed*