

Study Group Agenda 29 de julio de 2023 Casa Capitular de Mayagüez 8:00am – 5:00pm

FS – Fundamental of Surveying

3. Boundary Law and Real Property Principles

- A. Public records and descriptions (e.g., land descriptions, mineral rights, ownership rights, weighting evidence)
- B. Common law principles (e.g., controlling elements, unwritten rights, adverse possession)
- C. Easements (e.g., granted, implied/prescriptive)
- D. Simultaneous and sequential conveyances
- E. Metes and bounds
- F. PLSS
- G. Water law (e.g., riparian, littoral rights, water marks/levels)
- H. Sources of law (e.g., federal/state/local, administrative, common, citations, legal research)
- I. Encumbrances (e.g., restrictive covenants, mortgages, liens)
- J. Real property law (e.g., deeds, chains of title)

4. Surveying Principles

- A. Basic surveying (e.g., horizontal surveys, vertical surveys, understanding of historical methods and instruments, route surveying, magnetic declination)
- B. Geodesy (e.g., spherical trigonometry, geometric, physical, geodetic coordinates, orthometric corrections, convergence, geodetic reductions, gravity modeling, geoid modeling)
- C. Applied geodesy (e.g., datums and datum conversions, latitude/longitude, coordinate transformations, state plane coordinate system [SPCS], map projections, control networks, reduction of observations, deflection of vertical, satellite coordinate systems)

PS - Principles and Practice of Surveying

1. Legal Principles

- A. Principles of Evidence
 - 1. How to search for data and for physical evidence to evaluate data
 - 2. How to evaluate data
 - 3. Parol evidence
 - 4. Prescriptive rights
 - 5. Adverse possession
 - 6. Acquiescence
 - 7. Controlling elements
 - 8. Easement rights
- B. Common Law Boundary Principles
 - 1. Historical and current common law principles
 - 2. Riparian and littoral rights
 - 3. Sovereign rights, including both navigable waters and eminent domain
 - 4. Sovereign land grants
- C. Sequential and Simultaneous Conveyance Concepts
 - 1. Types of conveyances
 - 2. Junior/senior rights
 - 3. Record and physical evidence
- D. Legal Descriptions for Real Property Transactions
 - 1. Preparation and interpretation of legal descriptions
 - 2. Controlling elements and how they impact the description
 - 3. Unwritten rights and how they impact the description
 - 4. Encumbrances and how they impact the description
 - 5. Easements and how they impact the description
- E. Evidence for the Perpetuation of the U.S. PLSS