ILLINOIS STATEMENT OF WORK
Irrigation Water Management (449)

These deliverables apply to this individual practice. For other planned practice deliverables refer to those specific Statements of Work.

PLAN

Deliverables:

1. Design documents that demonstrate criteria in NRCS practice standard have been met and are compatible with planned and applied practices.
    a. Practice purpose(s) as identified in the conservation plan
    b. List of required permits to be obtained by the client
    c. Compliance with NRCS national and state utility safety policy (NEM Part 503-Safety, Subpart A - Engineering Activities Affecting Utilities 503.00 through 503.06)
    d. List of facilitating practices
    e. Practice standard criteria-related computations and analyses to develop plans and specifications including but not limited to:
        i. Volume of water (per irrigation & per season)
        ii. Frequency of irrigation
        iii. Application rate
        iv. Evaluation of current system (for existing systems) including field measurement of Distribution of Uniformity (DU) and current water source with flow rate and pressure measurements.
        v. Environmental considerations
2. Written management plan and specifications, including sketches and drawings, shall be provided to the client that adequately describes the requirements to install the practice and obtain necessary permits. The plan shall include but is not limited to:
    a. Farm and Field information, including planned crop rotations by field
    b. Current management information, obtained from interviewing the irrigator. Include a description of how irrigation scheduling is done and how much water is typically applied at each irrigation event, along with any limitations on maximum hours of operation. Include documentation of past water applications by crop, if available.
    c. A detailed description of the irrigation system, including size, materials and location of features such as mains, laterals, and application systems. Include manufacturer's stated flow capacity and recommended operating pressure based on the original design and nozzle chart.
    d. Producer objectives, obtained from interviewing the irrigator.
    e. Maps
        i. Field map with field boundaries and legal description
        ii. Soils map with predominant soils listed and area quantified
        iii. Irrigation system map including size, materials, and location of the mains, laterals, and application systems
    f. Documentation of existing system uniformity, including DU field measurements obtained.
    g. Proposed irrigation schedule including:
        i. Volume of water to be applied by field, irrigation event, season, and/or year
        ii. Frequency or timing of irrigation applications, by field
        iii. Application rates and depths of irrigation events.
        iv. Methods planned to determine when to apply irrigation
        v. Methods planned to measure or quantify water applications
    h. Recommended actions to improve system efficiency and operation.
3. Operation and maintenance plan developed in accordance with the requirements of IL NRCS Conservation Practice Standard 449, Irrigation Water Management.
4. Certification that the design meets practice standard criteria and complies with applicable laws and regulations.

REFERENCES

- NRCS Field Office Technical Guide, Irrigation Water Management, 449
- NRCS National Engineering Handbook, part 652, National Irrigation Guide
- NRCS National Engineering Manual
- NRCS National Environmental Compliance Handbook
- NRCS Cultural Resources Handbook