STATEMENT OF WORK
Irrigation Water Conveyance – Reinforced Plastic Mortar Pipeline (430gg)
Wyoming

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

DESIGN

Deliverables:

1. Design Surveys
    A. Profile along centerline of conveyance.
    B. Cross sections at critical locations.
    C. Detailed topography at structure locations.
    D. Pertinent water surface elevations.
    E. Critical elevation of area to be served.
    F. Soils investigation.
2. Design documentation that will demonstrate that the criteria in NRCS practice standard have been met and are compatible with other 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. Practice standard criteria related computations and analyses to develop plans and specifications including but not limited to:
        i. Capacity
        ii. Hydraulics and Appurtenance Design
        iii. Trench and Backfill Requirements
        iv. Materials
            a. Structure design
            b. Pipeline Design(consideration for internal design and external loading)
        v. Vegetation
        vi. Quantity computations
3. Written plans 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.
    A. Overall plan view of conveyance and area to be served.
    B. Location map.
    C. Plan and profile showing design grade.
    D. Structural plans and section views.
    E. Location and size of appurtenances.
    F. Conveyance diameter and class or rating.
    G. Details of installation requirements.
    H. Table of quantities.
4. Design Report and Inspection Plan as appropriate (NEM Part 511, Subpart B Documentation, 511.11 and Part 512, Subpart D Quality Assurance Activities, 512.30 through 512.32).
5. Operation and Maintenance Plan
6. Certification that the design meets practice standard criteria and comply with applicable laws and regulations (NEM Subpart A, 505.03 (a) (3)).
7. Design modifications during installation as required.

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INSTALLATION

Deliverables

1. Pre Installation conference with client and contractor.
2. Verification that client has obtained required permits.
3. Staking and layout according to plans and specifications including applicable layout notes.
    A. Centerline alignment stakes with offset grade stakes.
    B. Appurtenance locations.
    C. Structure layout, alignment and reference stakes.
4. Installation inspection (according to inspection plan as appropriate).
    A. Actual materials used (Part 512, Subpart D Quality Assurance Activities, 512.33)
    B. Inspection records
5. Facilitate and implement required design modifications with client and original designer
6. Advise client/NRCS on compliance issues with all federal, state, tribal, and local laws, regulations and NRCS policies during installation.
7. Certification that the installation process and materials meets design and permit requirements.

CHECK OUT

Deliverables

1. As-Built documentation.
    A. Extent of practice units applied
        i. Profile and cross section of trench at critical locations.
        ii. Adequacy of bedding and backfill.
        iii. Pipe diameters and class or rating.
        iv. Size and location of appurtenances.
        v. Dimension and elevation of structures.
        vi. Results of pressure test if required.
    B. Drawings
    C. Final quantities
2. Certification that the installation meets NRCS standards and specifications and is in compliance with permits (NEM Subpart A, 505.03 (c) (1)).
3. Progress reporting.

REFERENCES

- NRCS Field Office Technical Guide (eFOTG), Section IV, Conservation Practice Standard - Irrigation Water Conveyance High Pressure, Underground, Plastic Pipeline, 430dd
- NRCS National Engineering Manual (NEM).
- NRCS National Environmental Compliance Handbook
- NRCS Cultural Resources Handbook