

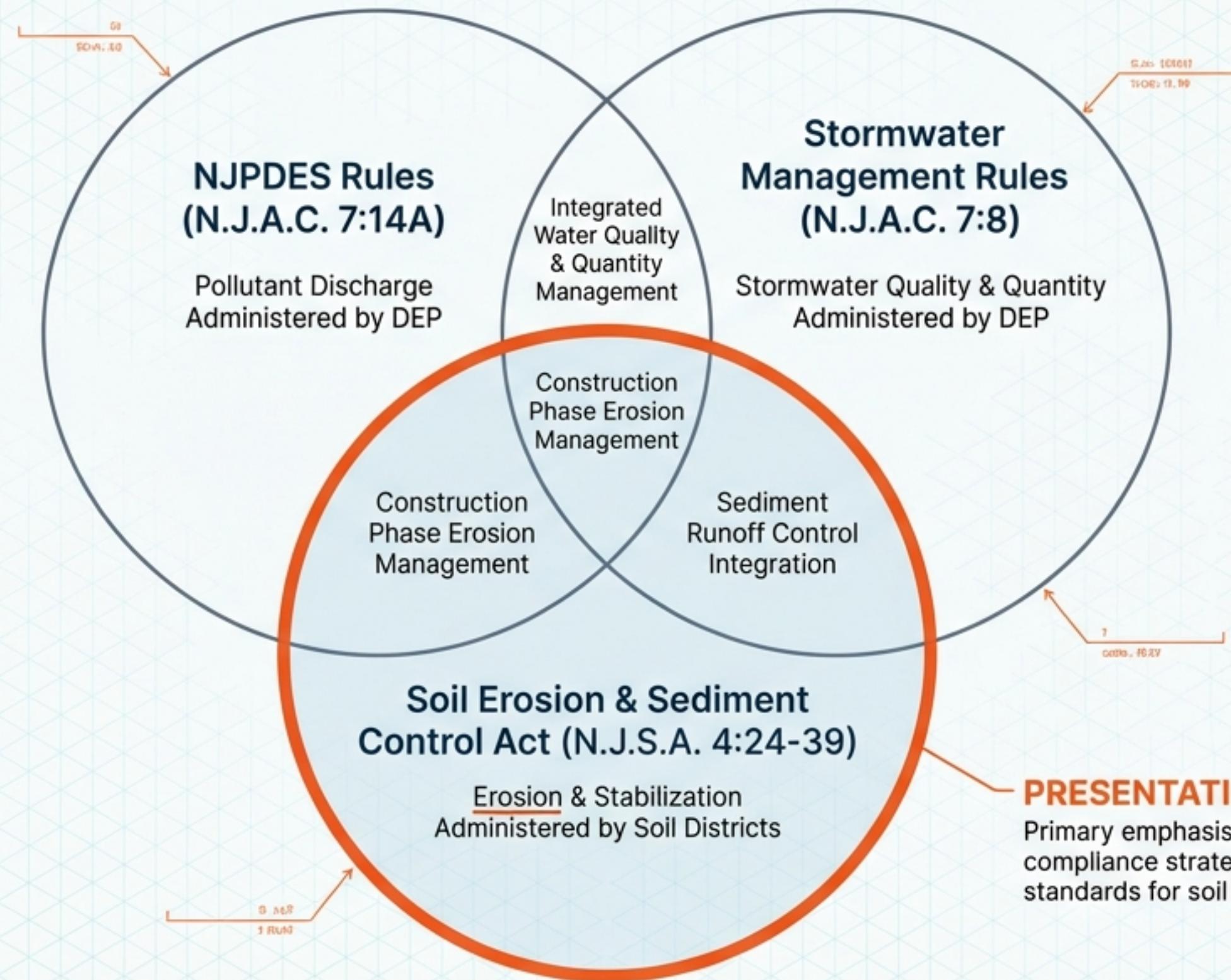
# Soil Erosion & Sediment Control in New Jersey

A Comprehensive Guide to Compliance, Standards, and Best Practices under N.J.S.A. 4:24-39.

Managing soil disturbances to ensure environmental stability during and after construction.



# The Regulatory Ecosystem



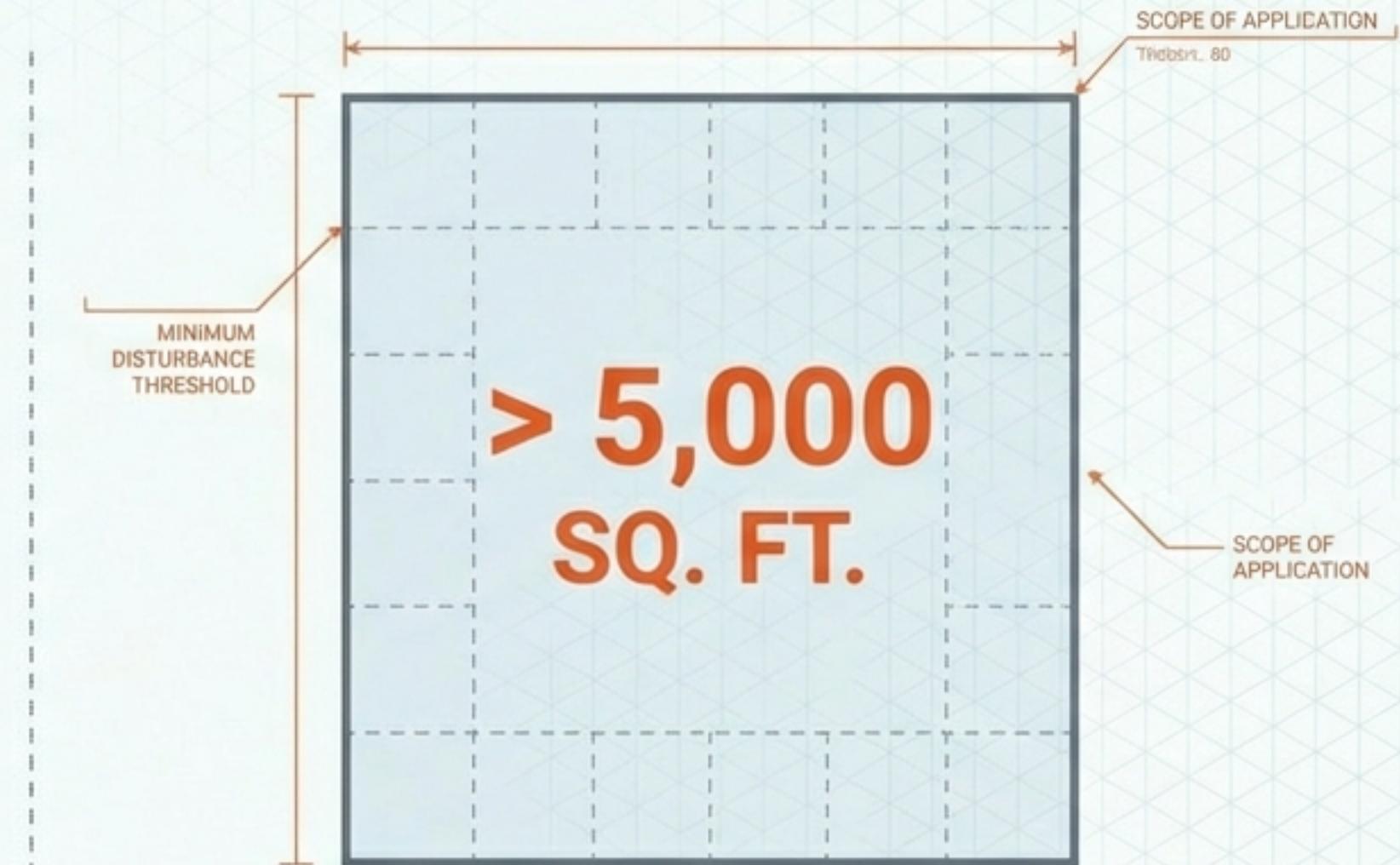
## PRESENTATION FOCUS

Primary emphasis on practical application, compliance strategies, and engineering standards for soil health and sediment control.

# The Mandate: N.J.S.A. 4:24-39

1976

Enacted to manage soil erosion from virtually all non-agriculture, construction-based soil disturbances.



- Residential & Commercial Development
- Transportation & Utilities
- Mining & Public Facilities

**THE GOAL:** Develop in accordance with a plan to control erosion **DURING** construction and ensure stability **AFTER** construction.

# Governance and Enforcement

**NJ Department of Agriculture (NJDA)  
& State Soil Conservation Committee**

Policy & Standards



**Local Soil Conservation Districts**

Review Plans • Certify Projects • Inspect Sites



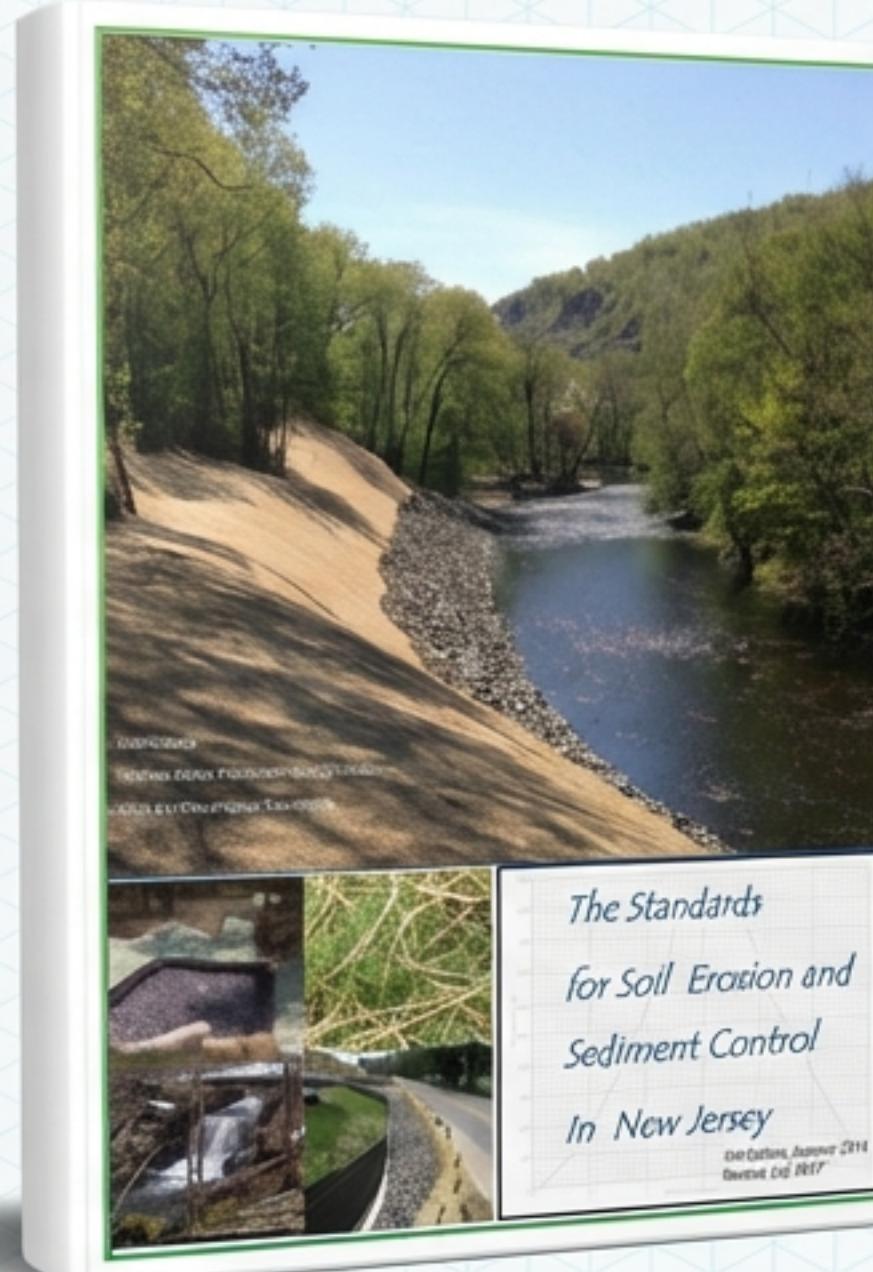
**Engineers & Architects**

Plan Development & Design

A cooperative effort  
to ensure effective  
management of  
soil and water  
resources.

# The Toolkit: 32 Standards for Compliance

The current edition (Revised 2017) contains 32 distinct practices used to secure district certification.



## VEGETATIVE STANDARDS

DIN Next LT Pro

- ① 10 Practices.
  - Focus on establishing vegetation to stabilize soil after disturbance.

## ENGINEERING STANDARDS

DIN Next LT Pro

- ② 22 Practices.
  - Address temporary control measures and permanent engineering designs for safe runoff conveyance.

# Vegetative Standards

Using biology to stabilize the earth.

Acid Soils  
Management

Dune  
Stabilization

Maintaining  
Vegetation

Permanent  
Vegetative  
Cover

Stabilization  
with Mulch Only

Stabilization  
with Sod

Temporary  
Vegetative  
Cover

Topsoiling

Tree Protection  
During  
Construction

Trees, Shrubs,  
and Vines



# Engineering Standards

Structural controls for conveyance and management.

## ■ BARRIERS

- Silt Fence
- Riprap Sediment Barrier
- Turbidity Barrier

## ■ WATER MANAGEMENT

- Dewatering
- Diversions
- Subsurface Drainage

## ■ CONVEYANCE

- Grassed Waterway
- Lined Waterway
- Conduit Outlet Protection

## ■ CONVEYANCE

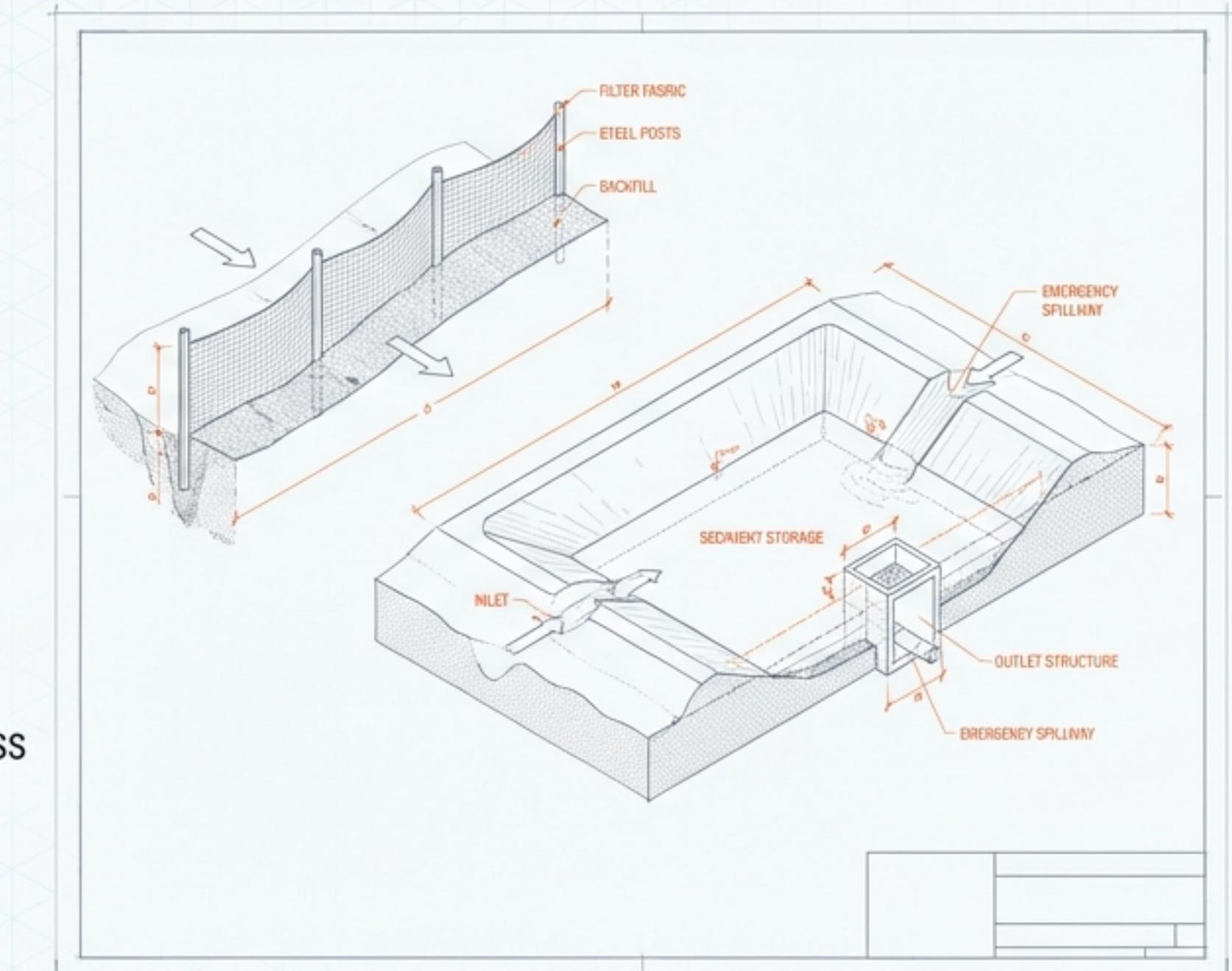
- Grassed Waterway
- Lined Waterway
- Conduit Outlet Protection

## ■ STRUCTURES

- Sediment Basin
- Grade Stabilization Structure
- Detention Structures

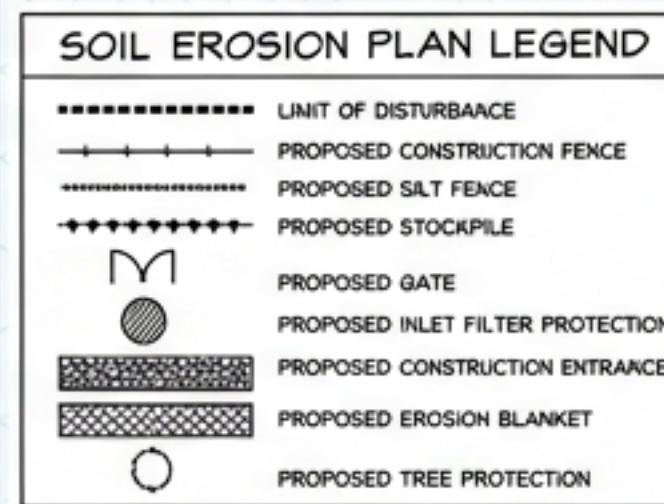
## ■ SITE ACCESS

- Stabilized Construction Access
- Traffic Control



# Translating Standards to Blueprints

The Erosion Control Plan is the binding contract for site management.



**TEMPORARY STOCKPILE AREA**

PROPOSED SILT FENCE  
(SEE DETAIL SHEET SP-CE-103)

**PROPOSED SILT FENCE**

**LIMIT OF DISTURBANCE**

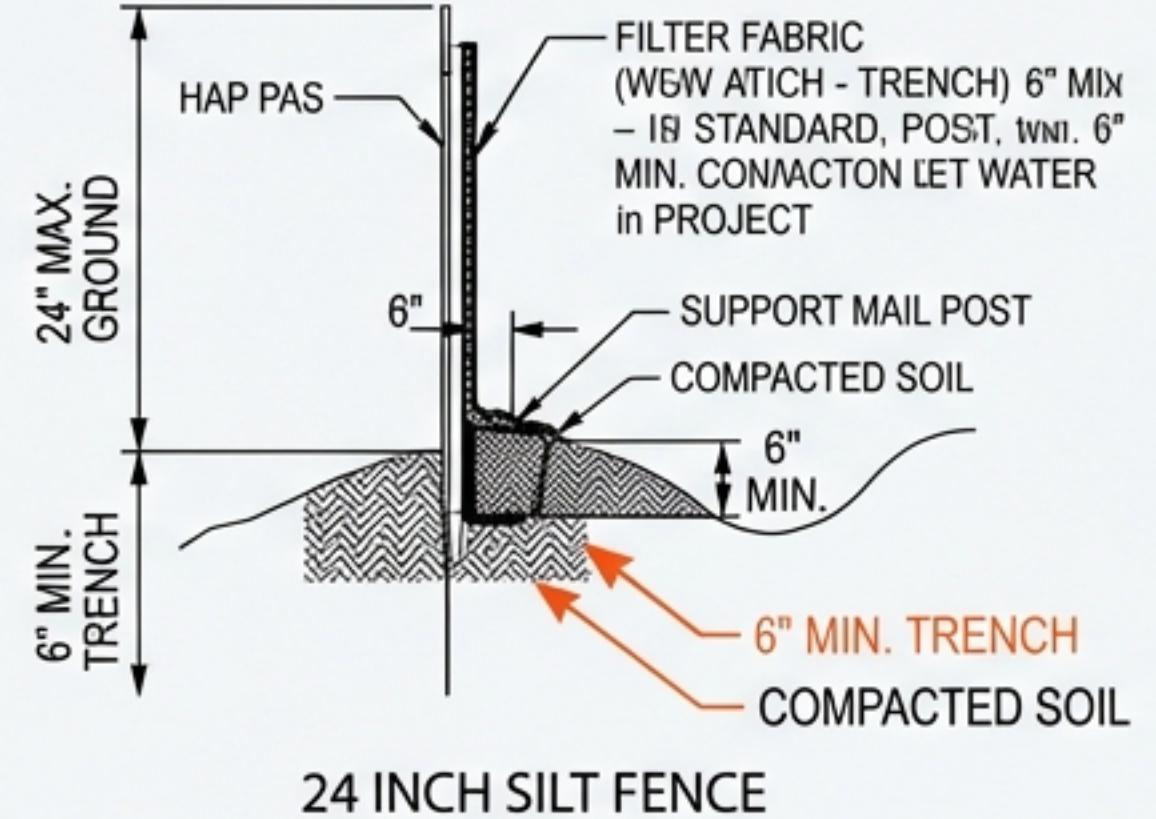
CARERANIE MORRIS  
MUSIC BUILDING

**PROPOSED INLET  
FILTER PROTECTION**

NEW LEPAGE STATE PLANE COORDINATE SYSTEM (NAD83)

# Precision in Execution

Certification requires strict adherence to construction geometries. The installation must match the standard details.



CURB INLET PROTECTION

REINFORCED SILT FENCE

EROSION CONTROL BLANKET DETAIL

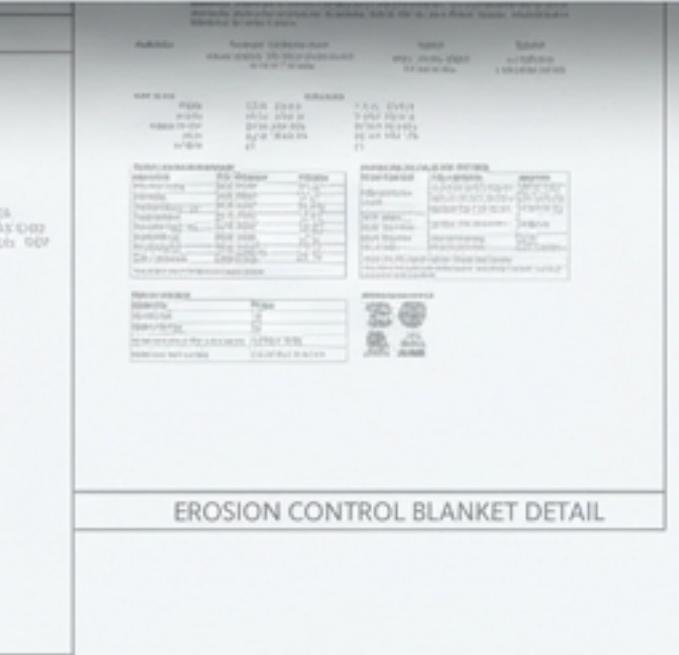
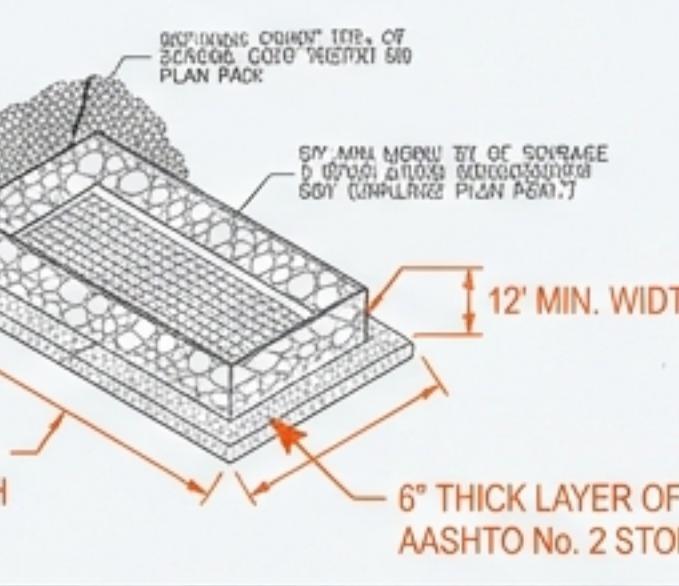
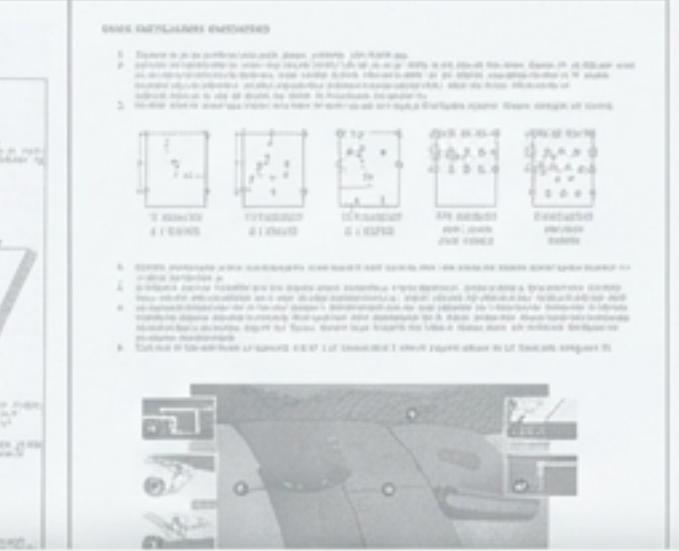
TREE PROTECTION

PLAN VIEW STREET

REINFORCED SILT FENCE

SOIL EROSION AND SEDIMENT CONTROL DETAILS

INDIVIDUAL CONSTRUCTION REQUIREMENTS



# The Threat: Outfall Pipe Stream Scouring



**Definition:** Localized erosion of the stream bank or bottom caused by high-velocity discharge.

**Mechanism:** Unchecked velocity erodes the stream bed.

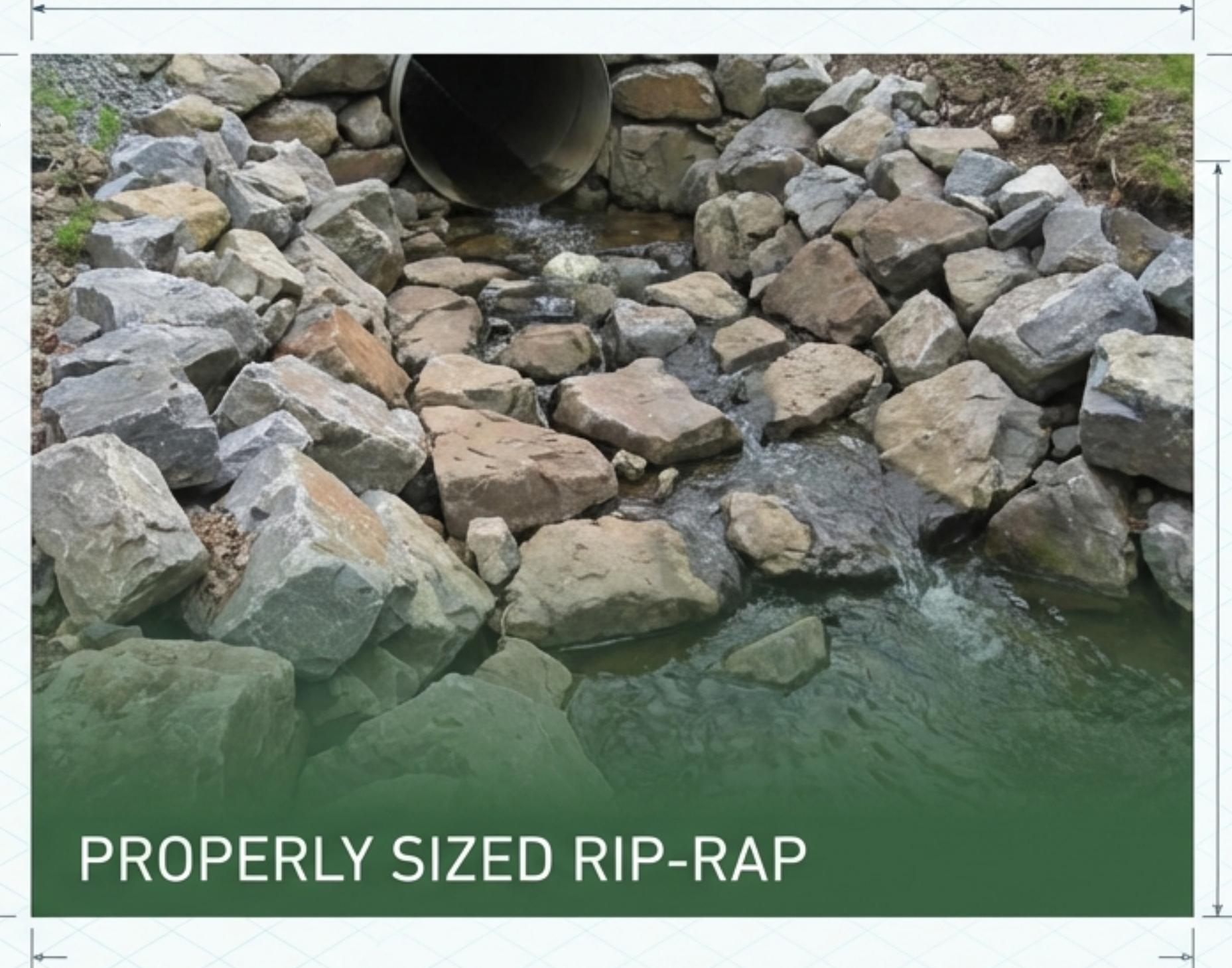
**Consequences:**

- Accelerated accumulation of sediments.
- Decline in surface water quality.
- Loss of aquatic biodiversity.

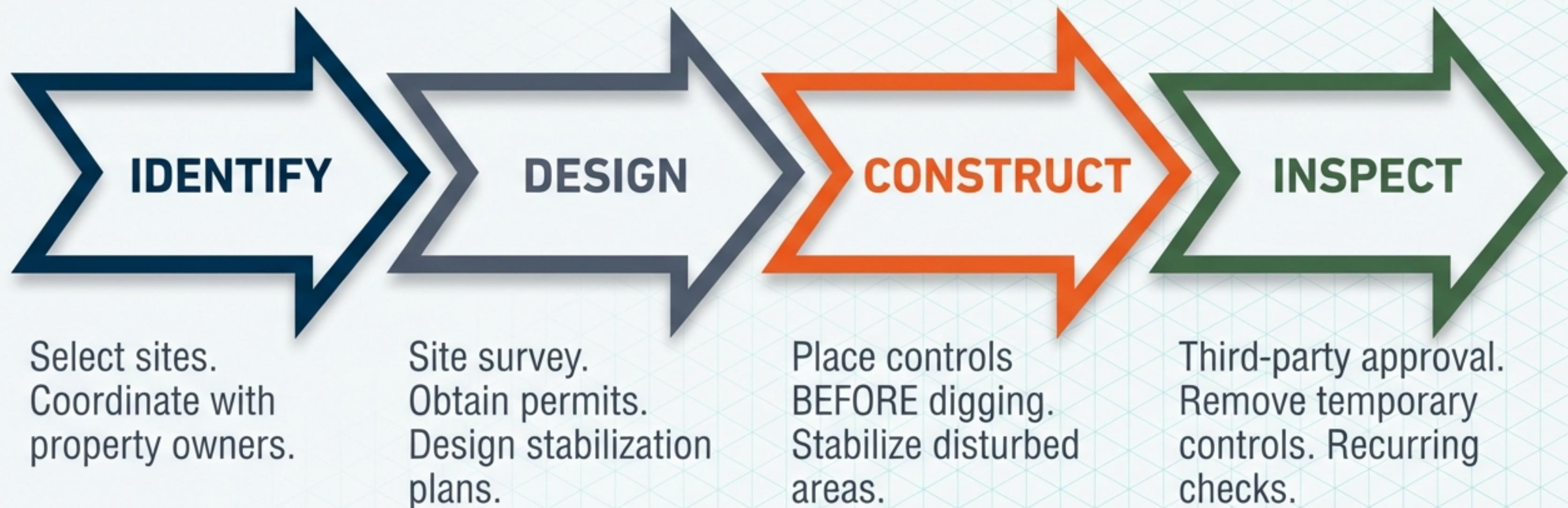
# The Solution: Velocity Dissipation

The Fix: When vegetative stabilization is not practical, structural engineering standards provide armor.

- **Action 1:** Dissipate Velocity (Reduce flow rate).
- **Action 2:** Armor the Bank (Install Rip-rap or Conduit Outlet Protection).



# The Construction Lifecycle



# A Legacy of Stewardship

Effective soil erosion control is a continuous collaboration between the NJ Department of Agriculture, local Soil Conservation Districts, and the development community.

## Resources

- The Standards: NJ Dept. of Agriculture Standards for Soil Erosion (2017 Edition)
- Guidance: NJ Tier A Municipal Guidance Document
- Web: [www.nj.gov/agriculture](http://www.nj.gov/agriculture)

