

**NATURAL RESOURCES CONSERVATION SERVICE
MISSOURI CONSTRUCTION SPECIFICATION**

SPRING DEVELOPMENT

CODE 574

GENERAL

Construction operations shall be carried out in such a manner and sequence that erosion and air and water pollution will be minimized and held within legal limits. **A land disturbance permit from the Missouri Department of Natural Resources may be needed if the disturbed area is greater than one (1) acre in size.**

The completed job shall present a workmanlike appearance and shall conform to the line, grades, and elevations shown on the drawings or as staked in the field.

All operations shall be carried out in a safe and skillful manner. Safety and health regulations shall be observed and appropriate safety measures used.

At no time shall anyone be allowed into or close to the open trench. The contractor shall be assured that all state laws concerning buried utilities are met prior to beginning work.

INSTALLATION

All loose rock, sediment, encrustations, logs, and vegetation that can obstruct the free discharge of the spring shall be removed and disposed of so that they will not endanger the spring development.

Collection trenches, drain tiles, perforated pipe lines, sumps, and spring boxes shall be constructed to the elevation and grade shown on the plans.

Crushed rock or gravel for collection systems and sand-gravel material for filters shall be composed of clean hard particles.

VEGETATION

Refer to JS-AGRON-25 for seeding and mulching recommendations or equivalent.

Additional Details: _____

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**NATURAL RESOURCES CONSERVATION SERVICE
MISSOURI OPERATION AND MAINTENANCE**

SPRING DEVELOPMENT

CODE 574

GENERAL

Site should be checked at least every six months and after any excessive rainfalls.

Any component at the site should be corrected as soon as possible to prevent major damages.

Trees and woody cover generally create problems on any components of a spring development. Trees and woody cover should be maintained in order to minimize their impact on the spring development.

COLLECTION SYSTEM

All collection trenches and pipe systems shall be inspected for proper operation. Evidence of any ponded water that can not get into the collection system should be investigated.

SPRING BOX

Boxes should be checked for durability and watertightness. Observe the condition of box. Consult with local office staff on ways to repair any effected areas.

Look for any eroded backfill areas around the box. Prompt correction by filling voided areas is imperative to the continued success of the spring development.

Remove any living, dead, or inanimate objects that would have a negative impact on the operation of the spring box and appurtenances.

OVERFLOW AND VALVE OPERATION

Observe any deterioration of pipe materials. Repair or replace any damaged pipe or appurtenances.

Check for any blockage in the overflow pipe. Remove blockage to allow proper operation of the system.

RODENT DAMAGE

Inspect condition of all components for rodent damage. Repair all effected areas.

VEGETATION

The vegetation shall be maintained to prevent erosion affecting system component(s). Eroded areas shall be promptly repaired and reseeded.

574-4 SPRING DEVELOPMENT

OUTLET

Check condition of outlet pipe, for condition of materials and blockage. Determine if materials can be repaired or, if need be, replace materials. Remove any blockage that can affect the system operation.

Additional Details: _____
