

**NATURAL RESOURCES CONSERVATION SERVICE**  
**MISSOURI CONSTRUCTION SPECIFICATION**  
**ACCESS ROAD**  
**CODE 560**

**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.

The contractor is responsible for having all utilities located at the site according to Missouri state laws prior to beginning work.

**SITE PREPARATION**

All trees, stumps, roots, brush, weeds, and other objectionable material shall be removed from the area that will be required for side approaches and inlet and outlet ditches. All unsuitable materials shall be excavated from the roadbed areas.

**ROADBED GRADING**

Existing stream channels crossing the roadbed area shall be sloped 2:1 or flatter and deepened and widened as necessary to remove unconsolidated sediments, stumps, roots, and other objectionable material and to accommodate compaction equipment.

The roadbed, including ditches, shall be graded to the required elevations. The placing and spreading of the fill shall be brought up in approximately horizontal layers not to exceed 9 inches in thickness. Each layer shall be spread, processed, and shall be compacted by one of the following methods, as specified on the drawings:

- Dozer - Complete coverage by tread or track of hauling or spreading equipment. Each lift shall not exceed 5 inches in thickness.
- Roller - two passes of standard tamping type roller over the entire area to be compacted. Complete coverage by the treads of loaded hauling equipment is considered equivalent to two (2) passes of tamping roller. Each lift shall not exceed 9 inches in thickness.

The tamping-type roller shall have tampers or feet projecting not less than six (6) inches from the surface of the drum and shall have a minimum static load on each tamper of 250 pounds per square inch of tamping area. Tamping rollers with minimum static load on each tamper of 125 pounds per square inch of tamping area may be used if the number of passes is increased to four (4) or the thickness of lifts is reduced to four (4) inches. (Sheepsfoot or wedgefoot drum rollers are considered tamping rollers.)

Approved materials will be used to make the required fills. That portion of the roadbed on which subgrade is to be prepared by excavation shall be loosened to a depth of six inches and all stones, roots and other objectionable material removed and disposed of. The subgrade shall then be compacted to the required density.

**MOISTURE CONTROL**

The minimum moisture content of the fill material and foundation shall be such that, when kneaded in the hand, the fill material will form a ball which does not readily separate. The maximum moisture content is when conditions are too wet for efficient use of the hauling and compaction equipment.

**BORROW AREAS**

Borrow areas shall be taken from areas shown or described on the drawings. Unless otherwise shown on the drawings, all borrow areas shall be graded and left so they are well drained, protected from erosion, and may be seeded. Borrow area cut slopes shall have side slopes of 3:1 or flatter unless otherwise shown on the drawings.

**SUBBASE AND SURFACING**

Aggregate for the subbase shall be as required by the drawings and shall be clean and free from deleterious substances. It shall be of such quality that it will bind readily to form a stable subbase to the lines, grades, and cross section shown on the plans.

Surfacing material shall be as required by the drawings. Placement of the surface course shall as shown on the drawings and shall be in accordance with sound highway construction practice for the surface material used.

**VEGETATION**

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

**Additional Details:** \_\_\_\_\_  
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MISSOURI OPERATION AND MAINTENANCE**

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**OPERATION AND MAINTENANCE ACTIVITIES**

- Inspect culverts, roadside ditches, water bars and outlets after each major runoff event and restore flow capacity as needed.
- Minimize the damage to vegetative buffers adjacent to the road when it is necessary to chemically treat the road surface to maintain erosion protection.
- Maintain vegetated areas in adequate cover to meet the intended purpose(s). Apply all herbicides according to label requirements.
- Fill low areas in travel treads and re-grade, as needed, to maintain road cross section.
- Inspect roads with water-bars periodically to insure proper cross section is available and outlets are stable.

**Additional Details:** \_\_\_\_\_  
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