



Natural Resources Conservation Service
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May 30, 2008

NATIONAL ENGINEERING MANUAL 210-500/545 MISSOURI SUPPLEMENT NO. 23

Subject: Missouri Supplement to National Engineering Manual
Purpose: To update engineering policy to the National Engineering Manual.
Effective Date: This supplement is effective upon receipt.
Explanation of Update: This change is to update the following:

Part MO 501.01 – Scope – pertaining to job class I or II engineering approval authority for certain non-NRCS employees operating under the technical supervision of an NRCS employee for practices defined by specific standards in the Technical Guide.

Part MO 503.02 – General Considerations – The excavator is responsible for having all utilities located at the site or on ingress road prior to beginning work. The landowner shall ensure that the excavator completes the utility locate request.

Please note that Missouri Supplements are now available on the Missouri NRCS website, Technical Resources Tab, Engineering Tools and Resources, National Engineering Manual, Missouri Supplements to National Engineering Manual.

Filing Instructions:

<u>Item</u>	<u>Location</u>
Directive Tabulation Sheet	Front of NEM
MO 501-2(1) – MO 501-3(1)	Replaces page MO 501-2(1) – MO 501-3(1)
MO 503-1(1)	Replaces page MO 503-1(1)

Roger A. Hansen
State Conservationist

Attachments

Distribution (via Email except as noted) Holders of NEM that include the following:
Director, National Technical Center, Ft. Worth, TX
All Field Offices (including S&WCD) All Area Offices
All Engineers (hard copy) Engineering Library (hard copy)
State Conservation Engineers (via Email): AR, IA, IL, KS, KY, NE, OK, and TN



DIRECTIVE TABULATION SHEET

TITLE NO. 210 **DIRECTIVE NAME / TYPE** NATIONAL ENGINEERING MANUAL – MISSOURI SUPPLEMENTS

DIRECTIVE NUMBER ^{1/}	ISSUE DATE	PART, SUBPART, PAGES, ETC., OR BULLETIN SUBJECT	FILED BY
Supp. MO-9	08/04/00	MO 542-6(1 thru 24)	
Supp. MO-10	01/26/01	MO 501-1(1), MO-501-2(1), MO-501-3(1), MO 501-6(1), MO 501-7(2), MO 501-12(3 thru 14), MO 503-1(1), MO 503-2(1 thru 4)	
Supp. MO-11	01/31/01	MO 520-10, MO 520-10(a, b, c, & d)	
Supp. MO-12	02/05/01	MO 505-5(1), MO 512-20(1 thru 3), MO 512-21(1 thru 17), MO 512-29(1), MO 512-31(1), MO 520-11(1 thru 5), MO 520-12(1), MO 520-12(b, c & d), MO 531-8(1 thru 3), MO 540-1(1), MO 540-3(1 thru 4), MO 541-2(2), MO 541-6(1 thru 6), MO 541-7(1 thru 6), MO 544-1(1), MO 545-2(1), MO 501-12(1 thru 2), MO 501-12(7 thru 8)	
Supp. MO-13	06/28/01	MO 512-29(1)	
Supp. MO-14	11/04/02	MO 542-6(1-23)	
Supp. MO-15	12/02/03	MO 520.23 and MO 520.28	
Supp. MO-16	03/10/05	MO 520.21, Pages MO 520-10, and MO 520-10a thru 10d	
Supp. MO-17	04/12/05	MO 541-2 (1 thru 2), MO 541-7 (1 thru 5), MO 541-8 (1 thru 6)	
Supp. MO-18	7/18/05	MO 504-2(1), and MO 504-4(1) thru MO 504-4(3)	
Supp. MO-19	9/28/05	MO 511-6(1), MO 512-8(1), MO 512-20(1 thru 4)	
Supp. MO-20	1/22/07	MO 503-1(1), MO 503-2(1), MO 503-2(3 thru 4)	
Supp. MO-21	12/21/07	MO 501-1(1), MO 501-2(1) thru MO 501-3(1), MO 501-4(1) thru (3), MO 501-5(1), and MO 501-7(1)	
Supp. MO-22	1/14/08	MO 503-2(1) thru MO 503-2(5); discard MO 501-12(1) thru (14)	
Supp. MO-23	5/30/08	MO 501-2(1) thru MO 501-3-(1), MO 503-1(1)	
NOTE:		<i>Missouri Engineering Forms used shall be the current version shown in the Missouri Engineering Forms Handbook.</i>	

^{1/} PERMANENT DIRECTIVES: INSERT THE ISSUE, EDITION OR AMENDMENT NUMBER
 BULLETINS: INSERT THE SEQUENCE NUMBER(S), OMIT TITLE AND FY

SUBPART A – REVIEW AND APPROVAL

MO 501.01(b)(3)

§MO 501.01(b)(3) Scope

(3) Non-NRCS employees in Missouri operating under the technical supervision of an NRCS employee, but who are not federal employees and who are not licensed to practice engineering in the state, may be assigned job class I or II engineering approval authority for practices defined by the following standards in section IV of the Technical Guide:

- Diversion (362)
- Grassed Waterway (412)
- Irrigation Land Leveling (464)
- Pipeline (516)
 - (Except those connected to a public water source or supply)
- Spring Development (574)
- Surface Drain Field Ditch (607)
- Terrace (600)
- Watering Facility (614)
- Underground Outlet (620)
- Water and Sediment Control Basin (638)
 - (Maximum fill height of 5 ft. measured from natural ground at centerline of embankment)
- Well Decommissioning (351)

PART 501 – AUTHORIZATIONS

MO 501.03(a)(1)

§MO 501.03(a) Compliance of engineering work with laws and regulations

(1) Technical assistance limitations and responsibility for compliance with laws and regulations.

When construction activities to install a conservation practice will damage other lands or property, or where the work or designed water levels must extend to land beyond the ownership of the producer, the employee shall not assist with construction layout until the necessary easements, right of way, and other legal aspects have been resolved by the producer.

The producer will be responsible for securing all necessary permits and complying with all laws or ordinances. NRCS personnel will not interpret the law or act as an agent for producers in securing permits. NRCS personnel will advise the producer, prior to designing the practice, that there are or may be laws concerning this type of work and to obtain legal assistance as necessary. NRCS personnel may prepare drawings, designs, or plans needed to assist a landowner in completing permit applications within job approval limits.

Before assisting with a practice likely to require a permit, the producer should have, or agree to obtain, permits in accordance with state law and regulations. NRCS personnel will not give assistance under conditions where the producer declines to obtain a required permit or where litigation exists. NRCS personnel shall not be involved in situations where litigation exists regardless of documented evidence of a vested right. Assistance can be resumed or given after all litigation and controversial issues have been resolved.

§MO501.03(c) Compliance of engineering work with laws and regulations

(2)(a) Plans submitted to regulatory agencies for review, approval, or granting permits can be approved by persons having an appropriate design approval limit for the practice.

(3)(a) Plans that state law requires be prepared under the direct supervision of a registered professional engineer can be approved by registered professional engineers in Missouri who have an appropriate design approval limit for the practice.

PART 503 – SAFETY

MO503.02(f)

§MO503.02 General Considerations

(f) Missouri's One Call Law identifies contractors as "excavators" on a project. By law, excavators have the entire responsibility for notifying the One Call vendor. Since NRCS primarily works with landowners, NRCS will require landowners to provide documentation that Missouri One Call has been notified. The exception will be project activities where NRCS is administering a construction contract, in which case the contractor shall provide the documentation.

(g) NRCS will include the public land survey system (PLSS) description and NAD 83 Latitude and Longitude (LAT: / LON:) on every set of drawings or data sheets developed for construction. The PLSS description shall include the quarter section, section, township, and range. NRCS shall include a note or stamp on these drawings and data sheets which states the following:

The excavator is responsible for having all utilities located at the site or on ingress road prior to beginning work. Missouri One Call Number is 800-344-7483 (1-800-DIG-RITE). The landowner shall ensure that the excavator completes the utility locate request.

(h) As of January 31, 2007, NRCS Missouri field offices will not be required to maintain a county utility map. If a field office chooses to maintain and update the county utility maps, then area office concurrence must be obtained on all updates to ensure the accuracy of the updated utility location. Public display of the utility maps is not required or recommended.

(i) If a utility line is damaged or an individual is harmed or injured as a result of equipment performing on a job which NRCS has contracted or provided technical assistance, the Area Conservationist (AC) will be immediately notified. In turn, the AC will notify the State Conservationist.