

STANDARD SPECIFICATION

33-15-65

FEBRUARY 1985

FOR

EARTH-COVERED
STEEL ARCH MAGAZINES

DEPARTMENT OF THE ARMY
OFFICE OF THE CHIEF OF ENGINEERS
WASHINGTON, D. C.

GENERAL NOTES

1. This standard specification is to be used in the preparation of project specifications in accordance with ER 1110-345-720. It will not be made a part of a contract merely by reference; pertinent portions will be copied verbatim into the contract documents.
2. The designations for publications listed in the Applicable Publication paragraphs are those that were in effect when this standard specification was being prepared.
3. Additions to or deletions from this standard specification will be only that which is necessary to adapt the specification to site conditions such as foundation design or abnormal climate conditions.
4. This specification is intended to be used in specifying Earth Covered Steel Arch Magazines as shown on the following drawings:

<u>Drawing No.</u>	<u>Sheet No.</u>	<u>Title</u>
33-15-65	1	8'-0" and 10'-0" Widths Plans, Sections and Details
33-15-65	2	12'-0" and 14'-0" Widths Plans, Sections and Details
33-15-65	3	Front and Rear Wall Details
33-15-65	4	Door and Miscellaneous Details
33-15-65	5	Lighting, Wiring and Lightning Protection
33-15-65	6	Typical Grading Plan and Miscellaneous Details

5. The following Corps of Engineers Guide Specifications were used in preparation of this standard specification:

<u>Section No.</u>	<u>Title</u>	<u>Guide Specifications No./ Date/Latest Notice</u>
2A	Excavation, Filling and Backfilling for Buildings	CEGS-02201/May 78/N6
2B	Foundation Drainage System	CEGS-02450/Dec 82/N3
3A	Concrete for Building Construction	CEGS-03300/Apr 79/N12
5A	Doors and Miscellaneous Metals	CEGS-05500/Oct 67/N7

<u>Section No.</u>	<u>Title</u>	<u>Guide Specifications No./ Date/Latest Notice</u>
9A	Painting, General	CEGS-09910/Jan 78/N7
	Electrical Work, Interior	CEGS-16415/Nov 83
	Lightning Protection System	CEGS-16601/Sept 81/N5

TECHNICAL NOTES

1. Section 2A

a. Paragraph 2.6: Sand and gravel filter materials gradations must be designed for the particular conditions present at each individual site. Guidance on filter design is contained in TM 5-820-2.

b. Paragraph 2.7: Indicate maximum allowable particle size, based on site conditions.

c. Paragraph 4.: Indicate depth of topsoil removal.

d. Paragraph 5.4: If excavation will be unclassified, delete second choice and paragraphs 5.4.1 and 5.4.2.

e. Paragraph 5.5: If blasting will be permitted, provide reference to appropriate safety standards for blasting.

f. Paragraph 5.8: Define source, extent, and quality of available borrow at the site. Delete bracketed text if bidding is on a lump sum basis.

g. Paragraph 6: (a) Select appropriate test method(s) for the particular site. (b) Determine requirements for moisture content control of fill material and provide allowable limits. (c) Provide specific types and frequencies of tests required for the particular site in question.

h. General: Ground cover over igloos must be added to this section as required by local conditions. This cover should be grass only and should not be any species with roots that would penetrate deeper than the 4-inch topsoil layer.

2. Section 2B, Paragraph 4: Select materials for contract requirements. Correlate materials with other sections. When design requires pipe to be of a particular quality, strength, or bituminous coated, acceptable options shall be retained and specification requirements modified accordingly. Thickness of metal pipe will be shown on the drawings. Drain tile shall not be used for drains crossing or adjacent to paved areas. Special-quality concrete drain tile shall be specified for tile laid on soils that are acidic or contain unusual quantities of sulphates. Porous concrete pipe and perforated corrugated aluminum alloy pipe shall be deleted if soils are acidic or contain unusual quantities of sulphates. Perforated asbestos-cement pipes shall be specified by type where required by soil or water conditions.

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