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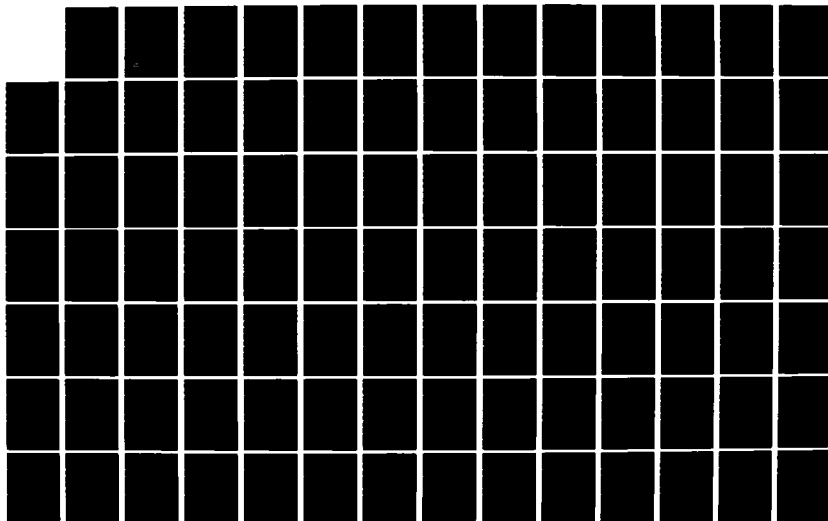
EDITSPEC: BASIC PROCEDURES MANUAL(U) CONSTRUCTION
ENGINEERING RESEARCH LAB (ARMY) CHAMPAIGN IL E S NEELY
15 NOV 81 DOD/DF-83/002A

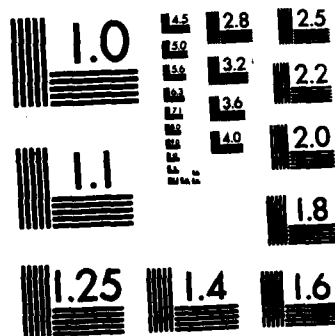
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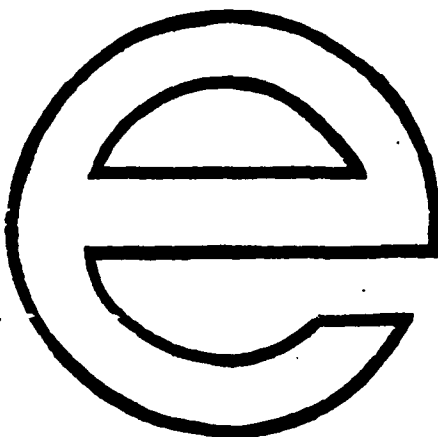
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Basic Procedures Manual



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US Army Corps
of Engineers

Automated Construction Specification System

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EDITSPEC
BASIC PROCEDURES MANUAL

15 November 1981



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INTRODUCTION

1. PURPOSE.

The purpose of this manual is to provide a written description of procedures required to apply EDITSPEC to produce construction specifications. The EDITSPEC system provides many different methods to perform each procedure. Only the simplest method is presented. After mastering the commands mentioned in these procedures, the complete EDITSPEC user manual should be studied to learn other applications for performing assigned tasks. Also included are procedures for the specification writer in preparing specification sections.

2. EQUIPMENT.

The characteristics of the computer terminals required to interact with the EDITSPEC system and produce an acceptable product are as follows:

- a. ASCII code
- b. Upper and lower case
- c. Twelve characters per inch
- d. Six lines per inch
- e. Solid characters
- f. One hundred and thirty-two characters per line width

The Government has a requirements contract for a Qume Sprint 5 Series terminal, manufactured by the ALANTHUS Corporation, Rockville, MD. Each Corps office performing military construction will be furnished a copy of this requirements contract. A delivery order may be written for terminals, as needed.

3. COMPUTER SERVICES.

The Government maintains a unit price requirements contract for all computer services. Each Corps office will be furnished a copy of this contract, to which a delivery order may be written for computer services.

4. EDITSPEC ACCESS.

a. User ID. The Government maintains the EDITSPEC system. Supervisory access to the system will be given to the Chief of Specifications. The Chief of Specifications can give access to supervisors and users under the Chief of Specifications control. A unique two-digit preassigned prefix will be provided each Corps office to be used for all user identification numbers assigned. This prefix must be used by all personnel.

b. Account Numbers. One EDITSPEC account number will be given to the Chief of Specifications. The Chief of Specifications can give supervisors and users access to this EDITSPEC account number. When specifications are developed by Architect-Engineer firms, the project specification writer must provide the government reviewer access to all the project sections for review and approval. All documents (sections) related to the same project are assigned the same first four prefix characters in the twelve character document name. The Government will provide the four characters to be applied when a project is being prepared by an Architect-Engineer. (Example: The Corps of Engineers Guide Specifications have a prefix "CEGS".)

c. Data Sets. Each data set, in the EDITSPEC system, is identified by a unique six-character name. The first two characters of the name indicate the Government office for which the project is being designed. The third and fourth characters indicate the project and the fifth and sixth characters are used to indicate data sets within the project.

The digits '0', '1', '2', and '3' are not valid characters for the first character of the project data set name. The characters '0' and '1' are used to indicate active guide specification data sets. The characters '2' and '3' are used to indicate inactive or superseded guide specification data sets.

5. PROBLEM SOLVING.

The Government maintains a HOT LINE to help solve problems and answer questions. All users are encouraged to use this service to improve productivity and to learn the EDITSPEC system as quickly as possible.

HOT LINE: 205-895-5229 (Commercial)
8-873-5229 (FTS)

PROCEDURE 1

ENTER AND EXIT THE EDITSPEC SYSTEM

1. GENERAL DESCRIPTION.

In order to get into EDITSPEC two logons are required. First you must logon in the time sharing operation and answer the questions that the computer will ask you. There will be three questions before the user can logon to EDITSPEC as shown below.

2. PROCEDURES.

System responses are typed in upper case letters. The user types the answers to the questions in lower case as specified after the word 'Type:'.

Step 1. Dial the phone number for the computer. Upon hearing the tone of the computer, connect the telephone to the moden.

Depress Return Key (Return).

Step 2. Type: tso (to enter the time sharing operation)
Return

WELCOME TO NVIP
PLEASE SIGN ON

NOTE: You are now ready to logon to time sharing operation.

Step 3. Type: logon_user id/password_size(2500)_a(account number)
Return

'USER ID' LOGON IN PROGRESS AT 'CURRENT TIME' ON 'CURRENT DATE'
*** WELCOME TO N.V.I.P. 033d TIME SHARING OPTION ***
*** USE THE NEWS COMMAND FOR CURRENT INFORMATION ***
**** news was updated as of 'DATE UPDATED' *****

***** THE DATE IS: 'CURRENT DATE' *****
***** THE TIME IS: 'CURRENT TIME' *****

DO YOU WANT TO INPUT DATA FROM THE DISKETTE
ENTER YES OR NO

Step 4. Type: no
Return

DO YOU WANT A LIST OF THE .OUT. DATA SETS?
ENTER 'NO' TO PROCEED DIRECTLY TO EDITSPEC

Step 5. Type: no
Return

DO YOU WANT TO GET INTO THE EDITSPEC SYSTEM?
ENTER 'NO' TO PROCEED TO THE LISTING OF THE DOCUMENT DATASETS
ENTER 'YES' TO PROCEED DIRECTLY INTO EDITSPEC

Step 6. Type: yes
Return

NOTE: There will be a short wait before the date is
typed followed by a carriage return and a period.
The period is your prompt to logon to EDITSPEC.

DATE: 'CURRENT DATE'

Step 7. Type: .logon_user id;account number;password.
Return

. *** USER LOGGED-ON TO EDITSPEC SYSTEM.
THE PRESENT TIME IS 'CURRENT TIME'
THE PRESENT DATE IS 'CURRENT DATE'

NOTE: After this message, a period will be printed which
is your prompt to enter a command. The period will be
printed each time the computer has processed a command
in EDITSPEC to let you know it is now ready for the
next command. You will remain in EDITSPEC until a logof
command is issued.

Step 8. Type: .logof.
Return

. *** USER LOGGED-OFF EDITSPEC SYSTEM.

***END-OF-INPUT ENCOUNTERED.
. *****JOB HAS BEEN TERMINATED *****
DO YOU WANT TO LIST ANY OF THE DOCUMENT DATASETS(YES OR NO)

Step 9. Type no
Return

NOTE: There will be a short wait before the system response.

DO YOU WANT TO LIST EITHER OF THE PRINT DATASETS
ENTER NO TO PROCEED WITH LOGOFF

Step 10. Type no
Return

DO YOU WISH TO CONTINUE WITH EDITSPEC? (YES OR NO)

Step 11. Type no
Return

DO YOU WISH TO TERMINATE THIS SESSION? (YES OR NO)
IF 'NO' WILL RETURN TO EDITSPEC

Step 12. Type yes
Return

DO YOU WISH TO LOGON WITH ANOTHER ID?

Step 13. Type no
Return

TIME-'CURRENT TIME' CPU-'CPU TIME' SERVICE-'SERVICE NUMBER' SESSION-'TIME'
DATE-'Current Date'

***** THE CONNECT TIME IS LISTED AS SESSION ON *****

***** THE ABOVE LINE. THE CONNECT TIME CHARGE *****

***** IS 13 CENTS/MINUTE *****

TOTAL SYSTEM RESOURCES USED FOR THIS SESSION

EXECUTION WAS DURING NORMAL WORKING DAY

THE CPU TIME IN HUNDREDTHS OF SECONDS: 'CPU TIME'

THE EXCP COUNT (IO): 'EXCP COUNT'

THE COST ASSOCIATED WITH CPU AND EXCP UTILIZATION IS: 'COST'

'USER ID' LOGGED OFF TSO AT 'CURRENT TIME' ON 'CURRENT DATE'

LAST STEP COMPLETION CODE WAS USER 000

Session Complete

PROCEDURE 2

CREATING EDITSPEC ACCOUNT NUMBERS, USER ID'S, AND GRANTING ACCESS

1. GENERAL DESCRIPTION.

All resources, including account numbers and user id's, must be easily identified with the user's office/agency. The first two characters of all account numbers, user id's, data set names, and document names are mandatory and indicate the office controlling resources.

2. ACCOUNT NUMBERS.

The account numbers are usually related to projects. The third and fourth characters are mandatory and indicate the standard project identifier. The fifth through the twelfth characters are optional and can be applied in any manner such as subaccounting information by division, branch, and section. One example is as follows:

.acco	99	mx	01	02	1.	
						Specification Section
						Spec. and Est. Branch
						Engineering Division
						Mix Plant (project)
						Office (Peoria)

3. USER ID.

Users are divided into two categories, supervisors and nonsupervisors. Each user has a unique id up to twelve alphanumeric characters, and should be related to the organizational structure of the office. The first two characters are mandatory; i.e., characters 1 and 2 are used for the office designation, 3 and 4 should be used for the office location. The remaining alphanumeric characters (5 thru 12) may be used. An example of the 12 alphanumeric character id is as follows:

<u>Character</u>	<u>Definition</u>	<u>Example</u>
1-2	Office	99 (preassigned id for Peoria)
3-4	Location	00 inhouse 01 Contractor No. 1 02 Contractor No. 2
5-6	Division	01 Engineering
7-8	Branch	02 Specs and Estimate
9	Section	1 Specs
10-12	Personnel	abc

COMMAND

.user_990001021abc.

4. ACCESS:

The user must be given access to previous account numbers by the access command (.acce). Only a supervisor having access to an account may grant access to another user. Supervisor 99mx01021aaa wishes to grant access to a new user.

COMMANDS

.acco_99mx01021.

.user_990001021abc.

.acce_;99mx01021;990001021abc.

PROCEDURE 3

SENDING MESSAGES WITHIN EDITSPEC

1. GENERAL DESCRIPTION.

The .mess command is used to send a message to another EDITSPEC user. The user will receive the message as soon as a .logon or .logof command is issued.

2. COMMANDS.

user to receive message
↓
.mess 990001021abc;(A new guide specification
._CEGS-16415, superseding CE-301.01 is in
._the EDITSPEC system and available for use.).
↑
message

PROCEDURE 4

OBTAIN A CURRENT COPY OF A CORPS OF ENGINEERS GUIDE SPECIFICATION FOR TEXT EDITING

1. GENERAL DESCRIPTION.

The user has a requirement for an up-to-date copy of guide specification CEGS-04200 to be used in project "99mx". In order to automatically receive all messages/notices of changes to the guide specification, a .noti command will be issued as soon as the user has logged into EDITSPEC.

2. PROCEDURES:

System responses are typed in upper case letters. The user types the answers to the questions as specified after the word 'Type:'.

Step 1. Dial the phone number for computer.
Depress Return Key (Return)

Step 2. Type: tso (to enter the time sharing operation
Return
Welcome to NVIP
PLEASE SIGN ON

Step 3. Type: logon_user id/password_size(2500)_a(account no.)
Return

```
'User ID' LOGON IN PROGRESS AT 'CURRENT TIME' 'CURRENT DATE'
*** WELCOME TO N.V.I.P. 033d TIME SHARING OPTION ***
*** USE THE NEWS COMMAND FOR CURRENT INFORMATION ***
**** news was updated as of 'DATE UPDATED' ****
*****
***** THE DATE IS: 'CURRENT DATE' *****
***** THE TIME IS: 'CURRENT TIME' *****
*****
```

```
DO YOU WANT TO INPUT DATA FROM THE DISKETTE
ENTER YES OR NO
```

Step 4. Type: no
Return

```
DO YOU WANT A LIST OF THE .OUT. DATA SETS?
Enter 'No' To Proceed directly to EDITSPEC
```

Step 5. Type: no
Return

```
DO YOU WANT TO GET INTO THE EDITSPEC SYSTEM?
ENTER 'NO' TO PROCEED TO THE LISTING OF THE DOCUMENT
DATA SETS
ENTER 'YES' TO PROCEED DIRECTLY INTO EDITSPEC
no - to proceed to the listing of the document data sets
yes - to proceed directly into EDITSPEC
```

Step 6. Type: yes
Return

Type the following EDITSPEC commands to receive messages and notice changes to the guide specification.

Step 7. .logon spec writer user id; spec writer account number; password.
.noti (cegs04200.00).
.logof.

*** USER LOGGED-OFF EDITSPEC SYSTEM.

***END-OF-INPUT ENCOUNTERED.

DO YOU WANT TO LIST ANY OF THE DOCUMENT DATA SETS (YES OR NO)

(unformatted working copy and printed formatted version created by the .gs command).

no - to continue logoff procedure

yes - to list document data sets

Step 8. Type: yes
Return

DO YOU WANT TO LIST CATALOG OF THE DOCUMENT DATA SETS

no - no catalog listed

yes - catalog will be listed immediately

Step 9. Type: no
Return

DO YOU WISH TO REVIEW ANY OF THESE DATA SETS
ENTER 'NO' TO PROCEED WITH LOGOFF PROCEDURE

yes - to review data sets

no - to proceed with logoff procedure

Step 10. Type: yes
Return

WHICH DATA SET DO YOU WANT TO LIST?

THE DATA SET NAME IS OF THE FORMAT

YYYY.EDTSPC.GUID.C1.PXXXXXX.PXXXXXX OR

YYYY.EDTSPC.GUID.D1.PXXXXXX.PXXXXXX WHERE

THE YYYY IS THE CREATOR ID FOR A SET OF DOCUMENTS

THE FIRST SIX X'S ARE THE FIRST 6 CHARACTERS OF THE DOCUMENT NAME AND

THE LAST SIX X'S ARE THE LAST SIX CHARACTERS IF THEY EXIST

NOTE THAT ANY PERIOD(.) IN THE DOCUMENT SHOULD BE CHANGED

TO AN ALPHABETIC P I.E. CEGS.00 IS CEGSPOO

Step 11. Type: e795.edtspc.guid.c1.pcegs04.p200p00 (for working copy of an OCE guide specification)
Return

yes - if data set name is correct
no - if data set name is incorrect
The system will respond with the message 'REENTER THE
DATA SET NAME'. The user reenters the data set name until
a 'yes' is issued, verifying that the data set name is
correct.)

Step 12. Type: yes
Return

IF YOU WANT THIS DATA SET PRINTED AT CENTRAL SITE ENTER 'C'
IF YOU WANT THIS DATA SET PRINTED AT THIS TERMINAL ENTER 'T'

c - central site printing (The system will submit a job
number.)
t - immediately printed at terminal

Step 13. Type: t
Return

LISTING OF DATA SET STARTS AT: 'CURRENT TIME'
(C1 DATA SET LISTED)
LISTING OF DATA SET ENDS AT: 'CURRENT TIME'
DO YOU WISH TO REVIEW OR DELETE ANY OTHER DATA SETS?
ENTER 'NO' TO CONTINUE WITH EDITSPEC

yes - another document data set needs to be listed
(loops to question 'WHICH DATA SET DO YOU WANT TO LIST?')
no - continue with EDITSPEC or the logoff procedure

Step 14. Type: no
Return

DO YOU WANT TO LIST EITHER OF THE PRINT DATA SETS
ENTER NO TO PROCEED WITH LOGOFF

Step 15: Type: no
Return

DO YOU WISH TO CONTINUE WITH EDITSPEC? (YES OR NO)

Step 16: Type: no
Return

DO YOU WISH TO TERMINATE THIS SESSION: (YES OR NO)
IF 'NO' WILL RETURN TO EDITSPEC

Step 17: Type: Yes
Return

DO YOU WISH TO LOGON WITH ANOTHER ID?

Step 18: Type: no
Return

TIME-'CURRENT TIME' CPU-'CPU TIME' SERVICE-'SERVICE NUMBER' SESSION-'TIME'
DATE-'Current Date'

***** THE CONNECT TIME IS LISTED AS SESSION ON *****
***** THE ABOVE LINE. THE CONNECT TIME CHARGE *****
***** IS 13 CENTS/MINUTE *****

TOTAL SYSTEM RESOURCES USED FOR THIS SESSION
EXECUTION WAS DURING NORMAL WORKING DAY
THE CPU TIME IN HUNDREDTHS OF SECONDS: 'CPU TIME'
THE EXCP COUNT (IO): 'EXCP COUNT'
THE COST ASSOCIATED WITH CPU AND EXCP UTILIZATION IS: 'COST'
'USER ID' LOGGED OFF TSO AT 'CURRENT TIME' ON 'CURRENT DATE'
LAST STEP COMPLETION CODE WAS USER 000

PROCEDURE 5

OBTAIN A COPY OF CE GUIDE SPECIFICATION AND DESIGN CONDITION CHECKLIST FOR AUTOMATIC GENERATION

1. GENERAL DESCRIPTION.

A specification writer has requested an up-to-date copy of CEGS-04200 and the design condition checklist to be used to produce a project section. As soon as the operator enters the EDITSPEC system a .noti command must be given to enable the specification writer to receive all messages and notice changes related to CEGS-04200.

2. PROCEDURES.

System responses are typed in upper case letters. The user types the answers to the questions as specified after the word 'Type:'.

Step 1. Dial the phone number for the computer
Depress Return Key (Return)

Step 2. Type tso (to enter the time sharing operation)
Return

WELCOME TO NVIP
PLEASE SIGN ON

Step 3. Type: logon_user id/password_size(2500)_a(account number)
Return

'User ID' LOGON IN PROGRESS AT 'CURRENT TIME' 'CURRENT DATE'
*** WELCOME TO N.V.I.P. 033d TIME SHARING OPTION ***
*** USE THE NEWS COMMAND FOR CURRENT INFORMATION ***
**** news was updated as of 'DATE UPDATED' ****

***** THE DATE IS: 'CURRENT DATE' *****
***** THE TIME IS: 'CURRENT TIME' *****

DO YOU WANT TO INPUT DATA FROM THE DISKETTE
ENTER YES OR NO

Step 4. Type: no
Return

DO YOU WANT A LIST OF THE .OUT. DATA SETS?
ENTER 'NO' TO PROCEED DIRECTLY TO EDITSPEC

Step 5. Type: no
Return

DO YOU WANT TO GET INTO THE EDITSPEC SYSTEM?
ENTER 'NO' TO PROCEED TO THE LISTING OF THE DOCUMENT DATASETS
ENTER 'YES' TO PROCEED DIRECTLY INTO EDITSPEC

Step 6. Type: yes
Return

NOTE: Type the following EDITSPEC commands to receive
messages for CEGS-04200.

DATE: 'CURRENT DATE'

Step 7. Type: .logon_spec writer user id;spec writer user
account number;password.
Return

Step 8. Type: .not1 (cegs04200.00).
Return

Step 9. Type: .logon_user id;account no;password.
Return

. *** USER LOGGED-OFF EDITSPEC SYSTEM
. *** USER LOGGED-ON EDITSPEC SYSTEM
THE PRESENT TIME IS 'CURRENT TIME'
THE PRESENT DATE IS 'CURRENT DATE'

Step 10. Type: .edit (cegs04200.00).
Return

ENTER A DESCRIPTION OF THE WORK TO BE PERFORMED

Step 11. Type: 2.3
Return

TIME: 'CURRENT TIME' DATE: 'CURRENT DATE'
*** SYSTEM IN EDIT-MODE: CYCLE NUMBER: 'CURRENT CYCLE'

Step 12. Type: .pr_16;1,x;void,not1,not2;;1;1;;;;;;3.
Return

****.OUT NO16.T171119 WAS ALLOCATED AS THE TERMINAL FILE
THIS DOCUMENT WAS NOT GENERATED FROM ANOTHER DOCUMENT.
*** LOGIC CONDITIONS TABLE IS EMPTY.
COMMAND IGNORED BUT PROCESSING CONTINUES.
THE TERMINAL OUTPUT DATA SET WAS SUCCESSFULLY STORED AND
DEALLOCATED

Step 13. Type: .logof.
Return

COMMAND ISSUED:
'CURRENT TIME' DATE 'CURRENT DATE'
ELAPSED TIME OF EDIT/STORE SESSION: MINUTES.
*** EXIT EDIT MODE.
*** USER LOGGED-OFF EDITSPEC SYSTEM.
*** END-OF-INPUT ENCOUNTERED.
*****JOB HAS BEEN TERMINATED *****

DO YOU WANT TO LIST ANY OF THE DOCUMENT DATA SETS (YES OR NO)

Step 14. Type: no
Return

DO YOU WANT TO LIST EITHER OF THE PRINT DATA SETS
ENTER NO TO PROCEED WITH LOGOFF

Step 15. Type: no
Return

DO YOU WISH TO CONTINUE WITH EDITSPEC? (YES OR NO)

Step 16. Type: no
Return

DO YOU WISH TO TERMINATE THIS SESSION? (YES OR NO)
IF 'NO' WILL RETURN TO EDITSPEC

Step 17. Type: no
Return

DO YOU WANT A LIST OF THE .OUT. DATA SETS?
ENTER 'NO' TO PROCEED DIRECTLY TO EDITSPEC

Step 18. Type: yes
Return

THE FOLLOWING DATA SETS ARE AVAILABLE TO BE LISTED OR DELETED
NONVSAM ----- XXXX.OUT.NO16.T171119
IN-CAT ---- SYSCTLG.VSHAR01
DO YOU WISH TO REVIEW OR DELETE ANY OF THESE DATA SETS?
ENTER 'NO' TO PROCEED DIRECTLY WITH EDITSPEC

Step 19. Type: yes
Return

DO YOU WANT TO LIST OR DELETE THE DATA SET?
ENTER L FOR LIST OR DEL FOR DELETE

Step 20. Type: 1
Return

WHICH DATA SET DO YOU WANT TO LIST/DELETE?

Step 21. Type: xxxx.out.nol6.t171119
Return

LISTING OF DATA SET STARTS AT: 'CURRENT TIME'

Document will be printed as requested.

THE FOLLOWING DATA SETS ARE AVAILABLE TO BE LISTED OR DELETED

NONVSAM ----- XXXX.OUT.NO16.t171119

IN-CAT ----- SYSCTLG.VSHARRO1

DO YOU WISH TO REVIEW OR DELETE ANY OF THESE DATA SETS?
ENTER 'NO' TO PROCEED DIRECTLY WITH EDITSPEC

Step 22. Type: yes
Return

DO YOU WANT TO LIST OR DELETE THE DATA SET?
ENTER L FOR LIST OR DEL FOR DELETE

Step 23. Type: del
Return

WHICH DATA SET DO YOU WANT TO LIST/DELETE?

Step 24. Type: xxxx.out.nol6.t171119
Return

THE FOLLOWING DATA SETS ARE AVAILABLE TO BE LISTED OR DELETED

THERE ARE NO DATA SETS AVAILABLE TO BE LISTED OR DELETED
SESSION CONTINUING WITH EDITSPEC

DO YOU WANT TO GET INTO THE EDITSPEC SYSTEM?
ENTER 'NO' TO PROCEED TO THE LISTING OF THE DOCUMENT DATASETS
ENTER 'YES' TO PROCEED DIRECTLY INTO EDITSPEC

Step 25. Type: no
Return

DO YOU WANT TO LIST ANY OF THE DOCUMENT DATASETS (YES OR NO)

Step 26. Type: no
Return

DO YOU WANT TO LIST EITHER OF THE PRINT DATASETS
ENTER NO TO PROCEED WITH LOGOFF

Step 27. Type: no
Return

DO YOU WISH TO CONTINUE WITH EDITSPEC? (YES OR NO)

Step 28. Type: no
Return

DO YOU WISH TO TERMINATE THIS SESSION? (YES OR NO)
IF 'NO' WILL RETURN TO EDITSPEC

Step 29. Type: yes
Return

DO YOU WISH TO LOGON WITH ANOTHER ID?

Step 30. Type: no
Return

TIME-'CURRENT TIME' CPU-'CPU TIME' SERVICE-'SERVICE NUMBER' SESSION-'TIME'
DATE-'Current Date'

***** THE CONNECT TIME IS LISTED AS SESSION ON *****
***** THE ABOVE LINE. THE CONNECT TIME CHARGE *****
***** IS 13 CENTS/MINUTE *****

TOTAL SYSTEM RESOURCES USED FOR THIS SESSION
EXECUTION WAS DURING NORMAL WORKING DAY
THE CPU TIME IN HUNDREDTHS OF SECONDS: 'CPU TIME'
THE EXCP COUNT (IO): 'EXCP COUNT'
THE COST ASSOCIATED WITH CPU AND EXCP UTILIZATION IS: 'COST'
'USER ID' LOGGED OFF TSO AT 'CURRENT TIME' ON 'CURRENT DATE'
LAST STEP COMPLETION CODE WAS USER 000

PROCEDURE 6

PREPARE TEXT FOR ENTRY INTO THE EDITSPEC SYSTEM

1. GENERAL.

Project unique text, prepared by the specification writer must be properly coded for incorporation in the project specification section. The operator must know how to apply the EDITSPEC internal format commands.

2. GUIDANCE.

Chapter 4, Command Methodology of the user manual has the commands listed by activity for ease of learning the commands. Required format codes for the standard print format adopted by the Corps of Engineers are contained in Appendix B. The following examples are provided to aid the user in coding text.

a. An example of coding of page one of a guide specification using commands listed below, is shown in Figure 6.1:

Commands

si3	instructs the system to increment the third subfield of the page numbering format when printing a project specification
*bp	begin paragraph numbering with 1
*hs	defines the header storage text and it's location on the printed page
*lj	left justify
u	underscore
ue	underscore end
*cj	center justify
sl	skip line
sl4	skip 4 blank lines
rj(B) *sl*	right justify (B) and skip line
p2a26	standard paragraph identifier for automatic section identifier in a project section
sl1 *rj(C)* *np* *sl*	skip one line, print note identifier (C) right justified, depress the normal line skipping for the next paragraph, return to the next line

*tc	enter into the table of contents
p1	first level of defined paragraph format
p2	second level of defined paragraph format
tb 250	beginning of a table to be formatted as defined by table format 250
r	beginning of a row
\$	column separator character
te	end of a table

b. Figure 2 is an example of coding required to define the first page to be printed of a project specification section, block text that is to always appear on the same page, to reset paragraph numbering within the text, and how to indicate the end of a line to be stored in EDITSPEC. The following commands were used in the example:

Commands:

bp 26;9,F	Reset the *p2a26* for Section 9G, last section was 9F
bn 26;3;9,G,1	begin page numbering with 9G-1
p2a26	standard paragraph identifier for automatic section number
*cj	center justify
*tc	add character string to table of contents
p1	first level of defined paragraph format
p2	second level of defined paragraph format
tb 250	beginning of table to be formatted as defined in table format 250
r	row
\$	column separator character
te	end of table
sl	skip to next line
*fl	text marked by a flag command to indicate the designer must make a choice

b	beginning of text to be blocked
be	ending of text to be blocked
/	begin a new line

c. Figure 3 is an example of coding required to define placing a table on a separate page, indicate table headings, and tablenotes, by using the following commands:

Commands:

sp	skip page
tb 24011	beginning of table to be formatted as defined by table format 024011
r	row
\$	column separator character
*n	tablenote (to be automatically numbered)
te	end of table

di3
 bp 1:0
 hs CEGS-04401 (November 1978) 3
 lj DEPARTMENT OF THE ARMY /
 lj OFFICE OF THE CHIEF OF ENGINEERS

*lj (-13) CEGS-04401 *- *al*
 u - *lj (-13) November 1978 *- *ue* - *al*
 *lj (-13) Superseding *- *al*
 *lj (-13) CE-04401 *- *al*
 *lj (-13) December 1976 *- *al4*

*cj CORPS OF ENGINEERS GUIDE SPECIFICATION *- *al*
 *cj MILITARY CONSTRUCTION *- *al4*

*nj (B) *- *al*
 *cj SECTION *- *al1* (B)
 *p2a26 *- *al*
 *cj - *nj (A) *- *al*
 *cj - *nj (C) *- *np* - *al*
 *cj - *nj (C) *- *np* - *al*
 *cj - *nj (C) *- *np* - *al*

*tc 1: *lj (-13) APPLICABLE PUBLICATIONS: The publications listed below form a part (C)
 of this specification to the extent referenced. The publications are
 referred to in the text by the basic designation only.

p2
 *tc 1: *lj (-13) American Society for Testing and Materials (ASTM) Publications: *- *al1*
 *tc 1: *lj (-13) 250* *al*
 *tc 1: *lj (-13) C 97-47 (R 1977) - \$ - Test Methods for Absorption and Bulk
 Specific Gravity of Natural Building
 Stone.

*tc 1: *lj (-13) C 99-52 (R 1976) - \$ - Test Method for Modulus of Rupture of
 Natural Building Stone.

*tc 1: *lj (-13) C 119-74 - \$ - Definitions of Terms Relating to
 Natural Building Stones.

*tc 1: *lj (-13) C 241-51 (R 1976) - \$ - Test for Abrasion Resistance of Stone
 Subjected to Foot Traffic.

*tc 1: *lj (-13) C 568-67 (R 1977) - \$ - Dimension Limestone.

*tc 1: *lj (-13) C 615-68 (R 1977) - \$ - Structural Granite.

*tc 1: *lj (-13) C 616-68 (R 1977) - \$ - Building Sandstone.

*tc 1: *lj (-13) C 629-68 (R 1977) - \$ - Structural Slate.

*tc 1: *lj (-13) Marble Institute of America (MIA) Publication: *- *al1*
 *tc 1: *lj (-13) 251*
 *tc 1: *lj (-13) Marble Design Manual I-R.

*tc 1: *lj (-13) SUBMITTALS: *- *al1*
 *tc 1: *lj (-13) Shop Drawings: Shop drawings shall be submitted for approval in
 accordance with the SPECIAL PROVISIONS. Shop drawings shall indicate
 the details of jointing, number and location of anchors, anchorage system,
 and setting diagrams.

Figure 6.1. Guide Specification, Page 1.

bp-26; 9, F

bn-26; 3; 9, G, 1

p2a26- *sl1*

SECTION 9G-

*tc 1; *pl*^{cj} FURRING, METAL, LATHING, AND PLASTERING *- *sl*

X. APPLICABLE PUBLICATIONS. The publications listed below form a part of this specification to the extent referenced. The publications are referred to in the text by the basic designation only.

p2

1. Federal Specifications (Fed. Spec.): *sl1*

tb 250

r-QQ-L-101c - \$ - Lath, Metal, (and Other Metal Plaster Bases) *sl*

r-QQ-N-281D - \$ -

Nickel-Copper Alloy Bar, Rod, Plate,
Sheet, Strip, Wire, Forgings, and
Structural and Special Shaped Sections

tc

p2

2. American National Standards Institute, Inc. (ANSI) Standard: *sl1*

tb 250

r-A42.4-1967 - \$ - Specifications for Interior Lathing and
Furring

tc

3. American Society for Testing and Materials (ASTM) Publications: *sl1*

tb 250

r-A 109-72 *sl*- \$ - Steel, Carbon, Cold-Rolled Strip
(R 1979) *sl* - \$ -

r-A 570-79 - \$ - Hot-Rolled Carbon Steel Sheet and Strip,
Structural Quality *sl*

r-C 28-80 - \$ - Gypsum Plasters *sl*

r-C 29-78 - \$ - Unit Weight and Voids in Aggregate *sl*

r-C 35-76 - \$ - Inorganic Aggregates for Use in Gypsum
Plaster

tc *tc 1; *pl*^{cj} - *sl1; \$ \$

2. GENERAL: Gypsum plaster with Keene's cement finish as included herein shall be applied as specified hereinafter to those areas indicated in the finish schedule. Ceilings shall include exposed overhead surfaces. Metal framing and furring systems for application of metal plaster base on ceilings, are included. Plaster base coat proportions are given in Table II, and the required types or thickness of lath are in Table I at the end of this section. Ends of wire ties used for lathing and furring shall receive three full twists and be bent into the plane of the lath.

be

Figure 6.2. Project Specifications Section, Page 1.

sp

tb24011

th	*u*	Plaster base	*ue*	-\$	*u*	Thickness of plaster	*ue*
r		Metal plaster base	—	\$	—	5/8 inch, minimum	(1) *n*
r		Gypsum plaster base	—	\$	—	1/2 inch, minimum 3/4 inch, minimum for furred walls with 3/8-inch lath	
r		Masonry walls	—	\$	—	5/8 inch, minimum	
r		Concrete walls	—	\$	—	5/8 inch, maximum	
r		Concrete ceilings	—	\$	—	1/8 inch, minimum 3/8 inch, maximum	(2) *n*

(1) The total plaster thickness from the back plane of the metal plaster base exclusive of ribs shall be not less than 3/4 inch.*

(2) Concrete ceilings requiring plaster more than 3/8-inch thick to produce the required lines and surfaces shall be lathed with ribbed or self-furring metal plaster base.*

te

sp

Figure 6.3. Coded Table.

PROCEDURE 7

PREPARATION OF A PROJECT SPECIFICATION BY TEXT EDITING

1. PROJECT SPECIFICATION SECTION.

The specification writer has tailored guide specification CEGS-10801 and made flag choices (Figures 7.1, 7.2 and 7.3) to reflect project unique requirements and is ready for a final copy of the project specification to be prepared.

2. OPERATOR PROCEDURES.

Upon receipt of the final draft of the project specification the operator must perform the following tasks:

a. Identify project. An assigned prefix of four unique characters to identify all sections of specification for this project was assigned, i.e. "mwhs" for a warehouse building at the Mississippi Army Ammunition Plant.

b. Access the System. Prior to entering the EDITSPEC system, the operator must follow the procedure given to enter and leave the computer.

c. Editing. The following system, internal and editing commands were applied to produce the specification section.

.logon 990001021abc;mwhs01. (User id and acct number)

The following commands are to be issued only once per document.

.noti (cegs10801.00). (To receive message of changes to document)

.size 180. Number of lines per document (number lines per page X number pages) or the space command may be used.

.dscr (mwhs01);180. (Create the data set)

.new (99mw10801.00);(mwhs01);;1. (Create new document stored on data set 99mw01 without an immediate edit)

.acce (mwhs10801.00)(w);; (Grant all users whose ID match the mask
(990001021???) write access)

.edit (99mw10801.00). (Edit the document and enter activity
project description, i.e., creation of
spec or reviewing schedules in
specification)

.cf (cegs10801.00);2,5,6,7,9,10, 11, 12, 14, 15, 16.	(Copy flags from cegs applicable to project spec)
.fc 2;2.	
.fc 5;2.	
.fc 6;1.	
.fc 7;2.	
.fc 9;1.	
.fc 10;1.	(selected flag choice)
.fc 11;3.	
.fc 12;2.	
.fc 14;1.	
.fc 15;2.	
.sc 16;1;(2.4).	
.fc 16;1.	
.co (cegs10801.00);10-20;;;nm;proj.	(internal codes for project spec)
.co (cegs10801.00);1220;;;nm;proj.	(section number)
.co (cegs10801.00);1225-1300;;;nm.	(section title)
.co (cegs10801.00);1400-1700;;;1.	(paragraph 1)
400 *tc 1; *p1* APPLICABLE PUBLICATIONS* : The Federal Specifications	
(Fed. Spec.) listed below /	
500 forms a part of this specification to the extent referenced. The /	
600 publications are referred to in the text by the basic designation only. *s11* /	
.ch 500;/forms//form/.	
.en ;/*tb 250*/.	(table format id on next available line when a line number is not specified)
.ct (cegs10801.00);2100;;;nm.	
.ct (cegs10801.00);2200;;;nm.	(applicable publications)
.en ;/*te*/.	(end of table)
.co (cegs10801.00);2600-3200;;;nm.	
.co (cegs10801.00);3300-3900;;;nm.	(text)
.co (cegs10801.00);4000-4400;;;nm.	
.en ;/. /.	(enter punctuation mark)
.stor 1.	(storing to prevent work loss if power failure, etc.)
.en ;/*b*/.	(text to be blocked)
.co (cegs10801.00);4600-4710;;;nm.	(text copied)
.ct (cegs10801.00);4900;;;nm.	(table copied)
.en ;/*be*/.	(end of block)
.co (cegs10801.00);5600-5700;;;nm.	
.co (cegs10801.00);5800-6000;;;nm.	(text)
.co (cegs10801.00);6700-7300;;;nm.	
.co (cegs10801.00);7400;;;nm.	(project unique text)
.in.	
Fed. Spec. WW-P-541, Type III, Class 2. Cabinet shall be 16 inches wide, 20 inches high, and 6 inches deep. Mirror shall be plate or float glass. Design of swing door cabinet assembly	
(cr)	(end input mode)

```

.co (cegs10801.00);8500-9100;;;nm.
.co (cegs10801.00);9700-10100;;;nm.      (text)
.co (cegs10801.00);11900-12600;;;nm.
.co (cegs10801.00);13700-13900;;;nm.      (project unique text)

.in.



*p2* Wood Shelves (WS): Shelves shall be 10 inches wide by 5 feet long and shall be made of 2-inch thick clear white oak. Fasteners, including mounting bolts shall be concealed. Edges on front and ends of shelves shall be rounded to 1/2-inch radius. Shelves and support brackets shall be thoroughly sanded to remove tool marks and finished with three coats of polyurethane varnish.


(cr)      (end input mode)
.co (cegs10801.00);15400-15800;;;nm.
.co (cegs10801.00);16900-17000;;;nm.
.co (cegs10801.00);17500-18500;;;nm.      (text)
.co (cegs10801.00);18600;;;nm.
.stor l.
.in.      (input of project unique text
           table with proper coding)

*b*
*tb 108014*
*cj ACCESSORIES REQUIRED* *sll*
*th* *u* Room *ue* $ *u* CH *ue* $ *u* GB *ue* $ *u* MC *ue* $ *u* MG *ue*
$ *u* PTD *ue* $ *u* SNTD *ue* $ *u* SD *ue* $ *u* WS *ue* $ *u* SMLD *ue*
$ *u* TTD *ue* $ *u* WR *ue*
*r* 100 $ 3 $ 1 $ 1 $ 2 $ 3 $ 3 $ 3 $ 2
*r* 127 $ 3 $ 1 $ 1 $ 2 $ 1 $ 3 $ 3 $ 3 $ 2
*r* 139 $ 1 $ 1 $ 1 $ 1 $ 1 $ 1 $ 1 $ 1 $ 1
*r* 145 $ 1 $ 1 $ 1 $ 1 $ 1 $ 1 $ 1 $ 1 $ 1
*te*
*be*

      (At this point, the user may elect to list the text
      for proofing)

(cr)      (end input mode)
.stor.      (exit edit mode, enter system mode)

      (table format for table entered)
.tabl 108014;b3c4,b3c2,b3c2,b3c2,b3c2,b3c3,b3c4,b3c2,b3c2,b3c4,b3c3,b3c2;11.
.edit (mwsl10801.00).      (edit document then enter the activity)
.bp 26;10.
.bn 26;3;10,A.      (begin numbering with 10A)

      NOTE: Resolve the external references with reference removal
      and flag removal switches set to 1 (.rr_;1;1.) before the
      final printing of the document.

.pr 26;1,x;void,proj;;;1.      (print without index, page and
                                paragraph initialization, at a
                                users high speed printer)

.logof.

```

The system will respond with the following questions.
(User types answers as noted).

***END-OF-INPUT ENCOUNTERED.
*****JOB HAS BEEN TERMINATED*****

DO YOU WANT TO LIST ANY OF THE DOCUMENT DATASETS (YES OR NO)

Step 1. Type: no
Return

DO YOU WANT TO LIST EITHER OF THE PRINT DATASETS
ENTER NO TO PROCEED WITH LOGOF

Step 2. Type: no
Return

DO YOU WISH TO CONTINUE WITH EDITSPEC? (YES OR NO)

Step 3. Type: no
Return

DO YOU WISH TO TERMINATE THIS SESSION? (YES OR NO)
IF 'NO' WILL RETURN TO EDITSPEC

Step 4. Type: no (Sends you to the out data sets)
Return

DO YOU WANT A LIST OF THE .OUT. DATA SETS?
ENTER 'NO' TO PROCEED DIRECTLY TO EDITSPEC

Step 5. Type: yes
Return

System will respond with:

THE FOLLOWING DATA SETS ARE AVAILABLE TO BE LISTED OR DELETED
NONVSAM ----- XXXX.OUT.JL23.T105722
IN-CAT ---- SYSCTLG.VSHAR01

DO YOU WISH TO REVIEW OR DELETE ANY OF THESE DATA SETS?
ENTER 'NO' TO PROCEED DIRECTLY WITH EDITSPEC

Step 6. Type: yes
Return

DO YOU WANT TO LIST OR DELETE THE DATA SET?
ENTER L FOR LIST OR DEL FOR DELETE

Step 7. Type: l
Return

WHICH DATA SET DO YOU WANT TO LIST/DELETE?

Step 8. Type: xxxx.out.jl23.t105722
Return

Step 9. Before doing a carriage return, position your paper for correct top margin.

The document will be printed as requested (Figure 7.4). Upon completion of printing the system will respond with the following.

LISTING OF DATA SET ENDS AT: 11:33:47 (current time)
THE FOLLOWING DATA SETS ARE AVAILABLE TO BE LISTED OR DELETED
NONVSAM ----- XXXX.OUT.JL23.T105722
IN-CAT----- SYSCTLG.VSHAR01

DO YOU WISH TO REVIEW OR DELETE ANY OF THESE DATA SETS?
ENTER 'NO' TO PROCEED DIRECTLY WITH EDITSPEC

Step 10. Type: Yes
Return

DO YOU WANT TO LIST OR DELETE THE DATA SET?
ENTER L FOR LIST OR DEL FOR DELETE

Step 11. Type: del
Return

NOTE: (To keep storage to a minimum, always delete after listing)

WHICH DATA SET DO YOU WANT TO LIST/DELETE?

Step 12. Type: xxxx.out.jl23.t105722
Return

DO YOU WANT TO GET INTO THE EDITSPEC SYSTEM?
ENTER 'NO' TO PROCEED TO THE LISTING OF THE DOCUMENT DATASETS
ENTER 'YES' TO PROCEED DIRECTLY INTO EDITSPEC

Step 13. Type: no
Return

DO YOU WANT TO LIST EITHER OF THE PRINT DATASETS
ENTER NO TO PROCEED WITH LOGOFF

Step 14. Type: no
Return

DO YOU WISH TO CONTINUE WITH EDITSPEC? (YES OR NO)

Step 15. Type: no
Return

DO YOU WISH TO TERMINATE THIS SESSION? (YES OR NO)
IF 'NO' WILL RETURN TO EDITSPEC

Step 16. Type: yes
Return

DO YOU WISH TO LOGON WITH ANOTHER ID?

Step 17. Type: no
Return

TIME-'CURRENT TIME' CPU-'CPU TIME' SERVICE-'SERVICE NUMBER' SESSION-'TIME'
DATE-'Current Date'

```
*****
***** THE CONNECT TIME IS LISTED AS SESSION ON *****
***** THE ABOVE LINE. THE CONNECT TIME CHARGE *****
***** IS 13 CENTS/MINUTE *****
*****
TOTAL SYSTEM RESOURCES USED FOR THIS SESSION
EXECUTION WAS DURING NORMAL WORKING DAY
THE CPU TIME IN HUNDREDTHS OF SECONDS: 'CPU TIME'
THE EXCP COUNT (IO): 'EXCP COUNT'
THE COST ASSOCIATED WITH CPU AND EXCP UTILIZATION IS: 'COST'
'USER ID' LOGGED OFF TSO AT 'CURRENT TIME' ON 'CURRENT DATE'
LAST STEP COMPLETION CODE WAS USER 000
```

Session Complete

3. SUMMARY.

The number and type of commands an operator would use in preparing a project specification section would vary according to the mark-up of the draft specification. Other features, not shown in the example, may be utilized (Reference User Manual).

UNLESS OTHERWISE INSTRUCTED,
 SELECT ONE CHOICE FOR EACH OF THE FOLLOWING FLAGS
 (CHOICES IN LISTS ARE INDICATED BY A NEGATIVE CHOICE NUMBER)
 THE LAST TWO CHOICES IN A MULTIPLE CHOICE FLAG ARE
 THE PUNCTUATION MARK AND THE CONNECTING WORD.)

~~SINGLE CHOICE FLAG ID- 1
 LOCATED ON OR NEAR LINE NUMBERS 4510
 *** FCN 1 ~~surface /~~
 *** DES ~~location of exposed fasteners~~~~

SINGLE CHOICE FLAG ID- 2
 LOCATED ON OR NEAR LINE NUMBERS 5210
 *** FCN 1 Carbon steel and copper alloy/
 *** FCN 2 Carbon steel, copper alloy, and brass/
 *** DES metal finishes

~~SINGLE CHOICE FLAG ID- 3
 LOCATED ON OR NEAR LINE NUMBERS 6400
 *** FCN 1 surface /
 *** FCN 2 recessed /
 *** DES facial tissue dispenser~~

~~SINGLE CHOICE FLAG ID- 4
 LOCATED ON OR NEAR LINE NUMBERS 7900
 *** FCN 1 surface mounted vanity /
 *** FCN 2 recessed cabinet /
 *** DES sliding door medicine cabinet~~

SINGLE CHOICE FLAG ID- 5
 LOCATED ON OR NEAR LINE NUMBERS 8600
 *** FCN 1 surface /
 *** FCN 2 recess /
 *** DES swing door medicine cabinet

SINGLE CHOICE FLAG ID- 6
 LOCATED ON OR NEAR LINE NUMBERS 9100
 *** FCN 1 C/
 *** FCN 2 D/
 *** FCN 3 E/
 *** DES glass mirror frame style, DD-M-411

SINGLE CHOICE FLAG ID- 7
 LOCATED ON OR NEAR LINE NUMBERS 10100
 *** FCN 1 22-gage carbon steel/
 *** FCN 2 0.0269-inch, stainless steel/
 *** DES surface mounted folded paper towel dispenser

~~SINGLE CHOICE FLAG ID- 8
 LOCATED ON OR NEAR LINE NUMBERS 10800
 *** FCN 1 Q: Style Q /
 *** FCN 2 R: Style R /
 *** DES recessed paper towel dispenser style, DD-M-411~~

Figure 7.1. Flag Table

SINGLE CHOICE FLAG ID- 9
 LOCATED ON OR NEAR LINE NUMBERS 11300
 *** FCN ① single /
 *** FCN 2 dual /
 *** DES robe hook pins

SINGLE CHOICE FLAG ID- 10
 LOCATED ON OR NEAR LINE NUMBERS 12100
 *** FCN ① surface/
 *** FCN 2 recessed/
 *** DES sanitary napkin and tampon dispenser

SINGLE CHOICE FLAG ID- 11
 LOCATED ON OR NEAR LINE NUMBERS 12500
 *** FCN 1 22 napkins/
 *** FCN 2 30 napkins/
 *** FCN ③ 15 napkins or 20 tampons/
 *** FCN 4 15 napkins and 22 tampons/
 *** FCN 5 15 napkins and 50 tampons/
 *** FCN 6 20 napkins and 20 tampons/
 *** FCN 7 30 napkins and 27 tampons/
 *** DES sanitary napkin and tampon dispenser capacity

SINGLE CHOICE FLAG ID- 12
 LOCATED ON OR NEAR LINE NUMBERS 12600
 *** FCN 1 complimentary /
 *** FCN ② 10-cent coin /
 *** DES sanitary napkin and tampon dispenser operation

SINGLE CHOICE FLAG ID- 13
 LOCATED ON OR NEAR LINE NUMBERS 13300
 *** FCN 1 straight /
 *** FCN 2 bent as required /
 *** DES shower curtain rail

SINGLE CHOICE FLAG ID- 14
 LOCATED ON OR NEAR LINE NUMBERS 17000
 *** FCN ① A, stainless steel/
 *** FCN 2 K, copper alloy/
 *** DES toilet tissue dispenser style, WH-P-341

SINGLE CHOICE FLAG ID- 15
 LOCATED ON OR NEAR LINE NUMBERS 17700
 *** FCN 1 recessed /
 *** FCN ② surface /
 *** DES waste receptacle mounting

SINGLE CHOICE FLAG ID- 16
 LOCATED ON OR NEAR LINE NUMBERS 18000
 *** FCN 1 waste receptacle capacity
 *** DES 2.4

END OF FLAG TABLE

Figure 7.1. Flag Table (Cont)

7-10

Figure 7.2. Working Copy of Guide Specification Continued.

7-11

Figure 7.2. Working Copy of Guide Specification Continued.

5600	63	etc 1; 1/2" ACCESSORY ITEMS 4 shall conform to the respective /
5700	57	specifications and other requirements specified below. /
5710	21	eco 19;22700-23600* /
not2		
-22700		E. Paragraphs 3 and 6: In order to minimize
-22800		the confusion of selecting the numerous options
-22900		contained in Fed. Spec. WW-P-541/BA, only those
-23000		accessories and finishes mutually suitable for military
-23100		construction were included in this guide specification.
-23200		When other accessories and finishes are required to
-23300		meet the needs of the project, the specifier should
-23400		review the options included in Fed. Spec. WW-P-541/BA
-23500		for inclusion. When preparing the contract documents,
-23600		the specifier should review the detail requirements of
		Fed. Spec. WW-P-541/BA to assure that correct
		selections have been included. In areas of hard usage,
		minimum use should be made of recessed accessories.
not2		
5720	19	etc 1100;1124300* /
-24400		
-24500		
-24600		
-24700		
-24800		
-24900		
-25000		
-25100		
-25200		
-25300		
-25400		
-25500		
-25600		
-25700		
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-31100		
-31200		
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-31400		
-31500		
-31600		
-31700		
-31800		
-31900		
-32000		
-32100		
-32200		
-32300		
-32400		
-32500		
-32600		
-32700		
-32800		
-32900		
-33000		

Figure 7.2. Working Copy of Guide Specification (continued).

16	Private bathrooms where a medicine cabinet is not provided, in general—use toilets, and hand washing areas. Mirror is 18 inches by 30 inches. Mirrors larger than 18 inches by 30 inches will be specified in SECTION: GLASS AND GLAZING. Limit to not more than one per lavatory. Adjustable tilt table mirror will be provided in areas to be used by wheelchair handicapped.
141	Areas used by neuropsychiatric patients or prisoners and where vandalism would be a problem in areas used by the public. Limit to one per lavatory.
PTD	Public toilets and toilets in nondomiciliary type buildings in accordance with the requirements of the using service. Limit to not more than one for two lavatories, except one per toilet in single lavatory installation.
141	Bathrooms with bathtubs or shower. Limit to two per shower or bathtub. These hooks will be mounted on an oak strip when used in rough usage areas.
SHD	Public toilets and toilets in nondomiciliary type buildings used by women. Disposal will be mounted in the toilet partition and serving two toilet compartments. Such toilet compartment shall be accessible to a disposal unit.
SNTD	Public toilets and toilets in nondomiciliary type buildings used by women. Use of recessed units will be considered for installations which are required to present an excellent appearance. Limit to one per toilet.
SC & SCR	Installations with combination bathtub and shower or individual shower, except where metal-cabinet shower units which include rails and curtains are used. One per shower-tub installation and one per individual shower installation.

Figure 7.2. Working Copy of Guide Specification Continued.

5800	72	*p2 ^a Coat Hook (CH): Coat hook shall be brass with two hooks, minimum /
5900	75	projection of upper hook 3-1/2 inches and lower hook 1-3/4 inches with at /
6000	50	least two holes thru wall flange for fastening. /
6100	68	*p2^a Coat Hook (CH): Coat hook shall be brass with two hooks, minimum /
6200	87	conform to Fed. Spec. W-1-541, Type 1, Class 4, #13; surface] recessed mounting. /
6300	24	stainless steel face. /
6510	2	Recessed dispenser shall have a capacity of 300 tissues. /
6600	59	Recessed dispenser shall have a capacity of 300 tissues. /
6610	3	Recessed dispenser shall have a capacity of 300 tissues. /
6700	69	*p2 ^a Grab bar (GB): Grab bar shall conform to Fed. Spec. W-1-541, /
6800	69	Type IV, Class 2. Stainless steel tube shall be 1-1/4 inches O.D. /
6900	74	Grab bar shall be form and length as indicated. Flange shall have screw /
7000	75	mounting holes concealed on the lip of the flange. Grab bar shall have a /
7100	78	smooth surface. Installed bars shall be capable of withstanding a 500-pound /
7200	70	vertical load without becoming loose from the fastenings and without /
7300	33	obvious permanent deformation. /
		Class 2. Cabinet shall be 16-inches wide, 20-inches
		high, and 6-inches deep.
7400	64	*p2 ^a Medicine Cabinet (MC): Medicine cabinet shall conform to /
7500	68	Fed. Spec. W-1-541, Type III, #13; surface and depth of cabinet. /
7600	69	shall be in accordance with the conditions. Mirror shall be plate or /
7700	15	float glass. /
7800	74	*p2^a Medicine Cabinet (MC): Medicine cabinet shall conform to /
7900	34	be #14; surface mounted vanity recessed cabinet. /
8000	29	with design and lighting arrangement as indicated. Vanity cabinet shall have /
8100	56	the mirror shall be plate glass. /
8400	74	*p2^a Mirror (M): Mirror shall conform to Fed. Spec. W-1-541, Type I, Class 2, Style #16; surface. /
8500	78	including the lighting arrangement shall be as indicated. Assembly shall be /
8600	26	#13; surface] recessed. /
8800	77	mounted. Cabinet shall be located centrally behind the door. Mirror shall /
8900	31	be provided on cabinet door. /
9000	57	*p2 ^a Mirror, Class (MC): Glass mirror shall conform to /
9100	54	Fed. Spec. D-1-411, Class 2, Style #16; surface. /
9200	68	*p2^a Mirror (M): Mirror shall be stainless steel or /
9300	76	chrome plated steel; mirror vanity, 6-1/2 inch minimum thickness. /

Figure 7.2. Working Copy of Guide Specification Continued.

9500	74	Standard back-tilt back and recess fitted with fiber-board backing mounted with
9600	72	which concealed the support fastenings. Size shall be in accordance with
	16	the manufacturer.
9700	64	*p2a Paper Towel Dispenser (PTD): Paper towel dispenser shall /
9800	51	conform to Fed. Spec. WW-P-541, Type 1, Class 3. /
9900	27	*p3a Mounting S, Surface: /
10000	68	*p4a Style M (Folded Towels): Style M dispenser shall not be less /
10100	69	than #17;322-gage carbon steel [0.0269-inch, stainless steel] . /
10200	65	*p5a Style O (Roll Towels): Style O dispenser shall be kind B. /
10300	50	Spindle shall be permanently hinged to one arm. /
10400	28	*p3a Mounting S, Recessed: /
10500	67	*p4a Style P: Style P dispenser shall have towel compartments and /
10600	77	utility shelf behind mirror door with one liquid soap dispenser and shelf. /
10700	71	Capacity of dispensers shall be 400 C-fold or 700 multi-fold towels. /
10800	52	*p4a Style #118;90 [7]: Style [Q] [T] is allowable /
10900	36	Container shall be stainless steel. /
11000	71	*p2a Robe Hook (RH): Robe hook shall be copper or brass coating with /
11300	90	#19;3single) (double ply integral with or permanently fastened to wall flange. Minimum /
11400	34	projection shall be 1-3/4 inch. /
11500	59	*p2a Sanitary Napkin and Tissue Dispenser (SND): Sanitary /
11600	66	napkin and tissue dispenser shall conform to Fed. Spec. WW-P-541, /
11700	67	Type 1, Mounting P, stainless steel. Reusable liner of the type /
11800	52	Standard with the manufacturer shall be provided.
11900	61	*p2a Sanitary Napkin and Tissue Dispenser (SND): Sanitary /
12000	67	napkin and tissue dispenser shall conform to Fed. Spec. WW-P-541, /
12100	58	Type 1, Class 3, mounting #110;9surface) . /
12400	71	Dispenser including door shall be stainless steel and have a capacity /
12500	64	of #111;9..... napkins (and for) tampons. Dispensing /
12600	74	mechanism shall be for #112;9complementary [10-cent coin] operation. /

Figure 7.2. Working Copy of Guide Specification Continued.

13000	60	Sp. Shower Curtain Rail (SCR): Shower curtain rail shall be /
13100	56	Ed. Spec. L-C-180, Style 1, size to suit conditions. /
13200	63	Sp. Shower Curtain Rail (SCR): Shower curtain rail shall be /
13300	68	Stainless steel 1-inch O.D. by 0.049-inch minimum wall; fasteners shall be /
13600	35	to meet installation conditions. /
13650	26	Ed. Spec. L-C-180, Style 1, size to suit conditions. /
not 1		
13700	64	Sp. Soap Dispenser (SD): Soap dispenser shall be liquid type /
13800	72	consisting of a vertical stainless steel tank with holding capacity of /
13900	19	40 fluid ounces. /
13910	21	Ed. Spec. L-C-180, Style 1, size to suit conditions. /
not 2		
-30700		G. Paragraph 6.13: Powdered soap dispenser
-30800		should be included for a shop or industrial area.
14000	54	<i>See Insert</i>
14100	58	<i>See Insert</i>
14110	2	<i>See Insert</i>
14200	47	<i>See Insert</i>
14210	3	<i>See Insert</i>
14300	55	<i>See Insert</i>
14400	63	<i>See Insert</i>
14500	68	<i>See Insert</i>
14600	66	<i>See Insert</i>
14700	19	<i>See Insert</i>
14800	63	<i>See Insert</i>
14900	82	<i>See Insert</i>
15000	75	<i>See Insert</i>
15100	68	<i>See Insert</i>
15200	78	<i>See Insert</i>
15300	51	<i>See Insert</i>
15400	69	<i>See Insert</i>
15500	67	<i>See Insert</i>
15600	75	<i>See Insert</i>
15700	68	<i>See Insert</i>
15800	2	<i>See Insert</i>

Figure 7.2. Working Copy of Guide Specification Continued.

15900	67	1000 Soap and Grab Bar Combination, recess-mounted (SGB), recess-
16000	77	mounted soap and grab bar combination shall conform to Fed. Spec. W-P-541,
16100	69	Type VI, Class 2, stainless steel, modified to provide a grab bar. /
16110	2	Plastic insert dish shall be furnished. /
16200	42	Plastic insert dish shall be furnished. /
16210	3	Plastic insert dish shall be furnished. /
16300	71	1020 Towel Bar (TB): Towel bar shall conform to Fed. Spec. W-P-541, /
16400	66	Type IV, Class 1, stainless steel; length in accordance with the /
16500	53	CHENDULE. Bar shall be minimum 3/4-inch diameter. /
16600	71	1020 Towel Pin (TP): Towel pin shall have concealed wall fastenings, /
16700	73	pin integral with or permanently fastened to wall flange, approximately /
16800	77	each projection, design consistent with design of other accessory items. /
16900	68	1020 Toilet Tissue Dispenser (TTD): Toilet tissue dispenser shall /
17000	112	conform to Fed. Spec. W-P-541, Type I, Class 1, Style #114; SA, stainless steel) (K, copper /
17200	67	1020 Toothbrush and Towel Holder (TH): Toothbrush and towel /
17300	64	holder shall conform to Fed. Spec. W-P-541, Type VI, Class 2, /
17400	19	stainless steel. /
17500	64	1020 Waste Receptacle (WR): Waste receptacle shall conform to /
17600	61	Fed. Spec. W-P-541, Type II, stainless steel, designed for /
17700	29	#115 (recessed) (surfaces) /
17900	69	mounting. Reusable liner of the type standard with the receptacle /
18000	87	manufacturer shall be provided. Capacity shall be not less than 416; 9.....94 cubic /
18100	8	f. et. /
18200	67	1020 1020 INSTALLATION: Toilet accessories shall be securely /
18300	73	fastened to the supporting construction in accordance with the approved /
18400	74	submittals. Accessories shall be protected from damage from the time of /
18500	33	installation until acceptance. /
18550	26	1020 1020 (B) 1020 1020 /

not

Figure 7.2. Working Copy of Guide Specification Continued.

Figure 7.2. Working Copy of Guide Specification Continued.

**Figure 7.3. Working Copy of Guide Specification.
Print Option 2.**

3100	3200	with corrosion resistant / surface. /	
3250	3250	all*	
	3250	*rj (C)*	(C)
	3250	*np*	
	3250	*sl*	
	3250	/	
3300	3400	3. SAMPLES AND DESCRIPTIVE DATA: One / sample of each accessory	
3400	3500	proposed for use shall be submitted for approval. / Samples shall be	
3500	3600	accompanied by descriptive data indicating materials of / construction,	
	3600	fasteners proposed for use for each type of wall construction. /	
	3700	recommended mounting locations, and mounting instructions. Approved	
3700	3800	samples / may be incorporated into the finished work provided they are	
3900	3910	identified and / their locations noted. / /	
		C. Paragraph 3: Project drawings should	
-21400	-21500	indicate mounting heights and / location. /	
3920	3920	all*	
	3920	*rj (D)*	(D)
	3920	*np*	
	3920	*sl*	
	3920	/	
4000	4100	4. ANCHORS AND FASTENERS shall be capable of / developing a restraining	
4100	4200	force commensurate with the strength of the / accessory to be mounted and	
4200	4300	shall be well suited for use with the / supporting construction. Where	
4300	4400	exposed fasteners are permitted, they / shall have oval heads and finish to	
4400	4410	match the accessory/ the accessory shall be capable of developing a restraining force commensurate with the strength of the accessory to be mounted and shall be well suited for use with the supporting construction. Where exposed fasteners are permitted, they shall have oval heads and finish to match the accessory/	
4410	4410	the accessory shall be capable of developing a restraining force commensurate with the strength of the accessory to be mounted and shall be well suited for use with the supporting construction. Where exposed fasteners are permitted, they shall have oval heads and finish to match the accessory/	
4410	4510	/ /	
4410	4500	D. Paragraph 4: Tamperproof fasteners will	
-21600	-21700	be specified for accessories / which have exposed	
-21700	-21700	fasteners in areas used by neuropsychiatric patients or	
-21800	-21800	/ prisoners and where theft or vandalism would be a	
-21900	-21900	problem in areas used by / the public. Locations where	
-22000	-22000	tamperproof fasteners are required will be / inserted	
-22000	-22100	in the blank space. Although this guide specification	
-22100	-22200	places / the responsibility with the Contractor for	
-22200	-22300	providing, subject to Government / approval, fasteners	
-22300	-22400	and anchors of the type, size and number required to /	
-22400	-22500	adequately secure the accessory items, specific	
-22500	-22600	requirements for critical or / unusual applications	
-22600	-22600	will be specified. When this is necessary, the /	
-22500	-22600	specifications may refer to details on the drawings, or	
-22600	-22600	the specifications may / be expanded to include the	
4520	4520	necessary requirements. /	
4520	4520	all*	
	4520	*rj (E)*	(E)

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Figure 7.3. Working Copy of Guide Specification Continued.
 Printion 2.

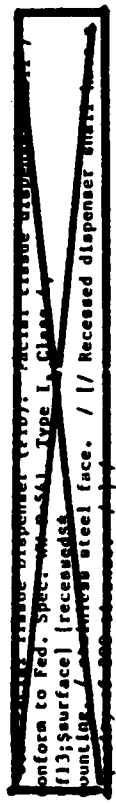
-26600	-26700	-26800	-26900	PTD	Public toilets and toilets in nondomiciliary type buildings / in accordance with the requirements of the using service. Limit to not / more than one for two lavatories, except one per toilet in single lavatory / installation. /
	-27000	-27100	-27200	WA	Bathrooms with bathtubs or shower. Limit to two per shower / or bathtub. These hooks will be mounted on an oak strip when used in rough / usage areas. /
-27300	-27400	-27500	-27600	SND	Public toilets and toilets in nondomiciliary type buildings / used by women. Disposal will be mounted in the toilet partition and / serving two toilet compartments. Such toilet compartment shall be accessible / to a disposal unit. /
-27700	-27800	-27900	-28000	SNTD	Public toilets and toilets in nondomiciliary type / buildings used by women. Use of recessed units will be considered for / installations which are required to present an excellent appearance. Limit / to one per toilet. /
-28100	-28200	-28300	-28400	SC & SCR	Installations with combination bathtub and shower or / individual shower, except where metal-cabinet shower units which include / rails and curtains are used. One per shower-tub installation and one per / individual shower installation. /
	-28500	-28600		SD	Public toilets and toilets in nondomiciliary type buildings / unless included with paper towel dispenser. Limit to one per lavatory. /
	-28700	-28800		SH	Private toilets with lavatory unless soap dispenser is / specified. Limit to one per private toilet. /
	-28900	-29000		SG	Private bathrooms where a metal shelf or a medicine cabinet / is not provided. Limit to one per bathroom. /

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Figure 7.3. Working Copy of Guide Specification Continued.
Print Option 2.

-29100	-29200	SHRD	Troop facilities and other areas subject to rough usage. / Installation will be detailed on the drawings. /
-29300	-29400	SHLD	Private bathrooms where a glass shelf or medicine / cabinet is not provided. /
-29500	-29600	SCR	Installations with bathtub or shower. Limit to one per / bathtub or shower-tub installation and one per separate showerhead. /
-29700		TB	Private bathrooms. Limit to two per bathroom. /
-29800	-29900	TP	Private bathrooms where a shower is provided in lieu of a bathtub. / Limit to one per bathroom. /
-30000		TTD	Limit to one per water closet. /
-30100		TTH	Private bathrooms. Limit to one per lavatory. /
-30200	-30300	WN	Public toilets and toilets in nondomiciliary type buildings / when requested by the using service. Use of recessed combination units / will be considered for installations which are required to present an / excellent appearance. Limit to not more than one per two paper towel / dispensers. /
-30400	-30500		
-30600			
-30700	-30800		
-30900	-31000		
-31100	-31200		
-31300	-31400		
-31500	-31600		
-31700	-31800		
-31900	-32000		
-32100	-32200		
-32300	-32400		
-32500	-32600		
-32700	-32800		
-32900	-33000		
-33100	-33200		
-33300	-33400		
-33500	-33600		
-33700	-33800		
-33900	-34000		
-34100	-34200		
-34300	-34400		
-34500	-34600		
-34700	-34800		
-34900	-35000		
-35100	-35200		
-35300	-35400		
-35500	-35600		
-35700	-35800		
-35900	-36000		
-36100	-36200		
-36300	-36400		
-36500	-36600		
-36700	-36800		
-36900	-37000		
-37100	-37200		
-37300	-37400		
-37500	-37600		
-37700	-37800		
-37900	-38000		
-38100	-38200		
-38300	-38400		
-38500	-38600		
-38700	-38800		
-38900	-39000		
-39100	-39200		
-39300	-39400		
-39500	-39600		
-39700	-39800		
-39900	-40000		
-40100	-40200		
-40300	-40400		
-40500	-40600		
-40700	-40800		
-40900	-41000		
-41100	-41200		
-41300	-41400		
-41500	-41600		
-41700	-41800		
-41900	-42000		
-42100	-42200		
-42300	-42400		
-42500	-42600		
-42700	-42800		
-42900	-43000		
-43100	-43200		
-43300	-43400		
-43500	-43600		
-43700	-43800		
-43900	-44000		
-44100	-44200		
-44300	-44400		
-44500	-44600		
-44700	-44800		
-44900	-45000		
-45100	-45200		
-45300	-45400		
-45500	-45600		
-45700	-45800		
-45900	-46000		
-46100	-46200		
-46300	-46400		
-46500	-46600		
-46700	-46800		
-46900	-47000		
-47100	-47200		
-47300	-47400		
-47500	-47600		
-47700	-47800		
-47900	-48000		
-48100	-48200		
-48300	-48400		
-48500	-48600		
-48700	-48800		
-48900	-49000		
-49100	-49200		
-49300	-49400		
-49500	-49600		
-49700	-49800		
-49900	-50000		

6.1 Coat Hook (CH): Coat hook shall be brass with two hooks, minimum / projection of upper hook 3-1/2 inches and lower hook 1-3/4 inches with at / least two holes thru wall flange for fastenings. /



6.3 Grab Bar (GB): Grab bar shall conform to Fed. Spec. WW-P-541, / Type IV, Class 2. Stainless steel tube shall be 1-1/4 inches O.D. / Grab bar shall be form and length as indicated. Flange shall have screw / mounting holes concealed on the lip of the flange. Grab bar shall have a / smooth surface. Installed bars shall be capable of withstanding a / 500-pound / vertical load without becoming loose from the fastenings and / without / obvious permanent deformation. /

Figure 7.3. Working Copy of Guide Specification Continued.
 Printion 2.

7400	7500	6.4 Medicine Cabinet (MC): Medicine cabinet shall conform to / Fed. Spec. WM-P-541, Type 111, which height and depth of cabinet / shall be in accordance with the schedule.
7500	7600	<i>Class 2. Cabinet shall be 16-inches wide, 20-inches high, and 6-inches deep.</i>
7800	7900	<i>6.7.1 Sliding Door Cabinet, Class 2: Sliding door cabinet shall be / shall be /</i>
7900	8000	<i>6.7.2 Surface mounted vanity / recessed cabinet: Vanity cabinet shall / with design and lighting arrangement as indicated. Vanity cabinet shall / have a shelf. The mirror shall have plate narrow frame /</i>
8200	8300	<i>6.7.3 Swing Door Cabinet, Class 2: Design of swing door cabinet assembly / including the lighting arrangement shall be as indicated. Assembly shall be /</i>
8400	8500	<i>6.7.4 Mirror, Class (MC): Glass mirror shall conform to / Fed. Spec. DM-N-411, Class 2, Style #f16; \$.....\$#</i>
8500	8600	<i>6.7.5 Mirror, Class (MC): Glass mirror shall conform to / Fed. Spec. DM-N-411, Class 2, Style #f16; \$.....\$#</i>
8600	8800	<i>6.7.6 Mirror, Class (MC): Glass mirror shall conform to / Fed. Spec. DM-N-411, Class 2, Style #f16; \$.....\$#</i>
8800	9000	<i>6.7.7 Paper Towel Dispenser (PTD): Paper towel dispenser shall / conform to Fed. Spec. WM-P-541, Type 1, Class 3. /</i>
9000	9100	<i>6.7.8 Mounting S, Surface: /</i>
9100	9200	<i>6.7.9.1.1 Style N (Folded Towels): Style N dispenser shall not be less / than /</i>
9200	9300	<i>6.7.9.1.2 Style N (Folded Towels): Style N dispenser shall not be less / than /</i>
9300	9400	<i>6.7.9.1.3 Style N (Folded Towels): Style N dispenser shall not be less / than /</i>
9400	9500	<i>6.7.9.1.4 Style N (Folded Towels): Style N dispenser shall not be less / than /</i>
9500	9600	<i>6.7.9.1.5 Style N (Folded Towels): Style N dispenser shall not be less / than /</i>
9700	9800	<i>6.7.9.1.6 Style N (Folded Towels): Style N dispenser shall not be less / than /</i>
9800	9900	<i>6.7.9.1.7 Style N (Folded Towels): Style N dispenser shall not be less / than /</i>
10000	10100	<i>6.7.9.1.8 Style N (Folded Towels): Style N dispenser shall not be less / than /</i>
10100	10200	<i>6.7.9.1.9 Style N (Folded Towels): Style N dispenser shall not be less / than /</i>
10200	10300	<i>6.7.9.1.10 Style N (Folded Towels): Style N dispenser shall not be less / than /</i>
10300	10400	<i>6.7.9.1.11 Style N (Folded Towels): Style N dispenser shall not be less / than /</i>
10400	10500	<i>6.7.9.1.12 Style N (Folded Towels): Style N dispenser shall not be less / than /</i>
10500	10600	<i>6.7.9.1.13 Style N (Folded Towels): Style N dispenser shall not be less / than /</i>
10600	10700	<i>6.7.9.1.14 Style N (Folded Towels): Style N dispenser shall not be less / than /</i>
10700	10800	<i>6.7.9.1.15 Style N (Folded Towels): Style N dispenser shall not be less / than /</i>
10800	10900	<i>6.7.9.1.16 Style N (Folded Towels): Style N dispenser shall not be less / than /</i>
10900	11000	<i>6.7.9.1.17 Style N (Folded Towels): Style N dispenser shall not be less / than /</i>
11000	11100	<i>6.7.9.1.18 Style N (Folded Towels): Style N dispenser shall not be less / than /</i>
11100	11200	<i>6.7.9.1.19 Style N (Folded Towels): Style N dispenser shall not be less / than /</i>
11200	11300	<i>6.7.9.1.20 Style N (Folded Towels): Style N dispenser shall not be less / than /</i>

Figure 7.3. Working Copy of Guide Specification Continued.
Print Option 2.

18700	/	*cJ GENERAL NOTES*	GENERAL NOTES
18800			
18900			
19000			
19100			
19200			
19300			
19400			
19500			
19600			
19700			
19800			
19900			
20000			
20100			
20200			
20300			
20400			
20500			
20600			
20700			
20800			
20900			
21000			
21100			
21200			
21300			

19000			1. This guide 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. /
19100			
19200			
19300			
19400			
19500			
19600			
19700			
19800			
19900			
20000			
20100			
20200			
20300			
20400			
20500			
20600			
20700			
20800			
20900			
21000			
21100			
21200			
21300			

20210	/	*cJ TECHNICAL NOTES*	TECHNICAL NOTES
20300			
20400			
20500			
20600			
20700			
20800			
20900			
21000			
21100			
21200			
21300			

20210			
20300			
20400			
20500			
20600			
20700			
20800			
20900			
21000			
21100			
21200			
21300			

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Figure 7.3. Working Copy of Guide Specification Continued.
Print Option 2.

21400	21400	C. Paragraph 3: Project drawings should indicate mounting heights and / location. /
21500	21500	
21600	21600	D. Paragraph 4: Tamperproof fasteners will be specified for accessories / which have exposed fasteners in areas used by neuropsychiatric patients or / prisoners and where theft or vandalism would be a problem in areas used by / the public. Locations where tamperproof fasteners are required will be / inserted in the blank space. Although this guide specification places / the responsibility with the Contractor for providing, subject to Government / approval, fasteners and anchors of the type, size and number required to / adequately secure the accessory items, specific requirements for critical or / unusual applications will be / specified. When this is necessary, the / specifications may refer to details on the drawings, or the specifications may / be expanded to include the necessary requirements. /
21700	21700	
21800	21800	
21900	21900	
22000	22000	
22100	22100	
22200	22200	
22300	22300	
22400	22400	
22500	22500	
22600	22600	
22700	22700	E. Paragraphs 5 and 6: In order to minimize the confusion of selecting / the numerous options contained in Fed. Spec. WM-P-541/8A, only those / accessories and finishes normally suitable for military construction were / included in this guide specification. When other accessories and finishes are / required to meet the needs of the project, the specifier should review the / options included in Fed. Spec. WM-P-541/8A for inclusion. When preparing / the contract documents, the specifier should review the detail requirements / of Fed. Spec. WM-P-541/8A to assure that correct selections have been / included. In areas of hard usage, maximum use should be made of recessed / accessories. /
22800	22800	
22900	22900	
23000	23000	
23100	23100	
23200	23200	
23300	23300	
23400	23400	
23500	23500	
23600	23600	
23700	23700	F. Paragraph 6: Only those accessory items to be used will be retained. / For materials, sizes, etc., in brackets, the applicable wording will be / retained, the inapplicable wording deleted, and the brackets removed. / Identifying abbreviation in parentheses will be retained for those items to / be used and shown on the drawings. The various accessory items will generally / be used in the following locations: *all*
23800	23800	
23900	23900	
24000	24000	
24100	24100	
24200	24200	
24300	24300	
24400	24400	
24500	24500	
24600	24600	
24700	24700	
24800	24800	
24900	24900	
25000	25000	
25100	25100	
25200	25200	
25300	25300	
25400	25400	
25500	25500	
25600	25600	
25700	25700	
25800	25800	
25900	25900	
26000	26000	
26100	26100	
26200	26200	
26300	26300	
26400	26400	
26500	26500	
26600	26600	
26700	26700	
26800	26800	
26900	26900	
27000	27000	
27100	27100	
27200	27200	
27300	27300	
27400	27400	
27500	27500	
27600	27600	
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28000	28000	
28100	28100	
28200	28200	
28300	28300	
28400	28400	
28500	28500	
28600	28600	
28700	28700	
28800	28800	
28900	28900	
29000	29000	
29100	29100	
29200	29200	
29300	29300	
29400	29400	
29500	29500	
29600	29600	
29700	29700	
29800	29800	
29900	29900	
30000	30000	
30100	30100	
30200	30200	
30300	30300	
30400	30400	
30500	30500	
30600	30600	
30700	30700	
30800	30800	
30900	30900	
31000	31000	
31100	31100	
31200	31200	
31300	31300	
31400	31400	
31500	31500	
31600	31600	
31700	31700	
31800	31800	
31900	31900	
32000	32000	
32100	32100	
32200	32200	
32300	32300	
32400	32400	
32500	32500	
32600	32600	
32700	32700	
32800	32800	
32900	32900	
33000	33000	
33100	33100	
33200	33200	
33300	33300	
33400	33400	
33500	33500	
33600	33600	
33700	33700	
33800	33800	
33900	33900	
34000	34000	
34100	34100	
34200	34200	
34300	34300	
34400	34400	
34500	34500	
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34700	34700	
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35100	35100	
35200	35200	
35300	35300	
35400	35400	
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38000	38000	
38100	38100	
38200	38200	
38300	38300	
38400	38400	
38500	38500	
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39100	39100	
39200	39200	
39300	39300	
39400	39400	
39500	39500	
39600	39600	
39700	39700	
39800	39800	
39900	39900	
40000	40000	
40100	40100	
40200	40200	
40300	40300	
40400	40400	
40500	40500	
40600	40600	
40700	40700	
40800	40800	
40900	40900	
41000	41000	
41100	41100	
41200	41200	
41300	41300	
41400	41400	
41500	41500	
41600	41600	
41700	41700	
41800	41800	
41900	41900	
42000	42000	
42100	42100	
42200	42200	
42300	42300	
42400	42400	
42500	42500	
42600	42600	
42700	42700	
42800	42800	
42900	42900	
43000	43000	
43100	43100	
43200	43200	
43300	43300	
43400	43400	
43500	43500	
43600	43600	
43700	43700	
43800	43800	
43900	43900	
44000	44000	
44100	44100	
44200	44200	
44300	44300	
44400	44400	
44500	44500	
44600	44600	
44700	44700	
44800	44800	
44900	44900	
45000	45000	
45100	45100	
45200	45200	
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45400	45400	
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45800	45800	
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46000	46000	
46100	46100	
46200	46200	
46300	46300	
46400	46400	
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46900	46900	
47000	47000	
47100	47100	
47200	47200	
47300	47300	
47400	47400	
47500	47500	
47600	47600	
47700	47700	
47800	47800	
47900	47900	
48000	48000	
48100	48100	
48200	48200	
48300	48300	
48400	48400	
48500	48500	
48600	48600	
48700	48700	
48800	48800	
48900	48900	
49000	49000	
49100	49100	
49200	49200	
49300	49300	
49400	49400	
49500	49500	
49600	49600	
49700	49700	
49800	49800	
49900	49900	
50000	50000	

24400	24500	24600	24700	CH	Hooks will be located out of the way of traffic and at an / elevation that will minimize the possibility of head injury from the hooks. / These hooks will be mounted on an oak strip when used in rough usage areas. /
				FTD	Private bathrooms used by women. Limit to one per / bathroom. /
25000	25100	25200	25300	GB	Bathrooms that will be used by people in a weakened condition, / such as in hospitals. Vertical grab bars should be considered in private / bathrooms where a soap and grab bar combination (SGR or SCS) accessory / is not provided. Forms and lengths will be shown on the drawings. /
				HC	Private bathrooms where storage of personal items in the / bathroom is also desirable. Limit to one per bathroom. Select Class 1 or / Class 2. When a vanity cabinet is specified, a glass mirror is required. /
25700	25800	25900	26000	HL	Private bathrooms where a medicine cabinet is not provided, / in general-use toilets, and hand washing areas. Mirror is 18 inches by 30 / inches. Mirrors larger than 18 inches by 30 inches will be specified in / SECTION: GLASS AND GLAZING. Limit to not more than / one per lavatory. Adjustable tilt table mirror will be provided in areas to / be used by wheelchair handicapped. /
				HM	Areas used by neuropsychiatric patients or prisoners and / where vandalism would be a problem in areas used by the public. Limit to / one per lavatory. /
26600	26700	26800	26900	PTD	Public toilets and toilets in nondomiciliary type buildings / in accordance with the requirements of the using service. Limit to not / more than one for two lavatories, except one per toilet in single lavatory / installation. /

1-11

Figure 7.3. Working Copy of Guide Specification Continued.
Print Option 2.

27000	27100	27200	MH	Bathrooms with bathtubs or shower. Limit to two per shower / or bathtub. These hooks will be mounted on an oak strip when used in rough / usage areas. /	
27300	27400	27500	27600	SND	Public toilets and toilets in nondomiciliary type buildings / used by women. Disposal will be mounted in the toilet partition and / serving two toilet compartments. Such toilet compartment shall be accessible / to a disposal unit. /
27700	27800	27900	28000	SNTD	Public toilets and toilets in nondomiciliary type / buildings used by women. Use of recessed units will be considered for / installations which are required to present an excellent appearance. Limit / to one per toilet. /
28100	28200	28300	28400	SC & SCR	Installations with combination bathtub and shower or / individual shower, except where metal-cabinet shower units which include / rails and curtains are used. One per shower-tub installation and one per / individual shower installation. /
28500	28600		SD	Public toilets and toilets in nondomiciliary type buildings / unless included with paper towel dispenser. Limit to one per lavatory. /	
28700	28800		SH	Private toilets with lavatory unless soap dispenser is / specified. Limit to one per private toilet. /	
28900	29000		SC	Private bathrooms where a metal shelf or a medicine cabinet / is not provided. Limit to one per bathroom. /	
29100	29200		SHMD	Troop facilities and other areas subject to rough usage. / Installation will be detailed on the drawings. /	
29300	29400		SHLD	Private bathrooms where a glass shelf or medicine / cabinet is not provided. /	

I - 14

I -14

Figure 7.3. Working Copy of Guide Specification Continued.
Project Option

29500	29600	SCK	Installations with bathtub or shower. Limit to one per / bathtub or shower-tub installation and one per separate showerhead. /
	29700	TR	Private bathrooms. Limit to two per bathroom. /
29800	29900	TR	Private bathrooms where a shower is provided in lieu of a bathtub. / Limit to one per bathroom. /
	30000	TID	Limit to one per water closet. /
	30100	TRH	Private bathrooms. Limit to one per lavatory. /
30200	30300	WN	Public toilets and toilets in nondomiciliary type buildings / when requested by the using service. Use of recessed combination units / will be considered for installations which are required to present an / excellent appearance. Limit to not more than one per two paper towel / dispensers. /
	30400		
30500	30600		
	30700		
	30800		
	30900		
	31000		
	31000		
	31100		
	31200		

C. Paragraph 6.13: Powdered soap dispenser should be included for a / shop or industrial area. /
 H. Paragraph 8: A schedule of the accessories required will be / added. The following is a suitable form for the SCHEDULE.
 a111a
 /
 a11a

1-15

Figure 7.3. Working Copy of Guide Specification Continued.
Print Option 2.

31100	/	Accessories Required						
31200	*tb 108013*							
31300								
31400								
31700								
		Room or Space	HC	PTD	SHLD	SD	SH	TTD
								/
31800		101	1	1	1			1 /
		120		2		2		4 /
32000		203	2	1	1-6"x24" 1-8"x30"		1	
32100							/	/
32200	*be*							
32200	/							
32300	*c j END*							
32300								
								END* /

I -16

Figure 7.3. Working Copy of Guide Specification Continued.
Print Option 2.

SECTION 10A

TOILET ACCESSORIES

1. **APPLICABLE PUBLICATIONS:** The Federal Specifications (Fed. Spec.) listed below form a part of this specification to the extent referenced. The publications are referred to in the text by the basic designation only.

DD-M-00411b
& Am-1

Mirrors, Glass

VW-P-541/8A
& Am-1

Plumbing Fixtures (Accessories, Land
Use) (Detail Specification)

2. **GENERAL:** Toilet accessories as specified herein shall be provided in accordance with the SCHEDULE hereinafter. Porcelain type, tile-wall accessories are specified in SECTION: CERAMIC TILE. Each accessory item shall be complete with the necessary mounting plates, anchors, and fasteners. Concealed mounting plates shall be of sturdy construction with corrosion resistant surface.

3. **SAMPLES AND DESCRIPTIVE DATA:** One sample of each accessory proposed for use shall be submitted for approval. Samples shall be accompanied by descriptive data indicating materials of construction, fasteners proposed for use for each type of wall construction, recommended mounting locations, and mounting instructions. Approved samples may be incorporated into the finished work provided they are identified and their locations noted.

4. **ANCHORS AND FASTENERS** shall be capable of developing a restraining force commensurate with the strength of the accessory to be mounted and shall be well suited for use with the supporting construction. Where exposed fasteners are permitted, they shall have oval heads and finish to match the accessory.

5. **FINISHES:** Finishes on metals shall be provided as follows:

<u>Metal</u>	<u>Finish</u>
Stainless steel	No. 4 general-purpose polished
Aluminum	Satin anodic, clear
Carbon steel, copper alloy, and brass	Chromium plated, bright

6. **ACCESSORY ITEMS** shall conform to the respective specifications and other requirements specified below.

6.1 **Coat Hook (CH):** Coat hook shall be brass with two hooks, minimum projection of upper hook 3-1/2 inches and lower hook 1-3/4 inches with at least two holes thru wall flange for fastening.

10A-1

Figure 7.4. Project Specification.

6.2 Grab Bar (GB): Grab bar shall conform to Fed. Spec. WW-P-541, Type IV, Class 2. Stainless steel tube shall be 1-1/4 inches O.D. Grab bar shall be form and length as indicated. Flange shall have screw mounting holes concealed on the lip of the flange. Grab bar shall have a smooth surface. Installed bars shall be capable of withstanding a 500-pound vertical load without becoming loose from the fastenings and without obvious permanent deformation.

6.3 Medicine Cabinet (MC): Medicine cabinet shall conform to Fed. Spec. WW-P-541, Type III, Class 2. Cabinet shall be 16 inches wide, 20 inches high, and 6 inches deep. Mirror shall be plate or float glass. Design of swing door cabinet assembly including the lighting arrangement shall be as indicated. Assembly shall be recess mounted. Cabinet shall be located centrally behind the door. Mirror shall be provided on cabinet door.

6.4 Mirror, Glass (MG): Glass mirror shall conform to Fed. Spec. DD-M-411, Class 2, Style C.

6.5 Paper Towel Dispenser (PTD): Paper towel dispenser shall conform to Fed. Spec. WW-P-541, Type I, Class 3.

6.5.1 Mounting S, Surface:

6.5.1.1 Style N (Folded Towels): Style N dispenser shall not be less than 0.0269-inch, stainless steel.

6.6 Sanitary Napkin and Tampon Dispenser (SNTD): Sanitary napkin and tampon dispenser shall conform to Fed. Spec. WW-P-541, Type I, Class 5, mounting surface. Dispenser including door shall be stainless steel and have a capacity of 15 napkins or 20 tampons. Dispensing mechanism shall be for 10-cent coin operation.

6.7 Soap Dispenser (SD): Soap dispenser shall be liquid type consisting of a vertical stainless steel tank with holding capacity of 40 fluid ounces.

6.8 Wood Shelves (WS): Shelves shall be 10-inches wide by 5-feet long and shall be made of 2-inch thick clear white oak. Fasteners, including mounting bolts shall be concealed. Edges on front and ends of shelves shall be rounded to 1/2-inch radius. Shelves and support brackets shall be thoroughly sanded to remove tool marks and finished with three coats of polyurethane varnish.

6.9 Shelf, Metal, Light Duty (SMLD): Light duty metal shelf shall conform to Fed. Spec. WW-P-541, Type V. Shelf shall be supported between brackets or on brackets. Width and length shall be in accordance with the SCHEDULE. Shelf and separate supports shall be stainless steel.

6.10 Toilet Tissue Dispenser (TTD): Toilet tissue dispenser shall conform to Fed. Spec. WW-P-541, Type I, Class 1, Style A, stainless steel.

6.11 Waste Receptacle (WR): Waste receptacle shall conform to Fed. Spec. WW-P-541, Type II, stainless steel, designed for surface mounting.

10A-2

Figure 7.4. Project Specification. (Cont)

Reusable liner of the type standard with the receptacle manufacturer shall be provided. Capacity shall be not less than 2.4 cubic feet.

7. INSTALLATION: Toilet accessories shall be securely fastened to the supporting construction in accordance with the approved submittals. Accessories shall be protected from damage from the time of installation until acceptance.

8. SCHEDULE:

ACCESSORIES REQUIRED

<u>Room</u>	<u>CH</u>	<u>GB</u>	<u>MC</u>	<u>MC</u>	<u>PTD</u>	<u>SNTD</u>	<u>SD</u>	<u>WS</u>	<u>SMLD</u>	<u>TTD</u>	<u>WR</u>
100	3	1		1	2		3		3	3	2
127	3	1		1	2	1	3		3	3	2
139	1		1	1	1		1	1		1	1
145	1		1	1	1	1	1	1		1	1

10A-3

Figure 7.4. Project Specification. (Cont)

PROCEDURE 8

PREPARATION OF A PROJECT SPECIFICATION BY AUTOMATIC GENERATION

1. PROJECT SPECIFICATION SECTION.

The specification writer has checked the design conditions applicable to the project (Figure 8.1) and inserted project unique text in the working copy of the guide specification (Figure 8.2).

2. OPERATOR PROCEDURES.

Upon receipt of the final draft of the project specification the operator must perform the following tasks:

a. Identify project. An assigned prefix of four unique characters to identify the office and all sections of specification for this project was assigned, i.e. "99mw" for a warehouse building at the Mississippi Army Ammunition Plant.

b. Access the System. Prior to entering the EDITSPEC system, the operator must follow the procedure given to enter and leave the computer.

c. Automatic Generation. System, internal and editing commands were applied to produce the specification section (Figure 8.3).

3. COMMANDS.

(If the operator did not issue a .noti command when obtaining a copy of the guide specification the following commands must be issued).

.logon 990001021abc;99mw01. (Spec writer user id and previously assigned account number)

.noti (cegsce212.01). (To receive messages to document)

.logof.

(Operator is now ready to logon with previously assigned id and account number)

.logon 99000101aaa;99mw01. (Operator user id and account number)

(The following commands are issued only once per document)

.size 180. (Number of lines per document - number lines per page x number pages)

.dscr (99mw01);180. (Create data set)

.spec (99mwce212.01);a;1,2,3,-4,5,6,7,-8,9,10,-11,12,13,14.

(Add the selected/rejected design conditions to the spec condition table)

.gene (99mwce212.01); cegs;99mw01;1;0;1. (Generate the project section from the master)

.acce (99mwce212.01)(w);;(990001021???). (Grant all users whose ids match the mask write access)

(Remaining commands are a typical example of one editing session)

.edit (99mwce212.01). (Enter activity description,i.e., creation of project spec or reviewing schedules in specification)

.co ;-2100. (Convert pull to a *cu, copy the pull from the master and immediately print the text)

.it 1002;/talled /;/beneath and on all sides of sumps /.

(Insert project unique text)

co ;-4100. (Convert pull to a *cu, copy the pull from the master and immediately print the text)

.ch 3402;/Membrane /;/Except as otherwise specified, membrane /;;1.

(Insert project unique text)

.co ;-4500. (Convert pull to a *cu, copy the pull from the master and immediately print the text)

.it 3802;/\$* /;/Membrane for the Communications Building shall be fabric, . applied in solid moppings, of the type of bitumen with which the fabric . is saturated. /.

(Insert project unique text)

.bp 26;7. (Reset paragraph numbering format 26 to 7A)

.bn 26;3;7,A. (Reset page numbering format 26 to page 7A-1)

NOTE: Resolve the external references with reference removal and flag removal switches set to 1 (.rr_;1;1.) before the final printing of the document.

.pr 26;l,x;void,proj;;;;;1.

(Out data set is created for
printing at users high speed
printer)

.stor.

(Editing work stored, enter
system mode)

.logof.

(User logged-off Editspec System)

The system will respond with the following questions.
(User types answers as noted).

***END-OF-INPUT ENCOUNTERED.
*****JOB HAS BEEN TERMINATED*****

DO YOU WANT TO LIST ANY OF THE DOCUMENT DATASETS (YES OR NO)

Step 1. Type: no
Return

DO YOU WANT TO LIST EITHER OF THE PRINT DATASETS
ENTER NO TO PROCEED WITH LOGOF

Step 2. Type: no
Return

DO YOU WISH TO CONTINUE WITH EDITSPEC? (YES OR NO)

Step 3. Type: no
Return

DO YOU WISH TO TERMINATE THIS SESSION? (YES OR NO)
IF 'NO' WILL RETURN TO EDITSPEC

Step 4. Type: no (Loops to the out data sets)
Return

DO YOU WANT A LIST OF THE .OUT. DATA SETS?
ENTER 'NO' TO PROCEED DIRECTLY TO EDITSPEC

Step 5. Type: yes (Lists the name of each out data set, to be listed
or deleted).
Return

System will respond with:

THE FOLLOWING DATA SETS ARE AVAILABLE TO BE LISTED OR DELETED
NONVSAM ----- XXXX.OUT.JL23.T105722
IN-CAT ----- SYSCTLG.VSHAR01

DO YOU WISH TO REVIEW OR DELETE ANY OF THESE DATA SETS?
ENTER 'NO' TO PROCEED DIRECTLY TO EDITSPEC

Step 6. Type: yes
Return

DO YOU WANT TO LIST OR DELETE THE DATA SET?
ENTER L FOR LIST OR DEL FOR DELETE

Step 7. Type: l
Return

WHICH DATA SET DO YOU WANT TO LIST/DELETE?

Step 8. Type: xxxx.out.jl23.t105722
Return

Step 9. Before doing a carriage return, position your paper for correct top margin.

The document will be printed as requested (Figure 8.3). Upon completion of printing the system will respond with the following.

LISTING OF DATA SET ENDS AT: 'CURRENT TIME'
THE FOLLOWING DATA SETS ARE AVAILABLE TO BE LISTED OR DELETED
NONVSAM ----- XXXX.OUT.JL23.T105722
IN-CAT----- SYSCTLG.VSHAR01

DO YOU WISH TO REVIEW OR DELETE ANY OF THESE DATA SETS?
ENTER 'NO' TO PROCEED DIRECTLY TO EDITSPEC

Step 10. Type: Yes
Return

DO YOU WANT TO LIST OR DELETE THE DATA SET?
ENTER L FOR LIST OR DEL FOR DELETE

Step 11. Type: del
Return

NOTE: To keep storage to a minimum, always delete after listing)

WHICH DATA SET DO YOU WANT TO LIST/DELETE?

Step 12. Type: xxxx.out.jl23.t105722
Return

DO YOU WANT TO GET INTO THE EDITSPEC SYSTEM?
ENTER 'NO' TO PROCEED TO THE LISTING OF THE DOCUMENT DATASETS
ENTER 'YES' TO PROCEED DIRECTLY INTO EDITSPEC

Step 13. Type: no
Return

DO YOU WANT TO LIST ANY OF THE DOCUMENT DATASETS (YES OR NO)

Step 14. Type: no
Return

DO YOU WANT TO LIST EITHER OF THE PRINT DATASETS
ENTER NO TO PROCEED WITH LOGOFF

Step 15. Type: no
Return

DO YOU WISH TO CONTINUE WITH EDITSPEC? (YES OR NO)

Step 16. Type: no
Return

DO YOU WISH TO TERMINATE THIS SESSION? (YES OR NO)
IF 'NO' WILL RETURN TO EDITSPEC

Step 17. Type: yes
Return

DO YOU WISH TO LOGON WITH ANOTHER ID?

Step 18. Type: no
Return

The system will respond with time, CPU, service-session and
current date.

TIME-'CURRENT TIME' CPU-'CPU TIME' SERVICE-'SERVICE NUMBER' SESSION-'TIME'
DATE-'Current Date'

```
*****
*****  THE CONNECT TIME IS LISTED AS SESSION ON  *****
*****  THE ABOVE LINE. THE CONNECT TIME CHARGE  *****
*****                      IS 13 CENTS/MINUTE      *****
*****
TOTAL SYSTEM RESOURCES USED FOR THIS SESSION
EXECUTION WAS DURING NORMAL WORKING DAY
THE CPU TIME IN HUNDREDTHS OF SECONDS:  'CPU TIME'
THE EXCP COUNT (IO):  'EXCP COUNT'
THE COST ASSOCIATED WITH CPU AND EXCP UTILIZATION IS:  'COST'
'USER ID' LOGGED OFF TSO AT 'CURRENT TIME' ON 'CURRENT DATE'
LAST STEP COMPLETION CODE WAS USER  000
```

Session Complete

4. SUMMARY.

The number and type of commands an operator would use in preparing a project specification section would vary according to the mark-up of the draft specification. Other features, not shown in the example, may be utilized (Reference User Manual).

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60
70
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94
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1400
1500
1600
1700
1700

DEPARTMENT OF THE ARMY
OFFICE OF THE CHIEF OF ENGINEERS

CE-212.01
May 1973
Superseding
CE-212.01

Notice 13
January 1981

CONCEPT DESIGN

FINAL DESIGN .X..

CHECKLIST -- CE-212.01 -- BITUMINOUS WATERPROOFING

Condition
Number

Control Condition (No Action Required)

Waterproofed Surface:

Floor

Wall

Membrane Type:

Felt

Fabric

Protected with Insulation Board

Exposure Temperature of Completed Membrane:

125 Degrees F. and Less

Greater Than 125 Degrees F.

Membrane Penetrations:

Pipe

Conduit

Figure 8.1. Design Condition Checklist (Marked for Project)

1800
1900
2000
2100
2200
2300
2400
2500

Condition
Number

11 .X..

12 .X..

13 .X..

14 .X..

DESIGN CONDITIONS

Floor Drain

Membrane Securement:

Reglets

Wood Nailers

Clamping Device

THE END

Figure 8.1. Design Condition Checklist (Cont)

CS-212.01
May 1973
Superseding
CS-212.01

6010 /
DEPARTMENT OF THE ARMY /
OFFICE OF THE CHIEF OF ENGINEERS /

Notice 13
January 1981

**CORPS OF ENGINEERS GUIDE SPECIFICATION
MILITARY CONSTRUCTION**

SECTION /

BITUMINOUS WATERPROOFING

1. **APPLICABLE PUBLICATIONS:** The publications listed below form a part / of this specification to the extent referenced. The publications are referred / to in the text by the basic designation only. /

1.1 Federal Specifications (Fed. Spec.):

三

4052 919 /

MM-1-526C

Insulation Board, Thermal (Mineral Fiber)

88-C-153C

Cement, Bituminous, Plastic

1.2 American Society for Testing and Materials (ASTM) Publications:

b2 b7C b7D 250*

C 209-72

Insulating Board (Cellulosic Fiber), Structural and Decorative

1800 -2831500 -2831510	D 41-78	Asphalt Primer Used in Roofing, Dampproofing, and Waterproofing /
1900 -2831600 -2831625	D 43-73	Cresote Primer used in Roofing, Dampproofing and Waterproofing /
2000 -2833400 -2833425	D 173-80	Bitumen-Saturated Cotton Fabrics Used in Roofing and Waterproofing /
2100 -2833800 -2833805	D 226-80	Asphalt-Saturated Organic Felt Used in Roofing and Waterproofing /
2200 -2833900 -2833915	D 227-78	Coal-Tar-Saturated Organic Felt Used in Roofing and Waterproofing /
2300 -2834100 -2834125	D 449-79	Asphalt Used in Dampproofing and Waterproofing /
2400 -2834200 -2834210	D 450-78	Coal-Tar Bitumen Used in Roofing, Dampproofing, and Waterproofing /
2500 -2844100 -2844125	D 4327-78	Bitumen-Saturated Woven Burlap Fabrics used in Roofing and Waterproofing /
2600 -2845800 -2845825	D 1668-80	Class Fabrics (Woven and Treated) Roofing and Waterproofing /

(b) beneath and on all sides of sumps

2. GENERAL: Waterproofing shall be installed where indicated. /

The waterproofing shall be either asphalt or coal-tar / and shall be applied when / the ambient temperature is 40 degrees F. or above. Materials shall be stored in an / enclosed area free from contact with soil, weather, and an area maintained at not less than 50 degrees F. for at least 24 hours before use. When waterproofing / in an enclosed space, adequate ventilation shall be provided. Where / pipes, / conduit, / or other / items pass through the areas to be waterproofed/ , and where floor drains occur in such areas/ , the waterproofing shall be installed after / the flashing. /

41 (E)*

2

Figure 8.2. Print Option 3 (Cont)

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3. MATERIALS shall conform to the respective specifications and other requirements specified below. Materials shall be delivered to the site in sealed containers bearing the manufacturer's original labels. /

3.1 Asphalt: ASTM D 449, Type
af12:\$111 (111\$
(111 (111). /

1.2 Asphalt Saturated Felt: ASTM D 226, type I. /

1.3 Coal-Tar Pitch: ASTM D 450, Type B. /

1.4 Coal-Tar Saturated Felt: ASTM D 227, 36-inch width. /

7.5 Fabric: ASTM D 173, ASTM D 1327 or ASTM D 1668. /

3.6 Plastic Cement: Fed. Spec. SS-C-153, / Type I / for asphalt, / Type II / for coal-tar pitch / #159918.96

3.7 Primers / For asphalt - / ASTM D 41/ ; for coal-tar pitch - / ASTM D 43/ . /

3.8 Insulation Board: ASTM C 209, Class C, 1/2-inch thick, asphalt / saturated or coated; Fed. Spec. MM-I-526, 7/16-inch thick, covered one / side with an asphalt surfacing weighing not less than 4 ounces per / square foot and faced with asphalt-saturated kraft paper; or prefabricated / membrane board 1/8-inch thick, consisting of asphalt-saturated felt / laminated under pressure to both sides of mineral filled asphalt core. /

4. APPLICATION: /

4.1 Inspection: Surfaces to be waterproofed shall be examined carefully / for defects or conditions that will prevent a satisfactory application. /
/ Waterproofing work shall not start until corrections have been made. /
Particular attention shall be given to the following: /

4.1.1 Surfaces shall be free of holes, joints, cracks and projections / which could puncture the membrane. Holes, joints and cracks shall be / pointed flush with mortar and projections shall be cut off or ground smooth. /

4.1.2 sleeves, metal flashings, /

Figure 8.2. Print Option 3 (Cont)

Figure 8.2. Print Option 3 (Cont)

5

Figure 8.2. Print Option 3 (Cont)

- (1) For the CONCRETE & MASONRY sections, surfaces to receive / waterproofing will be moist-cured and smooth. Holes will be filled / with mortar and high spots and projections will be ground smooth. / Installation of sleeves for pipes, conduits, and similar penetrations /

/ Bentonite waterproofing may be considered as an option in areas / where sufficient experience has been

developed to assure satisfactory / performance. When using bentonite waterproofing system the / specification will require the Contractor to submit for approval / evidence that the properties of the bentonite will be equal to that / of 5 ply bituminous waterproofing. Bentonite materials will conform / to manufacturers' printed specifications and will be installed in / accordance with manufacturers' printed instructions. Bentonite will / not be specified where hydrostatic head exceeds 12 feet. Where / bentonite waterproofing is used, a report will be submitted to / HQDA (DAEM-MFG-S) Washington DC 20314. /

F Paragraph 4.3: In cases where waterproofing must be applied to / concrete or masonry walls in waterlogged soils or where some / settlement is likely to occur, it may be advisable to use the / fabric type instead of the felt type. In cases where rough masonry / walls must be waterproofed, unless such walls can be made reasonably / smooth with a paring of cement mortar, only the fabric type of / membrane waterproofing will be specified. Waterproofing will be / provided for portions of buildings below the anticipated water table. /

G. Paragraph 4.4: Flexible species on or below grade will be five ply; / floors above grade will be three ply. /

/ acj EMD-4 EMD-4 /

-185

0

-190

0

-200

-210

-220

0

-1000

0

-50013900

-50013900

-50013900

-50023500

-50023500

0

-1500

0

-2822400

-2822400

-2822400

-2831500

-2831500

-2831500

-2831500

-2831600

-2831600

-2831600

-2833400

-2833400

-2833400

-2833400

-2836100

-2836100

-2836100

-2836200

-2836200

-2836200

-2844100

-2844100

-2844100

-2845800

-2845800

-2845800

0

1002

1004

1006

1008

1010

1012

-4030

-4200

-4300

SECTION 7A

BITUMINOUS WATERPROOFING

1. APPLICABLE PUBLICATIONS: The publications listed below form a part of this specification to the extent referenced. The publications are referred to in the text by the basic designation only.

1.1 Federal Specifications (Fed. Spec.):

WH-1-526C	Insulation Board, Thermal (Mineral Fiber)
SS-C-153C	Cement, Bituminous, Plastic

1.2 American Society for Testing and Materials (ASTM) Publications:

C 208-72	Insulating Board (Cellulosic Fiber), Structural and Decorative
D 41-78	Asphalt Primer Used in Roofing, Waterproofing, and Waterproofing
D 43-73	Cresote Primer used in Roofing, Waterproofing and Waterproofing
D 173-80	Bitumen-Saturated Cotton Fabrics Used in Roofing and Waterproofing
D 449-79	Asphalt Used in Waterproofing and Waterproofing
D 450-78	Coal-Tar Bitumen Used in Roofing, Waterproofing, and Waterproofing
D 1327-78	Bitumen-Saturated Woven Burlap Fabrics used in Roofing and Waterproofing
D 1668-80	Glass Fabrics (Woven and Treated) Roofing and Waterproofing

2. GENERAL: Waterproofing shall be installed beneath and on all sides of sumps where indicated. Waterproofing may be either asphalt or coal tar and shall be applied when the ambient temperature is 40 degrees F. or above. Materials shall be stored in an enclosed area free from contact with soil, weather, and an area maintained at not less than 50 degrees F. for at least 24 hours before use. When waterproofing in an enclosed space, adequate ventilation shall be provided. Where pipes, conduit, or other items pass through the areas to be waterproofed, the waterproofing shall be installed after the flashing.

7A-1

Figure 8.3. Completed Project Specification

-4400	3. MATERIALS shall conform to the respective specifications and other requirements specified below. Materials shall be delivered to the site in sealed containers bearing the manufacturer's original labels.
-4500	
-4600	
-4700	3.1 Asphalt: ASTM D 449, Type II.
-4800	
-4900	3.2 Coal-Tar Pitch: ASTM D 450, Type B.
-5000	
-5100	3.3 Fabric: ASTM D 173, ASTM D 1327 or ASTM D 1668.
-5200	
-5300	3.4 Plastic Cement: Fed. Spec. SS-C-153, Type I for asphalt, Type II for coal-tar pitch.
-5400	
-5500	3.5 Primer: For asphalt - ASTM D 41; for coal-tar pitch - ASTM D 43.
-5600	
-5700	3.6 Insulation Board: ASTM C 208, Class C, 1/2-inch thick, asphalt saturated or coated; Fed. Spec. MM-1-526, 7/16-inch thick, covered one side with an asphalt surfacing weighing not less than 4 ounces per square foot and faced with asphalt-saturated kraft paper; or prefabricated membrane board 1/8-inch thick, consisting of asphalt-saturated felt laminated under pressure to both sides of mineral filled asphalt core.
-5800	
-5900	
-6000	
-6100	4. APPLICATION:
-6200	
-6300	4.1 Inspection: Surfaces to be waterproofed shall be examined carefully for defects or conditions that will prevent a satisfactory application. Waterproofing work shall not start until corrections have been made. Particular attention shall be given to the following:
-6400	
-6500	
-6600	4.1.1 Surfaces shall be free of holes, joints, cracks and projections which could puncture the membrane. Holes, joints and cracks shall be pointed flush with mortar and projections shall be cut off or ground smooth.
-6700	
-6800	4.1.2 Sleeves, metal flashings, and wood nailers shall be properly installed.
-6900	
-7000	4.1.3 Surfaces to be waterproofed shall be smooth and swept thoroughly to remove dust, foreign matter and loose materials immediately before waterproofing is applied. Surfaces shall be thoroughly dry at time waterproofing is applied. All surfaces shall be inspected and approved before application of waterproofing.
-7100	
-7200	
-7300	
-7400	
-7500	
-7600	
-7700	4.2 Priming: Surfaces to be waterproofed shall be coated uniformly with primer at the rate of not less than 1 gallon per 100 square feet of surface. Primer shall be permitted to dry before bitumen is applied.
-7800	
-7900	
-8000	4.3 Membrane: Except as otherwise specified, membrane shall be formed of either asphalt-saturated fabric applied in solid moppings of hot asphalt or coal-tar pitch saturated fabric applied in solid moppings of hot coal-tar pitch. Membrane for the Communications Building shall be fabric, applied in solid moppings, of the type of bitumen with which the fabric is saturated. The number of plies and extent of membrane shall be as
-8100	
-8200	
-8300	
-8400	
-8500	

7A-2

Figure 8.3. Completed Project Specification (Cont)

1802
0
-8500
-8610
-8700
-8800
-8910
-8930
-9100
-9200
-9300
-9400
-9500
-9500
0
-9600
-9700
-9900
-10000
-10100
-10200
-10300
-10300
0
-10500
-10600
-10600
0
-10700
-10800
-11000
-11100
-11200
-11200
0
-11800
-11900
-12000
-12200
-12300
-12400
-12400
-12600
-12600
-12700

indicated.

4.4 Application of Membrane: Asphalt shall not be heated above 450 degrees F., nor coal-tar above 375 degrees F. Thermometers shall be used to check the temperatures at the kettle during the heating process to insure maximum temperature is not exceeded. Bitumen shall be applied uniformly at the rate for each ply of not less than 25 pounds per 100 square feet for asphalt and 30 pounds per 100 square feet for coal-tar pitch. Fabric shall be rolled or pressed firmly into the hot bitumen to eliminate air pockets, wrinkles or similar deficiencies. Piles shall be applied shingle fashion and the fabric shall be coated thoroughly. The entire top surface shall then be given a final mopping using not less than 70 pounds of pitch, or 60 pounds of asphalt for each 100 square feet of surface.

4.5 Fabric Reinforcing: Reinforcing consisting of two plies of fabric and moppings of bitumen shall be provided over the membrane at corners, angles, over construction joints, and points where the membrane may be subject to unusual stress. Where slabs abut walls, the first ply of reinforcing shall extend at least 6 inches on the slab and 8 inches on the wall. At vertical corners, the first ply shall extend at least 5 inches to each side of the corner. The second ply shall lap the first ply by at least 2 inches.

4.6 Clamping Devices: Where indicated, membrane shall be extended into a clamping device, set in a heavy coating of plastic cement, and clamped securely.

4.7 Flashing: Flanges of flashing around penetrations and projections shall be coated with primer and permitted to dry. Flanges shall be stripped in with two fabric collars extending 4 and 6 inches, respectively, beyond the flanges and set in plastic cement. Flashing thus installed shall be lapped and mopped into the plies of the waterproofing to assure a waterproof joint.

5. PROTECTION: Waterproofing against which backfill is to be placed shall be protected by a single thickness of insulation board. The insulation board shall be pressed into the final mopping while the mopping is still hot, with edges of boards brought into moderate contact and joints staggered. Where surfaced mineral-wood board is used, the surfaced side shall face outward. Boards shall be carefully and neatly fitted around pipes and projections and shall cover the entire surface of the waterproofing. Membrane not covered with insulating fiberboards shall be given temporary protection to prevent injury to the membrane due to subsequent building operations.

7A-3

Figure 8.3. Completed Project Specification (Cont)

PROCEDURE 9

PRINTING IN THE EDITSPEC SYSTEM AND LISTING THE DATA SETS

1. GENERAL DESCRIPTION.

This procedure will show the user the three locations a print command may be directed and how to retrieve these formatted copies.

2. PROCEDURES.

System responses are typed in upper case letters. The user types the answers to the questions as specified after the word 'Type':

Step 1. Dial the phone number for the computer.
Depress Return Key (Return).

Step 2. Type: tso (to enter the time sharing operation)
Return

WELCOME TO NVIP
PLEASE SIGN ON

Step 3. Type: logon_user id/password_size(2500)_a(account number)
Return

'USER ID' LOGON IN PROGRESS AT 'CURRENT TIME' ON 'CURRENT DATE'
*** WELCOME TO N.V.I.P. 033d TIME SHARING OPTION ***
*** USE THE NEWS COMMAND FOR CURRENT INFORMATION ***
**** news was updated as of 'DATE UPDATED' ****

***** THE DATE IS: 'CURRENT DATE' *****
***** THE TIME IS: 'CURRENT TIME' *****

DO YOU WANT TO INPUT DATA FROM THE DISKETTE
ENTER YES OR NO

Step 4. Type: no
Return

DO YOU WANT A LIST OF THE .OUT. DATA SETS?
ENTER 'NO' TO PROCEED DIRECTLY TO EDITSPEC

Step 5. Type: no
Return

DO YOU WANT TO GET INTO THE EDITSPEC SYSTEM?
ENTER 'NO' TO PROCEED TO THE LISTING OF THE DOCUMENT DATASETS
ENTER 'YES' TO PROCEED DIRECTLY INTO EDITSPEC
no - to proceed to the listing of the document data sets
yes - to proceed directly into EDITSPEC

Step 6. Type: yes
Return

Step 7. Commands issued in EDITSPEC
(Print commands are annotated (a,b,c) for follow-through purposes.)

.logon_user id;account number;
password (Logon to EDITSPEC)

.edit_(cegs04200.00). (Edit the document)

a. .pr_16;1,x;area. (Document printed to user's
high speed printer-creates
an .out. data set)

b. .pr_16;1,x;area;;;1. (Document printed to user's
current device after the
user logs out of the system)

c. .pr_16;1,x;area;;;2. (Document printed to user's
current device during execution)

Print command c will alert the system to immediately print the document
while user is in EDITSPEC.

.logof. (Logoff EDITSPEC)

*** USER LOGGED-OFF EDITSPEC SYSTEM.

***END-OF-INPUT ENCOUNTERED.

DO YOU WANT TO LIST ANY OF THE DOCUMENT DATASETS(YES OR NO)

Step 8. Type no
Return

DO YOU WANT TO LIST EITHER OF THE PRINT DATASETS
ENTER NO TO PROCEED WITH LOGOFF

Step 9. Type: yes (to list the print to user's current device
from print command b)

DO YOU WANT TO LIST THE FIRST PRINT DATA SET
ENTER 'YES' OR 'NO'

Step 10. Type: no
Return

DO YOU WANT A PERMANENT COPY OF THIS PRINT DATA SET (YES OR NO)

Step 11. Type: no
Return

DO YOU WISH TO LIST THE SECOND PRINT DATASET
ENTER 'YES' OR 'NO'

Step 12. Type: yes
Return

THE SECOND PRINT DATASET(FT08F001) CONTAINS THE FOLLOWING:
POSITION PAPER THEN HIT CARRIAGE RETURN

Step 13. Go to the perforation of the paper, roll the paper up 2 blank
lines, return.

LISTING OF DATA SET STARTS AT: 'CURRENT TIME'

Document printed from print command b

LISTING OF DATA SET ENDS AT: 'CURRENT TIME'
DO YOU WANT A PERMANENT COPY OF THIS PRINT DATA SET (YES OR NO)

yes - permanent data set is required
no - permanent data set is not required

Step 14. Type: no
Return

DO YOU WISH TO CONTINUE WITH EDITSPEC? (YES OR NO)

Step 15. Type: no
Return

DO YOU WISH TO TERMINATE THIS SESSION? (YES OR NO)
IF 'NO' WILL RETURN TO EDITSPEC

yes - proceed with logoff
no - loops to the .out. data set area

Step 16. Type: no (to list the print to user's high speed printer
from print command a)
Return

DO YOU WANT A LIST OF THE .OUT. DATA SETS?
ENTER 'NO' TO PROCEED DIRECTLY TO EDITSPEC

Step 17. Type: yes
Return

THE FOLLOWING DATA SETS ARE AVAILABLE TO BE LISTED OR DELETED
NONVSAM ----- XXXX.OUT.JL23.T105722
IN-CAT ---- SYSCTLG.VSHAR01

DO YOU WISH TO REVIEW OR DELETE ANY OF THESE DATA SETS?
ENTER 'NO' TO PROCEED DIRECTLY TO EDITSPEC

Step 18. Type: yes
Return

DO YOU WANT TO LIST OR DELETE THE DATA SET?
ENTER L FOR LIST OR DEL FOR DELETE

Step 19. Type: l
Return

WHICH DATA SET DO YOU WANT TO LIST/DELETE?

Step 20. Type: XXXX.OUT.j123.t105722
Return

LISTING OF DATASET STARTS AT: 'CURRENT TIME'

Document printed from print command a.

LISTING OF DATASET ENDS AT: 'CURRENT TIME'
THE FOLLOWING DATA SETS ARE AVAILABLE TO BE LISTED OR DELETED
NONVSAM ----- XXXX.OUT.JL.23.T105722
IN-CAT ---- SYSCTLG.VSHAR01

DO YOU WISH TO REVIEW OR DELETE ANY OF THESE DATA SETS?
ENTER 'NO' TO PROCEED DIRECTLY WITH EDITSPEC

Step 21. Type: yes
Return

DO YOU WANT TO LIST OR DELETE THE DATA SET?
ENTER L FOR LIST OR DEL FOR DELETE

Step 22. Type: del
Return

WHICH DATA SET DO YOU WANT TO LIST/DELETE?

Step 23. Type: XXXX.out.j123.t105722
Return

THE FOLLOWING DATA SETS ARE AVAILABLE TO BE LISTED OR
DELETED

THERE ARE NO DATA SETS AVAILABLE TO BE LISTED OR DELETED
SESSION CONTINUING WITH EDITSPEC

DO YOU WANT TO GET INTO THE EDITSPEC SYSTEM?
ENTER 'NO' TO PROCEED TO THE LISTING OF THE DOCUMENT DATASETS
ENTER 'YES' TO PROCEED DIRECTLY INTO EDITSPEC

Step 24. Type: no
Return

DO YOU WANT TO LIST ANY OF THE DOCUMENT DATASETS (YES OR NO)

Step 25. Type: no
Return

DO YOU WANT TO LIST EITHER OF THE PRINT DATASETS
ENTER NO TO PROCEED WITH LOGOFF

Step 26. Type: no
Return

DO YOU WISH TO CONTINUE WITH EDITSPEC? (YES OR NO)

Step 27. Type: no
Return

DO YOU WISH TO TERMINATE THIS SESSION? (YES OR NO)
IF 'NO' WILL RETURN TO EDITSPEC

Step 28. Type: yes
Return

DO YOU WISH TO LOGON WITH ANOTHER ID?

Step 29. Type: no
Return

TIME-'CURRENT TIME' CPU-'CPU TIME' SERVICE-'SERVICE NUMBER' SESSION-'TIME'
DATE-'Current Date'

***** THE CONNECT TIME IS LISTED AS SESSION ON *****
***** THE ABOVE LINE. THE CONNECT TIME CHARGE *****
***** IS 13 CENTS/MINUTE *****

TOTAL SYSTEM RESOURCES USED FOR THIS SESSION
EXECUTION WAS DURING NORMAL WORKING DAY
THE CPU TIME IN HUNDREDTHS OF SECONDS: 'CPU TIME'
THE EXCP COUNT (IO): 'EXCP COUNT'
THE COST ASSOCIATED WITH CPU AND EXCP UTILIZATION IS: 'COST'
'USER ID' LOGGED OFF TSO AT 'CURRENT TIME' ON 'CURRENT DATE'
LAST STEP COMPLETION CODE WAS USER 000

PROCEDURE 10

PROCEDURE FOR PREPARATION OF NOTICES

1. GENERAL DESCRIPTION.

The Corps of Engineers retains the current guide, as well as the previous edition in the guide specification data base. The first four characters of the document name reflect the guide posted through the preceding notice, if applicable. For illustrative purposes assume that the first notice changes have been received for guide CEGS-09650. The copy to be saved will be the basic document; therefore, the four-character prefix will be n000 (n00009650.00). When the second set of changes has been proposed, the n00009650.00 document will be deleted. A new document called n00109650.00 will be created to store the basic document posted through notice 1. Subsequent notice changes would be incorporated into the basic document in the same manner.

2. PROCEDURES.

Since this is the first notice to the guide, the .list dire and .spac commands will be applied to obtain the name and current size of the guide data set. The system will respond with the current size of the primary and secondary data sets. Multiply the primary size given by 2 (assume 170) and apply the default backup size (30) as given in the .dscr command. The last 5-characters of the notice data set name should match the last 5 characters of the guide data set name. If the first character of the guide data set name is "0", the first character of the notice data set name should be "g". If the first character of the guide data set name is "1", the first character of the notice data set name should be "h". This same data set will be repeatedly used for all future notices to this guide.

a. Specification Changes. A new document will be created to contain the notice changes. The four character prefix of the document will be "work" (work09650.00). To post changes that have been made in this document to the guide, the backup option switch in the .new command must be set to 2. The .du command will then be used to create all major tables from the cegs document. The .nn command will be entered to designate the lines changed by the notice.

b. Notice Cover Page. A new document must be created to contain the unique text of the cover page. The first letter of the document name will always be a "u". The second through fourth characters will be the notice number (001). All other characters remain unchanged. The first line of this document will always contain the definition of the notice header. This header will be right justified. The operator will enter the notice cover text for this issue (Figure 10.1).

c. Production Instructions. A new document will be created to contain all production instructions to the EDITSPEC system. The document name will be the same as above except the "u" will be changed to an "i" as the first character. The operator will issue the input command and add all printing instructions. The first edit, print and store will print the notice cover page. Apply one set of .bp., .bn., and .pr. commands for each sequential specification change required.

d. Execution Instructions.

(1) Message. An update message must be issued at least 5 working days before the notice goes into effect. Before issuing the .udme command, create the current guide as the guide posted through the last notice (i.e., n000). Apply the .du command and resolve all external references.

(2) Day Before Posting. Post the notice and delete the old work copy. (This can be done in batch mode with an overnight execution request).

3. COMMANDS.

Examples of commands (with an explanation of each command) required for each document is as follows:

Step 1. Specification Changes

.list_dire-;/cegs09650.00/.	(Means of determining the data set name.)
.space_0e9660.	(Reports the total number of storage locations for the specified data set.)
.dscr_(ge9660);340.	(Data set, twice the size of the cegs data set, created to store the notice and duplicate copy.)
.new_(work09650.00);2.	(Working copy of guide created and stored on data set ge9660. The backup option is set to 2. The document is immediately edited.)
2.2	(Enter description of work activity.)
.du_(cegs09650.00).	(Major tables of the cegs document duplicated.)
.nn_1.	(Notice number set to 1.)
(change text as required)	

NOTE: Deleted text by notice will be marked with a text segment id of nxxx (xx is the Notice Number). Sufficient blank lines should be left for the deleted text by using the *sl* command.

.stor.	(Editing work saved, enter system mode.)
--------	--

Step 2. Notice Cover Pages.

.new_(u00109650.00);ge9660.	(Cover page document created and stored on data set ge9660 with an immediate edit.)
2.2	(Enter description of work activity.)

.en_;/*hsCEGS-09650 (Notice 1)3*/. (Enter the header storage containing the
guide name and notice number in parentheses.)

.in. (Enter input mode.)

(enter the first page of the notice cover)

blank line (Exit input mode.)

.en_;/*rh (**rjCEGS-09650** **s1** **rjNotice 1** **s1** **rjOctober 1981**)*./.
(On page 2, the header must be redefined to
reflect the guide name, the notice number,
and the date of the notice.)

.in.

(input the remainder of the cover page, if applicable)

blank line

.stor. (Editing work saved, enter system mode.)

Step 3. Production Instructions.

.new_(100109650.00);ge9660. (Production instruction document created
and stored on data set ge9660 with an
immediate edit.)

2.2 (Enter description of work activity.)

.in. (Enter input mode.)

.edit_(u00109650.00).__ 2.3. (Print with text and line number columns
.pr_18;l,x;;;l. to users current device, the complete
.stor. notice cover page.)

.edit_(work09650.00).__ 2.3. (Reset paragraph and page number for the
.bp_1;___. first page of the notice.)
.bn_17;___.

.pr_17;l,x;area;;;l;l;2;;;l-1. (Print first page of text changed by notice
for logic condition override, to user's
current device, no initialization and
notice 1 to be printed.)

.bp_1;___. (Reset paragraph and page number for the
.bn_17;___. second page of the notice.)

.pr_17;l,x;area;;;l;l;2;;;l-1. (Print second page of text changed by
notice for logic condition override, to
user's current device, no initialization
and notice 1 to be printed.)

blank line (Exit input mode)

Each page changed by the notice will be printed as shown above.

.stor. (Editing work saved, enter system mode.)

Step 4. Execution Instructions - (Before Posting).

.new_(n00009650.00);ge9660. (Create the duplicate copy to contain the previous version of the guide.)

2.2 (Enter description of work activity.)

.du_(cegs09650.00). (Duplicate the cegs document.)

.rr. (Resolve references.)

NOTE: Punctuation flags should be selected, i.e., .fc_99;l.,
.fc_98;l., etc.)

.stor. (Editing work saved, enter system mode.)

.acce (n00009650.00);;all (Grant all users read access.)

.exec (100109650.00). (Execute the production instruction document.)

.logof. (logoff the system.)

Step 5. List the second print data set and make into a permanent data set.
Review the notice. After approval of the notice, the following
commands may be issued.

.delete_(u000109650.00). (Delete the notice cover page document.)

.delete_(100109650.00). (Delete the production instruction document.)

.udme_(cegs09650.00);(). (Send the update message to all creators of documents referencing this document.)

Step 6. Day before Posting.

.edit_(cegs09650.00);;l. (Edit the cegs document with the external reference override switch set to l.)

2.2 (Enter description of work activity.)

.po_(work09650.00). (Post the work copy to the cegs document.)

.gs_(.pr_l6;l,x;void,notl;;;l;l;l;;;;l-l.).
(gs the guide.)

.stor. (Editing work saved, enter system mode.)

.delete (work09650.00).

(Delete the work copy.)

.arch_ge9660.

(Archive the data set that contains the
previous version of the guide.)

NOTE: This dataset is repeatedly used for all notices applicable to the guide; therefore, at least 2 hours before the preparation of the next notice, user must retrieve this data set back from archive storage.

hs Notice 2 December 1981)3

*ape. Notices in force: As listed in paragraph 3. (N1 and N2 with basic provide all current pages.)_*344*

2j DEPARTMENT OF THE ARMY
2j OFFICE OF THE CHIEF OF ENGINEERS

*2j(12)CEGS-14250*_*344*
*2j(12) Notice 2*_*344*
*2j(12) December 1981*_*344*

*2j CORPS OF ENGINEERS GUIDE SPECIFICATION*_*344*
*2j MILITARY CONSTRUCTION*_*344*
2j ELEVATORS, HYDRAULIC

pd-In bringing guide specifications up to date, three categories of actions are used, as follows:

pe-Notice This category is used chiefly to distribute changes made to bring references up to date but may also include minor technical changes for which coordination with industry is not required.

p1-Change This category comprises one or more replacement pages used to distribute changes that have been fully coordinated, including any necessary coordination with industry. Previous notices are incorporated.

p1-Revision This category describes a complete revision, in which all pages of a guide specification are brought up to date and republished, hereinafter referred to as a basic specification.

pd-In addition to replacement pages issued as changes, notices for this guide specification are now issued as replacement pages. On notice pages, lines containing changes made since the last formal issue of the page, whether basic or change, are preceded by the number, in parentheses, of the last notice by which the line was changed. On change pages, asterisks appear before lines containing revisions of the previous formal issue of the page or before and after added or completely revised paragraphs and subparagraphs.

pd-As with formal page changes, notices in this form are not cumulative, and pages herein should be retained until a replacement page of later date, either change or notice, is issued. Below is a list of current replacement pages for the January 1980 issue of CGS-14250. C designates a change page as described above, for a page of the basic specification, N a notice page for a page of the basic specification,

344 and C/N a notice page for a change page.

+b18 *u*-12*
41-Page Marked (Date *u*-12*)

r-1 # N2 # Dec 81
r-5 # N1 # Nov 80

*rh-(**rjCEGS-14250**-*344*-**rjNotice 2**-*344*-December 1981**)*

Figure 10.1. Notice Cover Page.

PROCEDURE 11

PROCEDURE FOR PREPARING PROJECT AMENDMENTS AND CHANGE ORDERS

1. GENERAL DESCRIPTION.

All text contained in both amendments and change orders can be prepared in EDITSPEC. The procedure for both activities are the same.

2. PROCEDURES.

Before preparing the first amendment or change order to a project, the project set cycle number (.pscn) command must be issued to set the cycle number to zero. For illustrative purposes assume Amendment 1 for project 99mx is ready to prepare.

a. Specification Changes. The specification text is corrected in each project section document. The .nn command will be entered to designate the lines changed by the amendment (change order). When all the project section documents have been corrected the amendment (change order) can be prepared.

b. Amendment (Change Order) Cover Page. A new project document must be created to contain the unique text of the cover page. The first four character project identifier for this document is the identifier of the project for which the amendment (change order) is being prepared (99mx). The fifth and sixth characters will be an "au" ("cu" for change orders). The last characters will be the sequentially numbered amendment (change order) being prepared (01). The first line of this document will always contain the definition of the amendment (change order) footer to be right justified on the same line as the page number. The operator will enter the amendment (change order) text for this issue (Figure 11.1). The data set name used to store the complete amendment (change order) is the four character prefix of the project (99mx) followed by the letters "co".

c. Production Instructions. A new document will be created to contain all production instructions to the EDITSPEC system. The document name will be the same as above except the fifth and sixth letters will be "ap" ("cp" for change orders). The last characters will be the sequentially numbered amendment (change order) being prepared. The operator will issue the input command and add all printing instructions. The first .edit, .pr, and .stor will print the amendment (change order) cover page. Apply one set of .edit, .bp, bn, and .pr commands for each sequential specification change required.

d. Execution Instructions. Apply the .exec command to produce the complete amendment (change order). The cover pages and production instructions document may be deleted after publication.

3. COMMANDS.

Example of commands (with an explanation of each command) required for each document is as follows.

AD-A124 283

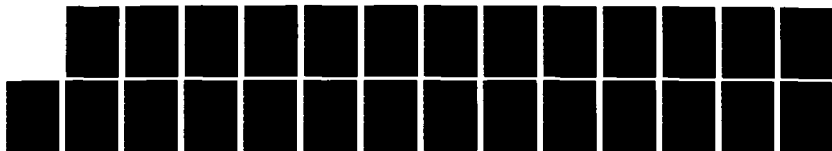
EDITSPEC: BASIC PROCEDURES MANUAL(U) CONSTRUCTION
ENGINEERING RESEARCH LAB (ARMY) CHAMPAIGN IL E S NEELY
15 NOV 81 DOD/DF-83/802A

2/2

UNCLASSIFIED

F/G 9/2

NL

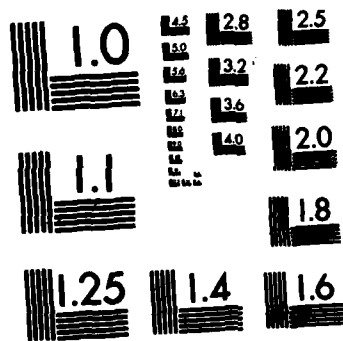


END

FILED

14

DTIC



MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

Step 1. Specification Changes.

.pacn (99mx).** (Reset the cycle number to 0 for the complete project)

NOTE: The above command is done once for the first amendment.
The command is issued again for the first change order.

.edit (99mx04200.00). (Edit the first section involved by the amendment)

2.2 (Enter description of work activity)

.nn 1. (Notice number set to 1 for amendment 1)

(change text as required)

.stor. (Editing work saved, enter system mode)

.edit (99mx09650.00). (Edit the next section)

2.2 (Enter description of work activity)

.nn 1. (Notice number set to 1 for amendment 1)

(change text as required)

.stor. (Editing work saved, enter system mode)

NOTE: Edit all the sections changed by the amendment, set each notice number to 1, and change the text as required.

Step 2. Amendment Cover Page.

.dscr 99mxco;150. (Create a data set with the project prefix followed by "co" large enough to store the complete amendment)

.new (99mxau01);99mxco. (Cover page document created on data set 99mxco with an immediate edit)

2.2 (Enter description of work activity)

.en ;/*fs (0001)3*/. (Enter the amendment number in the footer storage)

.in. (Enter input mode)

(enter the amendment cover)

blank line	(Exit input mode)
.en_ ;? *rf_ / **rj (Am-1) ** / * ? .	(Redefine the footer)
.stor.	(Editing work saved, enter system mode)
Step 3. <u>Production Instructions.</u>	
.new_99mxap01;99mxco.	(Production instruction document created on data set 99mxco with an immediate edit)
2.2	(Enter description of work activity)
.in.	(Enter input mode)
.edit_99mxau01. _ _ 2.3.	(Print with text and line number
.pr_28;1,x; ; ; ; ; 1.	columns to users current device, the
.stor.	cover page)
.edit_(99mx04200.00). _ _ 2.3.	(Reset paragraph and page number in
.bp_1; _ _ _ .	the first section of the changed
.bn_26; _ ; _ _ _ .	text)
.pr_27;1,x;area; ; ; ; ; 1;1;2; ; ; ; ; 1-1.	(Print first page of text changed by amendment for logic condition override, to user's current device, no initialization and notice 1 to be printed)
.bp_1; _ _ _ .	(Reset paragraph and page number for
.bn_26; _ ; _ _ _ .	the second page of the amendment in the same document)
.pr_27;1,x;area; ; ; ; ; 1;1;2; ; ; ; ; 1-1.	(Print second page of text)
.lt_cont;1.	(Print the table of contents number 1)
.stor.	(Editing work saved, enter system mode)
.edit_(99mx09650.00).	(Edit the next section changed by the amendment)
2.2	(Enter description of work activity)
.bp_1; _ _ _ .	(Reset paragraph and page number for
.bn_26; _ ; _ _ _ .	the first page in this section changed by the amendment)
.pr_27;1,x;area; ; ; ; ; 1;1;2; ; ; ; ; 1-1.	(Print first page of this section)

NOTE: Each page of each section of the amendment will be printed as shown above.

Step 4. Production Instruction Execution.

.exec_99mxap01.

(Execute the production instruction document)

NOTE: List the second print data set and make into a permanent data set.

Step 5. Review the Amendment.

After publishing delete the Amendment Cover Page and Production Instruction documents.

.dele_99mxau01.

.dele_99mxap01.

f₈ (0001) 3

npj-BIDDERS ARE REQUIRED TO ACKNOWLEDGE RECEIPT OF THIS AMENDMENT
ON THE BID FORM, IN THE SPACES PROVIDED, OR BY SEPARATE LETTER
OR TELEGRAM PRIOR TO OPENING OF BIDS. FAILURE TO ACKNOWLEDGE
ALL AMENDMENTS MAY CAUSE REJECTION OF THE BID. -*301*

ej DEPARTMENT OF THE ARMY -*302*
ej Huntsville Division, Corps of Engineers -*302*
ej PO Box 1600 -*302*
ej Huntsville, Alabama 35807 -*302*

u NOTICE TO BIDDERS -*u*

vj 80 Apr 17 -*301*

vj Amendment No. DACA87-80-B-0053-0001

p2-Invitation for Bids No. DACA87-80-B-0053 for Construction of Load,
Assemble, and Pack (LAP) Facilities at Mississippi Army Ammunition
Plant, Bay St. Louis, Mississippi is amended in the following

respects: -*301*

tb28
th -*u* Delete The -*302*
Following Pages -*u*

u -*u* Substitute The Following
Inclosed Pages (Am-1) -*u* -*301*

t

u -*u* SPECIFICATIONS -*u* -*301*

ej VOLUME I

p1 -*u*

TABLE OF CONTENTS -*u* -*301*

tb28

r -A, B _____ # _____ A(Am-1), B(Am-1)

t

p1 -*u* INFORMATION FOR BIDDERS -*u* -*301*

tb28

r -IFB-3, IFB-4 -*302*

IFB-3(Am-1), IFB-4

IFB-7, IFB-8

IFB-7(Am-1), IFB-8(Am-1)

t

p1 -*u* BID FORM -*u* -*301*

tb28

r -BF-1, BF-2 -*302*

BF-1(Am-1), BF-2 -*302*

BF-2A(Am-1), BF-2B(Am-1)

BF-5, BF-6 -*302*

BF-5, BF-6(Am-1) -*302*

BF-7, BF-8

BF-7(Am-1), BF-8

p1 -*u* INDEX OF GENERAL PROVISIONS -*u* -*301*

tb28

r -3 _____ # _____ 3(Am-1)

t

p1 -*u* GENERAL PROVISIONS -*u* -*301*

tb28

r -49 _____ # _____ 49, 50(Am-1)

t

*rf-/*rj(Am-1)**/

Figure 11.1. Amendment (Change Order) Cover Page.

PROCEDURE 12

SPECIFICATIONS WRITING WITH EDITSPEC TEXT EDITING SYSTEM

1. GENERAL.

The guidance contained herein is provided to furnish the engineer with one method of applying EDITSPEC text editing procedures to production of project specifications. No attempt has been made to cover all options.

2. WORKING COPY.

The draft copy of the guide may consist of a "list text print", a "print 2", or a formatted copy. Two versions (C1 listing - list text print and D1 listing - formatted print) are created whenever a new guide or changes to an existing guide are made. This is the most economical method of obtaining a working copy of a guide. Other versions of the guide are obtained by entering the appropriate command. The list text print is an unformatted copy of the guide, with the exception of tables which are formatted, without paragraph numbers, containing computer codes. Generally the list text print is more difficult for the engineer to use and easier for the terminal operator. The print 2 consists of a semi-formatted copy of the guide, which contains a few computer codes. The print 2 is less difficult than the list text print for the engineer to use but more difficult for the terminal operator. The formatted copy is the same as the printed guide and is easiest for the engineer to use. However, its use requires transfer of revisions to the list text print or print 2 for use by the terminal operator. List text print includes flag list. Flag list must be requested with print 2 and cannot be used with formatted copy. Technical notes occur, after paragraph to which they apply and at the end of guides in list text print and print 2. Notes occur at the end of guides only in formatted copy.

3. PREPARATION OF PROJECT SECTION.

Marking of the guide from EDITSPEC for a project is nearly identical to the previous methods used by specification writers. Inapplicable text is marked out, new text is inserted in the appropriate location.

a. Flags. Within the text of the guide, the specification writer will encounter commands of the form "***f123;\$phrases of guide text\$***". These commands are called flags, and each flag is defined in the flag table preceding the guide text. Flags permit the engineer to mark a selected phrase at one location and have that phrase selected throughout the guide wherever the same choice of phrases occurs. Flags also permit the terminal operator to make desired changes easily without repeating commands. As each flag is encountered while reading the guide, the specification writer should refer to the flag table and make the desired choice of words for the flag number, or 'flag id' encountered. For example, where the following text is encountered:

30700 Mortar for structural-clay-facing-unit or prefaced concrete /
 30800 masonry-unit wainscots shall be cement of one brand and aggregates
 30900 from one source, 100 percent passing the No. 8 sieve.
 31000 Pointing mortar in *fll17;\$showers and kitchens\$* shall contain
 31100 amonium stearate, or aluminum tri-stearate, or calcium stearate
 31200 in an amount equal to 3 percent by weight of cement used. /

The specification writer refers to the flag table and circles the appropriate flag choice (FCN)

SINGLE CHOICE FLAG ID = 17
 LOCATED ON OR NEAR LINE NUMBERS 31000
 *** FCN 1 showers /
 *** FCN 2 kitchens /
 *** FCN 3 showers and kitchens /
 *** DES mortar application

Some flags are designated as multiple-choice flags in the flag table, and consist of a list of choices plus the appropriate punctuation and connecting word. The designer may select any number of choices in a multiple-choice flag, but will not select the punctuation or connecting word. The selected choice or choices will be inserted in the text in place of the internal flag command when the section is printed. Flags marked out of the guide text must be marked out of the flag table.

b. Other Internal Commands. Internal commands other than flags are used. Like flags, other internal commands are enclosed in asterisks. These commands are usually used for the purposes of; automatic numbering of paragraphs, pages, and sections; formatting of paragraphs, tables, headers, and footers; copying text from other locations; and indexing. Internal commands are executed when the camera ready copy is printed.

c. Keywords. Before writing any project unique text, specification writer should produce a list of project design conditions that are not covered in the guide. Each item in the list should have a keyword that briefly, accurately describes the condition. The operator will use the keywords to search an index of documents that contain project unique text with the same keywords. Specification writer may review the text and decide if it can be applied to the project.

d. Text insertion. The working copy will be marked for insertion of project unique text. Instructions to terminal operator should accurately describe both the old and new locations of text. Instructions should be in the following forms:

"Copy lines 700-1500 from cogs 03414 and insert after
 line 1400."
 "Insert attached text after line 3500."

4. REVIEW DRAFT (IF REQUIRED).

Using EDITSPEC, some districts, but not all, use a typed review draft in final form. After the working copy has been marked up, flags selected, and project unique text developed, the terminal operator produces a draft section for review. Draft is printed as camera-ready copy containing line numbers. Specification writer will review the draft, mark changes, and

5. RESOLUTION OF REFERENCES AND PRINTING.

Before a project document is sent to print, it consists almost entirely of commands that copy text from other documents such as the guide specification and the master list of reference publications. Since these reference documents can be updated at any time, the project section must be changed to a stand-alone state at the time the document is sent to print. The terminal operator will issue a command to resolve external references, and the project section will be changed from copy commands to actual project text. At that point, the text is no longer automatically updated. External references should not be resolved until the project is ready for advertising.

6. INCORPORATION OF NOTICES.

At some point prior to printing the camera-ready copy for a section, the specification writer may be notified that a notice is being issued to the guide specification from which the project is being produced. If no action is taken, the notice will be automatically posted in the section of project specifications. If the specification writer decides not to incorporate the notice in the project section, instructions should be given to the terminal operator see other procedure.

PROCEDURE 13

SPECIFICATIONS WRITING WITH AUTOMATIC GENERATION

1. GENERAL.

The guidance contained herein is provided to furnish the engineer with one method of automatically generating project specifications using EDITSPEC. No attempt has been made to cover all options.

2. DESIGN CONDITION SECTION CHECKLIST.

The design condition checklist for each section gives design conditions that must be considered to produce a project specification section from a guide specification. The checklist is used in conjunction with a working copy of the guide specification and should be requested at the time the working or draft copy is requested.

3. WORKING COPY.

The working copy consists of guide text that is identified by pull identification numbers (ids). The pull ids are directly related to the numbered conditions in the design condition checklist. The purpose of the working copy is to provide the specification writer with reference points for insertion of project unique text, and the terminal operator with reference points (pull ids) for changing text after the project has been generated. If no unique text is needed and the writer does not wish to see the complete CE guide, a working copy will not be necessary.

4. PREPARATION OF PROJECT SECTION.

The checklist will be marked as described below, and the working copy reviewed to ensure that the guide covers all design conditions applicable to the project.

a. Checklist Instructions: One of the following actions is required for each checklist condition number.

- (1) Mark with a check mark if the design condition is selected.
- (2) Mark with an "X" if the design condition is rejected.
- (3) Leave unmarked if it is unknown whether or not the design condition will be selected.

An asterisk (*) preceding a condition number indicates that the designer must provide additional information if that condition is checked.

Designer will ignore instructions to terminal operator, given in the form of "f1" or line numbers enclosed in parentheses.

If project is in concept stage, designer may leave some conditions unmarked until it is known whether or not the design conditions involved will exist in the completed design. Text for unmarked conditions will be provided for review.

If project is in final design stage, designer will mark all design conditions on the list. Revisions to checklist markings should be made in a manner that preserves the original markings to permit tracking the history of the specification development.

b. Text Insertion. It will be necessary to mark the working copy for insertion of project unique text. Instructions to Terminal Operator should accurately describe both the old and new locations of text.

c. Storage of Unique Text. Sections, paragraphs, and other segments of text which may be needed in the future and which are not contained in CE guide specifications should be stored in a separate document or documents. These sections, paragraphs, and text segments may then be used repetitively in the future as though they were CE guides.

d. Applicable Publications. No review of the reference publications is required unless new publications not covered by the guide are added. The publications are keyed to the correct text and are constantly updated in the master list of reference publications.

5. REVIEW DRAFT (IF REQUIRED).

Using EDITSPEC, some districts, but not all, use a typed review draft in final form. After the checklist and working copy have been marked, the terminal operator generates the draft section for review. Draft is printed as camera-ready copy containing line numbers. Specification writer will review the draft and the checklist, mark changes on draft or checklist if required, and submit for production of final camera-ready copy. Camera-ready copy may or may not carry line numbers.

6. RESOLUTION OF REFERENCES AND PRINTING.

Before a project document is sent to print, it consists almost entirely of commands that copy text from other documents such as the guide specification and the master list of reference publications. Since these reference documents can be updated at any time, the project section must be changed to a stand-alone state at the time the document is sent to print. The terminal operator will issue a command to resolve external references, and the project section will be changed from copy commands to actual project text. At that point, the text is no longer automatically updated. External references should not be resolved until the project is ready for advertising.

7. INCORPORATION OF NOTICES.

At some point prior to printing the camera-ready copy for a section, the specification writer may be notified that a notice is being issued to the guide specification from which the project is being produced. If the specification writer decides not to incorporate a notice in the project section, instructions should be given to the terminal operator to stop posting at the desired notice number. If no action is taken, the notice will be automatically posted in the section of project specifications.

PROCEDURE 14

GUIDE SPECIFICATION ADAPTATION PROCEDURE

1. PURPOSE.

Guide Specifications may require up to three phases of development for use in EDITSPEC. Phase I, flag identification, is the minimum effort required to prepare the guide for text editing. Phase II, design condition identification, is the additional effort required to prepare a guide for automatic generation. Phase III, integration into the CAEADS system, will not be addressed, since CAEADS is still under development. The following procedure provides guidance and a standard method for adaptation of guide specifications under Phases I and II. Examples from various Corps of Engineers Guide Specifications are presented where clarification of an activity is necessary.

2. PHASE I - FLAGS.

Flags are phrases within guide text where a project designer would need to input information. Designer input may involve inserting data in a blank space or selecting one or more choices from a list of choices. Flags provide the flexibility to adjust the wording of a phrase, to list all combinations of items where a choice is required, or to insert data, without affecting the remainder of the guide specification. Flag development consists of two activities—marking internal flag commands in the guide, and preparing the flag table using edit flag commands.

a. Internal Flags: Phrases to be flagged will be marked in the following fashion: *fID;\$text to be flagged\$*. The asterisks will denote the exact beginning and exact end of the phrase. The ID will be an integer between 1 and 99. Flag ID's will be numbered sequentially as each new flag is encountered in the text. As each new internal flag is identified, an edit flag using the same flag ID must be written for incorporation in the flag table. If flags have been identified at an earlier date, additional flag ID's must be inserted out of sequence.

b. Edit Flags: The edit flag consists of three elements: ID, numbered choices, and a description. Each flag can have up to 99 choices with the description and choices limited to 200 EDITSPEC characters each. EDITSPEC characters are the same as typed characters, except a space counts as a character and a capital letter counts as two characters. In the list, each flag choice is separated from the following choice by a comma, and the last choice is followed by a semicolon and the description.

(1) Each flag choice will be worded, capitalized and punctuated exactly as the text should appear when it is printed in place of the internal flag.

(2) The flag description will be a concise statement that enables the designer to easily relate the choices to the location or function of that flag in the marked guide.

(3) A multiple choice flag should be used when many combinations of choices are possible, as in a list of items. Each item will be listed as a flag choice, the comma separating each item will be a choice, and the word connecting the last two items of the list will also be a choice. The comma and connecting word choices will be separated by a hyphen. During production of a project specification, the system will insert the comma, connecting word, or both in the correct sequence in the list.

(4) Flag Table: The list of edit flag commands is entered into the guide specification flag table. The system numbers each choice and lists the line number on which the corresponding internal flag appears in the guide. Each flag is identified as either a single-choice or multiple-choice flag by the system. When the table is listed for use by the project designer, each choice is listed separately to allow for easy selection of choices or to provide room for data insertion.

a. Examples:

(1) Single Choice Flags:

Internal Flag Marking: On *f16;\$Concrete or Insulation\$* Surfaces:

Edit Flag Command: .f1 6;(Concrete),(Insulation),(Concrete or Insulation);(type of roofing substrate).

Form in Flag Table: SINGLE CHOICE FLAG ID = 6
 LOCATED ON OR NEAR LINE NUMBER 5100
 *** FCN 1 Concrete /
 *** FCN 2 Insulation /
 *** FCN 3 Concrete or Insulation /
 *** DES type of roofing substrate

NOTE: A space is required at the end of each flag choice unless the first character in the text following the internal flag is a punctuation mark. The slash character in the table is placed by the computer after the last EDITSPEC character of the choice and verifies the existence of the trailing space.

(2) Multiple Choice Flags:

Internal Flag Marking: *f15;\$Cants, Crickets, Curbs, and Fills\$*:

Edit Flag Command: .f1 5;(Cants),(Crickets),(Curbs),(Fills),
 (,)-(and);(roofing materials)

Form in Flag Table: MULTIPLE CHOICE FLAG ID: 5
 LOCATED ON OR NEAR LINE NUMBER 11520
 *** FCN 1 Cants/
 *** FCN 2 Crickets/
 *** FCN 3 Curbs/
 *** FCN 4 Fills/
 *** FCN 100 , /
 *** FCN 200 and /
 *** DES roofing materials

(3) Data Insertion Flags:

Internal Flag Marking: capacity of *fl2;\$.....\$*
gallons per minute

Edit Flag Command: .fl 2;(.....);
(condensate pump capacity, gpm).

3. PHASE II - DESIGN CONDITIONS.

Design conditions are those conditions that must be considered by a designer when writing a project specification. For EDITSPEC purposes, a checklist will be produced that lists all design conditions covered by a guide specification. Each condition will be assigned a condition number. The condition number will be used to identify text that should be pulled from the guide specification and placed into a project specification when that condition exists.

a. Checklist: Each design condition will be a numbered, unique statement that requires a project designer to decide if that condition does or does not exist for the project. The first statement will always be the control condition used to identify text phrases that are used in every project specification. All other statements will be listed in the same general order as a designer would encounter the conditions during a project design, starting with conditions of higher priority and ending with conditions of a lower priority.

(1) Flags that require data insertion will be incorporated into a related design condition or will be included in a separate statement that specifies the exact type of data required, including units of measure if applicable. An asterisk will precede the condition number for statements that require data insertion. The flag ID for blank flags will be enclosed in parentheses at the end of the statement to alert the terminal operator. The statement will include a slash after the blank if punctuation follows the blank in the text, since the terminal operator will type a space after the data insertion if punctuation is not shown.

(2) Tables that require data insertion can be handled in a checklist by providing the specification writer with the spaces to fill in and providing the terminal operator with a copy table (CT) command to use when editing the project. The CT command is obtained after pull commands for the guide have been issued, and is of the form: (.ct ; pull id of 0 table column.)

(3) Reference publications should not be included in checklist statements. Such references require documentation for notice updating purposes--a problem that should be avoided whenever possible.

b. Text Identification: Each line, phrase, paragraph number and punctuation mark must be under control of at least one design condition before it can be pulled from a guide specification and placed in a project specification. To establish this pull control, the guide text is identified by marking the appropriate design condition number next to the text phrase that will be pulled by that condition. Any text phrase or body of text that is controlled by a set of design condition numbers is called a pull.

(1) Flag Pulls: Each choice listed for each flag ID in the flag table prepared during Phase I is a pull, and will be assigned the appropriate condition numbers. Flag pulls are identified in the PULL command by flag ID and flag choice number.

EXAMPLE-MARKING INTERNAL FLAGS

2. GENERAL: Metal toilet partitions including toilet enclosures, room entrance screens, and urinal screens, shall conform to the layouts shown. At the locations indicated, anchorage to walls shall be by through-bolting. Color of panels shall be _____ as selected from the manufacturer's standard colors.

EXAMPLE - MARKING FLAG CHOICES

MULTIPLE CHOICE FLAG ID= 1

*** FCN 1 toilet enclosures/
 *** FCN 2 room entrance screens/
 *** FCN 3 urinal screens/
 *** FCN 100 , /
 *** FCN 200 and /
 *** DES toilet partition type



FLAG PULLS

SINGLE CHOICE FLAG ID= 2

*** FCN 1 through-bolting/
 *** FCN 2 toggle-bolting/
 *** FCN 3 through-bolting and toggle bolting/
 *** DES wall anchorage



SINGLE CHOICE FLAG ID= 3

*** FCN 1 /
 *** DES partition color



(2) Line Pulls: Line pulls may be text phrases of any length, and are identified in the EDITSPEC PULL command by line numbers. Pulls that occur within a line or a paragraph will be separated from preceding and following pulls by slash marks, and the appropriate design conditions will be written directly above or otherwise clearly related to the text to be pulled. Longer bodies of text such as paragraphs will be bracketed in the margin, with the condition numbers next to the bracket.

EXAMPLE-MARKING TEXT LINES

LINE PULLS

② 14. TOILET ENCLOSURES shall conform to Fed. Spec. RR-P-1352, Type I, Style [A] [B] [C]. Width of toilet enclosures shall be as shown. Finish surface of panels shall be baked enamel. Panels indicated to receive toilet paper holders or grab bars as specified in SECTION: TOILET ACCESSORIES shall be reinforced for the reception of the items required.



- ③ 5. ROOM ENTRANCE SCREENS shall conform to Fed. Spec RR-P-1352, Type II, Style A. Finish surface of screens shall be baked enamel. Length and height of screens shall be as shown.

6. ④ URINAL SCREENS shall conform to Fed. Spec. RR-P-1352, Type III, Style [A] [D]. *Finish surface of screens shall be baked enamel. /Style A screens shall be [24] [36] inches wide. /⑨⑩

(3) Row and Column Pulls: Condition numbers for each table column will be marked above the column header. Condition numbers for each row will be marked to the left of the row. Both the row and column conditions must be satisfied before a table position is pulled. If none of the positions under a column are pulled, the header for that column will not be pulled. Table text is identified in the PULL command by column and row number.

TABLE II. FIRE-RATED MASONRY UNITS

①	Aggregate Type	Minimum Equivalent Thickness in Inches for Fire Rating of:		
		4 hours	3 hours	2 hours
	Pumice	4.7	4.0	3.0
	Expanded slag	5.0	4.2	3.3
⑦⑧⑨	Expanded clay, shale, or slate	5.7	4.8	3.7
⑧⑨	Limestone, scoria, cinders or unexpanded slag	5.9	5.0	4.0
	Calcareous gravel	6.2	5.3	4.2
	Siliceous gravel	6.7	5.7	4.5

a. Rules for Assigning Condition Numbers: The following rules represent the design capability and limitations of EDITSPEC in regard to pulling of text.

(1) When several conditions can be applied to the same line, flag, column, or row pull, they are classified as either dependent or independent and marked in the guide text as follows:

(a) Dependent - all of the conditions must exist before the phrase is pulled. Condition numbers are not separated by commas.

EXAMPLE - DEPENDENT CONDITIONS

⑤⑦ 14.1 Perimeter Felt Joints: Construction joints between interior slabs on grade and vertical surfaces shall consist of 30-pound asphalt-saturated felt, extending for the full depth of the slab. The perimeters of the slabs shall be free of fins, rough edges, spalling, or other unsightly appearance.

(b) Independent - any one of the conditions will pull the phrase. Condition numbers are separated by commas.

EXAMPLE - INDEPENDENT CONDITIONS

④③, ④④ 12. Perimeter Insulation: Perimeter insulation shall be applied with adhesive to the interior surface of foundation walls, extending from the underside of the slab to the depth indicated.

(c) Negative dependent - all of the conditions must not exist before the phrase is pulled. First condition number is preceded by a minus sign (-), condition numbers are not separated by commas.

(d) Negative independent - any one of the conditions must not exist for the phrase to be pulled. First condition number is preceded by a minus sign (-), and all condition numbers are separated by commas.

(e) Dependent and independent marking cannot be used on the same pull.

(f) Positive and negative marking cannot be used for the same pull.

(2) Where flag choices are pulled by dependent conditions, the first choice listed for the flag must have the least number of dependent conditions and the last choice must have the highest number of dependent conditions.

EXAMPLE - PULLING FLAG CHOICES WITH DEPENDENT CONDITIONS

Flag ID	Flag Choice Number	Design Condition
5	1 Precast Gypsum	⑥
	2 Cast-In-Place Gypsum	⑦
	3 Insulating Concrete	⑧
	4 Precast Gypsum or Cast-In-Place Gypsum	⑥⑦
	5 Precast Gypsum or Insulating Concrete	⑥⑧
	6 Cast-In-Place Gypsum or Insulating Concrete	⑦⑧
	7 Precast Gypsum, Cast-In-Place Gypsum or Insulating Concrete	⑥⑦⑧

(3) Where a combination of both dependent and independent conditions is possible for a flag choice, the choice can be duplicated in the flag table so that each duplication is pulled by dependent conditions only. All the duplications can have the same flag choice number.

**EXAMPLE - PULLING FLAG CHOICES WITH BOTH
DEPENDENT AND INDEPENDENT CONDITIONS.**

Flag ID	Flag Choice Number	Design Condition
7	1 Concrete	④, ⑤
	2 Insulation	②, ③
	3 Concrete or Insulation	②, ④
	3 Concrete or Insulation	②, ⑤
	3 Concrete or Insulation	③, ④
	3 Concrete or Insulation	③, ⑤

(4) Internal flags (within the text) are pulled by line pulls. Choice from the edit flag (within the flag table) are pulled only if the line containing the corresponding internal flag is pulled.

a. PULL Command: This command is the final link in relating guide text to design conditions in the checklist. After the text is completely identified, the terminal operator separates the text, beginning text on a new line wherever slash marks are encountered in the markup. Each line is numbered by the computer and a text listing is printed for use in coding of PULL commands. A PULL command is written for each pull encountered in the text. The coding identifies positive or negative; and where the text was stored. The order in which the PULL commands are listed determines the order in which pulls are printed in a project. In the PULL command list, all the column pulls for a table must be listed before the row pulls. A table header is pulled using a column pull for a zero (0) column. The comma and connecting word choices for a multiple choice flag are pulled using a flag pull for a zero (0) flag choice number, and using condition 1.

(1) Evaluation Mode: The various classes of pulls are assigned evaluation mode numbers in the pull command as follows:

Independent conditions - 0
Dependent conditions - 1
Negative independent conditions - 2
Negative dependent conditions - 3

(2) Type of Text: The various types of text are assigned the following letters in the pull command:

Text lines - l
Text flags - f
Table columns - c
Table rows - r

b. Checkout. After entering pull commands into the guide specification the user should list the pulls and check them against the text to ensure that no typing errors have been made. The PLTX table has been developed for checkout purposes.

c. Logic Conditions: Related text phrases from different documents or from within a document can be tied together using the LOGIC CONDITION command. In automatic generation, a project spec writer would be alerted if he tried to use one text phrase that is logically connected to another phrase. Logic conditions also have applications to Phase III of EDITSPEC development.

d. SPEC Command: After each guide specification has been completely marked for automatic text pulling, the computer must be informed of the total number of design conditions defined in the checklist. The SPEC command using the last 8 characters of the guide name and the "add" option is used to define the total conditions. In the event that a notice change affects the number of conditions in the checklist, the old number of conditions will be changed using the SPEC command.

e. Example. An example of guide CEGS10160.00 follows. The example shows the text marked for flags and pulls (Figure 14.1), the checklist (Figure 14.2), instructions for completing the checklist (Figure 14.3), a listing of text after the operator breaks out the pulls (Figure 14.4), and the pull commands (Figure 14.5). The listing of text is not the version that will be used by a project specification writer, but will be used for reference by the user who writes the pull commands.

4. GENERAL IDENTIFICATION

a. Master Chronological List. This list is a table that contains a list of applicable publications and guide specifications in the order issued. The document name is REFEMASTERCL. Applicable publications for guides are copied from this document.

b. Master Index. The document CEGSMATERIX, or EP 310-1-5, consists of *CT* commands copying from REFEMASTERCL. In the master index, guide specifications are listed in numerical order of document numbers. Applicable publications are also listed in a definite order for publication purposes.

c. Master Printing Order. The document CEGSMATERISP consists of *CO* commands, each of which copies an entire guide specification. The order in which the guide specs are copied into MASTERISP determines the printing order of sections when a project specification is produced using the PRINT PROJECT COMMAND.

d. Master Design Conditions. Design conditions should be written defining when each document listed in the MASTERISP will be required in a project. The total number of conditions will be defined using the command: .spec mastersp;a;number.

CORPS OF ENGINEERS GUIDE SPECIFICATION
MILITARY CONSTRUCTION

①

SECTION 10

METAL TOILET PARTITIONS

(A)

- (3) 1. APPLICABLE PUBLICATION: The Federal Specification (Fed. Spec.) listed (B)
(3) below forms a part of this specification to the extent referenced. The
(3) publication is referred to in the text by the basic designation only.
(3)

(2) RR-P-1352A Partitions, Toilet, Complete.
(3) & AM-2

2. GENERAL: Metal toilet partitions, including toilet enclosures, (C)
room entrance screens, and urinal screens, shall conform to the layouts
shown. At the locations indicated, anchorage to walls shall be by
through-bolting. Color of panels shall be as selected from the
manufacturer's standard colors.

3. SHOP DRAWINGS: Shop drawings shall be submitted for approval in
accordance with the SPECIAL PROVISIONS. Shop drawings shall show plans,
elevations, details of construction, gages of metal, hardware, reinforcing,
fittings, mountings, and anchorings.

4. TOILET ENCLOSURES shall conform to Fed. Spec. RR-P-1352, Type I, (D,E)
Style (A) (B) (C). Width of toilet enclosures shall be as shown. Finish
surface of panels shall be baked enamel. Panels indicated to receive
paper holders or grab bars, as specified in SECTION: TOILET ACCESSORIES
shall be reinforced for the reception of the items required.

5. ROOM ENTRANCE SCREENS shall conform to Fed. Spec. RR-P-1352, Type II, (F)
Style A. Finish surface of screens shall be baked enamel. Length and
height of screens shall be as shown.

6. URINAL SCREENS shall conform to Fed. Spec. RR-P-1352, Type III, (G)
Type (A) (D). Finish surface of screens shall be baked enamel. Style A (9) (10)
screens shall be (24) (36) inches wide.

7. INSTALLATION: Toilet partitions shall be installed straight and
plumb with all horizontal lines level and rigidly anchored to the
supporting construction. Drilling and cutting for installation of anchors
shall be at locations that will be concealed in the finished work. Doors (2)
shall have a uniform vertical edge clearance of approximately 3/16 inch
and shall rest open at approximately 30 degrees when unlatched. Baked (1)
enamel finish shall be touched-up with the same type and color of paint
that was used for the finish. Toilet partitions shall be cleaned and
protected from damage until acceptance.

Figure 14.1. Guide Specification

200
400
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3000
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3100
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3400

DEPARTMENT OF THE ARMY
OFFICE OF THE CHIEF OF ENGINEERS

CEGS-10160
August 1981
Superseding
CEGS-10160

Notice 3
December 1978

CONCEPT DESIGN

FINAL DESIGN

CHECKLIST -- CGES-10160 -- METAL TOILET PARTITIONS

<u>Condition</u>	<u>DESIGN CONDITIONS</u>
<u>Number</u>	
1	Control Condition (No Action Required)
	Toilet Partition Type:
2	Toilet Enclosure
3	Room Entrance Screen
4	Urinal Screen
* 5	Partition Color:/ (f12)
	Toilet Enclosure Style:
6	Floor-Supported (Style A)
7	Ceiling-Hung (Style B)
8	Overhead-Braced (Style C)
	Urinal Screen Style:
9	Floor-Supported, 24-Inch Width
10	Floor-Supported, 36-Inch Width
11	Wall-Hung (Style D)
	Wall Anchorage:
12	Through-Bolts
13	Toggle Bolts
	Toilet Enclosure Accessories:
14	Toilet Paper Holders
15	Grab Bars

THE END

Figure 14.2. Design Condition Checklist

INSTRUCTIONS FOR MARKING
DESIGN CONDITION CHECKLIST

Preparing the Project Specification Using Automatic Generation:
Checklist will be marked as described below, and working copy will be reviewed to ensure that the guide covers all design conditions applicable to the project.

a. Checklist Instructions: One of the following actions is required for each checklist condition number:

- (1) Mark with a check mark if the design condition is true.
- (2) Mark with an "X" if the design condition is false.
- (3) Leave unmarked if the design condition is unknown.

An asterisk (*) preceding a condition number indicates that the designer must provide additional information if that condition is checked.

Designer will ignore instructions to terminal operator, given in the form of "fl" or line numbers enclosed in parentheses.

Mark with a check the appropriate design stage. If project is in concept stage, designer may leave some conditions unmarked. Text for unmarked conditions will be provided for review. If project is in final design stage, designer will mark all design conditions on the list. Revisions to checklist markings will be made in a manner that preserves the original markings.

At the end of the checklist, add a list of conditions not covered in the guide specification. Each statement should be a key word that briefly describes the condition. The operator will use the key words to locate text used for similar conditions in different projects.

b. Text Insertion: Mark the working copy where project unique text will be inserted. Instructions to terminal operator should accurately describe by line number both the old and new locations of text to be inserted.

Figure 14.3. Instruction For Completing Checklist

SEGMENT ID	LINE NO.	NCN	TEXT
proj	10	7	*elja /
proj	20	10	*bp 1.0* /
	86	86	*bs
	100	29	*lj DEPARTMENT OF THE ARMY* /
	200	27	*lj(-11) CEGS-10160* *a1* /
	300	39	*lj OFFICE OF THE CHIEF OF ENGINEERS* /
	400	36	*a1 *lj(-11) March 1977* *a1* /
	500	28	*lj(-11) Superseedings* *a1* /
	600	25	*lj(-11) CE-10160* *a1* /
	700	20	*cj Notice 3* *a1* /
	800	26	*cj December 1978* *a1* /
	900	50	*cj CORPS OF ENGINEERS GUIDE SPECIFICATIONS* *a1* /
	1100	34	*cj MILITARY CONSTRUCTION* *a14* /
not1	1110	15	*rj (A)* *a1* /
	1200	20	*cj SECTION* /
proj	1220	9	*p2a26* /
	1230	7	*a1* /
not1	1300	35	*cj METAL TOILET PARTITIONS* *a1* /
	1310	26	*a1* *rj (B)* *ap* *a1* /
	1400	44	*tc 1; *a1* APPLICABLE PUBLICATION* : The /
	1500	70	Federal Specification (Fed. Spec.) listed below forms a part of this /
	1600	73	specification to the extent referenced. The publication is referred to /
	1700	50	in the text by the basic designation only. *a1* /
	1900	10	*tb 250* /
	2000	51	*ct (refmastercl):48;21900:100;1:1,2:2;50000099* /
	2100	6	*a1* /
-50021900			NR-P-1352A
-50021900			6 An-2
-50021900			Partitions, Toilet, Complete
not1	2110	26	*a1* *rj (C)* *ap* *a1* /
	2200	60	*tc 1; *a1* GENERAL* : Metal toilet partitions, including /
	2300	92	*f11 *toilet enclosures, room entrance screens and urinal screens*, shall conform to the /
	2400	76	layouts shown. At the locations indicated, anchorage to walls shall be by /
	2500	90	*f12; through-bolting*. Color of panels shall be *f13;.....*, as selected from the /
	2600	34	manufacturer's standard colors. /
not2	2610	19	*co ;3;7400-7900* /

CEGS-10160 (March 1977)* *a1* /

Figure 14.4. Working Copy (List Text).

C. Paragraph 2: Toilet partitions and urinal enclosures in barracks, and other hard-usage areas, as well as those partitions on which grab bars are to be mounted, will be indicated to be bolted to walls. Through-bolting will be specified for these applications, except toggle bolts may be specified when through-bolting would be exposed in a finished room or would otherwise be unsuitable.

-7400
-7500
-7600
-7600
-7700
-7800
-7800
-7900

*cc 1; *pl SHOP DRAWINGS: Shop drawings shall be submitted / for approval in accordance with the SPECIAL PROVISIONS. / Shop drawings shall show plans, elevations, details of construction, sizes / of metal, hardware, reinforcing, fittings, mountings, and anchorings. /

2700
2800
2900
3000
3010

not 1

*cc 1; *pl TOILET ENCLOSURES shall conform to / Fed. Spec. MR-1-1352, Type 1, Style #14;SA) (B) (C) * . Width / of toilet enclosures shall be as shown. Finish surface of panels shall be baked enamel. / Panels indicated to receive #15;toilet paper holders or grab bars* / as specified in SECTION: TOILET ACCESSORIES / shall be reinforced for the reception of the items required. /

3100
3200
3300
3400
3500
3600
3610

not 2

D. Paragraph 4: Metal toilet partitions with an enamel finish are suitable for use in installations where the partitions are subjected to normal usage and exposure conditions. Metal toilet partitions will not be used where severe water conditions will be encountered, such as where cleaning is to be performed by spraying water.

-8000
-8100
-8100
-8200
-8300
-8300
-8400
0

E. Paragraph 4: Floor-supported enclosures, Style A, will be used generally; and overhead-braced enclosures, Style C, will be used when pilasters cannot be anchored into structural concrete. Ceiling hung enclosures, Style B, will be used only when the additional cost is justified for reasons of sanitation or appearance.

-8500
-8600
-8700
-8700
-8800
-8900
-8900
0

Enclosure widths of 32 inches, 34 inches, and 36 inches are readily available. Except for enclosures without doors, widths other than those mentioned will be avoided.

-9100
-9200
-9300
-9300
0

This section will be coordinated with SECTION: TOILET ACCESSORIES and the drawings regarding toilet enclosures which will have toilet paper holders and/or grab bars attached to the panels.

-9500
-9600
-9700
-9700

not 1

3620 26 *pl *rj (D) * *mp *pl /

3700	54	etc 1: *pl* ROOM ENTRANCE SCREENS * shall conform to /
3800	60	Fed. Spec. RA-P-1352, Type II, Style A. Finish surface of /
3900	74	screens shall be baked enamel. Length and height of screens shall be as /
4000	9	shown. /
4010	20	*co 15:9800-10000* /
not 2		
-9800		
-9900		
-10000		
-10000		
not 1		
4020	26	*all* *cfj (C)* *up* *pl* /
4100	79	etc 1: *pl* URINAL SCREENS * shall conform to Fed. Spec. RA-P-1352, Type III. /
4300	74	Style *16:5A (D)*. Finish surface of screens shall be baked enamel. /
4400	56	Style A screens shall be *17,24 136* inches wide. /
4410	21	*co 16:10100-10600* /
not 2		
-10100		
-10200		
-10300		
-10300		
-10400		
-10500		
-10600		
-10600		
not 1		
4602	57	etc 1: *pl* INSTALLATIONS: Toilet partitions shall be /
4604	74	installed straight and plumb with all horizontal lines level and rigidly /
4606	68	anchored to the supporting construction. Drilling and cutting for /
4608	93	installation of anchors shall be at locations that will be concealed in the finished work. /
4610	53	Doors shall have a uniform vertical edge clearance of /
4612	90	approximately 3/16 inch and shall rest open at approximately 30 degrees when unlatched. /
4614	64	Baked enamel finish shall be touched-up with the same type and /
4616	74	color of paint that was used for the finish. Toilet partitions shall be /
4618	54	cleaned and protected from damage until acceptance. /
4700	6	*sp* /
not 1	25	*cfj GENERAL NOTES *pl* /
not 1	8	*bp 2* /
not 1		
5000	77	*p7u2* This guide specification is to be used in the preparation of project /
5100	73	specifications in accordance with ER 1110-345-720. It will not be made /
5200	77	a part of a contract merely by reference; pertinent portions will be copied /
5300	40	verbatim into the contract documents. /
not 1		

Figure 14.4. Working Copy (List Text). Cont.

notl	5400	72	*p7n2 ^a The capital letters in the right margins indicate that there is /
notl	5500	77	a technical note pertaining to that portion of the guide specification. It /
notl	5600	82	is intended that the letters in the margins be deleted before typing the project /
notl	5700	18	specifications. /
notl	5800	78	*p7n2 ^a Where numbers, symbols, words, phrases, clauses, or sentences in this /
notl	5900	77	specification are enclosed in brackets [], a choice or modification must be /
notl	6000	78	made; delete inapplicable portion(s) carefully. Where blank spaces occur in /
notl	6100	74	sentences, insert the appropriate data. Where entire paragraphs are not /
notl	6200	54	applicable, they should be deleted completely. *s14 ^a /
notl	6300	27	*cj TECHNICAL NOTES ^a *s1 ^a /
notl	6400	8	*bp 3 ^a /
notl	6500	77	*pa ^a A. The section number should be inserted in the specification heading /
notl	6600	62	and prefixed to each page number in project specifications. /
notl	6700	75	*pa ^a B. Paragraph 1: The listed designations for publications are those /
notl	6800	72	that were in effect when this guide specification was being prepared. /
notl	6900	76	These designations are updated when necessary by Notice, and references in /
notl	7000	77	project specifications need be no later than in the current Notice for this /
notl	7100	72	guide specification. To minimize the possibility of error, the letter /
notl	7200	79	suffices, amendments, and dates indicating specific issues should be retained /
notl	7300	70	in paragraph 1 and omitted elsewhere in the project specifications. /
notl	7400	78	*pa ^a C. Paragraph 2: Toilet partitions and urinal screens in barracks, and /
notl	7500	76	other hard-usage areas, as well as those partitions on which grab bars are /
notl	7600	74	to be mounted, will be indicated to be bolted to walls. Through-bolting /
notl	7700	70	will be specified for these applications, except toggle bolts may be /
notl	7800	71	specified when through-bolting would be exposed in a finished room or /
notl	7900	33	would otherwise be unsuitable. /
notl	8000	74	*pa ^a D. Paragraph 4: Metal toilet partitions with an enamel finish are /
notl	8100	73	suitable for use in installations where the partitions are subjected to /
notl	8200	76	normal usage and exposure conditions. Metal toilet partitions will not be /
notl	8300	80	used where severe water conditions will be encountered, such as where cleaning /
notl	8400	40	is to be performed by spraying water. /
notl	8500	74	*pa ^a E. Paragraph 4: Floor-supported enclosures, Style A, will be used /
notl	8600	71	generally; and overhead-braced enclosures, Style C, will be used when /
notl	8700	70	pillasters cannot be anchored into structural concrete. Ceiling hung /
notl	8800	68	enclosures, Style B, will be used only when the additional cost is /
notl	8900	53	justified for reasons of sanitation or appearance. /
notl	9000	7	*alle /

Figure 14.4. Working Copy (List Text). Cont.

notl	9100	81	Enclosure widths of 32 inches, 34 inches, and 36 inches are readily available. /
notl	9200	77	Except for enclosures without doors, widths other than those mentioned will /
notl	9300	14	be avoided. /
notl	9400	7	*ella /
notl	9500	56	This section will be coordinated with SECTION: TOILET /
notl	9600	64	ACCESSORIES and the drawings regarding toilet enclosures which /
notl	9700	74	will have toilet paper holders and/or grab bars attached to the panels. /
notl	9800	75	*pn* F. Paragraph 5: Length and height of room entrance screens will be /
notl	9900	72	shown on the drawings, using standard size panels and pilasters to the /
notl	10000	30	maximum extent practicable. /
notl	10100	70	*pn* G. Paragraph 6: A urinal screen between individual urinals is /
notl	10200	70	generally not necessary or desirable. Use of urinal screens will be /
notl	10300	70	limited to those applications where sanitary protection is required, /
notl	10400	75	such as between a urinal and an immediately adjacent lavatory. Wall-hung /
notl	10500	71	urinal screens will be used only where the supporting construction is /
notl	10600	22	masonry or concrete. /
notl	10610	7	*ella /
notl	10700	10	*cj END* /

Figure 14.4. Working Copy (List Text). Cont.

PULL COMMANDS

.pull ;;	evaluation mode	list of ; design conditions	type of ; text	starting ; line no.	ending ; line no.	text ; segment id.
.pull ;;	0	2	f	1	1	
.pull ;;	0	3	f	1	2	
.pull ;;	0	4	f	1	3	
.pull ;;	1	2,3	f	1	4	
.pull ;;	1	2,4	f	1	5	
.pull ;;	1	3,4	f	1	6	
.pull ;;	1	2,3,4	f	1	7	
.pull ;;	0	12	f	2	1	
.pull ;;	0	13	f	2	2	
.pull ;;	1	12,13	f	2	3	
.pull ;;	0	5	f	3	1	
.pull ;;	0	6	f	4	1	
.pull ;;	0	7	f	4	2	
.pull ;;	0	8	f	4	3	
.pull ;;	0	14	f	5	1	
.pull ;;	0	15	f	5	2	
.pull ;;	1	14,15	f	5	3	
.pull ;;	0	9,10	f	6	1	
.pull ;;	0	11	f	6	2	
.pull ;;	0	9	f	7	1	
.pull ;;	0	10	f	7	2	
.pull ;;	0	1	l	10	20	proj.
.pull ;;	0	1	l	1220	1220	proj.
.pull ;;	0	1	l	1230	1300	
.pull ;;	0	1	l	1300	1700	
.pull ;;	0	1	c	1900	0	
.pull ;;	0	1	c	1900	1	
.pull ;;	0	1	c	1900	2	
.pull ;;	0	1	f	1900	100	
.pull ;;	0	1	l	2200	2600	
.pull ;;	0	1	l	2700	3000	
.pull ;;	0	2	l	3100	3300	
.pull ;;	0	14,15	l	3400	3600	
.pull ;;	0	3	l	3700	4000	
.pull ;;	0	4	l	4100	4300	
.pull ;;	0	9,10	l	4400	4400	
.pull ;;	0	1	l	4602	4608	
.pull ;;	0	2	l	4610	4612	
.pull ;;	0	1	l	4614	4618	

Figure 14.5. Pull Commands

END

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DTIC