

Falcon Database Information

Purpose

This document provides standard procedures for filling in the Falcon Document Management System's required database fields and shall be used in all cases.

Scope

The database information that Falcon provides will be extracted and used by other programs in the electronic plan process. The major usage for the Falcon database information is:

- **Producing an Index of Files**
 - Status = index

- **Archiving files at different stage of Concurrent Engineering Project Development**
 - Adv. Submission
 - As Built
 - Construction Revision
 - Field Inspection
 - Pre Award Revision
 - Preliminary Field Inspection
 - Public Hearing
 - R/W Partial
 - R/W Total

- **Automatic tif file generation for Electronic Plan Submission**
 - Tif files created by designer is automatically renamed and placed into Plan File Room environment. Tif files are converted automatically to PDF before added to the Plan File Room.

It is very important to follow these instructions and complete the database information as soon as possible so it does not cause any delays to a projects schedule. All database information on new projects from receipt of these instructions **must** have the information keyed in as the files are created.

Falcon has been implemented statewide and is used to share files between multiple disciplines. Designers should be as informative as possible when entering descriptions since someone searching for a document may use the descriptions.

Falcon has another tool to update database fields for multiple files; this tool is called Mass Update. This command is found under Tools --> Mass Update Tools.

The remaining portion of this document provides illustrations and procedures to follow when filling out the **required** database fields. If you need more assistance or have questions that were not answered please call the **CADD Helpdesk at 888-683-0345 or 786-1280.**

Illustrations & Procedures

The following screen captures show the **required** fields highlighted in yellow, however there are times when the field may be left blank. Please read the following carefully.

All Files

General Information Tab

File Format	Keywords	Title Block
General Info.		
PPMS #	57546	
Division	d57546	
SubDirectory		
Description	Title Sheet	
Sheet #	01	
Status	index	
Availability	On Server	
Last Modify Date	07/06/2004	
Last Checked Out By	tracy.wood	
Created On	03/14/2003	
Created By	wood_tm	
File Format	igds	

In the “**Sheet #**” field, place the sheet number. Description must be filled in. If the sheet number is 1 thru 9 place a zero in front of the sheet number. (For example if the sheet number is 2e the Sheet # should be 02e.) If the file is not a plan sheet then the field should be blank. The “**Status**” field has three choices: index, active, and survey. The field must be set to “**index**” only when the file is going to be a part of the plan assembly, a reference file, or GEOPAK files relevant to the design of the project. Otherwise set the field to “**active**”. The “**survey**” setting is for locking down the survey file when it is being edited. Do not change status field if set to survey.

Directories and Keywords Tab

File Format Keywords |
 General Info. **Keywords** Title Block |

Archive

Route

County/City

Section

Struct/Bridge Plan #

C # or M #, etc.

The “**Archive**” field is required to be used only when you are ready to archive a set of files, otherwise it should be left blank. Instructions about the “**Archive**” field are shown in more detail on page 7. All files with the “**Status**” set to index must have the **Route**, **County/City**, **Section**, and **C# or M# etc** filled in. These should match the project number exactly. **The route number will always be four digits.** The Structure & Bridge # (**SB Plan #**) is used for Bridge Plans only.

Title Block Tab

No data fields required

File Format Keywords Tab

File Format Keywords |
 General Info. Keywords **Title Block** |

Engineer

Designer

District

County

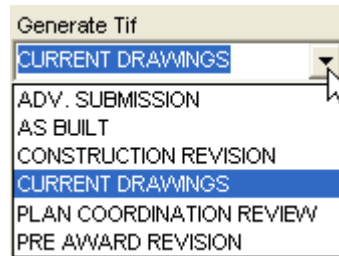
Generate Tif

Unit Measure

Scale Factor

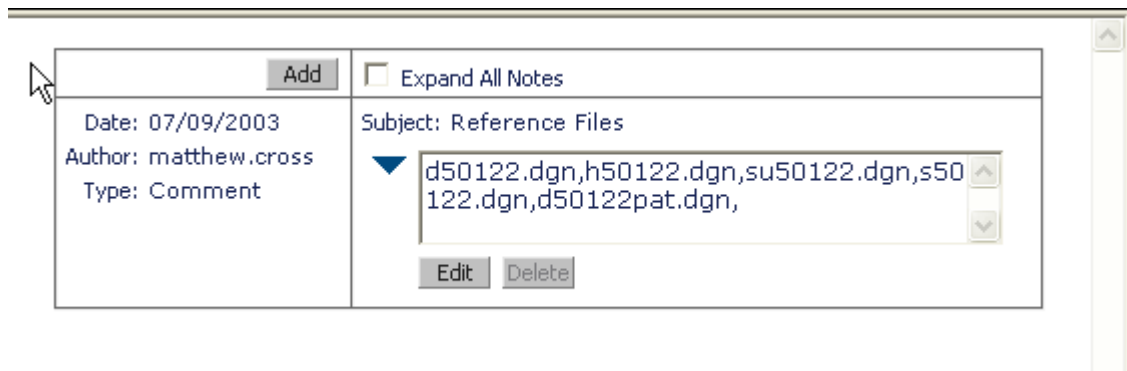
All files with the status set to “Index” must have Engineer, Designer, District, and County filled in. If the Engineer and Designer are the same person, then the

“**Designer**” field is not required and may be left blank. The “**Generate Tif**” field is required when tiff files are created so they are placed in the proper location within the Falcon Web Suite. The next page shows available choices.



Document Notes Tab

The Document Notes tab is used to place a note that will provide information about which files are attached to the sheet file drawings.



Reference file note is **not applicable** for **Bridge Division**. Enter the Subject line as **Reference File**. Only enter the reference files that have the display turned on when the sheet is plotted.

IGrds Files

General Info	Keywords	Title Block
PPMS # 50122		
Division d50122		
SubDirectory 		
Description IGRDS Working Files Route 64		
Sheet # 		
Status Index		
Availability On Server		
Last Modify Date		

All Survey files must have the “**Description**” and “**Status**” fields filled in. The Survey Section will enter information for Survey files. If the “**Status**” field is set to “**survey**” do not change it. If the field is set to “**active**” the designer must change it to “**index**”.

Cross Section Plot Files

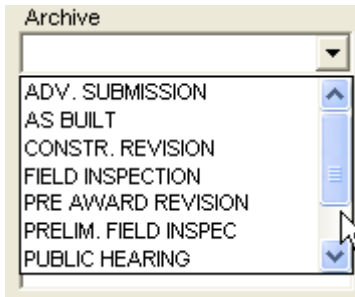


File Format Keywords	General Info.	Keywords	Title Block
	PPMS # 50122		
	Division d50122		
	SubDirectory 		
	Description Cross Section Plot File		
	Sheet # 		
	Status index		
	Availability On Server		
	Last Modify Date 		

All Cross Section Plot files must have the “**Description**” and “**Status**” fields filled in. If you have multiple files, the descriptions should contain road name(s) or route number(s). “**Status**” field should also be set to “**index**”.

Archiving Files

The following instructions are for archiving your files. Archiving your files will give you a complete copy of your project at that particular stage of development. After all of the “**required**” database fields are filled out, you are ready to archive the project when you reach one of the appropriate concurrent engineering stages. The nine stages for archiving are **Preliminary Field Inspection, Field Inspection, Public Hearing, Right of Way Partial, Right of Way Total, Adv. Submission, Construction Revision, Pre Award Revision, and As Built** as shown below. In the “**Directories & Keywords**” tab, set the “**Stage**” to the appropriate concurrent engineering stage for all project files. Only change the stage when you are ready to archive the file, otherwise leave it blank.



Falcon will copy all of the files that have the “**Stage**” field set to an **Archives** environment on a Falcon server. This process will run nightly. When the process has finished the “**Stage**” field will automatically return to a blank status. This will allow different files to be archived at different stages. These files can be accessed for viewing and printing but cannot be changed when in the **Archives** environment.

The following is an example of what types of files should be archived in the respective concurrent engineering stages:

Preliminary Field Inspection – GEOPAK* and DGN files

Public Hearing – GEOPAK* and DGN files

Field Inspection Stage – GEOPAK* and DGN files

Right of Way Partial – GEOPAK* and DGN files

Right of Way Total – GEOPAK* and DGN files

Advertisement Submission – CAiCE, GEOPAK*, DGN, and all related files necessary for the contractor to build the project.

Constr. Revision – All revised files

Pre Award Revision – All revised files

As Built – All Files

*** Note: Please contact CADD Support Helpdesk to Archive any GEOPAK files.**

Falcon Database Information

Purpose

This document provides standard procedures for filling in the Falcon Document Management System's required database fields, applies to both DGN and TIF files unless otherwise noted, and shall be used in all cases.

Scope

The database information that Falcon provides will be extracted and used by other programs in the electronic plan process. The major uses for the Falcon database information are:

- **Producing an Index of Files**
 - Status = index

- **Archiving files at different stage of Concurrent Engineering Project Development**
 - Public Hearing
 - Field Inspection
 - Right of Way Partial
 - Right of Way Total
 - Plan Submission (Advertisement Submission)
 - Pre Award Revision
 - Construction Revision
 - As Built Plans

S&B will always archive files at Plan Submission, Revisions and As Built and may occasionally need to archive files at one of the other stages, depending on the project.

- **Automatic tif file generation for Electronic Plan Submission**
 - Tif file created by designer is automatically renamed and placed into Plan File Room environment

It is very important to follow these instructions and complete the database information as soon as possible so it does not cause any delays to a project's schedule. Falcon settings will force/require all the fields indicated in these instructions to be filled in for creation, checkout and check-in of files. All database information on new projects from receipt of these instructions **must** have the information keyed in as the files are created.

Falcon has been implemented statewide and is used to share files between multiple disciplines. Designers should be as informative as possible when entering descriptions since someone searching for a document may use the descriptions.

The remaining portion of this document provides illustrations and procedures to follow when filling out the **required** database fields. If you need more assistance

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or have questions that were not answered, please call the **COLNDHelpDesk** at **804 786-1280** or send an e-mail to: COLNDHelpDesk@VDOT.Virginia.gov

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- Description – rte. ##### over ABC river, etc
- Project location – District and county
- Project #
- PPMS # (File location in Falcon if different from PPMS#)
- Plan #
- Bridge # - (Federal Structure # is a five digit number)
- Point of contact
- Stage of Project – PAC/PRELIMINARY, PLAN COORDINATION REVIEW, ADVERTISEMENT SUBMISSION, CONSTRUCTION REVISION, or AS-BUILT

All subsequent contact/e-mails need only reference the Plan #.

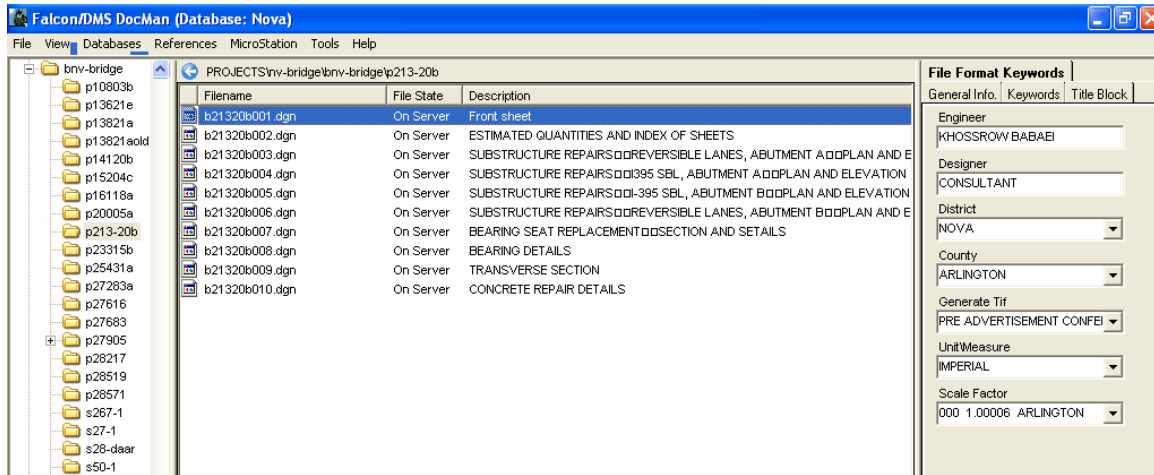
Designer should include (send an e-mail) brief description of the project with the following details BEFORE submitting any TIFF files to the Plan File Room. (1st time only)

Illustrations & Procedures

The following screen captures show the **required** fields as they will appear in Falcon DocManager (ver. 6). There are times when the field may be left blank. Please read the following carefully.

Most of the fields are self-explanatory. However, a few do require examples:

Falcon ver. 6.xx General Screen



File Format Keywords Tab

All files with the status set to “Index” must have Engineer, Designer, District, and County filled in. If the Engineer and Designer are the same person, then the “**Designer**” field is not required and may be left blank.

The “Engineer” field should be filled in with the name of the Supervisor of the section or the Sr. Engineer who is overseeing the design.

The “Generate Tif” field should be filled in when tif files are to be generated. The appropriate project stage should be chosen from the list shown.

File Format Keywords	
General Info.	Keywords
<p>Engineer <input type="text" value="LGH"/></p> <p>Designer <input type="text" value="MMA"/></p> <p>District <input type="text" value="BRISTOL"/></p> <p>County <input type="text" value="RUSSELL"/></p> <p>Generate Tif <input type="text" value="ADV. SUBMISSION"/></p> <p>Unit Measure <input type="text" value="IMPERIAL"/></p> <p>Scale Factor <input type="text" value="083 1.00012 RUSSELL"/></p>	<p>GENERATE TIFF - Several choices – Choose the “stage” that applies to your current submission.</p> <p>SCALE FACTOR – used by Survey</p>

General Info Tab

The “Description” field for S&B plans should be filled in with the title of the sheet (ex. Abutment A). The “Document #” should ALWAYS be filled in with the FINAL sheet number that applies to the plan unless the sheet is a worksheet that will not be included in the plans, in which case it should be left blank. This may require that the number be modified prior to indexing or archiving.

The “**Status**” field has several choices. The field must be set to “**index**” only when the file is going to be a part of the plan assembly. Otherwise set the field to “**active**”. The “**survey**” setting is for locking down the survey file when it is being edited. Do not change status field if set to survey.

File Format Keywords	
General Info.	Keywords Title Block
PPMS # nv-bridge	
Division bnv-bridge	
SubDirectory p213-20b	
Description Front sheet	
Sheet # 001	
Status index	
Δ availability	
<p>SHEET # - Use "leading" zeroes to allow all plan sets to be uniformly numbered and sequentially displayed.</p> <p>(Also to be used to indicate a Revision or AsBuilt)</p> <ul style="list-style-type: none"> • If sheet one is "at 2nd revision", this would be 001r2. • If sheet one is "at Asbuilt", the field would be 001rab. <p>STATUS – All sheets to be included in the plan set should be set to INDEX. (Scratch sheets, etc. should NOT be set to INDEX.)</p>	

Title Block Tab

The Title Block provides six additional fields that can be used for indexing.

File Format Keywords	
General Info.	Keywords Title Block
Road Project# 0095-96A-104	
Bridge # 14264	
FHWA Scour Code X071-S5	
Checker(s) Initials HNTB	
Record Series # 501-005-1016	
<p>Federal Structure # - (a five digit identifier)</p>	
<p>RECORD SERIES #</p> <p>Bridge plans 501-016-1016 http://bioapp13/RecordsRetention/Pages/SearchSeries.aspx</p> <p>District SAAP & RAAP 501-003-1060 http://bioapp13/RecordsRetention/Pages/SearchSeries.aspx</p>	

Keywords Tab

The “**Archive**” field is required to be used only when you are ready to archive a set of files, otherwise it should be left blank. Instructions about the “**Archive**” field are shown in more detail below. All files with the “**Status**” set to index must have the **Route**, **County/City**, **Section**, **SB Plan #**, and **C# or M# etc** filled in.

<div style="border: 1px solid black; padding: 5px;"> <p>File Format Keywords </p> <p>General Info. Keywords Title Block </p> <p>Archive <input type="text" value="PRE AWARD REVISION"/></p> <p>Route <input type="text" value="0395"/></p> <p>County/City <input type="text" value="000"/></p> <p>Section <input type="text" value="194, 196"/></p> <p>Struct/Bridge Plan # <input type="text" value="213-20B"/></p> <p>C # or M #, etc. <input type="text" value="C501"/></p> </div>	<p>ARCHIVE – To be used by S&B for projects at the following stages:</p> <ul style="list-style-type: none"> • Advertisement Submission (old “Final”) • Pre Award Revision • Construction Revision • As-Built
	<p>ROUTE # should be four digits (e.g. Interstate 395 would be 0395)</p>

Archiving Files

The following instructions are for archiving your files. Archiving your files will give you a complete copy of your project at that particular stage of development. After all of the “**required**” database fields are filled out, you are ready to archive the project when you reach one of the appropriate concurrent engineering stages. In the “**Directories & Keywords**” tab, set the “**Archive**” to the appropriate concurrent engineering stage for all project files. Only change the Archive when you are ready to archive the file, otherwise leave it blank.

Falcon will copy all of the files that have the “**Archive**” field set to an **Archives** environment on a Falcon server. This process will run nightly. When the process has finished, the “Archive” field will automatically return to a blank status. This will allow different files to be archived at different stages. These files can be accessed for viewing and printing but cannot be changed when in the **Archives** environment.

The following is an example of what types of files shall be archived in the respective concurrent engineering stages:

Public Hearing – DGN files

Field Inspection Stage – DGN files

Right of Way Partial – DGN files

Right of Way Total – DGN files

Plan Submission – DGN, and all related files necessary for the contractor to build the project.

Pre Award Revision – All revised files

Construction Revision – All revised files

As Built Plans – All plan DGN files for the project

S&B will always archive files at **Plan Submission/Advertisement Submission** (“old” Final submission), **Revisions (Pre-Award or Construction)** and **As Built**s and may occasionally need to archive files at one of the other stages, depending on the project. Please note that only DGN files are archived by Structure and Bridge, not TIFF files from the Plan File Room.

Accessing Archived Files

Databases should be set to **Central**.

Environments should be set to **archives**.

After setting the environment to **Archives**, choose “**PPMS#**”, then “**Stage**”, then “**Division**”. Stage may be any of the plan stages noted in the Archive choices described previously.

The files that have been archived for that stage will be available as shown above. These files are read only and cannot be edited. Use the **View** button to access these files for reviewing and plotting.

Example Index of Files

An Index of S&B plans would show the information entered on the General Information Tab. The Reference File column will be blank unless the designer has inserted notes.

This is an example of a S&B index.

Filename	Drawing Number	Description
b2816201a.dgn	01A	0724-035-171,B623 - Front Sheet
b2816202a.dgn	02A	0724-035-171,B623 - Substructure Layout
b2816203.dgn	3	0724-035-171,B623 - Transverse Section & Deck Details
b2816204.dgn	4	0724-035-171,B623 - Superstructure (spans a, b, & c)
b2816205.dgn	5	0724-035-171,B623 - Superstructure (spans d & e)
b2816206.dgn	6	0724-035-171,B623 - Railing & Bearing Details
b2816207.dgn	7	0724-035-171,B623 - Pier 1 Modifications
b2816208.dgn	8	0724-035-171,B623 - Pier 2
b2816209.dgn	9	0724-035-171,B623 - Pier 3 Modifications
b2816210.dgn	10	0724-035-171,B623 - Pier 4 Modifications
b2816211.dgn	11	0724-035-171,B623 - Abutment A
b2816212.dgn	12	0724-035-171,B623 - Abutment B Modifications
b2816213.dgn	13	0724-035-171,B623 - Reinforcing Steel Schedule
b2816214.dgn	14	0724-035-171,B623 - Reinforcing Steel Schedule
b2816215.dgn	15	0724-035-171,B623 - Geology
b2816216.dgn	16	0724-035-171,B623 - Silt Fence Details

Mass Update Tool in Windows Document Manager

The **Mass Update** tool can be used to change database information on multiple files. Hi-Light the files in the Files Selected window and go to **Tools > Mass Update Tools > Mass Update**. This only changes the database fields that you enter data into. All other fields remain as they are. Once all the data is entered, select **Process**.

Refer to the **Instructions for Mass Update in Falcon** for more information.