

I Introduction

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I.1 Introduction

GEOPAK is a comprehensive software package that covers every project phase from conceptualization to final quantities. The software works within the MicroStation graphic environment providing true *interactive design*. For example, a horizontal alignment can be created graphically, it can be calculated with the coordinate geometry component of GEOPAK or some interactive combination of the two. Dynamic on-screen design provides immediate interpretation of plan view geometrics for making design choices through visualization.

Using GEOPAK will help ensure consistency and accuracy of design work and generate significant timesaving in the overall effort of producing construction plans.

For GEOPAK support, please contact the CADD Support Center.

I.2 File Names

GEOPAK uses and/or creates files during the design process. The files you need to be familiar with are listed below:

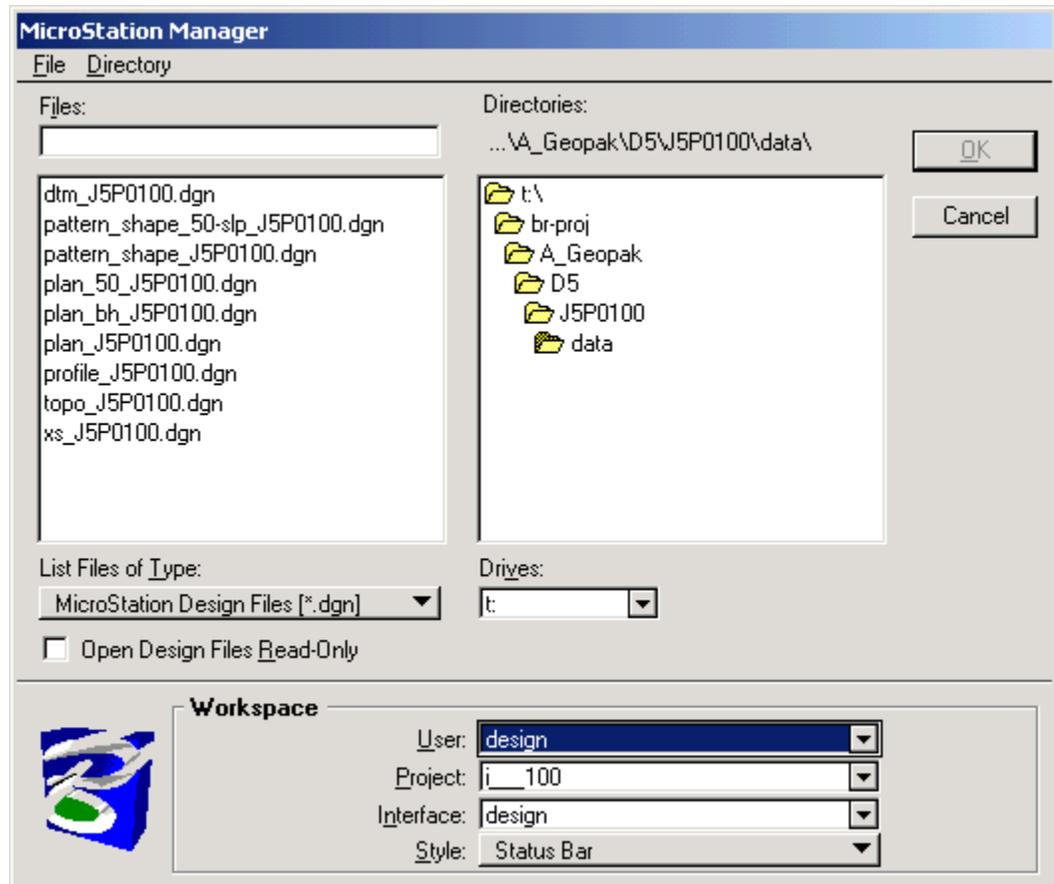
job###.gpk	This binary file is created when the user starts a coordinate geometry (COGO) session for the first time or through Project Manager and may be appended to during the design process. All coordinate geometry elements are stored in this file. Multiple users can access this file at the same time, and only one file should be created for each project. The "###" is the only variable in this name. It represents a job number (up to 3 alphanumeric characters) unique to a project and is defined by the user upon creation. MoDOT users should use the last 3 digits of the job number. Example J1P0999 -> job999.gpk
fname.inp	Any ASCII input file for running GEOPAK processes. Name is user defined with a .inp extension. Example: shape.inp
fname.log	ASCII file used to capture results from processing input files, proposed cross sections, and earthwork.
fname####.ioc	ASCII input file for loading data during a COGO session. "####" represents the job number and "oc" is the operator code (users initials). Example: align999.iho
fname####.ooc	ASCII output file created by GEOPAK during a COGO session. Variables are the same as defined above. Example: align999.oho
fname.dat	A binary file that contains string and point information to be used for digital terrain model construction.

fname.tin A binary file containing triangular surfaces also known as the digital terrain model (DTM)

project.prj Binary file resulting from the creation of a new project.

I.3 Accessing GEOPAK Road

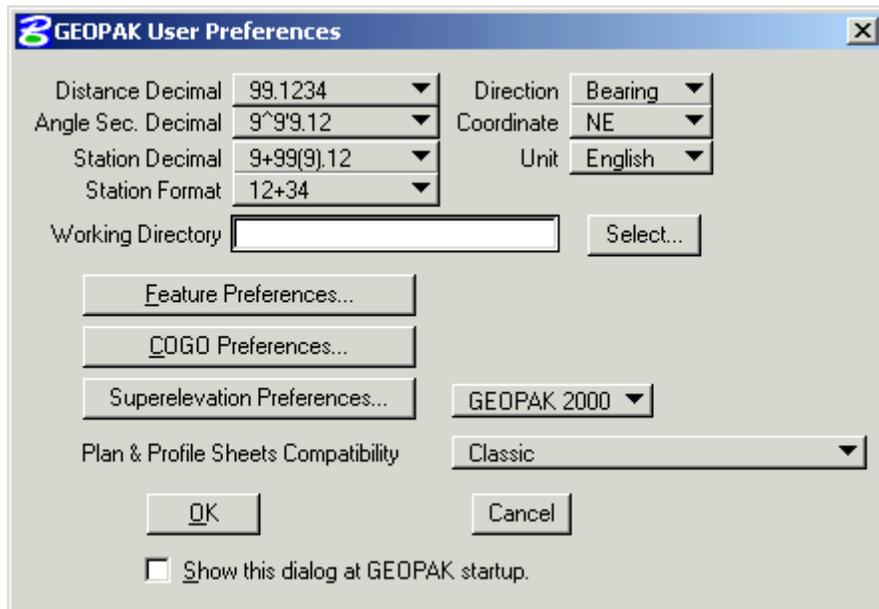
GEOPAK is started upon entering a MicroStation File with **User:** set to **design**, as shown in the dialog to the right. To verify that GEOPAK is active, scan the MicroStation menu bar where the Applications menu appears. Simply pull down **Applications > GEOPAK Road**. When each



GEOPAK tool is selected, the corresponding dialog will appear. To utilize the full potential of GEOPAK, usage of the GEOPAK dialogs may be interspersed with generic MicroStation commands. In addition, several dialogs may be opened simultaneously.

To close a dialog, simply click the X in the upper right corner of the dialog. In addition, the Coordinate Geometry dialog and Design and Computation Manager may be closed by selecting the **File > Exit** option. Other various dialogs will have a **Cancel** button, which will exit the dialog. Exiting the MicroStation file automatically closes all GEOPAK dialogs.

I.4 User Preferences



The **User Preferences** dialog is used to set items that determine how distances, directions, and stationing is displayed and calculated, as well as the units that are used. The **User Preferences** dialog can be accessed from **Applications>>Geopak Road>>User Preferences**. The following dialog appears.

Most of the settings in this dialog will be set when the project is setup.

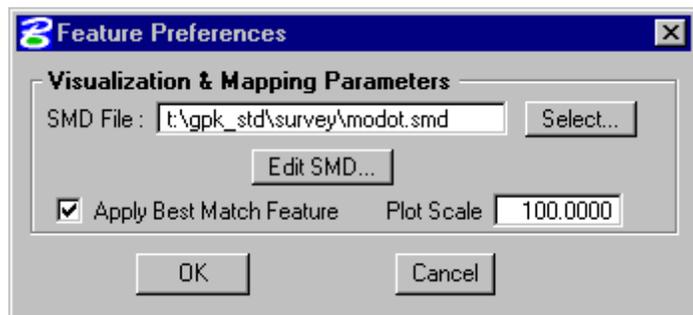
The **Working Directory** is used to tell Geopak where the data files for a particular project can be found. If a user does not want to work within a specific project, they can delete the information out of this field, and Geopak will use the directory that the open MicroStation file is located in.

I.4.1 Feature Preferences

The **Feature Preferences** button will activate the following dialog.

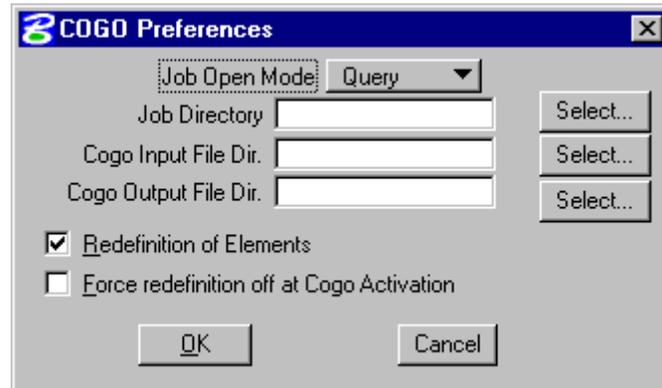
The **SMD File** is used to control the symbology of survey elements. Users will not be able to edit the **SMD File**, however, the **Edit SMD...** button can be used to view the feature codes. The

Apply Best Match Feature toggle should be checked to allow for proper import of survey data. The scale of the features can be controlled using the **Plot Scale**. This should be set to the scale of the plan sheets to be created.



I.4.2 COGO Preferences

The **COGO Preferences** button will activate the following dialog.



The **Job Directory** can be set to indicate the location of the coordinate geometry database (.gpk). If this field is not set, GEOPAK will look for the coordinate geometry database (.gpk) in the **Working Directory**. The **COGO Input File Dir.** and **COGO Output File Dir.** can be set to indicate the location of the COGO input and output files respectively. If these fields are not set, GEOPAK will look in the **Job Directory**.

The **Redefinition of Elements** toggles on or off the COGO redefine option. This option is discussed further in Chapter 5. The **Force redefinition off at Cogo Activation** will turn the COGO redefine toggle off whenever GEOPAK's coordinate geometry tools are activated.

I.4.3 Superelevation Preferences

There are two options for using GEOPAK Superelevation, **GEOPAK 2000** and **Classic**. **GEOPAK 2000** will use the tools made available in GEOPAK 2000 and later versions. The **Classic** option will bring up the tools available prior to GEOPAK 2000.

****Note:** The **Classic** option will not be supported within MoDOT. Only the **GEOPAK 2000** option will be supported.

The **Superelevation Preferences** have been set by CADD Support and do not need to be modified by the user.

I.4.4 Plan & Profile Sheets Compatibility

Three options are available for creating Plan & Profile Sheets, **Classic**, **GEOPAK 2001+**, and **GEOPAK 2001+ with Raster Manager**. At the present time only the Classic Plan & Profile Sheets tool is configured to MoDOT standards. Consequently the user should choose **Classic**.

Chapter 1

Start Job

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1.1 Objectives

- Be able to start a new Geopak job with the **Start Job** dialog.

1.2 Definition

Start Job is a tool that will set up a Geopak job for a user, or add users to an existing job. **Start Job** will create the job directories, copy default MicroStation files to the directories, and set the global origin in the MicroStation files. **Start Job** will also append the job number to the end of the copied MicroStation files. Once a job has been created, **Start Job** will add a user to the job. **Start Job** is only available in the design user interface in MicroStation.

1.3 Accessing

Start Job can be accessed from the MicroStation menu **MoDOT>>Start Geopak Job/Add User**.

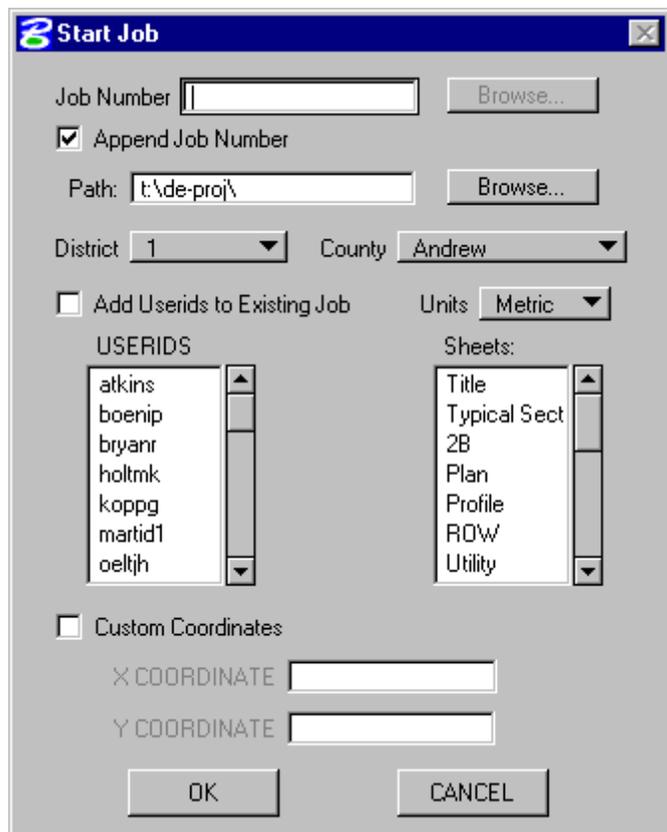
1.4 Start Job Dialog

Once the user has accessed the **Start Job** dialog box, shown right, they will need to fill in or choose the **Job Number** and the **Path** in which to place the job directory. Once the job number and path have been chosen, the **District** and **County** can be chosen.

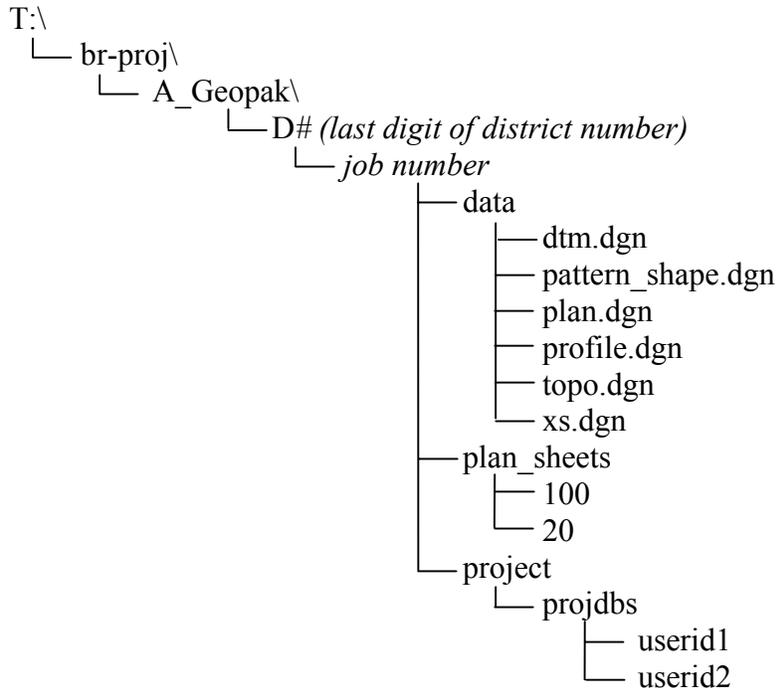
If the user is creating a new job, do not check the **Add Users to Existing Job** toggle, just choose the userids of the people that will be working on the job. If a job already exists, and the users are being added to the job, check the **Add Users to Existing Job** toggle.

For a new job, select the **Units** and the **Sheet** types that will be used for the job. This will create a directory for each **Sheet** type selected to place the sheets into as they are created.

If the job is not based on the modified state plane or the state plane coordinate systems, **Custom Coordinates** must be set to shift the global origin. If the modified state plane or state plane coordinate systems were used for the project, the **County** selected will determine the global origin shift.



Once all fields have been filled in, select the **OK** button. The job directories will be set up as shown below.



The **data** directory contains any project data. This is the directory that contains the MicroStation drawings, the Geopak coordinate geometry database (.GPK), and any input or output files. The **plan_sheets** directories contain the detail sheets drawn at specific scales for the project. The **project** directory contains the Geopak project manager file (.PRJ), and the userid directories. The **userid** directories contain the user runs for the job.

Chapter 2

Project Manager

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2.1 Objectives

- Learn how to set up a project using **Project Manager**.
- Learn how to utilize **Project Manager** as a workflow guide.
- Learn how to access GEOPAK dialogs from the **Project Manager**.

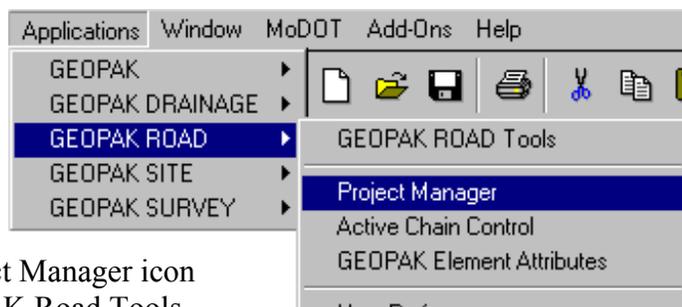
2.2 Definitions

Project Manager is a GEOPAK tool that associates a project with its respective **gpk** job number, users, working directories and project files. Project Manager provides the user with an easy workflow system that keeps records of processes run throughout the design of a project.

2.3 Accessing

To access Project Manager:

- Select **Applications >> GEOPAK Road >> Project Manager** (as shown in the figure to the right) or



- Select the Project Manager icon from the GEOPAK Road Tools (both are shown to the left), which are opened by selecting **Applications >> GEOPAK Road >> GEOPAK Road Tools**.

The following dialog depicted to the right appears:

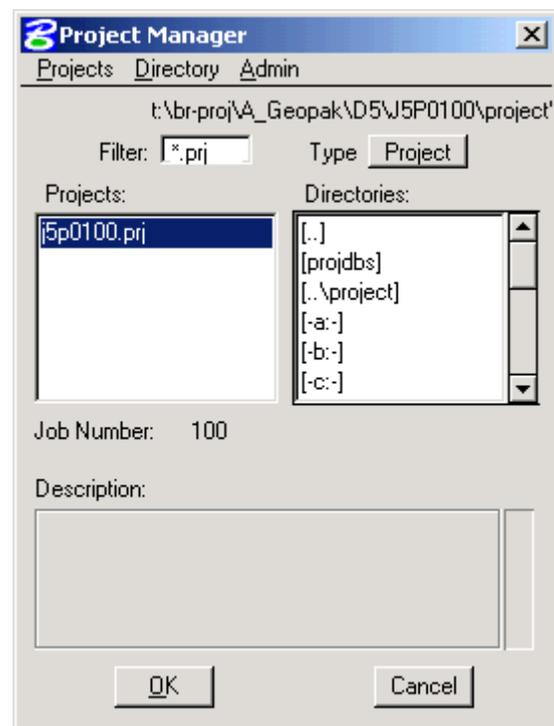
2.4 Project Manager Dialog

2.4.1 General Description

The current directory is displayed at the top of the dialog box, which can be changed by navigating to a different directory in the **Directories** list box.

This navigation is the first step in selecting an existing project or creating a new one. Project files (.prj) are displayed in the **Projects** list box. The project files should be located in the `t:\br-proj\A_Geopak\district\jobnumber\project` directory.

The remainder of the Project Manager dialog box displays information after a project has been

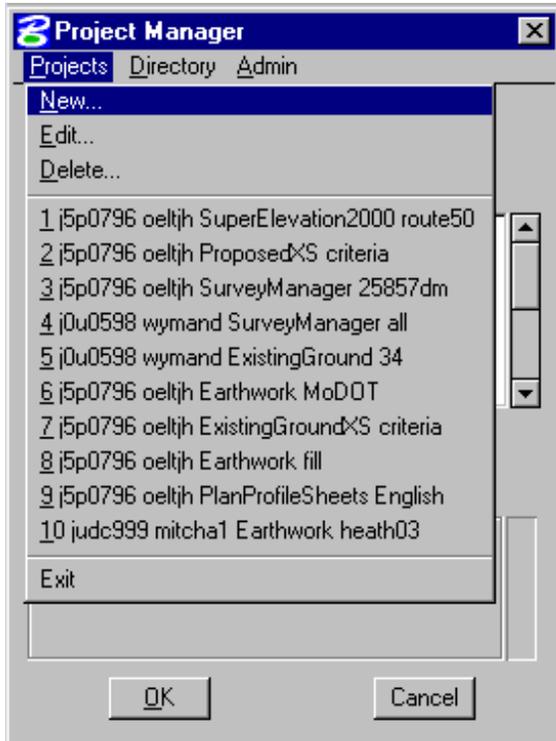


selected from the **Projects** list box. At the bottom of the dialog are the **OK** and **Cancel** buttons. If the user wishes to exit Project Manager, the **Cancel** button should be selected. To continue in the Project Manager process, the **OK** button should be selected.

2.4.2 Project Manager Menu Bar

There is three pull down choices on the Menu Bar: **Projects**, **Directory**, and **Admin**. Each of these choices has options contained in the pull down.

2.4.2.1 Project Tools



There is four choices under the **Projects** pull down: **New**, **Edit**, **Delete**, and **Exit** as shown below.

As can be seen from this dialog box, the Windows motif also keeps track of the last few processes that have been executed. These may be recalled as needed by selecting the desired process.

2.4.2.1.1 New...

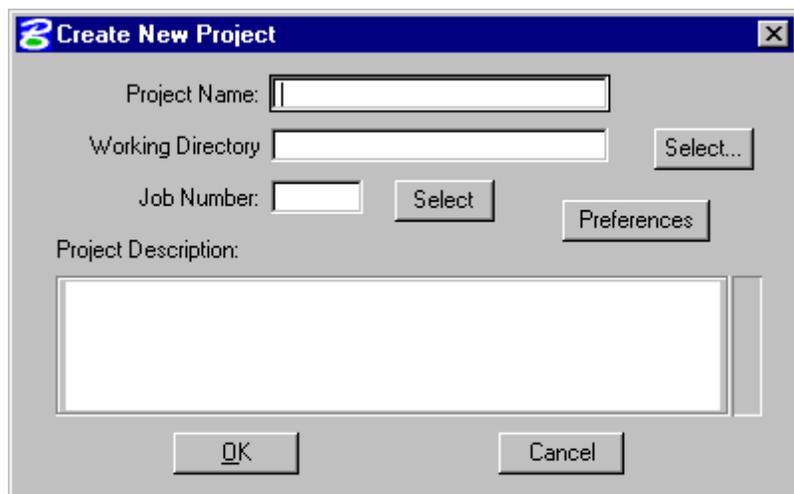
The **New** menu option is used to create a new project. The .prj file will be stored in the directory shown in the Directory path at the top of the Project Manager dialog box. When the **New** menu option is selected, the **Create New Project** dialog appears (shown at the bottom of the page).

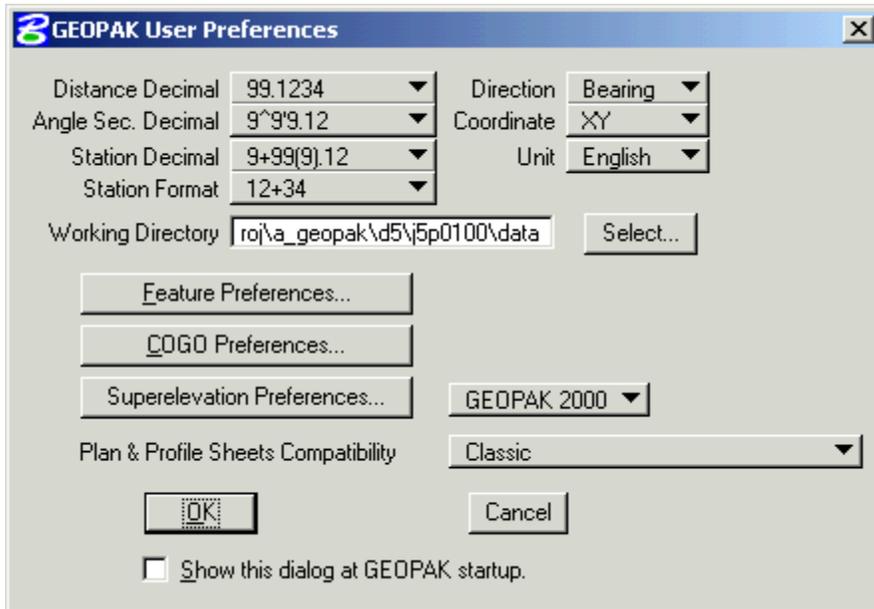
The **Project Name** can be any number of alphanumeric characters. For MoDOT projects, the **Project Name** needs to be the same as the job

number. (i.e. j1p0999.prj) The **Working Directory** specifies the location of the project data files. The **Working Directory** may be keyed in or the **Select** button may be chosen and the appropriate directory selected. For MoDOT Bridge, the **Working Directory** should be set to `t:\br-proj\A_Geopak\district\jobnumber\data`.

The next field is for typing in the COGO job number, or the **Select** button may be chosen and the appropriate COGO job number selected.

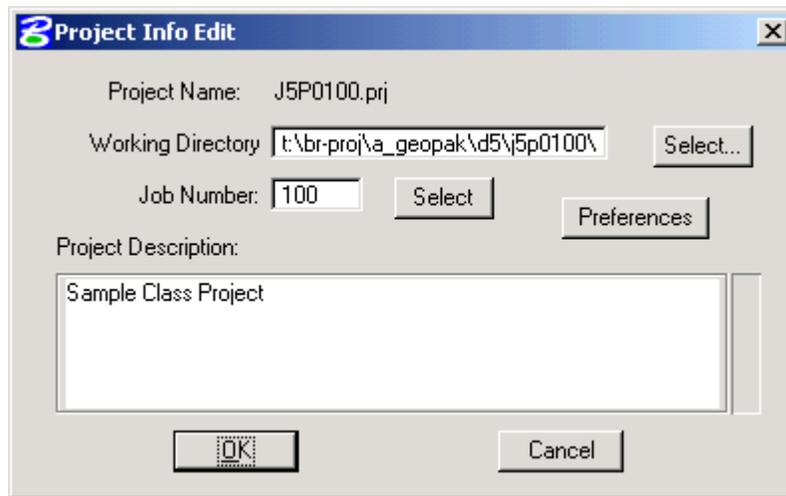
Next the **Preferences** button should be chosen and the **Project Preferences** dialog appears, which is depicted on the following page.





The user may set the particular parameters for each project as well as the **Working Directory**. This keeps the user from re-setting them when changing projects since the project's preferences are recalled when entering the project. After all of the information is entered, select **OK** to accept the changes, or **Cancel** to reject them. For more about **User Preferences**, see **Section I.3** in the Introduction.

Shown below is a sample project that includes a project description, which may be keyed in at the bottom of the **Create New Project** dialog box, with the **Working Directory** set to t:\br-proj\la_geopak\d5\j5p0100\data.



2.4.2.1.2 Edit...

The **Edit** menu option is used to change any settings associated with the currently selected project. When chosen, the **Project Info Edit** dialog box appears.

2.4.2.1.3 Delete...

The **Delete** menu option is used to delete any project that has been stored. The user highlights the project in the **Projects** and selects **Delete**.

2.4.2.1.4 Exit

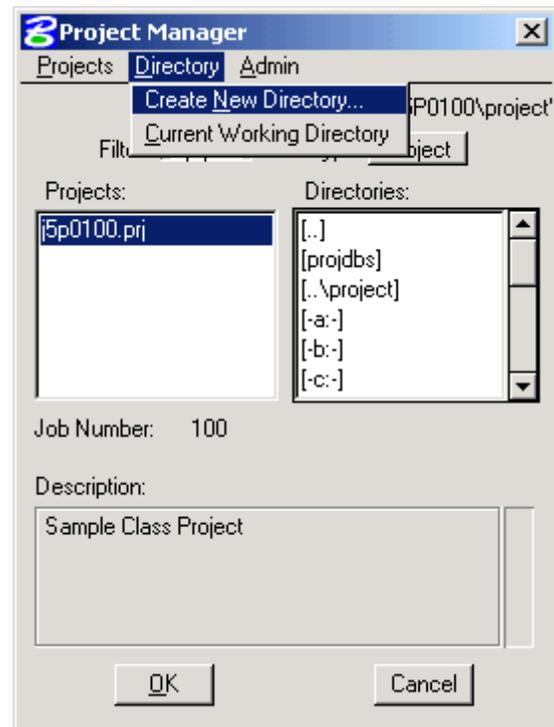
The **Exit** menu option closes the Project Manager and writes the settings to a resource file.

2.4.2.2 Directory Tools

There are two options under the **Directory** pull down, **Create New Directory** and **Current Working Directory** as shown.

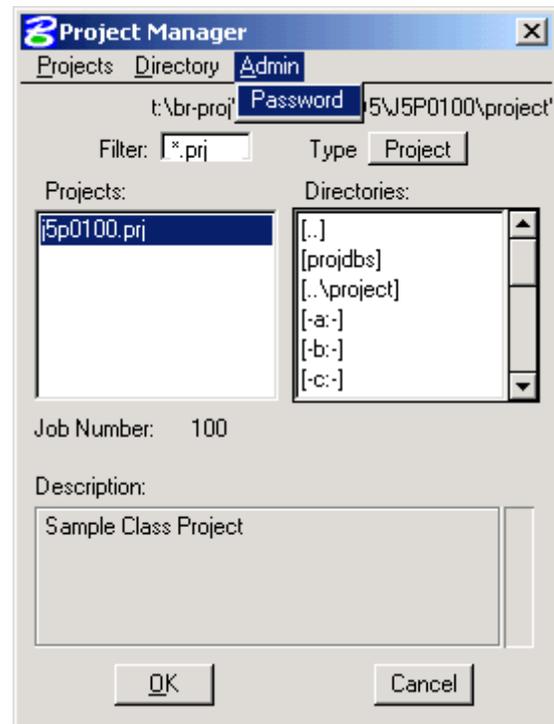
The **Create New Directory** option will create a new directory on the disk.

If the **Current Working Directory** option is chosen, the directory path in Project Manager is changed to that directory.



2.4.2.3 Administration Tools

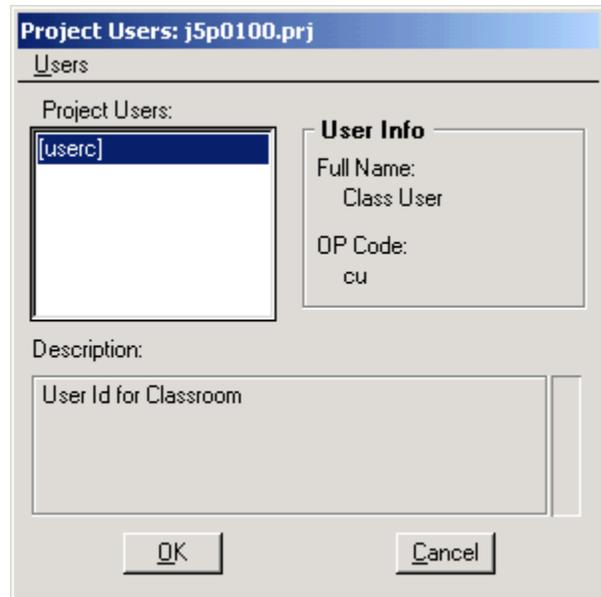
The **Administration** menu option is used to set a password on a project. It is recommended that a password **not be used** since the project will need to be accessed by more than one user.



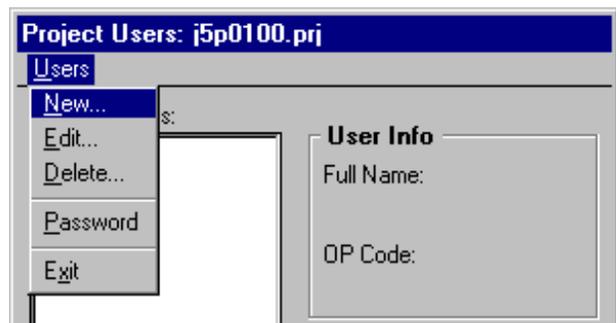
2.5 Project Users Dialog

Once a project is highlighted and **OK** is selected, the **Project Users** dialog appears.

This dialog has three sections: **Project Users**, **User Info**, and **Description**. The **Project Users** list displays a list of users that have been created to work with any project that resides in the current projects home directory. The names shown in **Project Users** will be the userid's of the people working on that project as specified in the **Start Job** dialog. Within the **User Info** group box, the **Full Name** field further identifies the user, and displays the full name of the user that is currently selected. The **OP Code** field displays the GEOPAK Operator Code of the currently selected user. The GEOPAK Operator Code is used for all coordinate geometry operations during this session. The Operator Code, along with the Job Number, will be utilized whenever an input or output file is created by the software. The Operator Code will be the user's first and last initials. The **Description** field displays the description of the currently selected user.

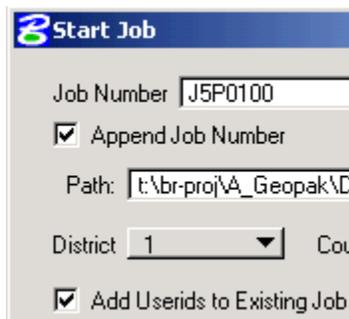


Four tools are supported on the Project Users pull down as depicted in the exploded view to the right.



2.5.1 New

The New pull down menu option creates new users. **This option is not to be used in MoDOT.** To create a new user for a project, use **Start Job/Add User** under the MoDOT menu with **Add Userids to Existing Job** activated, as show in the following figure. Start Job/Add User must be used for the user to have the default MoDOT runs.



2.5.2 Edit

The **Edit** pull down menu option allows the user to change any of the parameters of the currently selected user. (Note: The User cannot be changed. This will change the user information for the current project only.)

2.5.3 Password

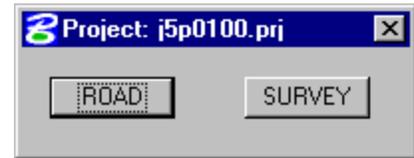
The **Password** tool creates or modifies a password for the selected user. If the selected user already has a password, the user will be prompted to enter the current password before continuing.

2.5.4 Exit

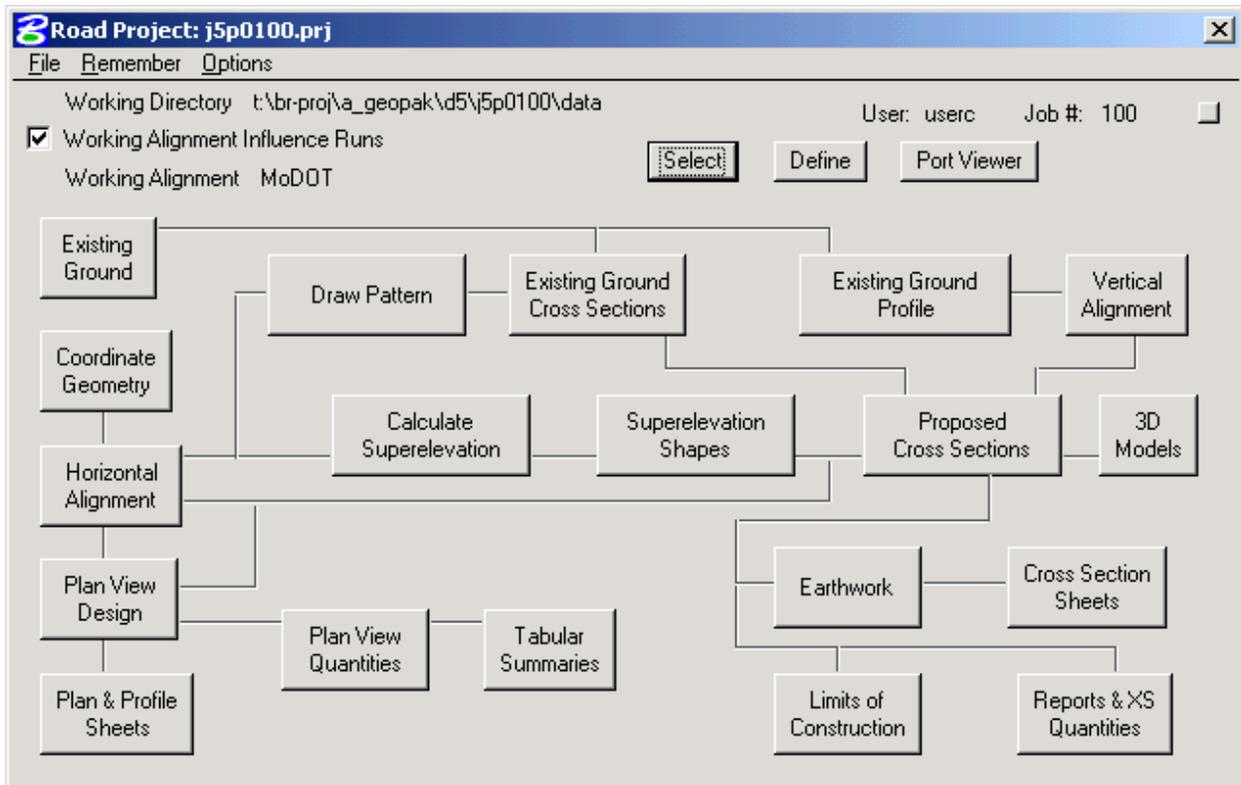
The **Exit** option closes the User dialog and returns back to the Project Manager dialog.

2.6 Road Project Dialog

After a minimum of one user has been defined, selecting the **OK** button on the lower left corner of the Project Users dialog or double clicking on a Project User will open the Applications dialog as depicted.

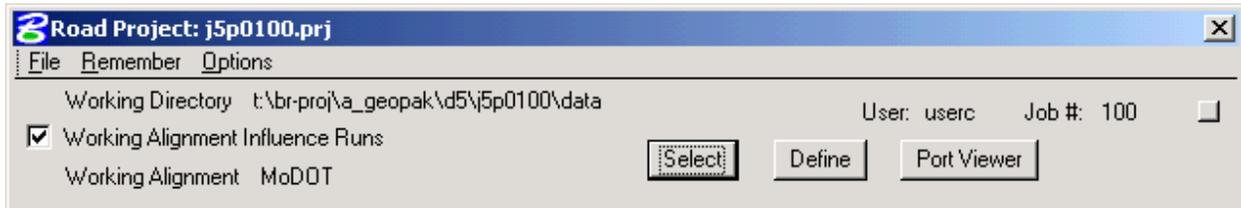


When the Road option is selected, the following dialog appears.



2.6.1 General Description

The top of the dialog displays the **Working Directory**, **Working Alignment** (if defined), **User** and **GEOPAK Job Number**. In addition, a toggle for **Working Alignment Influence Runs** is also supported. The bottom portion of the dialog box displays the various processes supported during the design process. The small square in the upper right corner (to the right of the Job Number) will condense the dialog as depicted in the graphic below.



2.6.2 Road Project Dialog Menu Bar

There are three pull down menu bar options: **File**, **Remember**, and **Options**. When the **File** option is selected, the choices are **Close** and **Exit**.



If the **Close** option is selected, the user is returned to the **Applications** dialog. If **Exit** is selected, the user is exited from Project Manager.

When the **Remember** option is selected, the user can instruct the software to remember the **Project**, **User**, or **Road** in subsequent sessions. For example, if all three toggles are activated, and the Project Manager is completely closed, the invocation of the Project Manager immediately invokes the Road Project dialog (flow chart) and utilizes the project name, username, etc., which were active when the **Remember** toggles were selected. If only the **Project** and **User** toggles are activated, the user is returned to the Applications dialog in later sessions. If only the **Project** toggle is activated, the user is returned to the Project Users dialog in subsequent sessions. This option is particularly useful when numerous users are working on one project.



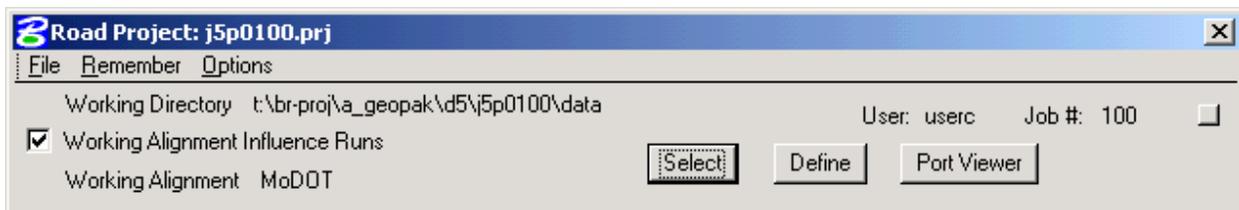
The **Options** menu allows the user to toggle on the **Autosink** option. When toggled on, this option will sink (move behind the open drawing views) the Road Project Manager dialog when a tool is chosen from the Project Manager. When a tool is closed, the Road Project Manager dialog will become the active dialog.



2.6.3 Working Alignment

The concept of a working alignment enables the designer to organize a project and to access project information without continually typing the required information. On a simple project, only one working alignment may be needed. However, on a more complicated project, an unlimited number of working alignments may be defined. The designer can easily change from one working alignment to another by highlighting the desired alignment listed in the **Select** dialog. Three tools relating to working alignments are located at the top of the Road Project dialog:

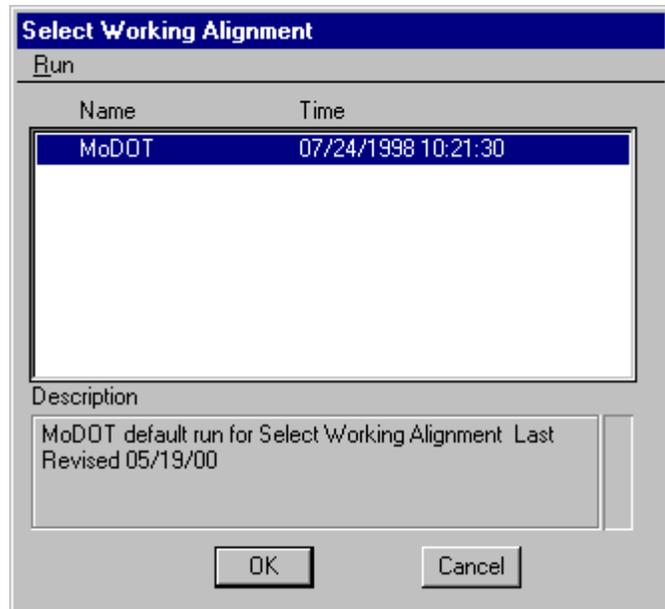
- **Select Button**
- **Define Button**
- **Working Alignment Influence Runs** (toggle on left side of dialog)



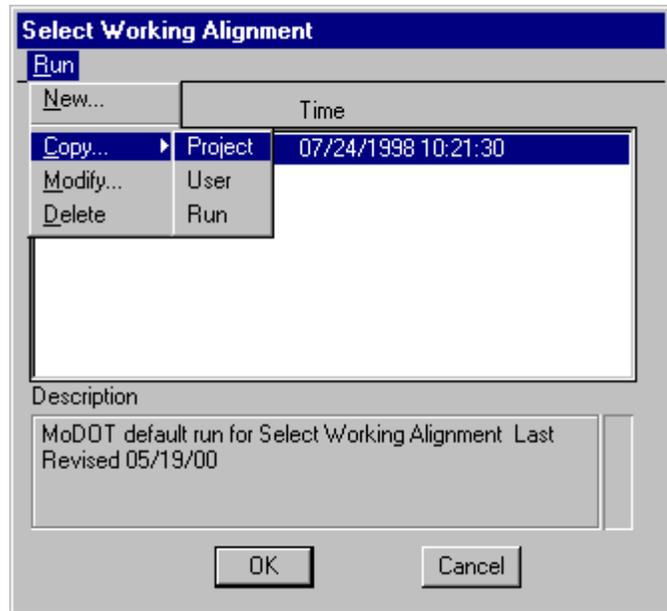
2.6.4 Select Option

When the **Select** button is pressed, the **Select Working Alignment** dialog appears as depicted to the right. If no working alignments have been defined, MoDOT appears in the Run List box. If working alignments have been defined, they are listed with the last run time. The description of the working alignment can be seen in the bottom of the dialog when each Name is highlighted.

To select a previously defined working alignment, highlight the run from the list then press the **OK** button at the bottom of the dialog. Double clicking on the Name also selects a previous working alignment for subsequent processing. Pressing the **Cancel** button will close the **Select Working Alignment** dialog without any working alignment change. Several file options are supported as depicted in the exploded view below. These include **New**, **Copy**, **Rename**, and **Delete**.

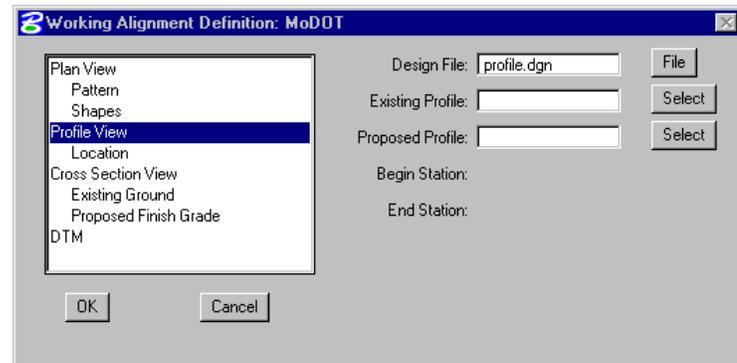
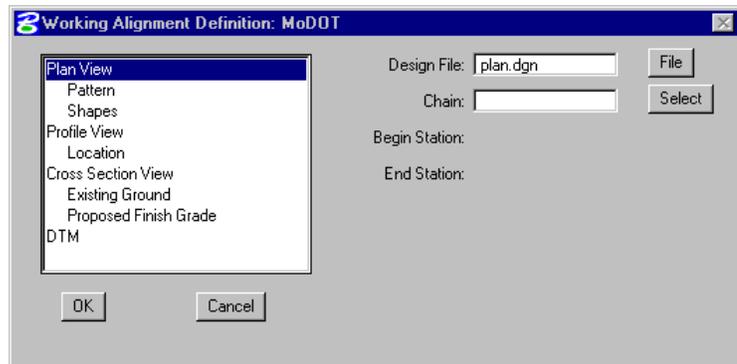


- **File>>New** – allows the user to create a new working alignment. (Do not use this option as it will not copy the default MoDOT settings for the working alignment. Instead, use Run>>Copy>>Run to copy the MoDOT run.)
- **File>>Copy** – allows the user to copy an existing Project, User or Run.
- **File>>Rename** – allows the user to change the name of the existing working alignment.
- **File>>Delete** – allows the user to delete an existing working alignment.



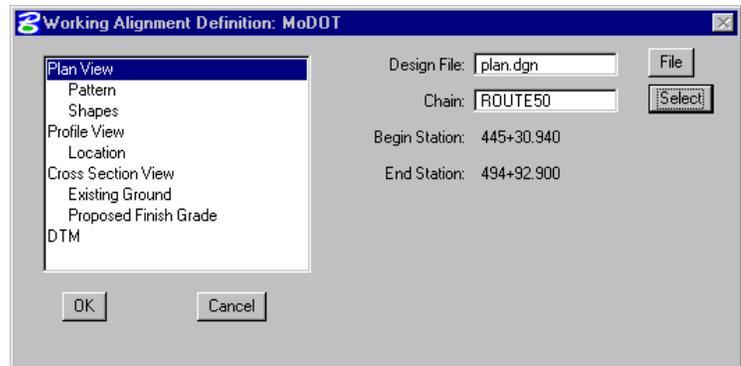
2.6.5 Define Option

Once a Working Alignment has been selected, pressing the **Define** button invokes the dialog depicted to the right. The information that can be associated with a working alignment is listed in the left portion of the dialog box. As each option is chosen, the right side of the dialog box will change to reflect the information needed as can be seen in the dialog box to the right after Profile View was selected.



All information entered in these fields can be used in subsequent processes run from Project Manager. In the beginning of a project, much of this information will not be known but, as the user goes through the design process, it can be added to the working alignment definitions.

For example, as soon as the chain has been stored in COGO, the user can enter that information in the Plan View fields as depicted to the right. For a more complete explanation of each option shown, please see the *GEOPAK Manual*.



2.6.6 Port Viewer

The **Port Viewer** is a tool that enables the user to view all three major aspects of a road design simultaneously even though they are located in different files. The three views include:

- **Plan**
- **Profile**
- **Cross Section**

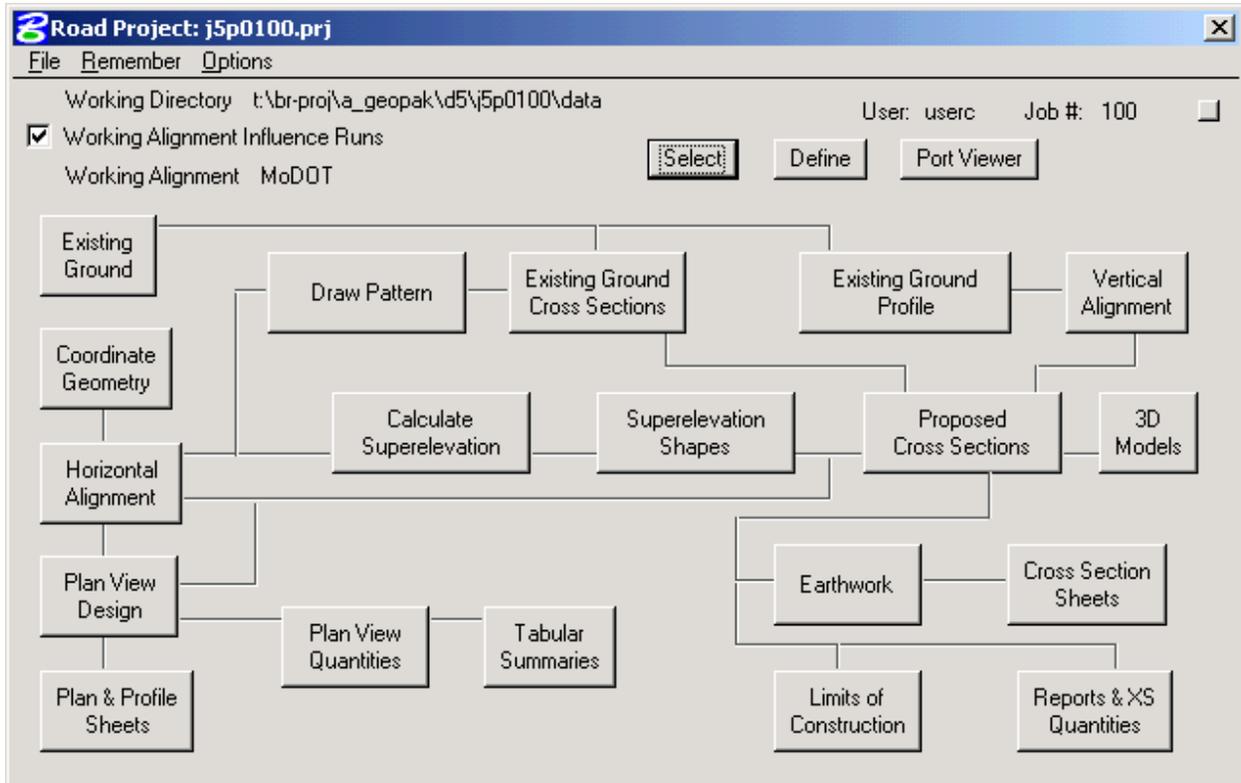
As a prerequisite to invoking the **Port Viewer**, a working alignment must be defined with the following information.

- **Alignment Specification**
- **Plan View Design File and Chain**
- **Profile Information**
- **Cross Section File**
- **Digital Terrain Models**

The **Port Viewer** will be covered in more detail in Chapter 16 in the GEOPAK Road 2 part of the manual.

2.7 Project Manager Process

The primary **Project Manager** dialog is depicted below. The advantage of utilizing the **Project Manager** rather than selecting functions directly from the **Road** menu is that pertinent information stored within the **Project Manager** is automatically displayed within the invoked dialog. Therefore, job numbers, chain names, stationing, file names, and data associated with the project do not have to be typed in each time a dialog is utilized. However, the user can change information in the fields.



Many of the **Project Manager** processes function identically to their corresponding dialog's invocation from the Road menu. However, some of the procedures will invoke the **Select Run** dialog prior to invoking the actual dialog. The **Select Run** dialog allows the user to set up different options to use in alternative design choices.

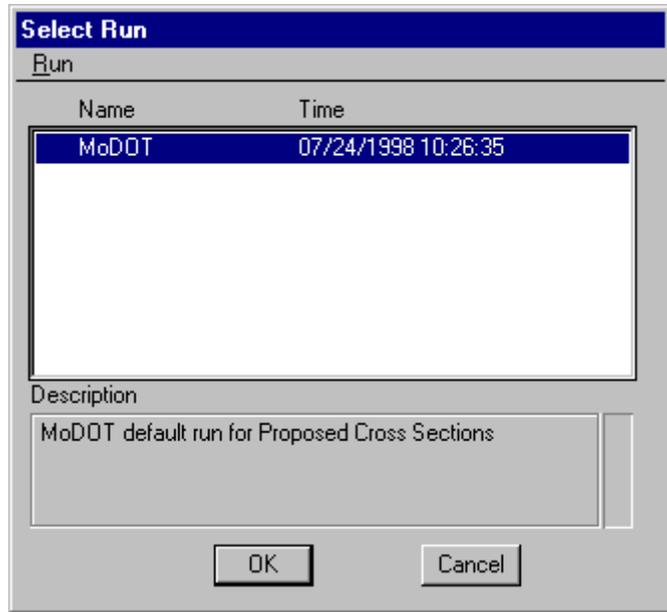
Each of the Road Project dialog processes will be covered individually in the separate remaining chapters.

2.7.1 Select Run Option

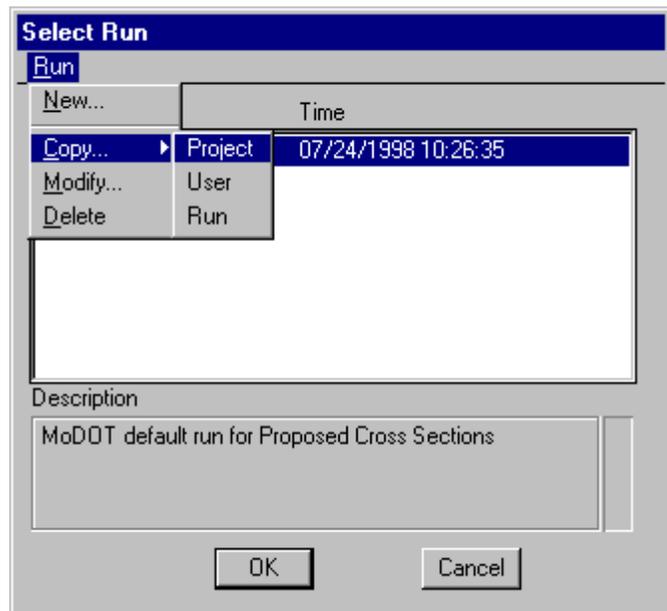
When certain procedures are selected from the **Project Manager** dialog, the **Select Run** dialog will be invoked. The **Select Run** dialog allows the user to save the settings for each procedure in a **Run** that can then be recalled whenever the user needs to execute that procedure. With the individual runs, a user can keep a history of the project, and can access the various procedures

with the settings that were previously used. This way a user can repeat various procedures with the same settings previously used.

When the **Select Run** dialog is invoked, MoDOT appears in the Run List box. (Some Select Run boxes will display default run names such as English, Metric, I_XS_10, etc.) If **Runs** have been defined, they are listed with the last run time. The description of the **Runs** can be seen in the bottom of the dialog when each Name is highlighted. To select a previously defined **Run**, highlight the run from the list, and then press the **OK** button at the bottom of the dialog. Double clicking on the Name also selects a previous **Run** for subsequent processing. Pressing the **Cancel** button will close the **Select Run** dialog without any run settings change. Several file option are supported as depicted in the exploded view below. These include **New**, **Copy**, **Rename**, and **Delete**.



- **File>>New** – allows the user to create a new run. (Do not use this option as it will not copy the default MoDOT settings for the procedure selected. Instead, use Run>>Copy>>Run to copy the MoDOT run.)
- **File>>Copy** – allows the user to copy and existing Project, User or Run.
- **File>>Rename** – allows the user to change the name of the existing Run.
- **File>>Delete** – allows the user to delete an existing Run.



Exercise 2-1

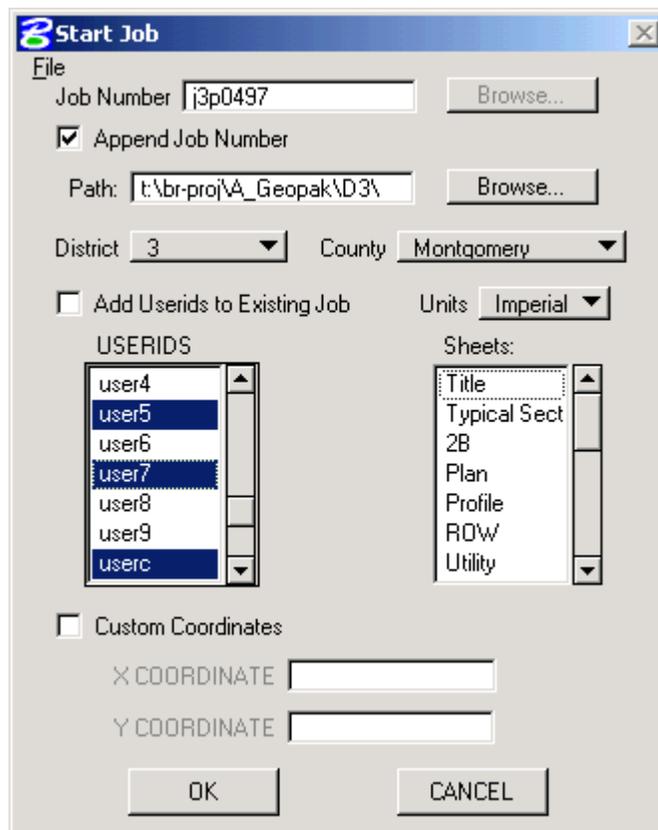
This is an individual exercise to practice setting up the directory structure and files for a new GEOPAK job.

1. Open any MicroStation file.

2. Create the following job with the **Start Job** dialog (MicroStation menu path:

MoDOT > Start GEOPAK Job/Add User).

Use the settings shown in the following dialog.



3. Review the directory structure and the files created in the directory.

Ex. 2-1 Start Job/Project Manager GEOPAK Road for Bridge

4. Use the **Project Manager** dialog to create the following project:

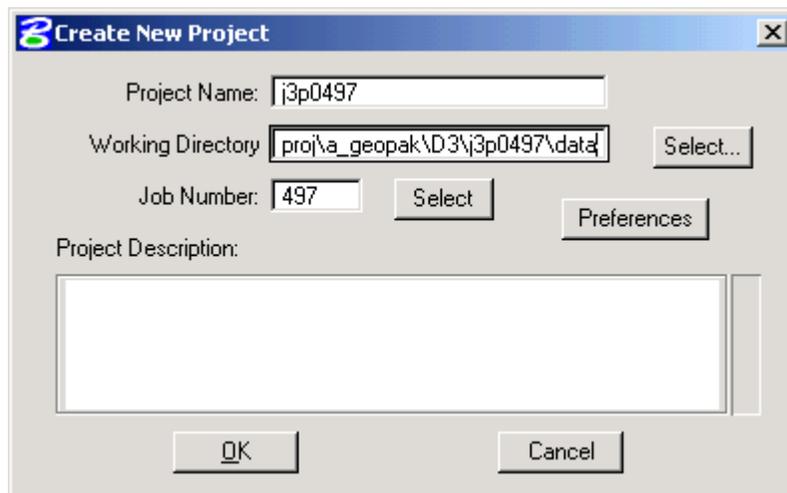
Go to the directory **t:\br-proj\A_Geopak\D3\j3p0497\project**



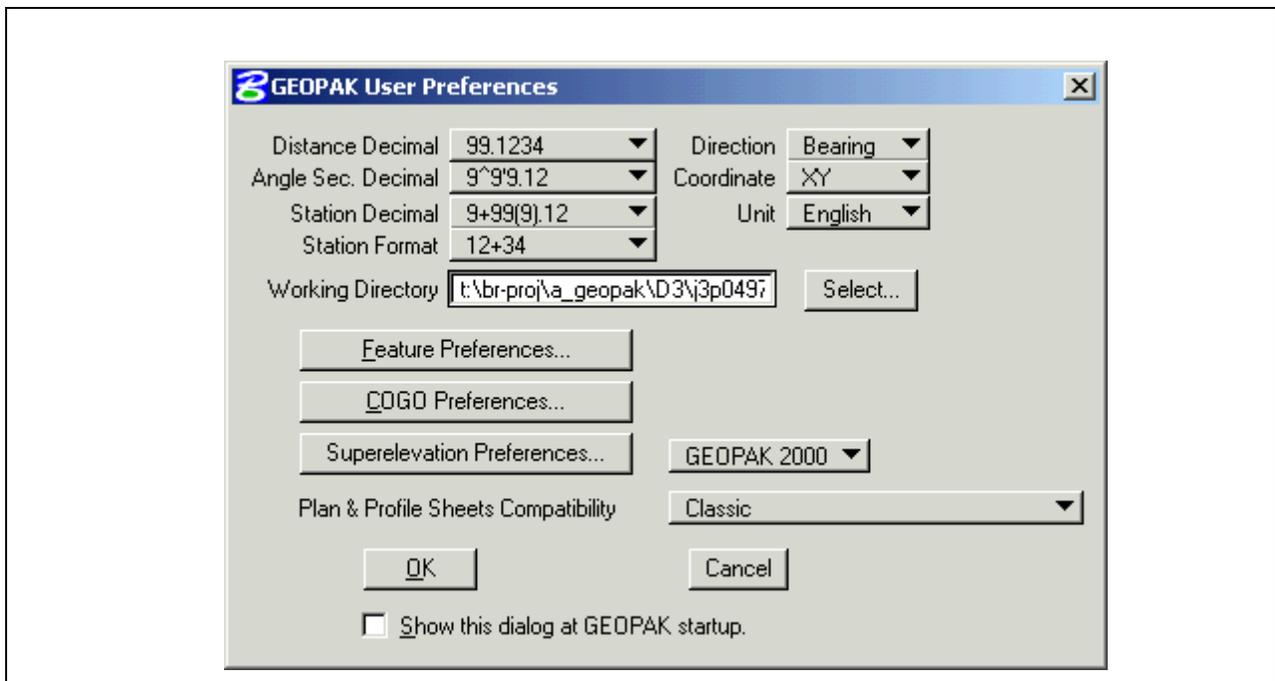
Choose **Projects>>New**.

Enter the following information in the **Create New Project** dialog as shown below.

Project name:	j3p0497
Working Directory:	t:\br-proj\A_Geopak\D3\j3p0497\data
Job Number:	497



Set up the **Preferences** as shown below:



5. Add User2 and User3 as users to the project.

A) Start by toggling on **Add Userids to Existing Job**.

B) Continue by using this **Browse** button to choose the **Job Number** and **Path**.

C) Select the **USERIDS** to be added.

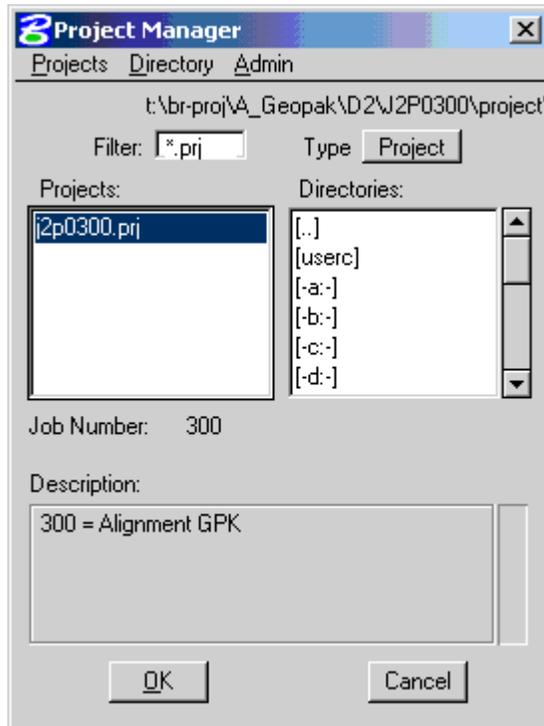
D) Click **OK** to finish the process.

GEOPAK Road for Bridge Ex. 2-2 Working Alignment Setup

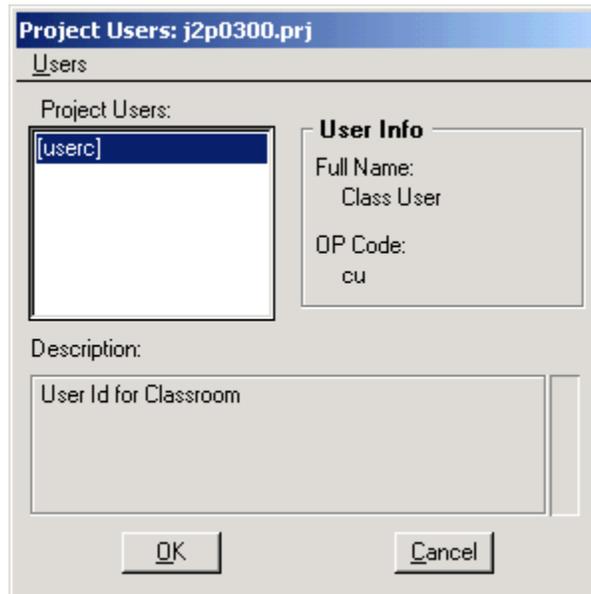
Exercise 2-2 This is an individual exercise to practice setting up a new working alignment.

1. Open the Microstation file `t:\br-proj\a-geopak\d2\j2p0300\data\topo_j2p0300.dgn`.

2. Open the project `t:\br-proj\a-geopak\d2\j2p0300\project\j2p0300.prj`.



3. Select **userc** as the Project User.

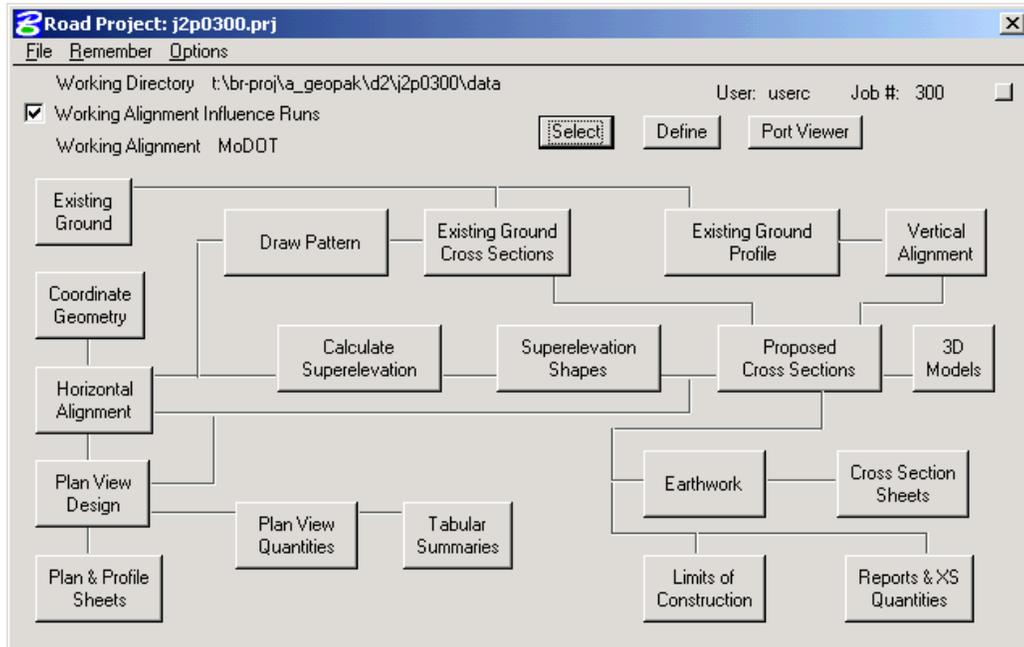


Ex. 2-2 Working Alignment Setup GEOPAK Road for Bridge

4. Select the **Road Project**.

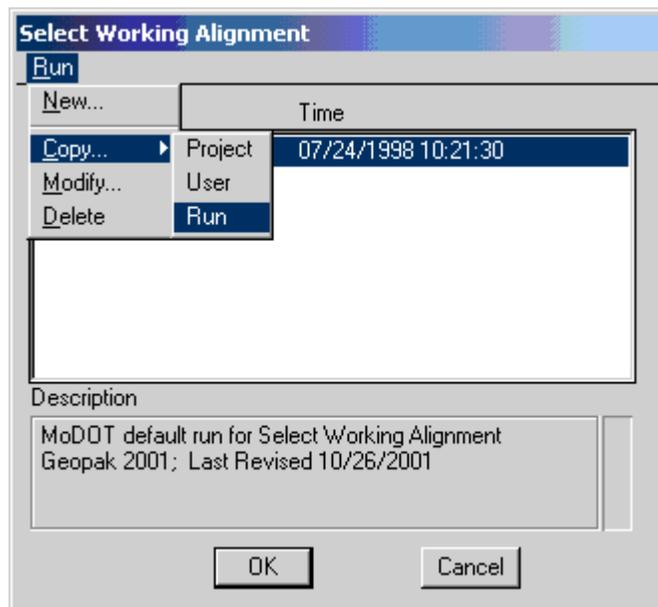


5. Click on **Select** button at the top of the Road Project dialog as depicted below.



In the Select Working Alignment dialog that appears, select the menu option:

Run > Copy... > Run.



This will display the **Select Run to Copy From** dialog shown to the right. Select the default MoDOT run and click **OK**.

Name	Time
MoDOT	07/24/1998 10:21:30

Description
MoDOT default run for Select Working Alignment
Geopak 2001; Last Revised 10/26/2001

Enter **J2P0300** in the new **Run Name** field as depicted in the figure to the right and click **OK** to create the new run.

Run Name: J2P0300

Description

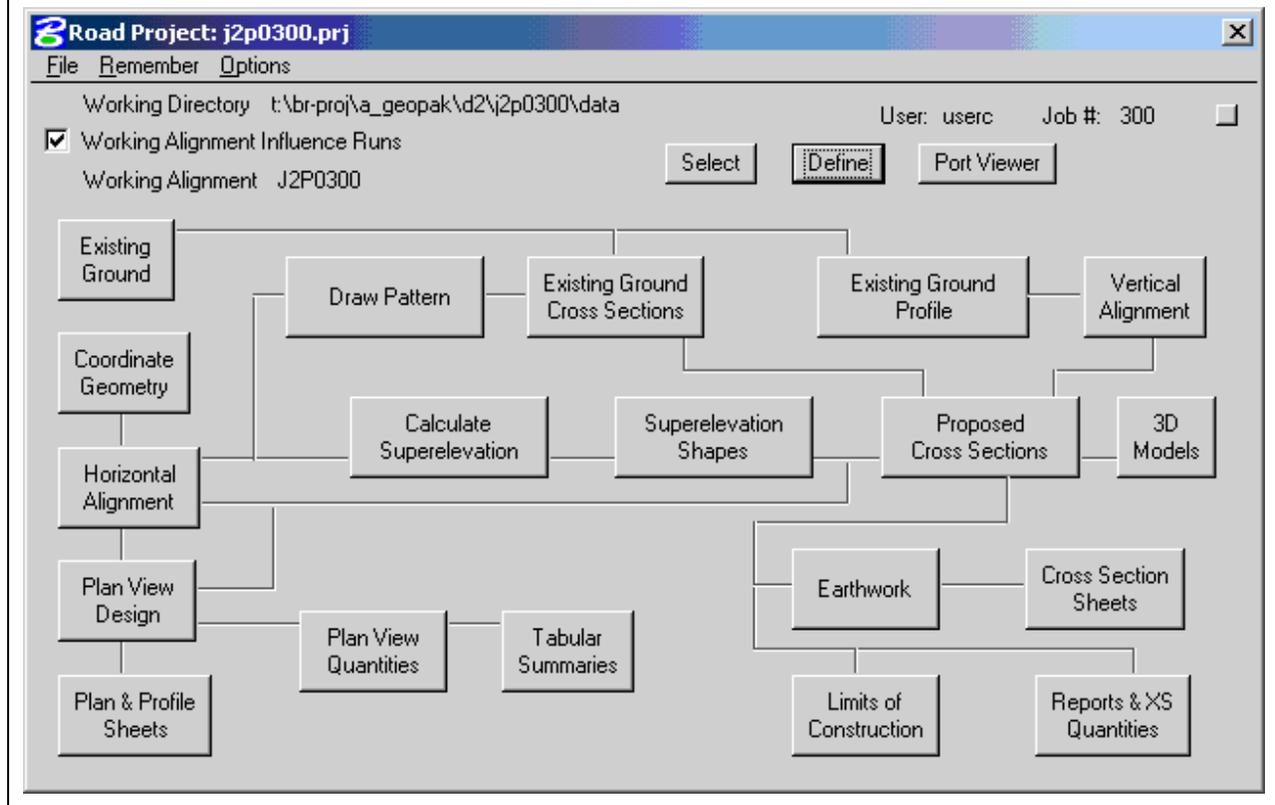
Select the **J2P0300** working alignment as shown below and enter the alignment by clicking **OK**.

Name	Time
J2P0300	05/31/2002 10:19:08
MoDOT	07/24/1998 10:21:30

Description

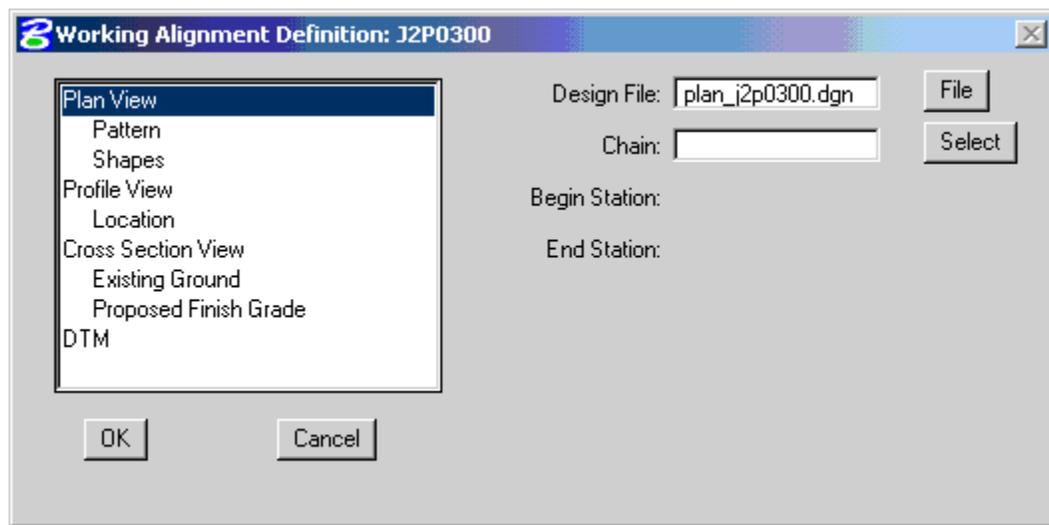
Ex. 2-2 Working Alignment Setup GEOPAK Road for Bridge

6. Enter the working alignment definition by clicking on the **Define** button to the right of the Select button in the Road Project dialog as shown below.



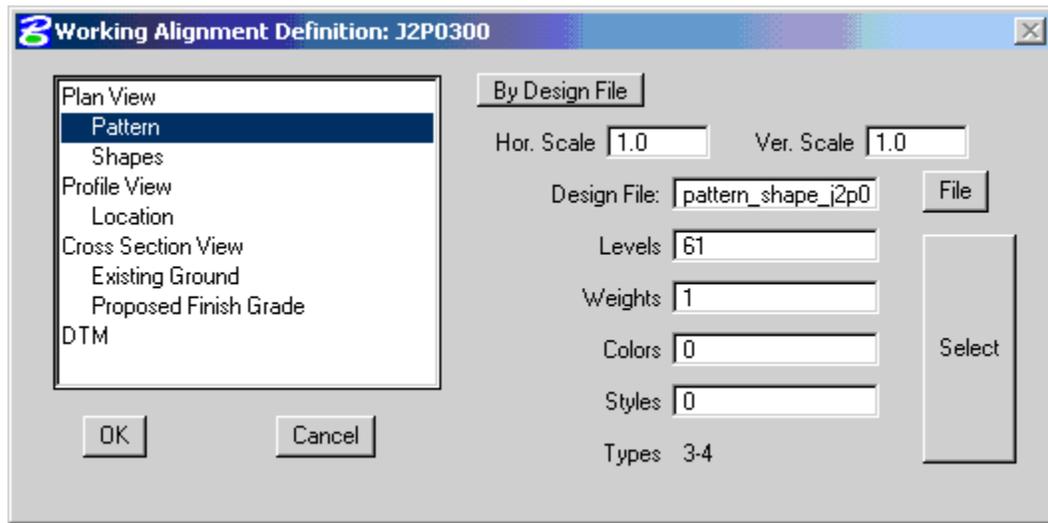
7. Set up the default DGN files for the J2P0300 project as shown below:

In the **Plan View** section, change the Design File to **plan_j2p0300.dgn**.

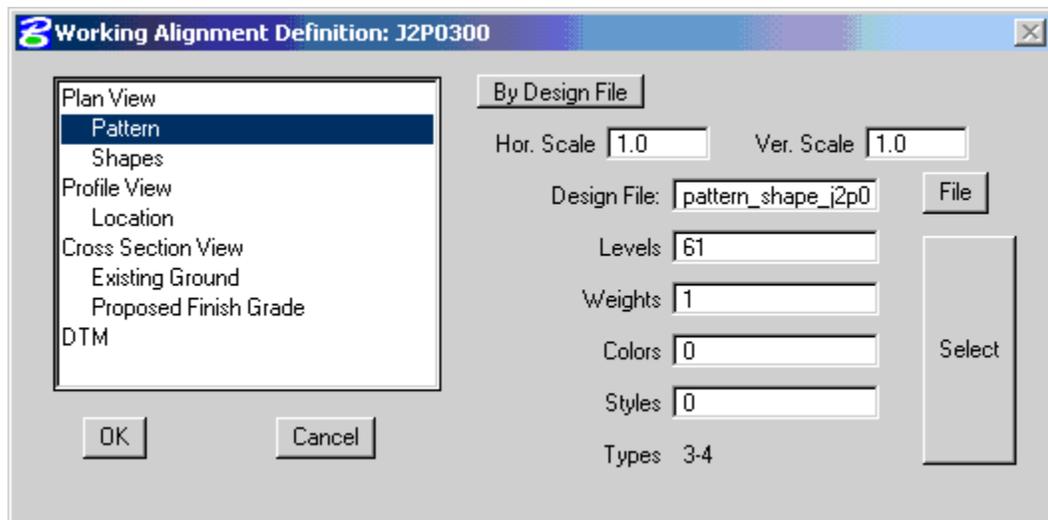


GEOPAK Road for Bridge Ex. 2-2 Working Alignment Setup

In the **Pattern** section, change the Design File to **pattern_shape_j2p0300.dgn**.

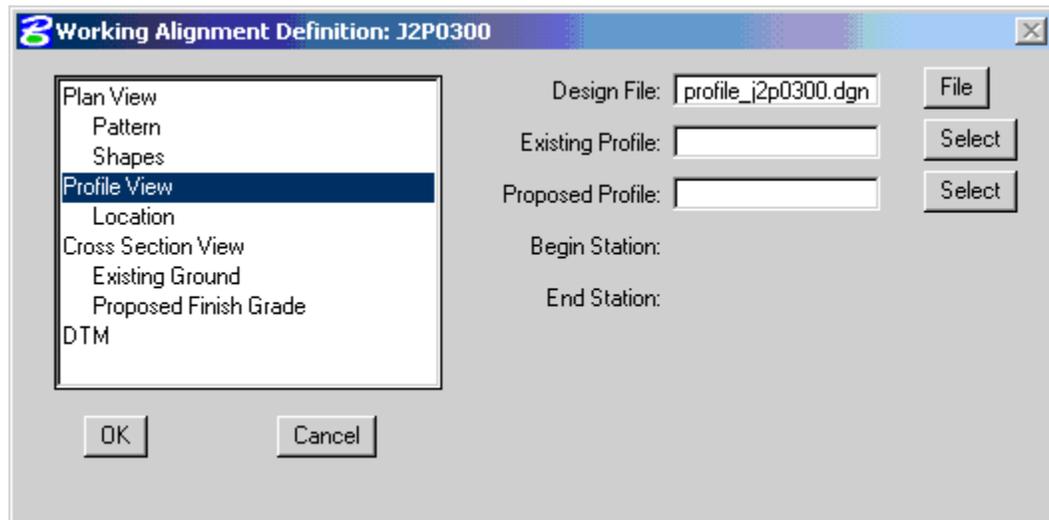


In the **Shapes** section, change the Design File to **pattern_shape_j2p0300.dgn**.



Ex. 2-2 Working Alignment Setup GEOPAK Road for Bridge

In the **Profile View** section, change the Design File to **profile_j2p0300.dgn**.



Save the changes to the working alignment definition by clicking **OK**. This default alignment for the project will be modified and used as the basis for other parts of the project in later exercises.