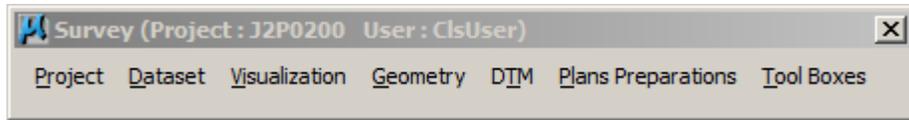
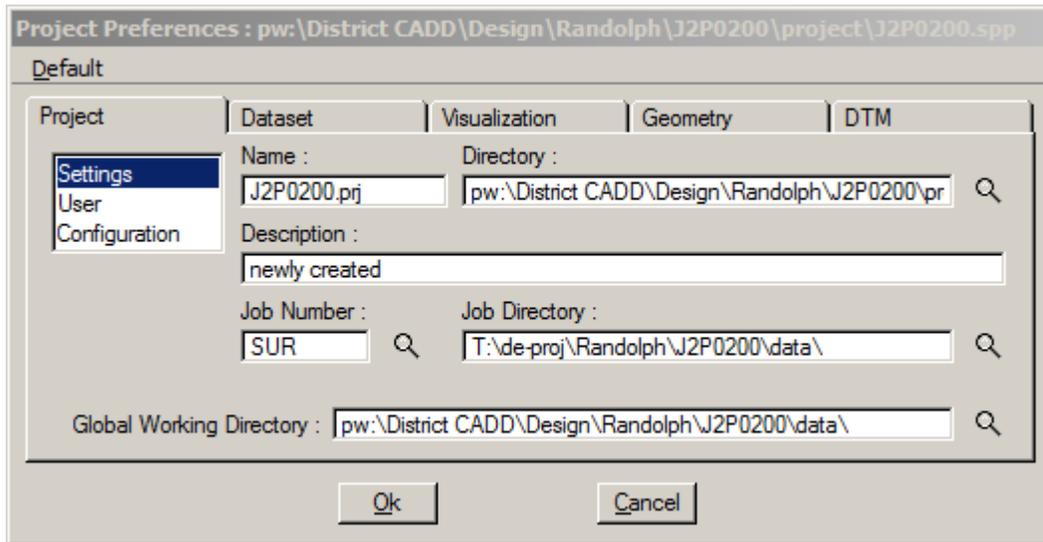


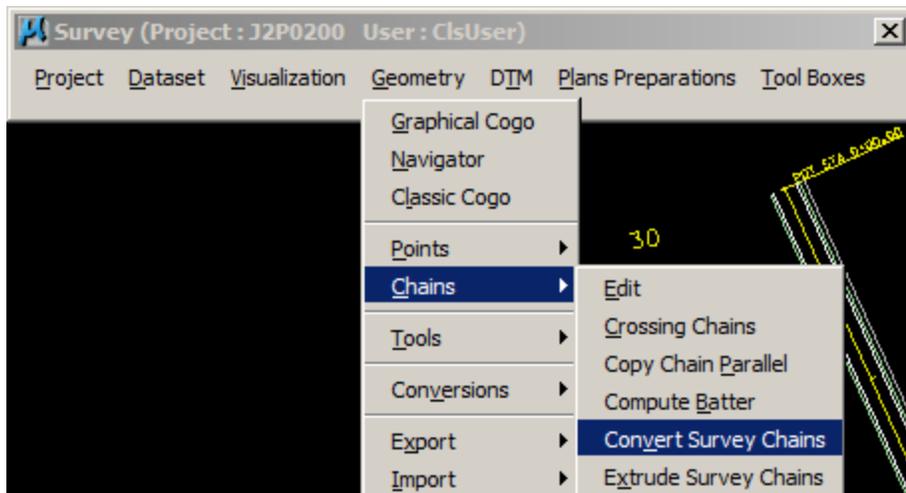
1) Open Project in GeoPak Survey and select User



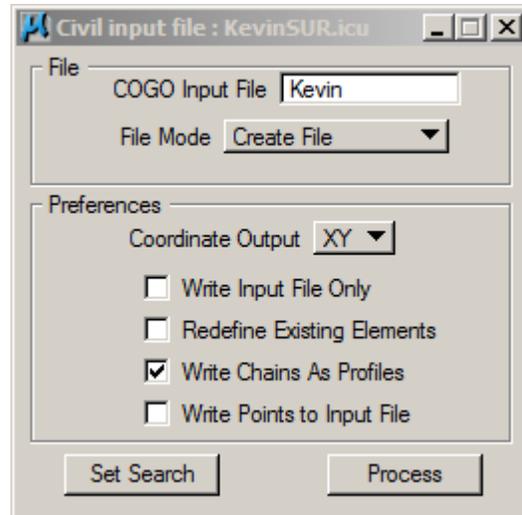
2) In Project preferences make sure the Job Number is set to the correct gpk.



3) Select [Geometry](#) > [Chains](#) > [Convert Survey Chains](#)



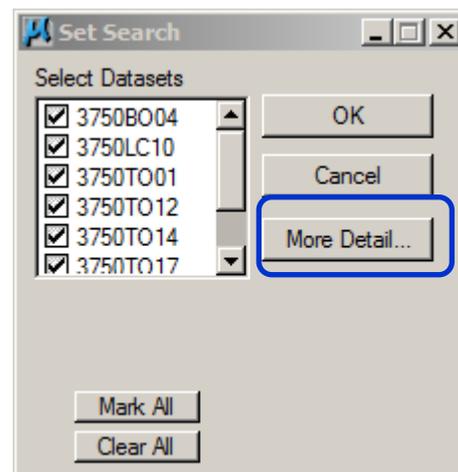
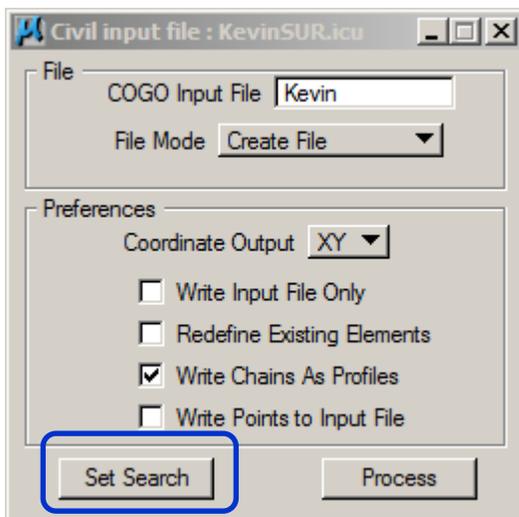
4) Type in a “COGO Input File” name:



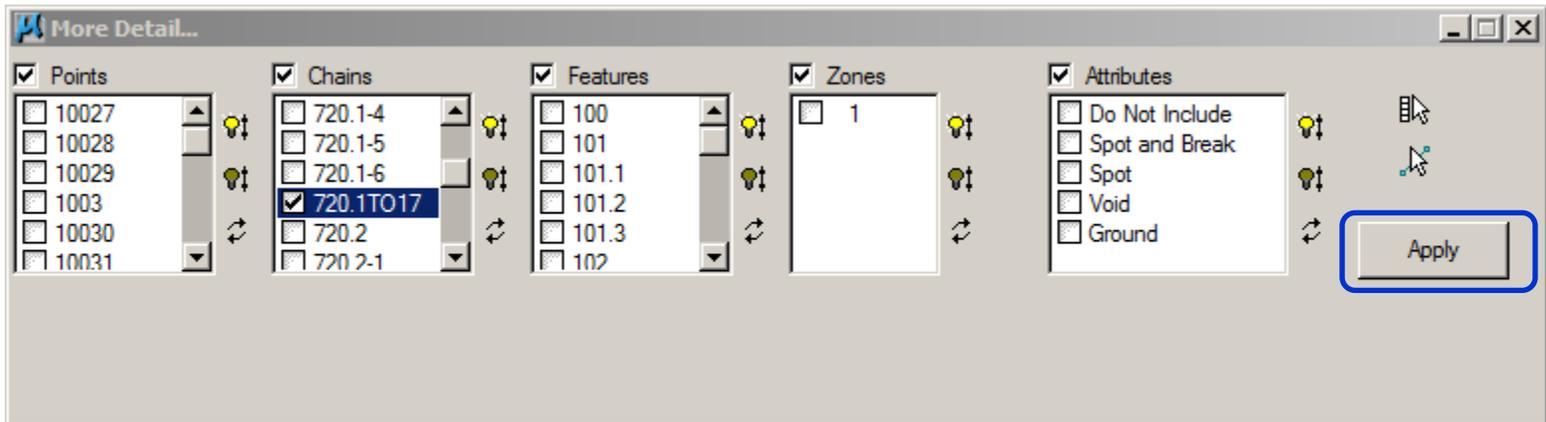
The **COGO Input File** field is the name of the ASCII input file (maximum of five characters) to be generated for subsequent processing via GEOPAK Coordinate Geometry. The Job Number from the project is appended to the end of this name and the extension is in the form of .IOC where OC is the operator code as entered for the project. For example, if the name of the input file name was keyed in as CGO and the current Job Number was 99 and the current Operator Code was ZZ, then the file would be named COGO99.IZZ. Note when the COGO Input File is populated, the input file name is added to the Title Bar. Below the **COGO Input File** field is the option to **Create File** or **Append to an Existing File**.

In the case where the file name already exists and the **Create File** option is selected, the user is prompted to overwrite the existing file, while the **Append to an Existing File** will add the new data to the bottom of the existing file.

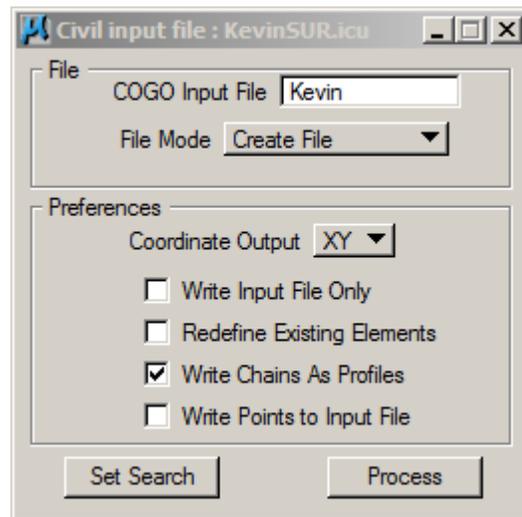
5) Select “**Set Search**” and select dataset that Survey Chain exist in (You can simply select all the datasets if you don’t know which dataset contains the Survey Chain). Once the dataset(s) is/are selected, select “**More Detail...**”



6) In this example I'm going to select only the 720.1to17 Survey Chain. Then select "Apply"



7) In the preferences toggle on "Write Chains As Profiles" and select "Process"



**Coordinate Output** - options include XY or NE

**Write Input File Only** - When this toggle is off, the Points and/or Chains are stored into the .GPK file simultaneously with the input file creation. If this toggle is on, then the input file is generated, but not loaded into the .GPK file. However, the input file can be processed into the .GPK through Coordinate Geometry later in order to have the Points and Chains stored into the .GPK file.

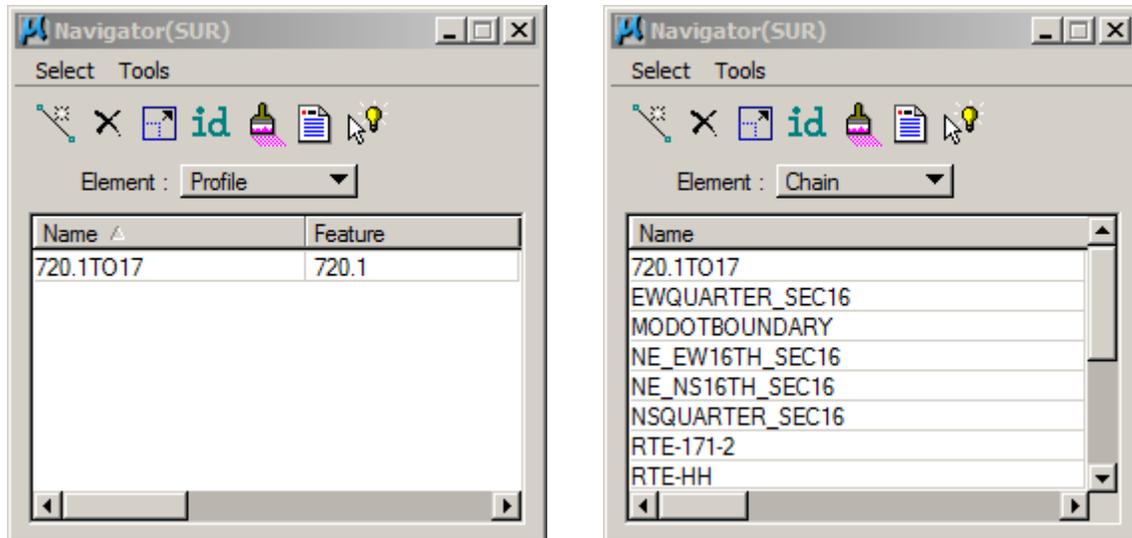
**Redefine Existing Elements** - When the toggle is activated, any element already stored in the coordinate geometry database is overwritten.

**Write Chains As Profiles** - This toggles causes GEOPAK profiles to be created from survey chains. When this toggle is on, each surveyed chain will be stored as a profile in the .GPK Coordinate Geometry database.

**Write Points to Input File** - This toggle causes the input file to contain store point commands for the point numbers used to create COGO chains. Note that this step is not required but is supported for

legacy reasons. The points already reside in the GPK file and do not need to be in the generated data file as store points commands.

8) Open COGO navigator and look for the chain and profile that was created:



Below is a view of the cogo input file that was created during this process:

```
UltraEdit-32 - [c:\users\vollek\pwise_local_electronic_plans\d0195235\kevinSUR.icu]
File Edit Search Project View Format Column Macro Advanced Window Help
kevinSUR.icu
1 SET NOR
2 SET XY
3 SET FEATURE ADD 720.1
4 STORE CHAIN 720.1TO17 11054 11060 11061 11062 11067 11068 11075 11076 STA 0+00.00
5 STORE PROFILE 720.1TO17
6 VPI 11054
7 VPI 11060
8 VPI 11061
9 VPI 11062
10 VPI 11067
11 VPI 11068
12 VPI 11075
13 VPI 11076
14 END PROFILE
15
```

Below is a description of the Chain and Profile:

<\* 1 DESCRIBE CHAIN 720.1TO17

Chain 720.1TO17 contains:

11054 11060 11061 11062 11067 11068 11075 11076

Beginning chain 720.1TO17 description

Feature: 720.1

=====  
Point 11054 X 2,809,723.27 Y 358,116.57 Sta 0+00.00

Course from 11054 to 11060 S 19° 58' 42" E Dist 8.17

Point 11060 X 2,809,726.07 Y 358,108.89 Sta 0+08.17

Course from 11060 to 11061 S 18° 02' 21" E Dist 6.64

Point 11061 X 2,809,728.12 Y 358,102.58 Sta 0+14.81

Course from 11061 to 11062 S 32° 47' 02" E Dist 9.43

Point 11062 X 2,809,733.23 Y 358,094.65 Sta 0+24.24

Course from 11062 to 11067 S 19° 02' 45" E Dist 8.10

Point 11067 X 2,809,735.87 Y 358,086.99 Sta 0+32.34

Course from 11067 to 11068 S 32° 15' 51" E Dist 10.44

Point 11068 X 2,809,741.45 Y 358,078.16 Sta 0+42.78

Course from 11068 to 11075 S 50° 39' 10" E Dist 5.03

Point 11075 X 2,809,745.33 Y 358,074.97 Sta 0+47.81

Course from 11075 to 11076 S 62° 17' 20" E Dist 4.49

Point 11076 X 2,809,749.31 Y 358,072.89 Sta 0+52.30

=====  
Ending chain 720.1TO17 description

<\* 2 PRINT PROFILE 720.1TO17

Beginning profile 720.1TO17 description:  
Feature: 720.1

=====

	STATION	ELEV	GRADE	TOTAL L	BACK L	AHEAD L
VPI 11054	0+00.00	953.20				
VPI 11060	0+08.17	954.03	10.19			
VPI 11061	0+14.81	954.66	9.48			
VPI 11062	0+24.24	954.88	2.29			
VPI 11067	0+32.34	955.06	2.31			
VPI 11068	0+42.78	955.53	4.45			
VPI 11075	0+47.81	955.72	3.84			
VPI 11076	0+52.30	956.43	15.84			

=====

Ending profile 720.1TO17 description