

The new field codes for picking up ground stays and aerial stays in the field are

Ground Stays = %GS

Aerial Stays = %AS

For a ground stay, take a reading to the point where the stay meets the ground and use the code **%GS** in the comments.

For an aerial stay, take a reading at the bollard and use the code **%AS** in the comments.

Ground & Aerial Stay Attachment Heights on Pole = %SA

This code is used to pick up the height of the stay wire on the pole. The same code is used to pick up the height of the stay wire on the bollard.

If there is more than 1 stay on a pole then use a **"/** with each stay code so that the program knows how to connect the points in the model.

The **"/** indicates that there is more than one stay on the pole. The number after the **"/** indicates which stay number it is. E.g., **"%GS/2"** refers to the 2nd stay on the pole and will be attached to the code **"SA10.1/2"** at a height of 10.1m

Examples

One Ground Stay

%GS

%SA10.1

One Aerial Stay

%AS7.5

%SA8.75

Two Ground Stays

%GS/1

%GS/2

%SA10.0/1

%SA10.1/2

Two Aerial Stays

%AS8.5/1

%AS8.0/2

%SA9.5/1

%SA9.2/2

One Ground Stay & One Aerial Stay

%GS/1

%AS9.0/2

%SA8.5/1

%SA9.3/2

COLDNet Profile – Field Codes for Picking Up Stay Data

Aerial Stay with Bollard/Stub Pole Stay

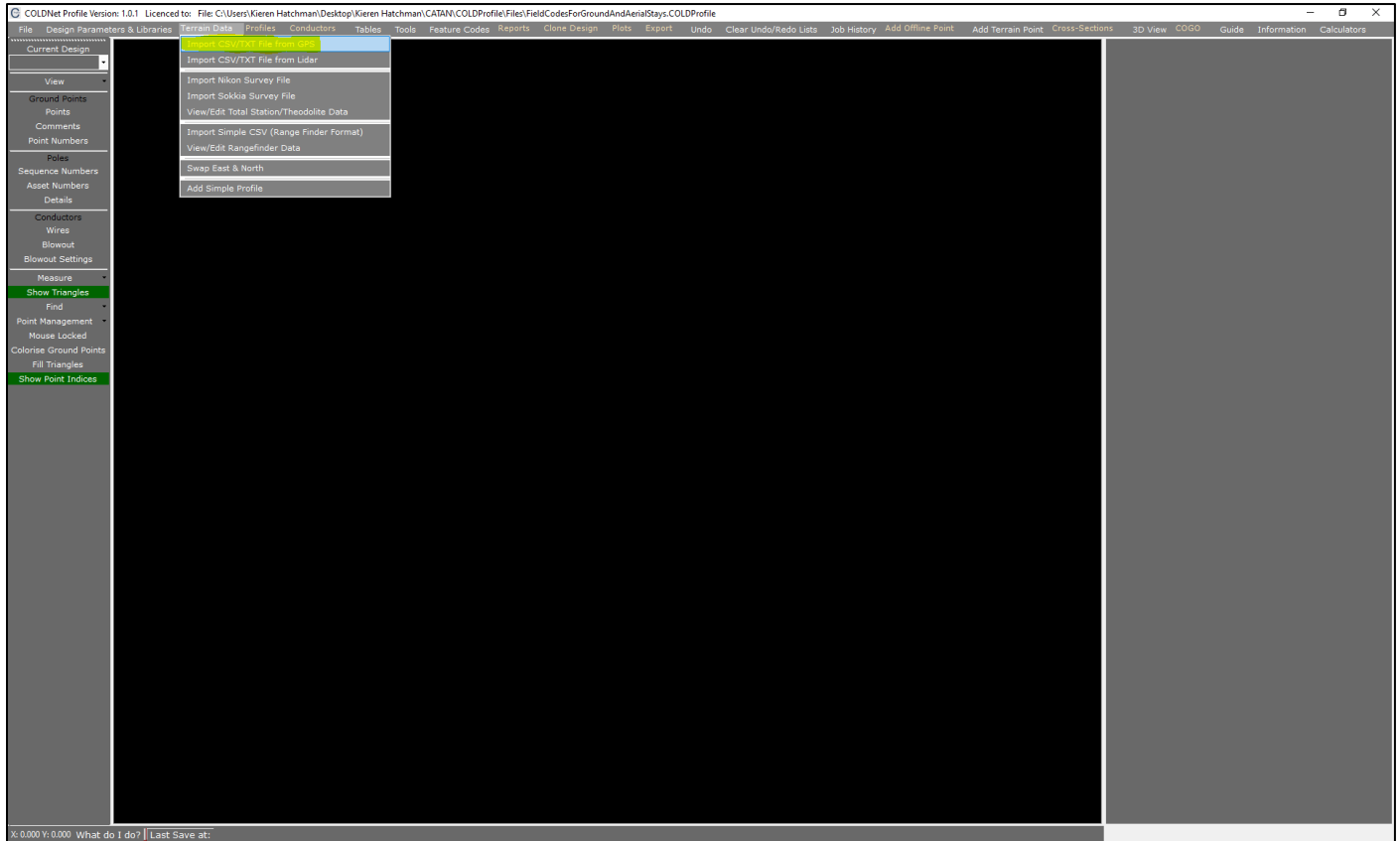
%AS7.75 with %SA8.2

%SA9.00

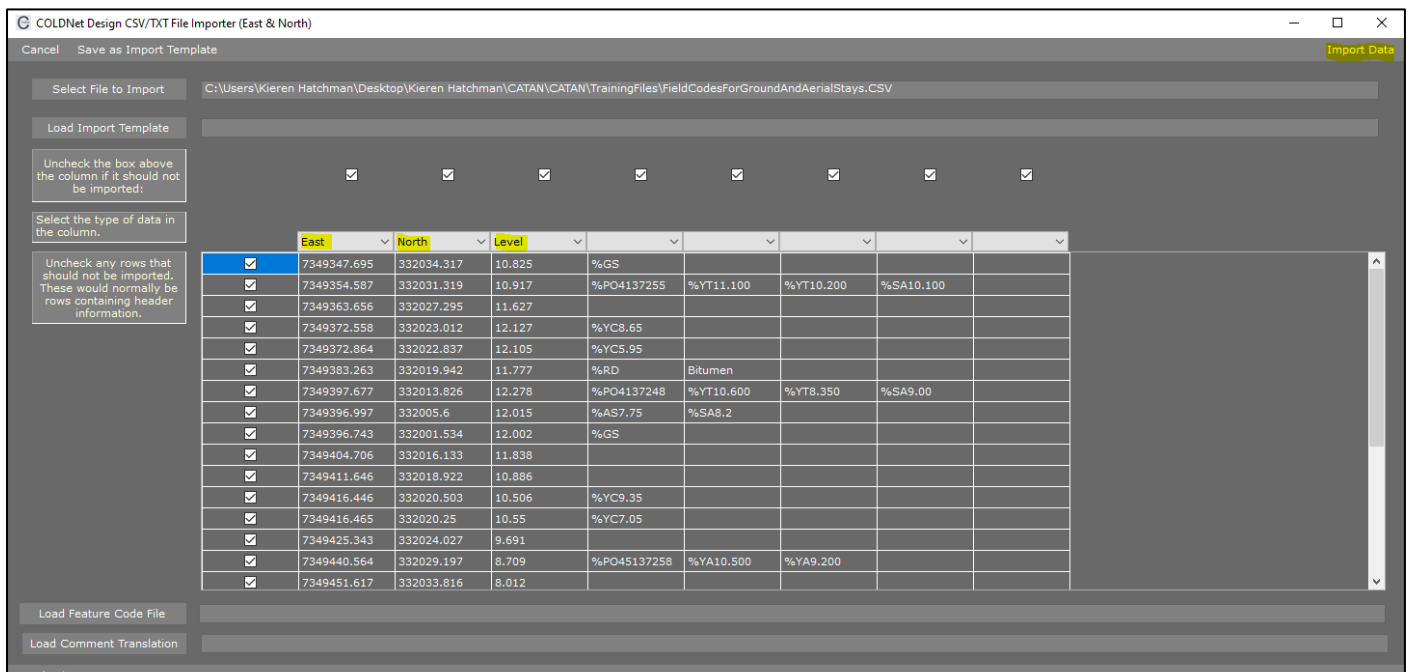
%GS

Walkthrough

1. Open COLDNet Profile and create a new file
2. Select **Terrain Data>Import CSV/TXT File from GPS**



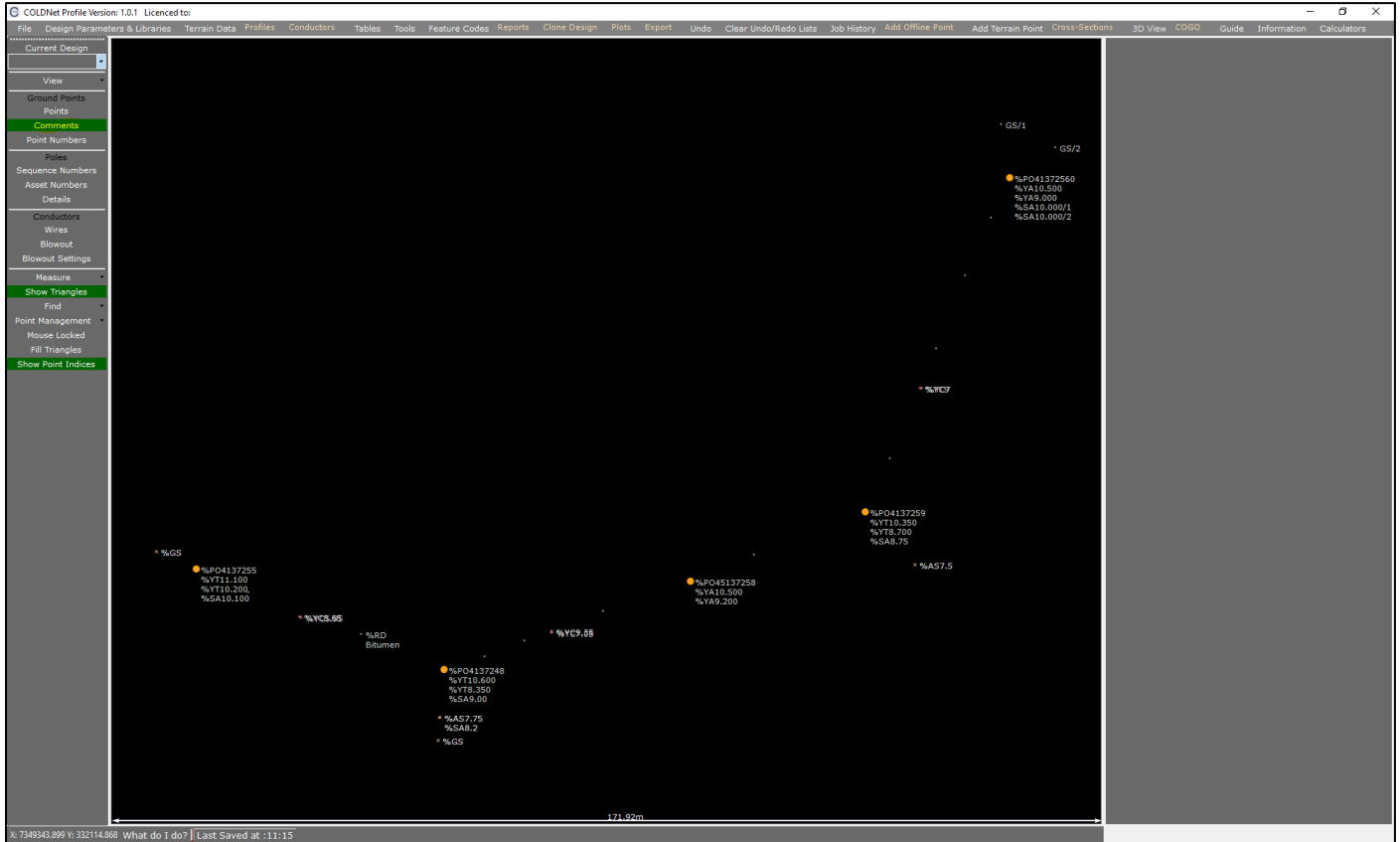
3. Download and open the file **FieldCodesForGroundAndAerialStays.csv**
4. Select **East, North & Level** for the column headings followed by the option **Import Data**



COLDNet Profile – Field Codes for Picking Up Stay Data



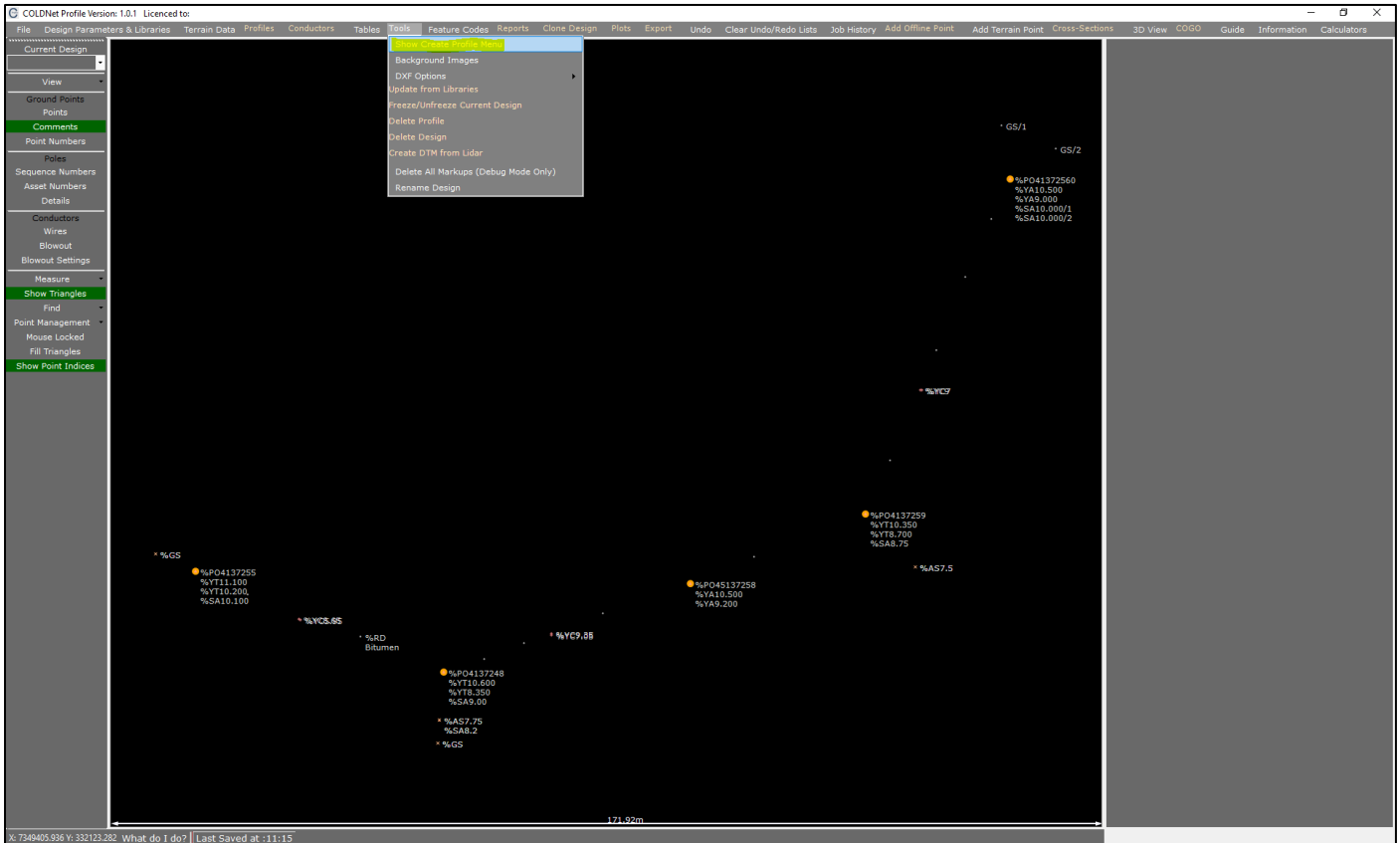
5. The survey data will have been imported. Turn on **Comments** to view the survey data comments



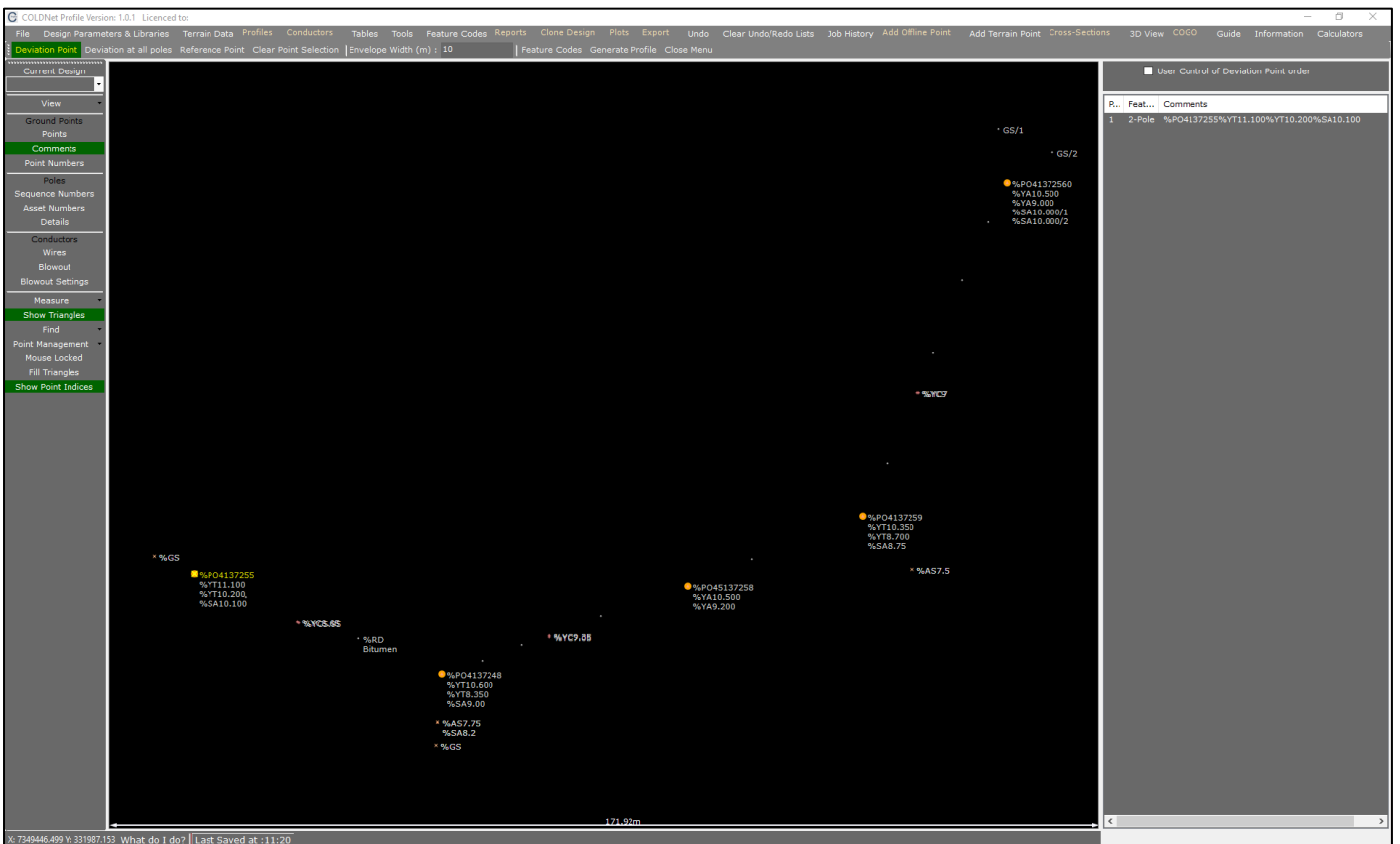
6. Next, we are going to create our centreline (profile)

7. Select **Tools>Show Create Profile Menu**

COLDNet Profile – Field Codes for Picking Up Stay Data

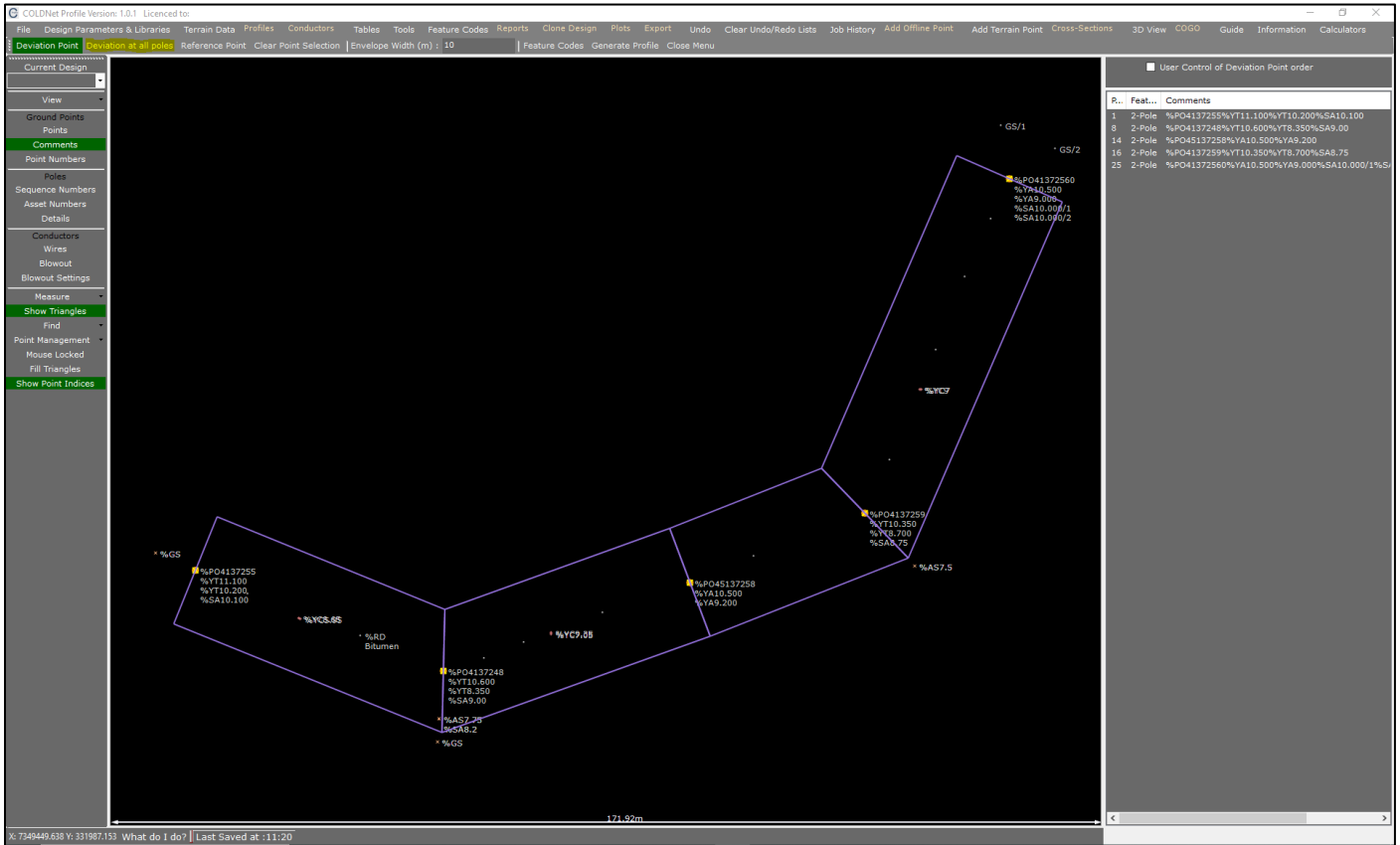


8. Select Deviation Point and left-mouse click on the first pole (%PO4137255)

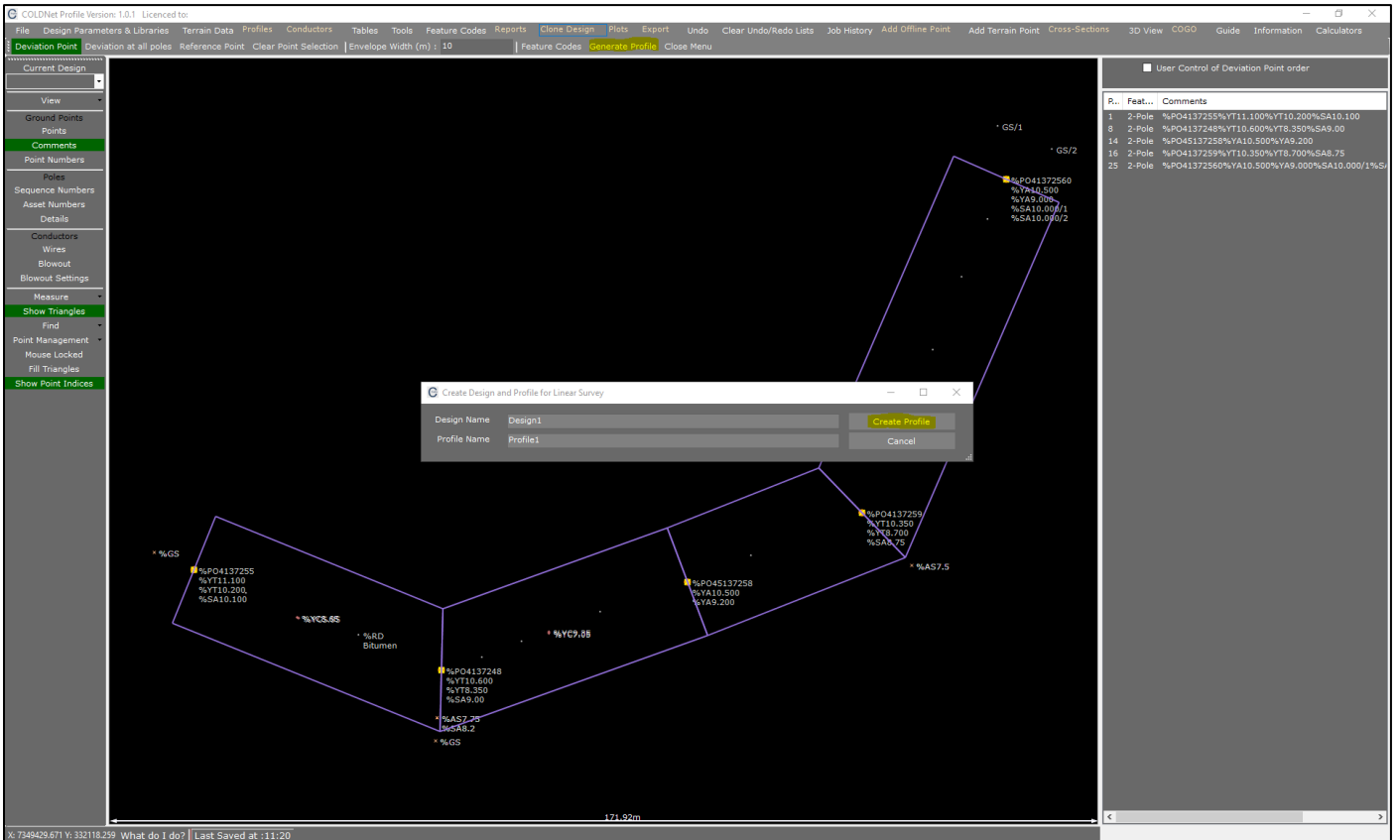


9. Select Deviation at all poles

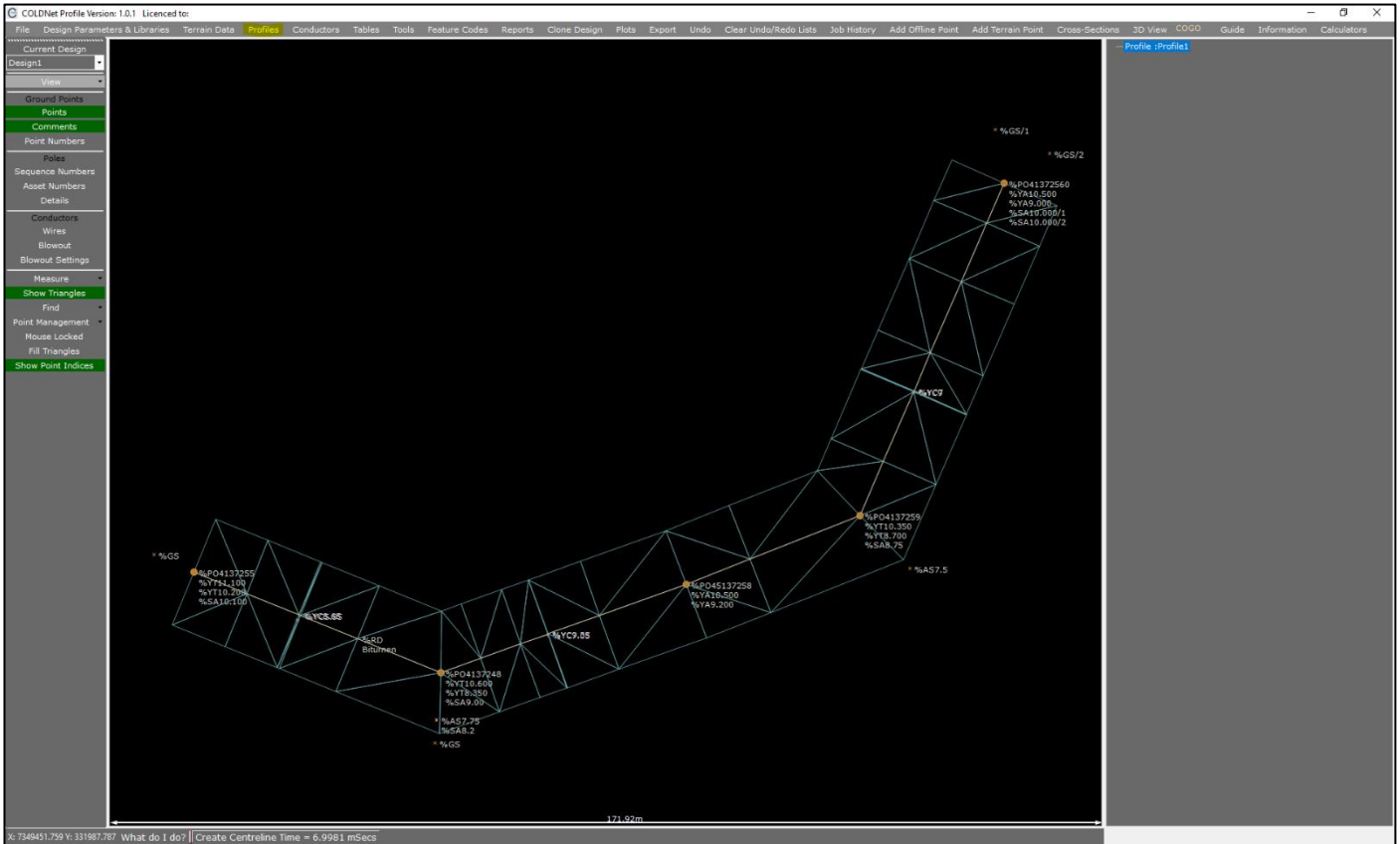
COLDNet Profile – Field Codes for Picking Up Stay Data



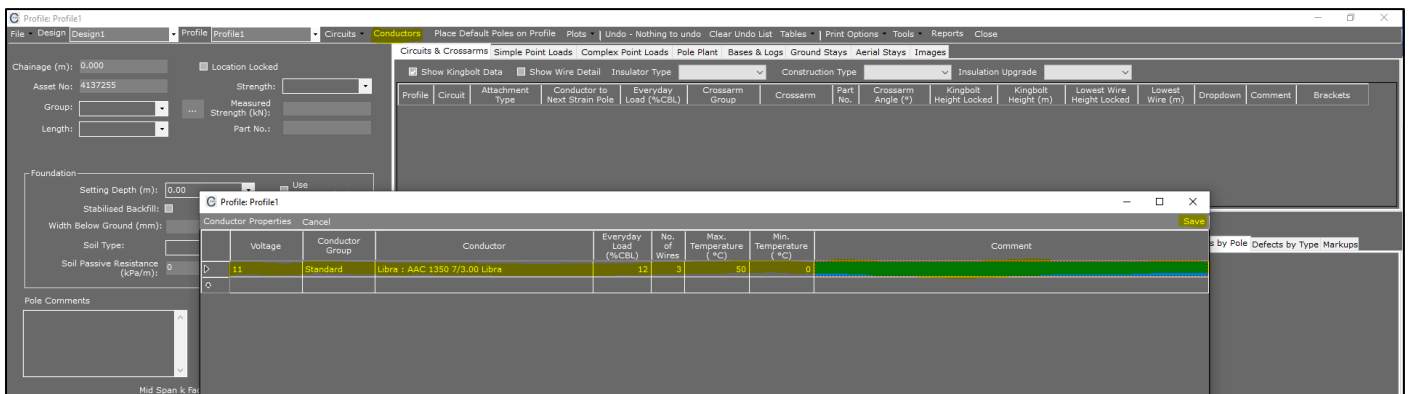
10. Select Generate Profile>Create Profile



11. Select Profiles



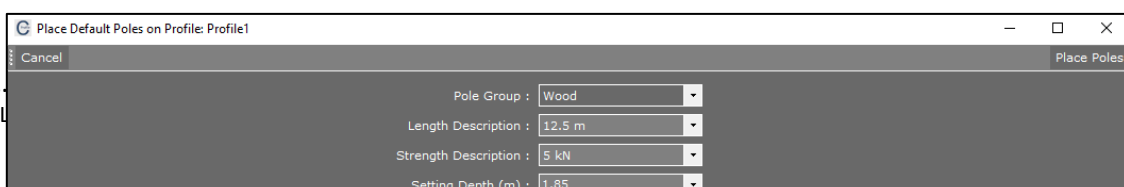
12. Add a conductor to our design so that we can place our default poles. Select **Conductors** and enter the conductor properties followed by the **Save** option



13. Select **Place Default Poles on Profile** and enter the default pole properties followed by the option to **Place Poles**. It is at this point that any ground and aerial stays attached to poles in this profile get automatically generated from their field codes.

By default, the previous ground and aerial stay that has been used by the designer will be used as the default option when processing the stay field codes. If it is the users first time using the software it will automatically use the first stay in the library as the default and the first pole and conductor in their respective libraries for the default aerial stay.

If no stay attachment heights have been provided (%SA codes), the ground stays will have assumed to be at an angle of 45° to the ground. The aerial stays will be attached at the pole at the same height as the bollard/stub pole.



COLDNet Profile – Field Codes for Picking Up Stay Data



Profile Profile

File Design Design1 Profile Profiles Circuits Conductors Place Default Poles on Profile Plots Nothing to Undo Clear Undo List Tables Print Options Tools Reports Close

Circuits & Crossarms Simple Point Loads Complex Point Loads Pole Plant Bases & Logs Ground Stays Aerial Stays Images

Show Kingbolt Data Show Wire Detail Insulator Type Construction Type Insulation Upgrade

Profile	Circuit	Attachment Type	Conductor to Next Strain Pole	Everyday Load (kCAL)	Crossarm Group	Crossarm	Part No.	Crossarm Angle (°)	Kingbolt Height Locked	Kingbolt Height (m)	Lowest Wire Height Locked	Lowest Wire (m)	Comment	Brackets
Profile1	2	Strain	11 Libre x 3	12.0	Standard	Strain 3Ph 2400x150x100	11S3/3/LIB/	202	<input type="checkbox"/>	11.100	<input checked="" type="checkbox"/>	11.100		Add Brackets
Profile2	2	Strain	11 Libre x 3	12.0			11/LIB/	202	<input type="checkbox"/>	10.200	<input checked="" type="checkbox"/>	10.200		Add Brackets

Visuals Catenaries Clearance to Ground Sag Ground Point Filter 1 Height Above Ground

Defects by Pole Defects by Type Markups

- Pole 1 Asset No: 4137255
- Pole 2 Asset No: 4137248
- Pole 3 Asset No: 45137258
- Pole 4 Asset No: 4137259
- Pole 5 Asset No: 41372560
- Circuit 2

Pole Wires Stays

Foundation

Setting Depth (m): 1.85 Use Non-Standard

Stabilised Backfill:

Width Below Ground (mm):

Soil Type: Good

Soil Passive Resistance (kPa/m): 1800 Use Non-Standard

Pole Comments

Survey Comments

Mid Span k Factor: 0.40

Show Errors Only Modify Wind Pressure and Strength Factors

Description	Result
Wire System Results	
Loadcase	Utilisation (%) Values (kN)
Limit State	62.65 21.09 / 33.67
Sustained	20.25 6.82 / 33.67
Pole Bending At Stay	
Loadcase	Utilisation (%) Values (kNm)
Limit State	227.99 11.28 / 4.95
Sustained	270.18 3.71 / 1.37
Tripod Results Transverse to Stay	
Loadcase	Pole Utilisation (%) Values (kN)
Limit State	28.51 2.57 / 9.00
Sustained	6.21 0.16 / 2.50
Foundation Results Transverse to Stay	
Loadcase	Utilisation (%) Values (kN)
Limit State	20.83 2.57 / 10.32
Sustained	4.45 0.16 / 3.49
Uplift (Leve is up)	
Loadcase	Uplift (kN)
Uplift Circuit 1	0.03
Uplift Circuit 2	-0.06
Horizontal Midspan Separation to next pole	
Circuit	Result (m)
Circuit 1	1.02 > 0.43 m
Circuit 2	0.00 < 0.43 m
Vertical Midspan Separation to next pole	
Circuits	Result (m)
Result 1 to lower Circuit	2.18 > 0.43 m

Changeage: 98.627 RL: 2.738 What do I do?

COLDNet Profile Version: 1.0.1 Licensed to: File C:\Users\Kieren Hatchman\Desktop\Kieren Hatchman\CATAN\COLDProfileFiles\FieldCodesForGroundAndAerialStays.COLDProfile

File Design Parameters & Libraries Terrain Data Profiles Conductors Tables Tools Feature Codes Reports Clone Design Plots Export Undo Clear Undo/Redo Lists Job History Add Offline Point Add Terrain Point Cross Sections 3D View COGO Guide Information Calculators

Current Design

Design1

View

Ground Points

Points

Comments

Point Numbers

Poles

Sequence Numbers

Asset Numbers

Profile Profile1

- Pole 1 Asset No: 4137255
- Pole 2 Asset No: 4137248
- Pole 3 Asset No: 45137258
- Pole 4 Asset No: 4137259
- Pole 5 Asset No: 41372560
- Circuit 2
- Poles 1 to 2
- Poles 2 to 3
- Poles 3 to 4
- Poles 4 to 5
- Profile: Stay Profile 1
- Pole 1 Asset No: 4137248