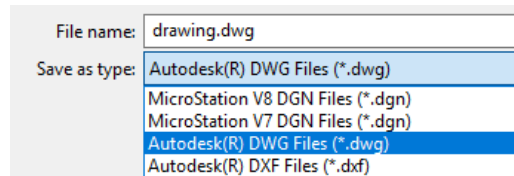
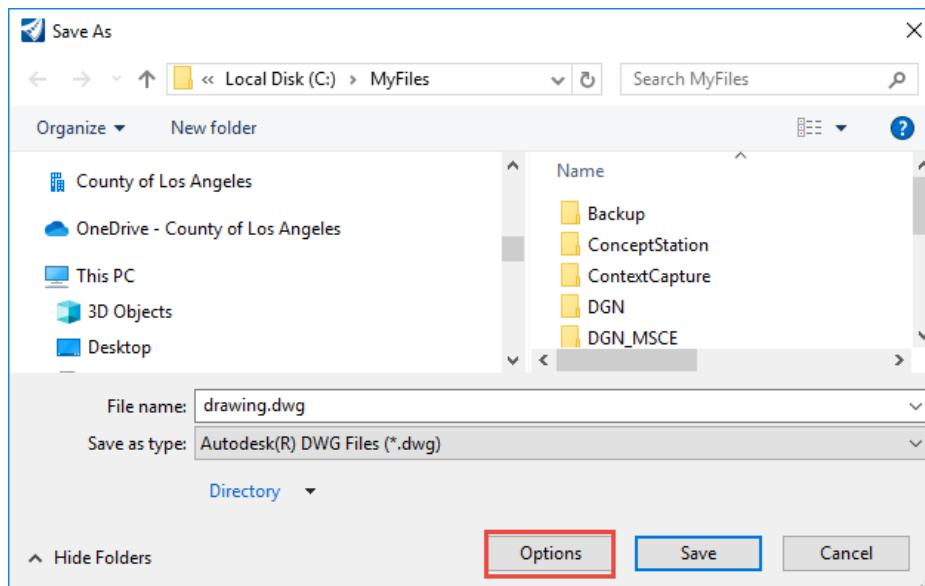


## Remapping Files

When saving a file as a different name or format in MicroStation, there is an option to remapping element and text attributes such as level names, text size, etc. In the file 'Save As' dialog box, go to the 'Save as type' drop down menu to choose the desired file format to be converted to:



Select 'Options'.



Remapping templates to remap levels, attributes, and text styles available here:

[https://pw.lacounty.gov/nas/gis/cad/carlson/Survey\\_DWG-to-DGN.zip](https://pw.lacounty.gov/nas/gis/cad/carlson/Survey_DWG-to-DGN.zip)

<https://pw.lacounty.gov/nas/gis/cad/data/DGN-to-DWG-Edison.zip>

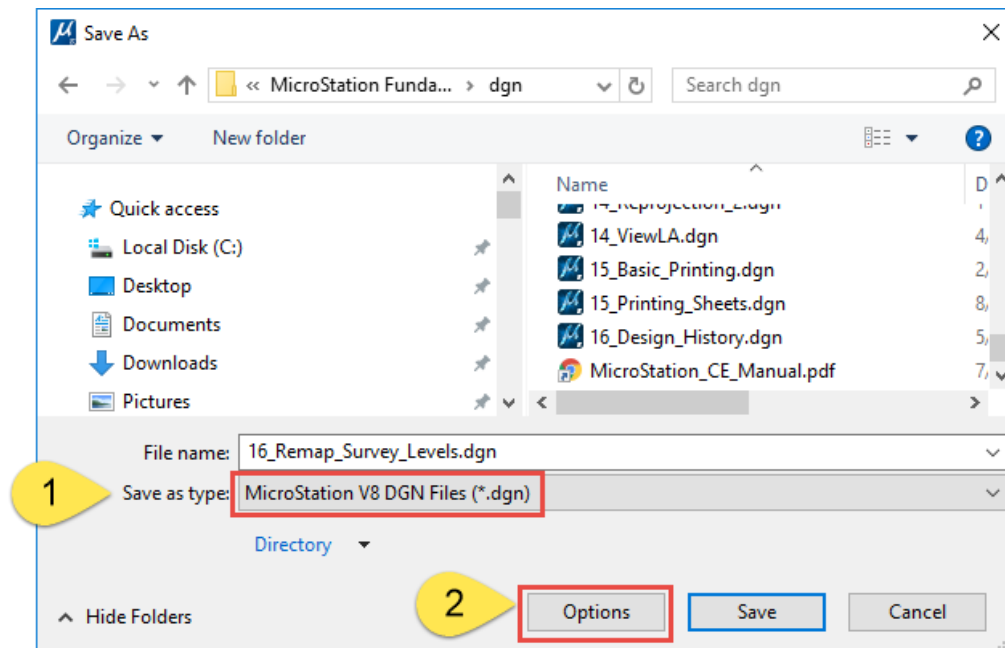
Templates available at time of this manual update are shown below:

- DWG-to-DGN-Survey.csv – This is used for converting DWG files created from the Carlson Survey software into a DGN format with the standard MicroStation levels used at Public Works.
- DGN-to-DWG-Edison.csv – This is used by Waterworks when saving a DGN file to DWG format and remapping Public Works levels to Southern California Edison levels.

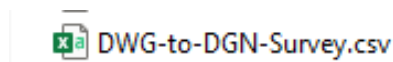
### Example 1: Remapping Levels from DWG to DGN (Survey Projects)

In this example, we will work with a DWG file for a typical survey job created from Carlson survey software. In order to use this file for road and drainage design, some levels will need to be remapped from AutoCAD to MicroStation format to match our CADD standards. You will use the same remapping file used by survey personnel.

1. Open the file **.dwg** file containing the survey in MicroStation.
2. To remap levels and save a DWG survey file as a DGN.



3. Select CSV remapping file named **Survey\_DWG-to-DGN.csv**



If the file is not available above, it is also located in the workspaces training folder:  
*C:\ProgramData\Bentley\LACOPW\_CONNECT\Configuration\WorkSpaces\Training\WorkSets\MicroStation Fundamentals\dgn\Data*

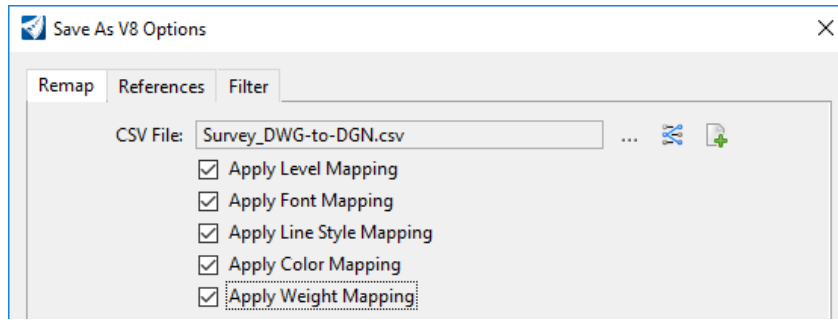
Complete workspace above downloadable here if desired:

[https://pw.lacounty.gov/nas/gis/cad/standards/LACOPW\\_CONNECT.zip](https://pw.lacounty.gov/nas/gis/cad/standards/LACOPW_CONNECT.zip)

How to setup workspace (optional):

[https://pw.lacounty.gov/nas/gis/cad/standards/CONNECT\\_Workspace\\_Setup\\_Public.pdf](https://pw.lacounty.gov/nas/gis/cad/standards/CONNECT_Workspace_Setup_Public.pdf)

4. Use these options.



5. Save file and name it **Survey\_Draft.dgn**.

6. Here is a comparison of before and after performing the remapping process:

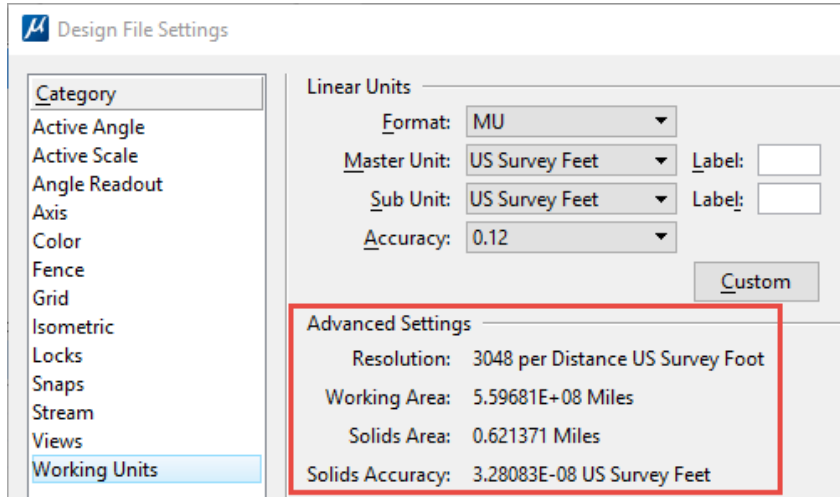
Levels Before:

Name	Description	Color	Weight	Style
Drain_CatchBasin_Ex	Drainage - Existing Catch Basin	Green	3	CONTINUOUS
Drain_FL_Ex	Drainage - Existing Concrete Flowline	Cyan	4	CONTINUOUS
Drain_WeepHoles_Ex	Drainage - Existing Weep Holes	Red	1	CONTINUOUS
Fenc_CLF_Ex	Fences - Existing Chain Link Fence	Magenta	6	CONTINUOUS
PNTDESC		Green	3	CONTINUOUS
PNTELEV		Blue	5	CONTINUOUS
PNTNO		White	7	CONTINUOUS
Road_EG_Ex	Road - Existing Edge of Gutter	Yellow	2	CONTINUOUS
Road_FL_Ex	Road - Existing Asphalt Flowline	Blue	5	CONTINUOUS
Road_Pvmt_AC_Ex	Road - Existing Asphalt-Concrete Pav...	Blue	5	CONTINUOUS
Road_Pvmt_PCC_Ex	Road - Existing Portland Cement Con...	Green	3	CONTINUOUS
Road_TC_Ex	Road - Existing Top of Curb	Magenta	6	CONTINUOUS
Road_Walk_Back_Ex	Road - Existing Back of Walkway	Red	1	CONTINUOUS
Surv_Control_Ex	Survey - Control Point	Red	1	CONTINUOUS
Surv_Topo_Misc_Feature_Ex	Survey - Existing Topographic Miscell...	White	7	CONTINUOUS
Terr_Dirt_Ex	Terrain - Existing Dirt Area	Magenta	6	CONTINUOUS
Traf_Pole_Concrete_Ex	Traffic - Existing Concrete Street Lig...	Magenta	6	CONTINUOUS
Util_Manhole_Ex	Utility - Existing Manhole	Cyan	4	CONTINUOUS
Util_Pipe_STP_Ex	Utility - Existing Steel Pipe	Red	1	CONTINUOUS
Util_PullBox_Ex	Utility - Existing Pull Box	Magenta	6	CONTINUOUS
Wall_Retaining_Conc_Ex	Walls - Existing Concrete Retaining Wall	Blue	5	CONTINUOUS

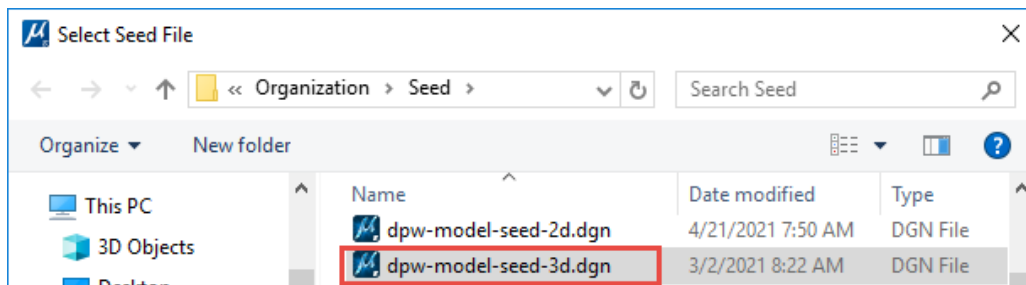
Levels After:

Name	Description	Color	Weight	Style
Drain_CatchBasin_Ex	Drainage - Existing Catch Basin	Green	3	CONTINUOUS
Drain_FL_Ex	Drainage - Existing Concrete Flowline	Cyan	4	flowline-3
Drain_WeepHoles_Ex	Drainage - Existing Weep Holes	Red	1	——— 0
Fenc_CLF_Ex	Fences - Existing Chain Link Fence	Magenta	6	ex-clfnc
Road_EG_Ex	Road - Existing Edge of Gutter	Yellow	2	CONTINUOUS
Road_FL_Ex	Road - Existing Asphalt Flowline	Blue	5	flowline-3
Road_Pvmt_AC_Ex	Road - Existing Asphalt-Concrete Pav...	Blue	5	ex-ac
Road_Pvmt_PCC_Ex	Road - Existing Portland Cement Con...	Green	3	CONTINUOUS
Road_TC_Ex	Road - Existing Top of Curb	Magenta	6	——— 0
Road_Walk_Back_Ex	Road - Existing Back of Walkway	Red	1	CONTINUOUS
Surv_Control_Ex	Survey - Control Point	Red	1	CONTINUOUS
Surv_Point_Description	Survey - Point Tag Description	Green	3	——— 0
Surv_Point_Elevation	Survey - Point Tag Elevation	Blue	5	——— 0
Surv_Point_Number	Survey - Point Tag Number	White	0	——— 0
Surv_Topo_Misc_Feature_Ex	Survey - Existing Topographic Miscell...	White	7	——— 0
Terr_Dirt_Ex	Terrain - Existing Dirt Area	Magenta	6	CONTINUOUS
Traf_Pole_Concrete_Ex	Traffic - Existing Concrete Street Lig...	Magenta	6	CONTINUOUS
Util_Manhole_Ex	Utility - Existing Manhole	Cyan	4	CONTINUOUS
Util_Pipe_STP_Ex	Utility - Existing Steel Pipe	Red	1	CONTINUOUS
Util_PullBox_Ex	Utility - Existing Pull Box	Magenta	6	CONTINUOUS
Wall Retaininq Conc Ex	Walls - Existing Concrete Retaininq Wall	Blue	5	ex-retwall-...

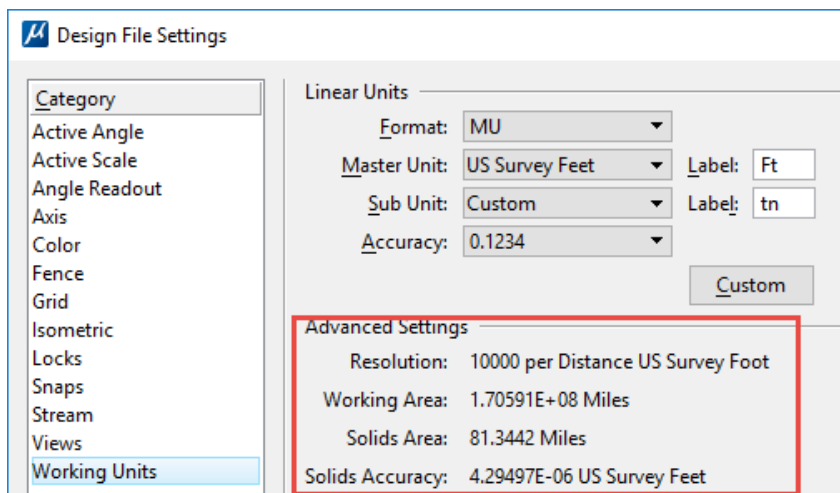
- This completes the remapping of levels from a DWG to DGN file. However, there is still a few more steps to ensure quality of the DGN meets our file standards.
- The current Design File Settings for the DGN were based on the DWG file, which needs to be corrected.



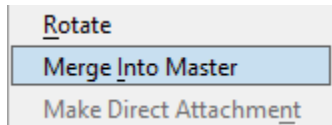
- You will correct this by creating a new seed file using the following seed file. For example, name it **Survey\_Final.dgn**



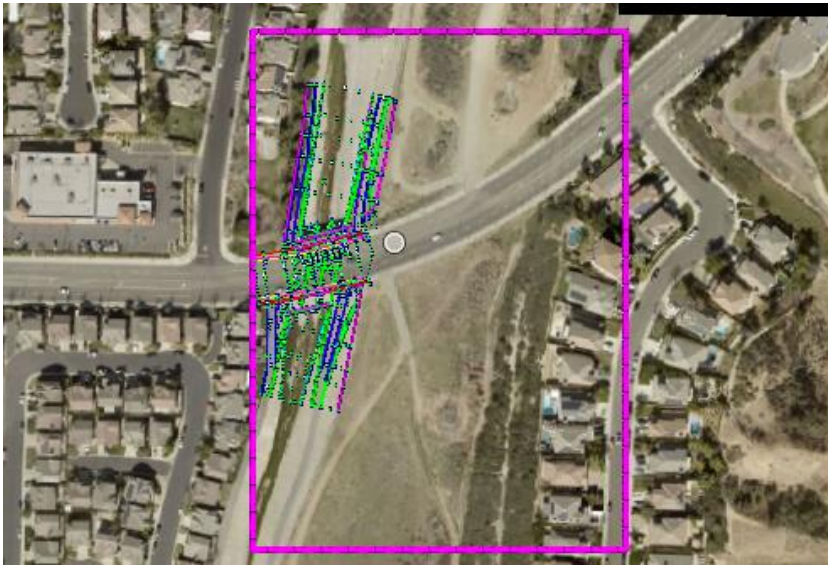
- This seed file has the desired Design File Settings resolution:



11. Reference the survey model from **Survey\_Draft.dgn** to the current model named **Survey\_Final.dgn** using *Coincident World*.
12. Next, in Reference Manager, merge the reference into the current model.



13. To check whether you were successful, attach an aerial image to see if the survey lines up with the aerial. It should look like this

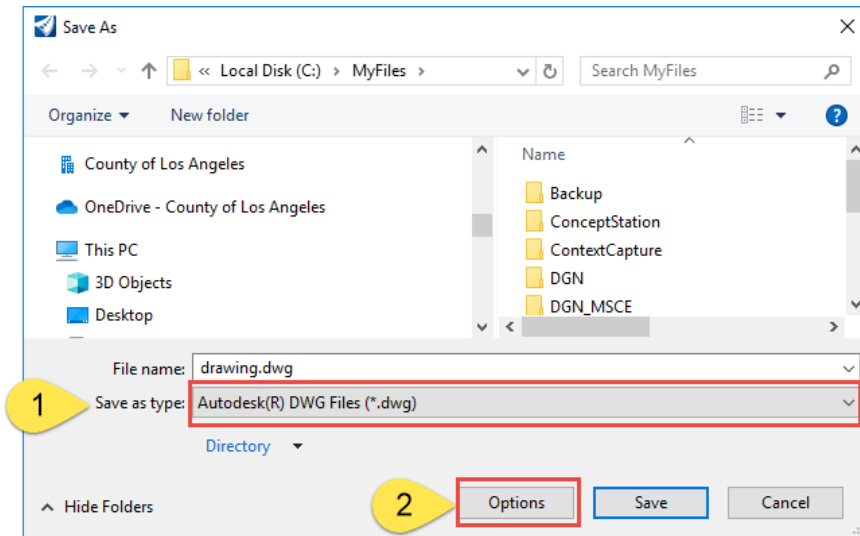


14. Detach the aerial.
15. Save the current file **Survey\_Final.dgn**.
16. This completes this exercise.

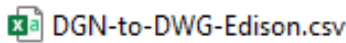
## Example 2: Remapping Levels from DGN to DWG (SoCal Edison Projects)

DGN-to-DWG-Edison.csv – This is used when saving a DGN file to DWG format and remapping Public Works levels to Southern California Edison levels.

To save a DGN Waterworks file as a DWG.



Select CSV remapping file.



Use these options.

