Converting Geographic Coordinate Systems

- 1. Find out the project's coordinate system and project datum factor.
- 2. In the MicroStation menu click on Tools, Geographic -> Select Geographic Coordinate System.



3. The Geographic Coordinate System (GCS) tools open.



4. Click the From Library tool.



5. Select the proper GCS for the project then click ok.

orary S	earch			
a 🗗 U	brary		Coordinate System	
G-9	Projected (northing, easting,)		Name	KY83-NE
8	Africa		Description	NAD83 Kentucky State P
8	P Antatica		Projection	Lambert Conformal Conic
	P-D Asia		Source	Calculated from KY83-N1
1	Central America and Caribbeans		Units	US Survey Foot
1		=	First Standard Parallel	38*58'00 0000"N
1	- Indian Ocean		Second Standard Paralle	37*58'00.0000"N
1	Mode East		Origin Longitude	84*15'00.0000''W
-	North America		Origin Latitude	37"30'00 0000"N
	E-Canada		False Easting	1640416.667
	Difference (Nexco)		False Northing	0
	E-D Unted States of America		Quadrant	Positive X and Y
	B C Nada		Minimum Longitude	87"00'00.0000"W
1 1	Hit Adika		Maximum Longitude	81*50'00.0000"W
11	H- Anzona		Minimum Latitude	37*20'00.0000"N
1 1	AKAISAS		Maximum Latitude	39*45'00.0000"N
	Calionia			
11			Datum	
	m C Delawara		Name	NAD83
	m C Ende		Description	North American Datam d
			Saure	US Defense Mercing An
	m C Harrat		Jourde	us verense mapping ray
			Ellipsoid	
	(B) (C) Brooks			
	() C Indexe		Name	GRS1980
			Description	Geodetic Reference Syst
	(D. C. Kanzas		Equatorial Radius	6378137
- 1 (1	C C Kastuda		Polar Radius	6356752.3141403478
	(A) KV.N., NAD27 Kentuchu State Planes, Nothern Zone, US East		Eccentricity	0.081819191042830641
	(A) KV.S. NAD27 Ketucky State Planes, Nothern Zone, US Foot		Source	Stem, L.E., Jan 1989, St.
11	(a) KV92E MAD22 Particular State Planes, Statient 2016, CS Pott (a) KV92E MAD92 Ventuclar State Zone SDCS IIS East (EDS: 1000)		Mantical Datum	
	KY83.NE - NADRI Kerturky State Flanet Muthem Zone 119 Feet	1	vertical Datum	
	KYR3-SE - NADR Kertucky Sate Planer Southern Zone, US Foot		Vertical Datum	North American Vertical
	FP SG 2246 - NA083 / Kentucky Noth #1(S)	-		
1 1 C				
0				

6. If you get the following dialog box, use these settings and click OK.



7. The GCS tool box now shows the correct zone for the project.



- 8. Check the view rotation and make sure it is unrotated.
- 9. If the project has a project datum factor, run the DGN2ArcGIS application.



instructions for this application can be found here.

10. Set the design file to Ky Single zone by clicking From Library from the Geographic Coordinate System tools.



11. Select the single zone coordinate system then click ok.

γ	Search		
PF	avoites	Coordinate System	
2 -	brary	Name	KY83F
9-6	Projected (northing, easting,)	Description	NAD83 Kentucky Single Zone
	Anca	Projection	Lambert Conformal Conic
1	Artaroca	Source	Mentor Software Client
1	Aga	Units	US Survey Foot
1	Central America and Canobeans	First Standard Parallel	38"40'00 0000"N
		Second Standard Parallel	37*05*00 0000"N
1	- Indian Ocean	Origin Longitude	85*45'00 0000"W
1	Note East	Ongin Labtude	36"20"00 0000"N
	North America	False Easting	4921250
	D United Martine Onter Martes)	False Northing	3280833 33333
	Onited Mexican States (Period)	Quadrant	Positive X and Y
	in Contract America	Minimum Longitude	87*00'00 0000"W
	m C Nada	Maximum Longitude	81*50'00 0000"W
		Minimum Latitude	35*00'00 0000"N
	m. D. Manana	Maximum Latitude	39*45'00.0000"N
	m D Ohode	Datum	
	B.C. Consection	Name	NAD83
	m Diana	Description	North American Datum of 198
	B.D. Barda	Sauce	US Defense Manning Agency
	D.D. Gaunia	- Contrast	our manager mapping reprint,
	B.D. Havel	Ellipsoid	
	m.D. Kabo	No.	0001000
	D.D. Brok	Name	GRS 1980
	(i) Indiana	Description	Geodetic Herence System o
	(H) lowa	Equatorial Radius	63/813/
	H-17 Kensas	Fotar Radius	0.00101010104000041
	E Kentucky	Becentricity	0.081819191042830641
	KY-N - NAD27 Kentucky State Planes, Northern Zone, US Foot	200106	otem, L.E., Jan 1969, State P
		Vertical Datum	
	KY83F - NAD83 Kentucky Single Zone SPCS US Feet (FIPS: 1600)	Vertical Datum	North American Vertical Datur
	W183-NF - NAD83 Kentucky State Planes, Northern Zone, US Foot	A START STATE IT	
	:		

12. Turn on the Reproject the data option then click ok.

Geographi	c Coordinate System Changed
٩	You have selected a different Geographic Coordinate System, KY83F, for R01800PLdgn. Are you correcting the Geographic Coordinate System, or reprojecting the data to a new Geographic Coordinate System?
0	Correcting the Geographic Coordinate System - do not reproject the data
	The units of Geographic Coordinate System KY83F are US Survey Foot, but the Storage Units in the model are Foot. Please review the units used in the source data for this design.
	The graphic elements are correctly drawn in Foot. The storage units should not be changed.
	Change the storage units in the model from Foot to US Survey Foot to match the Geographic Coordinate System. The physical size of graphic elements will be changed.
۲	Reproject the data to the new Geographic Coordinate System
	Cancel
	W.

13. Click the Fit View tool to see the design.