These instructions were created with:

### OpenBridge Designer CONNECT Edition Version 10.09.00.10

## **OpenBridge Designer for Starting Bridge Model**

OpenBridge Designer (OBD) will be used for creating the model through the OpenBridge Modeler (OBM) module. The Standalone File Groups option should be used. If the BIM Workflow option is used, then the model of the bridge is needed to send analysis data to the analytical module programs.

The following steps should be followed:

1. Launch OpenBridge Designer (OBD).



2. Select ProjectWise in OpenBridge Designer interface.



3. In the ProjectWise Log In window, select the Windows Domain or ProjectWise Authentication option. This is dependent on the version of ProjectWise Client being used. Toggle on Use Windows Single Sign-On for authentication and click Log in button.

🌆 ProjectWise	Log in	×
Datasource:	PWMain 💌	Log in
Authentication:	Windows Domain 💌	Cancel
User Name:	IDOTCENTRAL \ajeffer	
Password:		
	✓ Use Windows Single Sign-On for a	authentication
		//

If this is the first time logging in to this ProjectWise datasource on the computer you are using, respond **Yes** to the warning to create the Working Directory.

)j	ProjectW	ise	×
L	?	Working Directory c:\pw_work\pwmain\dmulho1 does not exist. Do you want to create it? Click No to browse for a different folder.	
l		Yes No Cancel	

4. Create an obdx file by selecting New File.



5. Use Select button and browse to Bridge folder for the correct Project Directory.

ive Document	As			×
General Folder Bridge Document Name: Description: File Name: Format:	New File.obdx		Select	Save Save to disk Cancel
Application:		Department: I		

 Enter a Document Name that matches the project directory number. Add a logical description and location of the project in Document Description field. Providing a good description with a location of the structure will help users in locating the proper file in a project. <u>Name</u> example: 0603003092.obdx <u>Description</u> examples: Polk Co. US 69 or Designs Polk Co. 223, 323 & Story Co. 323, 423, 724

Examples of obdx file Name and Description in ProjectWise:

Name	File Updated	File Size	Description
/ 7703504015.obdx	10/15/2021 9:52:01 AM	21,094 KB	Designs Polk 223, 323 and Story 323, 423, 724
Name	F	ile Updated	Description
🖉 🂯 (117)_Bridge Replacement-PPCB			
N 🖉 BRPrelim			
🖉 💟 Design Events			
NojectResources			
/ 🖉 7706901019.obdx	7/14/2021	7:02:38 AM	Polk Co. US 69
🧷 📇 ОВМ_77069117_DOT_0223_040681_Z08.dgn	10/5/2021 1	11:45:39 AM	Polk Co. Des. 223 Over Fourmile Creek

7. Select Application field and change from <none> to Bentley OpenBridge Designer for future recognition by ProjectWise for the associated application.

The Bentley OpenBridge Designer GenerativeComponents option should only be selected if working with a Generative Component in your model due to performance issues.

Application:		Department:		
<none></none>	-	<none></none>		-
Bentley OpenBridge Design	er		^	
Bentley OpenBridge Design	er Genera	tiveComponents		
1 Bentley OpenPlant PowerPl	D			
Bentley OpenRoads Design	er			
Bentley PondPack			¥	

- 8. Select Department field and change from <none> to Bridge Bridge Design.
- 9. Click Save button.
- 10. Create Standalone Group by selecting the Standalone workflow option. (Standalone workflow is the default selection, *currently Iowa DOT will <u>not</u> be using the BIM Workflow option*.)
- 11. Click the Add Group button (folder with green plus).

🖉 0603003092.obd - OpenBridge Designer	
File	
Standalone File Groups	
BIM Workflow     Standalone	
Add a group to begin	

12. Enter project name into following dialog when prompted.

🌆 Standalone Name	_		×
Benton US 30			
	OK	Ca	ncel
			-

- 13. Click OK button.
- 14. Check that the Modeling module icon is highlighted.
- 15. Launch OpenBridge Modeler (OBM) from the shortcut for applications listed in the lower portion.



16. When OpenBridge Modeler window opens, select New File.

The CONNECT workspace will load after creation of the new file.

# **OpenBridge Modeler CONNECT Edition**

Imperial Standards 🔹 Tutorial 1 🔹

#### **Recent Files**

You haven't opened any files recently. To browse for a file, start by clicking on Browse.



- 17. Select No Wizard in the New file dialog box.
- 18. Click OK button.

🖉 New		X
Document Creation Wizards	01/	÷
No Wizard Advanced Wizard	Cancel	
Make this wizard the default.		

19. The new dialog box displays.

lew		×
General		
Folder	Change	OK Cancel
Document Name: Description: File Name:	OBM-seed3d-Imperial	Apply
Application: MicroStation	Department:	
Source File:	ata\Bentley\OpenBridge Designer CONNECT Edition\OpenBri Seed Import	

20. Select Change... button in Folder and locate Project Directory in ProjectWise and select the Bridge folder to place the OBD/OBM files in.

lew		>
General		
Folder		OK
Bridge -	Change	Cancel
Document		Apply
Name:	OBM_06030209_DOT_216_700495_SPN	
Description:	OBM-seed3d-Imperial	
File Name:	OBM_06030209_DOT_216_700495_SPN.dgn	
Application:	Department:	
MicroStation	<pre> </pre>	
Source File:		
ntley\OpenB	idge Designer CONNECT Edition\OpenBridgeModeler\Configi	
	Seed Import	

21. Select Seed... button to locate the proper Seed File to use with the set Geographic Coordinate System/Zone (Iowa Regional Coordinate System IaRCS).

older						
💯 Seed						✓ ◆ ▶   □ □ □
ocument						
Name	^	File Updated	File Size Folder Id	Status (	Out to Desc	ription
Access			1013842			
Sheets			1013842			
			1010012			
c						>
ddress:						
escription:						
ile Name:						
pplication:	MicroStation					
Open document as	read-only					

22. Select Application field and change from MicroStation to Bentley OpenBridge Modeler.

ect	
older	
Cood	
U JEEU	
ocument	
Name	^
Name	
Access	
2 🖉 Excel	
/ Sheets	
OBM-see	d3d.dan
Ma OPM CC	REPORT DOT DENI# ELIMANO SON das
OBW_CC	
OBM_CC	RRRPPP_DOI_DSN#_FHWANO_SPS.dgn
OBM_CC	RRRPPP_DOT_DSN#_FHWANO_UD.dgn
OBM_CC	RRRP AutoCAD
OBM CC	RRRP Batchplot
DEM ORM CC	BCM MicroStation
OBM_CC	Bentley Architecture
OBW_CC	RRRP Bentley Building Electrical Systems (US)
OBM_CC	RRRP Bentley Building Mechanical Systems
OBM_CC	RRRP Bentley CivilStorm
OBM_CC	RRRP Bentley CulvertMaster
OBM CC	RRRP Bentley Digital Print Format(DPR)
	Bentley Electrical
UBM_CC	Bentley FlowMaster
OBM_CC	RRRP Bentley HAMMER
OBM_CC	RRRP Bentley Map
OBM_CC	RRRP Bentley Mechanical
OBM CC	RRRP Bentley OpenBridge Designer
Manue	Bentley OpenBridge Designer GenerativeComponents
<	Bentley OpenBridge Modeler
	Bentley OpenPlant PowerPID
	Bentley PondPack
AUULESS:	Bentley PondPack V8i
escription:	Bentley PowerCivil
read poor i	Bentley PowerMap
ile Name:	Bentley PowerMap Held
ing i ranne i	Bentley SewerCAD
oplication	

23. Browse to the proper Seed File to use with the set Geographic Coordinate System/Zone (Iowa Regional Coordinate System, IaRCS).

The Seed files are located at: PWMain\Documents\IowaDOTStandardsConnect\Configuration\Organization-Civil\IowaDOT\_Standards\Seed\

ect								
older								
2 Seed							~ 🔶	
ocument	~							_
Name		File Updated	File Size	Folder Id	Status	Out to	Description	
Access				1013842				
Excel				1013842				
Sheets				1013842				
OBM-seed3	d.dgn	3/13/2020 2:23:09 PM	96 KB	1013842	Checked In		OBM-see	
	RPPP_DOT_DSN#_FHWANO_SPN.dgn	10/7/2021 1:35:02 PM	106 KB	1013842	Checked In		OBM_CC	
OBM_CCRR	RPPP_DOT_DSN#_FHWANO_SPS.dgn	10/7/2021 1:35:01 PM	106 KB	1013842	Checked In		OBM_CC	
OBM_CCRR	RPPP_DOT_DSN#_FHWANO_UD.dgn	10/7/2021 1:34:49 PM	105 KB	1013842	Checked In		OBM_CC	
OBM_CCRR	RPPP_DOT_DSN#_FHWANO_Z01.dgn	10/7/2021 1:35:00 PM	108 KB	1013842	Checked In		OBM_CC	
OBM_CCRR	RPPP_DOT_DSN#_FHWANO_Z02.dgn	10/7/2021 1:34:59 PM	108 KB	1013842	Checked In		OBM_CC	
OBM_CCRR	RPPP_DOT_DSN#_FHWANO_Z03.dgn	10/7/2021 1:34:59 PM	108 KB	1013842	Checked In		OBM_CC	
OBM_CCRR	RPPP_DOT_DSN#_FHWANO_Z04.dgn	10/7/2021 1:34:58 PM	108 KB	1013842	Checked In		OBM_CC	
OBM_CCRR	RPPP_DOT_DSN#_FHWANO_Z05.dgn	10/7/2021 1:34:57 PM	108 KB	1013842	Checked In		OBM_CC	
OBM_CCRR	RPPP_DOT_DSN#_FHWANO_Z06.dgn	10/7/2021 1:34:56 PM	108 KB	1013842	Checked In		OBM_CC	
OBM_CCRR	RPPP_DOI_DSN#_FHWANO_Z07.dgn	10/7/2021 1:34:55 PM	108 KB	1013842	Checked In		OBM_CC	
OBM_CCRR	RPPP_DOI_DSN#_FHWANO_Z08.dgn	10/7/2021 1:34:54 PM	108 KB	1013842	Checked In		OBM_CC	
OBM_CCRR	RPPP_DOI_DSN#_FHWANO_Z09.dgn	10/7/2021 1:34:53 PM	108 KB	1013842	Checked In		OBM_CC	
OBM_CCRR	RPPP_DOT_DSN#_FHWANO_Z10.dgn	10/7/2021 1:34:52 PM	108 KB	1013842	Checked In		OBM_CC	
OBM_CCRR	RPPP_DOT_DSN#_FHWANO_Z11.dgn	10/7/2021 1:34:51 PM	108 KB	1013842	Checked In		OBM_CC	
OBM_CCRR	RPPP_DOT_DSN#_FHWANO_Z12.dgn	10/7/2021 1:34:50 PM	108 KB	1013842	Checked In		OBM_CC	
OBM_CCRR	RPPP_DOT_DSN#_FHWANO_Z13.dgn	10/7/2021 1:34:49 PM	108 KB	1013842	Checked In		OBM_CC	
<		10/2/0001 / 00/001	100.00		a		~ ~	
	nw:\\ntPwInt1.dot.int.lan:PWMain\Documents\Tr	owaDOTStandardsConnect\Configurat	tion\Organiza	tion-Civil\Tov	aDOT Standard	Is\Seed\OBN	1 CCRRRPPP DOT	DSN# FHWANC
ddress:								
ddress: escription:	OBM_CCRRRPPP_DOT_DSN#_FHWANO_SPN.dg	jn	OBM_CCRRRPPP DOT DSN# FHWANO SPN.don					
ddress: escription: ile Name:	OBM_CCRRRPPP_DOT_DSN#_FHWANO_SPN.dg OBM_CCRRRPPP_DOT_DSN#_FHWANO_SPN.dg	gn						

## 24. Select Open button.

	PPP_DOT_DSN#_FHWANO_Z03.dgn	10/7/2021 1:34:59 PM 108	KB 1013842	Checked In	OBM_CC
OBM_CCRRR	PPP_DOT_DSN#_FHWANO_Z04.dgn	10/7/2021 1:34:58 PM 108	KB 1013842	Checked In	OBM_CC
CCRRR OBM_CCRRR	PPP_DOT_DSN#_EHWANO_705.dan	10/7/2021 1:34:57 PM 108	KB 1013842	Checked In	OBM_CC
CCRRR OBM_CCRRR	PPP_DOT_DSN#_ ProjectWise		× 1013842	Checked In	OBM_CC
CCRRR OBM_CCRRR	PPP_DOT_DSN#		1013842	Checked In	OBM_CC
CCRRR OBM_CCRRR	PPP_DOT_DSN#	PROPER DOT DOWN FURMANO 700 days in	1013842	Checked In	OBM_CC
CCRRR OBM_CCRRR	PPP_DOT_DSN# read only. Would y	ou like to open it anyway?	1013842	Checked In	OBM_CC
OBM_CCRRR	PPP_DOT_DSN#		1013842	Checked In	OBM_CC
OBM_CCRRR	PPP_DOT_DSN#		1013842	Checked In	OBM_CC
OBM_CCRRR	PPP_DOT_DSN#	Yes No	1013842	Checked In	OBM_CC
OBM CCRRR	PPP_DOT_DSN#		1013842	Checked In	OBM_CC
					>
iss:	pw:\\ntPwInt1.dot.int.lan:PWMain\Documents\/	waDOTStandardsConnect\Configuration\Orga	ization-Civil\Iow	aDOT_Standards\See	Alobm_ccrrrppp_dot_dsn#_fhwan
iption:	pw:\\ntPwInt1.dot.int.lan:PWMain\Documents\G OBM_CCRRRPPP_DOT_DSN#_FHWANO_208.dg	waDOTStandardsConnect\Configuration\Organ	iization-Civil\Iow	aDOT_Standards\See	<pre> d\obm_ccrrRPPP_Dot_dsn#_FHWAN </pre>
ess: ption: ame:	pw:\\ntPwInt1.dot.int.lan:PWMain\Documents\I OBM_CCRRRPPP_DOT_DSN#_FHWANO_Z08.dg OBM_CCRRRPPP_DOT_DSN#_FHWANO_Z08.dg	waDOTStandardsConnect\Configuration\Organ n	ization-Civil\Iow	aDOT_Standards\See	d\OBM_CCRRRPPP_DOT_DSN#_FHWAN
iption: ame: ation:	pw:\\ntPwInt1.dot.int.lan:PWMain\Documents\I OBM_CCRRRPPP_DOT_DSN#_FHWANO_Z08.dg OBM_CCRRRPPP_DOT_DSN#_FHWANO_Z08.dg Bentley OpenBridge Modeler	waDOTStandardsConnect\Configuration\Orga n n	iization-Civil\Iow	aDOT_Standards\See	> dlobm_ccrrrppp_dot_dsn#_fHwan
iption: ame: ation:	pw:\\ntPwInt1.dot.int.lan:PWMain\Documents\I OBM_CCRRRPPP_DOT_DSN#_FHWANO_Z08.dg OBM_CCRRRPPP_DOT_DSN#_FHWANO_Z08.dg Bentley OpenBridge Modeler	waDOTStandardsConnect\Configuration\Orga n n	ization-Civil\Iow	aDOT_Standards\See	>
iption: ame: ation:	pw:\\ntPwInt1.dot.int.lan:PWMain\Documents\I OBM_CCRRRPPP_DOT_DSN#_FHWANO_Z08.dg OBM_CCRRRPPP_DOT_DSN#_FHWANO_Z08.dg Bentley OpenBridge Modeler	waDOTStandardsConnect\Configuration\Orga n n	iization-Civil\Iow	aDOT_Standards\See	>
ss: iption: ame: ation: xen document as m	pw:\\ntPwInt1.dot.int.lan:PWMain\Documents\Ic OBM_CCRRRPPP_DOT_DSN#_FHWANO_Z08.dc OBM_CCRRRPPP_DOT_DSN#_FHWANO_Z08.dc Bentley OpenBridge Modeler ead-only	waDOTStandardsConnect\Configuration\Organ n n	iization-Civil\Iow	aDOT_Standards\See	>

25. Select Yes button.

26. The new dialog box displays.

lew		×
General		
Folder		ОК
Bridge -	Change	Cancel
Document		Apply
Name:	OBM_CCRRRPPP_DOT_DSN#_FHWANO_Z08.dgr	]
Description:	OBM_CCRRRPPP_DOT_DSN#_FHWANO_Z08.dgn	
File Name:	OBM_CCRRRPPP_DOT_DSN#_FHWANO_Z08.dgn	
Application:	Department:	
Bentley Open	Bridge Modeler V <none> V</none>	/
Source Docum	ent:	
OBM_CCRRR	PPP_DOT_DSN#_FHWANO_Z08.dgn - OBM_CCRRRPPP_DC	D
	Seed Import	

27. Change the name of the file in Name field and add a proper description in Description field. Providing a good description with a location of the structure will help users in locating the proper file in a project.

#### Name: OBM\_CCRRRPPP\_DOT\_DSN#\_FHWANO\_Z08.dgn

**OBM** = Designates this as an OpenBridge Modeler file.

**CCRRRPPP** = County (CCC) Route (RRR) Paren (PPP) from the Project Number.

**DOT** = Signifies entity responsible for creation of model (DOT = Iowa DOT). If the project is created by a Consultant, then DOT would be replaced with the Consultants abbreviated name.

**DSN#** = Four-digit Design Number of structure.

**FHWANO** = The six-digit FHWA Number.

Name Example: OBM\_77069117\_DOT\_0223\_040681\_Z08.dgn Description Example: Polk Co. Des. 223 Over Fourmile Creek Example listing of files.

Name	File Updated	Description
ℤ <sup>™</sup> (245)_Bridge-Unspecified		
ℤ <sup>™</sup> BRPrelim		
🖉 💟 Design Events		
NojectResources		
208.dgn 🖉 🖉 🖉 🖉	10/6/2021 2:22:19 PM	Project Overview Polk-Story
/ 1703504015.obdx	10/15/2021 9:52:01 AM	Designs Polk 223, 323 and Story 323, 423, 724
208.dgn 277035245_DOT_0423_040791_Z08.dgn	10/15/2021 9:51:40 AM	NE 126TH AVE (ELKHART INTERCHANGE) BRIDGE
Z GBM_77035246_DOT_0323_041871_Z08.dgn	6/23/2021 1:19:19 PM	NE 142ND AVE OVER I-35
Z GBM_77035305_DOT_0724_041891_Z08.dgn	6/23/2021 1:04:45 PM	NE 158TH AVE OVER I-35
Z GBM_85035269_DOT_0323_049141_Z08.dgn	6/23/2021 12:41:40 PM	315TH ST BRIDGE OVER I-35
OBM_85035284_DOT_0223_049011_Z08.dgn	6/23/2021 1:10:56 PM	IA 210 OVER I-35

- 28. Select Application field and change from MicroStation to Bentley OpenBridge Modeler.
- 29. Select Department field and change from <none> to Bridge Bridge Design.
- 30. Click OK button.
- 31. Click Yes button for the configuration Alert and restart.

📶 Ale	t ×
?	OpenBridge Modeler must be restarted to load the new configuration. Do you want to restart now?
	<u>Y</u> es <u>N</u> o

**Note:** Steps 16 -30 can be skipped if the file is created using Copy Seed. Refer to <u>CONNECT Seed Files and Naming Convention</u>

- 32. When OpenBridge Modeler completes loading, activate the OpenBridge Modeling workflow from the pick list in the upper left corner if it is not already active.
- 33. Reference the geometry and terrain files needed for the location of the bridge. Always use Coincident World orientation when referencing models.

GEO\_ prefix named files are located at Design/CADD\_Files/Geometry. This contains alignments and profiles for the project.

TRN\_ prefix named files are located at Design/CADD\_Files/Terrains. This contains any terrain models for the project.

Documents					
Folder 💯 Geometry				~ 🔶 🚺	8-8- 8-8- 8-8- 8-8- 8-8-
A R					~
Name			Folder Id	File Size Status	
🖉 💟 GPK			1020475		
GEO_ML030_06	030087.dgn		1020475	637 KB Check	
GEO_MLREV_06	030087.dgn		1020475	220 KB Check	
GEO_RMPA021_	_06030087.dgn		1020475	192 KB Check	
GEO_RMPB021_	_06030087.dgn		1020475	192 KB Check	
GEO_RMPC021	_06030087.dgn		1020475	192 KB Check	
GEO_RMPD021	_06030087.dgn		1020475	192 KB Check	
GEO_SUR021_06	5030087.dgn		1020475	192 KB Check	
GEO_SUR030_00	3030087.dgn		1020475	407 KB Check	
<				>	
Application:	All Applications				
Extension:	*.dgn;*.dwg;*.dxf				
elected Documents		Add	temove		
Name			Folder Id	File Size Status	Out to
ML030 06	030087.dgn		1020475	637 KB Checked In	
< Attachment method:	Interactive	_			
۲ مراجع م مراجع مراجع مراج	Interactive				

Attach Reference							
ect							
Documents							
Folder 💯 Terrains					`	/ 🔶 🔰 🗄	
M 🔎							~
Name				Folder Id	File Size	Status	
M TRN_SS2_ML030_0	6030087SPN.dgn			1020465	29,653 KB	Check	
<						>	
Application:	All Applications						~
Extension:	*.dgn;*.dwg;*.dxf						~
		Add	Remove				
Selected Documents							
Name				Folder Id	File Size	Status	Out to
TRN_SS2_ML030_0	6030087SPN.dgn			1020465	29,653 KB	Checked In	
<		_					>
Attachment methods	Interactive						
Attaciment methou:	Interactive						V
						OK	Can

Reference At	ttachme	ent Properties for\GEO_ML030_0603	30087.dgn	×		
File Name:	PW W	ORKDIR:d1020475\GEO_ML030_06030	087.dgn			
Full Path:	\pwr	main\bkloss\d1020475\GEO_ML030_0	6030087.dan			
Model:	Default	t		-		
Logical Name:						
Description:	Master	r Model				
Orientation						
View		Description				
Coincident		Aligned with Master Fi	le			
Coincident	- World	Global Origin aligned	with Master Fil	e		
🗄 Standard Vie	ews					
Saved Views	s (none)					
Named Bou	indaries	(none)				
Detail	l Scale:	Full Size 1 = 1	•			
Scale (Maste	er:Ref):	1.000000000 : 1.000000000	-			
Named	Group:		•			
Re	vision:		•			
	Level:		•			
Nested Attach	ments:	Live Nesting	<ul> <li>Nesting D</li> </ul>	epth: 0		
Display Ove	errides:	Allow	•	-		
New Level D	)isplay:	Use MS REF NEWLEVELDISPLAY Co	<b>Y</b>			
Global LineStyle	Scale:	Master	• •			
Synchronize	e View:	Volume Only	v			
		· - · - · · · · · · · · · · · · · · · ·				
Toggles						
	<u>.</u>	2 <b>k</b> (= :::: r % X == e F				
		<u>O</u> K		Cancel		
References (2 of	f 2 unique	e, 2 displayed)				
Tools Properties						
E • 🏠 🔊		*****	P 0 x	Hilite Mode: Bour	ndaries 🔻	
Slot 🏴 🗋 F	ile Name		Model	Description	Logical	Orientation

		1.1	1.2.1									
<u>T</u> ools	<u>P</u> roperti	es										
•	隆 👂	< 👌 🕺 🌳	le 🖻 🗗 🕯	) 🕞 🐔 🛱	🗄 🛈 🛪 E	lilite Mode: Boundaries	-					
Slot	1	File Name			Model	Description	Logical	Orientation	Presentation	• 🎜	k	<u>(</u>
1		PW_WORKDIR:d	1020475\GEO_ML03	_06030087.dgn	Default	Master Model		Coincident - World	Wireframe	$\checkmark$	×.	
2		PW_WORKDIR:d	I\TRN_SS2_ML030_	06030087SPN.dgn	Default	Master Model		Coincident - World	Wireframe	* *	*	
Scale	1.0000000	00	: 1.00000000	Rotation	1	Offset X		Υ	Z			
• ~	/ 🕨 🖪	1:1 x x x 1	16 9 0 <u>A</u> 9	🔒 Nested Atta	chments:	▼ Nesting	Depth:	Display Overrides:	~			
New L	evel Displ	ay:	▼ Georeference	ed:	*							

The referenced GEO file should always have Display on for bridge modeling. Turning this reference off may cause problems with the function of the model.

- 34. Fit the views to see the resulting geometry and terrain.
- 35. To begin modeling the bridge, select Bridge Wizard in the Bridge Setup tab of the ribbon.



36.	Enter fields for the	specifics of th	ne bridge to	place within	the model.
•••		op 000.000 01 0			

🌈 Bridge Wizard		×
Geometry Materials		
Bridge Name	Br 1	
Bridge Type	Beam Slab (P/S or RC Concrete Girders)	~
Alignment	Create new alignment	~
Bridge Start Station	1+00.0000	
Alignment Advanced C	Options	
Alignment Start Station	0+00.0000	
Start X	0.000	
Start Y	0.000	
Elevation (Z)	100.000	
Start Tangent Direction	0.0000°	
Radius	0.000	
Hand	Clockwise	~
Deck Template	Slab w/ constraints	
O Custom Deck		
Spans	80 2@100 70	
Support Skew Angles	0°	
Beam Spacing	5@8	
Beam Template	Type IV	
Abutment Template	3 Lane - 40ft	
Pier Template	Pile_Bent_Batter	
<ul> <li>Left Barrier Template</li> </ul>	32" F SHAPE L	
Right Barrier Template	32" F SHAPE R	

- Enter Bridge Name with County and Design Number. Example Polk Des. 223.
- Select Bridge Type for the specific bridge.

Bridge Type	Beam Slab (P/S or RC Concrete Girders)
Alignment	Beam Slab (P/S or RC Concrete Girders)
Deidag Chart Station	Beam Slab (Steel Girders)
Shoge Start Station	CIP Concrete Box
<ul> <li>Alignment Advanced C</li> </ul>	RC Slab

• Select Alignment from the available alignments in the attached referenced GEO file.

• Set advanced options, if needed.

$(\frown)$	Alignment Advan	ced Options
\ <i>J</i>		

-	
Alignment Start Station	0+00.0000
Start X	0.000
Start Y	0.000
Elevation (Z)	100.000
Start Tangent Direction	0.0000°
Radius	0.000
Hand	Clockwise

- Select Deck Template from the template library.
- Enter Span lengths.
- Enter Skew Angle for support lines.
- Enter Beam Spacing.
- Select Beam Template from the template library.
- Select Abutment Template from the template library. Abutments available are not Iowa specific. The model will be modified to use a Custom Abutment.
- Select Pier Template from the template library.
- Select Barrier Template from the template library for both left and right barriers.

#### 37. Click OK button.

The model will be placed at the appropriate location. Proceed with any modifications of various components.

Additional information on modifications will be added in the future.