CONNECT Levels

The levels used for CONNECT workspace projects are provided in various level libraries. The main library for Bridge projects is IowaDOT_Bridge_Features_Levels_Elem Temp Imperial.dgnlib.

Placement of elements on levels is controlled by selection of features in several instances. For additional information refer to CONNECT Feature Definitions.

The levels are shown below through views of Level Manager organized by application and use. The name, color, style, and weight of the levels are provided.

OpenBridge Modeler levels for decorations for placement or information for the bridge model features. The text levels have the plot attribute turned off.

Name			
OBD_D_ApproachRefLine_text	0	0	0
OBD_D_ApproachSlab_Outline	51	0	6
OBD_D_Barrier_Outline	131	0	6
OBD_D_Beam_End	233	0	2
OBD_D_Beam_Layout	233	7	1
OBD_D_Beam_Layout_Text	233	0	0
OBD_D_Beam_PL_Offset	64	2	0
OBD_D_Bearing_Group	89	7	4
OBD_D_Bridge_Decorations	0	0	0
OBD_D_Cap	13	0	8
OBD_D_Column	13	0	8
OBD_D_CrossFrames	57	0	4
OBD_D_Deck_Outline	3	0	8
OBD_D_Diaphragm_Concrete	51	0	8
OBD_D_Field_splice	60	0	0
OBD_D_Footing	13	0	8
OBD_D_Piles	57	0	4
OBD_D_Piles_Arrow_Markers	21	0	0
OBD_D_Reports_Lines	36	0	0
OBD_D_Segmental_Deck_Outline	51	0	8
OBD_D_Segmental_Lines_Text	0	0	0
OBD_D_Shear_studs	20	0	4
OBD_D_SleeperSlab	59	0	6
OBD_D_Stiffeners	57	0	2
OBD_D_Sub	99	0	8
OBD_D_Sub_Text	146	0	0
OBD_D_Super	83	0	8
OBD_D_Super_Text	135	0	0
OBD_D_SupportLines_Text	182	0	0
OBD_D_Unit_Label	224	0	0
OBD_D_WingWall	13	2	0
OBD_D_WingWall_Footing	13	0	8
OBD_D_WingWall_Piles	57	0	8

OpenBridge Modeler levels for modeling bridge features. These levels have the plot attribute turned on except level OBD_Construction_Line.

Name			
Auxiliary	2	0	2
BridgeExistingStructure	233	0	1
BridgeSubstructure	1	0	8
BridgeSuperStructure	3	0	8
ConcreteRustication	3	0	1
Dirt	4	0	4
FlowableMortar	217	0	4
FlowageEasement	5	0	1
Neoprene	7	0	3
OBD_Abutment	15	0	8
OBD_Approach_Ref_Line	0	0	0
OBD_Approach_Slab	174	0	0
OBD_Barrier	206	0	6
OBD_Beam	3	0	8
OBD_Bearing_Seats	64	0	6
OBD_Bearings	1	0	4
OBD_Bridge_Piling	1	0	4
OBD_CheekWall	15	0	6
OBD_Construction_Line	**0**	**0**	**1**
OBD_CrossFrames	1	0	4
OBD_Deck	3	0	8
OBD_Diaphragm_Concrete	174	0	8
OBD_Excavation	231	3	4
OBD_FC_ConstructionLines	1	0	0
OBD_Field_Splice	7	0	4
OBD_Filler_Plate	1	0	4
OBD_Footings	15	0	8
OBD_Girder	1	0	4
OBD_GroutPad	206	0	6
OBD_Haunch	206	0	8
OBD_Pier_Cap	15	0	8
OBD_Pier_Column	15	0	8
OBD_Point	4	0	0
OBD_Shear_Stud	1	0	4
OBD_Sleeper_Slab	174	0	6
OBD_Stiffeners	1	0	4
OBD_Struts	1	0	4
OBD_Support_Line	5	4	0
OBD_Tendon	209	0	3
OBD_Tendon_Centerline	0	3	1
OBD_Tub girder	3	0	0
OBD_Tubs	3	0	0
OBD_Wet Joint	48	0	0
OBD_Wingwalls	15	0	8
PVC	1	0	3

ProStructures levels for elements modeled in ProStructures and rebar placement.
Multiple rebar placement guideline levels are provided for each type of component rebar.

Name			
PC_ABUT	13	0	8
PC_APPROACH	35	0	8
PC_BARRIER	131	0	6
PC_BEAM	19	0	8
PC_BEARING	89	0	2
PC_COLUMN	13	0	8
PC_CONCRETE	3	0	8
PC_CONCRETE_MISC	3	0	8
PC_COVER	32	0	0
PC_CULVERT_CIP	35	0	8
PC_CULVERT_PC	46	0	8
PC_DECK	3	0	8
PC_DIAPHRAGM_CONC	51	0	8
PC_FTG	13	0	8
PC_MARKER	6	0	0
PC_OBJECT	2	0	0
PC_PADFOOTING	13	0	8
PC_PIER_CAP	13	0	8
PC_PIER_COLUMN	13	0	8
PC_REBAR	12	0	3
PC_REBAR GL	16	4	0
PC_REBAR GL 1	16	4	0
PC_REBAR GL 2	16	4	0
PC_REBAR GL 3	16	4	0
PC_REBAR GL 4	16	4	0
PC_REBAR GL 5	16	4	0
PC_REBAR_ABUT	28	0	3
PC_REBAR_ABUT GL	16	4	0
PC_REBAR_ABUT GL 1	16	4	0
PC_REBAR_ABUT GL 2	16	4	0
PC_REBAR_ABUT GL 3	16	4	0
PC_REBAR_ABUT GL 4	16	4	0
PC_REBAR_ABUT GL 5	16	4	0
PC_REBAR_APPROACH	82	0	3
PC_REBAR_APPROACH GL	16	4	0
PC_REBAR_APPROACH GL 1	16	4	0
PC_REBAR_APPROACH GL 2	16	4	0
PC_REBAR_APPROACH GL 3	16	4	0
PC_REBAR_APPROACH GL 4	16	4	0
PC_REBAR_APPROACH GL 5	16	4	0

Name			
PC_REBAR_BARRIER	34	0	3
PC_REBAR_BARRIER GL	16	4	0
PC_REBAR_BARRIER GL 1	16	4	0
PC_REBAR_BARRIER GL 2	16	4	0
PC_REBAR_BARRIER GL 3	16	4	0
PC_REBAR_BARRIER GL 4	16	4	0
PC_REBAR_BARRIER GL 5	16	4	0
PC_REBAR_BEAM	60	0	3
PC_REBAR_BEAM GL	16	4	0
PC_REBAR_BEAM GL 1	16	4	0
PC_REBAR_BEAM GL 2	16	4	0
PC_REBAR_BEAM GL 3	16	4	0
PC_REBAR_BEAM GL 4	16	4	0
PC_REBAR_BEAM GL 5	16	4	0
PC_REBAR_CULVERT_CIP	12	0	3
PC_REBAR_CULVERT_CIP GL	16	4	0
PC_REBAR_CULVERT_CIP GL 1	16	4	0
PC_REBAR_CULVERT_CIP GL 2	16	4	0
PC_REBAR_CULVERT_CIP GL 3	16	4	0
PC_REBAR_CULVERT_CIP GL 4	16	4	0
PC_REBAR_CULVERT_CIP GL 5	16	4	0
PC_REBAR_CULVERT_PC	12	0	3
PC_REBAR_CULVERT_PC GL	16	4	0
PC_REBAR_CULVERT_PC GL 1	16	4	0
PC_REBAR_CULVERT_PC GL 2	16	4	0
PC_REBAR_CULVERT_PC GL 3	16	4	0
PC_REBAR_CULVERT_PC GL 4	16	4	0
PC_REBAR_CULVERT_PC GL 5	16	4	0
PC_REBAR_DECK	18	0	3
PC_REBAR_DECK GL	16	4	0
PC_REBAR_DECK GL 1	16	4	0
PC_REBAR_DECK GL 2	16	4	0
PC_REBAR_DECK GL 3	16	4	0
PC_REBAR_DECK GL 4	16	4	0
PC_REBAR_DECK GL 5	16	4	0
PC_REBAR_DIAPHRAGM	12	0	3
PC_REBAR_DIAPHRAGM GL	16	4	0
PC_REBAR_DIAPHRAGM GL 1	16	4	0
PC_REBAR_DIAPHRAGM GL 2	16	4	0
PC_REBAR_DIAPHRAGM GL 3	16	4	0
PC_REBAR_DIAPHRAGM GL 4	16	4	0
PC_REBAR_DIAPHRAGM GL 5	16	4	0
PC_REBAR_DOWELS	10	0	3
PC_REBAR_DOWELS GL	16	4	0
PC_REBAR_EPOXY	18	0	3
PC_REBAR_EPOXY GL	16	4	0

Name			
PC_REBAR_FOOTING	42	0	3
PC_REBAR_FOOTING GL	16	4	0
PC_REBAR_FOOTING GL 1	16	4	0
PC_REBAR_FOOTING GL 2	16	4	0
PC_REBAR_FOOTING GL 3	16	4	0
PC_REBAR_FOOTING GL 4	16	4	0
PC_REBAR_FOOTING GL 5	16	4	0
PC_REBAR_MISC	12	0	3
PC_REBAR_MISC GL	16	4	0
PC_REBAR_MISC GL 1	16	4	0
PC_REBAR_MISC GL 2	16	4	0
PC_REBAR_MISC GL 3	16	4	0
PC_REBAR_MISC GL 4	16	4	0
PC_REBAR_MISC GL 5	16	4	0
PC_REBAR_PIER_CAP	10	0	3
PC_REBAR_PIER_CAP GL	16	4	0
PC_REBAR_PIER_CAP GL 1	16	4	0
PC_REBAR_PIER_CAP GL 2	16	4	0
PC_REBAR_PIER_CAP GL 3	16	4	0
PC_REBAR_PIER_CAP GL 4	16	4	0
PC_REBAR_PIER_CAP GL 5	16	4	0
PC_REBAR_PIER_COL	26	0	3
PC_REBAR_PIER_COL GL	16	4	0
PC_REBAR_PIER_COL GL 1	16	4	0
PC_REBAR_PIER_COL GL 2	16	4	0
PC_REBAR_PIER_COL GL 3	16	4	0
PC_REBAR_PIER_COL GL 4	16	4	0
PC_REBAR_PIER_COL GL 5	16	4	0
PC_REBAR_PILE	12	0	3
PC_REBAR_PILE GL	16	4	0
PC_REBAR_PILE GL 1	16	4	0
PC_REBAR_PILE GL 2	16	4	0
PC_REBAR_PILE GL 3	16	4	0
PC_REBAR_PILE GL 4	16	4	0
PC_REBAR_PILE GL 5	16	4	0
PC_REBAR_STAINLESS	41	0	3
PC_REBAR_STAINLESS GL	16	4	0
PC_REBAR_STAINLESS GL 1	16	4	0
PC_REBAR_STAINLESS GL 2	16	4	0
PC_REBAR_STAINLESS GL 3	16	4	0
PC_REBAR_STAINLESS GL 4	16	4	0
PC_REBAR_STAINLESS GL 5	16	4	0
PC_REBAR_WALL	10	0	3
PC_REBAR_WALL GL	16	4	0
PC_REBAR_WALL GL 1	16	4	0
PC_REBAR_WALL GL 2	16	4	0
PC_REBAR_WALL GL 3	16	4	0
PC_REBAR_WALL GL 4	16	4	0
PC_REBAR_WALL GL 5	16	4	0

PC_REBAR_WINGWAL GL	16	4	0
PC_REBAR_WINGWAL GL 1	16	4	0
PC_REBAR_WINGWAL GL 2	16	4	0
PC_REBAR_WINGWAL GL 3	16	4	0
PC_REBAR_WINGWAL GL 4	16	4	0
PC_REBAR_WINGWAL GL 5	16	4	0
PC_REBAR_WINGWALL	28	0	3
PC_REPAIR_EXISTING	230	0	1
PC_REPAIR_REMOVAL	228	0	2
PC_REVISION_ANNOTATION	5	0	5
PC_SHADING	233	0	0
PC_SLAB	99	0	8
PC_STRIPFOOTING	115	0	8
PC_STRUCT_WALL	19	0	8
PC_WALL	13	0	8
PS_BOLT	57	0	2
PS_CONST	0	0	0
PS_DAWA	5	0	0
PS_DIM	0	0	0
PS_Elev_flag	0	0	0
PS_GIRDER	57	0	4
PS_HANDRAIL	62	0	4
PS_HATCH	3	0	0
PS_HIDDEN	2	3	0
PS_KOTE	4	0	0
PS_MID	5	7	0
PS_OBJECT	2	0	0
PS_PLATE	1	0	4
PS_POS	1	0	0
PS_RoofWall	5	0	0
PS_SHAPE	7	0	4
PS_SOLID	7	0	0
PS_TEXT	0	0	0
PS_WELD	1	0	4
PS_WORKFRAME	6	0	0

Additional levels used for CONNECT workspace projects are provided in IowaDOT_FeatureDefinitions_ElementTemplates_Annotation_Levels.dgnlib These are primarily for use with OpenRoad Designer processes.

These levels may be used for modeling or detailing structures also. Those listed below are levels more typically used for structure projects. This is not intended to be an all-inclusive list. Levels available that are logical for placement of various elements can be used. These levels have the plot attribute turned on.

Name			
Aluminum	194	0	4
BentoniteSlurry	197	0	4
BridgeSubstructureExisting	234	0	0
BridgeSubstructureProposed	3	0	0
BridgeSuperStructureExisting	234	0	0
BridgeSuperStructureProposed	3	0	0
BridgeTemporaryStructure	15	0	3
CulvertExisting	234	0	0
CulvertProposed	3	0	0
Joints	31	0	3
Removals	228	2	3
Revetment	206	0	1
Revisions	0	0	0
Steel	57	0	4
Timbers	6	0	4
WireMesh	71	0	3