

MDOT V8i CADD File Naming Standards

Road, Utilities, Right of Way, Hydrology and Landscape

Every design project at MDOT is identified by a Job Number. A MDOT Job Number has five or six numerical characters followed by a letter suffix indicating project phase. The Job Number is carried forth in the MicroStation file naming convention as the first five (or six) characters of the drawing name followed by a combination of numbers and letters representing road name, file type, and drawing sequence number. The Job Number suffix character is not included in the MicroStation drawing name.

All road, utilities, right of way, hydrology and landscape MicroStation drawings must have the standard file extension of dgn and must not contain any special character like @, #, &, * etc.

There are NO exceptions to these two rules.

The file naming convention shown below is a non-conclusive guide that applies to all road, utilities, right of way, hydrology and landscape drawings created by MDOT users or consultants developing plans for MDOT. The biggest change from the V8 file naming convention is that we now have the drawing name and sequence number included in the file name.

Option A road file naming structure:

123456_ name_ stadrawing.dgn

..Job Number

.....Roadway Name

.....Beginning Station & Drawing Type

.....File Extension

Option B road file naming structure:

123456_ name_ drawingXXX.dgn

..Job Number

.....Roadway Name

.....Drawing Type & Drawing Number

.....File Extension

Station Range and Drawing Type Explanation

The station range number is the beginning station on each sheet ... for example

Mainline I96 removal/construction/profile

123456_I96_100REM.DGN

123456_I96_100CON.DGN

123456_I96_100EBPROF.DGN

123456_I96_100WBPROF.DGN
123456_I96_125REM.DGN
123456_I96_125CON.DGN
123456_I96_125EBPROF.DGN
123456_I96_125WBPROF.DGN

Interchange ramp removal/construction/profile

123456_I96_RAMPA_100REM.DGN
123456_I96_RAMPA_100CON.DGN
123456_I96_RAMPA_100PROF.DGN

Maintaining traffic for the mainline

123456_I96_100MTSTG1.DGN
123456_I96_125MTSTG1.DGN
123456_I96_100MTSTG2.DGN
123456_I96_125MTSTG2.DGN

Drawing and Sequence Number Explanation

The drawing sequence number must start at 001 for the POB of each roadway ... for example:

Mainline I96 removal/construction/profile

123456_I96_REM001.DGN
123456_I96_CON001.DGN
123456_I96_EBPROF001.DGN
123456_I96_WBPROF001.DGN
123456_I96_REM002.DGN
123456_I96_CON002.DGN
123456_I96_EBPROF002.DGN
123456_I96_WBPROF002.DGN

Interchange ramp removal/construction/profile

123456_I96_RAMPA_REM001.DGN
123456_I96_RAMPA_CON001.DGN
123456_I96_RAMPA_PROF001.DGN

Maintaining traffic for the mainline

123456_I96_MTSTGA001.DGN
123456_I96_MTSTGA002.DGN
123456_I96_MTSTGB001.DGN
123456_I96_MTSTGB002.DGN

All road MicroStation Drawing files must use the file extension of dgn. The following non-conclusive file name list should be used as a guide:

Job No.	Drawing Name	Description	Full File Name
123456	TITLE	Title Sheet Part I	123456_I96_TITLE.dgn
123456	VICMAP	Vicinity Map	123456_I96_VICMAPXXX.dgn

123456	DRNVIC	Drainage Vicinity Map	123456_I96_DRNVICXXX.dgn
123456	TYP	Typical Cross Sections	123456_I96_TYPXXX.dgn
123456	MSCDET	Miscellaneous Details	123456_I96_MISDETXXX.dgn
123456	LEGEND	Legend Sheet	123456_I96_LEGENDXXX.dgn
123456	ALI	Alignment Sheet	123456_I96_ALIXXX.dgn
123456	REM	Removal	123456_I96_100REM.dgn 123456_I96_REM001.dgn
123456	CON	Construction	123456_I96_100CON.dgn 123456_I96_CON001.dgn
123456	DRAIN	Drainage	123456_I96_DRAINXXX.dgn
123456	WATER	Water main Sheet	123456_I96_100WATER.dgn 123456_I96_WATER001.dgn
123456	PLANPF	Plan and Profile	123456_I96_100PLANPF.dgn 123456_I96_PLANPF001.dgn
123456	SPPLAN	Split Plan Sheet	123456_I96_100SPPLAN.dgn 123456_I96_SPPLAN001.dgn
123456	PROF	Profile - Full	123456_I96_100EBPROF.dgn 123456_I96_EBPROF001.dgn
123456	WETLND	Wetland Mitigation	123456_I96_100WETLND.dgn 123456_I96_WETLND001.dgn
123456	REST	Rest Area	123456_I96_RESTXXX.dgn
123456	LNDSCP	Landscaping	123456_I96_LNDSCPXXX.dgn
123456	LNDDDET	Landscaping Details	123456_I96_LNDDDETXXX.dgn
123456	DETGRD	Detail Grades	123456_I96_DETGRDXXX.dgn
123456	MTVIC	Maintaining Traffic Vicinity Map	123456_I96_MTVICXXX.dgn
123456	MTDETR	Maintaining Traffic Detour Map	123456_I96_MTDETRXXX.dgn
123456	MTSTG#	Maintaining Traffic Stage # Plan Sheet	123456_I96_100MTSTG#.dgn 123456_I96_MTSTG#XXX.dgn
123456	MT#TYP	Maintaining Traffic Stage # Typical Cross Section	123456_I96_MT#TYPXXX.dgn
123456	MTSDET	Maintaining Traffic Special Details	123456_I96_MTSDETXXX.dgn
123456	SIGNAL	Signal Plans	123456_I96_SIGNALXXX.dgn
123456	PVMK	Permanent Pavement Marking Plans	123456_I96_PVMKXXX.dgn
123456	PSIGN	Permanent Signing Plans	123456_I96_PSIGNXXX.dgn
123456	UTIL	Utility Plans	123456_I96_UTILXXX.dgn
123456	SAN	Sanitary Plans	123456_I96_SANXXX.dgn
123456	ELEC	Electrical Plans	123456_I96_100ELEC.dgn 123456_I96_ELEC001.dgn
123456	BORING	Soil Boring Logs	123456_I96_BORINGXXX.dgn
123456	SPDET	Special Details	123456_I96_SPDETXXX.dgn

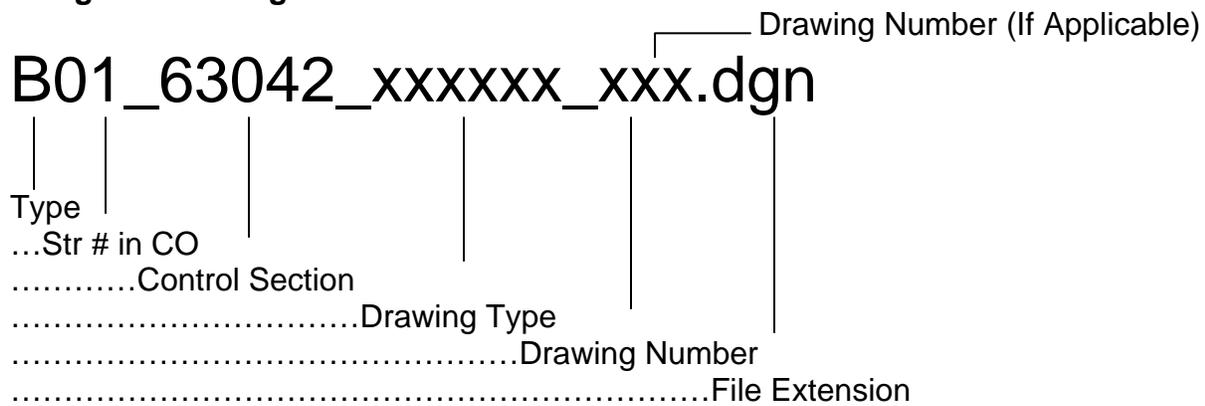
123456	PROJ	Project Information Sheet	123456_I96_PROJXXX.doc
123456	MSCQNT	Misc Quantities & Estimates Sheet (Word Document)	123456_I96_MSCQNT.doc
123456	MSCQNT	Misc Quantities & Estimates Sheet (MicroStation)	123456_I96_MSCQNT.dgn
123456	NOTE	Note Sheet (Word document)	123456_NOTE.doc
123456	NOTE	Note Sheet (MicroStation)	123456_NOTE.dgn
123456	SURVEY	Survey Information Sheet (Word Document)	123456_SURVEY_XXX.doc
123456	SURVEY	Survey Information Sheet (MicroStation)	123456_SURVEY_XXX.dgn

Bridge

Each county in Michigan is given a two digit number and is further broken down into sub sections known as Control Sections. Each bridge in Michigan is given a unique name that identifies the structure type and it's location within a Control Section. MDOT Bridge MicroStation file naming standards follows along the same idea by describing the bridge type and number, location within the county, drawing type and number (if applicable).

The following file naming convention shall apply to all bridge MicroStation drawings created by MDOT users and consultants developing plans for MDOT:

Bridge file naming structure:



Structure Type Designations

b01	bridge over waterway
c01	culvert
n01	structure for non-motorized vehicles
p01	pedestrian overpass
r01	railroad under roadway
s01	roadway over roadway
v01	pedestrian under highway
x01	railroad over highway
z01	miscellaneous

All bridge MicroStation Drawing files must use the file extension of dgn. The following non-conclusive file name list should be used as a guide:

Struct No.	Cont. Sec.	Drawing Type	Description	Full File Name
b01	63042	title	Title Sheet Part I	b01_63042_title_xxx.dgn
b01	63042	site	Site Sheet	b01_63042_site_xxx.dgn
b01	63042	boring	Soil Boring Sheet	b01_63042_boring_xxx.dgn
b01	63042	gpstr	Structure Sheet	b01_63042_gpstr_xxx.dgn
b01	63042	constg	Construction Staging Sheet	b01_63042_constg_xxx.dgn
b01	63042	exinfo	Ex Plan Sheets for Information and removal	b01_63042_exinfo_xxx.dgn
b01	63042	fioxxx	Ex Plan Sheets in Raster format	b01_63042_fioxxx_xxx.tif
b01	63042	pile	Pile Sheet	b01_63042_pile_xxx.dgn
b01	63042	culv	Culvert Sheet (Footing, Box, 3 sided)	b01_63042_culv_xxx.dgn
b01	63042	abut	Abutment Sheet	b01_63042_abut_xxx.dgn
b01	63042	abut	Abutment Sheet for multiple bridges	b01_63042-1_abut_xxx.dgn
b01	63042	wall	Retaining Wall Sheet	b01_63042_wall_xxx.dgn
b01	63042	pier	Pier Sheet	b01_63042_pier_xxx.dgn
b01	63042	bmpg	Beam Sheet – Plate Girder	b01_63042_bmpg_xxx.dgn
b01	63042	bmwf	Beam Sheet – Wide Flange	b01_63042_bmwf_xxx.dgn
b01	63042	bmpci	Beam Sheet – PCI	b01_63042_bmpci_xxx.dgn
b01	63042	bmbox	Beam Sheet – Box	b01_63042_bmbox_xxx.dgn
b01	63042	pin	Pin and Hanger Sheet	b01_63042_pin_xxx.dgn
b01	63042	expjt	Expansion Joint Sheet	b01_63042_expjt_xxx.dgn
b01	63042	deck	Superstructure Sheet	b01_63042_deck_xxx.dgn
b01	63042	deck	Superstructure Sheet for multiple bridges	b01_63042-2_deck_xxx.dgn
b01	63042	ovrlay	Overlay Sheet	b01_63042_ovrlay_xxx.dgn
b01	63042	barrpl	Barrier Replacement Sheet	b01_63042_barrpl_xxx.dgn
b01	63042	fence	Fencing Sheet	b01_63042_fence_xxx.dgn
b01	63042	screed	Slab and Screed Sheet	b01_63042_screed_xxx.dgn
b01	63042	tmpspt	Temporary Support Sheet	b01_63042_tmpspt_xxx.dgn
b01	63042	bmrpr	Beam Repair Sheet	b01_63042_bmrpr_xxx.dgn
b01	63042	reinf	Reinforcement Steel Sheet	b01_63042_reinf_xxx.dgn

Example: **b01_50013_abut.dgn** denotes a structure over a waterway that is the first structure in a specific area of Macomb County and the drawing is of the abutments.

Special file naming for multiple bridges with the same name

Drawings for two structures at the same location must be uniquely identified. For example, the designation in the Title Block could read: **S08-1 OF 58152** (East Bound) and **S08-2 OF 58152** (West Bound). The appropriate file names would be **s08_58152-1_deck.dgn** (East Bound – Superstructure Sheet) or **s08_58152-2_abut.dgn** (West Bound – Abutment Sheet)

Drawing Numbers

The implementation of Drawing Numbers is a brand new way to uniquely identify drawings or raster images of the same type and incorporate the drawing name in the file

name. The Drawing Name box is in the lower right area of the title block and contains three six character data fields. You can use all three or just one but only add up to six characters to the DGN file name.

Example: **b01_63042_exinfo.dgn** may hold several raster image attachments. Rename each raster image fio001.tif fio002.tif fio003.tif and so on. After raster attachment and sheet placement add the respective Drawing Name **FIO001 FIO002 FIO003**. **This will help you organize the plot set in the batch print utility.**

Note for Future Plan Set Page Numbering: We are very close to implementing the eProposal style of PDF page numbering. The PDF footer technique that would be done at the end of the project – would not be done in MicroStation. To keep your plan set organized you would need to use one of the drawing number fields to sequentially name/number the drawings. For example: brg999 or br9999. This future change will exploit the need to utilize the Drawing Number area for proper plan set alignment.

Contact Information for MDOT File Name and Level Standards:

Steve Driver for Road drivers@michigan.gov (517) 373-1712

Jeff Williams for Bridge williamsj4@michigan.gov (517) 241-4212