

HYDRAULIC DETAIL SHEETS

Contents

CONTENTS	1
OVERVIEW	2
Process Provenance	2
STATEMENT OF NEED	2
REFERENCES	2
PROCESS DESCRIPTION AND EXAMPLES	3
Section I. Create Hydraulic Detail Sheet	3
Procedure – Create Detail Sheet using Manual Process	3
Procedure – Create Detail Sheet using Create DGNs Macro.....	4
Section II. Copy Detail Standard Drawings into Sheets.....	6
Procedure – Attach Hydraulics Standard Drawings	6
Section III. Updating the Detail Sheet Title Block	7
Procedure – Updating Detail Sheet Title Block Project Information	7
Procedure – Updating Detail Sheet Title Block Design Block.....	8

Overview

This document provides the process for developing hydraulic detail sheets and placing standard drawings into the sheet.

Process Provenance

- Date of development: *2/22/2022*
- Revision date: *N/A*
- Application/Tool(s): *MicroStation V8i SS10 / Power GEOPAK V8i SS10*
- Version(s): *08.11.09.916 / 08.11.09.918*
- Environment(s): *OpenRoads (Enhanced) Workspace*
- Author: [MDT EngOps Workflow Steering Committee](#)

Statement of Need

A user will learn how to develop hydraulic detail sheets and properly use standard drawing files delivered in the workspace.

References

[Consultant Workspace Installation Instructions](#)

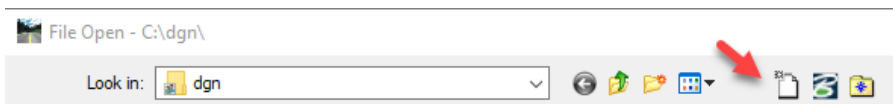
[Consultant Workspace Update Instructions](#)

Process Description and Examples

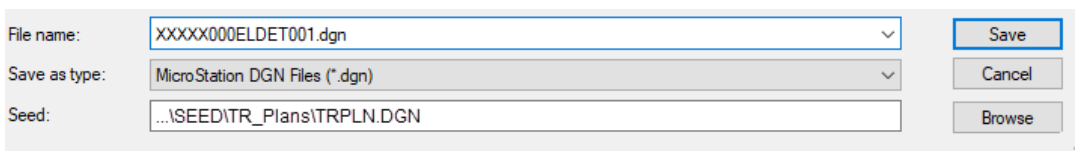
Section I. Create Hydraulic Detail Sheet

Procedure – Create Detail Sheet using Manual Process

1. Launch **MicroStation** with the following configuration:
 - a. Workspace = **Enhanced**
 - b. Project = **MDT_Hydraulics** (Preconstruction Startup **Hydraulics** Workgroup)
2. Create **New File**.



3. To select the Seed:, **click *Browse***.
4. **Go** into the **\Seed\HY_Plans** folder.
5. Select the **HYDET001.DGN** file.
6. Name the file according to MDT file naming standards and **“Save”**.



Procedure – Create Detail Sheet using Create DGNs Macro

1. Launch **MicroStation** with the following configuration:
 - a. Workspace = **Enhanced**
 - b. Project = **MDT_Hydraulics** (Preconstruction Startup **Hydraulics** Workgroup)
2. **Click** the pulldown menu **Road Tools > File Utilities** and **click Create DGN's**.
3. The **MDT Create DGNs** dialog box will appear. **Enter** the **UPN** for the project file to be created and **select Workgroup HY**.

Note: Project Info may be entered now to be populated in the created detail sheet file or completed later.



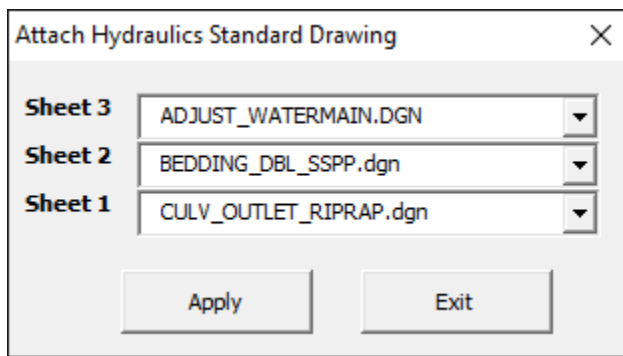
4. **Select *Details*** and **choose** the standard drawing, **enter** the **Beg Series** number to be used for the file name, and **Number of Files** in the adjacent fields.

Note: Hydraulic standard drawing files are referenced and merged from the \\Workgroup\HYSTD folder location within the OpenRoads (Enhanced) workspace. See [Consultant Workspace Installation Instructions](#) and [Consultant Workspace Update Instructions](#) for set up.

Section II. Copy Detail Standard Drawings into Sheets

Procedure – Attach Hydraulics Standard Drawings

1. **Open** the detail file created in **Section I** to add hydraulic standard drawings to detail sheets.
2. **Click** the pulldown menu **Road Tools > Detail Sheets** and **click Attach Standard Hydraulics Drawings**.
3. The **Attach Hydraulics Standard Drawing** dialog box will appear. **Choose** the standard drawing for the desired sheet position(s), then **Apply**.



Note: Existing elements in a sheet will not be deleted with this process so make sure the sheets you select are blank before executing.

4. The standard drawing will be added on the chosen sheet(s).

Note: Hydraulic standard drawing files are referenced and merged from the \\Workgroup\HYSTD folder location within the OpenRoads (Enhanced) workspace. See [Consultant Workspace Installation Instructions](#) and [Consultant Workspace Update Instructions](#) for set up.

Section III. Updating the Detail Sheet Title Block

Procedure – Updating Detail Sheet Title Block Project Information

1. **Open** the detail file created in **Section I** to add or update project information.
2. **Click** the pulldown menu **Road Tools > File Utilities** and **click MDT Active File Settings**.
3. The **MDT Active File Settings** dialog box will appear. **Click Project Info** and fill in the applicable project information.

The image shows two screenshots of software dialog boxes. The left screenshot is the 'MDT Active File Settings' dialog box, which has two tabs: 'Sheet Settings' and 'File Information'. The 'File Information' tab is active, showing 'Current Sheet Configuration' with fields for 'Select Sheet Attachment', 'Sheet File Name' (MTSTD:RDSHEET.REF), 'Sheet Model' (SHT_RDOET), and 'Sheet Description' (SHEETS_Road Detail Sheets). Below these are buttons for 'Place Data Fields', 'Attach Scaled Sheets', and 'Save Sheet Views'. There are also fields for 'Select Preliminary Stamp' and 'Select Title Seal'. The 'Sheet Label Settings' section at the bottom has a 'Project Info' field with the path 'c:\dgn\MDTPM\9999000\HYPRJ001.DAT' and a 'CPB List File' field. A 'Label Title Sheet' checkbox is unchecked, and an 'Apply' button is present. 'Help' and 'EXIT' buttons are at the bottom.

The right screenshot is the 'MDT Project Manager' dialog box, which has three tabs: 'Project Information', 'Design Data/Related Projects', and 'Project Settings'. The 'Project Information' tab is active. It contains fields for 'Project File' (c:\dgn\MDTPM\9999000\HYPRJ001.DAT), 'CPB List File', and 'AID Designation' (FEDERAL AID PROJECT). Below these are sections for 'Project Information' (Type of Work, Location: EAST OF TEST LOCATION - EAST, County 1: BEAVERHEAD, County 2, PE NUMBER: STPP 1-1(101)111, CE NUMBER, R/W & I.C., Project Length) and 'Design Data/Related Projects' (UPN: 9999000, WORK GROUP: HY, Working Units: ENGLISH, GEOMETRIC DESIGN TABLE). 'Help' and 'Save & Exit' buttons are at the bottom.

4. **Click Save & Exit** from the **MDT Project Manager** dialog, then **click Apply** from the **Active File Settings** dialog.

Procedure – Updating Detail Sheet Title Block Design Block

1. **Open** the detail file created in **Section I** to add or update project information.
2. **Click** the pulldown menu **Road Tools > Plan Sheets** and **click Design Block**
3. The **MDT Design By Block** dialog box will appear. Enter the desired label **Name** and **Date**, then **select** the desired **Sheet Placement** and **click Apply**.

Label	Name	Date
DESIGNED BY	XXX	2/2/2022
REVIEWED BY	XXX	2/10/2022
CHECKED BY	XXX	2/18/2022
REVISED BY		
REVISED		
REVISED		

Sheet Placement

Sheet 3
 Sheet 2
 Sheet 1
 All Sheets
 Pave Pres Sheets

Apply HELP Exit