

CONTROL DIAGRAM – MICROSTATION (ENHANCED)

Contents

CONTENTS		1
OVERVIEW		2
	Provenance	
	OF NEED	
	SCRIPTION AND EXAMPLES	
	Control Diagram Sheet Creation	
	e control Diagram onect oreation	
Procedure		3

Contents Page 1 | 5



Overview

Development of a Utility Plan control diagram in the Microstation Enhanced workspace.

Process Provenance

- Date of development: N/A
- Revision date: N/A
- Application/Tool(s): MicroStation V8i SS10 / Power GEOPAK V8i SS10
- Version(s): N/A
- Environment(s): OpenRoads (Enhanced) Workspace
- Author: MDT EngOps Workflow Steering Committee

Statement of Need

This process develops a sheet that is a part of the Utility plans which play a vital role in moving MDT Highway projects toward completion.

Overview PAGE 2 | 5



Process Description and Examples Section I. Control Diagram Sheet Creation

Procedure

Use the following procedure for creating the utility control diagram and abstract sheet:

- 1. Download the traverse file from the <u>RD</u> workgroup in DMS, usually named 1234000RDTRV001. Copy this file to the c:\dgn\ref directory for referencing.
- Create a new UT Traverse sheet from the UT Seed files found at ..\CaddStdOR\SEED\UT_Plans (ex. 1234000<u>UTTRV001</u>.DGN).
- 3. In 'Active file' 'View Attributes', ensure Level Overrides are turned on.
- 4. Attach RD Traverse Sheet as a reference.
 - Within the Reference dialog, choose "Tools", "Attach"
 - Within the Attach Reference dialog, select the RD Traverse Sheet, then choose "Open".
 - Insert RDTRV-1 as the logical name.
 - Select "Coincident World" from the orientation options. Adjust Nested Attachments option to "Copy Attachments", then choose "OK".
 - Select each duplicated occurrence of RDSHEET.REF but leave "SHT", then choose "Tools", "Detach".
 - Check reference prefixes and fix as needed or use the reference macro.
- 5. Turn off sheet labels from the RD Traverse Sheet, typically level "P_Sheets_Plan_Label_Sheet_Text" and "S_SHEETS_DesignBlock_Data_Fields". If the labels are on a different level, adjust accordingly or mask the reference file as outlined below.
 - Select the pink clip boundary around the bottom of the first sheet to create a fence. Within the Reference dialog, select the RDDET-1 Road Design detail sheet reference file, then choose "Tools", "Clip Boundary then accept the pink shape outlining the plan data fields in sheet 1.
 - Repeat for sheet 2 and sheet 3 as needed.
- 6. Attach all survey, utility map and right of way files (PH, DI, UTSUE, UTMAP, ROMAP etc.) if not already attached.

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- Scale, Rotate, and Move the files to fit the displayed control points of the traverse.
- Check reference prefixes and fix as needed or use the reference macro.
- Turn on levels from survey map files to show general topography such as fences, buildings, streams, PTW, mailboxes, etc.
- Turn on levels from utility map files to show the utilities.
- Turn on levels from right of way map files to show section lines.
- In 'Reference' 'Settings' 'Level Manager', for the survey files set the color to 80, line weight and symbology override to off, except utility features.
- In 'Reference' 'Settings' 'Level Manager', for the utility files set the line weight and symbology override to off and the color symbology as follows:

Water levels	color 1
Sanitary sewer levels	color 2
Power levels	color 3
TV levels	color 5
Communication levels	color 54
Gas levels	color 56
Drainage levels	color 0

- In 'Reference' 'Settings' 'Level Manager', for the right of way files set the color to 0, line weight and symbology override to off.
- 7. Adjust drawing scale as necessary for line style and text annotation scale.
- 8. In 'Reference' 'Settings' 'Level Manager', choose active file and ensure all style and weight attributes are off, color attributes are 0 (white).



9. In 'Reference' 'Settings' 'Update Sequence' and change update sequence as follows:

