

# **CONTROL DIAGRAM & ABSTRACT – MICROSTATION (LEGACY)**

## **Contents**

<b>CONTENTS</b> .....	<b>1</b>
<b>OVERVIEW</b> .....	<b>2</b>
Process Provenance .....	2
<b>STATEMENT OF NEED</b> .....	<b>2</b>
<b>PROCESS DESCRIPTION AND EXAMPLES</b> .....	<b>3</b>
Section I. Title Sheet Creation.....	3
Procedure .....	3

## Overview

Development of a Utility Plan Control Diagram and Abstract sheet in the Microstation legacy workspace.

### Process Provenance

- Date of development: N/A
- Revision date: N/A
- Application/Tool(s): *MicroStation V8i SS10*
- Version(s): N/A
- Environment(s): *GEOPAK (Legacy) 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.








# Process Description and Examples

## Section I. Title Sheet Creation

### Procedure

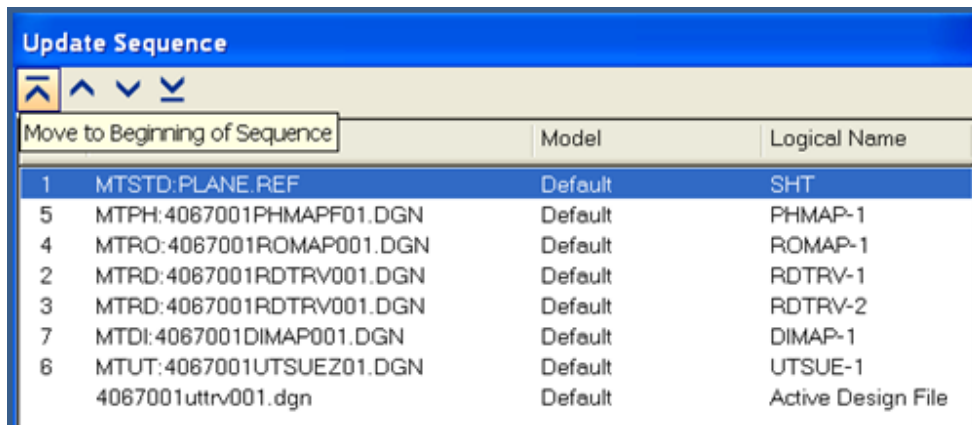
1. Download the traverse file from the RD workgroup in DMS, usually named 1234000RDTRV001. Copy this file to the c:\dgn\ref directory for referencing.
2. Open RD Traverse sheet, save it as UT traverse sheet (ex. 1234000UTTRV001.DGN)
  - Place a fence around all elements in the file, delete the active elements, then compress the file.
3. Attach UTILITYV8\_0.TBL (color table) and UTILITYV8\_0E.CEL (cell library) from <ftp://ftp.mdt.mt.gov/caddstd/WORKGROUP/UTSTD/>.
4. In 'Active file' 'View Attributes', turn on Level Overrides.
5. In 'Reference' 'Settings' 'Level Display', choose MTSTD:PLANE.REF, set filter to UTDET.
  - Turn of level "Detail Title Block" for bottom, mid and top.
6. In 'Reference' 'Settings' 'Level Manager', choose MTSTD:PLANE.REF, set all style and weight attributes off, color attributes to 0 (white).
7. Attach RD Traverse Sheet as a reference with RDTRV-1 as the logical name.
  - Clip boundary around the reference to display the Control Diagram & Abstract sheet.
8. Attach all survey, utility map and right of way files (PH, DI, UTSUE, UTMAP, ROMAP etc.) if not already attached.
  - Scale, Rotate, and Move the files to fit the displayed control points of the traverse.
  - 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 6
	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.

9. Attach cell "STDSHTDF" from cell library. It is inserted at XY=50000, 50000.
10. Fill in the data for the project information. This cell contains the county name, project name, project UPN, project number, scale factor and sheet number data fields for the bottom of the pages.
11. In 'Reference' 'Settings' 'Level Manager', choose active file and set all style and weight attributes off, color attributes to 0 (white).
12. In 'Reference' 'Settings' 'Update Sequence' and change update sequence as follows:



	Move to Beginning of Sequence	Model	Logical Name
1	MTSTD:PLANE.REF	Default	SHT
5	MTPH:4067001PHMAPF01.DGN	Default	PHMAP-1
4	MTRD:4067001ROMAP001.DGN	Default	ROMAP-1
2	MTRD:4067001RDTRV001.DGN	Default	RDTRV-1
3	MTRD:4067001RDTRV001.DGN	Default	RDTRV-2
7	MTDI:4067001DIMAP001.DGN	Default	DIMAP-1
6	MTUT:4067001UTSUEZ01.DGN	Default	UTSUE-1
	4067001uttrv001.dgn	Default	Active Design File