

GDOT
ELECTRONIC DATA GUIDELINES Version 3.0



GEORGIA DEPARTMENT OF TRANSPORTATION

ELECTRONIC DATA GUIDELINES

Version 3.0

**Current Revision Date:
January 5, 2009**

1-2 TABLE OF CONTENTS

Electronic Data Guidelines (Section 1)

- 1-1 Electronic Data Guidelines Cover
- 1-2 Table of Contents
- 1-3 Disclaimer
- 1-4 EDG Revision Summary
- 1-5 General Information
- 1-6 Current DOT Software Versions
- 1-7 Guidelines for Submitting Electronic Data
- 1-8 Graphic Standards
- 1-9 Minimum Text for Right of Way
- 1-10 File Conversion-Metric/English
- 1-11 Saving Plotted Views
- 1-12 File Locations
- 1-13 Miscellaneous Items

Design File Names and Level Schemes (Section 2)

- 2-1 Design File Names and Level Schemes Cover
- 2-2 Construction Plan Assembly
- 2-3 Plan Sheet Levels
- 2-4 Construction Plan Assembly Sheets Sections**
 - (1) Cover
 - (2) Index
 - (3) Revision Summary
 - (4) General Notes
 - (5) Typical Sections
 - (6) Summary of Quantities
 - (7) Quantities Required by Amendment
 - (8) Quantities Required on Construction
 - (9) Detailed Estimate
 - (10) Traffic Diagram
 - (11) Construction Layout
 - (12) Misc. Maps
 - (13) Mainline Plan
 - (14) Crossroad Plan
 - (15) Mainline Profile
 - (16) Crossroad Profile

GDOT
ELECTRONIC DATA GUIDELINES Version 3.0

2-4 Construction Plan Assembly Sheets Sections (continued)

- (17) Driveway Profiles
- (18) Special Grading
- (19) Construction Staging Plan
- (19) Construction Staging Profiles
- (19) Construction Staging Cross Sections
- (20) Construction Staging Details
- (21) Drainage Area Map
- (22) Drainage Profiles
- (23) Cross Sections
- (24) Utility Plans
- (25) Lighting Plans
- (26) Signing and Marking Plans
- (27) Signal Plans
- (28) ATMS Plans
- (29) Landscaping Plans
- (30) Mitigation Plans
- (31) Retaining Wall Envelope
- (32) Retaining Wall Plans
- (33) Sound Barrier Envelopes
- (34) Sound Barrier Plans
- (35) Bridge Plans
- (36) Bridge Culvert Plans
- (37) Miscellaneous Structures
- (38) Special Construction Detail
- (39) Special Design Box Culverts
- (40) Construction Details
- (41) Georgia Standards
- (44) Utility Relocation Plans
- (50) Erosion Control Cover
- (51) Erosion, Sedimentation, and Pollution Control General Notes
- (52) Erosion Control Legend and Uniform Codes
- (53) Drainage Area Map
- (54) BMP Location Details
- (55) Erosion Control Watershed Map and Site Monitoring
- (56) Erosion Control Construction Detail
- Right-of-Way

2-5 Reference: File Names (List)

2-6 Reference: Names and Level Schemes

MAIN	Alignment, edge of pavement
DRNG	Drainage (Plan View)
REQD	Required Right-of-Way and easements

GDOT
ELECTRONIC DATA GUIDELINES Version 3.0

2-6 Reference: Names and Level Schemes (continued)

SIGN	Signing and Pavement marking
SGNL	Signals
ATMS	Automated Traffic Management System
UTLE	Utilities (Existing)
UTLP	Utilities (Proposed)
ECON	Existing Contours
FCON	Final Contours
LIMIT	Construction Limits
STE#	Staging/Erosion Control (per stage #)
PROP	Existing Property Information
TOPO	Existing Topography
ENVE	Existing Environmental and Cultural Resources
ENVP	Proposed Environmental and Cultural Resources
LNSC	Landscaping
LGHT	Lighting
TRDG	Traffic diagram
RWTB	Right of way and easement tables
TYPS	Typical Sections
WALL	Walls (plan view)
WPRO	Walls (profile view)
CNLY	Construction Layout
SHEET	Sheet Layout Location

Supporting Files (Downloaded) (Section 3)

- 3-1 Supporting Files (Downloaded) Cover
- 3-2 Cell Libraries

1-3 DISCLAIMER

The guidelines contained in this document are for reference only. The material contained is provided without warranty or liability of any kind to the Department. Every effort has been made to make the documentation as complete and accurate as possible without errors.

This information is provided on an "as is" basis. Updates to these guidelines will be made as needed due to any errors found in the documentation, new programs, changes in software, software enhancements, or as policy and management dictate.

As with any documentation or guidelines, improvements can and should be made. Any additions, suggestions or comments for improvement are encouraged. This documentation is not meant to be a complete instructional document. The intent is to provide guidelines that, if followed, will result in better quality and consistency for electronic plans and documents.

Any recommendation for improvement to this documentation is welcomed. Any errors found should be brought to the attention of the DOT so corrections can be made. Any additional information or detailed explanation needed to this documentation should be documented and mailed to:

Director of Preconstruction
Georgia Department of Transportation
One Georgia Center
600 W. Peachtree St. N.W.
Atlanta, GA 30308, US

Attn: Plan Presentation Committee

Or email to:
PPC@dot.ga.gov

GDOT
ELECTRONIC DATA GUIDELINES Version 3.0

1-4 EDG REVISION SUMMARY

Version 3.0 - Revision Date: **January 5, 2009**

Any subsequent revisions to this document shall be documented below.

Revisions

Date	Description
1/5/09	Synchronized EDG with PPG (affected files are shown below)*
“	Updated GDOT plot drivers.
6/15/07	Updated various reference file attachments for “ENVE” to reflect changes for displaying Environmentally Sensitive Areas (ESA's)
“	Added ESA notes to reference file menu “ENVE”
“	Updated plotting functionality
“	Updated GDOT Root Menu for Concept Layouts and Traffic diagrams
“	Revised GDOT DGN Reference Files/Plan Sheet Generator program
3/15/07	Modified menus to reflect Erosion control changes.
“	Updated function keys menu and added help documents.
“	Updated GDOT Standard Border cell to reflect changes in sections 50-56.
“	Updated GDOT plot drivers.
“	Added Erosion Control linestyles
“	Updated Utility Legend
9/15/06	Added combination utility linestyles to EDG sections “UTLP” & “UTLE”.
“	Moved guy wire cell origin to end-point of cell.
“	Added “To Be Removed” (TBR) linestyles to proposed utility menus.
“	Added TBR linestyle for Traffic Control.
“	Added GPLOT videos to GDOT Root Menu.
“	Added GPLOT Help to GDOT Root Menu.
“	Added sheet legends to GDOT-GN-Sheets cell library.
“	Corrected GDOT Root Menu macro for Detailed Estimate sheets. [Problem Description] Did not attach the correct cell library.
“	Corrected R/W linestyle attributes in EDG “PROP” section. [Problem Description] Did not match the approved R/W Legend.
“	Added GPLOT Help to GDOT Root Menu.
“	Added sheet legends to GDOT-GN-Sheets cell library.
“	Corrected GDOT Root Menu macro for Detailed Estimate sheets. [Problem Description] Did not attach the correct cell library.
“	Corrected R/W linestyle attributes in EDG “PROP” section. [Problem Description] Did not match the approved R/W Legend.
3/15/06	Linestyles – modified and/or added various linestyles for Utilities, Erosion Control, Signing & marking, etc...

GDOT
ELECTRONIC DATA GUIDELINES Version 3.0

“	Level assignments and menu functions – modified menu level functions to correspond to EDG specifications.
“	Cells – updated and/or added various cells to existing libraries.

*For a more detailed review of specific changes, see
C:\Gdot\GDOTRoad\Help\EDG2004RevHistoryV3_0.pdf

Menu and Source Files Revised/Added

File Modified	Description	File Location	Status
GDOTLSTY.rsc	GDOT Linestyle Resource	GDOT\GDOTRoad\Symb	Revised
GDOT_ROOT.mdf	GDOT Root Menu File	GDOT\GDOTRoad\Data	“
04_GDOT_GENERAL_NOTES_PLANS.MDF	General Notes	“	“
06_GDOT_SUMMARY_QUANTITIES.MDF	Summary of Quantities	“	“
10_GDOT_TRAFFIC_DIAGRAM_PLANS.mdf	Traffic Diagram	“	“
12_GDOT_MISCELLANEOUS_MAPS_PLAN S.mdf	Misc. Maps	“	Added
13_GDOT_MAINLINE_PLANS.mdf	Mainline Plan sheets	“	Revised
15_GDOT_MAINLINE_PROFILES.mdf	Driveway Profiles	“	Added
16_GDOT_CROSSROAD_PROFILES.mdf	Driveway Profiles	“	Added
17_GDOT_DRIVEWAY_PROFILES.mdf	Driveway Profiles	“	Added
19_GDOT_CONSTRUCTION_STAGING_PL ANS.mdf	Staging Plans (1-5)	“	“
19_GDOT_CONSTRUCTION_STAGING_PRO FILE_PLANS.mdf	Staging Profiles	“	“
19_GDOT_CONSTRUCTION_STAGING_XSE CTION_PLANS.mdf	Staging Cross Sections	“	“
23_GDOT_CONSTRUCTION_XSECTION_PL ANS.mdf	Cross Sections	“	Added
33_GDOT_SOUND_BARRIER_ENVELOPES_ PLANS.mdf	Noise Barrier Envelopes Plans	“	“
34_GDOT_SOUND_BARRIER_PLANS.mdf	Noise Barrier Plans	“	Revised
44_GDOT_UTILITY_RELOCATION_PLANS. mdf	Utility Relocation Plans	“	Added
51_GDOT_ESPC_GENERAL_NOTES_PLANS .MDF	Erosion Control	“	Revised
REF_20SCALE_ENVE.MDF	Existing Environmental	“	“
REF_50SCALE_ENVE.MDF	“	“	“
REF_DRNG.MDF	Drainage	“	“
REF_20SCALE_STE.MDF	Staging/Erosion Control	“	“
REF_50SCALE_STE.MDF	Staging/Erosion Control	“	“
REF_20SCALE_EXUTIL.MDF	Existing Utilities	“	“
REF_50SCALE_EXUTIL.MDF	Existing Utilities	“	“
REF_20SCALE_PRUTIL.MDF	Proposed Utilities	“	“
REF_50SCALE_PRUTIL.MDF	Proposed Utilities	“	“
REF_20SCALE_REXUTIL.MDF	Removed Utilities	“	“
REF_50SCALE_REXUTIL.MDF	Removed Utilities	“	“

Cell Library Files Revised/Added

File Modified	Description	File Location	Status
GDOT-ER-Erosion.cel	GDOT Erosion Cell Library	GDOT\GDOTRoad\Cells	Revised
GDOT-ER-Erosion20.csf	GDOT Erosion Cell Selector	GDOT\GDOTRoad\Cells	“
GDOT-ER-Erosion50.csf	GDOT Erosion Cell Selector	GDOT\GDOTRoad\Cells	“
GDOT-ER-Erosion-Notes.cel	GDOT Erosion Control Notes	GDOT\GDOTRoad\Cells	“
GDOT-GN-Sheets.cel	GDOT Sheets Cell Library	“	“
GDOT-GN-General-Notes.cel	GDOT General Notes Library	“	“
GDOT-GN-Landscape.cel	GDOT Landscape Cell Library	“	“
GDOT-UT-Utility.cel	GDOT Utility Cell Library	“	“
GDOT-GN-Quantities.cel	GDOT Quantities Cell Library	“	“
GDOT-GN-Reqd20.csf	GDOT R/W Cell Selector	“	Added
GDOT-GN-Reqd50.csf	GDOT R/W Cell Selector	“	“
GDOT-GN-Typical Sections.cel	GDOT Typical Sections Library	“	Revised

Macro Files Revised/Added

File Modified	Description	File Location	Status
S1RLCOVER.ba	Construction Cover	GDOT\GDOTRoad\Macros	Revised
S10RLTRDG.ba	Traffic Diagram	“	“
S12RFMMAP.ba	Miscellaneous Maps	“	Added
S12RLMMAP.ba	Miscellaneous Maps	“	“
S13RLMAIN.ba	Construction & Intersection Plan Sheet	“	“
S15RLMLPR.ba	Mainline Profiles	“	“
S16RLCRPR.ba	Crossroad Profiles	“	“
S17RLDWPR.ba	Driveway Profiles	“	“
S18RLSPGR.ba	Special Grading Plans	“	“
S19RLSTE1.ba	Construction Staging	“	Revised
S19RLSTE2.ba	“	“	“
S19RLSTE3.ba	“	“	“
S19RLSTE4.ba	“	“	“
S19RLSTE5.ba	“	“	“
S19RLSTPR.ba	Staging Profiles	“	Added
S19RLSTXS.ba	Staging Cross Sections	“	“
S23RLMLXS.ba	Cross Sections	“	“
S24RLUTIL.ba	Utility Plans	“	“
S25RLLGHT.ba	Lighting Plans	“	“
S26RFSIGN.ba	Signing & Marking	“	“
S26RLSIGN.ba	Signing & Marking	“	“
S29RFLNSC.ba	Landscaping Plans	“	Revised
S29RLLNSC.ba	Landscaping Plans	“	“
S30RLMITG.ba	Mitigation Plans	“	“
S33RFNBE.ba	Noise Barrier Envelopes Plans	“	“
S33RLNBE.ba	Noise Barrier Envelopes Plans	“	“
S34RFNBP.ba	Noise Barrier Plans	“	“

S34RLNBP.ba	Noise Barrier Plans	“	“
S44RFUTILR.ba	Utility Relocation Plans	“	Added
S44RLUTILR.ba	Utility Relocation Plans	“	“
Detest.ba	Detailed Estimate	“	Revised

DGN Files Revised/Added

File Modified	Description	File Location	Status
Various Sample files in 123456\DGN	Sample DGN files	123456\DGN	Revised
kcgrden-edg.dgn	GDOT Standard Cross-section Grid	C:\CAICE\SEED	Revised
kcgrdew-edg.dgn	“	“	“

Plotting Resource Files Revised/Added

For a detailed list of plotting configuration changes, please see the following document:

C:\Gdot\GDOTRoad\Help\PlottingQuickReference_3_0.pdf

1-5 GENERAL INFORMATION

Term EDG

In places where EDG is mentioned in this document, unless otherwise stated, it represents an acronym for Electronic Data Guidelines and not the MicroStation EDG utility which is a graphics design file editor.

English Units

This document and the supporting CADD Standard files were written based upon Projects with English Units. Metric versions of these items will only be produced if the Department decides to start new projects in the Metric format.

Reference Files

The use of MicroStation reference files is required to prevent duplicate design information. Therefore, project design elements should exist in only one design file in most cases.

Topography

Only one topography file will exist for a project. Topography updates must be coordinated between the project manager and the SDE.

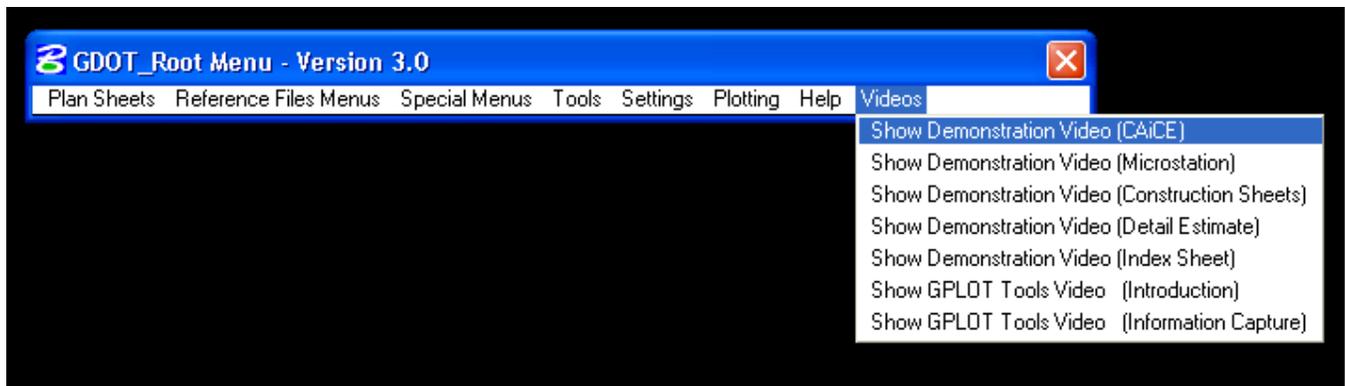
As a general rule, topography files will remain independent files and should not be modified. However, special situations may require manipulation of these files at the discretion of the project manager and may require coordination with the project SDE. Only topographic information should be included in topo files. No centerline information should be created or shown in the topography files.

GDOT
ELECTRONIC DATA GUIDELINES Version 3.0

GDOT Root Menu

The GDOT_Root Menu was developed to minimize common repetitive tasks of the plan sheet development process. This menu also aids with compliance to the current GDOT EDG by automating many of the steps needed for reference file and level settings. Further development of this menu is ongoing and we welcome your feedback and suggestions.

For help with using the GDOT_Root Menu, please see the videos which demonstrate the creation of the following files: MATCHLINE.dgn, SHEETLAYOUT.dgn, and a Construction and Utility plan sheet.



1-6 CURRENT DOT SOFTWARE VERSIONS

The current versions of major software used and accepted by the Georgia DOT are identified on the R.O.A.D.S. website:

<http://www.dot.ga.gov/doingbusiness/PoliciesManuals/roads/Pages/default.aspx>

All project deliverables must be submitted in CAiCE and Microstation software format. Technical support and documentation for CAiCE and Microstation versions other than the version identified on the R.O.A.D.S. website will not be provided by the Georgia DOT. The INI files, sheet commands, grid files, menus, workspaces, etc., provided by GDOT may not work for other versions.

MicroStation provides methods for exchanging select file types but data is often modified during the process. Improvements have been made and are being evaluated. If CADD software other than MicroStation J is used, those files should be converted to MicroStation J file format and thoroughly reviewed prior to transmitting to the department.

1-7 GUIDELINES FOR SUBMITTING ELECTRONIC DATA TO THE DEPARTMENT

All electronic data furnished to the GA DOT shall use the appropriate naming scheme and format for the type of data to be transmitted. It is very important to clearly communicate what is being transmitted and to describe the format of the transmitted files.

A letter is to be attached to **all submissions** stating briefly:

1. File content
2. File Format (zipped, XP, 2000, MicroStation, CAiCE etc. and the utility used)
3. CAiCE or MicroStation version (as identified on R.O.A.D.S. website)
4. Number of CDs .
5. Files must be in the proper format before transmitting to the DOT. No translating of information by DOT personnel shall be required.
6. If files are zipped or backed up, a brief explanation of the recommended procedure to extract the files should be included.
7. Versions of software must be current to or fully compatible with that of the GA DOT.
8. Each disk submitted shall be labeled and dated with a minimum of the PI# and date. If a series of disks are transmitted, the disk label shall also include the disk number and the total disks of that set, (ex: 1 of 10). Other subsequent disks shall be labeled so as to uniquely identify each group or set and shall include the sequence number followed by the total number in the group (ex: 2 of 10, 3 of 10, etc.)
9. The DOT reserves the right to reject any file transmitted that does not conform to these guidelines.

Deviation from Format

Any file to be submitted that deviates from the above mentioned format must have prior DOT approval. The approval must be in writing with the name of the individual from the DOT who permitted the varying format.

GDOT
ELECTRONIC DATA GUIDELINES Version 3.0

Using Backup, Disks, and Compression

In general, all files are to be furnished on one of the following in order of preference:

- 1) **CD**
- 2) **DVD**
- 3) **FTP**

Winzip

If data compression is necessary, WINZIP will be the standard format used. The WINZIP executable shall be included with the transmitted files.

1-8 GRAPHIC STANDARDS

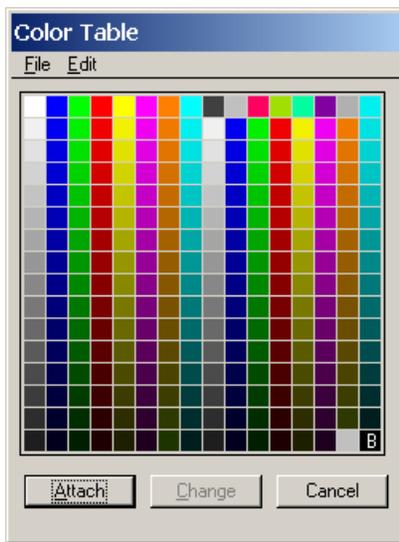
MicroStation

Color Tables:

The Department has two acceptable Microstation color table formats:

GDOTcolor.tbl	for use in plan file production.
GDOTDcolor.tbl	for use in concept layouts (public displays).

GDOTcolor.TBL



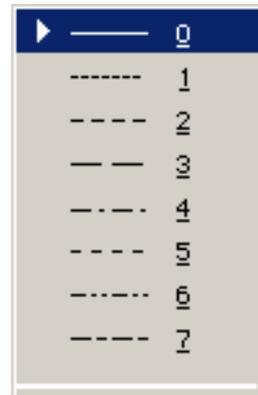
GDOTDcolor.tbl



MicroStation

Line Code:

LC	=	#	→	RESULTING LINE STYLE
	=	0	=	SOLID
	=	1	=	DOTTED
	=	2	=	MEDIUM DASH
	=	3	=	LONG DASH
	=	4	=	DOT DASH
	=	5	=	SHORT DASH
	=	6	=	DASH DOT DOT
	=	7	=	LONG DASH SHORT DASH

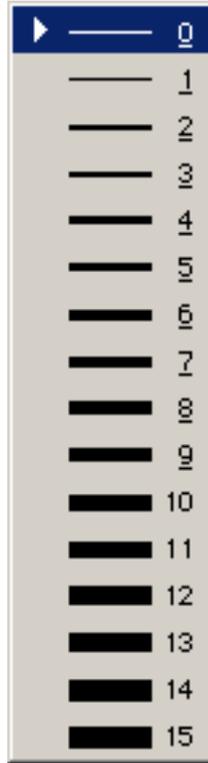


MicroStation

Weight Number:

WT = # → RESULTING WEIGHT / THICKNESS

0	=	0.005"
1	=	0.010"
2	=	0.015"
3	=	0.020"
4	=	0.025"
5	=	0.030"
6	=	0.035"
7	=	0.040"
8	=	0.045"
9	=	0.050"
10	=	0.055"
11	=	0.060"
12	=	0.065"
13	=	0.070"
14	=	0.075"
15	=	0.080"
10	=	0.085"



WEIGHT VS. THICKNESS

*** NOTE:** MicroStation weights range from 0 to 31. The resulting weight as shown above is not a MicroStation design file thickness value as viewed on the monitor screen, but is the measured width or thickness on a hardcopy plot from an output device such as a plotter. The resulting value may vary slightly in appearance or measured width due to plotter specific controls. A measured value of width or thickness as shown above is desired and must be obtained within a reasonable tolerance.

Experience indicates there is no problem meeting the above guideline for thickness and appearance. For that reason, a tolerance value is not specified. If upon review of plans submitted to the Department or submitted by another office of the Department, it is found that the line thickness, weight, or style does not meet the Departments guidelines, the Department shall reserve the right to reject those plans.

MicroStation

User Defined Line Styles:

The Department has created over 450 user defined line styles for use in displaying Utilities, Erosion Control Items, Guardrail, Fencing and many other linear displayed features. The only acceptable line styles that the Department will accept are those that the Department has provided. Any suggestions for future line styles should be submitted to the **Plan Presentation Committee.**

Email to:

PPC@dot.ga.gov

Microstation - File Format

From the MicroStation (IGDS) file type, the number of units of resolution are: 4,294,967,295 or 2 to the 32nd power +1.

The English Seed file is noted as GDOT2D.DGN and is different than the SEED2D.DGN provided with the MicroStation software. The original SEED2D.DGN file provided with MicroStation should not be used for creating files for the DOT.

English Units

FOR ALL ENGLISH MICROSTATION FILES

MicroStation J file format is to be used for all CADD files submitted using the following working units:

Master Units:	FT	
Sub Units:	th	
Resolution:	1000	th per FT
Positional Units:	1	(Positional Units per th)
Working area of	4,294,967	FT square

The GDOT2D.dgn seed file has been set with a Global Origin as follows:

GO=0,0

XY=-2147483647,-2147483647

This provides a design plane for a range in coordinate values (x,y) from (0,0) to (4,294,967.295,4,294,967.295). If coordinates are placed on or outside the design plane, a problem with the file will result.

1-9 MINIMUM TEXT SIZE FOR RIGHT OF WAY PLANS

English Text Size Guidelines

The minimum size for text on a set of Right of Way plans is to be 0.15 inches on the final D size plot.

Text information shown on Right of Way plan sheets should be placed at a minimum size of (0.15 X the scale for the plans). Plans are usually done at 1 inch equals fifty feet (1"=50') which would equal a text size of 7.5 feet (0.15 x 50 = 7.5) or for 1 inch equals 20 feet (1"=20') which would equal a text size of 3.0 feet (0.15 x 20 = 3.0).

NOTE ON WEIGHT FOR TEXT

It is important on small text to keep the weight to a maximum of weight=2 and preferably either weight 0 or 1. Heavier weights, especially numbers, when reduced to a small document will appear as blurred objects and are not legible.

Why the minimum size and weight for text

A minimum text size on Right of Way plans must be followed for several reasons. The most important is the requirement for filing legible courthouse documents, deeds, etc. Plans, or selected areas of plans are often reduced to a letter size document to provide the legal description to be filed in the courthouse as the final document. The minimum text size guideline was established to meet the need of this requirement.

There are situations where the text size may be smaller but this generally applies to construction plans. The final output is also dependent on the device used for generating the final plot or hardcopy. The above guideline for text size considered these factors and more when selecting the size.

1-10 FILE CONVERSION -- Metric / English

When converting meters to feet and extreme accuracy is needed, use the conversion factor for U.S. Survey Feet rather than the slightly different factor for the International Foot. The factors are as follows:

U.S. Survey Feet (GA DOT plans)

For conversion of meters to U.S. Survey Feet, multiply the meters by 39.37 divided by 12 which is 3.28083333333 to 12 significant figures.

To further explain: using 1 meter = 39.37 inches, and converting to meters per foot,
 $((1 \text{ m} / 39.37 \text{ ") } \times (12 \text{ " / ft})) = 0.3048006096012 \text{ m/ft}$ or rounding for a factor of 0.3048

International Feet

For conversion of meters to International Feet, multiply the meters by 100.0 divided by 30.48 which is 3.28083989501 to 12 significant figures.

To further explain: using 25.4 millimeters = 1 inch, and converting to meters per foot,
 $((25.4 \text{ mm} / 1 \text{ ") } \times (12 \text{ " / ft}) \times (\text{m} / 1000 \text{ mm})) = 0.3048000000000 \text{ m/ft}$ or rounding for a factor of 0.3048

1-11 SAVING VIEWS IN MICROSTATION FOR PLOTTING

Problem: Recalling information to plot

When design files are provided for review, modification, revision, etc., the personnel viewing or modifying the design files cannot easily determine which reference files were attached or what levels were displayed in producing the final hardcopy plot.

Solution: Super Saved Views

For each sheet file and all major files for which a plot is created from, a Super Saved View called **GPLOT** should be created that contains the exact levels displayed for the active file and all reference files attached which produce the final plot.

Once the file is rotated on the screen correctly, view attributes set correctly, all files attached with appropriate levels displayed and all reference files clipped, the user can either use the **GDOT_Root Menu** command, *Save Super View GPLOT* or key-in **MACRO SV GPLOT** to save the view. This will create a file with the prefix the same as the design file plus the following extension **_GPLOT.svb**.

Example 123456CP01_**GPLOT**.svb

These .svb files should be included in any submission of project plans to department personnel.

For example, assuming the design file 123456CP01.DGN for mainline will be opened in MicroStation for review or modification and the plotting information was saved in a Super Saved View named GPLOT, the reviewer would open the design sheet file in MicroStation by either accessing the **GDOT_Root Menu** and selecting *Recall Super View GPLOT* or by the key-in **MACRO VI GPLOT**. This should display the file exactly as it appeared when the Super Saved View of **GPLOT** was created.

The two macros SV and VI are provided with the **GDOTCADD-ALL** download.

1-12 FILE LOCATIONS

USING PI # FOR SUBDIRECTORY

The P.I.# less the first character followed by four characters shall be used to describe the type of MicroStation design file.

Assuming the drive letter C:\ is used as the root directory and a PI Number of 0001234 is the active project, the first number of the PI number, 0 for this project, should be dropped and the appropriate file type added. The resulting file prefix would now be the **6 digit number** 001234 plus the 4 character description.

Example: 001234MAIN.dgn for the main design file.

This naming convention allows many of the processes in attaching reference files to be automated. The **6 digit number prefix** must be used in order for these automation tools to function properly.

All design file names must use the 6 digit PI Number as part of the file name with the exception of the **Sheetlayout.dgn** and the **Matchline.dgn** files.

All MicroStation files should be located in a subdirectory of the PI Number named \DGN\.

Example: C:\001234\DGN

Note: Microstation reference files should be attached without the Save Full path option on. By following the conventions set forth in the file names and their locations, the project will work whether or not a drive letter changes due to the transfer of files.

CAiCE Archive files should be stored in a subdirectory of the PI Number named \CAiCE\.

Example: C:\123456\CAiCE

1-13 MISCELLANEOUS ITEMS

A clipped boundary should be placed so that a match line is created for the adjacent sheets to be plotted. This minimizes the possibility for duplication of data between plan sheets.

It is recommended to display levels on a final plot as illustrated later in these guidelines. This will help ensure consistency as well as assist in the automation of procedures. As with any document there may be items that have not been addressed and the project designer will need to make the final determination of level display for each sheet. Documentation must be provided for information placed in Microstation files that are not listed in Sections 2-4 and 2-6.

Documentation of procedures and project history should be maintained in a project log file.

ELECTRONIC DATA GUIDELINES

2-1 Design File Names and Level Schemes

The following sections describe in a spreadsheet format the Design File Name and Level Conventions that should be used on Georgia DOT plans.

Construction Plan Assembly

Construction Plan Assembly Section Number and Type	Design File Name(s)	Description
	6 Digit PI Number followed by TYPE and Sheet Number	
(1)Cover	123456 CV01 .DGN	Cover Sheet
(2)Index	123456 IN01 .DGN	Index Sheet
(3)Revision Summary	123456 RV01 .DGN	Revision Summary Sheet
(4)General Notes	123456 GN01 .DGN	General Notes/Project Notes (may be included with Detailed Estimate Sheet)
(5)Typical Sections	123456 TY01 .DGN	Typical Sections
(6)Summary of Quantities	123456 QN01 .DGN	Summary of Quantities (including Signing & Marking & Signal Quantities)
(7)Quantities Amendment	123456 QA01 .DGN	Quantities Required by Amendment
(8)Quantities (Construction)	123456 QC01 .DGN	Quantities Required on Construction
(9)Detailed Estimate	123456 DT01 .DGN	Detailed Estimate
(10)Traffic Diagram	123456 TR01 .DGN	Traffic Diagram
(11)Construction Layout	123456 CL01 .DGN	Construction Layout Sheet (Stakeout Sheet)
(12)Miscellaneous Maps (New Location Projects only)	123456 MM01 .DGN	Miscellaneous Maps and/or Aerial Photo Mosaics (New Location Projects only)
(13)Mainline Plan	123456 CP01 .DGN	Mainline Roadway Plan Sheets (plan & profile may be on same sheets)
(14)CrossRoad Plan	123456 XR01 .DGN	Crossroad, Side Street, and Frontage Road Plans (plan & profile may be on same sheet)
(15)Mainline Profile	123456 PR01 .DGN	Mainline Roadway Profile Sheets

Construction Plan Assembly

Construction Plan Assembly Section Number and Type	Design File Name(s)	Description
	6 Digit PI Number followed by TYPE and Sheet Number	
(16)Crossroad Profile	123456 XP01 .DGN	Crossroad, Side Street, and Frontage Road Profile Sheets
(17)Driveway Profile	123456 DR01 .DGN	Driveway Profiles
(18)Special Grading	123456 GR01 .DGN	Special Grading Sheets (Sediment/Detention Basins, Parking Lots, etc...)
(19)Construction Staging Plan Sheets	123456 ST01 .DGN	Construction Staging Plan Sheets
(19)Construction Staging Profile Sheets	123456 SP01 .DGN	Construction Staging Profile Sheets
(19)Construction Staging Cross-Sections	123456 SX01 .DGN	Construction Staging Cross-Sections
(20)Staging Details	123456 SD01 .DGN	Staging Details
(21)Drainage Area Map	123456 DM01 .DGN	Drainage Area Map
(22)Drainage Profiles	123456 DP01 .DGN	Drainage Profiles
(23)Cross Sections	123456 XS01 .DGN	Cross Sections
(24)Utility Plans	123456 UT01 .DGN	Utility Plans
(25)Lighting Plans	123456 LT01 .DGN	Lighting Plans and Details
(26)Signing and Marking Plans	123456 SM01 .DGN	Signing and Marking Plans and Details
(27)Signal Plans	123456 SG01 .DGN	Signal Plans
(28)ATMS Plans	123456 AT01 .DGN	ATMS/ITS Plans

Construction Plan Assembly

Construction Plan Assembly Section Number and Type	Design File Name(s)	Description
	6 Digit PI Number followed by TYPE and Sheet Number	
(29)Landscaping Plans	123456 LS01 .DGN	Landscaping Plans and Details
(30)Mitigation Plans	123456 WM01 .DGN	Mitigation Plans (Wetland, etc...)
(31)Retaining Wall Envelopes	123456 WE01 .DGN	Retaining Wall Envelopes
(32)Retaining Wall Plans	123456 WL01 .DGN	Retaining Wall Plans (MSE, Tie-Back, Cast-In-Place, etc...)*
(33)Sound Barrier Envelopes	123456 SE01 .DGN	Sound Barrier Envelopes
(34)Sound Barrier Plans	123456 SB01 .DGN	Sound Barrier Plans*
(35)Bridge Plans	123456 BR01 .DGN	Bridge Plans and Bridge Standards*
(36)Bridge Culvert Plans	123456 CU01 .DGN	Bridge Culvert Plans*
(37)Miscellaneous Structures	123456 MS01 .DGN	Miscellaneous Structural Plans (Buildings, tollbooths, ice canopies, etc...)*
(38)Special Construction Detail	123456 DS01 .DGN	Special Construction Details - Project Specific (ADA, Special Design Drainage Structures, etc...)
(39)Special Culverts	123456 SC01 .DGN	Special Design Box Culverts
(40)Construction Details	123456 CD01 .DGN	Construction Details
(41)Georgia Standards	123456 GS01 .DGN	Georgia Standards
(44)Utility Relocation Plans	123456 UR01 .DGN	Utility Relocation Plans
* Structural Plans designed by the Office of Bridge and Structural Design or Structural Consultants		

Construction Plan Assembly

Construction Plan Assembly Section Number and Type	Design File Name(s)	Description
	6 Digit PI Number followed by TYPE and Sheet Number	
Erosion Control Plans		
(50)Erosion Control Cover Sheet	123456 EC01 .DGN	Erosion Control Cover Sheet
(51)ESPC General Notes	123456 EG01 .DGN	ESPC General Notes
(52)Erosion Control Legend and Codes	123456 EL01 .DGN	Erosion Control Legend and Uniform Codes
(53)Erosion Control Drainage Area Map	123456 ED01 .DGN	Erosion Control Drainage Area Map
(54)BMP Location Details	123456 ER01 .DGN	BMP Location Details
(55)Watershed Map / Site Monitoring	123456 EW01 .DGN	Watershed Map / Site Monitoring
(56)Erosion Control Construction Details	123456 ET01 .DGN	Erosion Control Construction Details
Right-of-Way Plans		
Right-of-Way Cover	123456 RC01 .DGN	Right-of-Way Cover
Right-of-Way Plans	123456 RW01 .DGN	Right-of-Way Plans

Plan Sheet Levels

MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAICE Feature Code	Microstation Line Style or Cell	Color	Weight
Section Specific Levels						
1-41,50-56		Section Specific Information <u>Level Corresponds to Section</u> (Level 13 = Mainline Plan, Level 24 = Utility Plan etc...)				
Following Levels Apply to all Planimetric Sheets (examples include (13) Mainline Plan, (24) Utility Plan etc...)						
42-43		Empty (Available for future expansion) (Not Plotted)				
45		Miscellaneous Items,Notes etc. (Plotted)				
46		North Arrow		NARROW		
47		Match Line (Text)		MATLIN	4	3
48		Match Line (Line)			6	4
49		Scale Bar (10SC,20SC,50SC etc...)		#SC		
49		Logo				
49		Legend Information				
57-59		Empty (Available for future expansion) (Not Plotted)				
60		Plot Substitution Text (Do Not Edit)		GPLN		
61		Sheet Outline and Related Text		GPLN		
62		LEAVE BLANK				
63		Miscellaneous Items,Notes etc. (Not Plotted)				

ELECTRONIC DATA GUIDELINES

2-4 Plan Assembly Sheet Sections

The following sections describe in a spreadsheet format the Design File Name and Level Schemes that should be used on Georgia DOT plan sheets.

(1)Cover

Design File Name(s)	Reference File Name	Logical Name	Levels On			
123456CV01.DGN	NA	NA	1,6,13,43-56,60-62			
	123456MAIN.DGN	MAIN	1-4,6,11,15,21,25			
	123456DRNG.DGN	DRNG	15			
	123456REQD.DGN	REQD	2,6			
	123456PROP.DGN	PROP	6,13,16,19,26,34,35			
	123456TOPO.DGN	TOPO	1,11,13,21,23,25,50			
	123456ENVE.DGN	ENVE	1,3,6,9,11,13,15,17,20,22,25,27,30,32,40,42			
The following information (but not limited to) is copied into the sheet file, placed on Level 54, and scaled up for clarity: Road names and Route numbers, Project midpoint and coordinates, Equalities, Begin and End bridge stations, River and stream names, State, County, City, GMD, and Land Lot lines, Crossroad stations, Railroad and major utility names, parcel numbers, Existing and Required R/W lines, Mainline alignment data.						

(2)Index

Design File Name(s)	Reference File Name	Logical Name	Levels On
123456IN01.DGN	NA	NA	2,45-49,60-62
The files listed below should reside in each PI Project Number folder with the following naming conventions:			
Index.txt			
Index_standards.txt			
Index_details.txt			
These files should be edited for each specific Project with Wordpad or other editor that retains the formatting for columns.			
This will allow for easier placement of the .txt file on Level 2 into the design file with the Automation Tools provided.			

(3)Revision Summary

Design File Name(s)	Reference File Name	Logical Name	Levels On
123456RV01.DGN	NA	NA	3,45-49,60-62
The file listed below should reside in each PI Project Number folder with the following naming convention:			
revision_summary.txt			
This file should be edited for each specific Project with Wordpad or other editor that retains the formatting for columns.			
This will allow for easier placement of the .txt file on Level 3 into the design file with the Automation Tools provided.			

(4)General Notes

Design File Name(s)	Reference File Name	Logical Name	Levels On
123456GN01.DGN	NA	NA	4,45-49,60-62
See GDOT-GN-General-Notes.cel library for general notes.			
General Notes should be placed on Level 4.			

(5)Typical Sections

Design File Name(s)	Reference File Name	Logical Name	Levels On
123456TY01.DGN	NA	NA	5,45-49,60-62
	123456TYP.S.DGN	TYP.S	1-61
See GDOT-GN-Typical Sections.cel library for Typical Sections.cells.			

(6)Summary Quantities

Design File Name(s)	Reference File Name	Logical Name	Levels On
123456QN01.DGN	NA	NA	6,45-49,60-62

(7)Quantities Amendment

Design File Name(s)	Reference File Name	Logical Name	Levels On
123456QA01.DGN	NA	NA	7,45-49,60-62

(8)Quantities (Construction)

Design File Name(s)	Reference File Name	Logical Name	Levels On
123456QC01.DGN	NA	NA	8,45-49,60-62

(9)Detailed Estimate

Design File Name(s)	Reference File Name	Logical Name	Levels On	
123456DT01.DGN	NA	NA	9,45-49,60-62	
The file listed below should reside in each PI Project Number folder with the following naming convention:				
Detailed_estimate.txt				
The output file from the Web Version of the Detailed Estimate program is used in the production of this design file..				
This will allow for easier placement of the .txt file on Level 9 into the design file with the Automation Tools provided.				
This will produce multiple sheets in the design file that should be copied in order to only have one sheet design file per respective sheet..				

(10)Traffic Diagram

Design File Name(s)	Reference File Name	Logical Name	Levels On
123456TR01.DGN	NA	NA	10,45-49,60-62 (See Plan Sheet Levels Section for Level Usage)
	123456TRDG.DGN	TRDG	1-63

(11)Construction Layout

Design File Name(s)	Reference File Name	Logical Name	Levels On
123456CL01.DGN	NA	NA	11,45-49,60-62 (See Plan Sheet Levels Section for Level Usage)
	123456 MAIN .DGN	MAIN	1,6
	123456 CNLY .DGN	CNLY	1-10,36-41
	123456 TOPO .DGN	TOPO	57

(12)Misc. Maps

Design File Name(s)	Reference File Name	Logical Name	Levels On
123456MM01.DGN	NA	NA	12,45-49,60-62
	123456MAIN.DGN	MAIN	1,6,11,15
	123456CNLY.DGN	CNLY	38
	123456ENVE.DGN	ENVE	1,3-7,9-11,13-15,17-20,22-25,27-30,32-40,42-63
	123456ENVP.DGN	ENVP	1-10,12-13,15-18,20-21,23-63

(13)Mainline Plan

Design File Name(s)	Reference File Name	Logical Name	Levels On
123456CP01.DGN	NA	NA	13,45-49,60-62 (See Plan Sheet Levels Section for Level Usage)
	123456 MAIN .DGN	MAIN	1-49
	123456 DRNG .DGN	DRNG	6-49
	123456 REQD .DGN	REQD	1,2,4,6-18,20-23
	123456 SIGN .DGN	SIGN	54
	123456 SGNL .DGN	SGNL	33,40,45,47,48,54
	123456 UTLE .DGN	UTLE	1,4,7,10,13,16,19,22,25,28,31,34,37,40,43,46,49
	123456 LIMIT .DGN	LIMIT	1-4
	123456 PROP .DGN	PROP	6-7,10,13,14,16,17,19,20,26,27,34,35
	123456 TOPO .DGN	TOPO	1,3-5,9,11,13-15,17,19,21,23,25-27,29,31,33,35,37,39,43,58
	123456 ENVE .DGN	ENVE	1-63
	123456 ENVP .DGN	ENVP	1-63

(14)Crossroad Plan

Design File Name(s)	Reference File Name	Logical Name	Levels On
123456XR01.DGN	NA	NA	14,45-49,60-62 (See Plan Sheet Levels Section for Level Usage)
	123456MAIN.DGN	MAIN	1-49
	123456DRNG.DGN	DRNG	6-49
	123456REQD.DGN	REQD	1,2,4,6-18,20-23
	123456SIGN.DGN	SIGN	54
	123456SGNL.DGN	SGNL	33,40,45,47,48,54
	123456UTLE.DGN	UTLE	1,4,7,10,13,16,19,22,25,28,31,34,37,40,43,46,49
	123456LIMT.DGN	LIMT	1-4
	123456PROP.DGN	PROP	6-7,10,13,14,16,17,19,20,26,27,34,35
	123456TOPO.DGN	TOPO	1,3-5,9,11,13-15,17,19,21,23,25-27,29,31,33,35,37,39,43,58
	123456ENVE.DGN	ENVE	1-63
	123456ENVP.DGN	ENVP	1-63

(15)Mainline Profile

Design File Name(s)	Reference File Name	Logical Name	Levels On
123456PR01.DGN	NA	NA	1-62
	*See note below	GRID	1-15,17-62

MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAICE Feature Code	Microstation Line Style or Cell	Color	Weight
1		"Begin/End Construction" label		0	4	2
1		Grades for tangents along PGL		0	1	3
1		PVI/ PVC/ PVT with station and elevation		0	1	3
1		High/Low Point with station and elevation		0	1	3
1		Vertical Curve Data		0	1	3
1		Equality Back/Ahead station and elevation		0	1	3
		All intersecting streets				
1	o	Street name		0	4	2
1	o	Station on mainline/intersecting street		0	6	4
1	o	Elevation		0	1	2
1		All grade separations with clearances		0	1	2
1		Proposed bridges		0	1	4
1		Proposed bridges - begin/end stations		0	4	2
1		Existing ground		2	2	2
1		Even Stations every 50 feet		0	0	2
1		Elev. of existing ground		0	2	1
1		Proposed grade and elevation labels		0	3	3
12		Cross-drains greater than or equal to 48"		0	1	2
45		Miscellaneous (plotted)		0	0	1
50		Intersecting railroad track elev. & stations		0	4	0

*The reference file name will be one of the following: GR?_EDG.DGN, GR?_EDG20.DGN, GR?_E.DGN, GR?_M.DGN, GR?_E20.DGN, GRL_E.DGN, GRL_E20,DGN, or GRL_M.DGN.

(16)Crossroad Profile

Design File Name(s)	Reference File Name	Logical Name	Levels On
123456XP01.DGN	NA	NA	1-62
	*See note below	GRID	1-14,16-18,20-32,35-62

MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAiCE Feature Code	Microstation Line Style or Cell	Color	Weight
1		"Begin/End Construction" label		0	4	2
1		Grades for tangents along PGL		0	1	3
1		PVI/ PVC/ PVT with station and elevation		0	1	3
1		High/Low Point with station and elevation		0	1	3
1		Vertical Curve Data		0	1	3
1		Equality Back/Ahead station and elevation		0	1	3
		All intersecting streets				
1		o Street name		0	4	2
1		o Station on mainline/intersecting street		0	6	4
1		o Elevation		0	1	2
1		All grade separations with clearances		0	1	2
1		Proposed bridges		0	1	4
1		Proposed bridges - begin/end stations		0	4	2
1		Existing ground		2	2	2
1		Even Stations every 50 feet		0	0	2
1		Elev. of existing ground		0	2	1
1		Proposed grade and elevation labels		0	3	3
12		Cross-drains greater than or equal to 48"		0	1	2
45		Miscellaneous (plotted)		0	0	1
50		Intersecting railroad track elev. & stations		0	4	0

*The reference file name will be one of the following: GR?_EDG.DGN, GR?_EDG20.DGN, GR?_E.DGN, GR?_M.DGN, GR?_E20.DGN, GRL_E.DGN, GRL_E20,DGN, or GRL_M.DGN.

(17)Driveway Profiles

Design File Name(s)	Reference File Name	Logical Name	Levels On
123456DR01.DGN	NA	NA	1-62
	kcgrd*.dgn	GRID	1-18,24-62

MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAICE Feature Code	Microstation Line Style or Cell	Color	Weight
1		Direction (right or left) from the roadway		0	0	2
1		Length of vertical curve		0	0	3
1		Tie-in station		0	0	2
1		Proposed surface		0	0	3
2		Grid elevation, offset, and scale labels		0	3	2
3		Driveway station located on mainline		0	1	4
4		Existing ground		2	2	3
4		Proposed elevation labels		0	5	3
4		Proposed grades		0	0	3
5		Proposed subgrade		0	4	3
45		Miscellaneous (plotted)		0	0	1

*The reference file name will vary due to a wide or narrow grid layout.

(18)Special Grading

Design File Name(s)	Reference File Name	Logical Name	Levels On
123456 GR01 .DGN	NA	NA	18,45-49,60-62
	123456 MAIN .DGN	MAIN	1-49
	123456 REQD .DGN	REQD	4,6,8,10,13
	123456 PROP .DGN	PROP	6,8,10,25,27
	123456 DRNG .DGN	DRNG	22-28,49
	123456 TOPO .DGN	TOPO	19
	123456 FCON .DGN	FCON	1-2
	123456 ENVE .DGN	ENVE	1-63
	123456 ENVP .DGN	ENVP	1-63

(19)Staging Plan

Design File Name(s)	Reference File Name	Logical Name	Levels On
123456 ST01 .DGN	NA	NA	19,45-49,60-62 (See Plan Sheet Levels Section for Level Usage)
	123456 MAIN .DGN	MAIN	1-2,4,6-7,9-13,15,17-19,21,23,25,27,36-38
	123456 DRNG .DGN	DRNG	11,12,14,16,19,22,24
	123456 REQD .DGN	REQD	6,8-10,12,15,17,20,22
	123456 SIGN .DGN	SIGN	54
	123456 SGNL .DGN	SGNL	54
	123456 UTLE .DGN	UTLE	1,4,7,10,13,15,19,22,25,28,31,33,37,40,43,46,49
	123456 LIMIT .DGN	LIMIT	1-4
	*123456 STE# .DGN	STE#	1-15,43-50
	123456 PROP .DGN	PROP	6,7,11,13,14,16,17,19,20,34,35
	123456 TOPO .DGN	TOPO	1,3-7,9,11,13,17,23,25,27,33,35
	123456 ENVE .DGN	ENVE	1-63
	123456 ENVP .DGN	ENVP	1-63
*Reference File Name Corresponds to Stage # (example for Stage 1 - 123456 STE1 .DGN Logical Name STE1)			

(19) Staging Profiles

Design File Name(s)	Reference File Name	Logical Name	Levels On
123456SP01.DGN	NA	NA	1-62
	*See note below	GRID	1-14,17-62

MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAICE Feature Code	Microstation Line Style or Cell	Color	Weight
1		Grades for tangents along PGL		0	1	3
1		PVI/ PVC/ PVT with station and elevation		0	1	3
1		High/Low Point with station and elevation		0	1	3
1		Vertical Curve Data		0	1	3
1		Equality Back/Ahead station and elevation		0	1	3
		All intersecting streets				
1	o	Street name		0	4	2
1	o	Station on mainline/intersecting street		0	6	4
1	o	Elevation		0	1	2
1		All grade separations with clearances		0	1	2
1		Proposed bridges		0	1	4
1		Proposed bridges - begin/end stations		0	4	2
1		Existing ground		2	2	2
1		Even Stations every 50 feet		0	0	2
1		Elev. of existing ground		0	2	1
1		Proposed grade and elevation labels		0	3	3
12		Cross-drains greater than or equal to 48"		0	1	2
45		Miscellaneous (plotted)		0	0	1
50		Intersecting railroad track elev. & stations		0	4	0

*The reference file name will be one of the following: GR?_EDG.DGN, GR?_EDG20.DGN, GR?_E.DGN, GR?_M.DGN, GR?_E20.DGN, GRL_E.DGN, GRL_E20.DGN, or GRL_M.DGN.

(19)Staging Cross Sections

Design File Name(s) Reference File Name Logical Name Levels On

123456SX01.DGN	NA	NA	1-62
	kcgrd*.dgn	GRID	1-16,18-21,24-62

MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAICE Feature Code	Microstation Line Style or Cell	Color	Weight
1		Proposed surface		0	0	3
2		Grid elevation, offset, and scale labels		0	3	2
3		Cross section station on mainline		0	1	4
3		Guardrail		0	7	2
4		Existing ground		2	2	3
4		All text (*X-slope grades=0, Prop Elev=3, Tie-in & Slope=4)		0	*	3
4		Proposed grades		0	0	3
5		Proposed subgrade		0	4	3
45		Miscellaneous (plotted)		0	0	1
Staging Cross Sections						
1		Traffic arrows		0	0	3
1		Temporary pavement		0	0	2
1		Proposed work to be done (each stage)		0	0	3
1		Temporary barriers		0	0	2
45		Miscellaneous (plotted)		0	0	1

*The reference file name and some element colors on level 4 will vary.

(20)Staging Details

Design File Name(s)	Reference File Name	Logical Name	Levels On
123456SD01.DGN	NA	NA	20,45-49,60-62

(21)Drainage Area Map

Design File Name(s)	Reference File Name	Logical Name	Levels On
123456DM01.DGN	NA	NA	21,45-49,60-62 (See Plan Sheet Levels Section for Level Usage)
	123456MAIN.DGN	MAIN	1,6,11,15,27
	123456DRNG.DGN	DRNG	1,16,19
	123456ENVE.DGN	ENVE	1-63
	123456ENVP.DGN	ENVP	1-63

(22)Drainage Profiles

Design File Name(s) Reference File Name Logical Name Levels On

123456DP01.DGN	NA	NA	22,1-5,9-12,45-49,60-62
	*See note below	GRID	varies

MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAICE Feature Code	Microstation Line Style or Cell	Color	Weight
1		Proposed surface		0	0	3
2		Proposed structure labels		0	0	2
2		Proposed invert elevations		0	0	2
2		Grid elevation, offset, and scale labels		0	3	2
4		Existing ground		2	2	2
5		Finished ground		0	4	2
9		Proposed drainage material		0	3	2
10		Proposed structure identification #		0	1	2
11		Proposed structures		0	1	2
12		Proposed pipe		0	7	2
45		Miscellaneous items		0	0	2
61		Matchline text		0	0	3

The reference file name will be one of the following: GR?_EDG.DGN, GR?_EDG20.DGN, GR?_E.DGN, GR?_M.DGN, GR?_E20.DGN, GRL_E.DGN, GRL_E20.DGN, GRL_M.DGN, or kcgr.DGN (at the discretion of the designer).

(23)Cross Sections

Design File Name(s)	Reference File Name	Logical Name	Levels On
123456XS01.DGN	NA	NA	1-62
	kcgrd*.dgn	GRID	1-16,18,20-21,23-62

MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAiCE Feature Code	Microstation Line Style or Cell	Color	Weight
1		Proposed surface		0	0	3
2		Grid elevation, offset, and scale labels		0	3	2
3		Cross section station on mainline		0	1	4
3		Guardrail		0	7	2
4		Existing ground		2	2	3
4		All text (*X-slope grades=0, Prop Elev=3, Tie-in & Slope=4)		0	*	3
4		Proposed grades		0	0	3
5		Proposed subgrade		0	4	3
45		Miscellaneous (plotted)		0	0	1

*The reference file name and some element colors on level 4 will vary.

(24)Utility Plans

Design File Name(s)	Reference File Name	Logical Name	Levels On
123456UT01.DGN	NA	NA	24,45-49,60-62 (See Plan Sheet Levels Section for Level Usage)
	123456 MAIN .DGN	MAIN	1,2,6,7,11,13,15,17,19,21,23,25,27,29,31,33,36,37,38
	123456 DRNG .DGN	DRNG	10-12,14,16,19,22,24,26,28
	123456 REQD .DGN	REQD	1-2,4,6,8,10,15,20
	123456 SIGN .DGN	SIGN	45,54,55
	123456 SGNL .DGN	SGNL	32-35,40,45-46,48-51,53,55-59
	123456 UTLE .DGN	UTLE	1-63
	123456 UTLP .DGN	UTLP	1-63
	123456 LIMT .DGN	LIMT	1,2,3,4
	123456 PROP .DGN	PROP	6,13,16,17,19,20,26,27,34,35
	123456 TOPO .DGN	TOPO	1,3,5,7,9,11,13,15-17,19,21,23,25,27,29,31,33,35,37,38,41,54,59
	123456 LGHT .dgn	LGHT	1,5,9,13,17,21,25,27,29
	123456 ENVE .DGN	ENVE	1-2,6-8,11-12,15-16,20-21,25-26,30-31,40-41
	123456 ENVP .DGN	ENVP	12,17,19,20,22,25,27,28,30,31,33,41

(25)Lighting Plans

Design File Name(s)	Reference File Name	Logical Name	Levels On
123456LT01.DGN	NA	NA	25,45-49,60-62 (See Plan Sheet Levels Section for Level Usage)
	123456 MAIN .DGN	MAIN	1-4,6-9,11,13,15,17,19,21,23,25,27,29,31,33,35-41
	123456 DRNG .DGN	DRNG	11,12,14,16,19,24,26,28
	123456 REQD .DGN	REQD	4,6,8,10,13
	123456 SIGN .DGN	SIGN	54
	123456 SGNL .DGN	SGNL	49-51,53-56
	123456 UTLE .DGN	UTLE	1,4,7,10,13,16,19,22,25,28,31,34,37,40,43,46,49
	123456 UTLP .DGN	UTLP	1-51
	123456 LIMIT .DGN	LIMIT	1-4
	123456 PROP .DGN	PROP	6,13,16,19,26,
	123456 TOPO .DGN	TOPO	1-45,50,57-62
	123456 LGHT .DGN	LGHT	1-63
	123456 ENVE .DGN	ENVE	1-63
	123456 ENVP .DGN	ENVP	1-63

(26)Signing and Marking Plans

Design File Name(s)	Reference File Name	Logical Name	Levels On
123456SM01.DGN	NA	NA	26,45-49,60-62 (See Plan Sheet Levels Section for Level Usage)
	123456MAIN.DGN	MAIN	1,2,6,7,11,13,15,17,19,21,23,25,27,29,31,36,38
	123456DRNG.DGN	DRNG	11-13,16,17,19
	123456REQD.DGN	REQD	4,6-8,10,11,13,14,15,17,20-22
	123456SIGN.DGN	SIGN	1,6,36,38,45-48,54-60
	123456PROP.DGN	PROP	6,13,14,16,17,19,20,26,27,33-35
	123456TOPO.DGN	TOPO	1,3,5,11,13,15,23,24,41
	123456UTLE.DGN	UTLE	34,35,37,38,40,41,43-47,49,50,59
	123456UTLP.DGN	UTLP	34,35,37,38,40,41,43-47,49,50,59
	123456ENVE.DGN	ENVE	1-63
	123456ENVP.DGN	ENVP	1-63

(27)Signal Plans

Design File Name(s)	Reference File Name	Logical Name	Levels On
123456SG01.DGN	NA	NA	27,45-49,60-62 (See Plan Sheet Levels Section for Level Usage)
	123456MAIN.DGN	MAIN	1,2,6,7,11,13,15,17,19,21,23,25,27,29,31,36,38
	123456DRNG.DGN	DRNG	12,19
	123456REQD.DGN	REQD	8,14
	123456SIGN.DGN	SIGN	47,58
	123456SGNL.DGN	SNGL	1-63
	123456UTLP.DGN	UTLP	1,3,4,6,7,9,10,12,13,15,16,18,19,21,22,24,25,27,28,30 31,33,34,36,37,39,40,42,46,48,49,51
	123456PROP.DGN	PROP	6,7,13,14,16,17,19,20,26,27
	123456TOPO.DGN	TOPO	1,3,5,7,9,11,13,15,17,19,21,23,27,29,31,33,35,37,39,43,58
	123456UTLE.DGN	UTLE	1,3,4,6,7,9,10,12,13,15,16,18,19,21,22,24,25,27,28,30,31,33,34, 36,,37,39,40,42,43,45,46,48,49,51
	123456ENVE.DGN	ENVE	25-28
	123456ENVP.DGN	ENVP	41

(28)ATMS Plans

Design File Name(s)	Reference File Name	Logical Name	Levels On
123456AT01.DGN	NA	NA	28,45-49,60-62 (See Plan Sheet Levels Section for Level Usage)
	123456MAIN.DGN	MAIN	1,2,6,7,11,13,15,17,19,21,23,25,27,29,31,33
	123456DRNG.DGN	DRNG	12,16,19,22,24,26-28
	123456REQD.DGN	REQD	6,8,10,12,14,15,17,20,22
	123456SIGN.DGN	SIGN	45-48,58-59
	123456SGNL.DGN	SNGL	1-63
	123456UTLP.DGN	UTLP	1,3,4,6,7,9,10,12,13,15,16,18,19,21,22,24,25,27,28,30 31,33,34,36,37,39,40,42,46,48,49,51
	123456PROP.DGN	PROP	6,7,13,14,16,17,19,20,26,27
	123456TOPO.DGN	TOPO	11

(29)Landscaping Plans

Design File Name(s)	Reference File Name	Logical Name	Levels On
123456LS01.DGN	NA	NA	29,45-49,60-62 (See Plan Sheet Levels Section for Level Usage)
	123456 MAIN .DGN	MAIN	1-4,6-9,11,13,15,17,19,21,23,25,27,29,31,33
	123456 LNSC .DGN	LNSC	1-63
	123456 REQD .DGN	REQD	8,26
	123456 PROP .DGN	PROP	6
	123456 DRNG .DGN	DRNG	12,23,27,41,43,50,52-53
	123456 TOPO .DGN	TOPO	1,3,5,7,9,11,13,15,23,25,27,29,31,33,35,39
	123456 ENVE .DGN	ENVE	1-63
	123456 ENVP .DGN	ENVP	1-63
	123456 UTLE .DGN	UTLE	36,39,42,45,51
	123456 UTLP .DGN	UTLP	36,39,42,45,51
	123456 ECON .DGN	ECON	1,2
	123456 FCON .DGN	FCON	1,2

(30)Mitigation Plans

Design File Name(s)	Reference File Name	Logical Name	Levels On	
123456 WM01 .DGN	NA	NA	30,45-49,60-62	
	123456 MAIN .DGN	MAIN	1-49	
	123456 REQD .DGN	REQD	2,4-23	
	123456 PROP .DGN	PROP	6,18-20,51	
	123456 DRNG .DGN	DRNG	1-5,10-17,19-28,49	
	123456 LIMIT .DGN	LIMIT	1-4	
	123456 UTLE .DGN	UTLE	1,3,4,6,7,9,10,12,13,15,16,18,19,21,22,24,25,27,28, 30,31,33,34,36,37,39,40,42,43,45,46,48,49,51,60,62	
	123456 UTLP .DGN	UTLP	1,3,4,6,10,12,13,15,16,18,19,21,24,27,30,34,37,40, 43,46,48,49,51,60,62	
	123456 TOPO .DGN	TOPO	1,3,5,7,9,11,13-15,17,19,21,23-27,29,31,33,35,37,39,41,43,44,58	
	123456 FCON .DGN	FCON	1-2	
	123456 SIGN .DGN	SIGN	54	
	123456 SGNL .DGN	SGNL	33,40,45,47,48,54	
	123456 ENVE .DGN	ENVE	1-63	
	123456 ENVP .DGN	ENVP	1-63	
	123456 LNSC .DGN	LNSC	1-8,21-28,41-48	

(31)Retaining Wall Envelope

Design File Name(s)	Reference File Name	Logical Name	Levels On
123456WE01.DGN	NA	NA	31,45-49,60-62 (See Plan Sheet Levels Section for Level Usage)
	123456WPRO.DGN	WPRO	20,21,32-35,40-42
*If preparing a plan and profile sheet, then see also (32)Retaining Wall Plans.			

(32)Retaining Wall Plans

Design File Name(s)	Reference File Name	Logical Name	Levels On
123456 WL01 .DGN	NA	NA	32,45-49,60-62 (See Plan Sheet Levels Section for Level Usage)
	123456 WALL .DGN	WALL	20-22,30-32
	123456 MAIN .DGN	MAIN	1-4,6-9,11,13,15,17,19,21,23,33,34,38,40
	123456 DRNG .DGN	DRNG	11,12,16,19,22,24,28
	123456 REQD .DGN	REQD	2,6,8,12,13,15,17,18
	123456 SIGN .DGN	SIGN	45,54
	123456 SGNL .DGN	SGNL	54,55
	123456 ATMS .DGN	ATMS	14
	123456 UTLE .DGN	UTLE	3,6,9,12,15,18,21,24,27,30,34,37,40,43,46,49
	123456 UTLP .DGN	UTLP	3,6,9,12,15,18,21,24,27,30,34,37,40,43,46,49
	123456 ECON .DGN	ECON	(Optional) 1,2
	123456 FCON .DGN	FCON	(Optional) 1,2
	123456 LIMIT .DGN	LIMIT	1-4
	123456 PROP .DGN	PROP	6,13,14,16,17,19,20,26,27
	123456 TOPO .DGN	TOPO	1,3,5,7,9,11,13,15,17,19,21,23,25-27,29,31-33,35-39, 41-43,57,58

(33)Sound Barrier Envelopes

Design File Name(s)	Reference File Name	Logical Name	Levels On
123456SE01.DGN	NA	NA	33,45-49,60-62 (See Plan Sheet Levels Section for Level Usage)
	123456WPRO.DGN	WPRO	30-32,40-42
*If preparing a plan and profile sheet, then see also (34)Sound Barrier Plans.			

(34)Sound Barrier Plans

Design File Name(s)	Reference File Name	Logical Name	Levels On
123456SB01.DGN	NA	NA	34,45-49,60-62 (See Plan Sheet Levels Section for Level Usage)
	123456WALL.DGN	WALL	31,32,40-42
	123456MAIN.DGN	MAIN	1-13,15-17,19,21,23-30,33,34,36-38,40
	123456DRNG.DGN	DRNG	10-16,19,20,22,24,26-28,55-58
	123456REQD.DGN	REQD	1,2,4-14,17-19,21
	123456SIGN.DGN	SIGN	45,54
	123456SGNL.DGN	SGNL	54,55
	123456ATMS.DGN	ATMS	14
	123456UTLE.DGN	UTLE	3,6,9,12,15,18,21,24,27,30,34,36,37,39,40,42,43,45,46,48,49,51
	123456UTLP.DGN	UTLP	3,6,9,12,15,18,21,24,27,30,34,37,40,43,46,49
	123456ECON.DGN	ECON	(Optional) 1,2
	123456FCON.DGN	FCON	(Optional) 1,2
	123456LIMT.DGN	LIMT	1-4
	123456PROP.DGN	PROP	6,13,14,16,17,19,20,26,27
	123456TOPO.DGN	TOPO	1,3,5,7,9,11,13,15,17,19,21,23,25-27,29,31-33,35-39,41-43,57,58
	123456ENVE.DGN	ENVE	1-63
	123456ENVP.DGN	ENVP	1-63

(35)Bridge Plans

Design File Name(s)	Reference File Name	Logical Name	Levels On
123456BR01.DGN	NA	NA	35,45-49,60-62

(36)Bridge Culvert Plans

Design File Name(s)	Reference File Name	Logical Name	Levels On
123456CU01.DGN	NA	NA	36,45-49,60-62

(37)Miscellaneous Structures

Design File Name(s)	Reference File Name	Logical Name	Levels On
123456MS01.DGN	NA	NA	37,45-49,60-62

(38)Special Construction Detail

Design File Name(s)	Reference File Name	Logical Name	Levels On
123456DS01.DGN	NA	NA	38,45-49,60-62

(39)Special Culverts

Design File Name(s)	Reference File Name	Logical Name	Levels On
123456SC01.DGN	NA	NA	39,45-49,60-62

(40)Construction Details

Design File Name(s)	Reference File Name	Logical Name	Levels On
123456CD01.DGN	NA	NA	40,45-49,60-62

(41)Georgia Standards

Design File Name(s)	Reference File Name	Logical Name	Levels On
123456 GS 01.DGN	NA	NA	41,45-49,60-62

(44)Utility Relocation Plans

Design File Name(s)	Reference File Name	Logical Name	Levels On
123456UR01.DGN	NA	NA	44,45-49,60-62 (See Plan Sheet Levels Section for Level Usage)
	123456 MAIN .DGN	MAIN	1,2,6,7,11,13,15,17,19,21,23,25,27,29,31,33,36,37,38
	123456 DRNG .DGN	DRNG	10-12,14,16,19,22,24,26,28
	123456 REQD .DGN	REQD	1-2,4,6,8,10,15,20
	123456 SIGN .DGN	SIGN	45,54,55
	123456 SGNL .DGN	SGNL	32-35,40,45-46,48-51,53,55-59
	123456 UTLE .DGN	UTLE	1-63
	123456 UTLP .DGN	UTLP	1-63
	123456 LIMIT .DGN	LIMIT	1,2,3,4
	123456 PROP .DGN	PROP	6,13,16,17,19,20,26,27,34,35
	123456 TOPO .DGN	TOPO	1,3,5,7,9,11,13,15-17,19,21,23,25,27,29,31,33,35,37,38,41,54,59
	123456 LGHT .dgn	LGHT	1,5,9,13,17,21,25,27,29
	123456 ENVE .DGN	ENVE	1-2,6-8,11-12,15-16,20-21,25-26,30-31,40-41
	123456 ENVP .DGN	ENVP	12,17,19,20,22,25,27,28,30,31,33,41

(50)Erosion Cover

Design File Name(s)	Reference File Name	Logical Name	Levels On			
123456EC01.DGN	NA	NA	1,43-56,60,61			
	123456 MAIN .DGN	MAIN	1,6,11,15			
	123456 DRNG .DGN	DRNG	15			
	123456 REQD .DGN	REQD	(See PPG Notes)			
	123456 PROP .DGN	PROP	6,34			
	123456 TOPO .DGN	TOPO	1,11,13,21,23,25,50			
	123456 ENVE .DGN	ENVE	1,3,6,9,11,13,15,17,20,22,25,27,30,32,40,42			
The following information (but not limited to) is copied into the sheet file, placed on Level 54, and scaled up for clarity: Road names and Route numbers, Project midpoint and coordinates, Equalities, Begin and End bridge stations, River and stream names, State, County, City, GMD, and Land Lot lines, Crossroad stations, Railroad and major utility names, Mainline alignment data.						

(51)ESPC General Notes

Design File Name(s)	Reference File Name	Logical Name	Levels On
123456EG01.DGN	NA	NA	51,45-49,60-62
See GDOT-ER-Erosion-Notes.cel library for ESPC cells.			
ESPC Notes should be placed on Level 51.			

(52)Erosion Cont. Legend

Design File Name(s)	Reference File Name	Logical Name	Levels On
123456EL01.DGN	NA	NA	52,45-49,60-62 (See Plan Sheet Levels Section for Level Usage)

(53)ERC Drainage Area Map

Design File Name(s)	Reference File Name	Logical Name	Levels On
123456ED01.DGN	NA	NA	53,45-49,60-62 (See Plan Sheet Levels Section for Level Usage)
	123456MAIN.DGN	MAIN	1,6,11,15,27
	123456DRNG.DGN	DRNG	1,16,19
	123456ENVE.DGN	ENVE	1-63
	123456ENVP.DGN	ENVP	1-63

(54)BMP Location Details

Design File Name(s)	Reference File Name	Logical Name	Levels On
123456 ER01 .DGN	NA	NA	54,45-49,60-62 (See Plan Sheet Levels Section for Level Usage)
	123456 MAIN .DGN	MAIN	1,2,6,7,11,13,15,17,19,21,23,25,27,29,31,33,36-38
	123456 DRNG .DGN	DRNG	11-14,16,17,19-28
	123456 REQD .DGN	REQD	6,8,10,12,15,17,20,22
	123456 SIGN .DGN	SIGN	54
	123456 SGNL .DGN	SGNL	54
	123456 LIMIT .DGN	LIMIT	1-4
	123456 STE# .DGN	STE#	1,2,7-15,20-39
	123456 PROP .DGN	PROP	6,7,13,14,16,17,19,20,34,35
	123456 TOPO .DGN	TOPO	1-7,11,13,17,23,25-27,33,35
	123456 UTLE .DGN	UTLE	1,4,7,10,13,16,19,22,25,28,31,34,37,40,43,46,49
	123456 ENVE .DGN	ENVE	1-63
	123456 ENVP .DGN	ENVP	1-63

(55)Watershed Map-Site Mon.

Design File Name(s)	Reference File Name	Logical Name	Levels On
123456 EW01 .DGN	NA	NA	55,45-49,60-62 (See Plan Sheet Levels Section for Level Usage)
	123456 MAIN .DGN	MAIN	1,6,11,15,27
	123456 DRNG .DGN	DRNG	1,16,19
	123456 ENVE .DGN	ENVE	1-63
	123456 ENVP .DGN	ENVP	1-63

(56)Erosion Construction Detail

Design File Name(s)	Reference File Name	Logical Name	Levels On
123456ET01.DGN	NA	NA	56,45-49,60-62 (See Plan Sheet Levels Section for Level Usage)

Right of Way Cover

Design File Name(s)	Reference File Name	Logical Name	Levels On		
123456RC01.DGN	NA	NA	1,43-56,60-62		
	123456MAIN.DGN	MAIN	1-4,6,7,11,15,21,25		
	123456REQD.DGN	REQD	2,6		
	123456PROP.DGN	PROP	6,13,16,19,26,34,35		
	123456DRNG.DGN	DRNG	15		
	123456TOPO.DGN	TOPO	1,11,13,21,23,25,50		
The following information (but not limited to) is copied into the sheet file, placed on Level 54, and scaled up for clarity: Road names and Route numbers,					
Project midpoint and coordinates, Equalities, Begin and End bridge stations, River and stream names, State, County, City, GMD, and					
Land Lot lines, Crossroad stations, Railroad and major utility names, parcel numbers, Existing and Required R/W lines,					
Mainline alignment data.					

Right-of-Way

Design File Name(s)	Reference File Name	Logical Name	Levels On
123456RW01.DGN	NA	NA	57,45-49,60-62 (See Plan Sheet Levels Section for Level Usage)
	123456MAIN.DGN	MAIN	1-12,15-34,36-39,41
	123456DRNG.DGN	DRNG	11,12,14,16,19,22,24,26-28
	123456REQD.DGN	REQD	1-6,8-23,34
	123456SGNL.DGN	SGNL	54,55
	123456UTLP.DGN	UTLP	*
	123456LIMT.DGN	LIMT	1,2,3,4
	123456STE#.DGN	STE#	*
	123456PROP.DGN	PROP	6-20,25-27,33-35
	123456TOPO.DGN	TOPO	1,3,5,7,9,11,13,15,17,19,21,23,25,27,29,31,33,35,37,39,41,43,44
	123456LGHT.DGN	LGHT	*
	123456LNSC.DGN	LNSC	*
	123456ENVP.DGN	ENVP	*
	123456ENVE.DGN	ENVE	1-63
	123456WALL.DGN	WALL	20-22,30-32,40-42
	123456ATMS.DGN	ATMS	*
* Items in these files will need to be displayed on Right-of-Way Plans only if the item impacts Required R/W and/or Easement.			

Reference File Names

Reference File Description	Design File Name(s)	Logical Names	Design File Hyperlink
	6 Digit PI Number followed by TYPE		For Files in folder C:\123456\DGN\ (Sample data set)
Each of the following files should be created for each new project prior to the creation of Sheet Files. This will allow the Automation Tools provided to attach the necessary reference files for each sheet and display the respective information as it is updated during Plan Development.			
Alignment, edge of pavement	123456 MAIN .DGN	MAIN	123456MAIN.DGN
Drainage (Plan View)	123456 DRNG .Dgn	DRNG	123456DRNG.DGN
Required Right-of-Way and easements	123456 REQD .DGN	REQD	123456REQD.DGN
Signing and Pavement marking	123456 SIGN .DGN	SIGN	123456SIGN.DGN
Signals	123456 SGNL .DGN	SGNL	123456SGNL.DGN
ATMS	123456 ATMS .dgn	ATMS	123456ATMS.dgn
Utilities (Existing)	123456 UTLE .DGN	UTLE	123456UTLE.DGN
Utilities (Proposed)	123456 UTLP .DGN	UTLP	123456UTLP.DGN
Existing Contours	123456 ECON .DGN	ECON	123456ECON.DGN
Final Contours	123456 FCON .DGN	FCON	123456FCON.DGN
Construction Limits	123456 LIMIT .DGN	LIMIT	123456LIMIT.DGN
Staging/Erosion Control (per stage #)	123456 STE# .Dgn	STE#	123456STE#.Dgn
Existing Property Information	123456 PROP .DGN	PROP	123456PROP.DGN
Existing Topography	123456 TOPO .dgn	TOPO	123456TOPO.DGN
Existing Environmental and Cultural Resources	123456 ENVE .dgn	ENVE	123456ENVE.dgn
Proposed Environmental and Cultural Resources	123456 ENVP .dgn	ENVP	123456ENVP.dgn
Landscaping	123456 LNSC .dgn	LNSC	123456LNSC.dgn
Lighting	123456 LGHT .dgn	LGHT	123456LGHT.dgn
Traffic diagram	123456 TRDG .dgn	TRDG	123456TRDG.dgn
Right of way and easement tables	123456 RWTB .dgn	RWTB	123456RWTB.dgn
Typical Sections	123456 TYPS .dgn	TYPS	123456TYPS.dgn
Walls (plan view)	123456 WALL .dgn	WALL	123456WALL.dgn
Walls (profile view)	123456 WPRO .dgn	WPRO	123456WPRO.dgn
Construction Layout	123456 CNLY .dgn	CNLY	123456CNLY.dgn
Layout of sheet locations	SHEETLAYOUT.DGN	SHEETS	SHEETLAYOUT.DGN

ELECTRONIC DATA GUIDELINES

2-6 Reference File Names and Levels Schemes

The following sections describe in a spreadsheet format the Reference Design File Names and Level Schemes that should be used in Georgia DOT plan sheets.

MAIN

MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAICE Feature Code	Microstation Line Style or Cell	Color	Weight
CONSTRUCTION CENTERLINE						
1		Construction centerline - lines	CONSTCL	0	6	4
2		Construction centerline - tic marks and sta labels	CONSTCL	0	6	4
3		Construction centerline - PC/PT station labels w/flags	CONSTCL	0	6	3
4		Construction centerline - bearings	CONSTCL	0	6	3
5		Construction centerline - curve label & data table	CONSTCL	0	6	3
SIDE OR CROSS ROAD CENTERLINE						
6		Side or Cross road centerline - lines	SIDECL	0	6	4
7		Side or Cross road centerline - tic marks and sta labels	SIDECL	0	6	4
8		Side or Cross road centerline - PC/PT station labels w/flags	SIDECL	0	6	3
9		Side or Cross road centerline - bearings	SIDECL	0	6	3
10		Side or Cross road centerline - curve label & data table	SIDECL	0	6	3
PROPOSED ROADWAY EDGE OF PAVING						
11		Proposed roadway edge of paving - lines	EOP	0	2	2
12		Proposed roadway edge of paving - description		0	2	2
PROPOSED EDGE OF SHOULDERS						
13		Proposed edge of paved shoulder - lines	EPSHLDR	0	4	2
14		Proposed edge of paved shoulder - description	SHLDR	0	5	2
APPROACH SLABS						
11		Approach slab - lines		0	4	2
12		Approach slab - description		0	5	2

MAIN

MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAICE Feature Code	Microstation Line Style or Cell	Color	Weight
BRIDGE PLANIMETRICS						
15		Proposed bridge - lines		0	0	4
16		Proposed bridge - description		0	4	2
DRIVEWAYS						
17		Driveway - lines		0	5	2
18		Driveway - description		0	4	2
CURB & GUTTER						
19		Proposed curb & gutter - lines - gutter line & back of curb	CGBK	0	2	1
19		Proposed curb - lines (Asphalt/ Concrete Header)		0	2	1
20		Proposed curb & gutter - description		0	4	2
SIDEWALK FACE AND BACK						
21		Sidewalk - lines		0	4	1
22		Sidewalk - description		0	5	1
GUARD RAIL, PROPOSED						
23		Proposed guard rail - lines and anchor		0	7	2
24		Proposed guard rail - description		0	5	2
MEDIAN OR SIDE BARRIER, PROPOSED						
25		Proposed median or side barrier - lines		0	4	2
26		Proposed median or side barrier - description		0	5	2

MAIN

MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAICE Feature Code	Microstation Line Style or Cell	Color	Weight
RETAINING WALL, PROPOSED						
27		Proposed retaining wall - lines		0	4	2
28		Proposed retaining wall - description		0	5	2
SOUND BARRIER WALL, PROPOSED						
29		Proposed sound barrier wall - lines		0	4	2
30		Proposed sound barrier wall - description		0	5	2
FENCE, PROPOSED						
31		Proposed fence - lines		0	3	2
32		Proposed fence - description		0	3	2
CONSTRUCTION FEATURE, MISC., PROPOSED						
33		Proposed misc. construction feature - lines		0	5	2
34		Proposed misc. construction feature - description		0	4	2
CROWN POINT						
35		Proposed crown point	CROWN	0	3	1
ROADWAY DETAILS						
36		Begin/end project & centerline intersection labels		0	4	2
37		Begin/end construction and limit of construction labels			4	2
38		Route # / road names and centerline label (CL Cell)		0	4	2
39		Roadway dimensions		0	4	2
40		Superelevation transition labels		0	4	2
41		Miscellaneous detail information		0	4	2

MAIN

MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAICE Feature Code	Microstation Line Style or Cell	Color	Weight
42		Available				
43		Available				
44		Available				
45		Available				
46		Available				
47		Available				
48		Available				
49		Available				
DESIGN GUIDES						
50		Lane lines (intersection and transition layout guides)		0	3	1
51		Shoulder hinge point chain	SHLDR	0	3	1
52		Available				
53		Available				
54		Available				
55		Available				
56		Available				
57		Available				
58		Available				
59		Available				
60		Available				
61		Available				
62		Available				
63		Miscellaneous notes for designer (not used in plans)		0	0	0

DRNG

MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAICE Feature Code	Microstation Line Style or Cell	Color	Weight
Drainage Areas						
1		Drainage Area Boundary (Major) - Line	BASIN	0	0	1
2		Drainage Area Boundary (Major) - Description		0	0	2
4		Drainage Area Boundary (Sub-system) - Line	SBASIN	0	2	1
5		Drainage Area Boundary (Sub-system) - Description		0	0	2
Proposed Storm Drain Systems (Side Drain, Median Drain, Yard Drain, Slope Drain, etc...)						
10		Storm Drain Structures number label		0	1	2
11		Storm Drain Structures (catch basin, junction boxes, drop inlets, flared end sections, asphalt curb drain Inlet/concrete flume etc...)		0	1	2
12		Storm Drain Pipes (Line)		0	1	2
13		Storm Drain Pipe flow arrows and descriptions		0	1	2
Proposed Ditches and Channels						
14		Ditch and Channel lines with flow arrows		(2 or 4)FTDITCH	4	2
15		Ditch and Channel text		0	4	2
Proposed Cross Drain and Culverts (Items shown on drainage area map)						
16		Cross Drain and Culvert Lines		0	1	2
17		Cross Drain and Culvert flow arrows and descriptions		0	1	2

DRNG

MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAiCE Feature Code	Microstation Line Style or Cell	Color	Weight
Items Not Plotted						
50		CAiCE Structure Node Numbers and Desc. (not plotted)		0	0	0
51		CAiCE Ditch Node Numbers (not plotted)		0	0	0
52		Drainage Area Boundary (Major) - Pattern		0	0	1
53		Drainage Area Boundary (Major) - Points (not plotted)		0	0	0
54		Drainage Area Boundary (Sub-system) - Pnts (not plotted)		0	0	0
55		Sediment Basins Point Symbol		0	4	2
56		Sediment Basins Point # text		0	4	2
57		Detention Pond Point Symbol		0	4	2
58		Detention Pond Point # text		0	4	2
63		Miscellaneous Designer notes (not plotted)		0	0	0

REQD

MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAiCE Feature Code	Microstation Line Style or Cell	Color	Weight
PARCEL OWNER NAME, NUMBER, ETC.						
1		Property/parcel owner name		0	3	2
2		Property/parcel owner number		0	3	2
3		Required R/W tract number and sheet number reference		0	3	2
REQUIRED R/W POINT, LINE, SHAPE, ETC.						
4		Required R/W Marker	RWRM	0	3	4
5		Required R/W point # text and leader line	REQD	0	3	2
6		Required R/W lines	REQD	0	3	4
6		Required Limited Access R/W lines and cells			3	4
7		Required R/W station and offsets flag (See PPG section)	REQD	0	3	2
8		Required R/W description and leader line	REQD	0	3	3
50		Required R/W chain name (not plotted)	REQD	0	3	2
PERMANENT EASEMENT						
9		Permanent easement point # text and leader line	PESMT	0	2	2
10		Permanent Easement lines	PESMT	0	2	2
11		Permanent easement station and offsets flag (See PPG section)	PESMT	0	2	2
12		Permanent easement description and leader line	PESMT	0	2	2
13		Permanent easement patterning	PESMT	0	2	1
50		Permanent easement chain name (not plotted)	PESMT	0	2	2

REQD

MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAiCE Feature Code	Microstation Line Style or Cell	Color	Weight
TEMPORARY EASEMENT						
15		Temporary Easement lines	TESMT	0	2	2
16		Temporary easement station and offsets flag (See PPG section)	TESMT	0	2	2
17		Temporary easement description and leader line	TESMT	0	2	2
18		Temporary easement patterning	TESMT	0	2	1
50		Temporary easement chain name (not plotted)	TESMT	0	2	2
DRIVEWAY EASEMENT						
19		Driveway easement point # text and leader line	DWESMT	0	4	2
20		Driveway Easement lines	DWESMT	0	4	2
21		Driveway easement station and offsets flag (See PPG section)	DWESMT	0	4	2
22		Driveway easement description and leader line	DWESMT	0	4	2
23		Driveway easement patterning	DWESMT	0	4	1
50		Driveway chain name (not plotted)	DWESMT	0	4	2
NORTHING/EASTING COORDINATES						
34		Northing/Easting Coordinate Label		0	0	2
ITEMS NOT PLOTTED						
51		Shapes for patterning		0	0	0
63		Miscellaneous Designer notes (not plotted)		0	0	0

SIGN

MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAiCE Feature Code	Microstation Line Style or Cell	Color	Weight
Existing Signs and Markings						
45		Signs and symbols		0	12	2
46		Sign Notes		0	4	1
47		Pavement Markings		0	0	2
48		Pavement Markings Notes		0	4	1
Proposed Overhead Signs						
54		Sign Structure and proposed strain poles		0	0	3
55		Span Wire		0	0	2
56		Sign Notes, Leader Lines, Codes		0	0	3
Proposed Signs and Markings						
57		Marking Notes		0	0	3
58		Markings-Lane lines, Stop bars, Crosswalks, Painted Islands, Hatching, etc...		0	0	3
59		Signs and symbols		0	0	3
60		Sign Notes, Leader Lines, Codes		0	0	3
Additional Levels needed for Signing sheet Development						
1		Existing Road		2	5	0
6		Existing R/W		7	7	2
36		Begin / End Project		0	4	2
38		Road Name Route #		0	4	2

SGNL

MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAiCE Feature Code	Microstation Line Style or Cell	Color	Weight
Existing Signals						
49		Signal (Poles, Span Wire, Heads, Loops Notes)		2	11	0
50		Controller		2	11	0
51		Conduit and Pullboxes		2	11	0
52		Signal Notes		0	11	0
Proposed Signals						
32		Signs		0	0	2
33		Signal Poles		0	0	1
34		Span Wire		0	2	2
35		Mast Arms		0	3	2
40		Control Cabinet		0	0	1
45		Shared Signal & Comm. Conduits		0	0	2
46		Shared Signal & Comm. Pullboxes (TP 4 & 5)		0	0	1
47		Signal Heads, Pedestrian Heads, & Overhead Street Names		0	2	2
48		Pedestrian Pedestal Poles		0	2	2
53		Communication Only Pullboxes (TP 4 & 5)		0	4	1
54		Loops		0	0	2
55		Communication Only Conduits		0	4	2
56		Signal Only Pullboxes		0	0	1
57		Signal Only Pullboxes (TP 2)		0	0	0
58		Signal Only Conduits		0	0	2
59		Loop lead-In		0	0	2
60		Notes, Quantities, Signs, etc...		0	4	2

SGNL

MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAiCE Feature Code	Microstation Line Style or Cell	Color	Weight
Additional Levels needed for Signal sheet Development						
1		Existing Road		2	5	0
6		Existing R/W		7	7	2
7		Sidewalk (Existing)		2	7	0
36		Begin / End Project		0	4	2
38		Road Name Route #		0	4	2

ATMS

MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAiCE Feature Code	Microstation Line Style or Cell	Color	Weight
12		ITS DEVICE NOTES		0	0	3
13		ITS DEVICES AND CONDUIT (CAMERA SYMBOLS, PULLBOXES, ECBS...)		0	7	3
14		UTILITY POLES (SERVICE POINTS) SYMBOL		0	0	3
15		UTILITY NOTES FOR SERVICE POINTS		0	0	3

UTLE

MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAICE Feature Code	Microstation Line Style or Cell	Color	Weight
Underground						
1		Electrical cell		0	3	1
2		Electrical (Underground) [Text-label,size,type]		0	3	2
3		Electrical (Underground) line		EXUGE	3	2
3		Electrical (Underground) line [Quality Level B]		EXUGE-B	3	2
3		Electrical (Underground) line [Quality Level C]		EXUGE-C	3	2
4		Gas cell		0	52	1
5		Gas (Underground) [Text-label,size,type]		0	52	2
6		Gas (Underground) line		EXUGG	52	2
6		Gas (Underground) line [Quality Level B]		EXUGG-B	52	2
6		Gas (Underground) line [Quality Level C]		EXUGG-C	52	2
6		24" Underground Gas line		EXUGG-24	52	2
6		24" Underground Gas line [Quality Level B]		EXUGG-24B	52	2
6		24" Underground Gas line [Quality Level C]		EXUGG-24C	52	2
6		30" Underground Gas line		EXUGG-30	52	2
6		30" Underground Gas line [Quality Level B]		EXUGG-30B	52	2
6		30" Underground Gas line [Quality Level C]		EXUGG-30C	52	2
6		36" Underground Gas line		EXUGG-36	52	2
6		36" Underground Gas line [Quality Level B]		EXUGG-36B	52	2
6		36" Underground Gas line [Quality Level C]		EXUGG-36C	52	2
6		42" Underground Gas line		EXUGG-42	52	2
6		42" Underground Gas line [Quality Level B]		EXUGG-42B	52	2
6		42" Underground Gas line [Quality Level C]		EXUGG-42C	52	2
6		48" Underground Gas line		EXUGG-48	52	2
6		48" Underground Gas line [Quality Level B]		EXUGG-48B	52	2

UTLE

MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAICE Feature Code	Microstation Line Style or Cell	Color	Weight
6		48" Underground Gas line [Quality Level C]		EXUGG-48C	52	2
7		Traffic Control cell		0	0	1
8		Traffic Control (Underground) [Text-label,size,type]		0	0	2
9		Traffic Control (Underground) line		EXUGTC	0	2
9		Traffic Control (Underground) line [Quality Level B]		EXUGTC-B	0	2
9		Traffic Control (Underground) line [Quality Level C]		EXUGTC-C	0	2
10		Sanitary Sewer cell		0	2	1
11		Sanitary Sewer (Underground) [Text-label,size,type]		0	2	2
12		Sanitary Sewer (Underground) line		EXUGSS	2	2
12		Sanitary Sewer (Underground) line [Quality Level B]		EXUGSS-B	2	2
12		Sanitary Sewer (Underground) line [Quality Level C]		EXUGSS-C	2	2
12		24" Underground Sanitary Sewer line		EXUGSS-24	2	2
12		24" Underground Sanitary Sewer line [Quality Level B]		EXUGSS-24B	2	2
12		24" Underground Sanitary Sewer line [Quality Level C]		EXUGSS-24C	2	2
12		30" Underground Sanitary Sewer line		EXUGSS-30	2	2
12		30" Underground Sanitary Sewer line [Quality Level B]		EXUGSS-30B	2	2
12		30" Underground Sanitary Sewer line [Quality Level C]		EXUGSS-30C	2	2
12		36" Underground Sanitary Sewer line		EXUGSS-36	2	2
12		36" Underground Sanitary Sewer line [Quality Level B]		EXUGSS-36B	2	2
12		36" Underground Sanitary Sewer line [Quality Level C]		EXUGSS-36C	2	2
12		42" Underground Sanitary Sewer line		EXUGSS-42	2	2
12		42" Underground Sanitary Sewer line [Quality Level B]		EXUGSS-42B	2	2
12		42" Underground Sanitary Sewer line [Quality Level C]		EXUGSS-42C	2	2
12		48" Underground Sanitary Sewer line		EXUGSS-48	2	2
12		48" Underground Sanitary Sewer line [Quality Level B]		EXUGSS-48B	2	2
12		48" Underground Sanitary Sewer line [Quality Level C]		EXUGSS-48C	2	2

UTLE

MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAICE Feature Code	Microstation Line Style or Cell	Color	Weight
10		Sanitary Force Main cell		0	2	1
11		Sanitary Force Main (Underground) [Text-label,size,type]		0	2	2
12		Sanitary Force Main (Underground) line		EXUGSFM	2	2
12		Sanitary Force Main (Underground) line [Quality Level B]		EXUGSFM-B	2	2
12		Sanitary Force Main (Underground) line [Quality Level C]		EXUGSFM-C	2	2
13		Water cell		0	1	1
14		Water (Underground) [Text-label,size,type]		0	1	2
15		Water (Underground) line		EXUGW	1	2
15		Water (Underground) line [Quality Level B]		EXUGW-B	1	2
15		Water (Underground) line [Quality Level C]		EXUGW-C	1	2
15		24" Underground Water line		EXUGW-24	1	2
15		24" Underground Water line [Quality Level B]		EXUGW-24B	1	2
15		24" Underground Water line [Quality Level C]		EXUGW-24C	1	2
15		30" Underground Water line		EXUGW-30	1	2
15		30" Underground Water line [Quality Level B]		EXUGW-30B	1	2
15		30" Underground Water line [Quality Level C]		EXUGW-30C	1	2
15		36" Underground Water line		EXUGW-36	1	2
15		36" Underground Water line [Quality Level B]		EXUGW-36B	1	2
15		36" Underground Water line [Quality Level C]		EXUGW-36C	1	2
15		42" Underground Water line		EXUGW-42	1	2
15		42" Underground Water line [Quality Level B]		EXUGW-42B	1	2
15		42" Underground Water line [Quality Level C]		EXUGW-42C	1	2
15		48" Underground Water line		EXUGW-48	1	2
15		48" Underground Water line [Quality Level B]		EXUGW-48B	1	2
15		48" Underground Water line [Quality Level C]		EXUGW-48C	1	2
16		Television cell		0	6	1

UTLE

MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAICE Feature Code	Microstation Line Style or Cell	Color	Weight
17		Television (Underground) [Text-label,size,type]		0	6	2
18		Television (Underground) line		EXUGTV	6	2
18		Television (Underground) line [Quality Level B]		EXUGTV-B	6	2
18		Television (Underground) line [Quality Level C]		EXUGTV-C	6	2
19		Petroleum cell		0	52	1
20		Petroleum (Underground) [Text-label,size,type]		0	52	2
21		Petroleum (Underground) line		EXUGP	52	2
21		Petroleum (Underground) line [Quality Level B]		EXUGP-B	52	2
21		Petroleum (Underground) line [Quality Level C]		EXUGP-C	52	2
21		24" Underground Petroleum line		EXUGP-24	52	2
21		24" Underground Petroleum line [Quality Level B]		EXUGP-24B	52	2
21		24" Underground Petroleum line [Quality Level C]		EXUGP-24C	52	2
21		30" Underground Petroleum line		EXUGP-30	52	2
21		30" Underground Petroleum line [Quality Level B]		EXUGP-30B	52	2
21		30" Underground Petroleum line [Quality Level C]		EXUGP-30C	52	2
21		36" Underground Petroleum line		EXUGP-36	52	2
21		36" Underground Petroleum line [Quality Level B]		EXUGP-36B	52	2
21		36" Underground Petroleum line [Quality Level C]		EXUGP-36C	52	2
21		42" Underground Petroleum line		EXUGP-42	52	2
21		42" Underground Petroleum line [Quality Level B]		EXUGP-42B	52	2
21		42" Underground Petroleum line [Quality Level C]		EXUGP-42C	52	2
21		48" Underground Petroleum line		EXUGP-48	52	2
21		48" Underground Petroleum line [Quality Level B]		EXUGP-48B	52	2
21		48" Underground Petroleum line [Quality Level C]		EXUGP-48C	52	2
23		Telephone (Underground) [Text-label,size,type]		0	6	2
24		Telephone (Underground) line		EXUGT	6	2

UTLE

MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAICE Feature Code	Microstation Line Style or Cell	Color	Weight
24		Telephone (Underground) line [Quality Level B]		EXUGT-B	6	2
24		Telephone (Underground) line [Quality Level C]		EXUGT-C	6	2
27		Non-potable water (Underground) line		EXUGNW	1	2
27		Non-potable water (Underground) line [Quality Level B]		EXUGNW-B	1	2
27		Non-potable water (Underground) line [Quality Level C]		EXUGNW-C	1	2
27		24" Underground Non-potable water line		EXUGNW-24	1	2
27		24" Underground Non-potable water line [Quality Level B]		EXUGNW-24B	1	2
27		24" Underground Non-potable water line [Quality Level C]		EXUGNW-24C	1	2
27		30" Underground Non-potable water line		EXUGNW-30	1	2
27		30" Underground Non-potable water line [Quality Level B]		EXUGNW-30B	1	2
27		30" Underground Non-potable water line [Quality Level C]		EXUGNW-30C	1	2
27		36" Underground Non-potable water line		EXUGNW-36	1	2
27		36" Underground Non-potable water line [Quality Level B]		EXUGNW-36B	1	2
27		36" Underground Non-potable water line [Quality Level C]		EXUGNW-36C	1	2
27		42" Underground non-potable water line		EXUGNW-42	1	2
27		42" Underground non-potable water line [Quality Level B]		EXUGNW-42B	1	2
27		42" Underground non-potable water line [Quality Level C]		EXUGNW-42C	1	2
27		48" Underground Non-potable water line		EXUGNW-48	1	2
27		48" Underground Non-potable water line [Quality Level B]		EXUGNW-48B	1	2
27		48" Underground Non-potable water line [Quality Level C]		EXUGNW-48C	1	2
28		Steam cell		0	52	1
29		Steam (Underground) [Text-label,size,type]		0	52	2
30		Steam (Underground) line		EXUGSTM	52	2
30		Steam (Underground) line [Quality Level B]		EXUGSTM-B	52	2
30		Steam (Underground) line [Quality Level C]		EXUGSTM-C	52	2
30		24" Underground Steam line		EXUGSTM-24	52	2

UTLE

MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAICE Feature Code	Microstation Line Style or Cell	Color	Weight
Overhead						
22		Telephone cell		0	6	1
35		Telephone (Overhead) [Text-label,size,type]		0	6	2
36		Telephone (Overhead) line	UOTL	EXOHT	6	2
16		Television cell		0	6	1
38		Television (Overhead) [Text-label,size,type]		0	6	2
39		Television (Overhead) line		EXOHTV	6	2
1		Electrical cell		0	3	1
41		Electrical (Overhead) [Text-label,size,type]		0	3	2
42		Electrical (Overhead) line	UOEL	EXOHE	3	2
7		Traffic Control cell		0	0	1
44		Traffic Control (Overhead) [Text-label,size,type]		0	0	2
45		Traffic Control (Overhead) line		EXOHTC	0	2
46		Available				
47		Available				
48		Available				
49		Available				
50		Combination Utility [Text-label,size,type]		0	3	2
51		Combination Utility (Overhead) line		0	3	2
51		Combination Utility (Overhead) line [Electric and Telephone]		EXOHE	3	2
51		Combination Utility (Overhead) line [Electric,Telephone, and Traffic Control]		EXOHE TTC	3	2
51		Combination Utility (Overhead) line [Electric, Telephone and Television]		EXOHE TV	3	2
51		Combination Utility (Overhead) line [Electric,Telephone,TV and Traffic Control]		EXOHE TV TC	3	2
51		Combination Utility (Overhead) line [Electric and Traffic Control]		EXOHE TC	3	2
51		Combination Utility (Overhead) line [Electric and Television]		EXOHE TV	3	2

UTLE

MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAICE Feature Code	Microstation Line Style or Cell	Color	Weight
51		Combination Utility (Overhead) line [Electric,Television, and Traffic Control]		EXOHEVTC	3	2
51		Combination Utility (Overhead) line [Telephone and Television]		EXOHTTV	6	2
51		Combination Utility (Overhead) line [Telephone and Traffic Control]		EXOHTTC	6	2
51		Combination Utility (Overhead) line [Telephone,Television and Traffic Control]		EXOHTTVTC	6	2
51		Combination Utility (Overhead) line [Television and Traffic Control]		EXOHTVTC	6	2
51		Combination Utility (Overhead) line [Guy Wire]		EXOHGW	0	2
52		Available				
53		Available				
54		Available				
55		Available				
56		Available				
57		Available				
58		Available				
59		Miscellaneous Notes (Plotted)		0	0	1
60		Test Holes cell		0	0	1
61		Test Holes [Text-label,size,type]		0	0	2
62		Limits of Study		LOS	0	2
63		Miscellaneous Notes (Not plotted)		0	0	0

UTLP

MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAICE Feature Code	Microstation Line Style or Cell	Color	Weight
Underground						
1		Electrical cell		0	3	1
2		Electrical (Underground) [Text-label,size,type]		0	3	2
3		Electrical (Underground) line		PRUGE	3	3
3		Remove Electrical (Underground) line		TBR - EXUGE	3	3
3		Remove Electrical (Underground) line [Quality Level B]		TBR - EXUGE	3	3
3		Remove Electrical (Underground) line [Quality Level C]		TBR - EXUGE	3	3
4		Gas cell		0	52	1
5		Gas (Underground) [Text-label,size,type]		0	52	2
6		Gas (Underground) line		PRUGG	52	3
6		Remove Underground Gas line		TBR - EXUGG	52	3
6		Remove Gas (Underground) line [Quality Level B]		TBR - EXUGG	52	3
6		Remove Gas (Underground) line [Quality Level C]		TBR - EXUGG	52	3
6		24" Underground Gas line		PRUGG-24	52	3
6		Remove 24" Underground Gas line		TBR - EXUGG	52	3
6		Remove 24" Underground Gas line [Quality Level B]		TBR - EXUGG	52	3
6		Remove 24" Underground Gas line [Quality Level C]		TBR - EXUGG	52	3
6		30" Underground Gas line		PRUGG-30	52	3
6		Remove 30" Underground Gas line		TBR - EXUGG	52	3
6		Remove 30" Underground Gas line [Quality Level B]		TBR - EXUGG	52	3
6		Remove 30" Underground Gas line [Quality Level C]		TBR - EXUGG	52	3
6		36" Underground Gas line		PRUGG-36	52	3
6		Remove 36" Underground Gas line		TBR - EXUGG	52	3
6		Remove 36" Underground Gas line [Quality Level B]		TBR - EXUGG	52	3
6		Remove 36" Underground Gas line [Quality Level C]		TBR - EXUGG	52	3

UTLP

MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAICE Feature Code	Microstation Line Style or Cell	Color	Weight
6		42" Underground Gas line		PRUGG-42	52	3
6		Remove 42" Underground Gas line		TBR - EXUGG	52	3
6		Remove 42" Underground Gas line [Quality Level B]		TBR - EXUGG	52	3
6		Remove 42" Underground Gas line [Quality Level C]		TBR - EXUGG	52	3
6		48" Underground Gas line		PRUGG-48	52	3
6		Remove 48" Underground Gas line		TBR - EXUGG	52	3
6		Remove 48" Underground Gas line [Quality Level B]		TBR - EXUGG	52	3
6		Remove 48" Underground Gas line [Quality Level C]		TBR - EXUGG	52	3
7		Available				
10		Sanitary Sewer cell		0	2	1
11		Sanitary Sewer (Underground) [Text-label,size,type]		0	2	2
12		Sanitary Sewer (Underground) line		PRUGSS	2	3
12		Remove Sanitary Sewer (Underground) line		TBR - EXUGSS	2	3
12		Remove Sanitary Sewer (Underground) line [Quality Level B]		TBR - EXUGSS	2	3
12		Remove Sanitary Sewer (Underground) line [Quality Level C]		TBR - EXUGSS	2	3
12		24" Underground Sanitary Sewer line		PRUGSS-24	2	3
12		Remove 24" Underground Sanitary Sewer line		TBR - EXUGSS	2	3
12		Remove 24" Underground Sanitary Sewer line [Quality Level B]		TBR - EXUGSS	2	3
12		Remove 24" Underground Sanitary Sewer line [Quality Level C]		TBR - EXUGSS	2	3
12		30" Underground Sanitary Sewer line		PRUGSS-30	2	3
12		Remove 30" Underground Sanitary Sewer line [Quality Level B]		TBR - EXUGSS	2	3
12		Remove 30" Underground Sanitary Sewer line [Quality Level C]		TBR - EXUGSS	2	3
12		36" Underground Sanitary Sewer line		PRUGSS-36	2	3
12		Remove 36" Underground Sanitary Sewer line		TBR - EXUGSS	2	3
12		Remove 36" Underground Sanitary Sewer line [Quality Level B]		TBR - EXUGSS	2	3
12		Remove 36" Underground Sanitary Sewer line [Quality Level C]		TBR - EXUGSS	2	3

UTLP

MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAICE Feature Code	Microstation Line Style or Cell	Color	Weight
12		42" Underground Sanitary Sewer line		PRUGSS-42	2	3
12		Remove 42" Underground Sanitary Sewer line		TBR - EXUGSS	2	3
12		Remove 42" Underground Sanitary Sewer line [Quality Level B]		TBR - EXUGSS	2	3
12		Remove 42" Underground Sanitary Sewer line [Quality Level C]		TBR - EXUGSS	2	3
12		48" Underground Sanitary Sewer line		PRUGSS-48	2	3
12		Remove 48" Underground Sanitary Sewer line		TBR - EXUGSS	2	3
12		Remove 48" Underground Sanitary Sewer line [Quality Level B]		TBR - EXUGSS	2	3
12		Remove 48" Underground Sanitary Sewer line [Quality Level C]		TBR - EXUGSS	2	3
10		Sanitary Force Main cell		0	2	1
11		Sanitary Force Main (Underground) [Text-label,size,type]		0	2	2
12		Sanitary Force Main (Underground) line		PRUGSFM	2	3
12		Remove Sanitary Force Main (Underground) line		TBR - EXUGSFM	2	3
12		Remove Sanitary Force Main (Underground) line [Quality Level B]		TBR - EXUGSFM	2	3
12		Remove Sanitary Force Main (Underground) line [Quality Level C]		TBR - EXUGSFM	2	3
13		Water cell		0	1	1
14		Water (Underground) [Text-label,size,type]		0	1	2
15		Water (Underground) line		PRUGW	1	3
15		Remove Water (Underground) line		TBR - EXUGW	1	3
15		Remove Water (Underground) line [Quality Level B]		TBR - EXUGW	1	3
15		Remove Water (Underground) line [Quality Level C]		TBR - EXUGW	1	3
15		24" Underground Water line		PRUGW-24	1	3
15		Remove 24" Underground Water line		TBR - EXUGW	1	3
15		Remove 24" Underground Water line [Quality Level B]		TBR - EXUGW	1	3
15		Remove 24" Underground Water line [Quality Level C]		TBR - EXUGW	1	3
15		30" Underground Water line		PRUGW-30	1	3
15		Remove 30" Underground Water line		TBR - EXUGW	1	3

UTLP

MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAICE Feature Code	Microstation Line Style or Cell	Color	Weight
15		Remove 30" Underground Water line [Quality Level B]		TBR - EXUGW	1	3
15		Remove 30" Underground Water line [Quality Level C]		TBR - EXUGW	1	3
15		36" Underground Water line		PRUGW-36	1	3
15		Remove 36" Underground Water line		TBR - EXUGW	1	3
15		Remove 36" Underground Water line [Quality Level B]		TBR - EXUGW	1	3
15		Remove 36" Underground Water line [Quality Level C]		TBR - EXUGW	1	3
15		42" Underground Water line		PRUGW-42	1	3
15		Remove 42" Underground Water line		TBR - EXUGW	1	3
15		Remove 42" Underground Water line [Quality Level B]		TBR - EXUGW	1	3
15		Remove 42" Underground Water line [Quality Level C]		TBR - EXUGW	1	3
15		48" Underground Water line		PRUGW-48	1	3
15		Remove 48" Underground Water line		TBR - EXUGW	1	3
15		Remove 48" Underground Water line [Quality Level B]		TBR - EXUGW	1	3
15		Remove 48" Underground Water line [Quality Level C]		TBR - EXUGW	1	3
16		Television cell		0	6	1
17		Television (Underground) [Text-label,size,type]		0	6	2
18		Television (Underground) line		PRUGTV	6	3
18		Remove Television (Underground) line		TBR - EXUGTV	6	3
18		Remove Television (Underground) line [Quality Level B]		TBR - EXUGTV	6	3
18		Remove Television (Underground) line [Quality Level C]		TBR - EXUGTV	6	3
19		Petroleum cell		0	52	1
20		Petroleum (Underground) [Text-label,size,type]		0	52	2
21		Petroleum (Underground) line		PRUGP	52	3
21		Remove Petroleum (Underground) line [Quality Level B]		TBR - EXUGP	52	3
21		Remove Petroleum (Underground) line [Quality Level C]		TBR - EXUGP	52	3
21		24" Underground Petroleum line		PRUGP-24	52	3

UTLP

MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAICE Feature Code	Microstation Line Style or Cell	Color	Weight
21		Remove 24" Underground Petroleum line		TBR - EXUGP	52	3
21		30" Underground Petroleum line		PRUGP-30	52	3
21		Remove 30" Underground Petroleum line		TBR - EXUGP	52	3
21		Remove 30" Underground Petroleum line [Quality Level B]		TBR - EXUGP	52	3
21		Remove 30" Underground Petroleum line [Quality Level C]		TBR - EXUGP	52	3
21		36" Underground Petroleum line		PRUGP-36	52	3
21		Remove 36" Underground Petroleum line		TBR - EXUGP	52	3
21		Remove 36" Underground Petroleum line [Quality Level B]		TBR - EXUGP	52	3
21		Remove 36" Underground Petroleum line [Quality Level C]		TBR - EXUGP	52	3
21		42" Underground Petroleum line		PRUGP-42	52	3
21		Remove 42" Underground Petroleum line		TBR - EXUGP	52	3
21		Remove 42" Underground Petroleum line [Quality Level B]		TBR - EXUGP	52	3
21		Remove 42" Underground Petroleum line [Quality Level C]		TBR - EXUGP	52	3
21		48" Underground Petroleum line		PRUGP-48	52	3
21		Remove 48" Underground Petroleum line		TBR - EXUGP	52	3
21		Remove 48" Underground Petroleum line [Quality Level B]		TBR - EXUGP	52	3
21		Remove 48" Underground Petroleum line [Quality Level C]		TBR - EXUGP	52	3
22		Telephone cell		0	6	1
23		Telephone (Underground) [Text-label,size,type]		0	6	2
24		Telephone (Underground) line		PRUGT	6	3
24		Remove Telephone (Underground) line		TBR - EXUGT	6	3
24		Remove Telephone (Underground) line [Quality Level B]		TBR - EXUGT	6	3
24		Remove Telephone (Underground) line [Quality Level C]		TBR - EXUGT	6	3
25		Non-potable water cell		0	1	1
26		Non-potable water (Underground) [Text-label,size,type]		0	1	2
27		Non-potable water (Underground) line		PRUGNW	1	3

UTLP

MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAICE Feature Code	Microstation Line Style or Cell	Color	Weight
27		Remove Non-potable water (Underground) line		TBR - EXUGNW	1	3
27		Remove Non-potable water (Underground) line [Quality Level B]		TBR - EXUGNW	1	3
27		Remove Non-potable water (Underground) line [Quality Level C]		TBR - EXUGNW	1	3
27		24" Underground Non-potable water line		PRUGNW-24	1	3
27		Remove 24" Underground Non-potable water line [Quality Level C]		TBR - EXUGNW	1	3
27		30" Underground Non-potable water line		PRUGNW-30	1	3
27		Remove 30" Underground Non-potable water line		TBR - EXUGNW	1	3
27		Remove 30" Underground Non-potable water line [Quality Level B]		TBR - EXUGNW	1	3
27		Remove 30" Underground Non-potable water line [Quality Level C]		TBR - EXUGNW	1	3
27		36" Underground Non-potable water line		PRUGNW-36	1	3
27		Remove 36" Underground Non-potable water line		TBR - EXUGNW	1	3
27		Remove 36" Underground Non-potable water line [Quality Level B]		TBR - EXUGNW	1	3
27		Remove 36" Underground Non-potable water line [Quality Level C]		TBR - EXUGNW	1	3
27		42" Underground non-potable water line		PRUGNW-42	1	3
27		Remove 42" Underground non-potable water line		TBR - EXUGNW	1	3
27		Remove 42" Underground non-potable water line [Quality Level B]		TBR - EXUGNW	1	3
27		Remove 42" Underground non-potable water line [Quality Level C]		TBR - EXUGNW	1	3
27		48" Underground Non-potable water line		PRUGNW-48	1	3
27		Remove 48" Underground Non-potable water line [Quality Level C]		TBR - EXUGNW	1	3
28		Steam cell		0	52	1
29		Steam (Underground) [Text-label,size,type]		0	52	2
30		Steam (Underground) line		PRUGSTM	52	3
30		Remove Steam (Underground) line		TBR - EXUGSTM	52	3
30		Remove Steam (Underground) line [Quality Level B]		TBR - EXUGSTM	52	3
30		Remove Steam (Underground) line [Quality Level C]		TBR - EXUGSTM	52	3
30		24" Underground Steam line		PRUGSTM-24	52	3

UTLP

MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAICE Feature Code	Microstation Line Style or Cell	Color	Weight
30		Remove 24" Underground Steam line		TBR - EXUGSTM	52	3
30		Remove 24" Underground Steam line [Quality Level B]		TBR - EXUGSTM	52	3
30		Remove 24" Underground Steam line [Quality Level C]		TBR - EXUGSTM	52	3
30		30" Underground Steam line		PRUGSTM-30	52	3
30		Remove 30" Underground Steam line		TBR - EXUGSTM	52	3
30		Remove 30" Underground Steam line [Quality Level B]		TBR - EXUGSTM	52	3
30		Remove 30" Underground Steam line [Quality Level C]		TBR - EXUGSTM	52	3
30		36" Underground Steam line		PRUGSTM-36	52	3
30		Remove 36" Underground Steam line		TBR - EXUGSTM	52	3
30		Remove 36" Underground Steam line [Quality Level B]		TBR - EXUGSTM	52	3
30		Remove 36" Underground Steam line [Quality Level C]		TBR - EXUGSTM	52	3
30		42" Underground Steam line		PRUGSTM-42	52	3
30		Remove 42" Underground Steam line		TBR - EXUGSTM	52	3
30		Remove 42" Underground Steam line [Quality Level B]		TBR - EXUGSTM	52	3
30		Remove 42" Underground Steam line [Quality Level C]		TBR - EXUGSTM	52	3
30		48" Underground Steam line		PRUGSTM-48	52	3
30		Remove 48" Underground Steam line		TBR - EXUGSTM	52	3
30		Remove 48" Underground Steam line [Quality Level B]		TBR - EXUGSTM	52	3
30		Remove 48" Underground Steam line [Quality Level C]		TBR - EXUGSTM	52	3
31		Available				
32		Available				
33		Unknown Utility (Underground) line [Quality Level B Only]		TBR - EXUGUNK	0	3

UTLP

MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAICE Feature Code	Microstation Line Style or Cell	Color	Weight
Overhead						
22		Telephone cell		0	6	1
35		Telephone (Overhead) [Text-label,size,type]		0	6	2
36		Telephone (Overhead) line		PROHT	6	3
36		Remove Telephone (Overhead) line		TBR - EXOHT	6	3
16		Television cell		0	6	1
38		Television (Overhead) [Text-label,size,type]		0	6	2
39		Television (Overhead) line		PROHTV	6	3
39		Remove Television (Overhead) line		TBR - EXOHTV	6	3
1		Electrical cell		0	3	1
41		Electrical (Overhead) [Text-label,size,type]		0	3	2
42		Electrical (Overhead) line		PROHE	3	3
42		Remove Electrical (Overhead) line		TBR - EXOHE	3	3
43		Available				
44		Available				
45		Available				
45		Remove Traffic Control (Overhead) line		TBR - EXOHTC	0	3
46		Available				
47		Available				
48		Available				
49		Available				
50		Combination Utility [Text-label,size,type]		0	3	3
51		Combination Utility (Overhead) line [Electric and Telephone]		PROHET	3	3
51		Remove Combination Utility (Overhead) line [Electric and Telephone]		TBR - EXOHET	3	3
51		Combination Utility (Overhead) line [Electric, Telephone, and Traffic Control]		PROHETTC	3	3

UTLP

MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAICE Feature Code	Microstation Line Style or Cell	Color	Weight
51		Remove Combination Utility (Overhead) line [Electric,Telephone, and Traff.Ctrl]		TBR - EXOHETTC	3	3
51		Combination Utility (Overhead) line [Electric, Telephone and Television]		PROHETTV	3	3
51		Remove Combination Utility (Overhead) line [Electric, Telephone and Television]		TBR - EXOHETTV	3	3
51		Combination Utility (Overhead) line [Electric,Telephone,Television, and Traff.Ctrl]		PROHETTVTC	3	3
51		Remove Combination Utility (Overhead) line [Elec., Tele.,TV, and Traff. Cntrl]		TBR - EXOHETTVTC	3	3
51		Combination Utility (Overhead) line [Electric and Traffic Control]		PROHETC	3	3
51		Remove Combination Utility (Overhead) line [Electric and Traffic Control]		TBR - EXOHETC	3	3
51		Combination Utility (Overhead) line [Electric and Television]		PROHETV	3	3
51		Remove Combination Utility (Overhead) line [Electric and Television]		TBR - EXOHETV	3	3
51		Combination Utility (Overhead) line [Electric,Television, and Traffic Control]		PROHETVTC	3	3
51		Remove Combination Utility (Overhead) line [Electric,Television, and Traff.Ctrl]		TBR - EXOHETVTC	3	3
51		Combination Utility (Overhead) line [Telephone and Television]		PROHTTV	6	3
51		Remove Combination Utility (Overhead) line [Telephone and Television]		TBR - EXOHTTV	6	3
51		Combination Utility (Overhead) line [Telephone and Traffic Control]		PROHTTC	6	3
51		Remove Combination Utility (Overhead) line [Telephone and Traffic Control]		TBR - EXOHTTC	6	3
51		Combination Utility (Overhead) line [Telephone,Television, and Traff.Ctrl]		PROHTTVTC	6	3
51		Remove Combination Utility (Overhead) line [Telephone,TV, and Traff. Cntrl]		TBR - EXOHTTVTC	6	3
51		Combination Utility (Overhead) line [Television, and Traffic Control]		PROHTVTC	6	3
51		Remove Combination Utility (Overhead) line [Television, and Traffic Control]		TBR - EXOHTVTC	6	3
51		Combination Utility (Overhead) line [Guy Wire]		PROHGW	0	3
51		Remove Combination Utility (Overhead) line [Guy Wire]		TBR - EXOHGW	0	3
52		Available				
53		Available				
54		Available				
55		Available				
56		Available				

UTLP

MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAICE Feature Code	Microstation Line Style or Cell	Color	Weight
57		Available				
58		Available				
59		Available				
60		Test Holes cell		0	0	3
61		Test Holes [Text-label,size,type]		0	0	3
62		Limits of Study		LOS	0	3
63		Miscellaneous Notes (Not plotted)		0	0	0

ECON

MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAICE Feature Code	Microstation Line Style or Cell	Color	Weight
DESCRIPTION						
1		PROMINENT CONTOUR LINES		0	4	1
1		PROMINENT CONTOUR LINE TEXT		0	5	1
2		INTERMEDIATE CONTOUR LINES		0	1	1
2		INTERMEDIATE CONTOUR LINE TEXT		0	9	1

FCON

MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAICE Feature Code	Microstation Line Style or Cell	Color	Weight
DESCRIPTION						
1		PROMINENT CONTOUR LINES		0	4	1
1		PROMINENT CONTOUR LINE TEXT		0	5	1
2		INTERMEDIATE CONTOUR LINES		0	1	1
2		INTERMEDIATE CONTOUR LINE TEXT		0	9	1

LIMT

MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAICE Feature Code	Microstation Line Style or Cell	Color	Weight
DESCRIPTION						
1		CONSTRUCTION LIMITS CUT LINE	STKCUT	2	1	2
2		CONSTRUCTION LIMITS CUT CELL - "C"	CUT	CUT	1	2
3		CONSTRUCTION LIMITS FILL LINE	STKFIL	2	4	2
4		CONSTRUCTION LIMITS FILL CELL - "F"	FILL	FIL	4	2

STE#

MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAICE Feature Code	Microstation Line Style or Cell	Color	Weight
DESCRIPTION						
ON-SITE DETOUR CENTERLINE						
1		Detour centerline - lines	DETCL	0	6	4
2		Detour centerline - tic marks and sta labels	DETCL	0	6	4
3		Detour centerline - PC/PT station labels w/flags	DETCL	0	6	3
4		Detour centerline - bearings	DETCL	0	6	3
5		Detour centerline - curve label & data table	DETCL	0	6	3
STAGED CONSTRUCTION DETAILS						
6		Sequence of Construction Narrative		0	0	3
7		Traffic Flow Arrows and Edge of Travelway		0	0	3
8		Current Stage Hatching (See also Levels 46-50)		0	0	1
9		Current Stage Labels and Travelway Dimensions		0	0	2
10		Temporary Drainage Structures		0	0	2
11		Temporary Drainage Structures - Descriptions		0	0	2
12		Temporary Pavement/Widening		0	0	3
13		Temporary Barrier/Barricades		0	0	3
14		Construction Limits		0	0	2
15		Miscellaneous		0	0	2
EROSION CONTROL						
20		Silt Fence - Type A		0	0	2
21		Silt Fence - Type B		0	0	2
22		Silt Fence - Type C		0	0	2
23		Baled Straw		0	0	2

STE#

MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAICE Feature Code	Microstation Line Style or Cell	Color	Weight
25		Ditch Checks - Baled Straw		0	0	2
26		Ditch Checks - Temporary Rip Rap		0	0	2
27		Ditch Checks - Silt Fence Type A		0	0	2
28		Ditch Checks - Silt Fence Type B		0	0	2
29		Ditch Checks - Silt Fence Type C		0	0	2
30		Silt Control Gates		0	0	2
31		Inlet Sediment Traps		0	0	2
32		Slope Stabilization Mats/Blankets/Geogrid		0	0	2
33		Construction Entrances		0	0	2
34		Temporary Pipe Slope Drains		0	0	2
35		Temporary Earth Berm		0	0	2
36		Diversion Channels		0	0	2
37		General Erosion Control Notes and symbols per stage		0	0	2
38		Ditch Protection - Bituminous Roving		0	4	2
39		Ditch Protection - Mats/Blankets		0	4	2
ON-SITE DETOUR AND TRAVELWAY DETAILS						
43		Detour name and centerline label (CL)		0	4	2
43		Detour and travelway dimensions		0	4	2
46		Pavement Removal		1	3	0
47		Temporary Construction Pavement			2	
48		Permanent Construction			4	
49		Concrete Median Construction		4	1	0
50		Mill & Overlay Construction		5	5	0
51		Available				
52		Available				

STE#

MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAICE Feature Code	Microstation Line Style or Cell	Color	Weight
53		Available				
54		Available				
55		Available				
56		Available				
57		Available				
58		Available				
59		Available				
60		Available				
61		Available				
62		Available				
63		Available				

PROP

MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAICE Feature Code	Microstation Line Style or Cell	Color	Weight
PROPERTY AND RIGHT OF WAY INFORMATION						
PARCEL OWNER AND INFORMATION						
59		Property/parcel owner name	PAROWN	0	0	3
PROPERTY LINE						
5		Property line chain name	PAR	0	7	2
6		Property line line and PL cell	PAR	7	7	2
6		Existing Limited Access, R/W lines, and cells	RWE	7	0	3
7		Property line line description	PAR	0	7	2
PROPERTY LINE POINTS						
8		Property point on line point symbol	PPOL	7	7	2
9		Property point on line point # text	PPOL	0	7	2
8		Property point computed point symbol	PPC	7	7	2
9		Property point computed point # text	PPC	0	7	2
8		Property corner found point symbol	PCF	7	7	2
9		Property corner found point # text	PCF	0	7	2
RIGHT OF WAY POINTS						
10		Right of way marker found point symbol	RWM	3	4	2
11		Right of way marker found point # text	RWM	0	4	2
10		Right of way computed point symbol	RWC	7	4	2
11		Right of way computed point # text	RWC	0	4	2
10		Right of way prescription point point symbol	RWE	7	4	3
11		Right of way prescription point point # text	RWE	0	4	2

PROP

MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAICE Feature Code	Microstation Line Style or Cell	Color	Weight
RIGHT OF WAY RAILROAD						
12		Right of way railroad point symbol	RWRR	3	4	2
49		Right of way railroad point # text, chain name	RWRR	0	4	2
13		Right of way railroad line	RWRR	3	4	2
14		Right of way railroad line description	RWRR	0	4	2
RIGHT OF WAY UTILITY COMPANY						
15		Right of way utility company point symbol	RWU	3	4	2
50		Right of way utility company point # text, chain name	RWU	0	4	2
16		Right of way utility company line	RWU	3	4	2
17		Right of way utility company line description	RWU	0	4	2
EXISTING EASEMENT						
18		Easement line point symbol	POEL	3	0	2
51		Easement line point # text, chain name	POEL	0	0	2
19		Easement line line	POEL	3	0	2
20		Easement line description	POEL	0	0	2
PROPERTY BOUNDARY LINE MISCELLANEOUS						
25		Property boundary line, miscellaneous,existing, point symbol	BMISC	7	7	2
52		Property boundary line, miscellaneous,existing, point# text,chain name	BMISC	0	7	2
26		Property boundary line, existing, line	BMISC	7	7	2
27		Property boundary line, existing, line description	BMISC	0	7	2

PROP

MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAICE Feature Code	Microstation Line Style or Cell	Color	Weight
BOUNDARY FEATURES						
STATE LINE						
33		State line, existing, point symbol	BSL	6	3	6
53		State line, existing, point # text, chain name	BSL	0	3	4
34		State line, existing, line	BSL	6	3	6
35		State line, existing, line description	BSL	0	3	4
COUNTY LINE						
33		County line, existing, point symbol	BCOL	6	2	4
54		County line, existing, point # text, chain name	BCOL	0	2	4
34		County line, existing, line	BCOL	6	2	6
35		County line, existing, line description	BCOL	0	2	4
CITY LIMIT LINE						
33		City limit line, existing, point symbol	BCTL	7	4	4
55		City limit line, existing, point # text, chain name	BCTL	0	4	4
34		City limit line, existing, line	BCTL	7	4	0
35		City limit line, existing, line description	BCTL	0	4	4
GEORGIA MILITIA DISTRICT						
33		Georgia militia district, existing, point symbol	BGMD	4	5	4
56		Georgia militia district, existing, point # text, chain name	BGMD	0	5	4
34		Georgia militia district, existing, line	BGMD	4	5	4
35		Georgia militia district, existing, line description	BGMD	0	5	4

PROP

MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAICE Feature Code	Microstation Line Style or Cell	Color	Weight
LAND DISTRICT LINE						
33		Land district line, existing, point symbol	BLDL	4	6	4
57		Land district line, existing, point # text, chain name	BLDL	0	6	4
34		Land district line, existing, line	BLDL	4	6	4
35		Land district line, existing, line description	BLDL	0	6	4
LAND LOT LINE						
33		Land lot line, existing, point symbol	BLLL	6	7	4
58		Land lot line, existing, point # text, chain name	BLLL	0	7	4
34		Land lot line, existing, line	BLLL	6	7	4
35		Land lot line, existing, line description	BLLL	0	7	4
CALCULATED EXISTING ALIGNMENT						
CENTERLINE						
43		A field survey Alignment centerline point symbol	ACL	0	0	4
44		A field survey Alignment centerline point # text	ACL	0	0	4
45		A field survey Alignment point symbol description	ACL	0	0	4
46		A field survey Alignment centerline elevation	ACL	0	0	4
47		A field survey Alignment centerline line	ACL	0	2	4
48		A field survey Alignment centerline description	ACL	0	0	4
49		A field survey Alignment centerline tics -- (N/A)	ACL	0	0	4
50		A field survey Alignment PC/PT -- (N/A)	ACL	0	0	4
51		A field survey Alignment bearings, route #, road name.etc.		0	0	4
52		A field survey Alignment curve data -- (N/A)		0	0	4

PROP

MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAICE Feature Code	Microstation Line Style or Cell	Color	Weight
Field Located POINT ON CURVE						
43		Point on curve, existing, point symbol	APOC	2	0	4
44		Point on curve, existing, point # text	APOC	0	0	4
45		Point on curve, existing, description	APOC	0	0	4
46		Point on curve, existing, existing, elevation	APOC	0	0	4
Field Located POINT OF INTERSECTION						
43		Point of intersection, existing, point symbol	API	2	0	4
44		Point of intersection, existing, point # text	API	0	0	4
45		Point of intersection, existing, description	API	0	0	4
46		Point of intersection, existing, elevation	API	0	0	4
Field Located POINT OF TANGENCY						
43		Point of tangency, existing, point symbol	APT	2	0	4
44		Point of tangency, existing, point # text	APT	0	0	4
45		Point of tangency, existing, description	APT	0	0	4
46		Point of tangency, existing, elevation	APT	0	0	4
Field Located POINT ON TANGENCY						
43		Point on tangency, existing, point symbol	APOT	2	0	4
44		Point on tangency, existing, point # text	APOT	0	0	4
45		Point on tangency, existing, description	APOT	0	0	4
46		Point on tangency, existing, elevation	APOT	0	0	4

PROP

MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAICE Feature Code	Microstation Line Style or Cell	Color	Weight
Field Located POINT OF CURVATURE						
43		Point of curvature, existing, point symbol	APC	2	0	4
44		Point of curvature, existing, point # text	APC	0	0	4
45		Point of curvature, existing, description	APC	0	0	4
46		Point of curvature, existing, elevation	APC	0	0	4

TOPO

MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAICE Feature Code	Microstation Line Style or Cell	Color	Weight
DESCRIPTION						
EDGE OF ASPHALT PAVEMENT						
1		Edge of asphalt pavement, existing line	TEAP	2	5	0
2		Edge of asphalt pavement, existing line description	TEAP	0	5	0
49		Edge of asphalt pavement, existing point symbol, # text, description, elevation	TEAP	2	4	0
EDGE OF ASPHALT SHOULDER						
1		Edge of asphalt shoulder, existing line	TEAS	2	1	0
2		Edge of asphalt shoulder, existing line description	TEAS	0	1	0
49		Edge of asphalt shoulder, existing point symbol, # text, description, elevation	TEAS	2	4	0
EDGE OF CONCRETE PAVEMENT						
1		Edge of concrete pavement, existing line	TECP	2	7	0
2		Edge of concrete pavement, existing line description	TECP	0	7	0
49		Edge of concrete pavement, existing point symbol, # text, description, elevation	TECP	2	4	0
EDGE OF DIRT ROAD						
1		Edge of dirt road, existing line	TEDR	2	11	0
2		Edge of dirt road, existing line description	TEDR	0	11	0
49		Edge of dirt road, existing point symbol, # text, description, elevation	TEDR	2	4	0
DIRT ROAD, C/L, EXISTING						
49		Dirt road, C/L, existing line	TDR	6	11	0
49		Dirt road, C/L, existing line description	TDR	0	11	0
49		Dirt road, C/L, existing point symbol, # text, description, elevation	TDR	2	4	0

TOPO

MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAICE Feature Code	Microstation Line Style or Cell	Color	Weight
EDGE OF SURFACE TREATMENT						
1		Edge of surface treatment road, existing line	TEST	2	9	0
2		Edge of surface treatment road, existing line description	TEST	0	9	0
49		Edge of surface treatment road, existing point symbol, # text, description, elevation	TEST	2	4	0
EDGE OF DIRT DRIVE						
3		Dirt drive, edge, existing line	TEDD	2	11	0
4		Dirt drive, edge, existing line description	TEDD	0	11	0
49		Dirt drive, edge, existing point symbol, # text, description, elevation	TEDD	2	4	0
DIRT DRIVE, C/L, EXISTING						
49		Dirt drive, C/L, existing line	TDD	6	11	0
49		Dirt drive, C/L, existing line description	TDD	0	11	0
49		Dirt drive, C/L, existing point symbol, # text, description, elevation	TDD	2	4	0
EDGE OF ASPHALT DRIVE						
3		Edge of asphalt drive, existing line	TEAD	2	5	0
4		Edge of asphalt drive, existing line description	TEAD	0	5	0
49		Edge of asphalt drive, existing point symbol, # text, description, elevation	TEAD	2	4	0
EDGE OF CONCRETE DRIVE						
3		Edge of concrete drive, existing line	TECD	2	7	0
4		Edge of concrete drive, existing line description	TECD	0	7	0
49		Edge of concrete drive, existing point symbol, # text, description, elevation	TECD	2	4	0

TOPO

MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAICE Feature Code	Microstation Line Style or Cell	Color	Weight
CURB, ASPHALT EXISTING						
5		Curb, asphalt, existing line	TAC	2	5	0
6		Curb, asphalt, existing line description	TAC	0	5	0
49		Curb, asphalt, existing point symbol, # text, description, elevation	TAC	2	4	0
CURB & GUTTER, F/L						
5		Curb & gutter, F/L, existing line	TCGF	2	7	0
6		Curb & gutter, F/L, existing line description	TCGF	0	7	0
49		Curb & gutter, F/L, existing point symbol, # text, description, elevation	TCGF	2	4	0
CURB & GUTTER, TOP						
5		Curb & gutter, top, existing line	TCGT	2	7	0
6		Curb & gutter, top, existing line description	TCGT	0	7	0
49		Curb & gutter, top, existing point symbol, # text, description, elevation	TCGT	2	4	0
HEADER CURB, EXISTING						
5		Header curb, existing line	THC	2	7	0
6		Header curb, existing line description	THC	0	7	0
49		Header curb, existing point symbol, # text, description, elevation	THC	2	4	0
V-GUTTER, EXISTING						
5		V-gutter, existing line	TVG	2	7	0
6		V-gutter, existing line description	TVG	0	7	0
49		V-gutter, existing point symbol, # text, description, elevation	TVG	2	4	0

TOPO

MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAICE Feature Code	Microstation Line Style or Cell	Color	Weight
SIDEWALK, EDGE, EXISTING						
7		Sidewalk, edge, existing line	TSW	2	7	0
8		Sidewalk, edge, existing line description	TSW	0	7	0
49		Sidewalk, edge, existing point symbol, # text, description, elevation	TSW	2	4	0
GUARD RAIL, EXISTING						
9		Guard rail, existing line	TGR	2	12	0
10		Guard rail, existing line description	TGR	0	12	0
50		Guard rail, existing point symbol, # text, description, elevation	TGR	2	4	0
BRIDGE, APPROACH SLAB, EDGE						
11		Bridge approach slab, edge, existing line	TBAS	2	15	0
12		Bridge approach slab, edge, existing line description	TBAS	0	15	0
50		Bridge approach slab, edge, existing point symbol, # text, description, elevation	TBAS	2	4	0
BRIDGE GUTTER LINE, EXISTING						
11		Bridge gutter line, existing line	TBGL	2	15	0
12		Bridge gutter line, existing line description	TBGL	0	15	0
50		Bridge gutter line, existing point symbol, # text, description, elevation	TBGL	2	4	0
BRIDGE END, CENTER						
11		Bridge end, center, existing line	TBRDGCEN	2	15	0
12		Bridge end, center, existing line description	TBRDGCEN	0	15	0
50		Bridge end, center, existing point symbol, # text, description, elevation	TBRDGCEN	2	4	0

TOPO

MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAICE Feature Code	Microstation Line Style or Cell	Color	Weight
BRIDGE END, CORNER						
11		Bridge end, corner, existing line	TBRDGCOR	2	15	0
12		Bridge end, corner, existing line description	TBRDGCOR	0	15	0
50		Bridge end, corner, existing point symbol, # text, description, elevation	TBRDGCOR	2	4	0
HISTORICAL MONUMENT						
11		Historical monument, existing point cell	THM	2	3	0
12		Historical monument, existing line description	THM	0	3	0
12		Historical monument, existing point symbol, # text, description, elevation	THM	2	3	0
FLAG POLE						
11		Flag pole, existing point cell	TFP	2	3	0
12		Flag pole, existing line description	TFP	0	3	0
50		Flag pole, existing point symbol, # text, description, elevation	TFP	2	4	0
RAILROAD CENTERLINE, EXISTING						
50		Railroad centerline, existing line	TRCL	6	15	0
50		Railroad centerline, existing line description	TRCL	0	15	0
50		Railroad centerline, existing point symbol, # text, description, elevation	TRCL	2	4	0
RAILROAD, TOP OF RAIL, EXISTING						
13		Railroad, top of rail, existing line	TRCR	0	15	0
14		Railroad, top of rail, existing line description	TRCR	0	15	0
50		Railroad, top of rail, existing point symbol, # text, description, elevation	TRCR	2	4	0

TOPO

MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAICE Feature Code	Microstation Line Style or Cell	Color	Weight
RAILROAD, TOP OF RAIL (Mapping)						
13		Railroad, top of rail, existing line	TRCRE	2	15	0
14		Railroad, top of rail, existing line description	TRCRE	0	15	0
50		Railroad, top of rail, existing point symbol, # text, description, elevation	TRCRE	2	4	0
RAILROAD SIGNAL, POLES, LIGHTS, ETC., EXISTING						
15		Railroad Signal, Poles, Lights, etc., existing symbol	TRCR	2	15	0
16		Railroad Signal, Poles, Lights, etc., existing description	TRCR	2	15	0
50		Railroad Signal, Poles, Lights, etc., existing point symbol, # text, description, elevation	TRCR	2	4	0
BUILDING CORNER						
17		Building corner, existing line	TBLD	2	0	0
18		Building corner, existing line description	TBLD	0	0	0
50		Building corner, existing point symbol, # text, description, elevation	TBLD	2	4	0
BUILDING ROOF LINE, CORNER						
17		Building roof line corner, existing line	TBLDRL	2	0	0
18		Building roof line corner, existing line description	TBLDRL	0	0	0
50		Building roof line corner, existing point symbol, # text, description, elevation	TBLDRL	2	4	0
UNCOVERED DECK						
17		Uncovered deck, existing line	TUD	2	0	0
18		Uncovered deck, existing line description	TUD	0	0	0
50		Uncovered deck, existing point symbol, # text, description, elevation	TUD	2	4	0

TOPO

MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAICE Feature Code	Microstation Line Style or Cell	Color	Weight
STEPS						
17		Steps, existing line	TS	2	0	0
18		Steps, existing line description	TS	0	0	0
50		Steps, existing point symbol, # text, description, elevation	TS	2	4	0
BRICK COLUMN						
17		Brick Column, existing line	TBC	2	0	0
18		Brick Column, existing line description	TBC	0	0	0
50		Brick Column, existing point symbol, # text, description, elevation	TBC	2	4	0
FLOOR ELEVATION						
17		Floor elevation, existing line	TFE	2	0	0
18		Floor elevation, existing line description	TFE	0	0	0
50		Floor elevation, existing point symbol, # text, description, elevation	TFE	2	4	0
SEPTIC TANK, CENTER						
17		Septic tank, existing line	DSTC	2	7	0
18		Septic tank, existing line description	DSTC	0	7	0
50		Septic tank, existing point symbol, # text, description, elevation	DSTC	2	4	0
DRAIN LINES						
17		Drain lines, existing line	DDL	2	7	0
18		Drain lines, existing line description	DDL	0	7	0
50		Drain lines, existing point symbol, # text, description, elevation	DDL	2	4	0
CANOPY						
17		Canopy, existing line	TCAN	2	0	0
18		Canopy, existing line description	TCAN	0	0	0
50		Canopy, existing point symbol, # text, description, elevation	TCAN	2	4	0

TOPO

MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAICE Feature Code	Microstation Line Style or Cell	Color	Weight
HOUSE CORNER, EXISTING						
17		House corner, existing line	THCR	2	0	0
18		House corner, existing line description	THCR	0	0	0
50		House corner, existing point symbol, # text, description, elevation	THCR	2	4	0
HOUSE ROOF LINE CORNER, EXISTING						
17		House roof line corner, existing line	THRL	2	0	0
18		House roof line corner, existing line description	THRL	0	0	0
50		House roof line corner, existing point symbol, # text, description, elevation	THRL	2	4	0
MOBILE HOME CORNER, EXISTING						
17		Mobile home corner, existing line	TMHCR	2	0	0
18		Mobile home corner, existing line description	TMHCR	0	0	0
50		Mobile home corner, existing point symbol, # text, description, elevation	TMHCR	2	4	0
MOBILE HOME ROOF LINE CORNER, EXISTING						
17		Mobile home roof line corner, existing line	TMHRL	2	0	0
18		Mobile home roof line corner, existing line description	TMHRL	0	0	0
50		Mobile home roof line corner, existing point symbol, # text, description, elevation	TMHRL	2	4	0
FENCE, CHAIN LINK, EXISTING						
19		Fence, chain link, existing line	TFCL	Fence	7	0
20		Fence, chain link, existing line description	TFCL	0	7	0
51		Fence, chain link, existing point symbol, # text, description, elevation	TFCL	2	4	0

TOPO

MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAICE Feature Code	Microstation Line Style or Cell	Color	Weight
FENCE, WOOD						
19		Fence, wood, existing line	TFW	Fence	2	0
20		Fence, wood, existing line description	TFW	0	2	0
51		Fence, wood, existing point symbol, # text, description, elevation	TFW	2	4	0
FENCE, BARBED WIRE, EXISTING						
19		Fence, barbed wire, existing line	TFBW	Fence	9	0
20		Fence, barbed wire, existing line description	TFBW	0	9	0
51		Fence, barbed wire, existing point symbol, # text, description, elevation	TFBW	2	4	0
FENCE, FIELD WIRE, EXISTING						
19		Fence, field wire, existing line	TFFW	Fence	11	0
20		Fence, field wire, existing line description	TFFW	0	11	0
51		Fence, field wire, existing point symbol, # text, description, elevation	TFFW	2	4	0
FENCE, VINYL (PVC)						
19		Fence, pvc, existing line	TVF	Fence	2	0
20		Fence, pvc, existing line description	TVF	0	2	0
51		Fence, pvc, existing point symbol, # text, description, elevation	TVF	2	4	0
GATE, EXISTING						
19		Gate, existing line	TG	2	7	0
20		Gate, existing line description	TG	0	7	0
51		Gate, existing point symbol, # text, description, elevation	TG	2	4	0

TOPO

MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAICE Feature Code	Microstation Line Style or Cell	Color	Weight
WELL, EXISTING						
21		Well, existing point point cell	TWELL	2	7	0
22		Well, existing line description	TWELL	0	7	0
51		Well, existing point symbol, # text, description, elevation	TWELL	2	4	0
GASOLINE FILLER VALVE						
21		Gasoline filler valve, existing point cell	TGFV	2	6	0
22		Gasoline filler valve, existing line description	TGFV	0	6	0
51		Gasoline filler valve, existing point symbol, # text, description, elevation	TGFV	2	52	0
GASOLINE MONITORING WELL						
21		Gasoline monitoring well, existing point cell	TGMW	2	52	0
22		Gasoline monitoring well, existing line description	TGMW	0	52	0
51		Gasoline monitoring well, existing point symbol, # text, description, elevation	TGMW	2	52	0
GASOLINE PUMP, EXISTING						
21		Gasoline pump, existing point cell	TGP	2	6	0
22		Gasoline pump, existing line description	TGP	0	6	0
51		Gasoline pump, existing point symbol, # text, description, elevation	TGP	2	52	0
GASOLINE PUMP ISLAND, EXISTING						
21		Gasoline pump island, existing line	TGPI	2	6	0
22		Gasoline pump island, existing line description	TGPI	0	6	0
51		Gasoline pump island, existing point symbol, # text, description, elevation	TGPI	2	52	0

TOPO

MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAICE Feature Code	Microstation Line Style or Cell	Color	Weight
FUEL TANK						
21		Fuel tank, existing line	TFT	2	6	0
22		Fuel tank, existing line description	TFT	0	6	0
51		Fuel tank, existing point symbol, # text, description, elevation	TFT	2	52	0
GASOLINE STORAGE TANK, END						
21		Gasoline storage tank, end, existing line	TGST	2	6	0
22		Gasoline storage tank, end, existing line description	TGST	0	6	0
51		Gasoline storage tank, end, existing point symbol, # text, description, elevation	TGST	2	52	0
GASOLINE VENT PIPE, EXISTING						
21		Gasoline vent pipe, existing point cell	TGVP	2	6	0
22		Gasoline vent pipe, existing line description	TGVP	0	6	0
51		Gasoline vent pipe, existing point symbol, # text, description, elevation	TGVP	2	52	0
CULVERT END, FLOW LINE						
23		Culvert end, F/L cell	DCEF	2	1	0
24		Culvert end, F/L line description (Elevation, type, size, etc.)	DCEF	0	1	0
51		Culvert end, F/L point symbol, # text, description, elevation	DCEF	2	4	0
SINGLE CATCH BASIN, GUTTER F/L						
23		Single catch basin existing point cell	DCB	2	1	0
24		Single catch basin existing description (Elevation, type, size, etc.)	DCB	0	1	0
51		Single catch basin existing point symbol, # text, description, elevation	DCB	2	4	0

TOPO

MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAICE Feature Code	Microstation Line Style or Cell	Color	Weight
CULVERT, WINGWALL END						
23		Culvert, wingwall end line/cell	DCWE	2	1	0
24		Culvert, wingwall end line description (Elevation, type, size, etc.)	DCWE	0	1	0
51		Culvert, wingwall end point symbol, # text, description, elevation	DCWE	2	4	0
DOUBLE CATCH BASIN, GUTTER F/L						
23		Double catch basin existing point cell	DDCB	2	1	0
24		Double catch basin existing description (Elevation, type, size, etc.)	DDCB	0	1	0
51		Double catch basin existing point symbol, # text, description, elevation	DDCB	2	4	0
DROP INLET, TOP						
23		Drop inlet, top, existing cell	DDI	2	1	0
24		Drop inlet, top, existing description (Elevation, type, size, etc.)	DDI	0	1	0
51		Drop inlet, top, existing point symbol, # text, description, elevation	DDI	2	4	0
HEAD WALL, END						
23		Head wall, end, existing cell	DHWE	2	1	0
24		Head wall, end, existing line description (Elevation, type, size, etc.)	DHWE	0	1	0
51		Head wall, end, existing point symbol, # text, description, elevation	DHWE	2	4	0
JUNCTION BOX, TOP						
23		Junction box, top, existing cell	DJB	2	1	0
24		Junction box, top, existing line description (Elevation, type, size, etc.)	DJB	0	1	0
51		Junction box, top, existing point symbol, # text, description, elevation	DJB	2	4	0

TOPO

MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAICE Feature Code	Microstation Line Style or Cell	Color	Weight
DRAINAGE PIPE, F/L, C						
23		Drainage pipe, F/L,C existing line	DPC	6	1	0
24		Drainage pipe, F/L,C existing line description (Elevation, type, size, etc.)	DPC	0	1	0
51		Drainage pipe, F/L,C existing point symbol, # text, description, elevation	DPC	6	4	0
DRAINAGE PIPE, F/L, M						
23		Drainage pipe, F/L,M existing line	DPM	6	1	0
24		Drainage pipe, F/L,M existing line description (Elevation, type, size, etc.)	DPM	0	1	0
51		Drainage pipe, F/L,M existing point symbol, # text, description, elevation	DPM	6	4	0
DRAINAGE PIPE, F/L, P						
23		Drainage pipe, F/L,P existing line	DPP	6	1	0
24		Drainage pipe, F/L,P existing line description (Elevation, type, size, etc.)	DPP	0	1	0
51		Drainage pipe, F/L,P existing point symbol, # text, description, elevation	DPP	6	4	0
DITCH FLOW LINE (Mapping)						
25		Ditch flow line, existing line	MDITCHFL	6	1	0
26		Ditch flow line, existing line description (Elevation, type, size, etc.)	MDITCHFL	0	1	0
51		Ditch flow line, existing point symbol, # text, description, elevation	MDITCHFL	6	4	0
PAVED DITCH						
25		Paved ditch, existing line	DPD	6	1	0
26		Paved ditch, existing line description (Elevation, type, size, etc.)	DPD	0	1	0
51		Paved ditch, existing point symbol, # text, description, elevation	DPD	6	4	0

TOPO

MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAICE Feature Code	Microstation Line Style or Cell	Color	Weight
STREAM BANK TOP						
25		Stream bank top, existing line	DSB	2	1	0
26		Stream bank top, existing line description (Elevation, type, size, etc.)	DSB	0	1	0
51		Stream bank top, existing point symbol, # text, description, elevation	DSB	2	4	0
STREAM CENTER F/L						
25		Stream center F/L, existing line	DSC	6	1	0
26		Stream center F/L, existing line description (Elevation, type, size, etc.)	DSC	0	1	0
51		Stream center F/L, existing point symbol, # text, description, elevation	DSC	2	4	0
STREAM EDGE						
25		Stream edge, existing line	DSE	2	1	0
26		Stream edge, existing line description (Elevation, type, size, etc.)	DSE	0	1	0
51		Stream edge, existing point symbol, # text, description, elevation	DSE	2	4	0
RIVER EDGE						
25		River edge, existing line	RIVERED	2	1	0
26		River edge, existing line description (Elevation, type, size, etc.)	RIVERED	0	1	0
51		River edge, existing point symbol, # text, description, elevation	RIVERED	2	4	0
TOP OF WATER ELEVATION						
25		Top of water elevations, existing line	DWE	2	1	0
26		Top of water elevations, existing line description (Elevation, type, size, etc.)	DWE	0	1	0
51		Top of water elevations, existing point symbol, # text, description, elevation	DWE	2	4	0

TOPO

MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAICE Feature Code	Microstation Line Style or Cell	Color	Weight
EDGE OF WATER						
25		Edge of water, existing line	DEW	2	1	0
26		Edge of water, existing line description (Elevation, type, size, etc.)	DEW	0	1	0
51		Edge of water, existing point symbol, # text, description, elevation	DEW	2	4	0
HIGH WATER MARK						
25		High water mark, existing line	DHWM	2	1	0
26		High water mark, existing line description (Elevation, type, size, etc.)	DHWM	0	1	0
51		High water mark, existing point symbol, # text, description, elevation	DHWM	2	4	0
SWAMP EDGE						
25		Swamp edge, existing line	DSWE	2	1	0
26		Swamp edge, existing line description (Elevation, type, size, etc.)	DSWE	0	1	0
51		Swamp edge, existing point symbol, # text, description, elevation	DSWE	2	4	0
LAKE						
25		Lake, existing line	LAKE	2	1	0
26		Lake, existing line description (Elevation, type, size, etc.)	LAKE	0	1	0
51		Lake, existing point symbol, # text, description, elevation	LAKE	2	4	0
MISC. DRAINAGE FEATURE						
25		Misc. drainage feature, existing line	DMISC	2	1	0
26		Misc. drainage feature, existing line description (Elevation, type, size, etc.)	DMISC	0	1	0
51		Misc. drainage feature, existing point symbol, # text, description, elevation	DMISC	2	4	0

TOPO

MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAICE Feature Code	Microstation Line Style or Cell	Color	Weight
WALL FACE						
27		Wall face, existing line	TWF	2	7	0
28		Wall face, existing line description	TWF	0	7	0
52		Wall face, existing point symbol, # text, description, elevation	TWF	2	4	0
WALL FACE, TOP						
27		Wall face, top, existing line	TWFT	2	7	0
28		Wall face, top, existing line description	TWFT	0	7	0
52		Wall face, top, existing point symbol, # text, description, elevation	TWFT	2	4	0
WALL FACE, BOTTOM						
27		Wall face, bottom, existing line	TWFB	2	7	0
28		Wall face, bottom, existing line description	TWFB	0	7	0
52		Wall face, bottom, existing point symbol, # text, description, elevation	TWFB	2	4	0
SATELLITE DISH						
29		Satellite dish, existing point cell	TSATDSH	2	12	0
30		Satellite dish, existing line description	TSATDSH	0	12	0
52		Satellite dish, existing point symbol, # text, description, elevation	TSATDSH	2	4	0
WOODS LINE						
31		Woods line, existing line	TWL	0	2	0
32		Woods line, existing line description	TWL	0	2	0
52		Woods line, existing point symbol, # text, description, elevation	TWL	2	4	0

TOPO

MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAICE Feature Code	Microstation Line Style or Cell	Color	Weight
TREE, CENTER						
31		Tree, center, existing point cell	TTRE	2	2	0
32		Tree, center, existing line description	TTRE	0	2	0
52		Tree, center, existing point symbol, # text, description, elevation	TTRE	2	4	0
GRAVE						
33		Grave, existing line	TGRV	2	3	0
34		Grave, existing line description	TGRV	0	3	0
52		Grave, existing point symbol, # text, description, elevation	TGRV	2	4	0
DAM, TOE						
35		Dam, toe line	DADB	2	11	0
36		Dam, toe line description	DADB	0	11	0
53		Dam, toe point symbol, # text, description, elevation	DADB	2	4	0
DAM, TOP						
35		Dam, top line	DDT	2	11	0
36		Dam, top line description	DDT	0	11	0
53		Dam, top point symbol, # text, description, elevation	DDT	2	4	0
SPUR DIKE						
35		Spur dike, existing line	DSPURDK	2	11	0
36		Spur dike, existing line description (elevation, type, size, etc.)	DSPURDK	0	11	0
53		Spur dike, existing point symbol, # text, description, elevation	DSPURDK	2	4	0

TOPO

MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAICE Feature Code	Microstation Line Style or Cell	Color	Weight
MARKER, MISCELLANEOUS						
37		Marker miscellaneous, existing point cell	TMAR	2	7	0
38		Marker miscellaneous, existing line description	TMAR	0	7	0
53		Marker miscellaneous, existing point symbol, # text, description, elevation	TMAR	2	4	0
MILE POST, HIGHWAY						
37		Mile post, highway, existing point cell	TMPH	2	12	0
38		Mile post, highway, existing line description	TMPH	0	12	0
53		Mile post, highway, existing point symbol, # text, description, elevation	TMPH	2	4	0
KM POST, HIGHWAY						
37		Kilometer post, highway, existing point cell	TKMP	2	12	0
38		Kilometer post, highway, existing line description	TKMP	0	12	0
53		Kilometer post, highway, existing point symbol, # text, description, elevation	TKMP	2	4	0
MILE POST, RAILROAD						
37		Mile post, railroad, existing point cell	TMPR	2	12	0
38		Mile post, railroad, existing line description	TMPR	0	12	0
53		Mile post, railroad, existing point symbol, # text, description, elevation	TMPR	2	4	0
SIGN, CENTER						
37		Sign, center, existing point cell	TSC	2	12	0
38		Sign, center, existing line description	TSC	0	12	0
53		Sign, center, existing point symbol, # text, description, elevation	TSC	2	4	0

TOPO

MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAICE Feature Code	Microstation Line Style or Cell	Color	Weight
SIGN, END						
37		Sign, end, existing point cell	TSE	2	12	0
38		Sign, end, existing line description	TSE	0	12	0
53		Sign, end, existing point symbol, # text, description, elevation	TSE	2	4	0
IRRIGATION LIMIT						
39		Irrigation limit, existing line	TIRRLMT	2	1	0
40		Irrigation limit, existing line description	TIRRLMT	0	1	0
53		Irrigation limit, existing point symbol, # text, description, elevation	TIRRLMT	2	4	0
IRRIGATION PUMP TURNING POINT						
39		Irrigation pump turning point, existing point line/cell	TIRRPVTP	2	1	0
40		Irrigation pump turning point, existing line description	TIRRPVTP	0	1	0
53		Irrigation pump turning point, existing point symbol, # text, description, elevation	TIRRPVTP	2	4	0
CULTIVATION LINE						
39		Cultivation line, existing line	TCUL	2	2	0
40		Cultivation line, existing line description	TCUL	0	2	0
53		Cultivation line, existing point symbol, # text, description, elevation	TCUL	2	4	0
BRIDGE CAP						
41		Bridge cap, existing line	TBCAP	2	14	0
42		Bridge cap, existing line description	TBCAP	0	14	0
53		Bridge cap, existing point symbol, # text, description, elevation	TBCAP	2	4	0

TOPO

MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAICE Feature Code	Microstation Line Style or Cell	Color	Weight
BRIDGE COLUMN, CORNER						
41		Bridge column (corner), existing line/cell	TBCL	2	14	0
42		Bridge column (corner), existing line description	TBCL	0	14	0
53		Bridge column (corner), existing point symbol, # text, description, elevation	TBCL	2	4	0
BRIDGE COLUMN, EDGE						
41		Bridge column (edge), existing line/cell	TCOLE	2	14	0
42		Bridge column (edge), existing line description	TCOLE	0	14	0
53		Bridge column (edge), existing point symbol, # text, description, elevation	TCOLE	2	4	0
BRIDGE COLUMN, CENTER						
41		Bridge column (center), existing line/cell	TCOLC	2	14	0
42		Bridge column (center), existing line description	TCOLC	0	14	0
53		Bridge column (center), existing point symbol, # text, description, elevation	TCOLC	2	4	0
BRIDGE END ROLL						
41		Bridge, end roll, existing line	TENDROLL	2	14	0
42		Bridge, end roll, existing line description	TENDROLL	0	14	0
53		Bridge, end roll, existing point symbol, # text, description, elevation	TENDROLL	2	4	0
TOPO, MISCELLANEOUS						
43		Topo, miscellaneous area, existing point cell	MISC	2	0	0
44		Topo, miscellaneous area, existing line	MISC	2	0	0
45		Topo, miscellaneous area, existing line description	MISC	0	0	0
54		Topo, miscellaneous area, existing point symbol, # text, description, elevation	MISC	2	4	0

TOPO

MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAICE Feature Code	Microstation Line Style or Cell	Color	Weight
OVERHEAD SIGNS						
54		Sign structure and strain poles	USTRPOL	2	0	2
59		Span wire	USTRPOL	2	0	2
60		Sign notes, leader lines, codes	USTRPOL	0	0	2
OVERHEAD ELECTRICAL LINE						
46		Topo, existing point cell	UOEL	2	3	2
47		Topo, existing line description	UOEL	0	3	2
48		Topo, existing line	UOEL	EXOHE	3	2
OVERHEAD TELEPHONE LINE						
46		Topo, existing point cell	UOTL	2	6	2
47		Topo, existing line description	UOTL	0	6	2
48		Topo, existing line	UOTL	EXOHT	6	2
ELECTRICAL BOX						
46		Topo, existing point cell	UELBOX	2	3	2
47		Topo, existing line description	UELBOX	0	3	2
48		Topo, existing line	UELBOX	2	3	2
POWER POLE, CENTER						
46		Topo, existing point cell	UPP	2	3	2
47		Topo, existing line description	UPP	0	3	2
48		Topo, existing line	UPP	2	3	2

TOPO

MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAICE Feature Code	Microstation Line Style or Cell	Color	Weight
LIGHT POLE, CENTER						
46		Topo, existing point cell	ULP	2	3	2
47		Topo, existing line description	ULP	0	3	2
48		Topo, existing line	ULP	2	3	2
TELEPHONE POLE, CENTER						
46		Topo, existing point cell	UTP	2	6	2
47		Topo, existing line description	UTP	0	6	2
48		Topo, existing line	UTP	2	6	2
TELEPHONE PEDESTAL, CENTER						
46		Topo, existing point cell	UTPD	2	6	2
47		Topo, existing line description	UTPD	0	6	2
48		Topo, existing line	UTPD	2	6	2
GUY POLE, CENTER						
46		Topo, existing point cell	UGP	2	0	2
47		Topo, existing line description	UGP	0	0	2
48		Topo, existing line	UGP	2	0	2
POLE ANCHOR						
46		Topo, existing point cell	UPGA	2	0	2
47		Topo, existing line description	UPGA	0	0	2
48		Topo, existing line	UPGA	2	0	2

TOPO

MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAICE Feature Code	Microstation Line Style or Cell	Color	Weight
YARD LIGHT, ELECTRICAL						
46		Topo, existing point cell	UYLE	2	3	2
47		Topo, existing line description	UYLE	0	3	2
48		Topo, existing line	UYLE	2	3	2
YARD LIGHT, GAS						
46		Topo, existing point cell	UYLG	2	52	2
47		Topo, existing line description	UYLG	0	52	2
48		Topo, existing line	UYLG	2	52	2
WATER METER, CENTER						
46		Topo, existing point cell	UWM	2	1	2
47		Topo, existing line description	UWM	0	1	2
48		Topo, existing line	UWM	2	1	2
WATER VALVE						
46		Topo, existing point cell	UWV	2	1	2
47		Topo, existing line description	UWV	0	1	2
48		Topo, existing line	UWV	2	1	2
FIRE HYDRANT, CENTER						
46		Topo, existing point cell	UFH	2	1	2
47		Topo, existing line description	UFH	0	1	2
48		Topo, existing line	UFH	2	1	2

TOPO

MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAICE Feature Code	Microstation Line Style or Cell	Color	Weight
MANHOLE, STORM SEWER, TOP						
46		Topo, existing point cell	UMHST	2	1	2
47		Topo, existing line description	UMHST	0	1	2
48		Topo, existing line	UMHST	2	1	2
MANHOLE, STORM SEWER, F/L						
46		Topo, existing point cell	UMHSTF	2	1	2
47		Topo, existing line description	UMHSTF	0	1	2
48		Topo, existing line	UMHSTF	2	1	2
MANHOLE, TELEPHONE, TOP						
46		Topo, existing point cell	UMHT	2	6	2
47		Topo, existing line description	UMHT	0	6	2
48		Topo, existing line	UMHT	2	6	2
MANHOLE, ELECTRICAL, TOP						
46		Topo, existing point cell	UMHE	2	3	2
47		Topo, existing line description	UMHE	0	3	2
48		Topo, existing line	UMHE	2	3	2
MANHOLE, SANITARY SEWER, TOP						
46		Topo, existing point cell	UMHSS	2	2	2
47		Topo, existing line description	UMHSS	0	2	2
48		Topo, existing line	UMHSS	2	2	2

TOPO

MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAICE Feature Code	Microstation Line Style or Cell	Color	Weight
MANHOLE, SANITARY SEWER, F/L						
46		Topo, existing point cell	UMHSSF	2	2	2
47		Topo, existing line description	UMHSSF	0	2	2
48		Topo, existing line	UMHSSF	2	2	2
SANITARY SEWER LINE, CENTER						
46		Topo, existing point cell	USSL	2	2	2
47		Topo, existing line description	USSL	0	2	2
48		Topo, existing line	USSL	2	2	2
GAS METER, CENTER						
46		Topo, existing point cell	UGM	2	52	2
47		Topo, existing line description	UGM	0	52	2
48		Topo, existing line	UGM	2	52	2
GAS VALVE, CENTER						
46		Topo, existing point cell	UNGV	2	52	2
47		Topo, existing line description	UNGV	0	52	2
48		Topo, existing line	UNGV	2	52	2
GAS VENT PIPE						
46		Topo, existing point cell	UNGVP	2	52	2
47		Topo, existing line description	UNGVP	0	52	2
48		Topo, existing line	UNGVP	2	52	2

TOPO

MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAICE Feature Code	Microstation Line Style or Cell	Color	Weight
GAS LINE MARKER						
46		Topo, existing point cell	UNGLM	2	52	2
47		Topo, existing line description	UNGLM	0	52	2
48		Topo, existing line	UNGLM	2	52	2
LOCATION SURVEY CONTROL DELTA						
57		Location survey control point # text, description, point elevation	SLCD	0	14	0
58		Location survey control delta symbol	SLCD	2	14	0
58		Location survey control line	SLCD	2	14	0
58		Location survey control line description	SLCD	0	14	0
DISTRICT SURVEY CONTROL DELTA						
57		District survey control point # text, description, point elevation	SDCD	0	14	0
58		District survey control delta symbol	SDCD	2	14	0
58		District survey control line (lines plot under another feature code)	SDCD	2	14	0
58		District survey control line description	SDCD	0	14	0
CONTROL RE-SHOT FOR CHECK						
57		Control point # text, description, point elevation	SCCHK	0	14	0
58		Control symbol	SCCHK	2	14	0
58		Control line description	SCCHK	0	14	0
BENCH MARK						
57		Bench mark, point # text, description, elevation	SBNCHMK	0	14	0
58		Bench mark, point symbol	SBNCHMK	2	14	0
58		Bench mark, point information	SBNCHMK	0	14	0

TOPO

MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAICE Feature Code	Microstation Line Style or Cell	Color	Weight
NGS CONTROL MONUMENT						
57		NGS control monument, point # text, description, elevation	SNGSCM	0	14	0
58		NGS control monument, point symbol	SNGSCM	2	14	0
58		NGS control monument, point information	SNGSCM	0	14	0
LOCATION CONTROL MONUMENT						
57		Location control monument, point # text, description, elevation	SLCM	0	14	0
58		Location control monument, point symbol	SLCM	2	14	0
58		Location control monument, point information	SLCM	0	14	0
CONSTRUCTION BOUNDARY, ACTIVE, EXISTING						
59		Construction boundary, active, existing point symbol, # text, description, elevation	TCBA	2	2	0
60		Construction boundary, active, existing line	TCBA	2	2	0
60		Construction boundary, active, existing line description	TCBA	0	2	0
CONSTRUCTION BOUNDARY, FINISHED						
59		Construction boundary, finished, existing point symbol, # text, description, elevation	TCBF	2	2	0
60		Construction boundary, finished, existing line	TCBF	2	2	0
60		Construction boundary, finished, existing line description	TCBF	0	2	0
LIMIT LINE, EXISTING						
59		Limit line, existing point symbol, # text, description, elevation	TLIML	2	0	0
60		Limit line, existing line	TLIML	2	0	0
60		Limit line, existing line description	TLIML	0	0	0

TOPO

MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAICE Feature Code	Microstation Line Style or Cell	Color	Weight
JOB LIMIT LINE (Mapping)						
59		Job limit line, existing point symbol, # text, description, elevation	MJLL	2	0	0
60		Job limit line, existing line	MJLL	2	0	0
60		Job limit line, existing line description	MJLL	0	0	0
SEW LINE (Mapping)						
59		Sew line, existing point symbol, # text, description, elevation	MSEWLINE	2	0	0
60		Job limit line, existing line	MSEWLINE	2	0	0
60		Job limit line, existing line description	MSEWLINE	0	0	0
TERRAIN POINT ON BREAK LINE						
61		Terrain point on break line, existing point symbol, # text, description, elevation	TPBL	2	1	0
62		Terrain point on break line, existing line	TPBL	2	1	0
62		Terrain point on break line, existing line description	TPBL	0	1	0
RANDOM TERRAIN POINT, EXISTING						
61		Random terrain point, existing point symbol, # text, description, elevation	TRP	2	0	0
62		Random terrain point, existing line	TRP	2	0	0
62		Random terrain point, existing line description	TRP	0	0	0
OBSCURED AREA						
61		Obscured area, existing point symbol, # text, description, elevation	DOBSC	2	3	0
62		Obscured area, existing line	DOBSC	2	3	0
62		Obscured area, existing line description	DOBSC	0	3	0

TOPO

MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAICE Feature Code	Microstation Line Style or Cell	Color	Weight
OBSCURED AREA (Mapping)						
61		Obscured area, existing point symbol, # text, description, elevation	MOBSC	2	3	0
62		Obscured area, existing line	MOBSC	2	3	0
62		Obscured area, existing line description	MOBSC	0	3	0
DEAD AREA (CANNOT READ ELEVATIONS)						
61		Dead area, existing point symbol, # text, description, elevation	DEADIN	2	3	0
62		Dead area, existing line	DEADIN	2	3	0
62		Dead area, existing line description	DEADIN	0	3	0
MAP CHECK, GROUND						
61		Map check ground point, existing point symbol, # text, description, elevation	MPCKGRD	0	3	2
62		Map check ground point, existing line	MPCKGRD	0	3	2
62		Map check ground point, existing line description	MPCKGRD	0	3	2
MAP CHECK, PAVEMENT						
61		Map check pavement point, existing point symbol, # text, description, elevation	MPCKPAV	0	7	2
62		Map check pavement point, existing line	MPCKPAV	0	7	2
62		Map check pavement point, existing line description	MPCKPAV	0	7	2

ENVE

MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAICE Feature Code	Microstation Line Style or Cell	Color	Weight
ENVE (Existing Environmental Impacts and Mitigation File)						
Wetlands						
1		Wetland Boundary, lines	DWB	0	1	1
1		Stream Delineation, lines		0	1	1
2		Wetland and Stream, description & labels		0	1	1
3		Wetlands, patterning		0	1	1
4		Wetlands, shapes for patterning		0	1	1
Ecology						
6		Endangered Species, lines & cells (delineations)		ENVIR	3	0
8		Endangered Species, description & labels		0	3	0
9		Endangered Species, patterning		0	3	0
10		Endangered Species, shapes for patterning		0	3	0
History						
11		Historic Resource, lines & cells		ENVIR	3	0
12		Historic Resource, description & labels		0	3	0
13		Historic Resource, patterning		0	3	0
14		Historic Resource, shapes for patterning		0	3	0
Archaeology						
15		Archaeological Resource, lines		ENVIR	3	0
16		Archaeological Resource, description & labels		0	3	0
17		Archaeological Resource, patterning		0	3	0
18		Archaeological Resource, shapes for patterning		0	3	0

ENVE

MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAICE Feature Code	Microstation Line Style or Cell	Color	Weight
Parklands & Cultural Resources						
20		Cultural Resource, lines & cells (delineations)		0	3	0
20		Cemetery boundary, lines	TCEM	2	3	0
21		Cultural Resource, description & labels		0	3	0
22		Cultural Resource, patterning		0	3	0
23		Cultural Resource, shapes for patterning		0	3	0
Hazardous Material Locations (UST's)						
25		Hazardous Material, lines & cells (delineations)		ENVIR	3	0
26		Hazardous Material, description & labels		0	3	0
27		Hazardous Material, patterning		0	3	0
28		Hazardous Material, shapes for patterning		0	3	0
Environmental Justice						
30		Environmental Justice, lines		ENVIR	3	0
31		Environmental Justice, description & labels		0	3	0
32		Environmental Justice, patterning		0	3	0
33		Environmental Justice, shapes for patterning		0	3	0
Environmentally Sensitive Areas (For Final Construction Plans)						
Includes Wetlands and Ecologically Significant Areas; Historic, Archaeological & Park Boundaries;						
40		ESA, lines		ENVIR	3	0
41		ESA, descriptions & labels		0	3	0
42		ESA, patterning		0	3	0
43		ESA, shapes for patterning		0	3	0

ENVP

MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAICE Feature Code	Microstation Line Style or Cell	Color	Weight
IMPACTS TO NATURAL RESOURCES AND MITIGATION						
25		Wetland impact areas, lines		ENVIR	5	2
26		Wetland impact areas, patterning		0	5	2
27		Wetland impact areas, text		0	5	2
28		Wetland Mitigation sites, lines		ENVIR	5	2
29		Wetland Mitigation sites, patterning		0	5	2
30		Wetland Mitigation sites, text		0	5	2
31		Floodplain impact areas, lines		ENVIR	5	2
32		Floodplain impact areas, patterning		0	5	2
33		Floodplain impact areas, text		0	5	2
IMPACTS TO PHYSICAL RESOURCES AND MITIGATION						
41		Impacted UST's		0	5	2
42		Noise study - receptors		0	5	2
43		Noise study - readings		0	5	2
44		Noise study - projected noise levels		0	5	2
45		Noise study - noise contours		0	5	2
46		Noise study - impacted properties		0	5	2
47		Viewshed - Visual Impacts		0	5	2

LNSC

MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAICE Feature Code	Microstation Line Style or Cell	Color	Weight
EXISTING						
1		CONIFEROUS TREE		ECTREE	3	0
2		DECIDUOUS TREE		EDTREE	3	0
3		GENERIC TREE SYMBOL		EGTREE	3	0
3		EVERGREEN TREE		EETREE	3	0
3		PINE TREE		ETREEI	3	0
4		CONIFEROUS SHRUB		ESHRC	3	0
4		DECIDUOUS SHRUB		ESHRD	3	0
6		TREE LINE		ETLINE	3	0
6		REVISION BUBBLE		EREVBU	3	0
7		SWAMP AREA		ESWAMP	3	0
8		LABELS AND NOTES		0	0	2
REMOVE						
9		LABELS AND NOTES		0	3	2
23		TREE		RTREE	3	1
PROPOSED						
9		LABELS AND NOTES		0	0	2
41		CONIFEROUS TREE		PTREEC	2	2
42		DECIDUOUS TREE		PTREED	2	2
43		GENERIC TREE SYMBOL		PGTREE	2	2
43		EVERGREEN TREE SYMBOL		PETREE	2	2
48		TREE STUMP		PSTUMP	2	2

LGHT

MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAICE Feature Code	Microstation Line Style or Cell	Color	Weight
DESCRIPTION						
1		Lighting Standard Symbol(cell)		0	1	2
2		Lighting Standard #		0	1	2
3		Lighting Standard Description		0	1	2
4		Lighting Standard Station & Offset		0	1	2
5		High Mast Lighting Tower Symbol(cell)		0	2	2
6		High Mast Lighting Tower #		0	2	2
7		High Mast Lighting Tower Description		0	2	2
8		High Mast Lighting Tower Station & Offset		0	2	2
9		Underpass Luminaire Symbol(cell)		0	3	2
10		Underpass Luminaire #		0	3	2
11		Underpass Luminaire Description		0	3	2
12		Underpass Luminaire Station & Offset		0	3	2
13		Service Point Symbol(cell)		0	4	2
14		Service Point #		0	4	2
15		Service Point Description		0	4	2
16		Service Point Station & Offset		0	4	2
17		Electrical Junction Box, Galvanized Symbol(cell)		0	2	2
18		Electrical Junction Box, Galvanized #		0	2	2
19		Electrical Junction Box, Galvanized Description		0	2	2
20		Electrical Junction Box, Galvanized Station & Offset		0	2	2

LGHT

MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAICE Feature Code	Microstation Line Style or Cell	Color	Weight
21		Electrical Junction Box, Concrete, Symbol(cell)		0	2	2
22		Electrical Junction Box, Concrete, #		0	2	2
23		Electrical Junction Box, Concrete, Description		0	2	2
24		Electrical Junction Box, Concrete, Station & Offset		0	2	2
25		Conduit, Nonmetallic Symbol(cell)		0	2	2
26		Conduit, Nonmetallic Description		0	2	2
27		Conduit, Rigid Galvanized Symbol(cell)		0	2	2
28		Conduit, Ridgid Galvanized Description		0	2	2
29		Ground Rod Symbol(cell)		0	2	2
30		Ground Rod Description		0	2	2
31		Multiconductor Cable Description		0	2	2
32		Lighting Arrester Symbol(cell)		0	2	2
33		Lighting Arrester Desription		0	2	2
34		Limits of required clearing		0	2	2
35		Electrical Legend, Notes & Details		0	0	2
		Lighting Legend				
		General Notes				
		Grounding Details				

LGHT

MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAICE Feature Code	Microstation Line Style or Cell	Color	Weight
35		Lighting Standard and High Mast Tower Data Tables		0	0	2
		Design and Construction information for each lighting standard or high mast tower installation by the structure identification number tabulated sequentially				
		Construction Centerline station and offset				
		Mounting Height				
		Mast Arm Length				
		Mounting Arrangement				
		Luminaire Schedule				
35		Lighting Layout Sheets		0	0	2
		Lighting standards/high mast towers label				
		Electrical service point label				
		Associated circuits label				
		Conductor gauge and no. of conductors				
		Standard or tower station/offset				
		Utility owner name/address/contact person				
		Limits of required clearing				
35		Underpass Lighting Layout Sheets		0	0	2
		Lighting standards/high mast towers label				
		Lighting standard/underpass luminaires no.				
		Electrical service point label				
		Associated circuits label				
		Conductor gauge and no. of conductors				
		Standard or tower station/offset				

LGHT

MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAICE Feature Code	Microstation Line Style or Cell	Color	Weight
		Utility owner name/address/contact person				
35		Lighting Detail Sheets		0	0	2
		Lowering Device details and specifications				
		Pole base details				
		Head frame and luminaire ring details				
		Electrical junction box details				
		Electrical pull box details				
		Electrical conduit stubout details				
		Luminaire mounting details				
35		Schematic Diagram Sheets		0	0	2
		Wiring Diagram				
		Service Point data				
		Circuit Breaker specifications				
		Contactors specifications				
		Circuit table				
		Conductor size and type				
		Number of conductors				
		Misc. electrical wiring specifications				
		Service Panel specifications				
35		Single Line Diagram Sheets		0	0	2
		Single Line Diagram for each service point				
		Legend of all symbols				
		Circuit breaker specifications				

LGHT

MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAICE Feature Code	Microstation Line Style or Cell	Color	Weight
		Circuit table				
		Conductor size and type				
		Number of conductors				
		Misc. electrical wiring specifications				
		Surge Suppressor specifications				
35		Lighting Foundation Detail Sheets		0	0	2
		Foundation Elevation View				
		Foundation Plan View				
		Foundation notes and details				
		Reinforcement Schedule				
		Foundation Quantities				
35		Miscellaneous Lighting and Electrical Details		0	0	2
		Details for mounting light standards on barrier walls				
		Light Standards footing details				
		Special mounting details for specific project requirements				

TRDG

MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAICE Feature Code	Microstation Line Style or Cell	Color	Weight
DESCRIPTION						
1		Lines and Arrow Heads		0	4	1
2		Text - Traffic Counts		0	6	2
2		Text - Road Names and Other Data		0	2	2

RWTB

MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAICE Feature Code	Microstation Line Style or Cell	Color	Weight
DESCRIPTION						
57		Right of Way and Easement Tables		0	0	2

TYPs

MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAICE Feature Code	Microstation Line Style or Cell	Color	Weight
DESCRIPTION						
5		Pavement Design Legend		0	4	2
45		Dimensions, Cross Slopes and Slope Labels		0	0	1
45		Traffic Flow Arrows		0	2	1
46		Finished Grade Lines - Grassed		0	2	2
46		Finished Grade Lines - Concrete		0	6	1
46		Finished Grade Lines - Asphalt		0	0	2
47		Subgrade Lines		0	0	1
48		Miscellaneous Notes		0	4	2
49		Existing Ground Lines		2	2	3
50		Vehicles		0	5	1
50		Pedestrians		0	0	2
63		Miscellaneous notes for designer (not used in plans)				

WALL

MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAICE Feature Code	Microstation Line Style or Cell	Color	Weight
RETAINING WALL, PROPOSED						
20		Proposed retaining wall lines		0	7	2
21		Proposed retaining wall description & labels		0	7	2
22		Proposed footing lines		2	4	1
MEDIAN OR SIDE BARRIER, PROPOSED						
30		Proposed median or side barrier wall lines		0	7	2
31		Proposed median or side barrier description & labels		0	7	2
32		Proposed foundation lines		2	4	1
SOUND BARRIER WALL, PROPOSED						
40		Proposed sound barrier wall lines		0	7	2
41		Proposed sound barrier wall description		0	7	2
42		Proposed foundation lines		2	4	1
63		Miscellaneous notes for designer (not used in plans)		0	0	0

WPRO

MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAICE Feature Code	Microstation Line Style or Cell	Color	Weight
RETAINING WALL PROFILES						
20		Grid Stations & Elevations		0	7	2
21		Proposed incremental elevations		0	7	2
32		Proposed Retaining Wall envelope lines		0	0	2
33		Proposed Retaining Wall description & labels		0	0	2
34		Proposed Median or Side Barrier Wall envelope lines		0	0	2
35		Proposed Median or Side Barrier Wall description & labels		0	0	2
36		Proposed Sound Barrier Wall Envelope lines		0	0	2
37		Proposed Sound Barrier Wall description & labels		0	0	2
40		Existing Ground		2	2	1
41		Finished Ground (face of wall)		0	0	1
42		Finished Ground (back of wall)		6	0	1
63		Miscellaneous notes for designer (not used in plans)				

CNLY

MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAICE Feature Code	Microstation Line Style or Cell	Color	Weight
CONSTRUCTION CENTERLINE						
1		Construction centerline - lines	CONSTCL	0	6	4
2		Construction centerline - tic marks and sta labels	CONSTCL	0	6	4
3		Construction centerline - PC/PT station labels w/flags	CONSTCL	0	6	3
4		Construction centerline - bearings	CONSTCL	0	6	3
5		Construction centerline - curve label & data table	CONSTCL	0	6	3
SIDE OR CROSS ROAD CENTERLINE						
6		Side or Cross road centerline - lines	SIDECL	0	6	4
7		Side or Cross road centerline - tic marks and sta labels	SIDECL	0	6	4
8		Side or Cross road centerline - PC/PT station labels w/flags	SIDECL	0	6	3
9		Side or Cross road centerline - bearings	SIDECL	0	6	3
10		Side or Cross road centerline - curve label & data table	SIDECL	0	6	3
PROPOSED ROADWAY EDGE OF PAVING						
11		Proposed roadway edge of paving - lines		0	2	2
12		Proposed roadway edge of paving - description		0	2	2
PROPOSED EDGE OF SHOULDERS						
13		Proposed edge of paved shoulder - lines	EPSHLDR	0	4	2
14		Proposed edge of paved shoulder - description	SHLDR	0	5	2
APPROACH SLABS						
11		Approach slab - lines		0	4	2
12		Approach slab - description		0	5	2

CNLY

MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAICE Feature Code	Microstation Line Style or Cell	Color	Weight
BRIDGE PLANIMETRICS						
15		Proposed bridge - lines		0	0	4
16		Proposed bridge - description		0	4	2
DRIVEWAYS						
17		Driveway - lines		0	5	2
18		Driveway - description		0	4	2
CURB & GUTTER						
19		Proposed curb & gutter - lines - gutter line & back of curb		0	2	1
20		Proposed curb & gutter - description		0	4	2
SIDEWALK FACE AND BACK						
21		Sidewalk - lines		0	4	1
22		Sidewalk - description		0	5	1
GUARD RAIL, PROPOSED						
23		Proposed guard rail - lines and anchor		0	7	2
25		Proposed median or side barrier - lines		0	4	2
RETAINING WALL, PROPOSED						
27		Proposed retaining wall - lines		0	4	2
28		Proposed retaining wall - description		0	5	2
SOUND BARRIER WALL, PROPOSED						
29		Proposed sound barrier wall - lines		0	4	2
30		Proposed sound barrier wall - description		0	5	2

CNLY

MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAICE Feature Code	Microstation Line Style or Cell	Color	Weight
FENCE, PROPOSED						
31		Proposed fence - lines		0	3	2
32		Proposed fence - description		0	3	2
CONSTRUCTION FEATURE, MISC., PROPOSED						
33		Proposed misc. construction feature - lines		0	5	2
34		Proposed misc. construction feature - description		0	4	2
CROWN POINT						
35		Proposed crown point	CROWN	0	3	1
ROADWAY DETAILS						
36		Begin/end project & centerline intersection labels		0	4	2
37		Begin/end construction and limit of construction labels			4	2
38		Route # / road names and centerline label (CL Cell)		0	4	2
39		Roadway dimensions		0	4	2
40		Superelevation transition labels		0	4	2
41		Miscellaneous detail information			4	2
DESIGN GUIDES						
50		Lane lines (intersection and transition layout guides)		0	3	1
51		Shouder hinge point chain		0	3	1
63		Miscellaneous notes for designer (not used in plans)		0	0	0

ELECTRONIC DATA GUIDELINES

3-1 Supporting Files (Downloadable)

The following sections describes the files available for download off of the following web site for Microstation and CAiCE.

<http://www.dot.ga.gov/doingbusiness/PoliciesManuals/roads/Pages/default.aspx>

Cells

Cell Library Name	Cell Selector File Name	Number of Cells	Current Revision Date for File	(Typical) Plan Scales
GDOT-DR-1001B Concrete Headwalls.cel	N/A	201	11/26/08	1
GDOT-DR-1033D Catch Basins.cel	N/A	80	11/26/08	1
GDOT-DR-1033E Catch Basins.cel	N/A	84	11/26/08	1
GDOT-DR-1033F Catch Basins.cel	N/A	88	11/26/08	1
GDOT-DR-1033G Catch Basins.cel	N/A	80	11/26/08	1
GDOT-DR-1034D Catch Basins.cel	N/A	40	11/26/08	1
GDOT-DR-1034E Catch Basins.cel	N/A	44	11/26/08	1
GDOT-DR-1034F Catch Basins.cel	N/A	48	11/26/08	1
GDOT-DR-1034G Catch Basins.cel	N/A	40	11/26/08	1
GDOT-DR-1120 Flared End Sections.cel	N/A	42	11/26/08	1
GDOT-DR-1125 Inlet-Outlet Headwalls.cel	N/A	77	11/26/08	1
GDOT-DR-2321 Reinforced Concrete Box Culverts.cel	N/A	40	11/26/08	1
GDOT-DR-2322 Reinforced Concrete Box Culverts.cel	N/A	8	11/26/08	1
GDOT-DR-2323 Reinforced Concrete Box Culverts.cel	N/A	16	11/26/08	1

Cells

Cell Library Name	Cell Selector File Name	Number of Cells	Current Revision Date for File	(Typical) Plan Scales
GDOT-DR-2324 Reinforced Concrete Box Culverts.cel	N/A	16	11/26/08	1
GDOT-DR-2326 Reinforced Concrete Box Culverts.cel	N/A	8	11/26/08	1
GDOT-DR-2327 Reinforced Concrete Box Culverts.cel	N/A	8	11/26/08	1
GDOT-DR-9031-S Median Drop Inlets.cel	N/A	6	11/26/08	1
GDOT-DR-D3 Median Drop Inlets Special Design.cel	N/A	18	11/26/08	1
GDOT-DR-D39 Safety Slope End Sections.cel	N/A	21	11/26/08	1
GDOT-DR-D4 Ditch Drop Inlets.cel	N/A	201	11/26/08	1
GDOT-DR-D5 Safety Inlets With Grates.cel	N/A	21	11/26/08	1
GDOT-DR-D6 Safety Grates.cel	N/A	12	11/26/08	1
GDOT-DR-Labels and Notes.cel	N/A	21	11/26/08	1
GDOT-EL-Concept.cel	GDOT-EL-Concept.csf	29	11/26/08	N/A
GDOT-EL-Traffic.cel	GDOT-EL-Traffic.csf	39	11/26/08	N/A
GDOT-ER-Erosion-Notes.cel	N/A	7	11/26/08	1
GDOT-ER-Erosion.cel	GDOT-ER-Erosion20.csf /GDOT-ER-Erosion50.csf	107	11/26/08	20,50

Cells

Cell Library Name	Cell Selector File Name	Number of Cells	Current Revision Date for File	(Typical) Plan Scales
GDOT-GN-General-Notes.cel	N/A	13	11/26/08	1
GDOT-GN-Landscape.cel	GDOT-GN-Landscape20.csf /GDOT-GN-Landscape50.csf	23	11/26/08	20,50
GDOT-GN-Lighting.cel	GDOT-GN-Lighting20.csf /GDOT-GN-Lighting50.csf	14	11/26/08	20,50
GDOT-GN-Misc Roadway.cel	N/A	8	11/26/08	20,50
GDOT-GN-Quantities.cel	N/A	144	11/26/08	1
GDOT-GN-Reqd.cel	GDOT-GN-Reqd20.csf /GDOT-GN-Reqd50.csf	20	11/26/08	1
GDOT-GN-Seed.cel	N/A	0	11/26/08	N/A
GDOT-GN-Sheets.cel	GDOT-GN-Sheets.csf	44	11/26/08	20,50
GDOT-GN-Typical Sections.cel	N/A	205	11/26/08	1
GDOT-TO-Bicycle.cel	GDOT-TO-Bicycle20.csf /GDOT-TO-Bicycle50.csf	16	11/26/08	20,50
GDOT-TO-Consigs.cel	GDOT-TO-Consigs20.csf /GDOT-TO-Consigs50.csf	70	11/26/08	20,50
GDOT-TO-Dsigns.cel	GDOT-TO-Dsigns20.csf /GDOT-TO-Dsigns50.csf	25	11/26/08	20,50
GDOT-TO-Isigns.cel	GDOT-TO-Isigns20.csf /GDOT-TO-Isigns50.csf	10	11/26/08	20,50
GDOT-TO-ITS.cel	GDOT-TO-ITS20.csf /GDOT-TO-ITS50.csf	35	11/26/08	20,50

Cells

Cell Library Name	Cell Selector File Name	Number of Cells	Current Revision Date for File	(Typical) Plan Scales
GDOT-TO-Msigns.cel	GDOT-TO-Msigns20.csf /GDOT-TO-Msigns50.csf	107	11/26/08	20,50
GDOT-TO-Pavement.cel	GDOT-TO-Pavement20.csf /GDOT-TO-Pavement50.csf	26	11/26/08	20,50
GDOT-TO-Railroad.cel	GDOT-TO-Railroad20.csf /GDOT-TO-Railroad50.csf	8	11/26/08	20,50
GDOT-TO-Rec-Cult-Signs.cel	GDOT-TO-Rec-Cult-Signs20.csf /GDOT-TO-Rec-Cult-Signs50.csf	104	11/26/08	20,50
GDOT-TO-Rsigns.cel	GDOT-TO-Rsigns20.csf /GDOT-TO-Rsigns50.csf	159	11/26/08	20,50
GDOT-TO-Schoolsigns.cel	GDOT-TO-Schoolsigns20.csf /GDOT-TO-Schoolsigns50.csf	13	11/26/08	20,50
GDOT-TO-Signal.cel	GDOT-TO-Signal30.csf	199	11/26/08	30
GDOT-TO-Wsigns.cel	GDOT-TO-Wsigns20.csf /GDOT-TO-Wsigns50.csf	107	11/26/08	20,50
GDOT-UT-Utility.cel	GDOT-UT-Utility20.csf, GDOT-Exist-UT-Utility20.csf, GDOT-Exist-UT-Utility50.csf, GDOT-UT-Utility50.csf	159	11/26/08	20,50
Total Cell Libraries		Total Cells		
51.00		2911		