GEORGIA DEPARTMENT OF TRANSPORTATION

ELECTRONIC DATA GUIDELINES

Second Edition
March 15, 2004

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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, change 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
No. 2 Capitol Square S.W.
Atlanta, Georgia 30334
Attn: Automated Data / Design Standards Committee

Or email to:
ADDS@dot.state.ga.us

1-4 EDG REVISION SUMMARY

GDOT EDG, Second Edition Creation Date: March 15, 2004

Any subsequent revisions to this document shall be documented below.

Revisions		
Date	**Page(s)**	**Description**

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.

1-6 CURRENT DOT SOFTWARE VERSIONS

The current versions of major software used and accepted by the Georgia DOT are identified on the ADDS website:

http://www.dot.state.ga.us/dot/preconstruction/adds/index.shtml

More recent versions than those identified on this website will not be accepted.

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 ADDS website will not be supported by the Georgia DOT. The INI files, sheet commands, grid files, menus, workspaces, etc., provided by the DOT may not work for other versions.

Support for Microstation Software Versions

The only accepted CADD software used by the Georgia DOT is MicroStation. Only the MicroStation J file format is acceptable for transmitting CADD files to the department. The Microstation V8 file format will not be accepted by the department. While Microstation V8 offers many new features that will assist the department in the future, the department will not move to that format until it has been adequately tested and methodology and procedures put in place to transition existing projects to the V8 file format.

Translation tables, conversion tables, or special software programs have not been created or standardized for exchanging information between common file formats such as DXF, DWG, ICES, IGES, or software such as Autocad, ARCVIEW, ARCINFO, etc.

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 ADDS 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.

Using Backup, Disks, and Compression

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

1) **CD's**
2) **FTP**

Winzip

If data compression is necessary, WINZIP will be the standard format used. The WINZIP executable shall be included with the transmitted files. If a file or a group of files is too large to be copied on a single diskette, then a zip disk or CD is recommended.

1-8 GRAPHIC STANDARDS

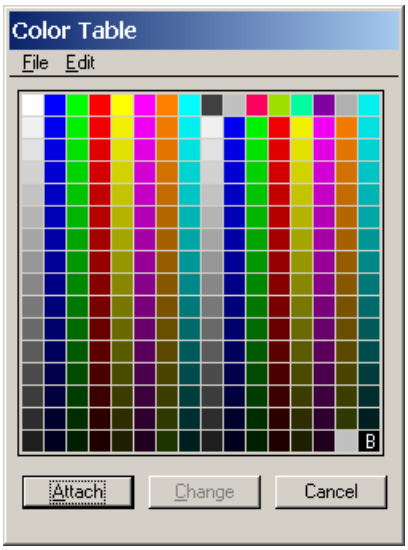
MicroStation

Color Tables:

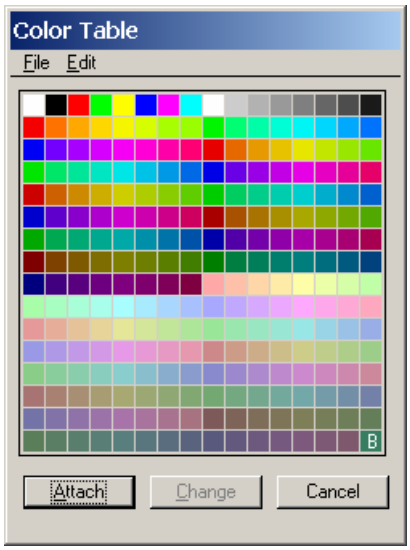
The Department has two acceptable Microstation color table formats:

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

GDOTcolor.TBL



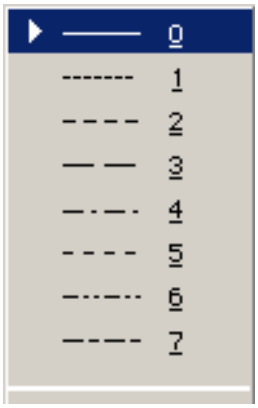
GDOTDcolor.tbl



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



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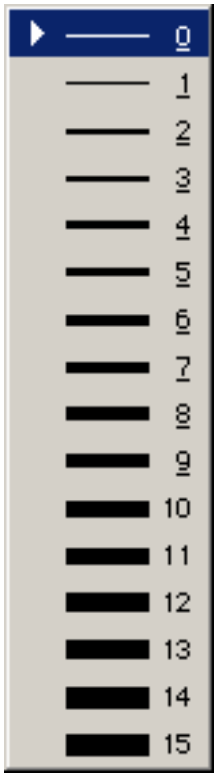
MicroStation

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.

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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 **Automated Data / Design Standards Committee.**
Email to:
ADDS@dot.state.ga.us

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:

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

The GDOT2D.dgn seed file has been set with a Global Originas 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 English Right of Way plans and plans in general 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 7.5ft (0.15 x 50 = 7.5) or for 1 inch equals twenty feet (1”=20’) which would equal a text size of 3.0ft (0.15 x20 =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 feet,

((1 m / 39.37 ") x (12 " / ft)) = 0.3048006096012 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 feet,

((25.4 mm / 1 ") x (12 " / ft) x (m / 1000 mm)) = 0.3048000000000 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.

Note: The Super Saved View macro does not maintain the Active Level, therefore set the active level to level 62 prior to generating the Super Saved View.

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 should 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 and 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 Georgia DOT Microstation 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 file.

All MicroStation files should be located in a sub-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 sub-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)** 6 Digit PI Number followed by **TYPE** and **Sheet Number**	**Description**
(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 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
(16)Crossroad Profile	123456**XP01**.DGN	Crossroad, Side Street, and Frontage Road Profile Sheets

Construction Plan Assembly

Construction Plan Assembly Section Number and Type	**Design File Name(s)** 6 Digit PI Number followed by **TYPE** and **Sheet Number**	**Description**
(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
(22)Drainage Cross-Sections	123456**DX01**.DGN	Drainage Cross-Sections
(23)Earthwork Cross Sections	123456**XS01**.DGN	Earthwork 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
(29)Landscaping Plans	123456**LS01**.DGN	Landscaping Plans and Details

Construction Plan Assembly

Construction Plan Assembly Section Number and Type	**Design File Name(s)** 6 Digit PI Number followed by **TYPE** and **Sheet Number**	**Description**
(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)Culvert Plans	123456**CU01**.DGN	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
* 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)** 6 Digit PI Number followed by **TYPE** and **Sheet Number**	**Description**
Erosion Control Plans		
(50)Erosion Control Cover Sheet	123456**EC01**.DGN	Erosion Control Cover Sheet
(51)BMP General Notes	123456**EGN1**.DGN	BMP General Notes
(52)Erosion Control Drainage Area Map	123456**EDM1**.DGN	Erosion Control Drainage Area Map
(53)BMP Location Details	123456**ER01**.DGN	BMP Location Details
(54)CMP General Notes	123456**ECM1**.DGN	CMP General Notes
(55)Watershed Map / CMP Plan	123456**EWM1**.DGN	Watershed Map / CMP Plan
(56)Erosion Control Construction Details	123456**ECD1**.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 Level Corresponds to Section (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…)						
42-44		**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
123456**CV**01.DGN	NA	NA	1,43-56,60-62
	123456**MAIN**.DGN	MAIN	1,6,11,15
	123456**DRNG**.DGN	DRNG	15
	123456**REQD**.DGN	REQD	(See PPG Notes)
	123456**PROP**.DGN	PROP	34
	123456**TOPO**.DGN	TOPO	1,11,13,21,23,
	123456**ENVE**.DGN	ENVE	1,3,6,9,11,13,15,17,20,22,25,27,30,32,40,42

(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:			
revison_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
	123456**TYPS**.DGN	TYPS	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
123456**QN**01.DGN	NA	NA	6,45-49,60-62

(7)Quantities Amendment

Design File Name(s)	Reference File Name	Logical Name	Levels On
123456**QA**01.DGN	NA	NA	7,45-49,60-62

(8)Quantities (Construction)

Design File Name(s)	Reference File Name	Logical Name	Levels On
123456**QC**01.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
123456**TR**01.DGN	NA	NA	10,45-49,60-62 **(See Plan Sheet Levels Section for Level Usage)**
	123456**TRDG**.DGN	TRDG	1,2

(11)Construction Layout

Design File Name(s)	Reference File Name	Logical Name	Levels On
123456**CL**01.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	2-5,7-10,36-38

(12)Misc. Maps

Design File Name(s)	Reference File Name	Logical Name	Levels On
123456**MM**01.DGN	NA	NA	12,45-49,60-62
(See Plan Presentation Guide for Usage)			

(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	1-49
	123456**REQD**.DGN	REQD	1,2,4-23
	123456**SIGN**.DGN	SIGN	54
	123456**SGNL**.DGN	SNGL	54
	123456**UTLE**.DGN	UTLE	1,4,7,10,13,16,19,22,25,28,31,34,37,40,43,46,49
	123456**LIMT**.DGN	LIMT	1-4
	123456**PROP**.DGN	PROP	6-8,10,13,14,16,17,19,20,26,27,34,35
	123456**TOPO**.DGN	TOPO	1,3,5,7,9,11,13,15,17,19,21,23-27,29,31,33,35,37,39,43,57,58

(14)Crossroad Plan

Design File Name(s)	Reference File Name	Logical Name	Levels On
123456**XR**01.DGN	NA	NA	14,45-49,60-62 **(See Plan Sheet Levels Section for Level Usage)**
	123456**MAIN**.DGN	MAIN	1-49
	123456**DRNG**.DGN	DRNG	1-49
	123456**REQD**.DGN	REQD	1,2,4-23
	123456**SIGN**.DGN	SIGN	54
	123456**SGNL**.DGN	SNGL	54
	123456**UTLE**.DGN	UTLE	1,4,7,10,13,16,19,22,25,28,31,34,37,40,43,46,49
	123456**LIMT**.DGN	LIMT	1-4
	123456**PROP**.DGN	PROP	6-8,10,13,14,16,17,19,20,26,27,34,35
	123456**TOPO**.DGN	TOPO	1,3,5,7,9,11,13,15,17,19,21,23-27,29,31,33,35,37,39,43,57,58

(15)Mainline Profile

Design File Name(s)	Reference File Name	Logical Name	Levels On
123456**PR01**.DGN	NA	NA	15,45-49,60-62
(Future Development)			
(See Plan Presentation Guide for Usage)			

(16)Crossroad Profile

Design File Name(s)	Reference File Name	Logical Name	Levels On
123456**XP**01.DGN	NA	NA	16,45-49,60-62
(Future Development)			
(See Plan Presentation Guide for Usage)			

(17)Driveway Profiles

Design File Name(s)	Reference File Name	Logical Name	Levels On
123456**DR**01.DGN	NA	NA	17,45-49,60-62
(Future Development)			
(See Plan Presentation Guide for Usage)			

(18)Special Grading

Design File Name(s)	Reference File Name	Logical Name	Levels On
123456**GR**01.DGN	NA	NA	18,45-49,60-62
(Future Development)			
(See Plan Presentation Guide for Usage)			

(19)Staging Plan

Design File Name(s)	Reference File Name	Logical Name	Levels On
123456**ST**01.DGN	NA	NA	19,45-49,60-62 **(See Plan Sheet Levels Section for Level Usage)**
	123456**MAIN**.DGN	MAIN	1-11,13,15,17,19,21,23,25,27,36-38
	123456**DRNG**.DGN	DRNG	11,12,14,16,19,22-24,26,28
	123456**REQD**.DGN	REQD	6,8,10,12,15,17,20,22
	123456**SIGN**.DGN	SIGN	54
	123456**SGNL**.DGN	SNGL	54
	123456**UTLE**.DGN	UTLE	1,4,7,10,13,16,19,22,25,28,31,34,37,40,43,46,49
	123456**LIMT**.DGN	LIMT	1-4
	*123456**STE#**.DGN	STE#	1-15,43-45
	123456**PROP**.DGN	PROP	6,7,13,14,16,17,19,20,34,35
	123456**TOPO**.DGN	TOPO	1-7,9,11,13,17,23,25,27,33,35
*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
123456**SP**01.DGN	NA	NA	19,45-49,60-62
(Future Development)			
(See Plan Presentation Guide for Usage)			

(19)Staging Cross Sections

Design File Name(s)	Reference File Name	Logical Name	Levels On
123456**SX**01.DGN	NA	NA	19,45-49,60-62
(Future Development)			
(See Plan Presentation Guide for Usage)			

(20)Staging Details

Design File Name(s)	Reference File Name	Logical Name	Levels On
123456**SD**01.DGN	NA	NA	20,45-49,60-62
(Future Development)			
(See Plan Presentation Guide for Usage)			

(21)Drainage Area Map

Design File Name(s)	Reference File Name	Logical Name	Levels On
123456**DM**01.DGN	NA	NA	21,45-49,60-62 **(See Plan Sheet Levels Section for Level Usage)**
	123456**MAIN**.DGN	MAIN	1,6,11,15,27
	123456**DRNG**.DGN	DRNG	1,16,19

(22)Drainage Profiles

Design File Name(s)	Reference File Name	Logical Name	Levels On
123456**DP**01.DGN	NA	NA	22,45-49,60-62
(Future Development)			
(See Plan Presentation Guide for Usage)			

(23)Drainage Xsections

Design File Name(s)	Reference File Name	Logical Name	Levels On
123456**DX**01.DGN	NA	NA	22,45-49,60-62
(Future Development)			
(See Plan Presentation Guide for Usage)			

(23)Earthwork Cross Sections

Design File Name(s)	Reference File Name	Logical Name	Levels On
123456**XS**01.DGN	NA	NA	23,45-49,60-62
(Future Development)			
(See Plan Presentation Guide for Usage)			

(24)Utility Plans

Design File Name(s)	Reference File Name	Logical Name	Levels On
123456**UT**01.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	12,14,15,17,25,27,29
	123456**REQD**.DGN	REQD	1-4,6,9,10,11
	123456**SIGN**.DGN	SIGN	45,54,59
	123456**SGNL**.DGN	SGNL	54,55
	123456**UTLE**.DGN	UTLE	1-63
	123456**UTLP**.DGN	UTLP	1-63
	123456**LIMT**.DGN	LIMT	1,2,3,4
	123456**PROP**.DGN	PROP	6,11,13,16,17,19,20,26,34,35
	123456**TOPO**.DGN	TOPO	1,3,5,7,9,11,13,15-17,19,20,21,23-27,29,31-39,57-60
	123456**LGHT**.dgn	LGHT	1,5,9,13,15,17,19,21,23,29,30

(25)Lighting Plans

Design File Name(s)	Reference File Name	Logical Name	Levels On
123456**LT**01.DGN	NA	NA	25,45-49,60-62 **(See Plan Sheet Levels Section for Level Usage)**
	123456**MAIN**.DGN	MAIN	1-11,13,15,17,19,21,23,25,27,29,31,33,35-41
	123456**DRNG**.DGN	DRNG	12,14,17,21,23,25,27
	123456**REQD**.DGN	REQD	4,6,9,10,11
	123456**SIGN**.DGN	SIGN	54
	123456**SGNL**.DGN	SNGL	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**LIMT**.DGN	LIMT	1-4
	123456**PROP**.DGN	PROP	6,13,16,19,26,
	123456**TOPO**.DGN	TOPO	1-43, 57-62
	123456**LGHT**.DGN	LGHT	1-33

(26)Signing and Marking Plans

Design File Name(s)	Reference File Name	Logical Name	Levels On
123456**SM**01.DGN	NA	NA	26,45-49,60-62 **(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
	123456**DRNG**.DGN	DRNG	12,19,41,43
	123456**REQD**.DGN	REQD	8,14
	123456**SIGN**.DGN	SIGN	1,6,36,38,45-48,57-60
	123456**PROP**.DGN	PROP	13
	123456**TOPO**.DGN	TOPO	13,15

(27)Signal Plans

Design File Name(s)	Reference File Name	Logical Name	Levels On
123456**SG**01.DGN	NA	NA	27,45-49,60-62 **(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
	123456**DRNG**.DGN	DRNG	12,19,41,43
	123456**REQD**.DGN	REQD	8,14
	123456**SIGN**.DGN	SIGN	47,58
	123456**SGNL**.DGN	SNGL	1-63
	123456**UTLP**.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
	123456**PROP**.DGN	PROP	13

(28)ATMS Plans

Design File Name(s)	Reference File Name	Logical Name	Levels On
123456**AT**01.DGN	NA	NA	28,45-49,60-62 **(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
	123456**DRNG**.DGN	DRNG	12,19,41,43
	123456**REQD**.DGN	REQD	8,14
	123456**SIGN**.DGN	SIGN	45-48,58-59
	123456**SGNL**.DGN	SNGL	1-63
	123456**UTLP**.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
	123456**PROP**.DGN	PROP	13

(29)Landscaping Plans

Design File Name(s)	Reference File Name	Logical Name	Levels On
123456**LS**01.DGN	NA	NA	29,45-49,60-62 **(See Plan Sheet Levels Section for Level Usage)**
	123456**MAIN**.DGN	MAIN	1,6,11,13,15,17,19,21,23,25,27,29,31,33
	123456**DRNG**.DGN	DRNG	12,23,27,41,43,50,52-53
	123456**REQD**.DGN	REQD	8,26
	123456**PROP**.DGN	PROP	6
	123456**TOPO**.DGN	TOPO	1,3,5,7,9,11,13,15,23,25,27,29,31,33,35,39

(30)Mitigation Plans

Design File Name(s)	Reference File Name	Logical Name	Levels On
123456**WM**01.DGN	NA	NA	30,45-49,60-62
(Future Development)			
(See Plan Presentation Guide for Usage)			

(31)Retaining Wall Envelope

Design File Name(s)	Reference File Name	Logical Name	Levels On
123456**WE**01.DGN	NA	NA	31,45-49,60-62 **(See Plan Sheet Levels Section for Level Usage)**
	123456**WPRO**.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**WL**01.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	2,6,8,12,13,17,18
	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**LIMT**.DGN	LIMT	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
123456**SE**01.DGN	NA	NA	33,45-49,60-62 **(See Plan Sheet Levels Section for Level Usage)**
	123456**WPRO**.DGN	WPRO	20,21,36,37,40-42
*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
123456**SB**01.DGN	NA	NA	34,45-49,60-62 **(See Plan Sheet Levels Section for Level Usage)**
	123456**WALL**.DGN	WALL	40-42
	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	2,6,8,12,13,17,18
	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**LIMT**.DGN	LIMT	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

(35)Bridge Plans

Design File Name(s)	Reference File Name	Logical Name	Levels On
123456**BR**01.DGN	NA	NA	35,45-49,60-62
(Future Development)			
(See Plan Presentation Guide for Usage)			
(Contact Bridge Office for Latest Procedures)			

(36)Culvert Plans

Design File Name(s)	Reference File Name	Logical Name	Levels On
123456**CU**01.DGN	NA	NA	36,45-49,60-62
(Future Development)			
(See Plan Presentation Guide for Usage)			
(Contact Bridge Office for Latest Procedures)			

(37)Miscellaneous Structures

Design File Name(s)	Reference File Name	Logical Name	Levels On
123456**MS**01.DGN	NA	NA	37,45-49,60-62
(Future Development)			
(See Plan Presentation Guide for Usage)			
(Contact Bridge Office for Latest Procedures)			

(38)Special Construction Detail

Design File Name(s)	Reference File Name	Logical Name	Levels On
123456**DS**01.DGN	NA	NA	38,45-49,60-62
(Future Development)			
(See Plan Presentation Guide for Usage)			

(39)Special Culverts

Design File Name(s)	Reference File Name	Logical Name	Levels On
123456**SC**01.DGN	NA	NA	39,45-49,60-62
(Future Development)			
(See Plan Presentation Guide for Usage)			
(Contact Bridge Office for Latest Procedures)			

(40)Construction Details

Design File Name(s)	Reference File Name	Logical Name	Levels On
123456**CD**01.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

(50)Erosion Cover

Design File Name(s)	Reference File Name	Logical Name	Levels On
123456**EC01**.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	34
	123456**TOPO**.DGN	TOPO	1,11,13,21,23
	123456**ENVE**.DGN	ENVE	1,3,6,9,11,13,15,17,20,22,25,27,30,32,40,42
(See Plan Presentation Guide for Usage)			

(51)BMP General Notes

Design File Name(s)	Reference File Name	Logical Name	Levels On
123456**EGN**01.DGN	NA	NA	51,45-49,60-62
See GDOT-ER-Erosion-Notes.cel library for BMP cells.			
BMP Notes should be placed on Level 51.			
(See Plan Presentation Guide for Usage)			

(52)ERC Drainage Area Map

Design File Name(s)	Reference File Name	Logical Name	Levels On
123456**EDM1**.DGN	NA	NA	52,45-49,60-62 **(See Plan Sheet Levels Section for Level Usage)**
	123456**MAIN**.DGN	MAIN	1,6,11,15,27
	123456**DRNG**.DGN	DRNG	1,16,19
(See Plan Presentation Guide for Usage)			

(53)BMP Location Details

Design File Name(s)	Reference File Name	Logical Name	Levels On
123456**ER**01.DGN	NA	NA	53,45-49,60-62 **(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**LIMT**.DGN	LIMT	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	1-7,11,13,17,23,25,26,27,33,35
(See Plan Presentation Guide for Usage)			

(54)CMP General Notes

Design File Name(s)	Reference File Name	Logical Name	Levels On
123456**ECM**1.DGN	NA	NA	54,45-49,60-62
See GDOT-ER-Erosion-Notes.cel library for CMP cells.			
CMP Notes should be placed on Level 54.			
(See Plan Presentation Guide for Usage)			

(55)Watershed Map CMP Plan

Design File Name(s)	Reference File Name	Logical Name	Levels On
123456**EWM1**.DGN	NA	NA	55,45-49,60-62 **(See Plan Sheet Levels Section for Level Usage)**
(See Plan Presentation Guide for Usage)			

(56)Erosion Construction Detail

Design File Name(s)	Reference File Name	Logical Name	Levels On
123456**ECD1**.DGN	NA	NA	56,45-49,60-62 **(See Plan Sheet Levels Section for Level Usage)**
(See Plan Presentation Guide for Usage)			

Right-of-Way

Design File Name(s)	Reference File Name	Logical Name	Levels On	
123456**RW**01.DGN	NA	NA	57,45-49,60-62 **(See Plan Sheet Levels Section for Level Usage)**	
	123456**MAIN**.DGN	MAIN	1-12,15-34,36-39,41	
	123456**DRNG**.DGN	DRNG	11,12,14,16,19,22,24,26-28	
	123456**REQD**.DGN	REQD	1-23,34	
	123456**SGNL**.DGN	SNGL	54,55	
	123456**UTLP**.DGN	UTLP	*	
	123456**LIMT**.DGN	LIMT	1,2,3,4	
	123456**STE#**.DGN	STE#	*	
	123456**PROP**.DGN	PROP	6-20,25-27,33-35	
	123456**TOPO**.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	
	123456**LGHT**.DGN	LGHT	*	
	123456**LNSC**.DGN	LNSC	*	
	123456**ENVP**.DGN	ENVP	*	
	123456**WALL**.DGN	WALL	20-22,30-32,40-42	
	123456**ATMS**.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		**For Files in folder**
	followed by **TYPE**		**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**LIMT**.DGN	**LIMT**	123456LIMT.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 stattion 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**
BRIDGE PLANIMETRICS						
15		Proposed bridge - **lines**			**0**	**4**

MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAiCE Feature Code	Microstation Line Style or Cell	Color	Weight
16		Proposed bridge - **description**			**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**
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**
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**

MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAiCE Feature Code	Microstation Line Style or Cell	Color	Weight
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			4	2
42		**Available**				
43		**Available**				
44		**Available**				
45		**Available**				
46		**Available**				
47		**Available**				
48		**Available**				

MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAiCE Feature Code	Microstation Line Style or Cell	Color	Weight
49		**Available**				
DESIGN GUIDES						
50		Lane lines (intersection and transition layout guides)		**0**	**3**	**1**
51		Shouder 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)				

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**	**1**
2		Drainage Area Boundary (Major) - Description				
4		Drainage Area Boundary (Sub-system) - Line	**SBASIN**		**2**	**1**
5		Drainage Area Boundary (Sub-system) - Description				
Proposed Storm Drain Systems						
(Side Drain, Median Drain, Yard Drain, Slope Drain, etc...)						
10		Storm Drain Structures number label			**1**	**2**
11		Storm Drain Structures (catch basin, junction boxes,drop inlets, flared end sections etc…)			**1**	**2**
12		Storm Drain Pipes (Line)			**1**	**2**
13		Storm Drain Pipe flow arrows and descriptions			**1**	**2**
Proposed Ditches and Channels						
14		Ditch and Channel lines with flow arrows			**4**	**2**
15		Ditch and Channel text			**4**	**2**
Proposed Cross Drain and Culverts (Items shown on drainage area map)						
16		Cross Drain and Culvert Lines			**1**	**2**
17		Cross Drain and Culvert flow arrows and descriptions			**1**	**2**

DRNG

MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAiCE Feature Code	Microstation Line Style or Cell	Color	Weight
Proposed Bridge Culverts						
19		Bridge Culvert Lines			**1**	**2**
20		Bridge Culvert flow arrows and descriptions			**1**	**2**
Proposed Sediment basin						
22		Sediment Basin Lines			**4**	**2**
23		Sediment Basin Description			**4**	**2**
Proposed Detention Pond						
24		Detention Pond Lines			**4**	**2**
25		Detention Pond Description			**4**	**2**
Proposed Ditch Protection						
26		Permananent Rip Rap (pattern)			**0**	**2**
27		Permananent Ditch Protection Description			**0**	**2**
28		Ditch Protection - Concrete Paving			**4**	**2**
49		Miscellaneous text			**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)**				
51		CAiCE Ditch Node Numbers **(not plotted)**				
52		Drainage Area Boundary (Major) - Pattern				
53		Drainage Area Boundary (Major) - Points **(not plotted)**				
54		Drainage Area Boundary (Sub-system) - Pnts **(not plotted)**				
55		Sediment Basins Point Symbol			**4**	**2**
56		Sediment Basins Point # text			**4**	**2**
57		Detention Pond Point Symbol			**4**	**2**
58		Detention Pond Point # text			**4**	**2**
63		Miscellaneous Designer notes **(not plotted)**				

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			**3**	**2**
2		Property/parcel owner number			**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**		**3**	**4**
5		Required R/W point # text and leader line	**REQD**	**0**	**3**	**2**
6		Required R/W lines	**REQD**		**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**

MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAiCE Feature Code	Microstation Line Style or Cell	Color	Weight
TEMPORARY EASEMENT						
14		Temporary easement point # text and leader line	**TESMT**	**0**	**2**	**2**
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				
ITEMS NOT PLOTTED						
51		Shapes for patterning				
63		Miscellaneous Designer notes **(not plotted)**				

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		Existing Signs and symbols				
46		Existing Sign Notes				
47		Existing Pavement Markings				
48		Existing Pavement Markings Notes				
Proposed Overhead Signs						
54		Proposed Sign Structure and proposed strain poles				
59		Proposed Span Wire				
60		Proposed Sign Notes, Leader Lines, Codes				
Proposed Signs and Markings						
57		Proposed Marking Notes				
58		Proposed Markings				
59		Proposed Signs and symbols				
60		Proposed Sign Notes, Leader Lines, Codes				
Additional Levels needed for Signing sheet Development						
1		Existing Road				
6		Existing R/W				
36		Begin / End Project				
38		Road Name Route #				

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		Existing Signal (Poles, Span Wire, Heads, Loops Notes)				
50		Existing Controller				
51		Existing Conduit and Pullboxes				
52		Existing Signal Notes				
Proposed Signals						
53		Proposed Signal Notes, Leader Lines, Loops Notes				
54		Proposed Signal Poles				
55		Proposed Conduit, Pullboxes, ECB's				
56		Proposed Span Wire, Signal Heads, Ped. Heads, Controller				
Additional Levels needed for Signing sheet Deveolpment						
1		Existing Road				
6		Existing R/W				
7		Sidewalk (Existing)				
36		Begin / End Project				
38		Road Name Route #				

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				
13		ITS DEVICES AND CONDUIT (CAMERA SYMBOLS, PULLBOXES, ECBS…)				
14		UTILITY POLES (SERVICE POINTS) SYMBOL				
15		UTILITY NOTES FOR SERVICE POINTS				

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 (Underground) cell			**3**	**3**
2		Electrical (Underground) [Text-label,size,type]			**3**	**3**
3		Electrical (Underground) line		**EXUGE**	**3**	**3**
3		Electrical (Underground) line **[Quality Level B]**		**EXUGE-B**	**3**	**3**
3		Electrical (Underground) line **[Quality Level C]**		**EXUGE-C**	**3**	**3**
4		Gas (Underground) cell			**4**	**3**
5		Gas (Underground) [Text-label,size,type]			**4**	**3**
6		Gas (Underground) line		**EXUGG**	**4**	**3**
6		Gas (Underground) line **[Quality Level B]**		**EXUGG-B**	**4**	**3**
6		Gas (Underground) line **[Quality Level C]**		**EXUGG-C**	**4**	**3**
6		24" Underground Gas line		**EXUGG-24**	**4**	**3**
6		24" Underground Gas line **[Quality Level B]**		**EXUGG-24B**	**4**	**3**
6		24" Underground Gas line **[Quality Level C]**		**EXUGG-24C**	**4**	**3**
6		30" Underground Gas line		**EXUGG-30**	**4**	**3**
6		30" Underground Gas line **[Quality Level B]**		**EXUGG-30B**	**4**	**3**
6		30" Underground Gas line **[Quality Level C]**		**EXUGG-30C**	**4**	**3**
6		36" Underground Gas line		**EXUGG-36**	**4**	**3**
6		36" Underground Gas line **[Quality Level B]**		**EXUGG-36B**	**4**	**3**
6		36" Underground Gas line **[Quality Level C]**		**EXUGG-36C**	**4**	**3**
6		42" Underground Gas line		**EXUGG-42**	**4**	**3**
6		42" Underground Gas line **[Quality Level B]**		**EXUGG-42B**	**4**	**3**
6		42" Underground Gas line **[Quality Level C]**		**EXUGG-42C**	**4**	**3**
6		48" Underground Gas line		**EXUGG-48**	**4**	**3**
6		48" Underground Gas line **[Quality Level B]**		**EXUGG-48B**	**4**	**3**
6		48" Underground Gas line **[Quality Level C]**		**EXUGG-48C**	**4**	**3**

UTLE

MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAiCE Feature Code	Microstation Line Style or Cell	Color	Weight
7		Traffic Control (Underground) cell			**0**	**3**
8		Traffic Control (Underground) [Text-label,size,type]			**0**	**3**
9		Traffic Control (Underground) line		**EXUGTC**	**0**	**3**
9		Traffic Control (Underground) line [**Quality Level B]**		**EXUGTC-B**	**0**	**3**
9		Traffic Control (Underground) line **[Quality Level C]**		**EXUGTC-C**	**0**	**3**
10		Sanitary Sewer (Underground) cell			**2**	**3**
11		Sanitary Sewer (Underground) [Text-label,size,type]			**2**	**3**
12		Sanitary Sewer (Underground) line		**EXUGSS**	**2**	**3**
12		Sanitary Sewer (Underground) line [**Quality Level B]**		**EXUGSS-B**	**2**	**3**
12		Sanitary Sewer (Underground) line **[Quality Level C]**		**EXUGSS-C**	**2**	**3**
12		24" Underground Sanitary Sewer line		**EXUGSS-24**	**2**	**3**
12		24" Underground Sanitary Sewer line **[Quality Level B]**		**EXUGSS-24B**	**2**	**3**
12		24" Underground Sanitary Sewer line [**Quality Level C]**		**EXUGSS-24C**	**2**	**3**
12		30" Underground Sanitary Sewer line		**EXUGSS-30**	**2**	**3**
12		30" Underground Sanitary Sewer line **[Quality Level B]**		**EXUGSS-30B**	**2**	**3**
12		30" Underground Sanitary Sewer line **[Quality Level C]**		**EXUGSS-30C**	**2**	**3**
12		36" Underground Sanitary Sewer line		**EXUGSS-36**	**2**	**3**
12		36" Underground Sanitary Sewer line **[Quality Level B]**		**EXUGSS-36B**	**2**	**3**
12		36" Underground Sanitary Sewer line **[Quality Level C]**		**EXUGSS-36C**	**2**	**3**
12		42" Underground Sanitary Sewer line		**EXUGSS-42**	**2**	**3**
12		42" Underground Sanitary Sewer line **[Quality Level B]**		**EXUGSS-42B**	**2**	**3**
12		42" Underground Sanitary Sewer line **[Quality Level C]**		**EXUGSS-42C**	**2**	**3**
12		48" Underground Sanitary Sewer line		**EXUGSS-48**	**2**	**3**
12		48" Underground Sanitary Sewer line **[Quality Level B]**		**EXUGSS-48B**	**2**	**3**
12		48" Underground Sanitary Sewer line **[Quality Level C]**		**EXUGSS-48C**	**2**	**3**
10		Sanitary Force Main (Underground) cell			**2**	**3**
11		Sanitary Force Main (Underground) [Text-label,size,type]			**2**	**3**

UTLE

MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAiCE Feature Code	Microstation Line Style or Cell	Color	Weight
12		Sanitary Force Main (Underground) line		EXUGSFM	2	3
12		Sanitary Force Main (Underground) line **[Quality Level B]**		EXUGSFM-B	2	3
12		Sanitary Force Main (Underground) line **[Quality Level C]**		EXUGSFM-C	2	3
13		Water (Underground) cell			1	3
14		Water (Underground) [Text-label,size,type]			1	3
15		Water (Underground) line		EXUGW	1	3
15		Water (Underground) line **[Quality Level B]**		EXUGW-B	1	3
15		Water (Underground) line **[Quality Level C]**		EXUGW-C	1	3
15		24" Underground Water line		EXUGW-24	1	3
15		24" Underground Water line **[Quality Level B]**		EXUGW-24B	1	3
15		24" Underground Water line **[Quality Level C]**		EXUGW-24C	1	3
15		30" Underground Water line		EXUGW-30	1	3
15		30" Underground Water line **[Quality Level B]**		EXUGW-30B	1	3
15		30" Underground Water line **[Quality Level C]**		EXUGW-30C	1	3
15		36" Underground Water line		EXUGW-36	1	3
15		36" Underground Water line **[Quality Level B]**		EXUGW-36B	1	3
15		36" Underground Water line **[Quality Level C]**		EXUGW-36C	1	3
15		42" Underground Water line		EXUGW-42	1	3
15		42" Underground Water line **[Quality Level B]**		EXUGW-42B	1	3
15		42" Underground Water line **[Quality Level C]**		EXUGW-42C	1	3
15		48" Underground Water line		EXUGW-48	1	3
15		48" Underground Water line **[Quality Level B]**		EXUGW-48B	1	3
15		48" Underground Water line **[Quality Level C]**		EXUGW-48C	1	3
16		Television (Underground) cell			6	3
17		Television (Underground) [Text-label,size,type]			6	3
18		Television (Underground) line		EXUGTV	6	3
18		Television (Underground) line **[Quality Level B]**		EXUGTV-B	6	3

UTLE

MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAiCE Feature Code	Microstation Line Style or Cell	Color	Weight
18		Television (Underground) line **[Quality Level C]**		EXUGTV-C	6	3
19		Petroleum (Underground) cell			4	3
20		Petroleum (Underground) [Text-label,size,type]			4	3
21		Petroleum (Underground) line		EXUGP	4	3
21		Petroleum (Underground) line **[Quality Level B]**		EXUGP-B	4	3
21		Petroleum (Underground) line **[Quality Level C]**		EXUGP-C	4	3
21		24" Underground Pertoleum line		EXUGP-24	4	3
21		24" Underground Pertoleum line **[Quality Level B]**		EXUGP-24B	4	3
21		24" Underground Pertoleum line **[Quality Level C]**		EXUGP-24C	4	3
21		30" Underground Petroleum line		EXUGP-30	4	3
21		30" Underground Petroleum line **[Quality Level B]**		EXUGP-30B	4	3
21		30" Underground Petroleum line **[Quality Level C]**		EXUGP-30C	4	3
21		36" Underground Petroleum line		EXUGP-36	4	3
21		36" Underground Petroleum line **[Quality Level B]**		EXUGP-36B	4	3
21		36" Underground Petroleum line **[Quality Level C]**		EXUGP-36C	4	3
21		42" Underground Petroleum line		EXUGP-42	4	3
21		42" Underground Petroleum line **[Quality Level B]**		EXUGP-42B	4	3
21		42" Underground Petroleum line **[Quality Level C]**		EXUGP-42C	4	3
21		48" Underground Petroleum line		EXUGP-48	4	3
21		48" Underground Petroleum line **[Quality Level B]**		EXUGP-48B	4	3
21		48" Underground Petroleum line **[Quality Level C]**		EXUGP-48C	4	3
22		Telephone (Underground) cell			6	3
23		Telephone (Underground) [Text-label,size,type]			6	3
24		Telephone (Underground) line		EXUGT	6	3
24		Telephone (Underground) line **[Quality Level B]**		EXUGT-B	6	3
24		Telephone (Underground) line **[Quality Level C]**		EXUGT-C	6	3
25		Non-potable water (Underground) cell			1	3

UTLE

MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAiCE Feature Code	Microstation Line Style or Cell	Color	Weight
26		Non-potable water (Underground) [Text-label,size,type]			**1**	**3**
27		Non-potable water (Underground) line		**EXUGNW**	**1**	**3**
27		Non-potable water (Underground) line **[Quality Level B]**		**EXUGNW-B**	**1**	**3**
27		Non-potable water (Underground) line **[Quality Level C]**		**EXUGNW-C**	**1**	**3**
27		24" Underground Non-potable water line		**EXUGNW-24**	**1**	**3**
27		24" Underground Non-potable water line **[Quality Level B]**		**EXUGNW-24B**	**1**	**3**
27		24" Underground Non-potable water line **[Quality Level C]**		**EXUGNW-24C**	**1**	**3**
27		30" Underground Non-potable water line		**EXUGNW-30**	**1**	**3**
27		30" Underground Non-potable water line **[Quality Level B]**		**EXUGNW-30B**	**1**	**3**
27		30" Underground Non-potable water line **[Quality Level C]**		**EXUGNW-30C**	**1**	**3**
27		36" Underground Non-potable water line		**EXUGNW-36**	**1**	**3**
27		36" Underground Non-potable water line **[Quality Level B]**		**EXUGNW-36B**	**1**	**3**
27		36" Underground Non-potable water line **[Quality Level C]**		**EXUGNW-36C**	**1**	**3**
27		42" Underground non-potable water line		**EXUGNW-42**	**1**	**3**
27		42" Underground non-potable water line **[Quality Level B]**		**EXUGNW-42B**	**1**	**3**
27		42" Underground non-potable water line **[Quality Level C]**		**EXUGNW-42C**	**1**	**3**
27		48" Underground Non-potable water line		**EXUGNW-48**	**1**	**3**
27		48" Underground Non-potable water line **[Quality Level B]**		**EXUGNW-48B**	**1**	**3**
27		48" Underground Non-potable water line **[Quality Level C]**		**EXUGNW-48C**	**1**	**3**
28		Steam (Underground) cell			**4**	**3**
29		Steam (Underground) [Text-label,size,type]			**4**	**3**
30		Steam (Underground) line		**EXUGSTM**	**4**	**3**
30		Steam (Underground) line **[Quality Level B]**		**EXUGSTM-B**	**4**	**3**
30		Steam (Underground) line **[Quality Level C]**		**EXUGSTM-C**	**4**	**3**
30		24" Underground Steam line		**EXUGSTM-24**	**4**	**3**
30		24" Underground Steam line **[Quailty Level B]**		**EXUGSTM-24B**	**4**	**3**
30		24" Underground Steam line **[Quailty Level C]**		**EXUGSTM-24C**	**4**	**3**

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MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAiCE Feature Code	Microstation Line Style or Cell	Color	Weight
30		30" Underground Steam line		**EXUGSTM-30**	**4**	**3**
30		30" Underground Steam line **[Quality Level B]**		**EXUGSTM-30B**	**4**	**3**
30		30" Underground Steam line **[Quality Level C]**		**EXUGSTM-30C**	**4**	**3**
30		36" Underground Steam line		**EXUGSTM-36**	**4**	**3**
30		36" Underground Steam line **[Quality Level B]**		**EXUGSTM-36B**	**4**	**3**
30		36" Underground Steam line **[Quality Level C]**		**EXUGSTM-36C**	**4**	**3**
30		42" Underground Steam line		**EXUGSTM-42**	**4**	**3**
30		42" Underground Steam line **[Quality Level B]**		**EXUGSTM-42B**	**4**	**3**
30		42" Underground Steam line **[Quality Level C]**		**EXUGSTM-42C**	**4**	**3**
30		48" Underground Steam line		**EXUGSTM-48**	**4**	**3**
30		48" Underground Steam line **[Quality Level B]**		**EXUGSTM-48B**	**4**	**3**
30		48" Underground Steam line **[Quality Level C]**		**EXUGSTM-48C**	**4**	**3**
31		Unknown Utility (Underground) cell			**0**	**3**
32		Unknown Utility (Underground) [Text-label,size,type]			**0**	**3**
33		Unknown Utility (Underground) line **[Quality Level B Only]**		**EXUGUNK-B**	**0**	**3**
Overhead						
34		Telephone (Overhead) cell			**6**	**3**
35		Telephone (Overhead) [Text-label,size,type]			**6**	**3**
36		Telephone (Overhead) line		**EXOHT**	**6**	**3**
37		Television (Overhead) cell			**6**	**3**
38		Television (Overhead) [Text-label,size,type]			**6**	**3**
39		Television (Overhead) line		**EXOHTV**	**6**	**3**
40		Electrical (Overhead) cell			**3**	**3**
41		Electrical (Overhead) [Text-label,size,type]			**3**	**3**
42		Electrical (Overhead) line		**EXOHE**	**3**	**3**

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MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAiCE Feature Code	Microstation Line Style or Cell	Color	Weight
43		Traffic Control (Overhead) cell			3	3
44		Traffic Control (Overhead) [Text-label,size,type]			3	3
45		Traffic Control (Overhead) line		EXOHTC	3	3
46		Microwave (Overhead) cell			0	3
47		Microwave (Overhead) [Text-label,size,type]			0	3
48		Microwave (Overhead) line		EXOHMV	0	3
49		Combination Utility cell			3	3
50		Combination Utility [Text-label,size,type]			3	3
51		Combination Utility (Overhead) line			3	3
51		Combination Utility (Overhead) line [Electric and Telephone]		EXOHET	3	3
51		Combination Utility (Overhead) line [Electric, Telephone and Television]		EXOHETTV	3	3
51		Combination Utility (Overhead) line [Electric and Television]		EXOHETV	3	3
51		Combination Utility (Overhead) line [Telephone and Television]		EXOHTTV	3	3
51		Combination Utility (Overhead) line [Guy Wire]		EXOHGW	3	3
52						
53						
54						
55						
56						
57						
58						
59						
60		Test Holes cell			0	3
61		Test Holes [Text-label,size,type]			0	3
62		Limits of Study		LOS	0	3
63		Miscellaneous Notes **(Not plotted)**				

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MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAiCE Feature Code	Microstation Line Style or Cell	Color	Weight
Underground						
1		Electrical (Underground) cell			**3**	**3**
2		Electrical (Underground) [Text-label,size,type]			**3**	**3**
3		Electrical (Underground) line		**PRUGE**	**3**	**3**
3		Remove Electrical (Underground) line		**REXUGE**	**3**	**3**
3		Remove Electrical (Underground) line **[Quality Level B]**		**REXUGE-B**	**3**	**3**
3		Remove Electrical (Underground) line **[Quality Level C]**		**REXUGE-C**	**3**	**3**
4		Gas (Underground) cell			**4**	**3**
5		Gas (Underground) [Text-label,size,type]			**4**	**3**
6		Gas (Underground) line		**PRUGG**	**4**	**3**
6		Remove Underground Gas line		**REXUGG**	**4**	**3**
6		Remove Gas (Underground) line **[Quality Level B]**		**REXUGG-B**	**4**	**3**
6		Remove Gas (Underground) line **[Quality Level C]**		**REXUGG-C**	**4**	**3**
6		24" Underground Gas line		**PRUGG-24**	**4**	**3**
6		Remove 24" Underground Gas line		**REXUGG-24**	**4**	**3**
6		Remove 24" Underground Gas line **[Quality Level B]**		**REXUGG-24B**	**4**	**3**
6		Remove 24" Underground Gas line **[Quality Level C]**		**REXUGG-24C**	**4**	**3**
6		30" Underground Gas line		**PRUGG-30**	**4**	**3**
6		Remove 30" Underground Gas line		**REXUGG-30**	**4**	**3**
6		Remove 30" Underground Gas line **[Quality Level B]**		**REXUGG-30B**	**4**	**3**
6		Remove 30" Underground Gas line **[Quality Level C]**		**REXUGG-30C**	**4**	**3**
6		36" Underground Gas line		**PRUGG-36**	**4**	**3**
6		Remove 36" Underground Gas line		**REXUGG-36**	**4**	**3**
6		Remove 36" Underground Gas line **[Quality Level B]**		**REXUGG-36B**	**4**	**3**
6		Remove 36" Underground Gas line **[Quality Level C]**		**REXUGG-36C**	**4**	**3**
6		42" Underground Gas line		**PRUGG-42**	**4**	**3**

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MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAiCE Feature Code	Microstation Line Style or Cell	Color	Weight
6		Remove 42" Underground Gas line		REXUGG-42	4	3
6		Remove 42" Underground Gas line **[Quality Level B]**		REXUGG-42B	4	3
6		Remove 42" Underground Gas line **[Quality Level C]**		REXUGG-42C	4	3
6		48" Underground Gas line		PRUGG-48	4	3
6		Remove 48" Underground Gas line		REXUGG-48	4	3
6		Remove 48" Underground Gas line **[Quality Level B]**		REXUGG-48B	4	3
6		Remove 48" Underground Gas line **[Quality Level C]**		REXUGG-48C	4	3
10		Sanitary Sewer (Underground) cell			2	3
11		Sanitary Sewer (Underground) [Text-label,size,type]			2	3
12		Sanitary Sewer (Underground) line		PRUGSS	2	3
12		Remove Sanitary Sewer (Underground) line		REXUGSS	2	3
12		Remove Sanitary Sewer (Underground) line [**Quality Level B]**		REXUGSS-B	2	3
12		Remove Sanitary Sewer (Underground) line **[Quality Level C]**		REXUGSS-C	2	3
12		24" Underground Sanitary Sewer line		PRUGSS-24	2	3
12		Remove 24" Underground Sanitary Sewer line		REXUGSS-24	2	3
12		Remove 24" Underground Sanitary Sewer line **[Quality Level B]**		REXUGSS-24B	2	3
12		Remove 24" Underground Sanitary Sewer line [**Quality Level C]**		REXUGSS-24C	2	3
12		30" Underground Sanitary Sewer line		PRUGSS-30	2	3
12		Remove 30" Underground Sanitary Sewer line		REXUGSS-30	2	3
12		Remove 30" Underground Sanitary Sewer line **[Quality Level B]**		REXUGSS-30B	2	3
12		Remove 30" Underground Sanitary Sewer line **[Quality Level C]**		REXUGSS-30C	2	3

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MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAiCE Feature Code	Microstation Line Style or Cell	Color	Weight
12		36" Underground Sanitary Sewer line		PRUGSS-36	2	3
12		Remove 36" Underground Sanitary Sewer line		REXUGSS-36	2	3
12		Remove 36" Underground Sanitary Sewer line **[Quality Level B]**		REXUGSS-36B	2	3
12		Remove 36" Underground Sanitary Sewer line **[Quality Level C]**		REXUGSS-36C	2	3
12		42" Underground Sanitary Sewer line		PRUGSS-42	2	3
12		Remove 42" Underground Sanitary Sewer line		REXUGSS-42	2	3
12		Remove 42" Underground Sanitary Sewer line **[Quality Level B]**		REXUGSS-42B	2	3
12		Remove 42" Underground Sanitary Sewer line **[Quality Level C]**		REXUGSS-42C	2	3
12		48" Underground Sanitary Sewer line		PRUGSS-48	2	3
12		Remove 48" Underground Sanitary Sewer line		REXUGSS-48	2	3
12		Remove 48" Underground Sanitary Sewer line **[Quality Level B]**		REXUGSS-48B	2	3
12		Remove 48" Underground Sanitary Sewer line **[Quality Level C]**		REXUGSS-48C	2	3
10		Sanitary Force Main (Underground) cell			2	3
11		Sanitary Force Main (Underground) [Text-label,size,type]			2	3
12		Sanitary Force Main (Underground) line		PRUGSFM	2	3
12		Remove Sanitary Force Main (Underground) line		REXUGSFM	2	3
12		Remove Sanitary Force Main (Underground) line **[Quality Level B]**		REXUGSFM-B	2	3
12		Remove Sanitary Force Main (Underground) line **[Quality Level C]**		REXUGSFM-C	2	3

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MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAiCE Feature Code	Microstation Line Style or Cell	Color	Weight
13		Water (Underground) cell			**1**	**3**
14		Water (Underground) [Text-label,size,type]			**1**	**3**
15		Water (Underground) line		**PRUGW**	**1**	**3**
15		Remove Water (Underground) line		**REXUGW**	**1**	**3**
15		Remove Water (Underground) line **[Quality Level B]**		**REXUGW-B**	**1**	**3**
15		Remove Water (Underground) line **[Quality Level C]**		**REXUGW-C**	**1**	**3**
15		24" Underground Water line		**PRUGW-24**	**1**	**3**
15		Remove 24" Underground Water line		**REXUGW-24**	**1**	**3**
15		Remove 24" Underground Water line **[Quality Level B]**		**REXUGW-24B**	**1**	**3**
15		Remove 24" Underground Water line **[Quality Level C]**		**REXUGW-24C**	**1**	**3**
15		30" Underground Water line		**PRUGW-30**	**1**	**3**
15		Remove 30" Underground Water line		**REXUGW-30**	**1**	**3**
15		Remove 30" Underground Water line **[Quality Level B]**		**REXUGW-30B**	**1**	**3**
15		Remove 30" Underground Water line **[Quality Level C]**		**REXUGW-30C**	**1**	**3**
15		36" Underground Water line		**PRUGW-36**	**1**	**3**
15		Remove 36" Underground Water line		**REXUGW-36**	**1**	**3**
15		Remove 36" Underground Water line **[Quality Level B]**		**REXUGW-36B**	**1**	**3**
15		Remove 36" Underground Water line **[Quality Level C]**		**REXUGW-36C**	**1**	**3**
15		42" Underground Water line		**PRUGW-42**	**1**	**3**
15		Remove 42" Underground Water line		**REXUGW-42**	**1**	**3**
15		Remove 42" Underground Water line **[Quality Level B]**		**REXUGW-42B**	**1**	**3**
15		Remove 42" Underground Water line **[Quality Level C]**		**REXUGW-42C**	**1**	**3**
15		48" Underground Water line		**PRUGW-48**	**1**	**3**
15		Remove 48" Underground Water line		**REXUGW-48**	**1**	**3**
15		Remove 48" Underground Water line **[Quality Level B]**		**REXUGW-48B**	**1**	**3**
15		Remove 48" Underground Water line **[Quality Level C]**		**REXUGW-48C**	**1**	**3**

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MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAiCE Feature Code	Microstation Line Style or Cell	Color	Weight
16		Television (Underground) cell			**6**	**3**
17		Television (Underground) [Text-label,size,type]			**6**	**3**
18		Television (Underground) line		**PRUGTV**	**6**	**3**
18		Remove Television (Underground) line		**REXUGTV**	**6**	**3**
18		Remove Television (Underground) line **[Quality Level B]**		**REXUGTV-B**	**6**	**3**
18		Remove Television (Underground) line **[Quality Level C]**		**REXUGTV-C**	**6**	**3**
19		Petroleum (Underground) cell			**4**	**3**
20		Petroleum (Underground) [Text-label,size,type]			**4**	**3**
21		Petroleum (Underground) line		**PRUGP**	**4**	**3**
21		Remove Petroleum (Underground) line		**REXUGP**	**4**	**3**
21		Remove Petroleum (Underground) line **[Quality Level B]**		**REXUGP-B**	**4**	**3**
21		Remove Petroleum (Underground) line **[Quality Level C]**		**REXUGP-C**	**4**	**3**
21		24" Underground Pertoleum line		**PRUGP-24**	**4**	**3**
21		Remove 24" Underground Pertoleum line		**REXUGP-24**	**4**	**3**
21		Remove 24" Underground Pertoleum line **[Quality Level B]**		**REXUGP-24B**	**4**	**3**
21		Remove 24" Underground Pertoleum line **[Quality Level C]**		**REXUGP-24C**	**4**	**3**
21		30" Underground Petroleum line		**PRUGP-30**	**4**	**3**
21		Remove 30" Underground Petroleum line		**REXUGP-30**	**4**	**3**
21		Remove 30" Underground Petroleum line **[Quality Level B]**		**REXUGP-30B**	**4**	**3**
21		Remove 30" Underground Petroleum line **[Quality Level C]**		**REXUGP-30C**	**4**	**3**
21		36" Underground Petroleum line		**PRUGP-36**	**4**	**3**
21		Remove 36" Underground Petroleum line		**REXUGP-36**	**4**	**3**
21		Remove 36" Underground Petroleum line **[Quality Level B]**		**REXUGP-36B**	**4**	**3**
21		Remove 36" Underground Petroleum line **[Quality Level C]**		**REXUGP-36C**	**4**	**3**
21		42" Underground Petroleum line		**PRUGP-42**	**4**	**3**
21		Remove 42" Underground Petroleum line		**REXUGP-42**	**4**	**3**
21		Remove 42" Underground Petroleum line **[Quality Level B]**		**REXUGP-42B**	**4**	**3**

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MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAiCE Feature Code	Microstation Line Style or Cell	Color	Weight
21		Remove 42" Underground Petroleum line **[Quality Level C]**		**REXUGP-42C**	**4**	**3**
21		48" Underground Petroleum line		**PRUGP-48**	**4**	**3**
21		Remove 48" Underground Petroleum line		**REXUGP-48**	**4**	**3**
21		Remove 48" Underground Petroleum line **[Quality Level B]**		**REXUGP-48B**	**4**	**3**
21		Remove 48" Underground Petroleum line **[Quality Level C]**		**REXUGP-48C**	**4**	**3**
22		Telephone (Underground) cell			**6**	**3**
23		Telephone (Underground) [Text-label,size,type]			**6**	**3**
24		Telephone (Underground) line		**PRUGT**	**6**	**3**
24		Remove Telephone (Underground) line		**REXUGT**	**6**	**3**
24		Remove Telephone (Underground) line **[Quality Level B]**		**REXUGT-B**	**6**	**3**
24		Remove Telephone (Underground) line **[Quality Level C]**		**REXUGT-C**	**6**	**3**
25		Non-potable water (Underground) cell			**1**	**3**
26		Non-potable water (Underground) [Text-label,size,type]			**1**	**3**
27		Non-potable water (Underground) line		**PRUGNW**	**1**	**3**
27		Remove Non-potable water (Underground) line		**REXUGNW**	**1**	**3**
27		Remove Non-potable water (Underground) line **[Quality Level B]**		**REXUGNW-B**	**1**	**3**
27		Remove Non-potable water (Underground) line **[Quality Level C]**		**REXUGNW-C**	**1**	**3**
27		24" Underground Non-potable water line		**PRUGNW-24**	**1**	**3**
27		Remove 24" Underground Non-potable water line		**REXUGNW-24**	**1**	**3**
27		Remove 24" Underground Non-potable water line **[Quality Level B]**		**REXUGNW-24B**	**1**	**3**
27		Remove 24" Underground Non-potable water line **[Quality Level C]**		**REXUGNW-24C**	**1**	**3**
27		30" Underground Non-potable water line		**PRUGNW-30**	**1**	**3**
27		Remove 30" Underground Non-potable water line		**REXUGNW-30**	**1**	**3**

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MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAiCE Feature Code	Microstation Line Style or Cell	Color	Weight
27		Remove 30" Underground Non-potable water line **[Quality Level B]**		**REXUGNW-30B**	**1**	**3**
27		Remove 30" Underground Non-potable water line **[Quality Level C]**		**REXUGNW-30C**	**1**	**3**
27		36" Underground Non-potable water line		**PRUGNW-36**	**1**	**3**
27		Remove 36" Underground Non-potable water line		**REXUGNW-36**	**1**	**3**
27		Remove 36" Underground Non-potable water line **[Quality Level B]**		**REXUGNW-36B**	**1**	**3**
27		Remove 36" Underground Non-potable water line **[Quality Level C]**		**REXUGNW-36C**	**1**	**3**
27		42" Underground non-potable water line		**PRUGNW-42**	**1**	**3**
27		Remove 42" Underground non-potable water line		**REXUGNW-42**	**1**	**3**
27		Remove 42" Underground non-potable water line **[Quality Level B]**		**REXUGNW-42B**	**1**	**3**
27		Remove 42" Underground non-potable water line **[Quality Level C]**		**REXUGNW-42C**	**1**	**3**
27		48" Underground Non-potable water line		**PRUGNW-48**	**1**	**3**
27		Remove 48" Underground Non-potable water line		**REXUGNW-48**	**1**	**3**
27		Remove 48" Underground Non-potable water line **[Quality Level B]**		**REXUGNW-48B**	**1**	**3**
27		Remove 48" Underground Non-potable water line **[Quality Level C]**		**REXUGNW-48C**	**1**	**3**
28		Steam (Underground) cell			**4**	**3**
29		Steam (Underground) [Text-label,size,type]			**4**	**3**
30		Steam (Underground) line		**PRUGSTM**	**4**	**3**
30		Remove Steam (Underground) line		**REXUGSTM**	**4**	**3**
30		Remove Steam (Underground) line **[Quality Level B]**		**REXUGSTM-B**	**4**	**3**

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MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAiCE Feature Code	Microstation Line Style or Cell	Color	Weight
30		Remove Steam (Underground) line **[Quality Level C]**		**REXUGSTM-C**	**4**	**3**
30		24" Underground Steam line		**PRUGSTM-24**	**4**	**3**
30		Remove 24" Underground Steam line		**REXUGSTM-24**	**4**	**3**
30		Remove 24" Underground Steam line **[Quailty Level B]**		**REXUGSTM-24B**	**4**	**3**
30		Remove 24" Underground Steam line **[Quailty Level C]**		**REXUGSTM-24C**	**4**	**3**
30		30" Underground Steam line		**PRUGSTM-30**	**4**	**3**
30		Remove 30" Underground Steam line		**REXUGSTM-30**	**4**	**3**
30		Remove 30" Underground Steam line **[Quality Level B]**		**REXUGSTM-30B**	**4**	**3**
30		Remove 30" Underground Steam line **[Quality Level C]**		**REXUGSTM-30C**	**4**	**3**
30		36" Underground Steam line		**PRUGSTM-36**	**4**	**3**
30		Remove 36" Underground Steam line		**REXUGSTM-36**	**4**	**3**
30		Remove 36" Underground Steam line **[Quality Level B]**		**REXUGSTM-36B**	**4**	**3**
30		Remove 36" Underground Steam line **[Quality Level C]**		**REXUGSTM-36C**	**4**	**3**
30		42" Underground Steam line		**PRUGSTM-42**	**4**	**3**
30		Remove 42" Underground Steam line		**REXUGSTM-42**	**4**	**3**
30		Remove 42" Underground Steam line **[Quality Level B]**		**REXUGSTM-42B**	**4**	**3**
30		Remove 42" Underground Steam line **[Quality Level C]**		**REXUGSTM-42C**	**4**	**3**
30		48" Underground Steam line		**PRUGSTM-48**	**4**	**3**
30		Remove 48" Underground Steam line		**REXUGSTM-48**	**4**	**3**
30		Remove 48" Underground Steam line **[Quality Level B]**		**REXUGSTM-48B**	**4**	**3**
30		Remove 48" Underground Steam line **[Quality Level C]**		**REXUGSTM-48C**	**4**	**3**
31		Unknown Utility (Underground) cell			**0**	**3**
32		Unknown Utility (Underground) [Text-label,size,type]			**0**	**3**
33		Unknown Utility (Underground) line **[Quality Level B Only]**		**REXUGUNK-B**	**0**	**3**

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MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAiCE Feature Code	Microstation Line Style or Cell	Color	Weight
Overhead						
34		Telephone (Overhead) cell			**6**	**3**
35		Telephone (Overhead) [Text-label,size,type]			**6**	**3**
36		Telephone (Overhead) line		**PROHT**	**6**	**3**
		Remove Telephone (Overhead) line		**REXOHT**		
37		Television (Overhead) cell			**6**	**3**
38		Television (Overhead) [Text-label,size,type]			**6**	**3**
39		Television (Overhead) line		**PROHTV**	**6**	**3**
		Remove Television (Overhead) line		**REXOHTV**		
40		Electrical (Overhead) cell			**3**	**3**
41		Electrical (Overhead) [Text-label,size,type]			**3**	**3**
42		Electrical (Overhead) line		**PROHE**	**3**	**3**
		Remove Electrical (Overhead) line		**REXOHE**		
46		Microwave (Overhead) cell			**0**	**3**
47		Microwave (Overhead) [Text-label,size,type]			**0**	**3**
48		Microwave (Overhead) line		**PROHMW**	**0**	**3**
		Remove Microwave (Overhead) line		**REXOHMW**		
49		Combination Utility cell			**3**	**3**
50		Combination Utility [Text-label,size,type]			**3**	**3**
51		Combination Utility (Overhead) line			**3**	**3**
51		Combination Utility (Overhead) line [Electric and Telephone]		**PROHET**	**3**	**3**
		Remove Combination Utility (Overhead) line [Electric and Telephone]		**REXOHET**		
51		Combination Utility (Overhead) line [Electric, Telephone and Television]		**PROHETTV**	**3**	**3**
		Remove Combination Utility (Overhead) line [Electric, Telephone and Television]		**REXOHETTV**		
51		Combination Utility (Overhead) line [Electric and Television]		**PROHETV**	**3**	**3**
		Remove Combination Utility (Overhead) line [Electric and Television]		**REXOHETV**		

UTLP

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 [Telephone and Television]		**PROHTTV**	**3**	**3**
		Remove Combination Utility (Overhead) line [Telephone and Television]		**REXOHTTV**		
51		Combination Utility (Overhead) line [Guy Wire]		**PROHGW**	**3**	**3**
		Remove Combination Utility (Overhead) line [Guy Wire]		**REXOHGW**		
52						
53						
54						
55						
56						
57						
58						
59						
60		Test Holes cell			**0**	**3**
61		Test Holes [Text-label,size,type]			**0**	**3**
62		Limits of Study		**LOS**	**0**	**3**
63		Miscellaneous Notes **(Not plotted)**				

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**

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				
7		Traffic Flow Arrows and Edge of Travelway				
8		Current Stage Hatching (Construction & Removal)				
9		Current Stage Labels and Travelway Dimensions				
10		Temporary Drainage Structures				
11		Temporary Drainage Structures - Descriptions				
12		Temporary Pavement/Widening				
13		Temporary Barrier/Barricades				
14		Construction Limits				
15		Miscellaneous				
EROSION CONTROL						
20		Silt Fence - Type A				
21		Silt Fence - Type B				
22		Silt Fence - Type C				
23		Baled Straw				
24		Silt Retention Barrier (Floating or Staked)				
25		Ditch Checks - Baled Straw				

MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAiCE Feature Code	Microstation Line Style or Cell	Color	Weight
26		Ditch Checks - Temporary Rip Rap				
27		Ditch Checks - Silt Fence Type A				
28		Ditch Checks - Silt Fence Type B				
29		Ditch Checks - Silt Fence Type C				
30		Silt Control Gates				
31		Inlet Sediment Traps				
32		Slope Stabilization Mats/Blankets/Geogrid				
33		Construction Entrances				
34		Temporary Pipe Slope Drains				
35		Temporary Earth Berm				
36		Diversion Channels				
37		General Erosion Control Notes and symbols per stage				
38		Ditch Protection - Bituminous Roving			**4**	**2**
39		Ditch Protection - Mats/Blankets			**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**
44		Detour superelevation labels		**0**	**4**	**2**
45		Miscellaneous detail information		**0**	**4**	**2**
46		**Available**				
47		**Available**				
48		**Available**				
49		**Available**				
50		**Available**				
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**	**3**	**7**	**2**
6		Property line **line**	**PAR**	**3**	**7**	**2**
6		Existing Limited Access R/W lines and cells			**7**	**2**
7		Property line **line description**	**PAR**	**3**	**7**	**2**
PROPERTY LINE POINTS						
8		Property point on line **point symbol**	**PPOL**	**7**	**7**	**2**
9		Property point on line **point # text**	**PPOL**	**7**	**7**	**2**
8		Property point computed **point symbol**	**PPC**	**7**	**7**	**2**
9		Property point computed **point # text**	**PPC**	**7**	**7**	**2**
8		Property corner found **point symbol**	**PCF**	**7**	**7**	**2**
9		Property corner found **point # text**	**PCF**	**7**	**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**	**3**	**4**	**2**
10		Right of way computed **point symbol**	**RWC**	**7**	**4**	**2**
11		Right of way computed **point # text**	**RWC**	**7**	**4**	**2**
10		Right of way prescription point **point symbol**	**RWE**	**3**	**4**	**2**
11		Right of way prescription point **point # text**	**RWE**	**3**	**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**	**3**	**4**	**2**
13		Right of way railroad **line**	**RWRR**	**3**	**4**	**2**
14		Right of way railroad **line description**	**RWRR**	**3**	**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**	**3**	**4**	**2**
16		Right of way utility company **line**	**RWU**	**3**	**4**	**2**
17		Right of way utility company **line description**	**RWU**	**3**	**4**	**2**
EXISTING EASEMENT						
18		Easement line point **symbol**	**POEL**	**3**	**0**	**2**
51		Easement line point **# text, chain name**	**POEL**	**3**	**0**	**2**
19		Easement line **line**	**POEL**	**3**	**0**	**2**
20		Easement line **description**	**POEL**	**3**	**0**	**2**
PROPERTY BOUNDARY LINE MISCELLANEOUS						
25		Property boundary, miscellaneous, existing, **point symbol**	**BMISC**	**7**	**7**	**2**
52		Property boundary, miscellaneous, existing, **point # text, chain name**	**BMISC**	**7**	**7**	**2**
26		Property boundary line, existing, **line**	**BMISC**	**7**	**7**	**2**
27		Property boundary line, existing, **line description**	**BMISC**	**7**	**7**	**2**

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**	**BGL**	**4**	**3**	**4**
53		State line, existing, **point # text, chain name**	**BGL**	**4**	**3**	**4**
34		State line, existing, **line**	**BGL**	**4**	**3**	**4**
35		State line, existing, **line description**	**BGL**	**4**	**3**	**4**
COUNTY LINE						
33		County line, existing, **point symbol**	**BCOL**	**4**	**2**	**4**
54		County line, existing, **point # text, chain name**	**BCOL**	**4**	**2**	**4**
34		County line, existing, **line**	**BCOL**	**4**	**2**	**4**
35		County line, existing, **line description**	**BCOL**	**4**	**2**	**4**
CITY LIMIT LINE						
33		City limit line, existing, **point symbol**	**BCTL**	**4**	**4**	**4**
55		City limit line, existing, **point # text, chain name**	**BCTL**	**4**	**4**	**4**
34		City limit line, existing, **line**	**BCTL**	**4**	**4**	**4**
35		City limit line, existing, **line description**	**BCTL**	**4**	**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**	**4**	**5**	**4**
34		Georgia militia district, existing, **line**	**BGMD**	**4**	**5**	**4**
35		Georgia militia district, existing, **line description**	**BGMD**	**4**	**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**	**4**	**6**	**4**
34		Land district line, existing, **line**	**BLDL**	**4**	**6**	**4**
35		Land district line, existing, **line description**	**BLDL**	**4**	**6**	**4**
LAND LOT LINE						
33		Land lot line, existing, **point symbol**	**BLLL**	**4**	**7**	**4**
58		Land lot line, existing, **point # text, chain name**	**BLLL**	**4**	**7**	**4**
34		Land lot line, existing, **line**	**BLLL**	**4**	**7**	**4**
35		Land lot line, existing, **line description**	**BLLL**	**4**	**7**	**4**
CALCULATED EXISTING ALIGNMENT						
CENTERLINE						
43		A field survey Alignment centerline point symbol	**ACL**	**2**	**0**	**4**
44		A field survey Alignment centerline point # text	**ACL**	**2**	**0**	**4**
45		A field survey Alignment point symbol description	**ACL**	**2**	**0**	**4**
46		A field survey Alignment centerline elevation	**ACL**	**2**	**0**	**4**
47		A field survey Alignment centerline line	**ACL**	**2**	**0**	**4**
48		A field survey Alignment centerline description	**ACL**	**2**	**0**	**4**
49		A field survey Alignment centerline tics -- (N/A)	**ACL**	**2**	**0**	**4**
50		A field survey Alignment PC/PT -- (N/A)	**ACL**	**2**	**0**	**4**
51		A field survey Alignment bearings, route #, road name.etc.		**3**	**0**	**4**
52		A field survey Alignment curve data -- (N/A)		**3**	**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	**APC**	**2**	**0**	**4**
44		Point on curve, existing, point # text	**APC**	**2**	**0**	**4**
45		Point on curve, existing, description	**APC**	**2**	**0**	**4**
46		Point on curve, existing, elevation	**APC**	**2**	**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**	**2**	**0**	**4**
45		Point of intersection, existing, description	**API**	**2**	**0**	**4**
46		Point of intersection, existing, elevation	**API**	**2**	**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**	**2**	**0**	**4**
45		Point of tangency, existing, description	**APT**	**2**	**0**	**4**
46		Point of tangency, existing, elevation	**APT**	**2**	**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**	**2**	**0**	**4**
45		Point on tangency, existing, description	**APOT**	**2**	**0**	**4**
46		Point on tangency, existing, elevation	**APOT**	**2**	**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	**APOC**	**2**	**0**	**4**
44		Point of curvature, existing, point # text	**APOC**	**2**	**0**	**4**
45		Point of curvature, existing, description	**APOC**	**2**	**0**	**4**
46		Point of curvature, existing, elevation	**APOC**	**2**	**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**	**2**	**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**	**2**	**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**	**2**	**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**	**2**	**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**	**6**	**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**	**2**	**9**	**0**
49		Edge of surface treatment road, existing point symbol, # text, description, elevation	**TEDR**	**2**	**4**	**0**
DIRT DRIVE, EDGE						
3		Dirt drive, edge, existing line	**TDD**	**6**	**11**	**0**
4		Dirt drive, edge, existing line description	**TDD**	**6**	**11**	**0**
49		Dirt drive, edge, 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**	**2**	**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**	**2**	**7**	**0**
49		Edge of concrete drive, existing point symbol, # text, description, elevation	**TECD**	**2**	**4**	**0**
CURB, ASPHALT EXISTING						
5		Curb, asphalt, existing line	**TAC**	**2**	**5**	**0**
6		Curb, asphalt, existing line description	**TAC**	**2**	**5**	**0**
49		Curb, asphalt, existing point symbol, # text, description, elevation	**TAC**	**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 & GUTTER, F/L						
5		Curb & gutter, F/L, existing line	**TCGF**	**2**	**7**	**0**
6		Curb & gutter, F/L, existing line description	**TCGF**	**2**	**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**	**2**	**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**	**2**	**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**	**2**	**7**	**0**
49		V-gutter, existing point symbol, # text, description, elevation	**TVG**	**2**	**4**	**0**
SIDEWALK, EDGE, EXISTING						
7		Sidewalk, edge, existing line	**TSW**	**2**	**7**	**0**
8		Sidewalk, edge, existing line description	**TSW**	**2**	**7**	**0**
49		Sidewalk, edge, existing point symbol, # text, description, elevation	**TSW**	**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
GUARD RAIL, EXISTING						
9		Guard rail, existing line	**TGR**	**2**	**12**	**0**
10		Guard rail, existing line description	**TGR**	**2**	**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**	**2**	**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**	**2**	**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	**TBRDG**	**2**	**15**	**0**
12		Bridge end, center, existing line description	**TBRDG**	**2**	**15**	**0**
50		Bridge end, center, existing point symbol, # text, description, elevation	**TBRDG**	**2**	**4**	**0**
BRIDGE END, CORNER						
11		Bridge end, corner, existing line	**TBRDG**	**2**	**15**	**0**
12		Bridge end, corner, existing line description	**TBRDG**	**2**	**15**	**0**
50		Bridge end, corner, existing point symbol, # text, description, elevation	**TBRDG**	**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, EXISTING						
11		Bridge end, existing line	**TBRDG**	**2**	**15**	**0**
12		Bridge end, existing line description	**TBRDG**	**2**	**15**	**0**
50		Bridge end, existing point symbol, # text, description, elevation	**TBRDG**	**2**	**4**	**0**
RAILROAD CENTERLINE, EXISTING						
50		Railroad centerline, existing line	**TRCL**	**6**	**15**	**0**
50		Railroad centerline, existing line description	**TRCL**	**6**	**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**	**2**	**15**	**0**
14		Railroad, top of rail, existing line description	**TRCR**	**2**	**15**	**0**
50		Railroad, top of rail, existing point symbol, # text, description, elevation	**TRCR**	**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**	**2**	**0**	**0**
50		Building corner, existing point symbol, # text, description, elevation	**TBLD**	**2**	**4**	**0**

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MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAiCE Feature Code	Microstation Line Style or Cell	Color	Weight
BUILDING ROOF LINE, CORNER						
17		Building roof line corner, existing line	**TBLDRL**	**2**	**0**	**0**
18		Building roof line corner, existing line description	**TBLDRL**	**2**	**0**	**0**
50		Building roof line corner, existing point symbol, # text, description, elevation	**TBLDRL**	**2**	**4**	**0**
CANOPY						
17		Canopy, existing line	**TCAN**	**2**	**0**	**0**
18		Canopy, existing line description	**TCAN**	**2**	**0**	**0**
50		Canopy, existing point symbol, # text, description, elevation	**TCAN**	**2**	**4**	**0**
HOUSE CORNER, EXISTING						
17		House corner, existing line	**THCR**	**2**	**0**	**0**
18		House corner, existing line description	**THCR**	**2**	**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**	**2**	**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**	**2**	**0**	**0**
50		Mobile home corner, existing point symbol, # text, description, elevation	**TMHCR**	**2**	**4**	**0**

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MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAiCE Feature Code	Microstation Line Style or Cell	Color	Weight
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**	**2**	**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**	**2**	**7**	**0**
20		Fence, chain link, existing line description	**TFCL**	**2**	**7**	**0**
51		Fence, chain link, existing point symbol, # text, description, elevation	**TFCL**	**2**	**4**	**0**
FENCE, WOOD						
19		Fence, wood, existing line	**TFW**	**2**	**2**	**0**
20		Fence, wood, existing line description	**TFW**	**2**	**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**	**2**	**9**	**0**
20		Fence, barbed wire, existing line description	**TFBW**	**2**	**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**	**2**	**11**	**0**
20		Fence, field wire, existing line description	**TFFW**	**2**	**11**	**0**
51		Fence, field wire, existing point symbol, # text, description, elevation	**TFFW**	**2**	**4**	**0**

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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**		**7**	**0**
22		Well, existing line description	**TWELL**	**2**	**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**		**6**	**0**
22		Gasoline filler valve, existing line description	**TGFV**	**2**	**6**	**0**
51		Gasoline filler valve, existing point symbol, # text, description, elevation	**TGFV**	**2**	**4**	**0**
GASOLINE MONITORING WELL						
21		Gasoline monitoring well, existing point cell	**TGMW**		**4**	**0**
22		Gasoline monitoring well, existing line description	**TGMW**	**2**	**4**	**0**
51		Gasoline monitoring well, existing point symbol, # text, description, elevation	**TGMW**	**2**	**4**	**0**
GASOLINE PUMP, EXISTING						
21		Gasoline pump, existing point cell	**TGP**		**6**	**0**
22		Gasoline pump, existing line description	**TGP**	**2**	**6**	**0**
51		Gasoline pump, existing point symbol, # text, description, elevation	**TGP**	**2**	**4**	**0**
GASOLINE PUMP ISLAND, EXISTING						
21		Gasoline pump island, existing line	**TGPI**	**2**	**6**	**0**
22		Gasoline pump island, existing line description	**TGPI**	**2**	**6**	**0**
51		Gasoline pump island, existing point symbol, # text, description, elevation	**TGPI**	**2**	**4**	**0**

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

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MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAiCE Feature Code	Microstation Line Style or Cell	Color	Weight
DOUBLE CATCH BASIN						
23		Double catch basin existing point cell	**DDCB**		**1**	**0**
24		Double catch basin existing description (Elevation, type, size, etc.)	**DDCB**	**2**	**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**		**1**	**0**
24		Drop inlet, top, existing description (Elevation, type, size, etc.)	**DDI**	**2**	**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**		**1**	**0**
24		Head wall, end, existing line description (Elevation, type, size, etc.)	**DHWE**	**2**	**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**		**1**	**0**
24		Junction box, top, existing line description (Elevation, type, size, etc.)	**DJB**	**2**	**1**	**0**
51		Junction box, top, existing point symbol, # text, description, elevation	**DJB**	**2**	**4**	**0**
DRAINAGE PIPE, F/L						
23		Drainage pipe, F/L,C existing line	**DP**	**6**	**1**	**0**
24		Drainage pipe, F/L,C existing line description (Elevation, type, size, etc.)	**DP**	**6**	**1**	**0**
51		Drainage pipe, F/L,C existing point symbol, # text, description, elevation	**DP**	**2**	**4**	**0**

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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**	**2**	**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**	**6**	**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**	**2**	**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**	**2**	**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**	**2**	**1**	**0**
51		Top of water elevations, existing point symbol, # text, description, elevation	**DWE**	**2**	**4**	**0**

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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**	**2**	**1**	**0**
51		Edge of water, existing point symbol, # text, description, elevation	**DEW**	**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**	**2**	**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**	**2**	**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**	**2**	**1**	**0**
51		Misc. drainage feature, existing point symbol, # text, description, elevation	**DMISC**	**2**	**4**	**0**
WALL FACE, EXISTING						
27		Wall face, existing line	**TWF**	**2**	**7**	**0**
28		Wall face, existing line description	**TWF**	**2**	**7**	**0**
52		Wall face, existing point symbol, # text, description, elevation	**TWF**	**2**	**4**	**0**

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MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAiCE Feature Code	Microstation Line Style or Cell	Color	Weight
SATELLITE DISH						
29		Satellite dish, existing point cell	**TSATDSH**		**12**	**0**
30		Satellite dish, existing line description	**TSATDSH**	**2**	**12**	**0**
52		Satellite dish, existing point symbol, # text, description, elevation	**TSATDSH**	**2**	**4**	**0**
WOODS LINE						
31		Woods line, existing line	**TWL**	**2**	**2**	**0**
32		Woods line, existing line description	**TWL**	**2**	**2**	**0**
52		Woods line, existing point symbol, # text, description, elevation	**TWL**	**2**	**4**	**0**
TREE, CENTER						
31		Tree, center, existing point cell	**TTRE**	**2**	**2**	**0**
32		Tree, center, existing line description	**TTRE**	**2**	**2**	**0**
52		Tree, center, existing point symbol, # text, description, elevation	**TTRE**	**2**	**4**	**0**
GRAVE, EXISTING						
33		Grave, existing line	**TGRV**	**2**	**3**	**0**
34		Grave, existing line description	**TGRV**	**2**	**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**	**2**	**11**	**0**
53		Dam, toe point symbol, # text, description, elevation	**DADB**	**2**	**4**	**0**

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MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAiCE Feature Code	Microstation Line Style or Cell	Color	Weight
DAM, TOP						
35		Dam, top line	**DDT**	**2**	**11**	**0**
36		Dam, top line description	**DDT**	**2**	**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**	**2**	**11**	**0**
53		Spur dike, existing point symbol, # text, description, elevation	**DSPURDK**	**2**	**4**	**0**
MARKER, MISCELLANEOUS						
37		Marker miscellaneous, existing point cell	**TMAR**	**2**	**7**	**0**
38		Marker miscellaneous, existing line description	**TMAR**	**2**	**7**	**0**
53		Marker miscellaneous, existing point symbol, # text, description, elevation	**TMAR**	**2**	**4**	**0**
MILE POST, HIGHWAY, EXISTING						
37		Mile post, highway, existing point cell	**TMPH**		**12**	**0**
38		Mile post, highway, existing line description	**TMPH**	**2**	**12**	**0**
53		Mile post, highway, existing point symbol, # text, description, elevation	**TMPH**	**2**	**4**	**0**
MILE POST, RAILROAD, EXISTING						
37		Mile post, railroad, existing point cell	**TMPR**		**12**	**0**
38		Mile post, railroad, existing line description	**TMPR**	**2**	**12**	**0**
53		Mile post, railroad, existing point symbol, # text, description, elevation	**TMPR**	**2**	**4**	**0**

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

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

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MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAiCE Feature Code	Microstation Line Style or Cell	Color	Weight
LOCATION SURVEY CONTROL						
57		Location survey control point # text, description, point elevation	**SLCD**	**2**	**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**	**2**	**14**	**0**
DISTRICT SURVEY CONTROL						
57		District survey control point # text, description, point elevation	**SDCD**	**2**	**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**	**2**	**14**	**0**
BENCH MARK						
57		Bench mark, point # text, description, elevation	**SBNCHMK**	**2**	**14**	**0**
58		Bench mark, point symbol	**SBNCHMK**	**2**	**14**	**0**
58		Bench mark, point information	**SBNCHMK**	**2**	**14**	**0**
NGS CONTROL MONUMENT						
57		NGS control monument, point # text, description, elevation	**SNGSCM**	**2**	**14**	**0**
58		NGS control monument, point symbol	**SNGSCM**	**2**	**14**	**0**
58		NGS control monument, point information	**SNGSCM**	**2**	**14**	**0**
LOCATION CONTROL MONUMENT						
57		Location control monument, point # text, description, elevation	**SLCM**	**2**	**14**	**0**
58		Location control monument, point symbol	**SLCM**	**2**	**14**	**0**
58		Location control monument, point information	**SLCM**	**2**	**14**	**0**

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MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAiCE Feature Code	Microstation Line Style or Cell	Color	Weight
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**	**2**	**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**	**2**	**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**	**2**	**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**	**2**	**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**	**2**	**0**	**0**

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MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAiCE Feature Code	Microstation Line Style or Cell	Color	Weight
OBSCURED AREA						
61		Obscured area, existing point symbol, # text, description, elevation	**OBSC**	**2**	**3**	**0**
62		Obscured area, existing line	**OBSC**	**2**	**3**	**0**
62		Obscured area, existing line description	**OBSC**	**2**	**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**	**2**	**3**	**0**

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**			
1		Stream Delineation, **lines**				
2		Wetland and Stream, **description & labels**				
3		Wetlands, **patterning**				
4		Wetlands, **shapes** for patterning ?				
Ecology						
6		Endangered Species, **lines & cells** (delineations)				
8		Endangered Species, **description & labels**				
9		Endangered Species, **patterning**				
10		Endangered Species, **shapes** for patterning ?				
History						
11		Historic Resource, **lines**				
12		Historic Resource, **description & labels**				
13		Historic Resource, **patterning**				
14		Historic Resource, **shapes** for patterning ?				
Archaeology						
15		Archaeological Resource, **lines**				
16		Archaeological Resource, **description & labels**				
17		Archaeological Resource, **patterning**				
18		Archaeological Resource, **shapes** for patterning ?				

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)				
20		Cemetery boundary, **lines**	**TCEM**	**2**	**3**	**0**
21		Cultural Resource, **description & labels**				
22		Cultural Resource, **patterning**				
23		Cultural Resource, **shapes** for patterning ?				
Hazardous Material Locations (UST's)						
25		Hazardous Material, **lines & cells** (delineations)				
26		Hazardous Material, **description & labels**				
27		Hazardous Material, **patterning**				
28		Hazardous Material, **shapes** for patterning ?				
Environmental Justice						
30		Environmental Justice, **lines**				
31		Environmental Justice, **description & labels**				
32		Environmental Justice, **patterning**				
33		Environmental Justice, **shapes** for patterning ?				
Environmentally Sensitive Areas (For Final Construction Plans)						
Includes Wetlands and Ecologically Significant Areas; Historic, Archaeological & Park Boundaries;						
40		ESA, **lines**				
41		ESA, **description & labels**				
42		ESA, **patterning**				
43		ESA, **shapes** for patterning?				

ENVP

MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAiCE Feature Code	Microstation Line Style or Cell	Color	Weight
ENVP (Proposed Environmental Impacts and Mitigation File)						
SOCIAL IMPACTS AND MITIGATION						
	9	Relocations, lines ("X" over buildings to be taken)				
	11	Relocations, text				
	12	Social resource impact areas, lines				
	13	Social resource impact areas, patterning				
	14	Social resource impact areas, text				
CULTURAL IMPACTS AND MITITGATION						
	17	History Area of Potential Effect (APE), lines				
	18	History Area of Potential Effect (APE), patterning				
	19	History Area of Potential Effect (APE), text				
	20	Cultural resource impact areas, lines				
	21	Cultural resource impact areas, patterning				
	22	Cultural resource impact areas, text				

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				
	26	**Wetland impact areas, patterning**				
	27	Wetland impact areas, text				
	28	Wetland Mitigation sites, lines				
	29	Wetland Mitigation sites, patterning				
	30	Wetland Mitigation sites, text				
	31	Floodplain impact areas, lines				
	32	Floodplain impact areas, patterning				
	33	Floodplain impact areas, text				
IMPACTS TO PHYSICAL RESOURCES AND MITIGATION						
	41	Impacted UST's				
		Noise study - receptors				
		Noise study - readings				
		Noise study - projected noise levels				
		Noise study - noise contours				
		Noise study - impacted properties				
		Viewshed, Visual Impacts				

LNSC

MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAiCE Feature Code	Microstation Line Style or Cell	Color	Weight
EXISTING						
1		TREEC CELL (CONIFEROUS TREE)		ETREEC	2	0
1		CTREE CELL (CONIFEROUS TREE)		ECTREE	4	0
2		DTREE CELL (DECIDUOUS TREE)		EDTREE	4	0
2		TREED CELL(DECIDUOUS TREE)		ETREED	2	0
3		TREE CELL(GENERIC TREE SYMBOL)		EGTREE	4	0
3		TREE CELL		ETREE	4	0
3		TREECY CELL (CYPRESS TREE)		ETREEC	2	0
3		TREEOA CELL (OAK TREE)		ETREEO	2	0
3		TREEPA CELL (PALM TREE)		ETREEP	2	0
3		TREEPI CELL (PINE TREE)		ETREEI	2	0
3		TREE CELL (SINGLE TREE)		ESTREE	4	0
4		PSHRUB		ESHRUB	4	0
4		SHRC CELL (CONIFEROUS SHRUB)		ESHRC	2	0
4		SHRD CELL (DECIDUOUD SHRUB)		ESHRD	2	0
5		ORNAMENTAL PLANT		EOPLNT	4	0
6		TREE LINE		ETLINE	2	0
6		WDL (WOODS LINE)		EWDL	2	0
6		TREMAS (TREE MASS)		ETREMA	4	0
6		REVBUB (REVISION BUBBLE)		EREVBU	3	0
7		MARSH OR SWAMP		EMARSH	2	0
7		SWAMP (SWAMP AREA)		ESWAMP	4	0
8		STM (TREE STUMP)		ESTM	2	0

LNSC

MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAiCE Feature Code	Microstation Line Style or Cell	Color	Weight
REMOVE						
21		TREEC CELL (CONIFEROUS TREE)		RTREEC	2	1
21		CTREE CELL (CONIFEROUS TREE)		RCTREE	4	1
22		DTREE CELL (DECIDUOUS TREE)		RDTREE	4	1
22		TREED CELL(DECIDUOUS TREE)		RTREED	2	1
23		TREE CELL(GENERIC TREE SYMBOL)		RGTREE	4	1
23		TREE CELL		RTREE	4	1
23		TREECY CELL (CYPRESS TREE)		RTREEC	2	1
23		TREEOA CELL (OAK TREE)		RTREEO	2	1
23		TREEPA CELL (PALM TREE)		RTREEP	2	1
23		TREEPI CELL (PINE TREE)		RTREEI	2	1
23		TREE CELL (SINGLE TREE)		RSTREE	4	1
4		PSHRUB		PSHRUB	4	1
4		SHRC CELL (CONIFEROUS SHRUB)		PSHRC	2	1
24		SHRUB		RSHRUB	4	1
24		SHRD CELL (DECIDUOUD SHRUB)		RSHRD	2	1
25		ORNAMENTAL PLANT		ROPLNT	4	1
26		TREE LINE		RTLINE	2	1
26		WDL (WOODS LINE)		RWDL	2	1
26		TREMAS (TREE MASS)		RTREMA	4	1
26		REVBUB (REVISION BUBBLE)		RREVBU	3	1
27		MARSH OR SWAMP		RMARSH	2	1
27		SWAMP (SWAMP AREA)		RSWAMP	4	1
28		STM (TREE STUMP)		RSTM	2	1

MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAiCE Feature Code	Microstation Line Style or Cell	Color	Weight
PROPOSED						
41		TREEC CELL (CONIFEROUS TREE)		`	2	2
41		CTREE CELL (CONIFEROUS TREE)		PCTREE	4	2
42		DTREE CELL (DECIDUOUS TREE)		PDTREE	4	2
42		TREED CELL(DECIDUOUS TREE)		PTREED	2	2
43		TREE CELL(GENERIC TREE SYMBOL)		PGTREE	4	2
3		TREE CELL		PTREE	4	2
43		TREECY CELL (CYPRESS TREE)		PTREEC	2	2
43		TREEOA CELL (OAK TREE)		PTREEO	2	2
43		TREEPA CELL (PALM TREE)		PTREEP	2	2
43		TREEPI CELL (PINE TREE)		PTREEI	2	2
3		TREE CELL (SINGLE TREE)		PSTREE	4	2
44		PSHRUB		PSHRUB	4	2
44		SHRC CELL (CONIFEROUS SHRUB)		PSHRC	2	2
44		SHRD CELL (DECIDUOUD SHRUB)		PSHRD	2	2
45		ORNAMENTAL PLANT		POPLNT	4	2
46		TREE LINE		PTLINE	2	2
46		WDL (WOODS LINE)		PWDL	2	2
46		TREMAS (TREE MASS)		PTREMA	4	2
46		WDL (WOODS LINE)		PWDL	2	2
46		TREMAS (TREE MASS)		PTREMA	4	2
46		REVBUB (REVISION BUBBLE)		PREVBU	3	2
47		MARSH OR SWAMP		PMARSH	2	2
47		SWAMP (SWAMP AREA)		PSWAMP	4	2
48		STM (TREE STUMP)		PSTM	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)			**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)			**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)			**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)			**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)			**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**
21		Electrical Junction Box, Concrete, Symbol(cell)			**2**	**2**

LGHT

MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAiCE Feature Code	Microstation Line Style or Cell	Color	Weight
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		Condiut, Nonmetallic Symbol(cell)			2	2
26		Condiut, Nonmetallic Description		0	2	2
27		Condiut, Rigid Galvanized Symbol(cell)			2	2
28		Condiut, Ridgid Galvanized Description		0	2	2
29		Ground Rod Symbol(cell)			2	2
30		Ground Rod Description		0	2	2
31		Multiconductor Cable Description			2	2
32		Lighting Arrester Symbol(cell)		0	2	2
33		Lighting Arrester Desription		0	2	2

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**	**3**	**1**
2		Text		**0**	**4**	**2**

RWTB

MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAiCE Feature Code	Microstation Line Style or Cell	Color	Weight
DESCRIPTION						
		(Future Development)				

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**	**54**	**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)				

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**		**2**
33		Proposed Retaining Wall **description & labels**		**0**		**2**
34		Proposed Median or Side Barrier Wall envelope **lines**		**0**		**2**
35		Proposed Median or Side Barrier Wall **description & labels**		**0**		**2**
36		Proposed Sound Barrier Wall Envelope **lines**		**0**		**2**
37		Proposed Sound Barrier Wall **description & labels**		**0**		**2**
40		**Existing Ground**		**2**	**2**	**1**
41		**Finished Ground** (face of wall)		**0**		**1**
42		**Finished Ground** (back of wall)		**6**		**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 stattion 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**

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**	**4**
16		Proposed bridge - **description**			**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**
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**
RETAINING WALL, PROPOSED						
27		Proposed retaining wall - **lines**		**0**	**4**	**2**
28		Proposed retaining wall - **description**		**0**	**5**	**2**

MicroStation level (63 levels per design file)	MicroStation Level Names	Description	CAiCE Feature Code	Microstation Line Style or Cell	Color	Weight
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			**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)				

ELECTRONIC DATA GUIDELINES

3-1 Supporting Files (Downloaded)

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

http://www.dot.state.ga.us/dot/preconstruction/adds/index.shtml

Cells

Cell Library Name	Cell Selector File Name	Number of Cells	Current Revsion Date for File	(Typical) Plan Scales
GDOT-DR-1001B Concrete Headwalls.cel	N/A	201	3/5/04	1
GDOT-DR-1033D Catch Basins.cel	N/A	80	3/5/04	1
GDOT-DR-1033E Catch Basins.cel	N/A	84	3/5/04	1
GDOT-DR-1033F Catch Basins.cel	N/A	88	3/5/04	1
GDOT-DR-1033G Catch Basins.cel	N/A	80	3/5/04	1
GDOT-DR-1034D Catch Basins.cel	N/A	40	3/5/04	1
GDOT-DR-1034E Catch Basins.cel	N/A	44	3/5/04	1
GDOT-DR-1034F Catch Basins.cel	N/A	48	3/5/04	1
GDOT-DR-1034G Catch Basins.cel	N/A	40	3/5/04	1
GDOT-DR-1120 Flared End Sections.cel	N/A	42	3/5/04	1
GDOT-DR-1125 Inlet-Outlet Headwalls.cel	N/A	77	3/5/04	1
GDOT-DR-2321 Reinforced Concrete Box Culverts.cel	N/A	40	3/5/04	1
GDOT-DR-2322 Reinforced Concrete Box Culverts.cel	N/A	8	3/5/04	1
GDOT-DR-2323 Reinforced Concrete Box Culverts.cel	N/A	16	3/5/04	1

Cells

Cell Library Name	Cell Selector File Name	Number of Cells	Current Revsion Date for File	(Typical) Plan Scales
GDOT-DR-2324 Reinforced Concrete Box Culverts.cel	N/A	16	3/5/04	1
GDOT-DR-2326 Reinforced Concrete Box Culverts.cel	N/A	8	3/5/04	1
GDOT-DR-2327 Reinforced Concrete Box Culverts.cel	N/A	8	3/5/04	1
GDOT-DR-9031-S Median Drop Inlets.cel	N/A	6	3/5/04	1
GDOT-DR-D3 Median Drop Inlets Special Design.cel	N/A	18	3/5/04	1
GDOT-DR-D39 Safety Slope End Sections.cel	N/A	21	3/5/04	1
GDOT-DR-D4 Ditch Drop Inlets.cel	N/A	201	3/5/04	1
GDOT-DR-D5 Safety Inlets With Grates.cel	N/A	21	3/5/04	1
GDOT-DR-D6 Safety Grates.cel	N/A	12	3/5/04	1
GDOT-DR-Labels and Notes.cel	N/A	21	3/5/04	1
GDOT-ER-Erosion-Notes.cel	N/A	8	3/5/04	1
GDOT-ER-Erosion.cel	GDOT-ER-Erosion20.csf /GDOT-ER-Erosion50.csf	94	3/5/04	20,50
GDOT-GN-General-Notes.cel	N/A	7	3/5/04	1
GDOT-GN-Landscape.cel	GDOT-GN-Landscape20.csf /GDOT-GN-Landscape50.csf	66	3/5/04	20,50

Cells

Cell Library Name	Cell Selector File Name	Number of Cells	Current Revsion Date for File	(Typical) Plan Scales
GDOT-GN-Lighting.cel	GDOT-GN-Lighting20.csf /GDOT-GN-Lighting50.csf	14	3/5/04	20,50
GDOT-GN-Quantities.cel	N/A	119	3/5/04	1
GDOT-GN-Seed.cel	N/A	0	3/5/04	
GDOT-GN-Sheets.cel	N/A	29	3/5/04	20,50
GDOT-GN-Typical Sections.cel	N/A	200	3/5/04	1
GDOT-TO-Bicycle.cel	GDOT-TO-Bicycle20.csf /GDOT-TO-Bicycle50.csf	2	3/5/04	20,50
GDOT-TO-Consigns.cel	GDOT-TO-Consigns20.csf /GDOT-TO-Consigns50.csf	70	3/5/04	20,50
GDOT-TO-ITS.cel	GDOT-TO-ITS20.csf /GDOT-TO-ITS50.csf	35	3/5/04	20,50
GDOT-TO-Msigns.cel	GDOT-TO-Msigns20.csf /GDOT-TO-Msigns50.csf	108	3/5/04	20,50
GDOT-TO-Pavement.cel	GDOT-TO-Pavement20.csf /GDOT-TO-Pavement50.csf	24	3/5/04	20,50
GDOT-TO-Railroad.cel	GDOT-TO-Railroad20.csf /GDOT-TO-Railroad50.csf	8	3/5/04	20,50
GDOT-TO-Rsigns.cel	GDOT-TO-Rsigns20.csf /GDOT-TO-Rsigns50.csf	51	3/5/04	20,50
GDOT-TO-Schoolsigns.cel	GDOT-TO-Schoolsigns20.csf /GDOT-TO-Schoolsigns50.csf	6	3/5/04	20,50
GDOT-TO-Signal.cel	GDOT-TO-Signal20.csf /GDOT-TO-Signal50.csf	124	3/5/04	20,50

Cells

Cell Library Name	Cell Selector File Name	Number of Cells	Current Revsion Date for File	(Typical) Plan Scales
GDOT-TO-Wsigns.cel	GDOT-TO-Wsigns20.csf /GDOT-TO-Wsigns50.csf	107	3/5/04	20,50
GDOT-UT-Utility.cel	GDOT-UT-Utility20.csf /GDOT-UT-Utility50.csf	149	3/5/04	20,50
Total Cell Libraries		**Total Cells**		
44.00		**2441**		