

PennDOT's gINT Library and Data Template Revision History		
PennDOT's gINT Library and Data Template Version	Date	Description of Revision
1.0.2.3 Pilot Program Version	3/10/2014	"Lehigh" County is now spelled correctly.
		Correction has been made to the drop down menu for Geological Formation input item; Xw is now shown as the abbreviation for Wissahickon. The remarks shown in the light blue portion at the bottom of the screen for the "Borehole ID" input shown on the "Boring/Test Pit" tab have been updated to include new naming conventions for borings. An NW naming convention is included for noise wall borings (i.e., NW-01), as well as an SS naming convention for sign structure borings (i.e., SS-02). (Changes included in Pub. 222.)
1.0.2.4 Pilot Program Version	3/17/2014	Corrected error in reporting of "Discontinuity Spacing 1" which is input on the "Rock Description" input tab. Now either the first, or the second discontinuity spacing, or both, will report correctly.
		For the Graphic Tables with lab test summaries for soils, a modification has been made to ensure the sample type is reflected – i.e. "S-7 to 8" will report versus the "-7 to 8" which was occasionally reporting.
		Kittanning, Clarion and Freeport formations have been added to the drop down menu for the Geological Formation input item on the "Lab Tests – Rock" Tab.
		The Graphic Table "PennDOT Lab Summary Rock Core Plans" has been updated to have a format similar to the lab test summaries for soil.
		The field type was changed from "text" to "numeric" for c', Φ , specific gravity, sulfates in water, and bacteria count on the "Lab Tests –Soils & Water" tab. Note: when the project files are converted the fields that contained text and numbers will be deleted, and must be re-entered in only numeric format. If the data entered was strictly numeric (i.e., "2.71" for specific gravity) there will be no change to the input when converting files.
		On the report Laboratory Test Summary – Electrochemical, the pH, resistivity, chloride contents, sulfate content fields have been formatted for significant figures.
1.2.1.0 Statewide Implementation Version	2/19/2015	Correction made to comment/"help" provided in lower light blue portion of the screen for PennDOT gINT Version. Please note that the release version will be automatically populated when the data template is cloned. However, the PennDOT gINT Version input will not automatically update when converting files.
		Resolved issue with the reporting of only boring, sample and test depth on Lab Summary Tables when the only lab test data is for corrosion (lab test data not reported on the selected lab test summary table).
		Revised library for Primary Constituent Type Modifier: coarse, fine to coarse, fine, medium, medium and coarse, fine and medium
		Engineer's Log & Test Pit Log & Structure Boring Log -water level symbol is not reported if it is above the ground surface elevation. Water level elevations are shown in header.
		Added general notes from Point tab to bottom of the Engineer's Log similar to Structure Boring.
		Added notes from water level tab at bottom of log for Engineer's Log and Test Pit Log ; denoted with 0 and 24 hour levels.
		Lab Summary Rock Core - will only report the "R-" if a sample exists for the "R-" in the column.
		Added "shaley" to the Structure library in Rock Description /PennDOT Rock structure Modifiers
		Added "mechanically broken rock" as a soil type to the PennDOT Soil Type Library; added graphic symbol to graphic symbol library and list "mechanically broken rock"
		Output Report for General Notes and Legend Sheet 1 and General Notes and Legend Sheet 2 changed from "The classifications of the materials have been verified" - to - "The descriptions of the materials have been verified...". The revision is also addressed in DM-4.
		Depth of sample now shown on Engineer's Log, Structure Boring Log.
		Grouting remarks added to Engineer's Log.
		N60 correction to indicate "> y" for corrected blow counts with less than a 6" sample length with blows >50.
		"Other" graphic symbol added to graphic symbol library to accommodate other natural/commonly encountered materials not in the listing.
		Acid Bearing Rock input items added; output report created.
		Added core box sample depth to core box photo reports.
		Summary of Laboratory Tests Performed - at a glance look at tests done on the project added.
Added Project Summary report to text doc tab.		
Modified input (and output reporting) to accommodate an additional rock discontinuity set.		
Hornfels graphic symbol revised to describe a metamorphic rock		
Added Inspector's Field Log to output log report listing		

<p>1.2.1.1 4/8/2015 Release</p>		<p>Resized PennDOT Structure Boring Log to resize the header and border height to allow the top border line of the report to display when exported to PDF. The unprintable area was preventing the top border line from displaying properly or some users.</p>
		<p>The data template was revised to update the units for Sulfates in Water to ppm, and to change the units for Chlorides in water to ppm. The corresponding graphic tables were updated, as needed, to reflect the same units.</p> <p>The data template was revised to show the Consolidation Index and Recompression index as dimensionless. Language has been added to indicate the parameters are to be used where laboratory results are expressed in terms of void ratio. The units for the Coefficient of Consolidation have been revised to ft²/year and the designation has been changed to cv on the data template to correspond with AASHTO. The output/graphic tables have been revised to display cv with units of ft²/year, and to display a note that indicates the parameters are to be used where laboratory results expressed in terms of void ratio.</p> <p>Added BCEI (Bottom of Cut-off Wall Elevation Inlet) and BCEO (Bottom of Cut-off Wall Elevation Outlet) to the Foundation Point of Interest drop down menu/library.</p> <p>Added "red dog fragments" and "coal fragments" to the drop down menu/library for Standard Soils Remarks</p>
<p>1.2.1.2 5/29/2015 Release</p>		<p>In order to limit offset of text on soil fence logs, the text size for N values and RQD/Recovery values was decreased. In addition, N Values and Recovery/RQD values for samples less than 1.5' have offset to the left of the N/Rec (RQD) column and callout lines have been added to the sample location for clarity. The materials description on the right side of the soil fence log has been revised to incorporate abbreviations, eliminate the composition modifier for rock descriptions, and the soil size modifier for soil descriptions. Callout lines have been added from materials descriptions (when descriptions are offset from soil layers) for clarity. [As a side note, users should follow Figure 24, SPT Refusal Criteria and Action in Publication 222 when logging data.] The soil fence log width has been increased slightly to limit text offset.</p>
		<p>The background color for various rock graphic symbols is now added as a "background fill" upon creation of the report to facilitate viewing of the graphic symbols in Microstation. This change eliminates the need for the procedure for removing background fills from soil fence logs intended for placement on soil profile plans, reduces the manipulation of soil fence components after export to Microstation and allows the detailed graphic symbols for rock to be visible in Microstation. The "Instructions for Placing Soil Fences on Plans", available on PennDOT's gINT web page have been updated to reflect the changes in procedure.</p> <p>The Engineer's Log and Structure Boring Log have been revised and now plot Avg. N60 instead of the Avg. N. Also, the graph for the SPT line no longer continues through rock layers "sandwiched" between the soil layers.</p> <p>Corrected an error in the Graphic Tables Lab Test Summary Roadway Plans, Lab Test Sum Rdway Report 8.5x11, Lab Sum Structure Report 8.5 x 11, and Lab Sum Structure Plans, which were not reporting the %Fines as entered in the input. That is, the graphic table would fail to display the input value. The error has been corrected to report the %Fines when input. As before, the program will calculate and report the %Fines if both the %Silt and %Clay are input.</p> <p>The data template has been updated to include additional language to address input of multiple lab tests with differing results for a soil layer.</p>
<p>1.2.2.0 9/2/2015 Release</p>		<p>The data template has been revised to correct the fields with a day/time formation. Previously a dd/mm/yyyy convention was incorrectly displayed in the header; data should be entered in the format should be mm/dd/yyyy hh:mm. If the date was entered in the dd/mm/yyyy format errors could result. Depending on the data entered, the format would update to the mm/dd/yyyy format, or manipulate an attempt at entering 23/3/2015 where March 23 was intended to 3/23/2015 to fit mm/dd/yyyy format. The date/time fields for the following input items have been updated to reflect the correct mm/dd/yyyy hh:min or mm/dd/yyyy time format: Boring/Test Pit Tab: Start Date/Time, Completion Date and Time, Completion of Grouting Date, Hammer Efficiency Calibration Date, Water Levels Tab: Date and Time, Grouting Log Tab: Start Pump Time. Users will need to convert their gINT project files to include the changes in the update(s) to the data template and display the proper header for the date/time fields.</p>
		<p>Input for the Rock Composition Modifier and Rock Type 2 on the Rock Description Tab is now limited to the library list/drop-down menu.</p> <p>Updated Output "Logs" Tab "Fence Report w/Elevation" to include tick marks to indicate top of sample, include grey background with rock graphics, to properly display REC (RQD) - was showing RQD/Rec.-, and to bold the lithology length.</p> <p>Updated the Output "Fence" Tab to remove the "Multiple Fence Report" and create fence reports (plotted by elevation) with various combinations geotechnical information placed adjacent to soil fence plot. A legend for the various fence tab reports is provided.</p> <p>Added "Prepared By" to the reports on the Output "Fence" tab, "Graphic Tables" tab, and on the Output "Logs" core box photo logs as appropriate. Previously business partner name did not appear on the reports.</p> <p>If no inspector name is input for the "Inspector Name" field on the Boring/Test Pit tab for a boring, "No Inspector on Record" will appear report on the Engineer's Log, Inspector's Field Log, and Engineer's Test Pit Log.</p>

<p>1.2.2.1 2/26/2016 Release</p>	<p>Test Pit Log report was incorrectly showing the "Completion Date and Time" from the Boring Test Pit tab instead of the "Log Checked and Sealed Date" in the output for the "Log Checked and Sealed Date" in the header of the Test Pit Log. The Test Pit Log report has been updated to correctly report the "Log Checked and Sealed Date" on the Test Pit Log.</p> <p>The data template has been updated to indicate "Test Pit" in lieu of "Borehole ID" for the "Borehole ID" column that previously appeared on the Test Pit Details tab.</p> <p>The data template "help" has been updated for "Coordinate System" input on the Project tab to specify the coordinate system be the same as for the survey method used.</p> <p>The spelling of Schuylkill county has been corrected in the Project Tab "County" drop down menu.</p> <p>Drop down menu for "Rig Type" has been updated to include various rig types. The references to hammer have been removed (as the information will be captured in "hammer" field).</p> <p>Structure Boring Log Report header will now report "Drilling Method - No Record", "Hammer - No Record", and/or "Rig Type - No Record" as necessary when the fields are not completed to ensure pertinent data is entered.</p> <p>The Structure Boring Log Report has been updated to report "NTS" for any Foundation Point of Interest that occurs above the top of boring or below the bottom of boring to show that it is "not to scale". The general notes reports on the Graphic Tables tab have been updated to include the "NTS" abbreviation.</p> <p>An error occurred in reporting the Discontinuity 2 Dip 1 value on the Rock Description tab. If there was a value in both Discontinuity 2 Dip 1 and Discontinuity 2 Dip 2 only the Discontinuity 2 Dip 2 value would report. The error has been corrected and the descriptors now report correctly.</p> <p>Repeating of text from the bottom of one page to the top of the next page for the Engineer's Log, Structure Boring Log, and Test Pit Log will now only occur for the material description and AASHTO/USCS columns. It was previously occurring for sample, n values and other information. Depending on the location of the soil layer and sample, the text for the sample could be printed twice on the same page in an odd looking configuration.</p> <p>The Electrochemical Table on the Output Graphic Table tab has been updated to remove reporting of excess/unwanted data where the "yes"/"no" fields were input as "no". The ABR Lab Test Summary table has been updated to remove similar repetition of data.</p> <p>Updated the "Coring Method" drop down list to include Triple Tube (HQ, HX, NX, NQ) and Triple Tube Wireline (HQ, HX, NX, NQ), and remove reference to "split inner". A future update to Publication 222 will remove the requirement for Chief Geotechnical approval of triple tube; the drop down list has been revised in anticipation of that change.</p> <p>The "help" portion of the data template for "Borehole ID" has been updated to specify new abbreviations be used for boring type to eliminate potential confusion with using an "S" designation for both boring and sample. A future update to Publication 222 will also reflect the boring naming conventions.</p> <p>If the fields for "Driller", "Drilling Company", "Inspector" and "Inspector Certification #" are left blank, the Engineer's Log header will indicate that the field has no record in bold red text.</p> <p>Updated the "PennDOT Legend for Soil Profile Plans" on the Output Graphic Tables tab to include the abbreviations for the rock type composition modifiers. Previously, the abbreviations appeared on the fence logs, but were not addressed in the legend.</p> <p>Updated the "Depositional Environment" drop down menu to remove the capitalization of "fill".</p> <p>Corrected scaling issue on the Output Logs Tab PennDOT Fence Log Solid Representation and Hollow Representation reports.</p> <p>Lists for Certified Inspectors, Inspector Certification #, and Prequalified Drillers have been updated to coincide with current Publication 222 (2/19/2016) list available on PennDOT's gINT web page.</p> <p>The data template has been updated to revise the header for "Actual Pile Tip Elevation" to "Actual Pile Tip/Deep Fnd. Elev." to avoid confusion for entering actual bottom of pile or deep foundation elevations.</p> <p>The data template has been updated to reflect the input of "13" for pocket penetrometer and torvane readings that exceed the scale of the device. Input of >0 to 4.5 will be as before for the pocket penetrometer, and >0 to 2.5 for the torvane. The Engineer's Log, Inspector's Log, Test Pit Log and Structure Boring Log will now report ">4.5" or ">2.5", as appropriate, when "13" is entered on the Sample Tab for the pocket penetrometer or torvane input to indicate that the reading exceeds the scale.</p> <p>The drop-down menu for the Sample Material/Type on the Sample tab has been revised to indicate "A" may be defined as augered/unsampled/advanced.</p> <p>The data template has been updated for the Lab Tests-Soils and Water tab for the pH Soils, Soil Sulfates, Soil Resistivity, and Soil Chlorides to specify the correct AASHTO Standard and to indicate "In the event that the test result is reported as the non-detect limit (e.g. <50) and the exact test result is not known, enter only the numeric portion of the result. For example, if <50, enter 50" to address entering data for test results displaying the non-detect limit.</p>
<p>1.2.2.2 9/01/2016 Release</p>	<p>Graphic symbols have been updated to address the condition where a primary constituent does not exist / non-primary constituent condition; to properly export bolded clay and organic symbols to Microstation.</p> <p>The Soil Description tab has been modified to allow a soil description where no primary constituent exists. A soil fraction descriptor appears before Soil 1; Soil 1 and Soil 2 are no longer restricted to be joined by "and". Drop down menus for the soil fraction descriptors have been modified accordingly. Output/Reports (Log & Fence Tab) will now address a soil description such as Some Silt, Some Clay, Some Sand.</p> <p>The Water Level Elevation field has been removed from the Water Levels input tab. Water level elevations will only be contained in the reports. This is to avoid having to adjust the Water Levels tab data when the surface elevation is altered.</p>

<p>1.2.2.2 9/01/2016 Release (continued)</p>		<p>Reading Events on the Water Levels tab no longer needs to be entered in a particular order. The 0-hr. and 24-hr. elevations and notes will report as before; any non 0-hr. and 24-hr. elevations and notes will be shown at the end of various reports with a denotation in the report header alerting the user of the additional water level readings and elevations.</p>
		<p>Samples/Sample Numbers that have lab testing information are now highlighted to facilitate understanding of where lab testing has been performed.</p>
		<p>The PennDOT Lab Electrochemical Report did not indicate "no" when a corrosive condition did not occur for steel or concrete; the report did provide criteria causing corrosive conditions. It has been revised to report "no" when a non-corrosive condition exists for steel or concrete. Report has also been corrected to indicate "yes" when ph or sulfate information was corrosive for concrete.</p>
		<p>Sample tab Blows 1-4 input is limited to the drop-down list of whole numbers or weight of hammer or weight of rod to eliminate errors in improperly entering "50/0.3" for sample blows. Whole numbers can still be entered manually. Note that "50/0.2" type values will be calculated in the report based upon the blow count entered and sample length entered.</p>
		<p>The drop-down list for Graphic Symbol on the Soils Description tab now reflects only graphic symbols applicable for soil. Likewise, the drop-down list for Graphic Symbol on the Rock Description tab displays only the graphic symbols applicable for rock.</p>
		<p>The drop-down list for Discontinuity Type 1 and Discontinuity Type 2 on the Rock Description Tab has been expanded. Users will now be limited to the discontinuity types in the list. The Standard Rock Remarks on the Rock Description tab has been expanded to include notes related to rock discontinuity.</p>
		<p>The Graphic Table "PennDOT Lab Summary Rock Core Plans" has been updated to display the tons per square foot conversion when the input for the rock strength is very low. Previously, if the conversion of the rock strength entered in psi was less than 1 tsf, a value was not reported.</p>