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CHAPTER 26

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* Indicates 11 x 17 sheet; all others are 8½ x 11.

GENERAL PROCEDURES

Chapter 26 of this manual establishes the practices for the completion of boring logs for a plan assembly.

These sheets were generated using a MDL program; however, the Materials Division has adopted gINT software for the creation of boring logs.

In the past, fence diagrams (See File No. 26.03-2) have only been included when requested. Fence diagrams will be included with the boring logs for all projects beginning with the July 2011 advertisement.

NOTE:

Due to various restrictions on placing files in this manual onto the Internet, portions of the drawings shown do not necessarily reflect the correct line weights, line types, fonts, arrowheads, etc. Wherever discrepancies occur, the written text shall take precedence over any of the drawn views.

General:

The *GEOXT*, *GINT*, *Microstation*, and *GEOPAK Integrator* software and manual may be downloaded from the external website at the following link:

<http://www.virginiadot.org/business/materials-download-docs.asp>

After running the gINT software, the standard penetration test (SPT) composite logs will typically need to be converted from DXF files to DGN format. The macro provided will convert all line weights and fonts to conform to VDOT standards. However, some editing in the MicroStation file may be required to fix errors created by the conversion process.

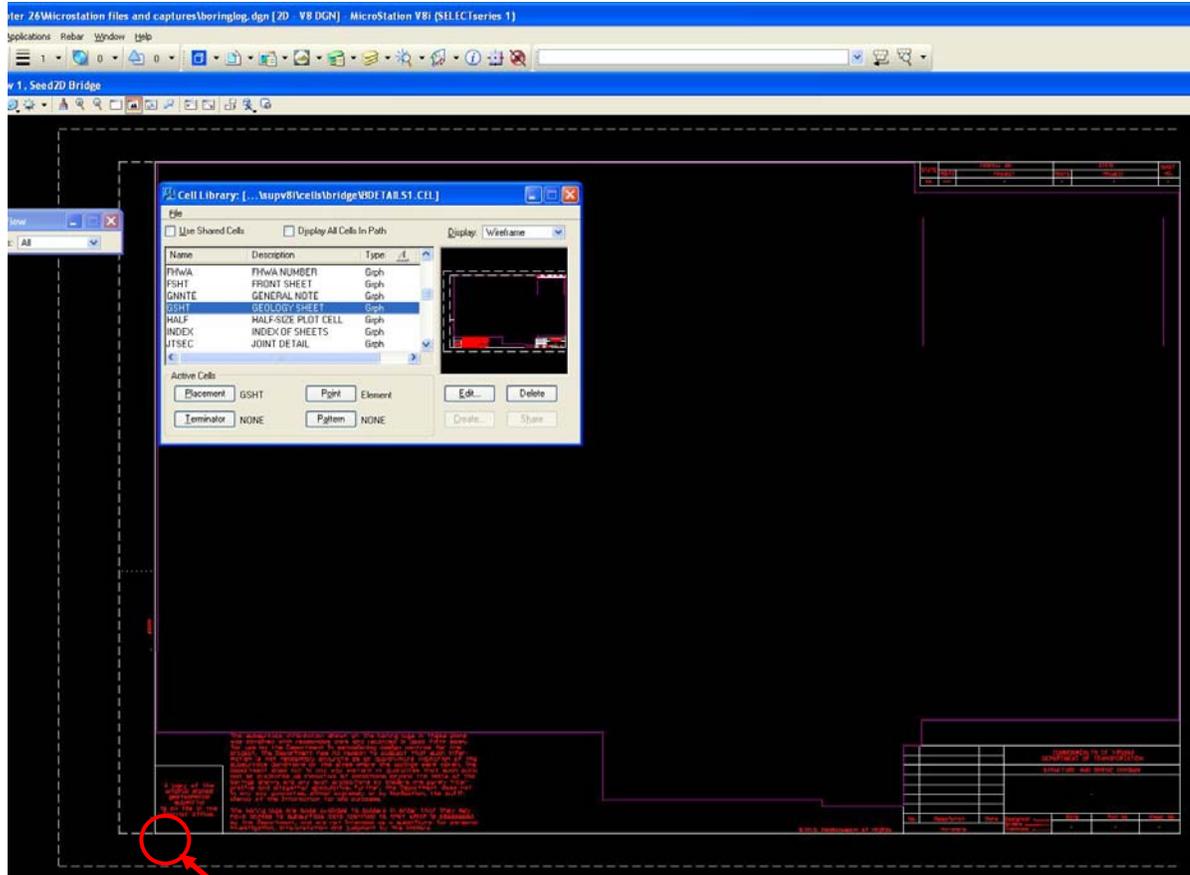
The macro is also available to convert Fence Diagrams.

General:

The following instructions are to be followed when creating bridge plan sheets using the Materials Division Engineering Geology sheet to be included within the final Bridge Plan Assembly after notification from the Materials section that the converted DGN files are available in FALCON.

It should be noted that at this time this is the only drawing where reference files may be used.

1. Within MicroStation, insert the **GSHT** cell from *bdetails1.cel*, and type "XY=0,0" into the key-in box to indicate cell insertion point. If the key-in box is not activated, select Utilities – Key-in to access command window.

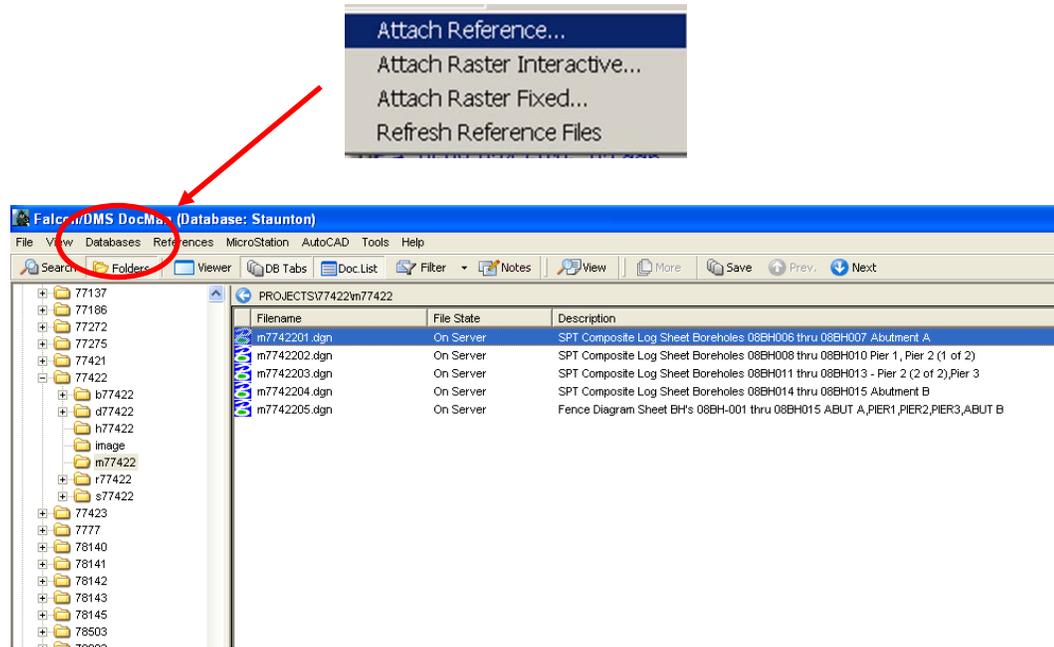


XY=0,0 (Insertion point)

XY=0,0

2. The Materials subdirectory in Falcon should contain the Materials Geology sheets as shown below.

From the top bar select MicroStation then Attach Reference. This will prompt the Reference Attachment Settings box to appear.



BORING LOGS CONVERSION PROCESS

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FILE NO. 26.02-2

Reference Attachment Settings for ...1421test11.dgn

File Name: ...Geology Sheet - GINT\1421test11.dgn
 Full Path: ...Geology Sheet - GINT\1421test11.dgn
 Model: Default

Logical Name:
 Description: Global Origin aligned with Master File

Orientation:

View	Description
Coincident	Aligned with Master File
Coincident - World	Global Origin aligned with Master File
<input checked="" type="checkbox"/> Standard Views	
Saved Views (none)	
Named Fences (none)	

Detail Scale: CUSTOM

Scale (Master:Ref): 1.062500 : 1.000000

Named Group:
 Revision:
 Level:

Nested Attachments: Copy Attachments Depth: 1
 Display Overrides: Allow
 New Level Display: Never
 Global LineStyle Scale: Master

Synchronize with Saved View

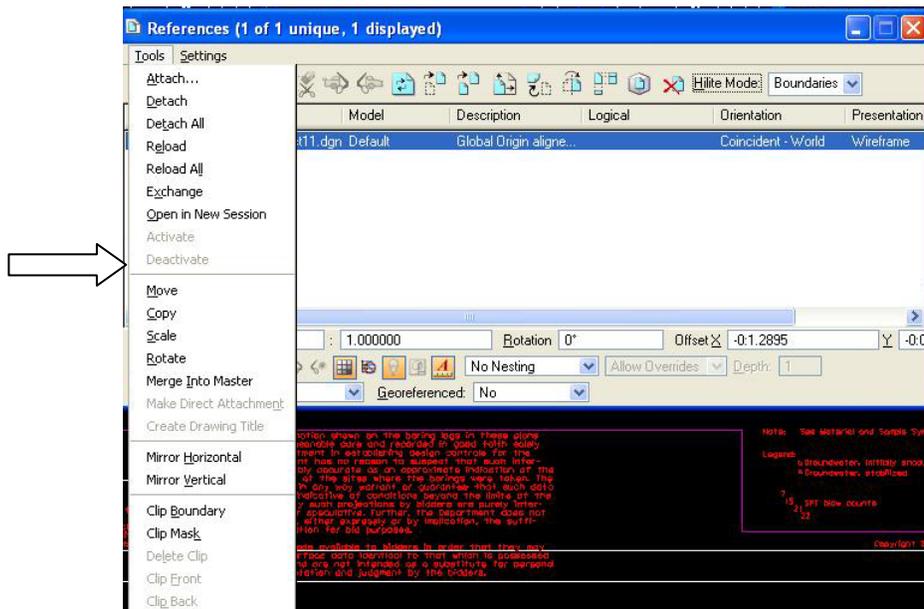
Toggles:

Drawing Title
 Create
 Name: Drawing

OK Cancel

Set Scale (Master Ref), key-in scale **1.0625:1.000** then select OK.

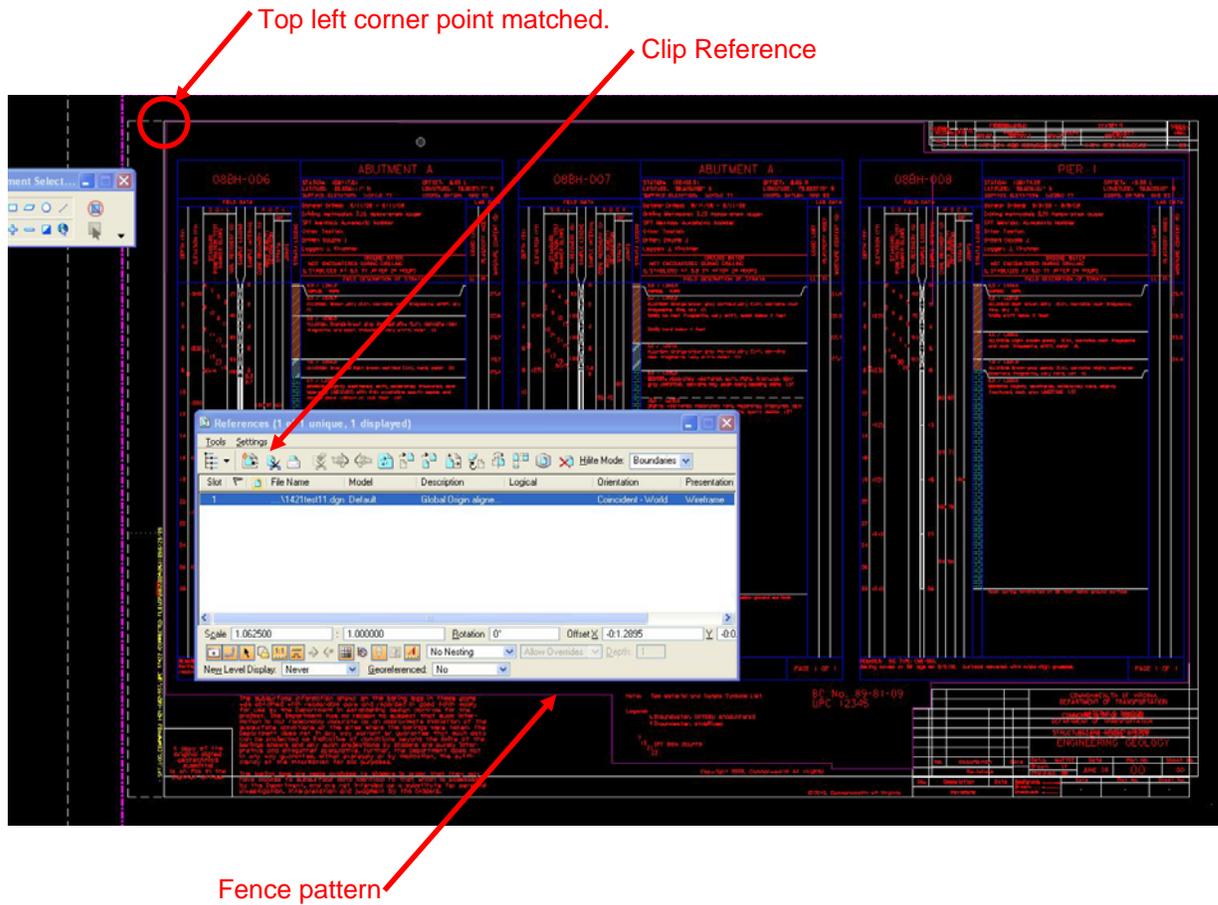
3. Move reference file to match the upper left hand corner of the GSHT cell with the same point in the reference file. To access, the reference fill command window if not already opened select *File – Reference*.



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4. From the Main Toolbar, place fence by using element fence type and clip the reference file. After completion, to hide the fence pattern, turn off construction lines.

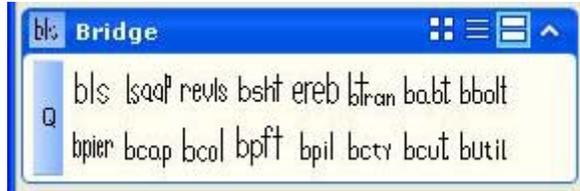


BORING LOGS CONVERSION PROCESS

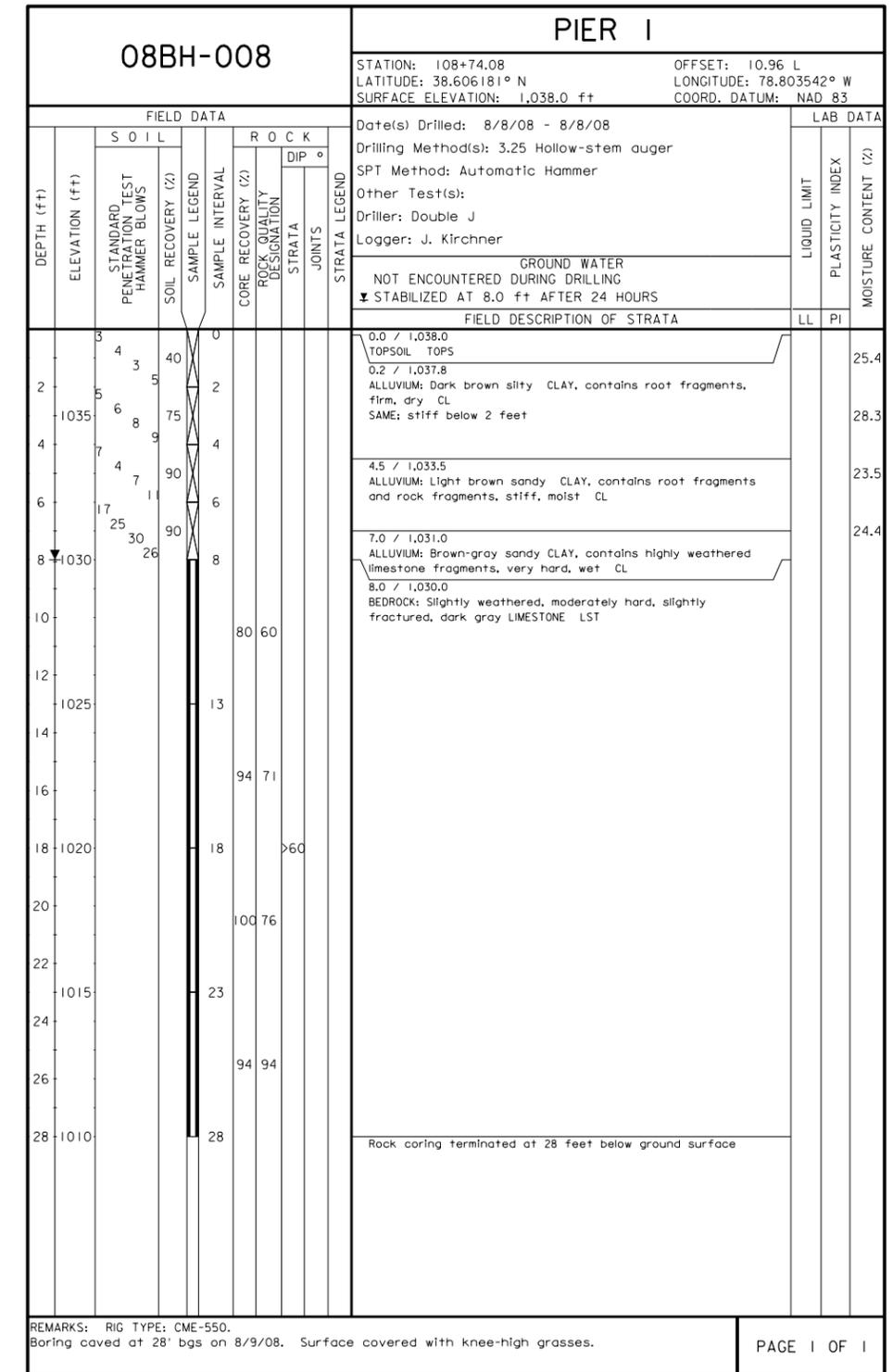
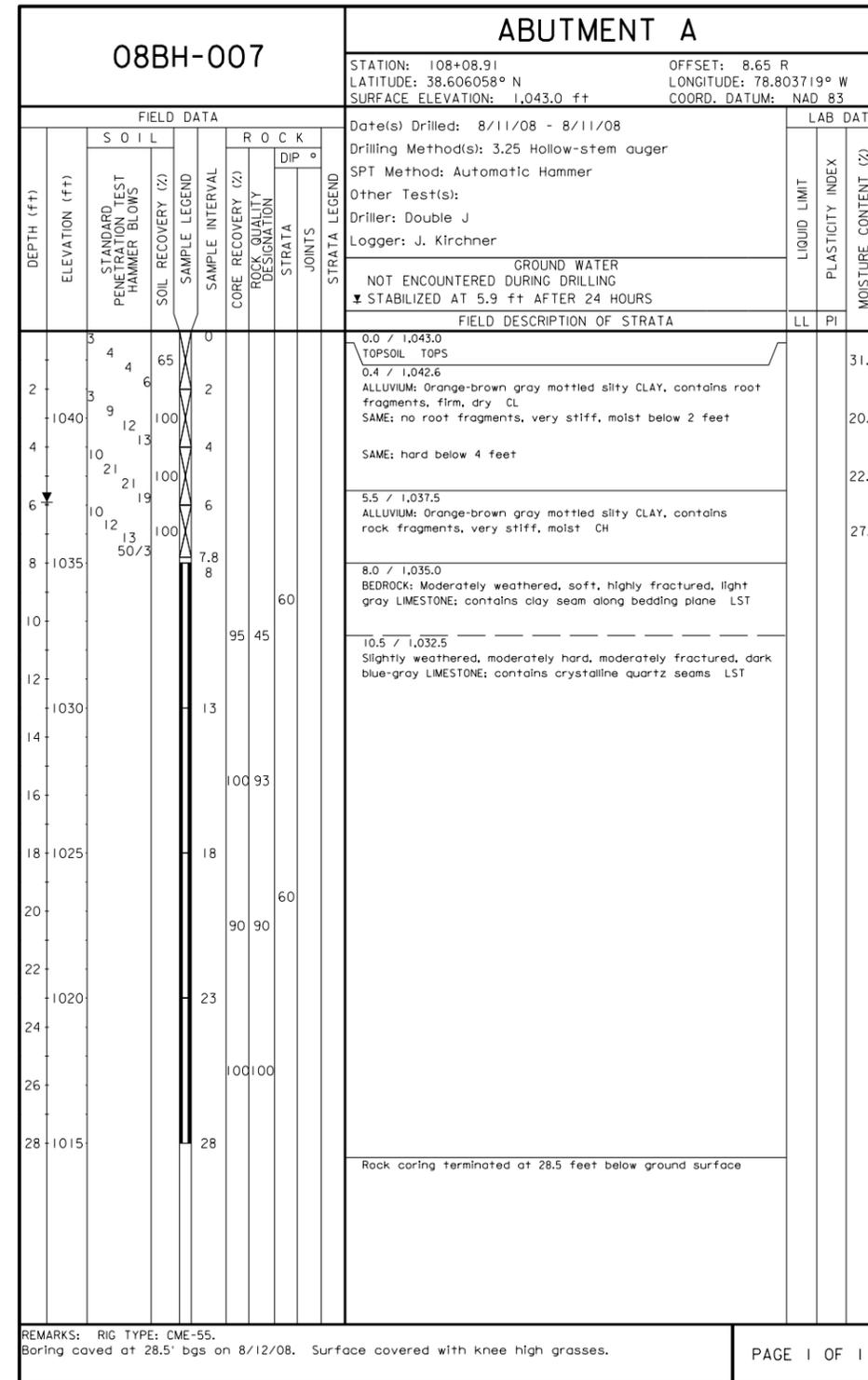
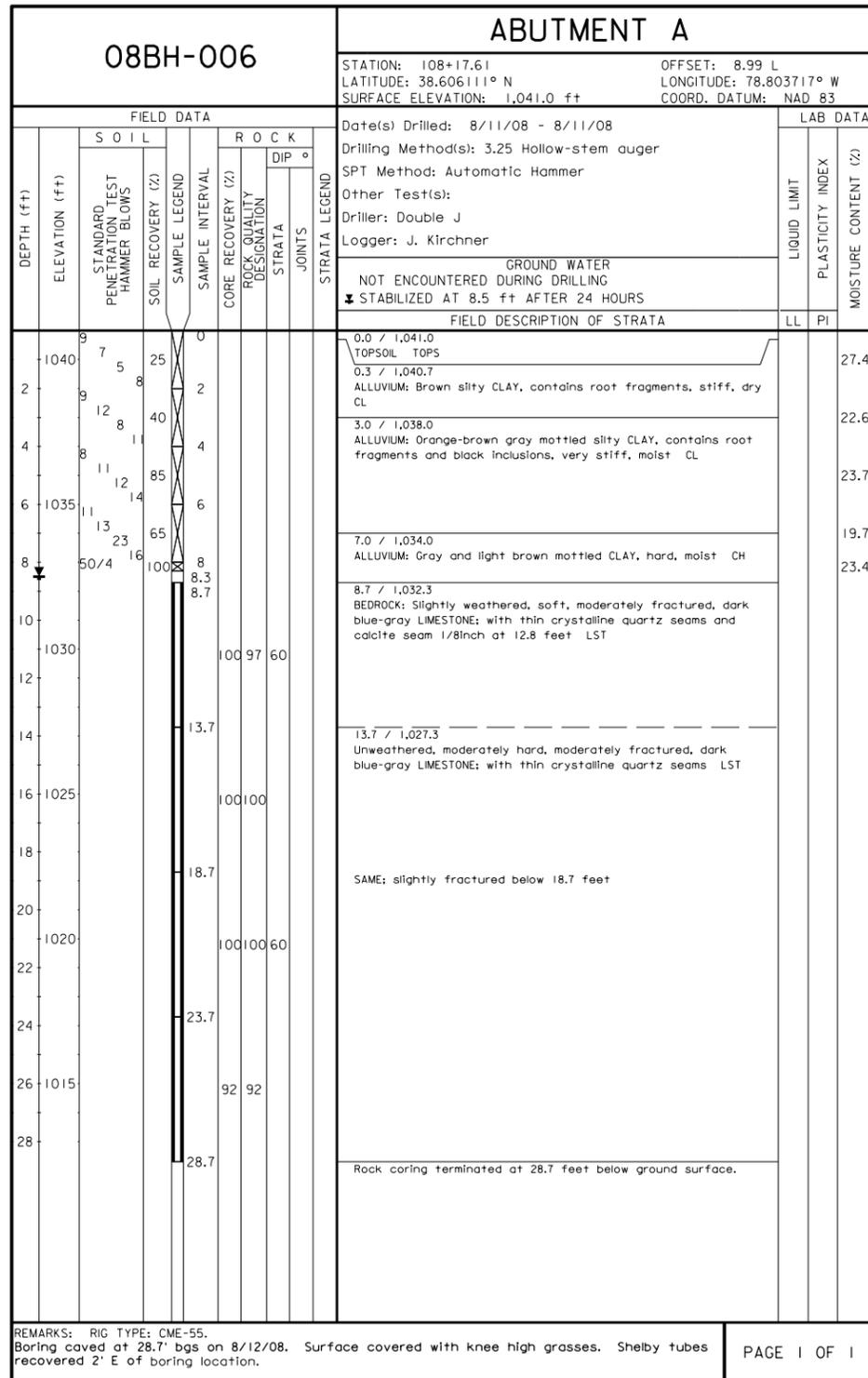
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FILE NO. 26.02-5

4. Fill in Project Data.

Initialize the bsht mdl application using the **VDOT BRIDGE MDL** task bar (shown below) to fill in the project data. Select Existing and Interior sheet type. Fill in Project Block, Title Block and Description as shown below then click execute to run mdl.

A screenshot of a software dialog box titled 'Sheet' with version 'Ver. 5.0.8i'. The dialog is divided into several sections: 'Button Settings' with 'Sheet type' set to 'Interior' and 'New/Existing' set to 'Existing'; 'Project Block' with fields for 'Proj. no.', 'Route', 'L & D no.', 'UPC no.', 'Fed Aid no.', 'NBIS no.', and 'Fed Oversight Code' (set to 'N/A'); 'Title Block' with fields for 'Plan no.', 'Sheet no.', 'Date', 'Drawn by', 'Design by', 'Supervised by', 'Coordinated by', 'Checked by', 'Plans By', 'CADD no.', and 'FHWA/Scour no.'; and 'Title Description' with 'Title description no. lines' set to '3' and three text input fields for 'Desc. 1', 'Desc. 2', and 'Desc. 3'. At the bottom are 'EXECUTE' and 'CANCEL' buttons.

- Title Description
1. Project Number
 2. COUNTY (upper case)
 3. ENGINEERING GEOLOGY (upper case)



REMARKS: RIG TYPE: CME-55. Boring caved at 28.7' bgs on 8/12/08. Surface covered with knee high grasses. Shelby tubes recovered 2' E of boring location.

REMARKS: RIG TYPE: CME-55. Boring caved at 28.5' bgs on 8/12/08. Surface covered with knee high grasses.

REMARKS: RIG TYPE: CME-550. Boring caved at 28' bgs on 8/9/08. Surface covered with knee-high grasses.

The subsurface information shown on the boring logs in these plans was obtained with reasonable care and recorded in good faith solely for use by the Department in establishing design controls for the project. The Department has no reason to suspect that such information is not reasonably accurate as an approximate indication of the subsurface conditions at the sites where the borings were taken. The Department does not in any way warrant or guarantee that such data can be projected as indicative of conditions beyond the limits of the borings shown; and any such projections by bidders are purely interpretive and altogether speculative. Further, the Department does not in any way guarantee, either expressly or by implication, the sufficiency of the information for bid purposes.

The boring logs are made available to bidders in order that they may have access to subsurface data identical to that which is possessed by the Department, and are not intended as a substitute for personal investigation, interpretation and judgment by the bidders.

Note: See Material and Sample Symbols List
 Legend:
 ▾ Groundwater, initially encountered
 ▿ Groundwater, stabilized

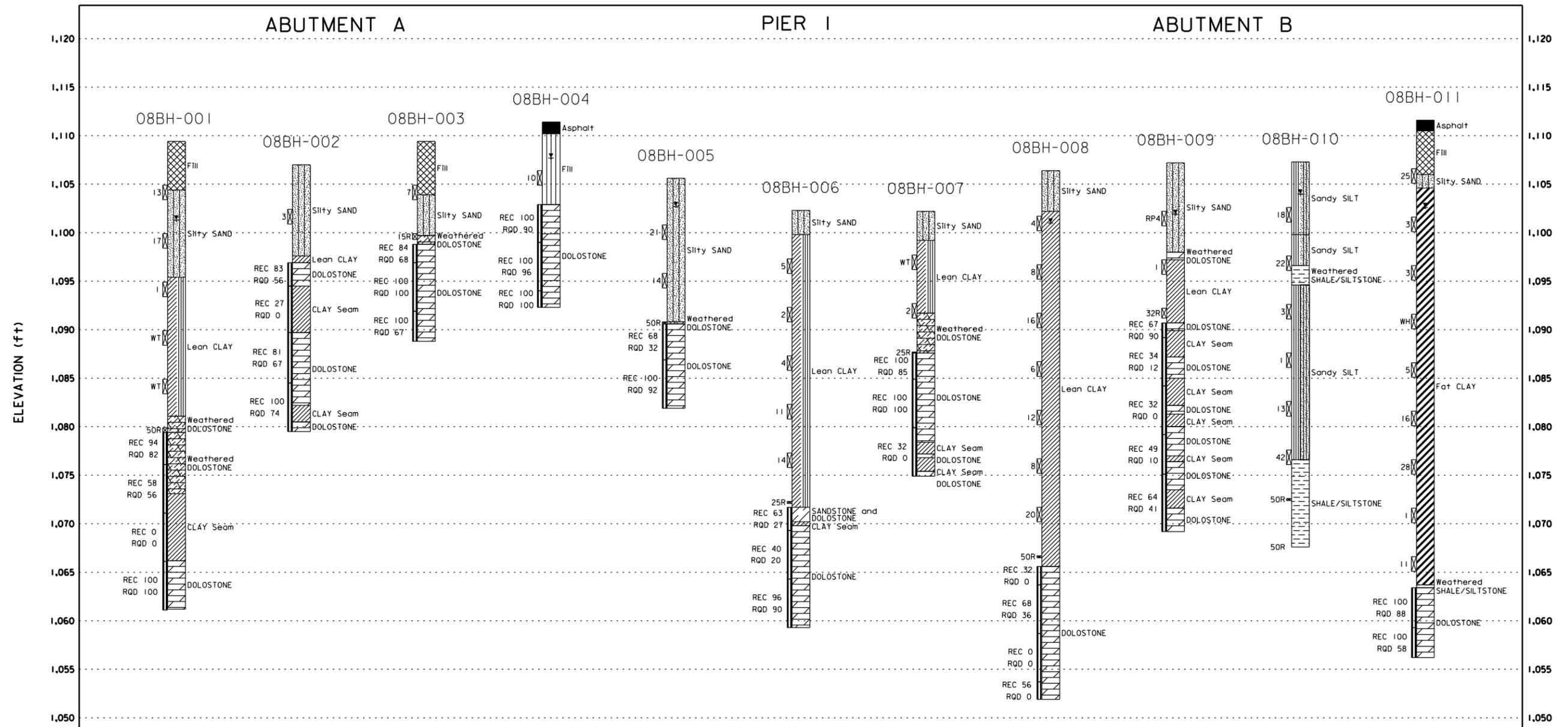
BC No. 89-81-09
 UPC 12345

BORING LOG SHEET
SAMPLE SHEET FOR SPT COMPOSITE LOG

A copy of the original signed geotechnical submittal is on file in the District Office.

COMMONWEALTH OF VIRGINIA DEPARTMENT OF TRANSPORTATION			
STRUCTURE AND BRIDGE DIVISION			
1421-082-337 ROCKINGHAM COUNTY ENGINEERING GEOLOGY			
No.	Description	Date	Planned
Designed: ANB		Date	Planned
Drawn: MTK		Sept. 2010	999
Checked: JED			
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ROUTE 738 OVER GLADE CREEK - BOTETOURT CO.



Notes: See borehole logs for complete data.
See Material and Sample Symbols List.

BC# 08-52-02
UPC# 17993

- Legend:
- ☞ Groundwater, initially encountered
 - ☞ Groundwater, stabilized
 - REC - Recovery
 - RQD - Rock Quality Designation
 - 12 - SPT N-value
 - 50R - SPT Blow Count to Refusal
 - WT - Weight of Tooling SPT Advance
 - RP4 - Rock Prejudiced SPT Blow Count
 - WH - Weight of Hammer SPT Advance

The subsurface information shown on the boring logs in these plans was obtained with reasonable care and recorded in good faith solely for use by the Department in establishing design controls for the project. The Department has no reason to suspect that such information is not reasonably accurate as an approximate indication of the subsurface conditions at the sites where the borings were taken. The Department does not in any way warrant or guarantee that such data can be projected as indicative of conditions beyond the limits of the borings shown; and any such projections by bidders are purely interpretive and altogether speculative. Further, the Department does not in any way guarantee, either expressly or by implication, the sufficiency of the information for bid purposes.

The boring logs are made available to bidders in order that they may have access to subsurface data identical to that which is possessed by the Department, and are not intended as a substitute for personal investigation, interpretation and judgment by the bidders.

BORING LOG SHEET SAMPLE SHEET FOR FENCE DIAGRAM

A copy of the original signed geotechnical submittal is on file in the District Office.

COMMONWEALTH OF VIRGINIA DEPARTMENT OF TRANSPORTATION			
STRUCTURE AND BRIDGE DIVISION			
0738-011-244, B665 BOTETOURT COUNTY ENGINEERING GEOLOGY			
No.	Description	Date	Planned
Designed: ANB		Date: Sept. 2010	Plan: 999
Drawn: MTK			
Checked: TED			
VOL. V - PART 2 DATE: 14Jun2010 SHEET 2 of 2 FILE NO. 26.03-2			