



## Memorandum

<b>To:</b>	Amy Kim Project Manager Washington State Dept. Enterprise Services
<b>From:</b>	Carolyn Moore, Archaeologist Kelly Yeates, ICF Project Manager Tait Elder, Principle Archaeologist
<b>Date:</b>	March 29, 2022
<b>Re:</b>	<b>WA State - Legislative Campus Modernization Archaeology Services</b> Newhouse Building Geotechnical Monitoring <b>(Revised)</b>

## Project Description

The Washington State Department of Enterprise Services is proposing replacement of the Irving R. Newhouse building, a two-story building northeast of the intersection of 15<sup>th</sup> Avenue SW and Water Street SW, on the Washington State Campus in Olympia, Washington. GeoEngineers, Inc. contracted ICF to provide archaeological monitoring as part of their due diligence during the auguring of geotechnical exploratory probes.

## Study Area

The study area is located on a large lot on the Washington State Legislative campus, in Township 18 North, Range 2 West, Section 23. The study area is roughly 0.6 acre and is surrounding the existing Irving R. Newhouse building. Two additional two-story residential buildings that have been repurposed into the Ayer and Carlyon Press Houses are on the same block and adjacent to the survey area. There are water and gas utilities in the area, but none were interfered during the excavation process of the geotechnical borings.

The study area is situated on top of a glacially deposited landform. Between the 1890s and 1940s, the legislative campus was extensively graded, removing the upper layer of soil and filling lower elevation areas with fill material. This is expected to have altered the project area's stratigraphic profile and lowered the potential of encountering intact cultural materials near the surface and up to the unknown depth of previous disturbance.

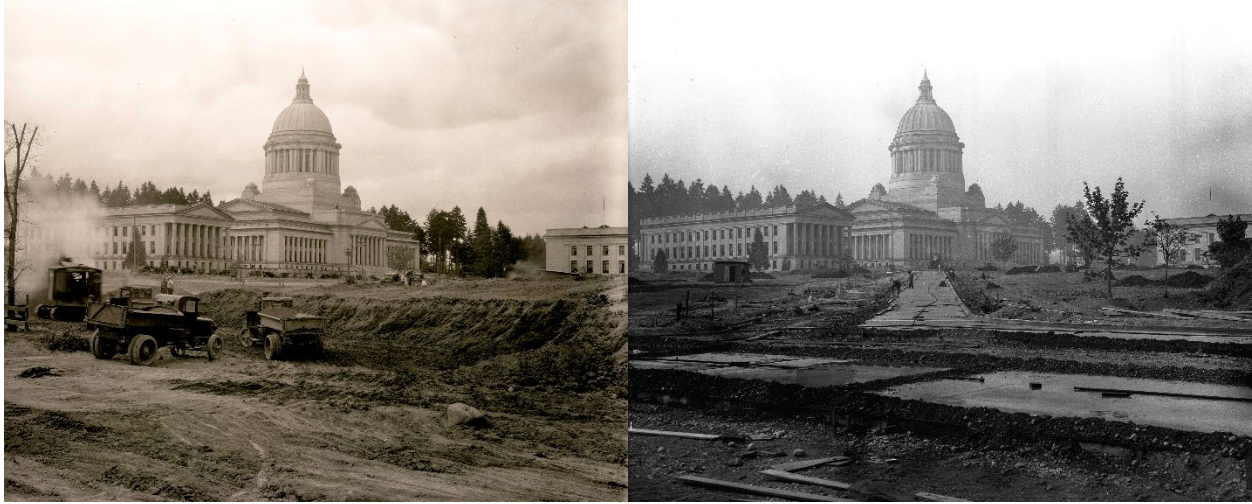
**LCM Archaeological Monitoring, Newhouse Building Borings (Revised)**  
March 29, 2022



*Photo 1- Removal of original Capitol building foundation, 1923. On file at:  
<https://www.sos.wa.gov/legacy/legbuilding/construction.aspx>*



*Photo 2- Installation of new Capitol Building foundation, 1923. On file at:  
<https://www.sos.wa.gov/legacy/legbuilding/construction.aspx>*



*Photo 3- Grading of Campus, 1930. Photographer: Vibert Jeffers, in Susan Parish Photograph Collection (1889-1990).*

## Geotechnical Bore Monitoring

Four geotechnical boreholes were excavated using a truck-mounted drilling machine with a hollow-core auger, between December 6<sup>th</sup> and 9<sup>th</sup>, 2021. During geotechnical borehole monitoring by Shannon & Wilson, the ICF archaeologist carefully inspected borehole side-cast soils. The geotechnical field staff collected soil samples from the borings and the ICF archaeologist would inspect the soils collected for sampling. Soil color, composition and origin were recorded in coordination with the interpretation of the geotechnical operator. Each soil sample was collected by the geotechnical field staff after photographs were taken (see Field Photos below). Boring logs provided by Shannon & Wilson are attached.

All bore excavations were monitored to the base of excavation. B-1, -2, and -4a were excavated to a depth of 100 feet below ground surface (fbgs), while B-3 was completed to 155 fbgs. Geotechnical field staff collected 18" soil samples in 4.5 foot increments. The ICF archaeological monitor observed sandy fill materials near the surface and up to about 4.6 fbgs. The soil abruptly transitioned to material deposited during glacial recession to the maximum depths explored. These soil attributes are consistent with the glacial outwash observed throughout the Legislative Campus, as described in the Washington Department of Natural Resources online geologic information portal (<https://geologyportal.dnr.wa.gov/2d-view#wigm?0,0,0,0>). No buried terrestrial surfaces or archaeological deposits were identified.

An ICF archaeologist also provided cultural resources monitoring during the upper 20' feet of mud rotary drilling for a heating system connectivity test, on March 22, 2022. Although visibility was very limited due to the nature of the drilling method, similar sediments as were observed during geotechnical boring were encountered in the drilling output and monitoring of the drilling was ended once glacial deposits were confirmed. No buried terrestrial surfaces or archaeological deposits were identified.

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Because of the relative homogeneity of the observed soils and absence of buried surfaces, it appears that the pre-development ground surface has been graded. This is consistent with the historically documented widespread landscape modifications that occurred across the Capitol Campus in the early twentieth century (Photos 1, 2, and 3).

### **Conclusions**

Based on the observed stratigraphy, the graded fill material layer observed near the surface abruptly transitions to glacial materials, with no pre-development ground surface extant at the interface between these two deposits. Both of these observed strata have low potential to contain archaeological materials. The potential of encountering materials is low enough that we do not recommend further archaeological monitoring in the Newhouse Building project area. If future work in the area yields Inadvertent Discoveries, the IDP provided should be followed.

## Photos



*Figure 1- Sediment overview from B-1.*



*Figure 2- Sediment overview from B-1.*



*Figure 3- Sediments observed from B-2.*



*Figure 4- Sediments observed from B-2.*

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Figure 5- Sediments observed from B-2.



Figure 6- Sediments observed from B-3.



Figure 7- Sediments observed from B-3.



Figure 8- Sediments observed from B-3.

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Figure 9- Sediments observed from B-4a



Figure 10- Sediments observed from B-4a.



Figure 11- Sediments observed at the bottom of B-4a.



Figure 12-Boring location B-1 overview looking South

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*Figure 13- Boring location B-2 overview looking southeast*



*Figure 14- Boring location B-4a overview looking west*








*Figure 15- Mud Rotary Drilling operation looking south*

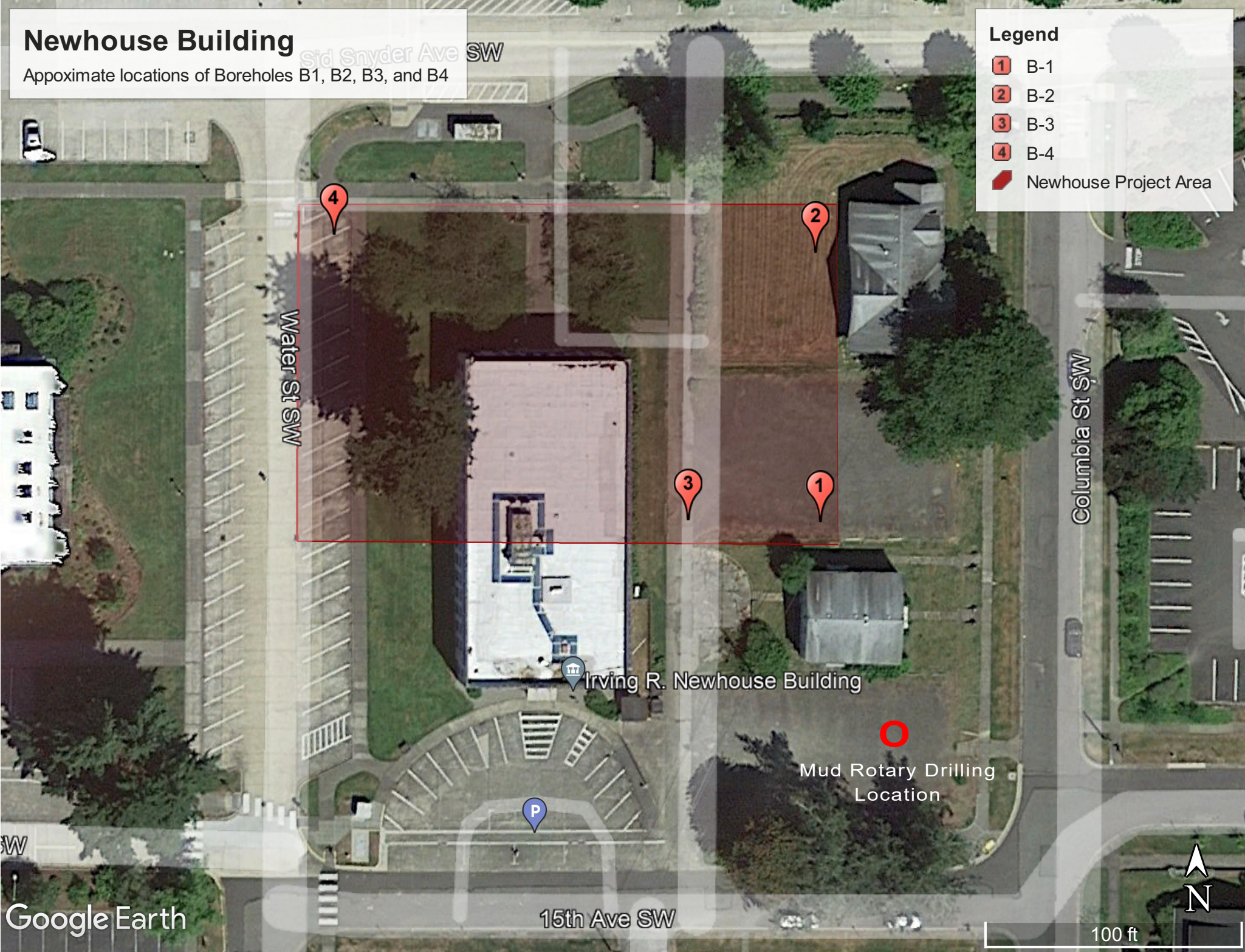


# Newhouse Building

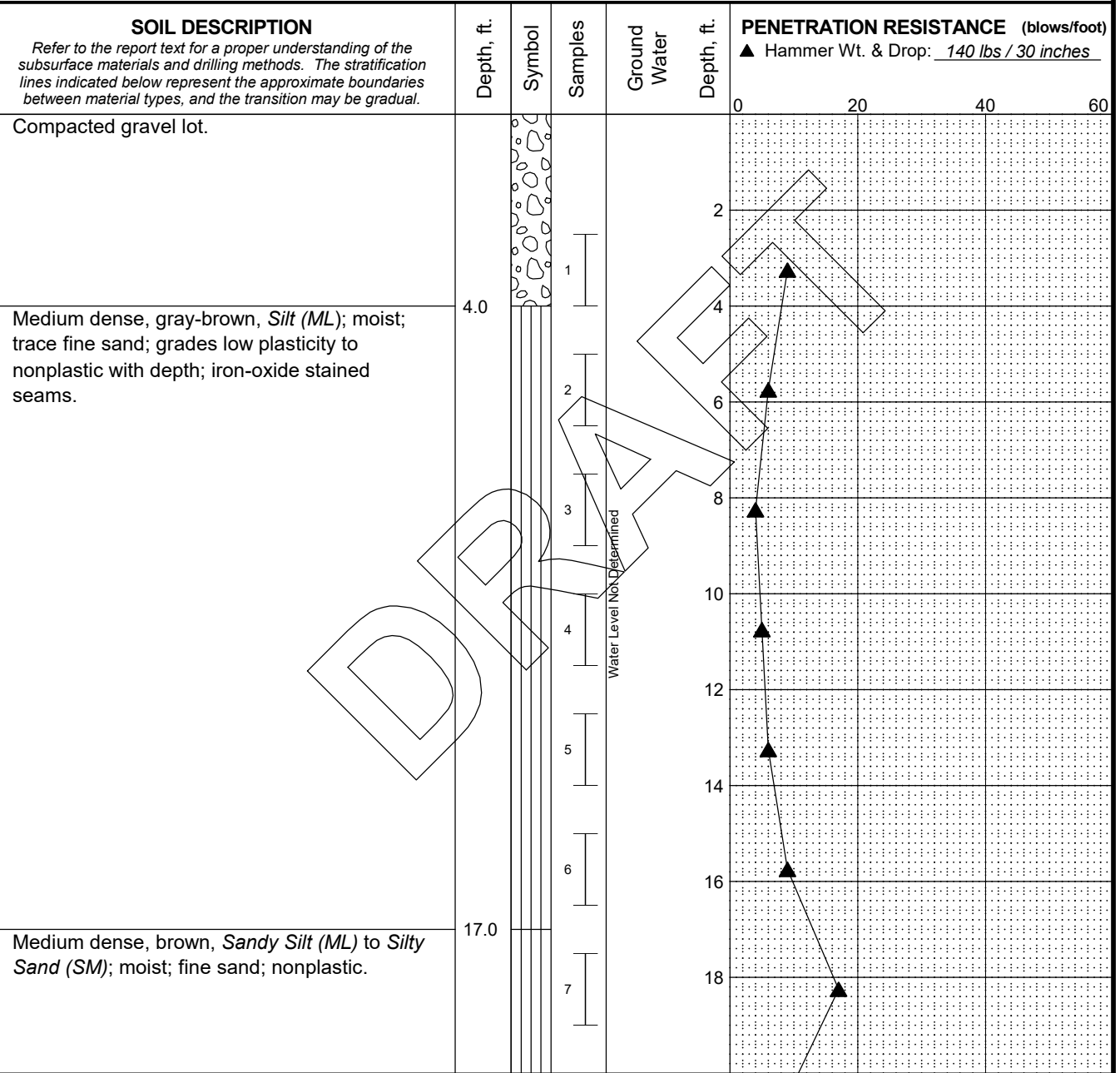
Approximate locations of Boreholes B1, B2, B3, and B4

## Legend

-  B-1
-  B-2
-  B-3
-  B-4
-  Newhouse Project Area



Total Depth: 101.5 ft.    Northing: ~ 629,648 ft.    Drilling Method: Mud Rotary    Hole Diam.: 6 in.  
 Top Elevation: ~ 121 ft.    Easting: ~ 1,041,475 ft.    Drilling Company: Holt Services    Rod Diam.: NWJ  
 Vert. Datum: \_\_\_\_\_    Station: ~    Drill Rig Equipment: CME 85 Truck    Hammer Type: Automatic  
 Horiz. Datum: \_\_\_\_\_    Offset: ~    Other Comments: \_\_\_\_\_



CONTINUED NEXT SHEET

**LEGEND**

- \* Sample Not Recovered
- 2.0" O.D. Split Spoon Sample

- % Fines (<0.075mm)
- % Water Content

**NOTES**

1. Refer to KEY for explanation of symbols, codes, abbreviations and definitions.
2. Groundwater level, if indicated above, is for the date specified and may vary.
3. USCS designation is based on visual-manual classification and selected lab testing.
4. The hole location was measured from existing site features and should be considered approximate.

Legislative Campus Modernization  
 Newhouse Building  
 Olympia, Washington

**LOG OF BORING B-1**

December 2021

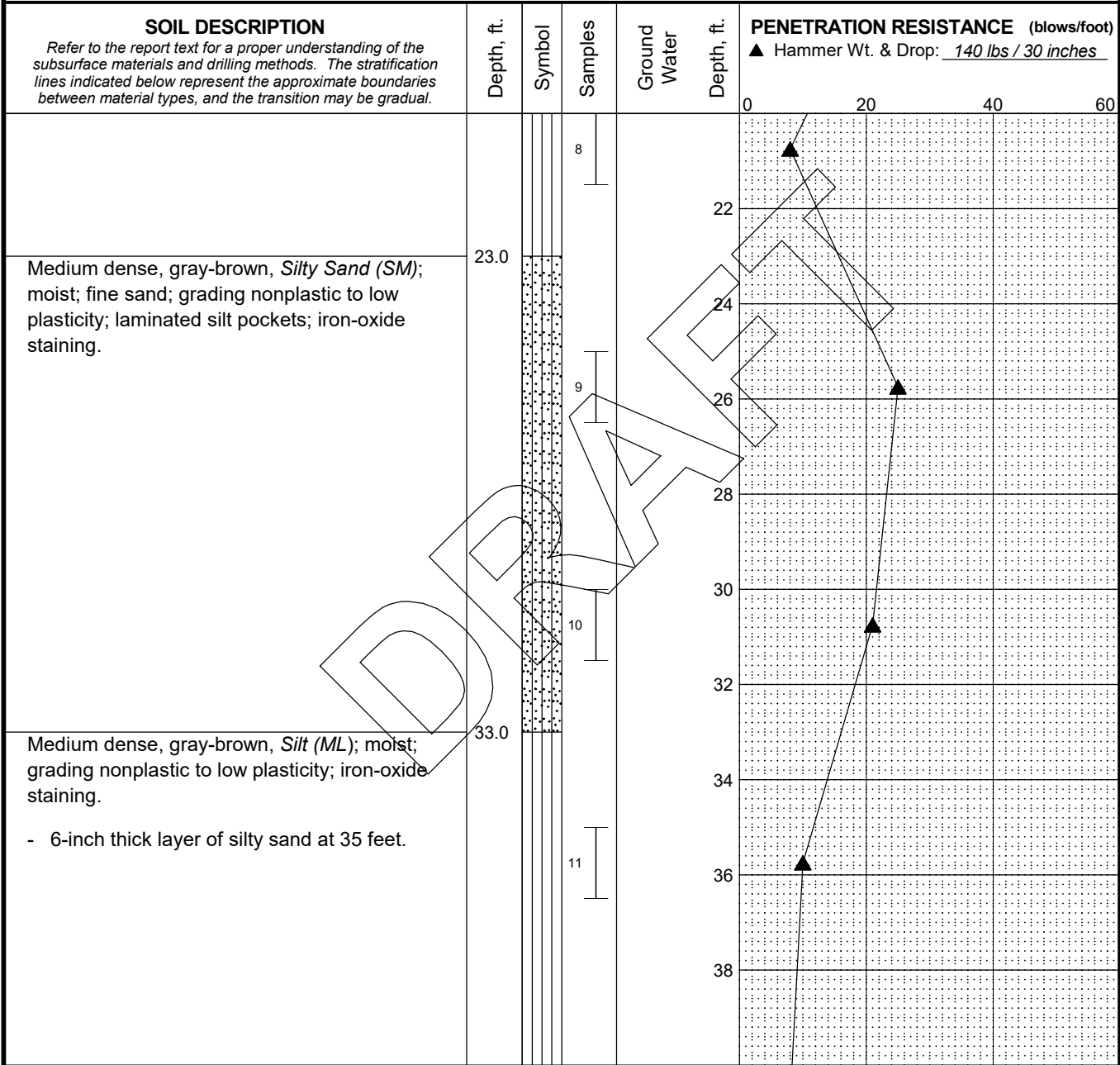
105564-001

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**FIG.**  
 Sheet 1 of 6

Log: SVD    Rev: SAW    Typ: LKN    MASTER LOG E. 105564.GPJ SHAN\_WIL\_GDT 12/15/21

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**LOG OF BORING B-1**

December 2021

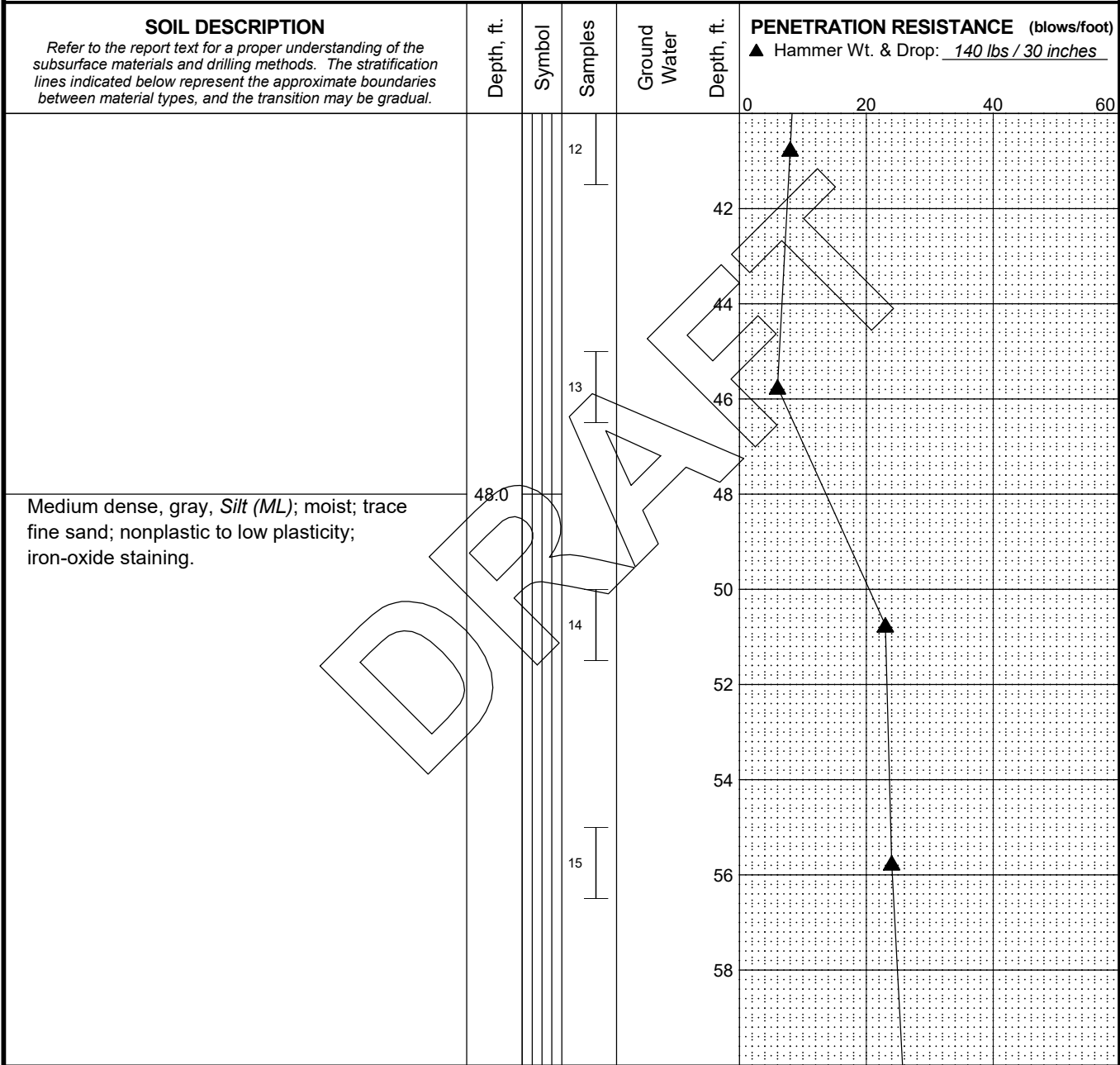
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**FIG.**  
Sheet 2 of 6

MASTER LOG E. 105564.GPJ SHAN WIL.GDT 12/15/21 Log: SVD Rev: SAW Typ: LKN

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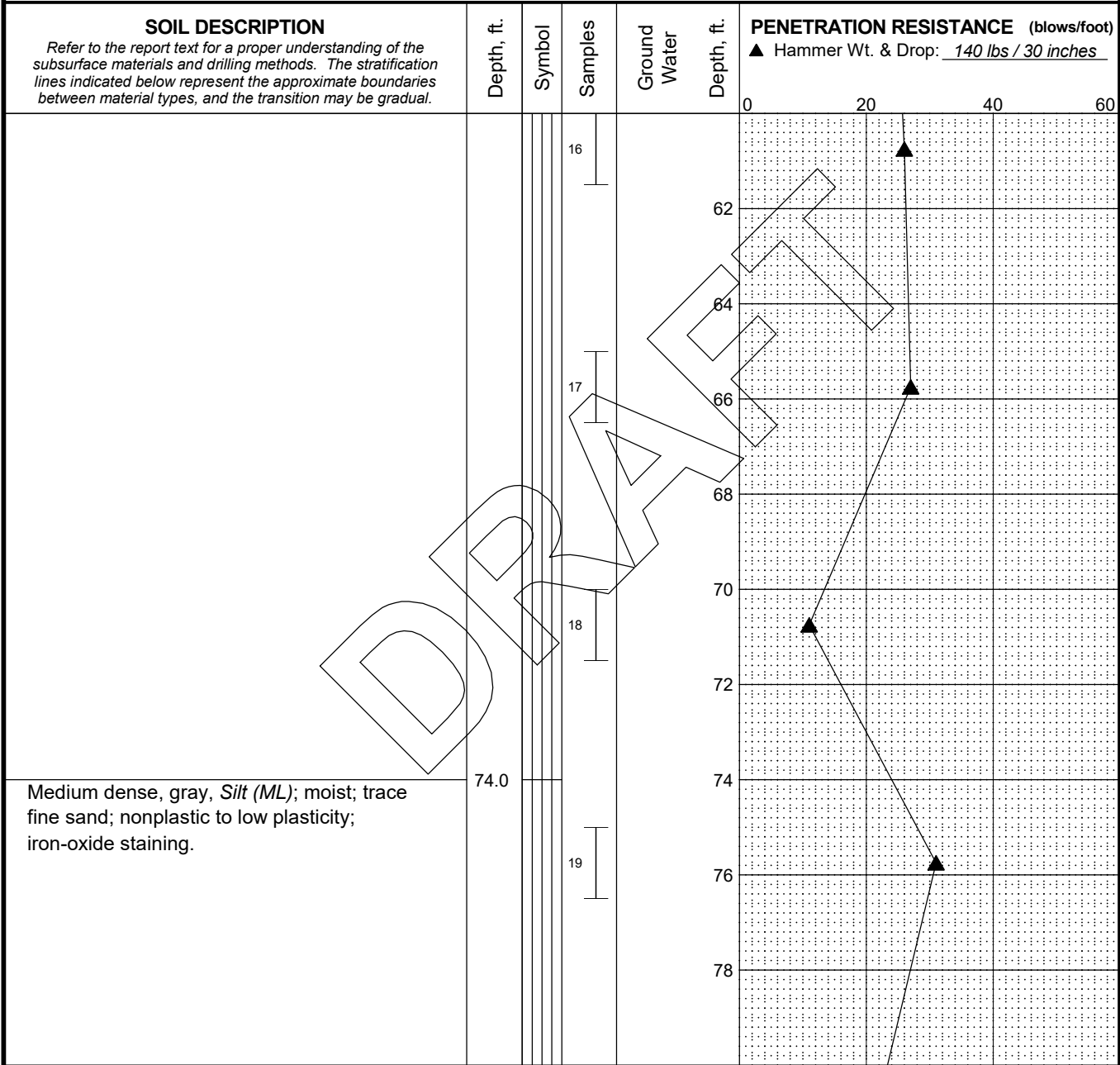
**LOG OF BORING B-1**

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**SHANNON & WILSON, INC.** **FIG.**  
 Geotechnical and Environmental Consultants Sheet 3 of 6

MASTER LOG E\_105564.GPJ SHAN\_WIL\_GDT 12/15/21 Log: SVD Rev: SAW Typ: LKN

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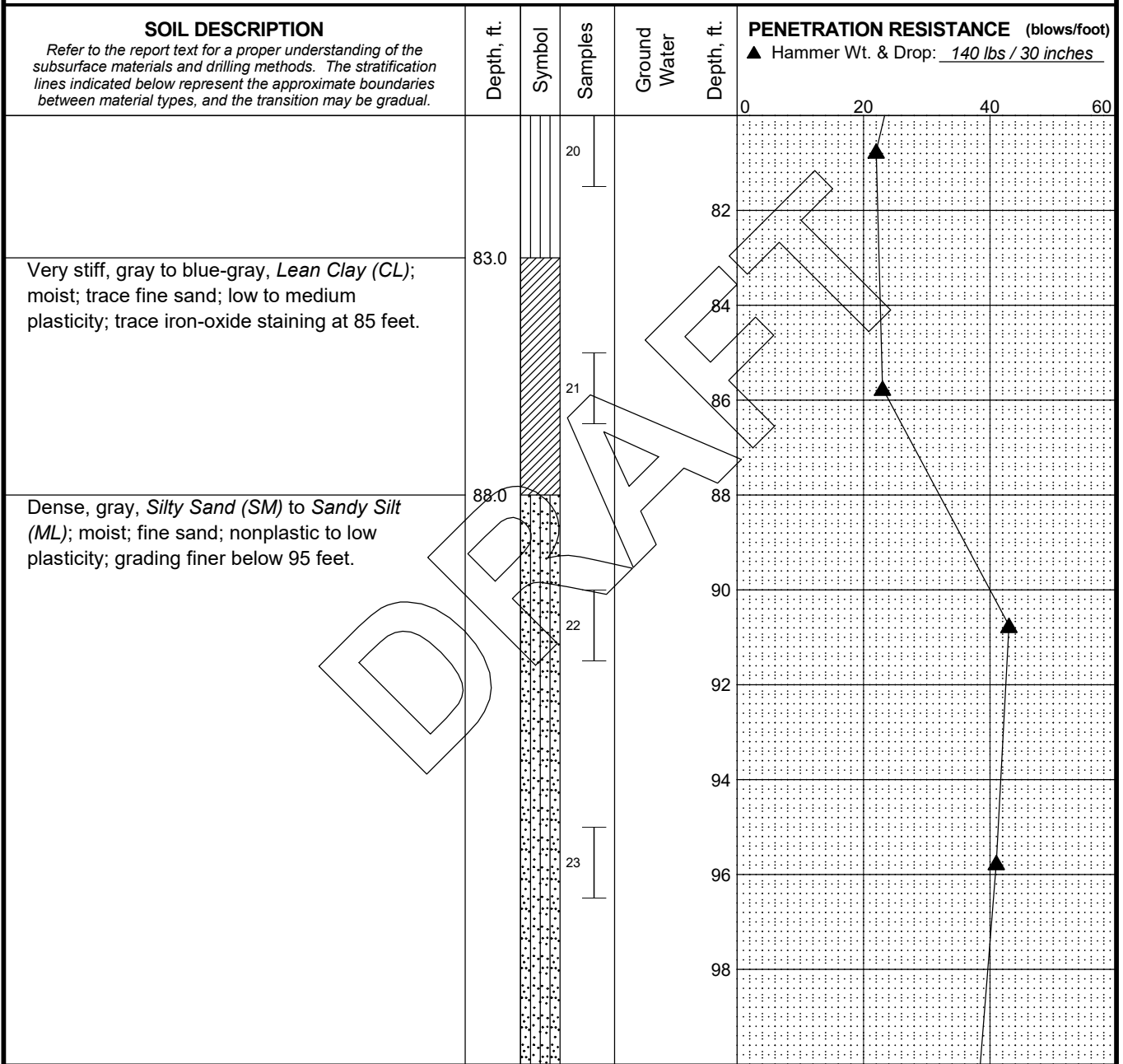
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<h2>LOG OF BORING B-1</h2>	
December 2021	105564-001
<b>SHANNON &amp; WILSON, INC.</b> Geotechnical and Environmental Consultants	<b>FIG.</b> Sheet 4 of 6

MASTER LOG E. 105564.GPJ SHAN WIL.GDT 12/15/21 Log: SVD Rev: SAW Typ: LKN

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**LOG OF BORING B-1**

December 2021

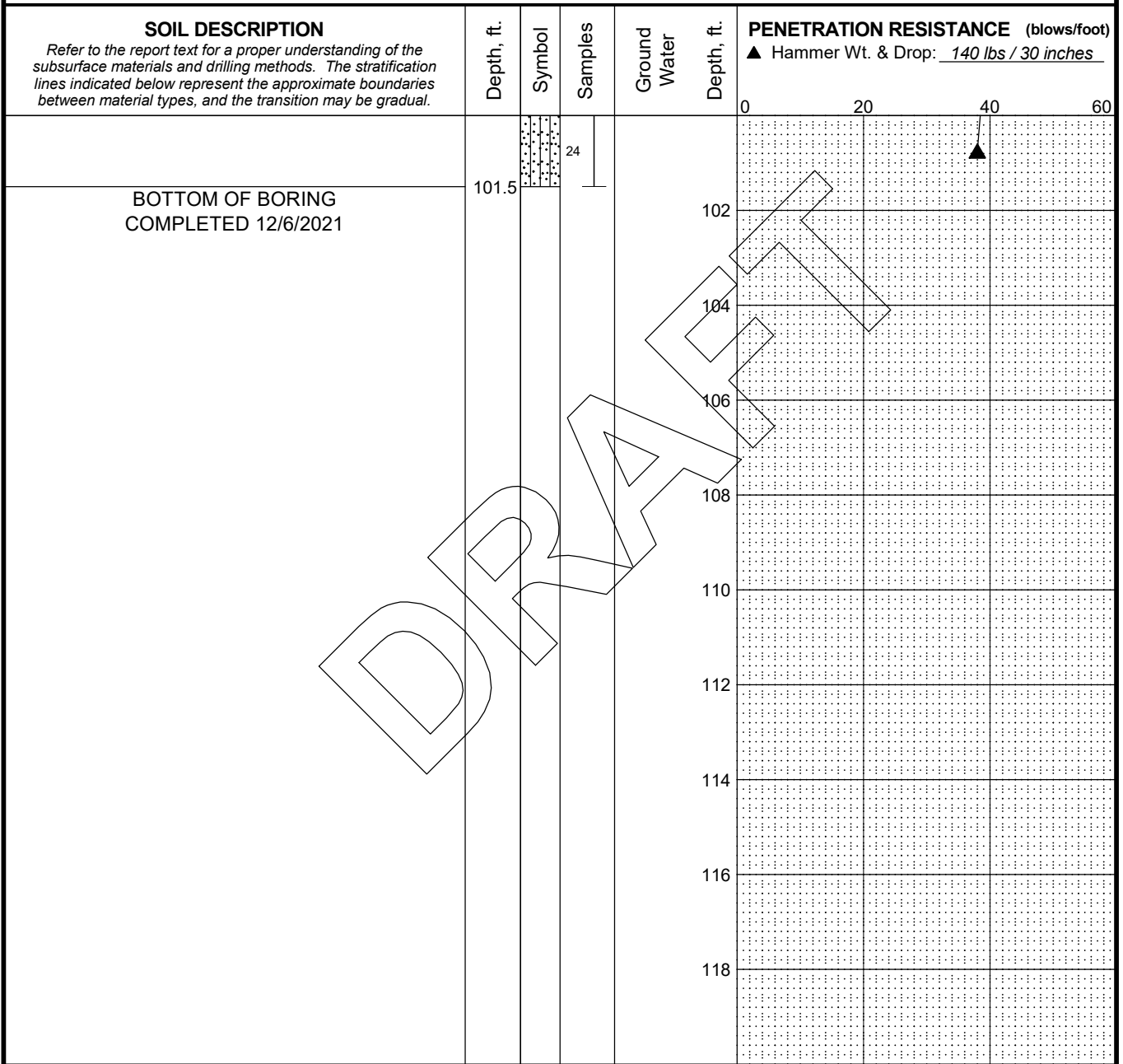
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**FIG.**  
Sheet 5 of 6

Log: SVD Rev: SAW Typ: LKN  
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**LOG OF BORING B-1**

December 2021

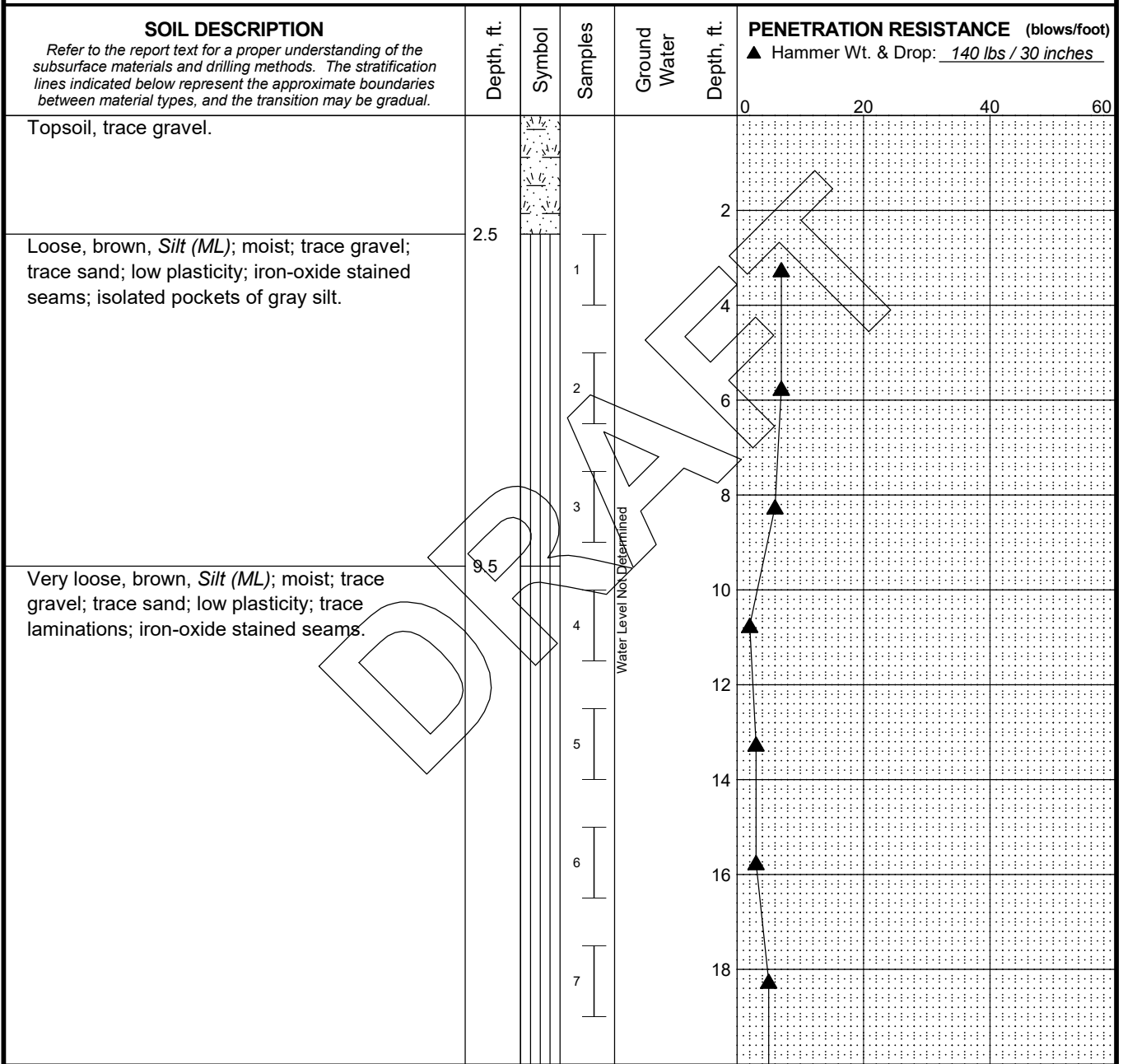
105564-001

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**FIG.**  
 Sheet 6 of 6

Log: SVD Rev: SAW Typ: LKN  
 MASTER LOG E: 105564.GPJ SHAN WIL.GDT 12/15/21

Total Depth: 101.5 ft.    Northing: ~ 629,768 ft.    Drilling Method: Mud Rotary    Hole Diam.: 6 in.  
 Top Elevation: ~ 121 ft.    Easting: ~ 1,041,457 ft.    Drilling Company: Holt Services    Rod Diam.: NWJ  
 Vert. Datum: \_\_\_\_\_    Station: ~    Drill Rig Equipment: CME 85 Truck    Hammer Type: Automatic  
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CONTINUED NEXT SHEET  
**LEGEND**

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**LOG OF BORING B-2**

December 2021

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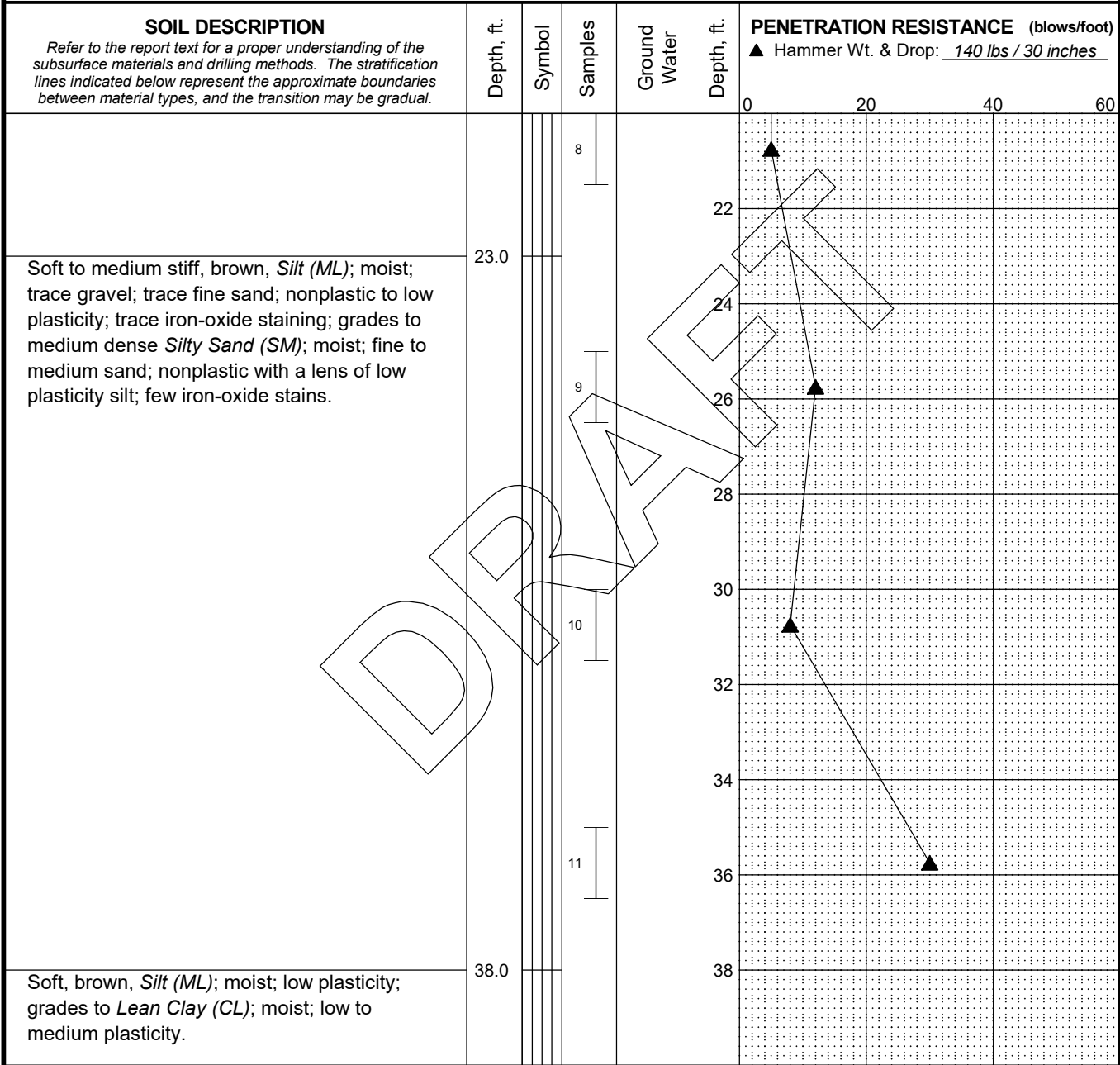
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**FIG.**  
 Sheet 1 of 6

Log: SYD Rev: SAW Typ: LKN  
 MASTER LOG E\_105564.GPJ SHAN\_WIL\_GDT 12/15/21



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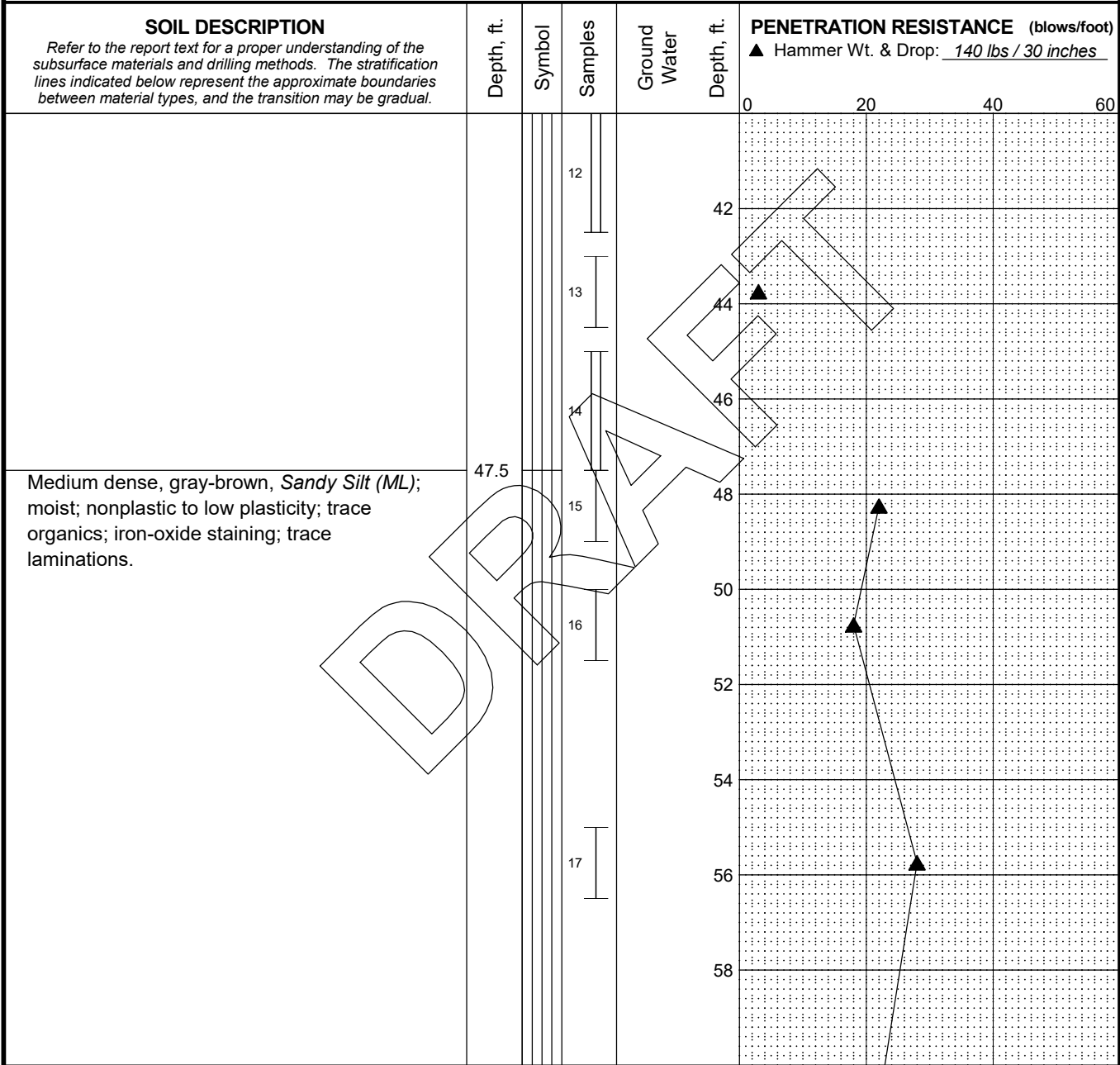
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Legislative Campus Modernization Newhouse Building Olympia, Washington	
<b>LOG OF BORING B-2</b>	
December 2021	105564-001
<b>SHANNON &amp; WILSON, INC.</b> Geotechnical and Environmental Consultants	<b>FIG.</b> Sheet 2 of 6

Log: SYD Rev: SAW Typ: LKN  
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Newhouse Building  
Olympia, Washington

**LOG OF BORING B-2**

December 2021

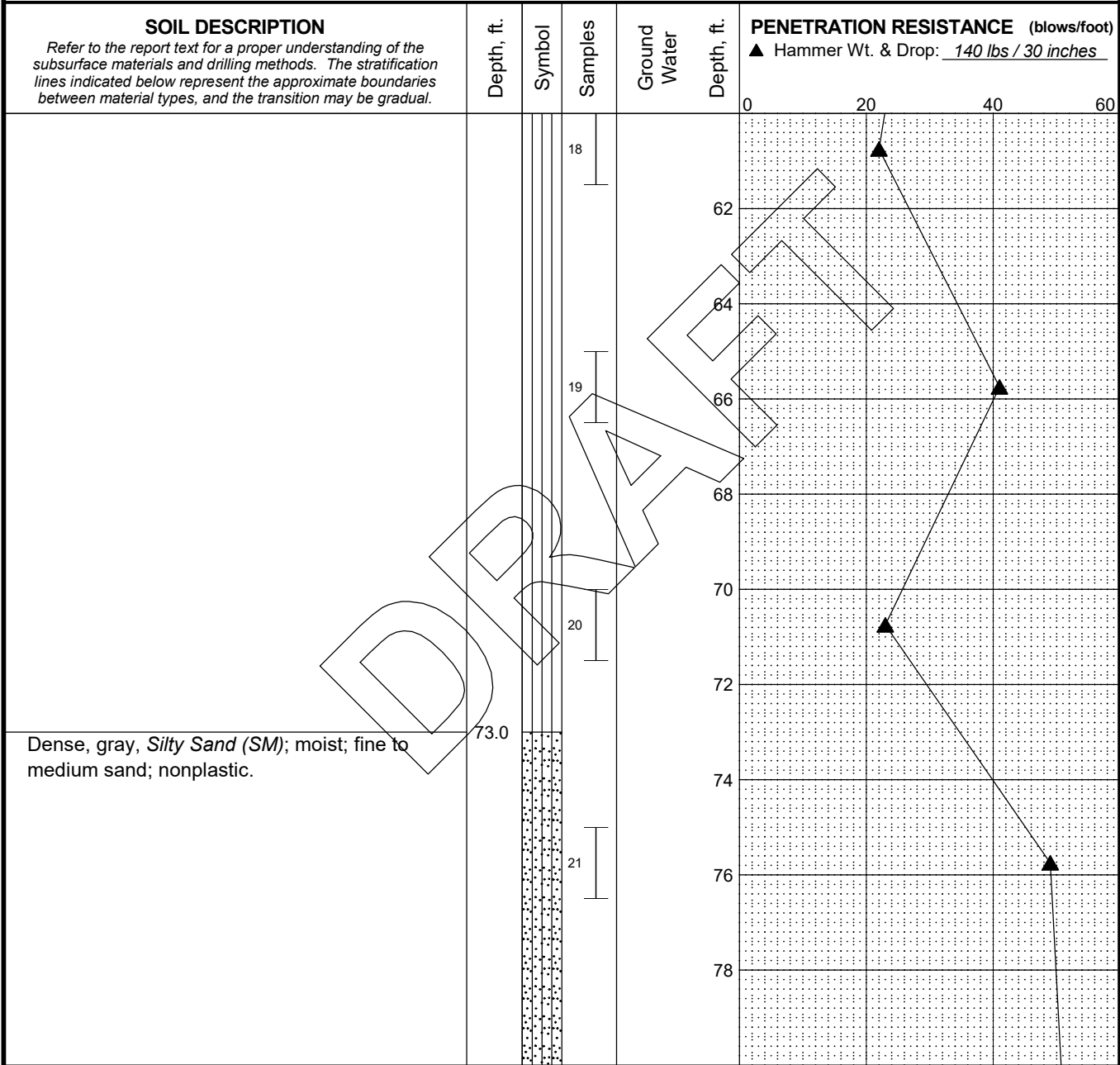
105564-001

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**FIG.**  
Sheet 3 of 6

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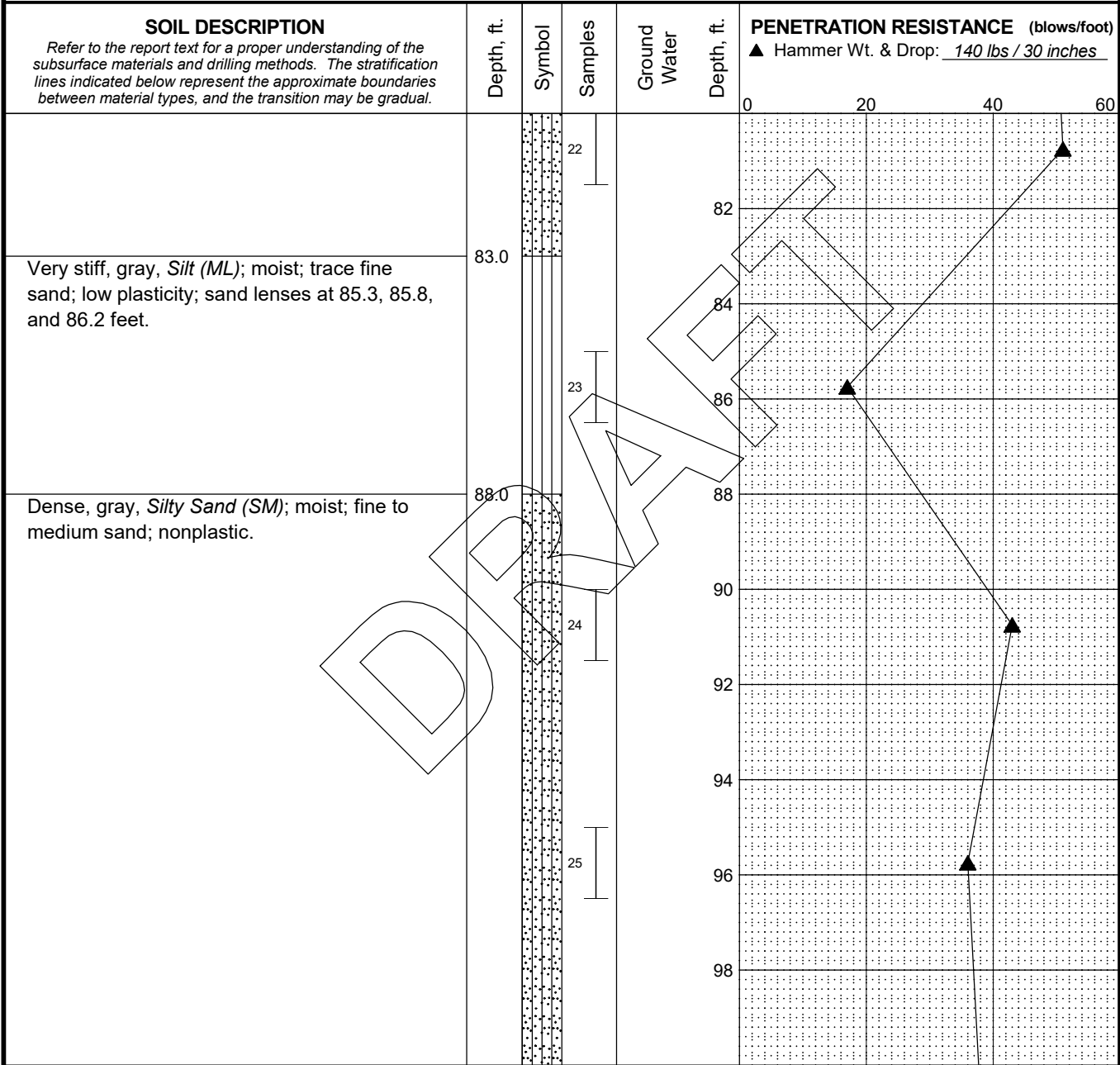
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<b>SHANNON &amp; WILSON, INC.</b> Geotechnical and Environmental Consultants	<b>FIG.</b> Sheet 4 of 6

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**LOG OF BORING B-2**

December 2021

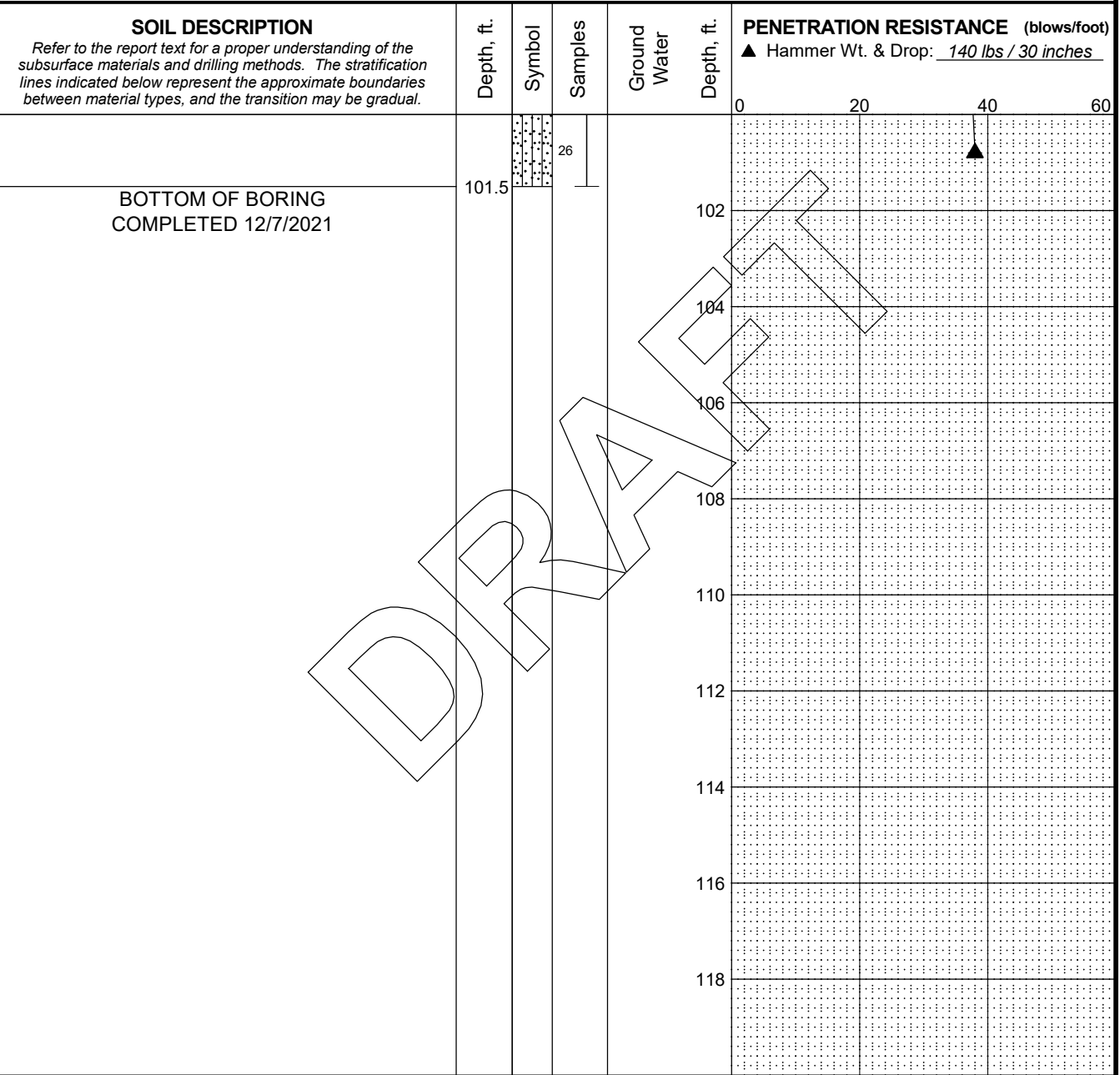
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**FIG.**  
Sheet 5 of 6

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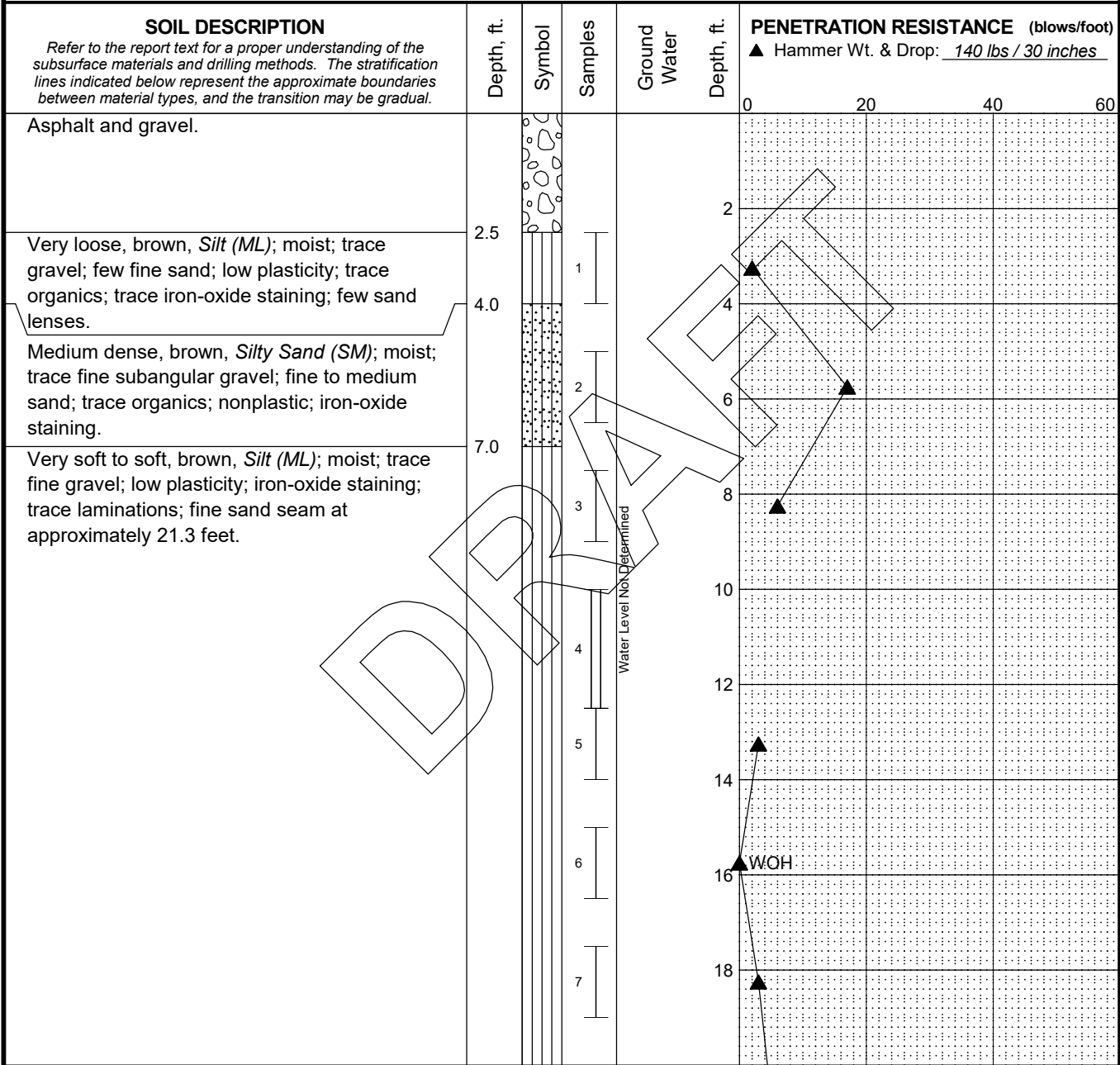
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**FIG.**  
 Sheet 6 of 6

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**NOTES**

1. Refer to KEY for explanation of symbols, codes, abbreviations and definitions.
2. Groundwater level, if indicated above, is for the date specified and may vary.
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**LOG OF BORING B-3**

December 2021

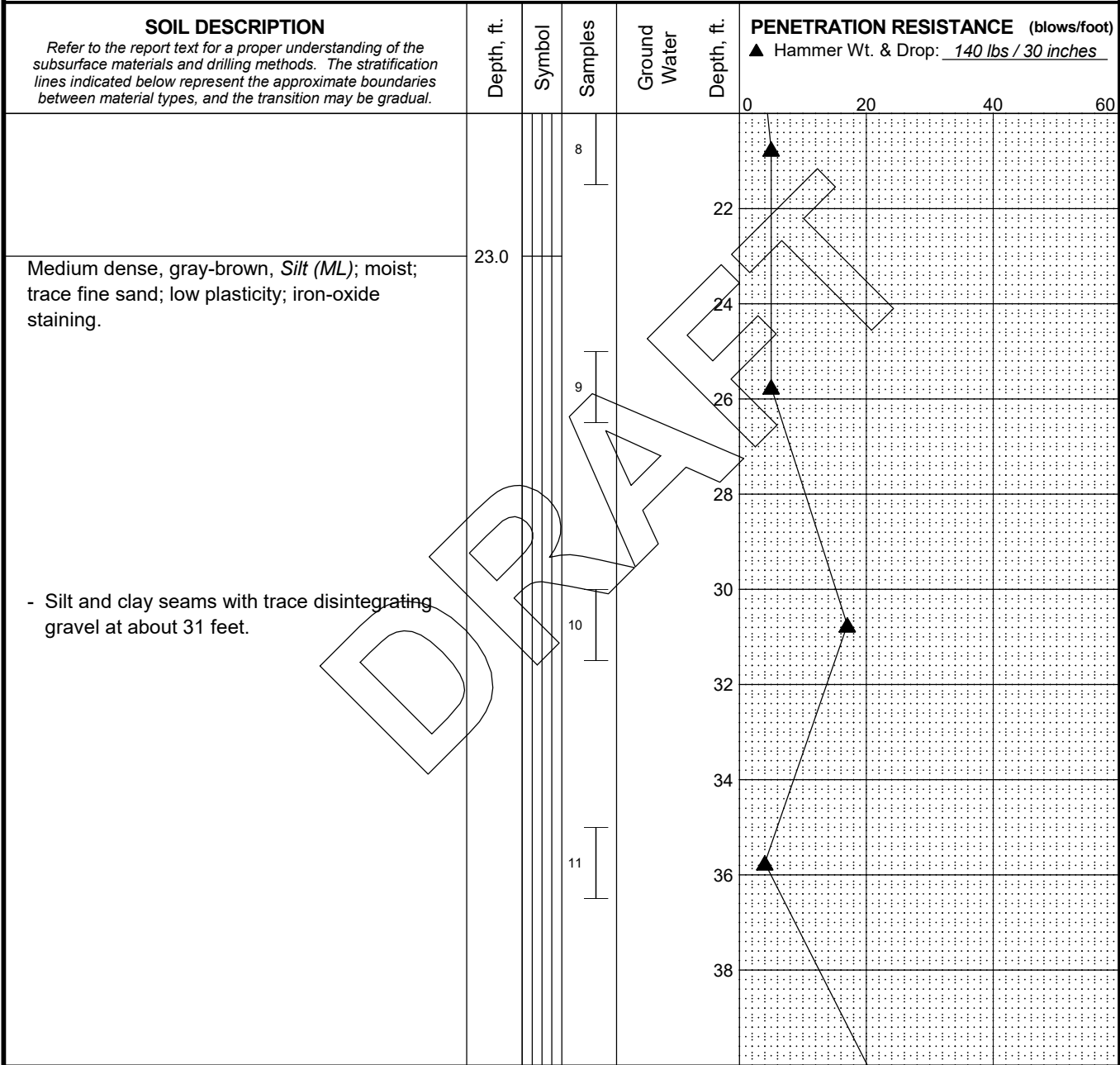
105564-001

**SHANNON & WILSON, INC.**  
 Geotechnical and Environmental Consultants

**FIG.**  
 Sheet 1 of 8

MASTER LOG E\_105564.GPJ SHAN\_WIL\_GDT 12/15/21 Log: SYD Rev: SAW Typ: LKN

Total Depth: <u>151.5 ft.</u>	Northing: <u>~ 629,649 ft.</u>	Drilling Method: <u>Mud Rotary</u>	Hole Diam.: <u>6 in.</u>
Top Elevation: <u>~ 119 ft.</u>	Easting: <u>~ 1,041,403 ft.</u>	Drilling Company: <u>Holt Services</u>	Rod Diam.: <u>NWJ</u>
Vert. Datum: _____	Station: <u>~</u>	Drill Rig Equipment: <u>CME 85</u>	Hammer Type: <u>Automatic</u>
Horiz. Datum: _____	Offset: <u>~</u>	Other Comments: _____	



CONTINUED NEXT SHEET  
**LEGEND**

- \* Sample Not Recovered
- I 2.0" O.D. Split Spoon Sample
- II Thin Wall Sample

- ◇ % Fines (<0.075mm)
- % Water Content

**NOTES**

1. Refer to KEY for explanation of symbols, codes, abbreviations and definitions.
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 Olympia, Washington

**LOG OF BORING B-3**

December 2021

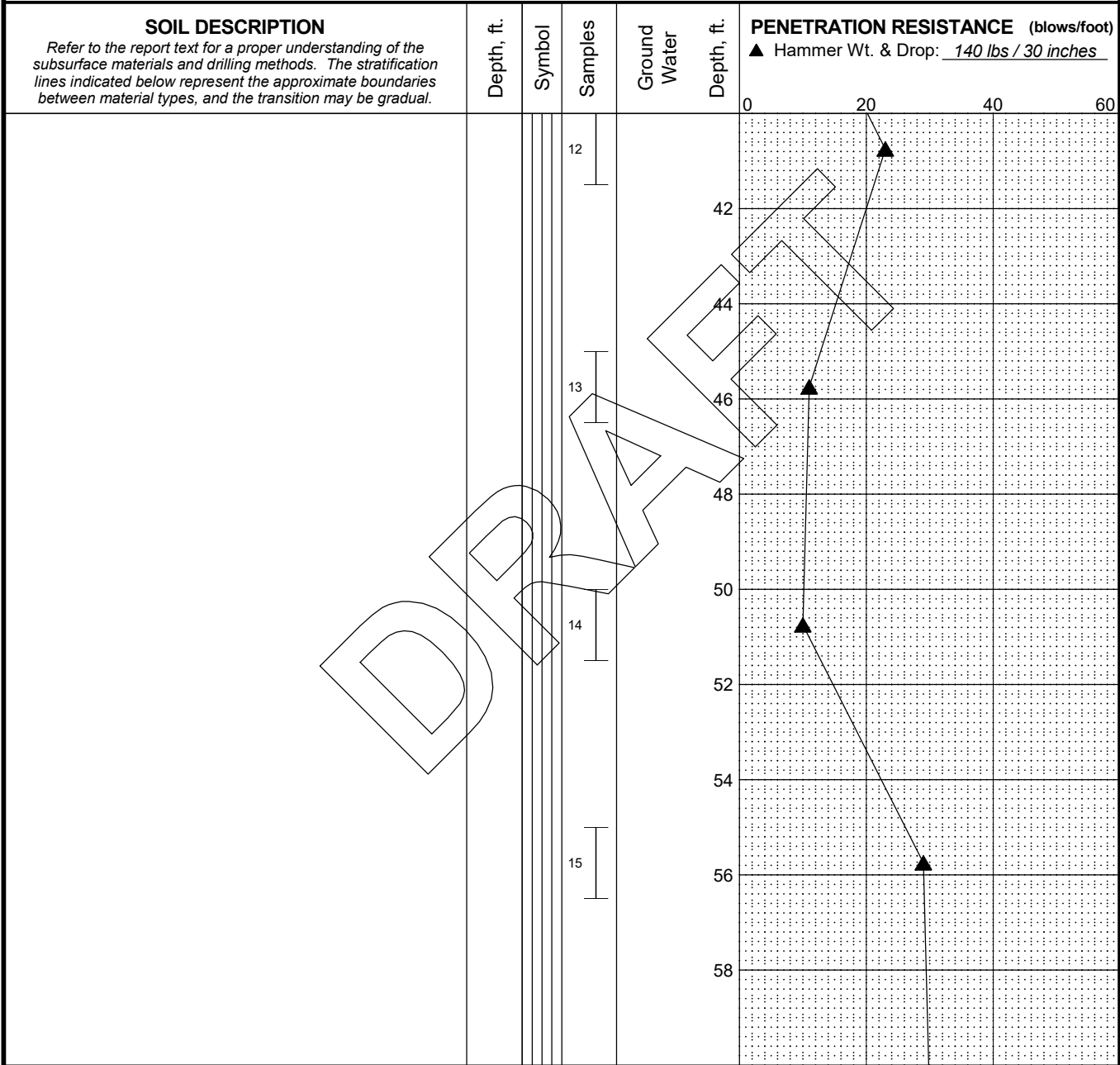
105564-001

**SHANNON & WILSON, INC.**  
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**FIG.**  
 Sheet 2 of 8

Log: SYD Rev: SAW Typ: LKN  
 MASTER LOG E. 105564.GPJ SHAN WIL.GDT 12/15/21

Total Depth: <u>151.5 ft.</u>	Northing: <u>~ 629,649 ft.</u>	Drilling Method: <u>Mud Rotary</u>	Hole Diam.: <u>6 in.</u>
Top Elevation: <u>~ 119 ft.</u>	Easting: <u>~ 1,041,403 ft.</u>	Drilling Company: <u>Holt Services</u>	Rod Diam.: <u>NWJ</u>
Vert. Datum: _____	Station: <u>~</u>	Drill Rig Equipment: <u>CME 85</u>	Hammer Type: <u>Automatic</u>
Horiz. Datum: _____	Offset: <u>~</u>	Other Comments: _____	



CONTINUED NEXT SHEET

**LEGEND**

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- II Thin Wall Sample

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Olympia, Washington

**LOG OF BORING B-3**

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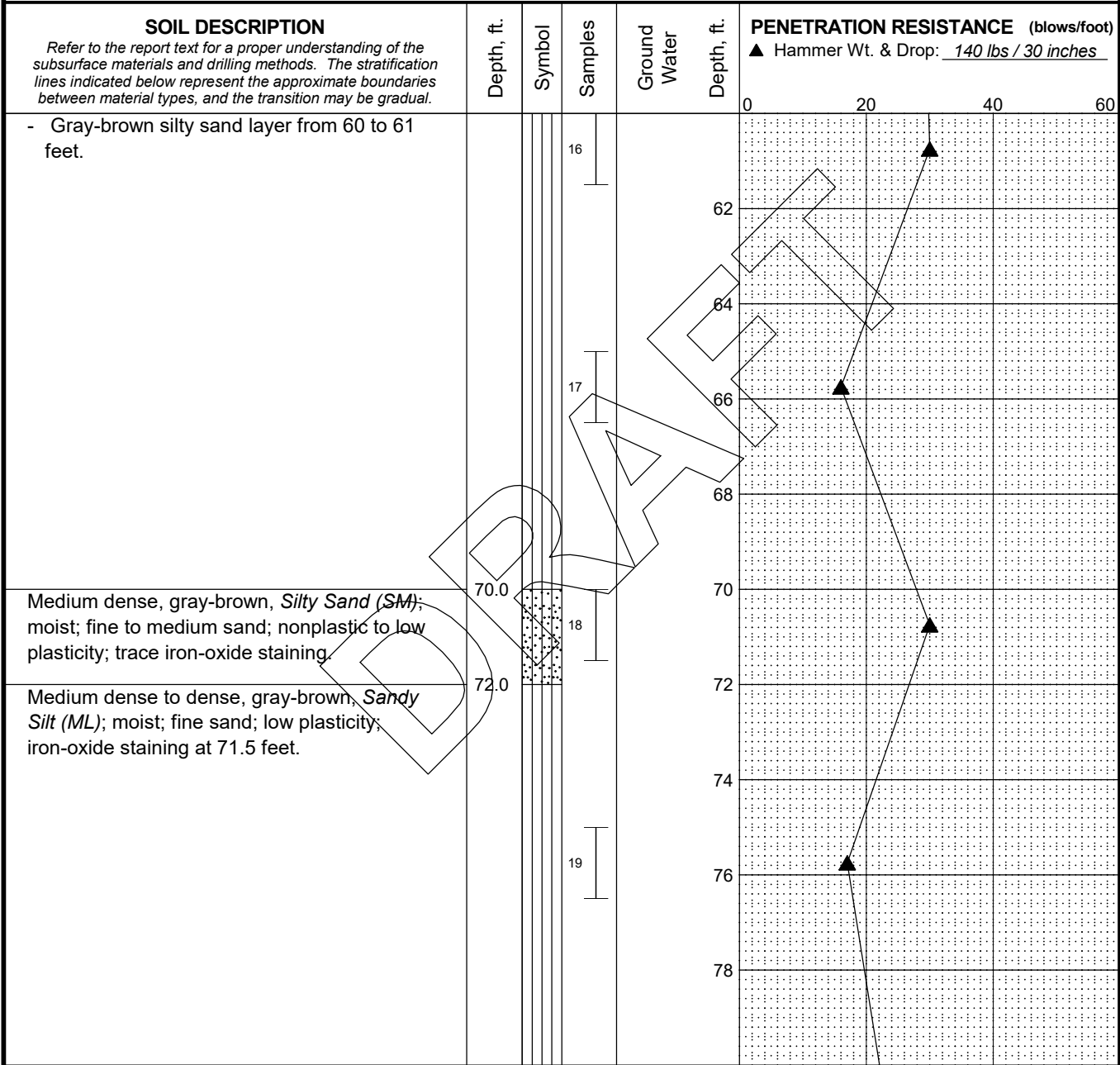
**SHANNON & WILSON, INC.**  
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**FIG.**  
Sheet 3 of 8

MASTER LOG E. 105564.GPJ SHAN\_WIL\_GDT 12/15/21 Log: SYD Rev: SAW Typ: LKN



Total Depth: 151.5 ft. Northing: ~ 629,649 ft. Drilling Method: Mud Rotary Hole Diam.: 6 in.  
 Top Elevation: ~ 119 ft. Easting: ~ 1,041,403 ft. Drilling Company: Holt Services Rod Diam.: NWJ  
 Vert. Datum: \_\_\_\_\_ Station: ~ Drill Rig Equipment: CME 85 Hammer Type: Automatic  
 Horiz. Datum: \_\_\_\_\_ Offset: ~ Other Comments: \_\_\_\_\_



CONTINUED NEXT SHEET  
**LEGEND**

- \* Sample Not Recovered
- I 2.0" O.D. Split Spoon Sample
- II Thin Wall Sample

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**LOG OF BORING B-3**

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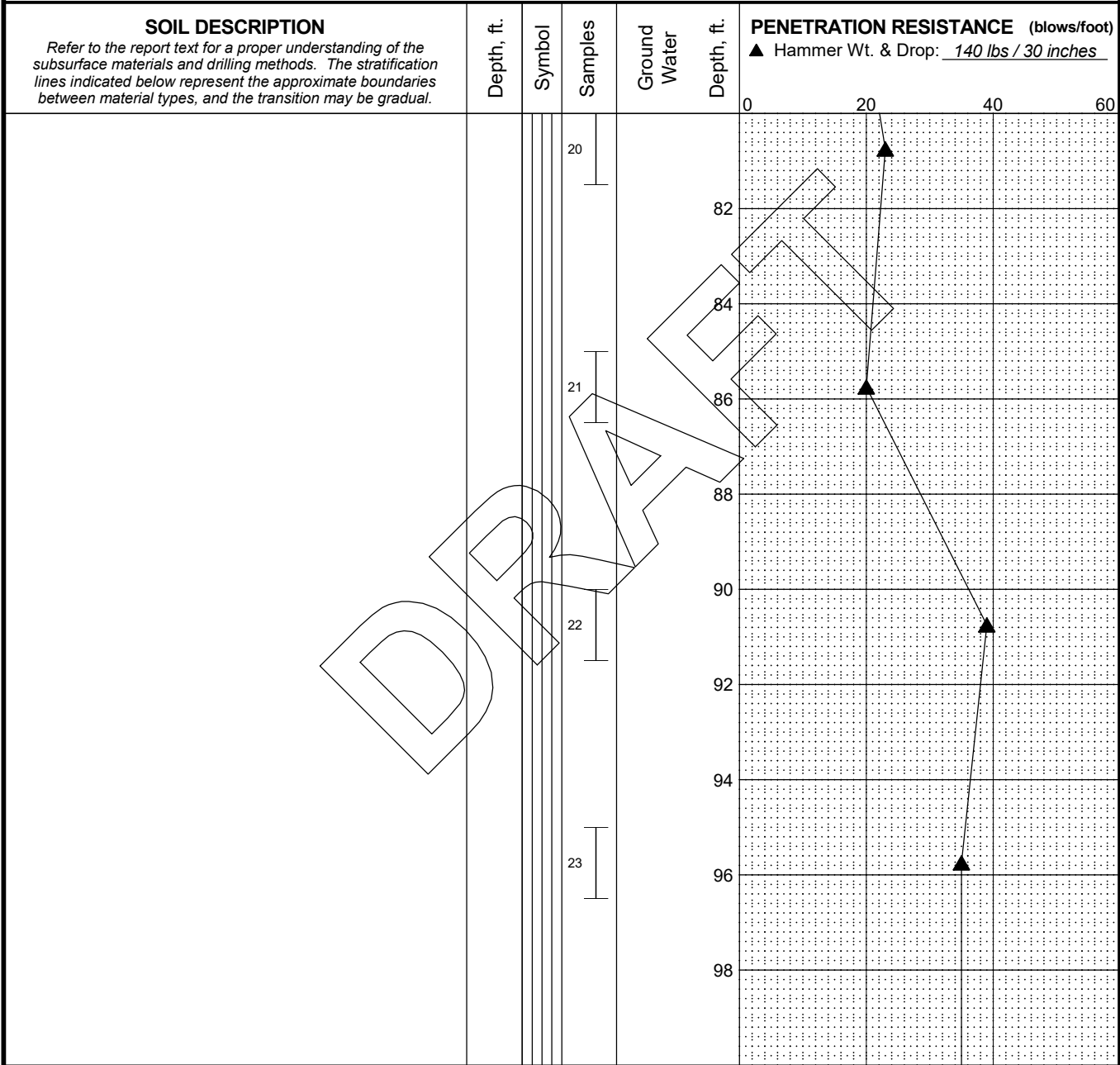
105564-001

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**FIG.**  
 Sheet 4 of 8

Log: SYD Rev: SAW Typ: LKN  
 MASTER LOG E: 105564.GPJ SHAN WIL GDT 12/15/21

Total Depth: <u>151.5 ft.</u>	Northing: <u>~ 629,649 ft.</u>	Drilling Method: <u>Mud Rotary</u>	Hole Diam.: <u>6 in.</u>
Top Elevation: <u>~ 119 ft.</u>	Easting: <u>~ 1,041,403 ft.</u>	Drilling Company: <u>Holt Services</u>	Rod Diam.: <u>NWJ</u>
Vert. Datum: _____	Station: <u>~</u>	Drill Rig Equipment: <u>CME 85</u>	Hammer Type: <u>Automatic</u>
Horiz. Datum: _____	Offset: <u>~</u>	Other Comments: _____	



CONTINUED NEXT SHEET

**LEGEND**

- \* Sample Not Recovered
- I 2.0" O.D. Split Spoon Sample
- II Thin Wall Sample

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- % Water Content

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**LOG OF BORING B-3**

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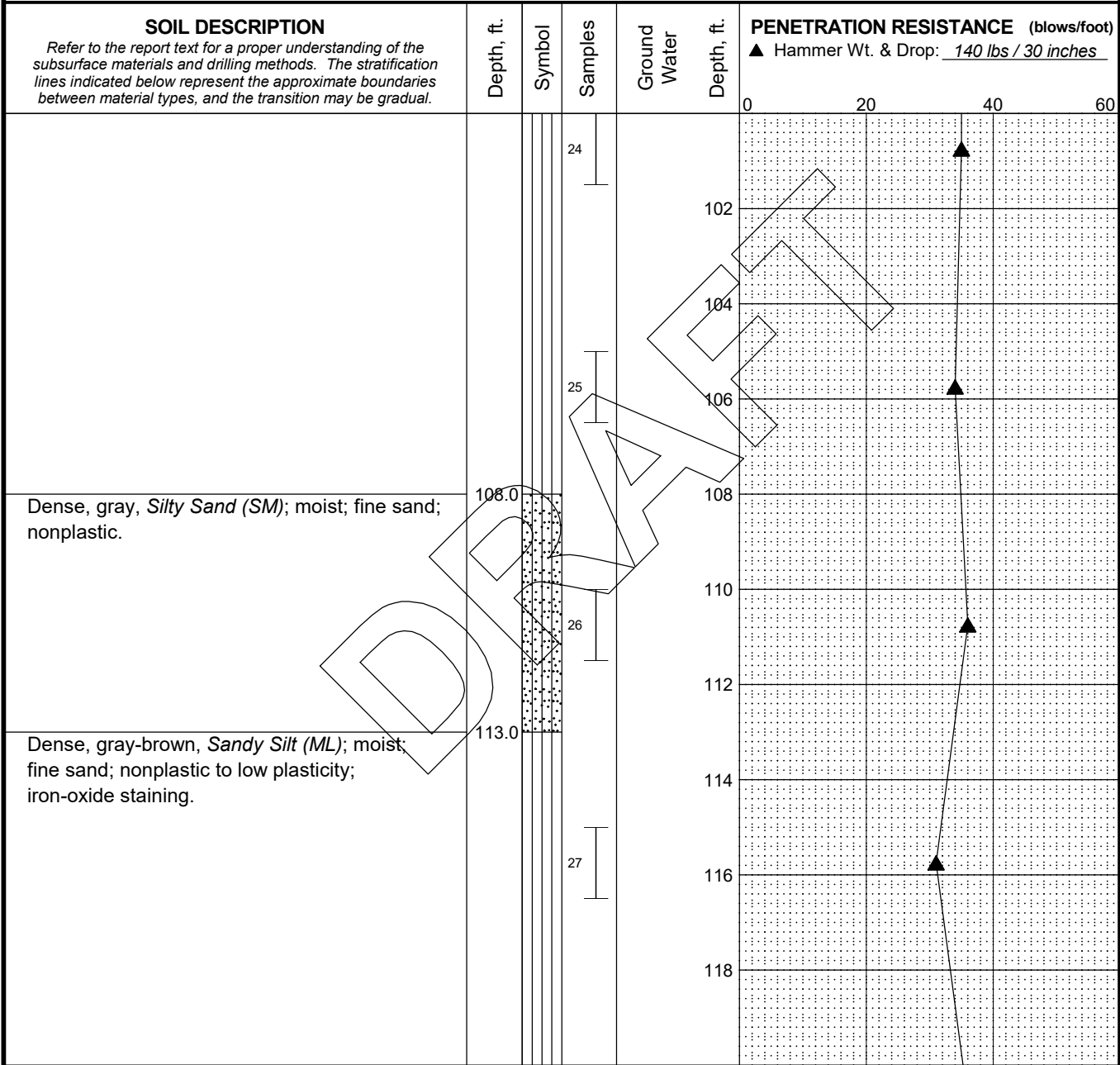
105564-001

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**FIG.**  
Sheet 5 of 8

MASTER LOG E\_105564.GPJ SHAN\_WIL\_GDT 12/15/21 Log: SYD Rev: SAW Typ: LKN

Total Depth: <u>151.5 ft.</u>	Northing: <u>~ 629,649 ft.</u>	Drilling Method: <u>Mud Rotary</u>	Hole Diam.: <u>6 in.</u>
Top Elevation: <u>~ 119 ft.</u>	Easting: <u>~ 1,041,403 ft.</u>	Drilling Company: <u>Holt Services</u>	Rod Diam.: <u>NWJ</u>
Vert. Datum: _____	Station: <u>~</u>	Drill Rig Equipment: <u>CME 85</u>	Hammer Type: <u>Automatic</u>
Horiz. Datum: _____	Offset: <u>~</u>	Other Comments: _____	



CONTINUED NEXT SHEET  
**LEGEND**

- \* Sample Not Recovered
- I 2.0" O.D. Split Spoon Sample
- II Thin Wall Sample

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- % Water Content

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Olympia, Washington

**LOG OF BORING B-3**

December 2021

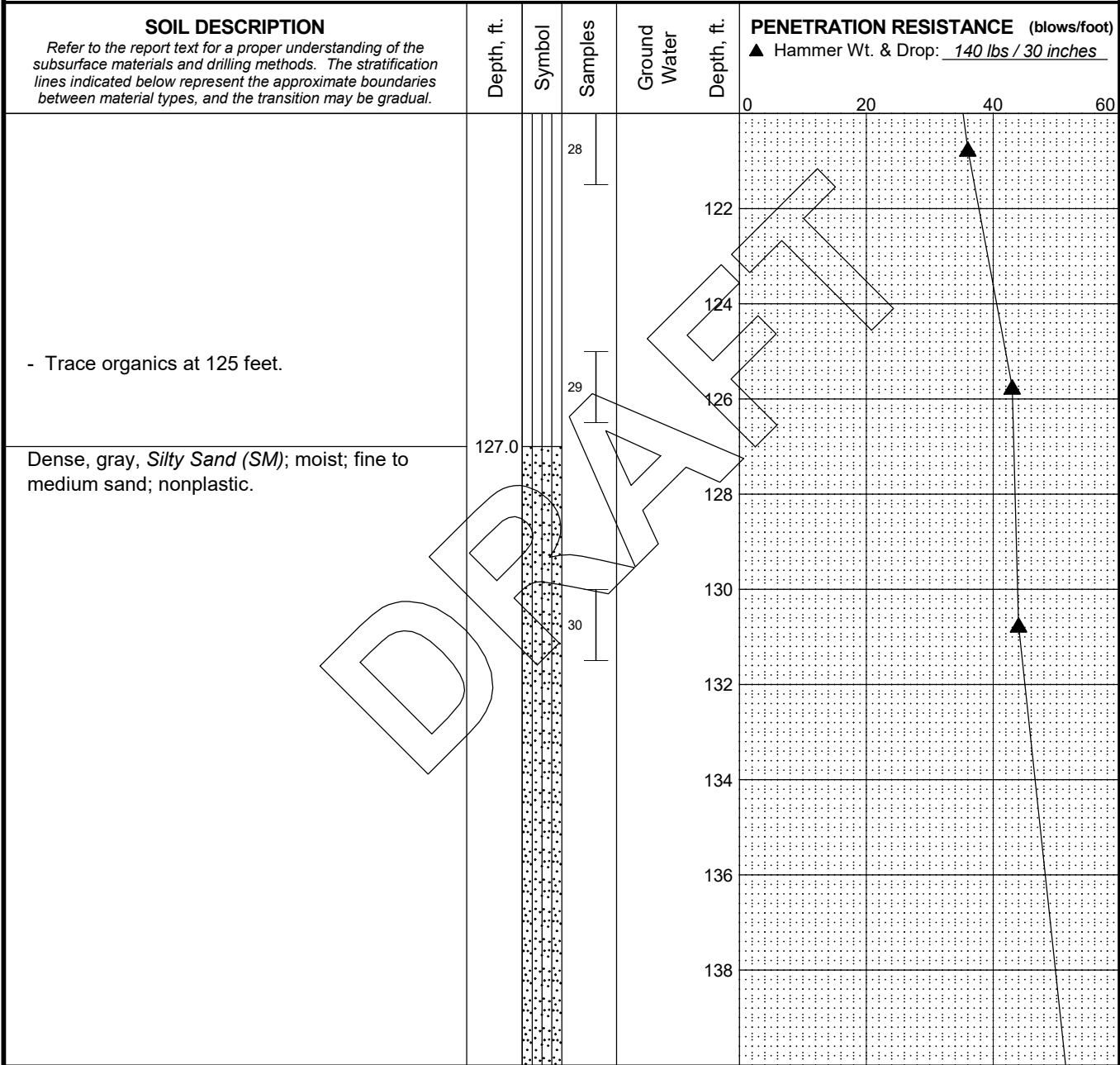
105564-001

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**FIG.**  
Sheet 6 of 8

MASTER LOG E. 105564.GPJ SHAN\_WIL\_GDT 12/15/21 Log: SYD Rev: SAW Typ: LKN

Total Depth: <u>151.5 ft.</u>	Northing: <u>~ 629,649 ft.</u>	Drilling Method: <u>Mud Rotary</u>	Hole Diam.: <u>6 in.</u>
Top Elevation: <u>~ 119 ft.</u>	Easting: <u>~ 1,041,403 ft.</u>	Drilling Company: <u>Holt Services</u>	Rod Diam.: <u>NWJ</u>
Vert. Datum: _____	Station: <u>~</u>	Drill Rig Equipment: <u>CME 85</u>	Hammer Type: <u>Automatic</u>
Horiz. Datum: _____	Offset: <u>~</u>	Other Comments: _____	



CONTINUED NEXT SHEET  
**LEGEND**

- \* Sample Not Recovered
- I 2.0" O.D. Split Spoon Sample
- II Thin Wall Sample

- ◇ % Fines (<0.075mm)
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**NOTES**

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Legislative Campus Modernization  
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**LOG OF BORING B-3**

December 2021

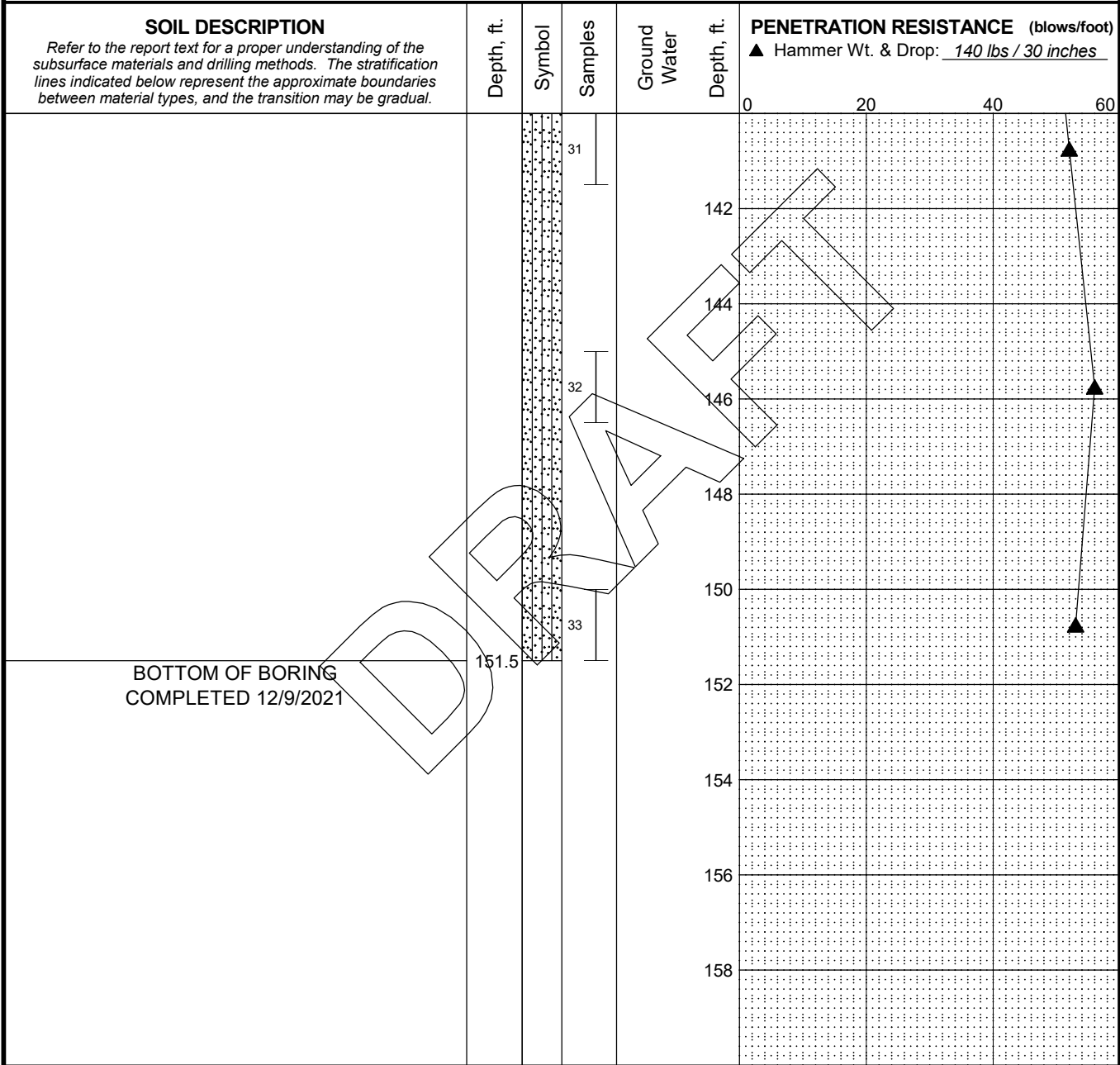
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**FIG.**  
 Sheet 7 of 8

MASTER LOG E\_105564.GPJ SHAN\_WIL\_GDT 12/15/21 Log: SYD Rev: SAW Typ: LKN

Total Depth: <u>151.5 ft.</u>	Northing: <u>~ 629,649 ft.</u>	Drilling Method: <u>Mud Rotary</u>	Hole Diam.: <u>6 in.</u>
Top Elevation: <u>~ 119 ft.</u>	Easting: <u>~ 1,041,403 ft.</u>	Drilling Company: <u>Holt Services</u>	Rod Diam.: <u>NWJ</u>
Vert. Datum: _____	Station: <u>~</u>	Drill Rig Equipment: <u>CME 85</u>	Hammer Type: <u>Automatic</u>
Horiz. Datum: _____	Offset: <u>~</u>	Other Comments: _____	



**LEGEND**

- \* Sample Not Recovered
- I 2.0" O.D. Split Spoon Sample
- II Thin Wall Sample

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- % Water Content

**NOTES**

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Olympia, Washington

**LOG OF BORING B-3**

December 2021

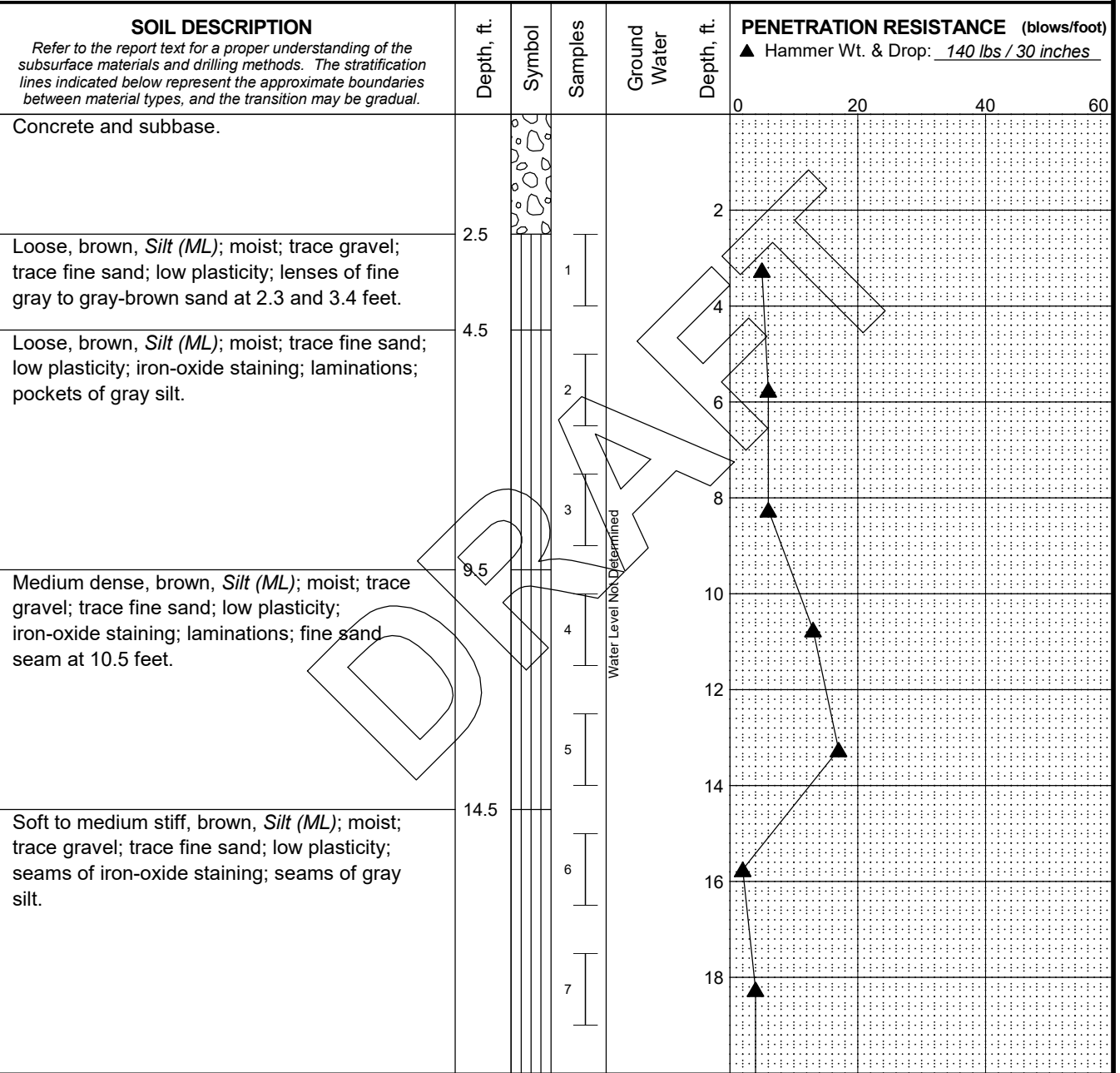
105564-001

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**FIG.**  
Sheet 8 of 8

MASTER LOG E\_105564.GPJ SHAN\_WIL\_GDT 12/15/21 Log: SYD Rev: SAW Typ: LKN

Total Depth: 101.5 ft.    Northing: ~ 629,765 ft.    Drilling Method: Mud Rotary    Hole Diam.: 6 in.  
 Top Elevation: ~ 114 ft.    Easting: ~ 1,041,275 ft.    Drilling Company: Holt Services    Rod Diam.: NWJ  
 Vert. Datum: \_\_\_\_\_    Station: ~    Drill Rig Equipment: cme 85    Hammer Type: Automatic  
 Horiz. Datum: \_\_\_\_\_    Offset: ~    Other Comments: \_\_\_\_\_



CONTINUED NEXT SHEET

**LEGEND**

- \* Sample Not Recovered
- ┆ 2.0" O.D. Split Spoon Sample

- ◇ % Fines (<0.075mm)
- % Water Content

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**LOG OF BORING B-4A**

December 2021

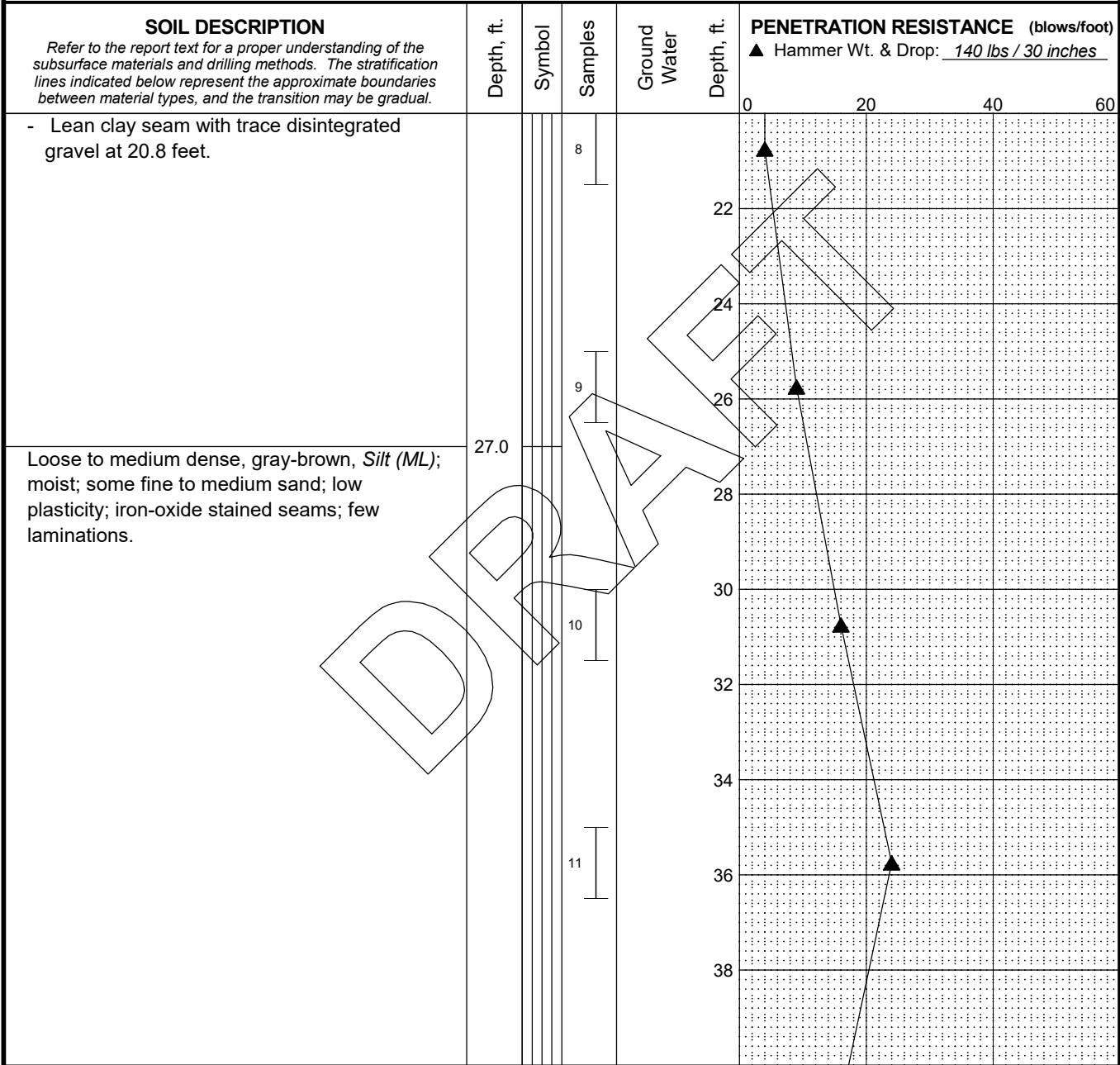
105564-001

**SHANNON & WILSON, INC.**  
 Geotechnical and Environmental Consultants

**FIG.**  
 Sheet 1 of 6

MASTER LOG E\_105564.GPJ SHAN\_WIL\_GDT 12/15/21 Log: SYD Rev: SAW Typ: LKN

Total Depth: <u>101.5 ft.</u>	Northing: <u>~ 629,765 ft.</u>	Drilling Method: <u>Mud Rotary</u>	Hole Diam.: <u>6 in.</u>
Top Elevation: <u>~ 114 ft.</u>	Easting: <u>~ 1,041,275 ft.</u>	Drilling Company: <u>Holt Services</u>	Rod Diam.: <u>NWJ</u>
Vert. Datum: _____	Station: <u>~</u>	Drill Rig Equipment: <u>cme 85</u>	Hammer Type: <u>Automatic</u>
Horiz. Datum: _____	Offset: <u>~</u>	Other Comments: _____	



CONTINUED NEXT SHEET

**LEGEND**

- \* Sample Not Recovered
- ┆ 2.0" O.D. Split Spoon Sample

- ◇ % Fines (<0.075mm)
- % Water Content

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Olympia, Washington

**LOG OF BORING B-4A**

December 2021

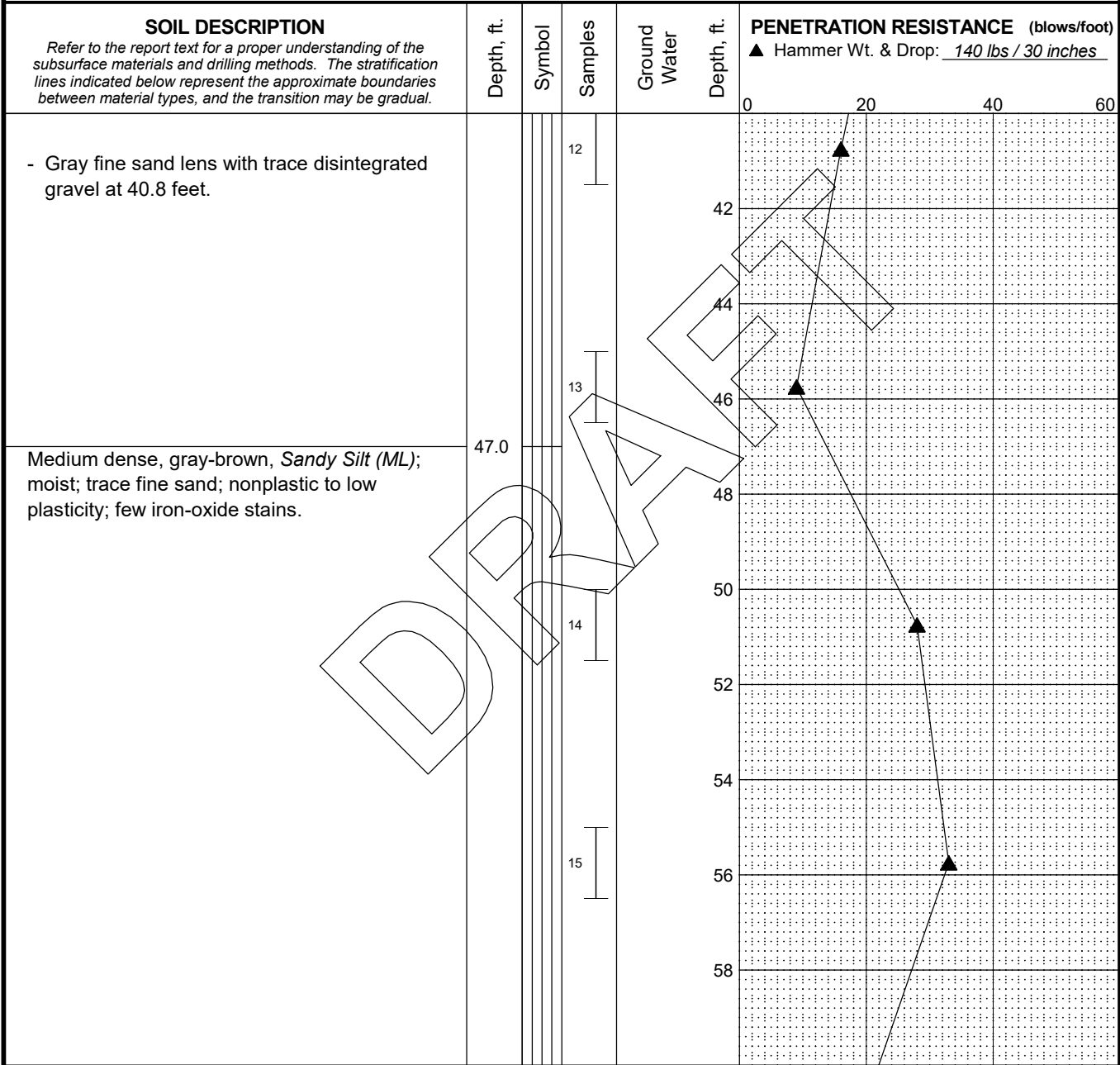
105564-001

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**FIG.**  
Sheet 2 of 6

Log: SYD Rev: SAW Typ: LKN  
MASTER LOG E: 105564.GPJ SHAN WIL GDT 12/15/21

Total Depth: <u>101.5 ft.</u>	Northing: <u>~ 629,765 ft.</u>	Drilling Method: <u>Mud Rotary</u>	Hole Diam.: <u>6 in.</u>
Top Elevation: <u>~ 114 ft.</u>	Easting: <u>~ 1,041,275 ft.</u>	Drilling Company: <u>Holt Services</u>	Rod Diam.: <u>NWJ</u>
Vert. Datum: _____	Station: <u>~</u>	Drill Rig Equipment: <u>cme 85</u>	Hammer Type: <u>Automatic</u>
Horiz. Datum: _____	Offset: <u>~</u>	Other Comments: _____	



CONTINUED NEXT SHEET  
**LEGEND**

- \* Sample Not Recovered
- ┌ 2.0" O.D. Split Spoon Sample

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 Newhouse Building  
 Olympia, Washington

**LOG OF BORING B-4A**

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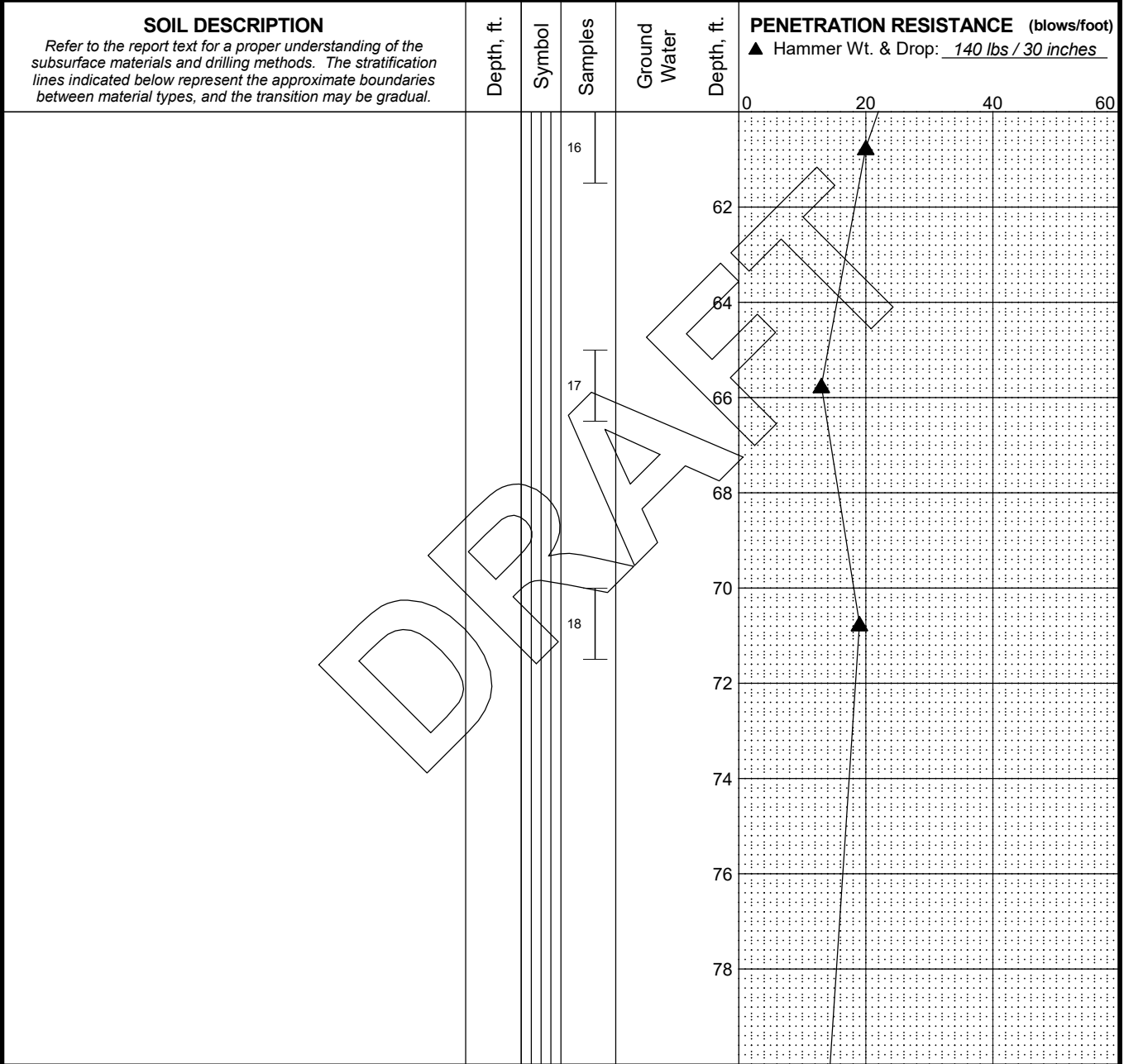
**SHANNON & WILSON, INC.**  
 Geotechnical and Environmental Consultants

**FIG.**  
 Sheet 3 of 6

MASTER LOG E. 105564.GPJ SHAN\_WIL\_GDT 12/15/21 Log: SYD Rev: SAW Typ: LKN



Total Depth: 101.5 ft. Northing: ~ 629,765 ft. Drilling Method: Mud Rotary Hole Diam.: 6 in.  
 Top Elevation: ~ 114 ft. Easting: ~ 1,041,275 ft. Drilling Company: Holt Services Rod Diam.: NWJ  
 Vert. Datum: \_\_\_\_\_ Station: ~ Drill Rig Equipment: cme 85 Hammer Type: Automatic  
 Horiz. Datum: \_\_\_\_\_ Offset: ~ Other Comments: \_\_\_\_\_



CONTINUED NEXT SHEET

**LEGEND**

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Olympia, Washington

**LOG OF BORING B-4A**

December 2021

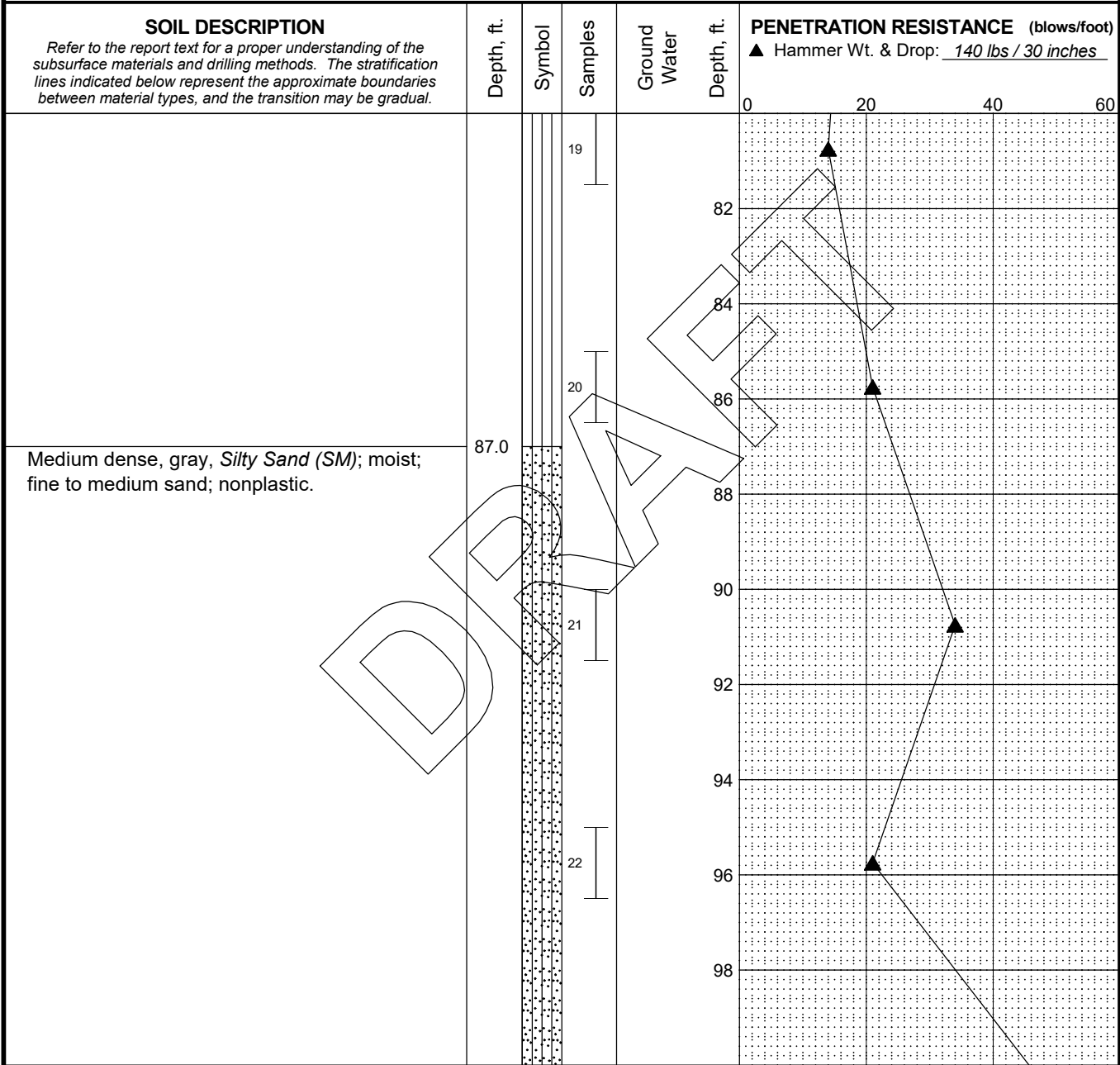
105564-001

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**FIG.**  
Sheet 4 of 6

MASTER LOG E. 105564.GPJ SHAN\_WIL\_GDT 12/15/21 Log: SYD Rev: SAW Typ: LKN

Total Depth: <u>101.5 ft.</u>	Northing: <u>~ 629,765 ft.</u>	Drilling Method: <u>Mud Rotary</u>	Hole Diam.: <u>6 in.</u>
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Vert. Datum: _____	Station: <u>~</u>	Drill Rig Equipment: <u>cme 85</u>	Hammer Type: <u>Automatic</u>
Horiz. Datum: _____	Offset: <u>~</u>	Other Comments: _____	



CONTINUED NEXT SHEET  
**LEGEND**

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**LOG OF BORING B-4A**

December 2021

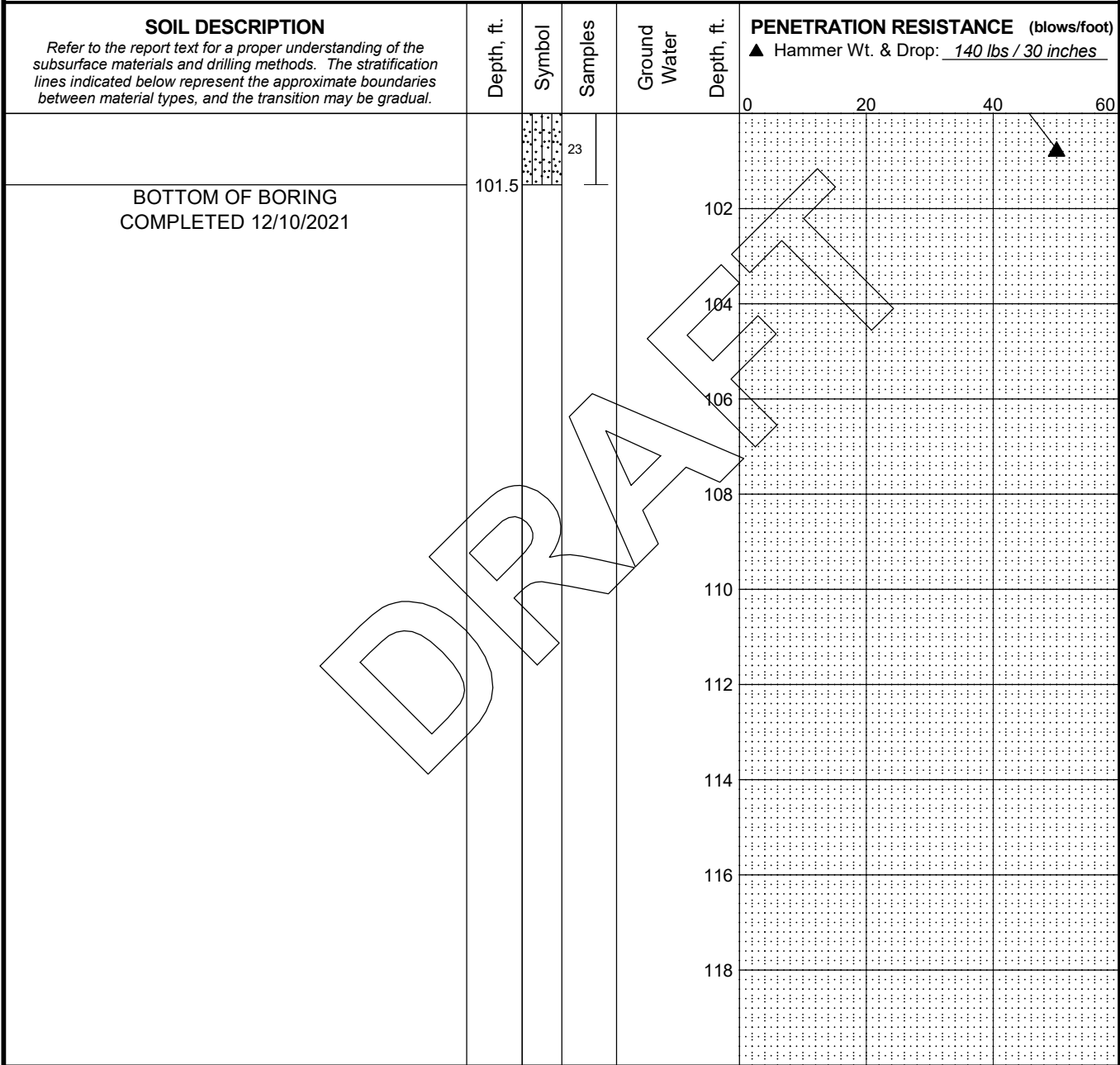
105564-001

**SHANNON & WILSON, INC.**  
Geotechnical and Environmental Consultants

**FIG.**  
Sheet 5 of 6

MASTER LOG E\_105564.GPJ SHAN\_WIL\_GDT 12/15/21 Log: SYD Rev: SAW Typ: LKN

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 Vert. Datum: \_\_\_\_\_    Station: ~    Drill Rig Equipment: cme 85    Hammer Type: Automatic  
 Horiz. Datum: \_\_\_\_\_    Offset: ~    Other Comments: \_\_\_\_\_



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- I 2.0" O.D. Split Spoon Sample

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**FIG.**  
 Sheet 6 of 6

MASTER LOG E\_105564.GPJ SHAN\_WIL\_GDT 12/15/21 Log: SYD Rev: SAW Typ: LKN