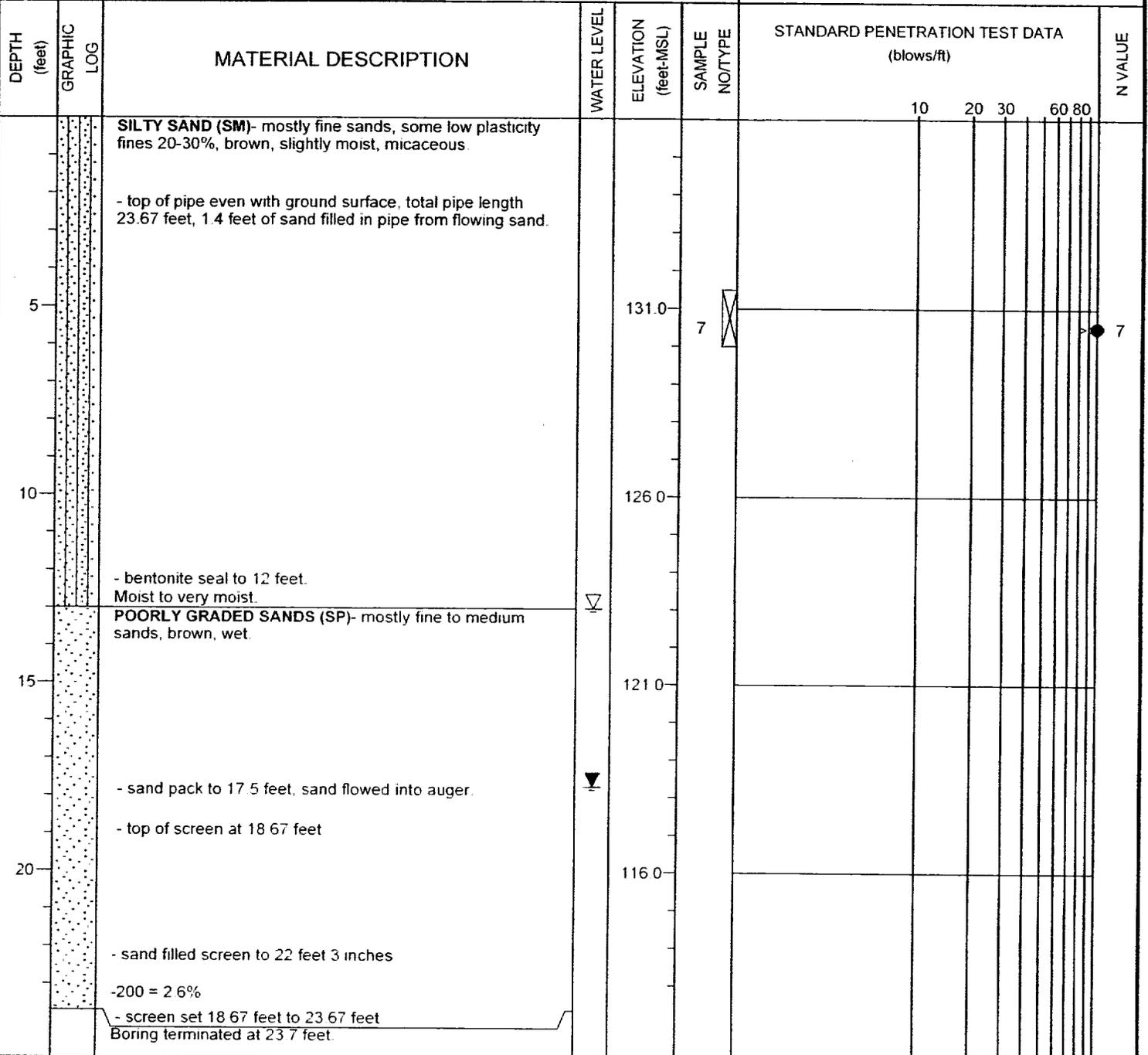


APPENDIX B

DATE DRILLED: 10/5/00	ELEVATION: 136.0	NOTES.
DRILLING METHOD: 4 1/4" H.S.A.	BORING DEPTH: 23.7	
LOGGED BY: JWB	WATER LEVEL: 13 feet at time of boring, 17.75 feet on 10/17/00.	
DRILLER: Raleigh	DRILL RIG: ATV	



1. BORING AND SAMPLING IS IN ACCORDANCE WITH ASTM D-1586
 2. PENETRATION (N-VALUE) IS THE NUMBER OF BLOWS OF 140 LB. HAMMER
 FALLING 30 IN. REQUIRED TO DRIVE 1.4 IN. I.D. SAMPLER 1 FT

PROJECT: **Congaree Levee**
Columbia, South Carolina
1611-00-937

BORING LOG B102B

DATE DRILLED: **10/5/00** ELEVATION: **136.0**
 DRILLING METHOD: **4 1/4" H.S.A.** BORING DEPTH: **8.8**
 LOGGED BY: **JWB** WATER LEVEL: **Dry at time of boring. Dry on 10/6/00.**
 DRILLER: **Raleigh** DRILL RIG: **ATV**

NOTES:

DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION	WATER LEVEL	ELEVATION (feet-MSL)	SAMPLE NO/TYPE	STANDARD PENETRATION TEST DATA (blows/ft)					N VALUE
						10	20	30	60	80	
5		<p>SILTY SAND (SM)- mostly fine sands, some low plasticity fines 20-30%, brown, slightly moist, micaceous.</p> <p>- top of pipe 1 foot 2 inches above ground surface, total length of pipe 10 feet</p> <p>- bentonite seal to 2 feet.</p> <p>- sand pack to 3 8 feet, top of screen.</p> <p>-200 = 38%, ML = 8 6%</p> <p>- screen set 3 8 feet to 8 8 feet Boring terminated at 8 8 feet</p>		131.0							

BORING LOG B102B - Same Log 10/2/00

1 BORING AND SAMPLING IS IN ACCORDANCE WITH ASTM D-1586.
 2 PENETRATION (N-VALUE) IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1 4 IN. I.D. SAMPLER 1 FT.



134 Suber Road
 Columbia, SC 29210

PROJECT:		Congaree Levee Columbia, South Carolina 1611-00-937			BORING LOG B126A						
DATE DRILLED: 10/3/00		ELEVATION: 140.0			NOTES: Top of Levee near section 15.						
DRILLING METHOD: 4 1/4" H.S.A.		BORING DEPTH: 9.0									
LOGGED BY: JWB		WATER LEVEL: Dry at time of boring. Dry on 10/12/00.									
DRILLER: Raleigh		DRILL RIG: ATV									
DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION	WATER LEVEL	ELEVATION (feet-MSL)	SAMPLE NO/TYPE	STANDARD PENETRATION TEST DATA (blows/ft)					N VALUE
						10	20	30	60	80	
5		LEAN CLAY WITH SAND (CL)- mostly low to medium plasticity fines, some fine sands, brown, moist, micaceous. - bentonite seal to 0.1 foot, top of pipe 4 1/2 inches above ground, total length of pipe 6 feet 10 inches. - sand pack to 1.5 feet, top of screen -200 = 80%, MC = 17.9%, LL = 46, PI = 20.		135.0	1						17
		SILTY SAND (SM)- mostly fine sands, some low plasticity fines, light brown, moist, micaceous.			2						
		Boring terminated at 9 feet. Offset boring, drilled to 6.5 foot to install screen									

1. BORING AND SAMPLING IS IN ACCORDANCE WITH ASTM D-1586
2. PENETRATION (N-VALUE) IS THE NUMBER OF BLOWS OF 140 LB HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1 1/4 IN I.D. SAMPLER 1 FT.



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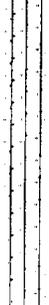
PROJECT:		Congaree Levee Columbia, South Carolina 1611-00-937			BORING LOG B126B						
DATE DRILLED: 10/4/00		ELEVATION: 118.0			NOTES: Base of Levee in natural soils.						
DRILLING METHOD: 4 1/4" H.S.A.		BORING DEPTH: 10.0									
LOGGED BY: JWB		WATER LEVEL: 7.5 feet at time of boring, Dry on 10/12/00.									
DRILLER: Raleigh		DRILL RIG: ATV									
DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION	WATER LEVEL	ELEVATION (feet-MSL)	SAMPLE NO/TYPE	STANDARD PENETRATION TEST DATA (blows/ft)				N VALUE	
						10	20	30	60	80	
0 to 5		<p>LEAN CLAY WITH SAND (CL)- mostly low to medium plasticity fines, some fine sands 20-30%, brown, moist to very moist, micaceous, grades to sandy silt.</p> <ul style="list-style-type: none"> - bentonite seal to ground surface, top of pipe 4 feet 3 inches above ground surface, total pipe length 10 feet 2 inches. - sand pack to 0.9 feet, top of screen. 		113.0	1						4
5 to 8		<p>POORLY GRADED SAND (SP)- mostly fine to coarse sand, wet, mottled brown</p> <p>- screen set 0.9 feet to 5.9 feet -200 = 85%, MC = 35.3%, LL = 46%, PI = 22</p>	▽		2						4
8 to 10		Boring terminated at 8 feet. Offset 15 feet drilled to 6.8 feet backfilled boring with cuttings and compacted to 5.9 feet.		108.0							

1 BORING AND SAMPLING IS IN ACCORDANCE WITH ASTM D-1586
 2 PENETRATION (N-VALUE) IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1 4 IN. I.D. SAMPLER 1 FT



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PROJECT:		Congaree Levee Columbia, South Carolina 1611-00-937		BORING LOG B127A							
DATE DRILLED: 10/3/00		ELEVATION: 144.0		NOTES: Top of Levee.							
DRILLING METHOD: 4 1/2" H.S.A.		BORING DEPTH: 21.1									
LOGGED BY: JWB		WATER LEVEL: Dry at time of boring. Dry on 10/13/00.									
DRILLER: Raleigh		DRILL RIG: ATV									
DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION	WATER LEVEL	ELEVATION (feet-MSL)	SAMPLE NO/TYPE	STANDARD PENETRATION TEST DATA (blows/ft)				N VALUE	
						10	20	30	60	80	
0 - 5		SANDY LEAN CLAY (CL) - mostly low to medium plasticity fines, some fine sands 35-50%, brown, moist, micaceous. - top of pipe 5 1/2 inches above ground surface, total length of pipe 21 feet 6 inches.									
5 - 12.8		SILTY SAND (SM) - mostly fine sands, some low plasticity fines, reddish brown, slightly moist, micaceous, commonly grades to silty sand. (Fill) - bentonite seal to 12.8 feet		139.0	1						13
12.8 - 16		SILTY SAND (SM) - mostly fine sands, some low plasticity fines, light brown, slightly moist to dry micaceous.		134.0							
16 - 21.05		SILTY SAND (SM) - mostly fine sands, some low plasticity fines, light brown, slightly moist to dry micaceous. - at 16 feet decrease in fines content, micaceous. - sand pack to 16.05 feet, top of screen -200 = 36%, MC = 7.5% - screen set 16.05 feet to 21.05 feet Boring terminated at 21.05 feet		129.0							
				124.0	2						21

BORING LOG 00-937A (P1) SAME LOG 10/25/00

- 1 BORING AND SAMPLING IS IN ACCORDANCE WITH ASTM D-1586
- 2 PENETRATION (N-VALUE) IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1.4 IN. I.D. SAMPLER 1 FT.



134 Suber Road
Columbia, SC 29210

PROJECT Congaree Levee Columbia, South Carolina 1611-00-937	BORING LOG B141A
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DATE DRILLED: 10/3/00	ELEVATION: 148.0	NOTES Approximately 460 feet along north levee from corner, Section 1A.
DRILLING METHOD: 4 1/2" H.S.A.	BORING DEPTH: 10.2	
LOGGED BY: JWB	WATER LEVEL: Dry at time of boring. Dry on 10/18/00.	
DRILLER: Raleigh	DRILL RIG: ATV	

DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION	WATER LEVEL	ELEVATION (feet-MSL)	SAMPLE NO./TYPE	STANDARD PENETRATION TEST DATA (blows/ft)					N VALUE
						10	20	30	60	80	
0		SILTY SAND (SM) - mostly fine sand, some low plasticity fines, brown, slightly moist, micaceous. - top of pipe flush with ground surface total length of pipe 10 feet 2 inches. - bentonite seal to 2 feet 3 inches. - sand pack to 5.2 feet, top of screen -200 = 17.5%, MC = 4.8% - screen set at 5.2 feet to 10.2 feet Boring terminated at 10.2 feet		143.0							
10				138.0	1						10

- 1 BORING AND SAMPLING IS IN ACCORDANCE WITH ASTM D-1586
- 2 PENETRATION (N-VALUE) IS THE NUMBER OF BLOWS OF 140 LB HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1.4 IN. I.D. SAMPLER 1 FT.



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PROJECT:		Congaree Levee Columbia, South Carolina 1611-00-937			BORING LOG B141B						
DATE DRILLED: 10/3/00		ELEVATION: 148.0			NOTES:						
DRILLING METHOD: 4 1/4" H.S.A.		BORING DEPTH: 23.0									
LOGGED BY: JWB		WATER LEVEL: Dry at time of boring. Dry on 10/13/00.									
DRILLER: Raleigh		DRILL RIG: ATV									
DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION	WATER LEVEL	ELEVATION (feet-MSL)	SAMPLE NO/TYPE	STANDARD PENETRATION TEST DATA (blows/ft)					N VALUE
						10	20	30	60	80	
5		SILTY SAND (SM)- mostly fine sand, some low plasticity fines, brown, slightly moist, micaceous. - top of pipe 1/4 inch below ground surface, total length of pipe 22 feet 4 3/4 inches.		143.0							
10				138.0							
15		- bentonite seal to 13 feet 5 inches.		133.0							
20		- sand pack to 17.4 feet, top of screen.		128.0							
		-200 = 17.0%, MC = 9.4% - screen set at 17.4 feet to 22.4 feet.			1						
		Boring terminated at 23 feet.									17

BORING LOG 00-937A GPJ S&ME GDT 10/25/00

- 1 BORING AND SAMPLING IS IN ACCORDANCE WITH ASTM D-1586
2. PENETRATION (N-VALUE) IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1.4 IN. I.D. SAMPLER 1 FT



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PROJECT:		Congaree Levee Columbia, South Carolina 1611-00-937			BORING LOG B240A						
DATE DRILLED: 10/4/00		ELEVATION: 134.0			NOTES:						
DRILLING METHOD 4 1/4" H.S.A.		BORING DEPTH: 9.5									
LOGGED BY: JWB		WATER LEVEL: Dry at time of boring. Dry on 10/16/00.									
DRILLER Raleigh		DRILL RIG: ATV									
DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION	WATER LEVEL	ELEVATION (feet-MSL)	SAMPLE NO/TYPE	STANDARD PENETRATION TEST DATA (blows/ft)					N VALUE
						10	20	30	60	80	
5		<p>LEAN CLAY (CL)- mostly low to medium plasticity fines, some fine sands 15-25%, moist to slightly moist, grades to silt commonly, occasional silty sand lenses.</p> <p>- top of pipe 1/4 inch below ground surface, total length of pipe 9 feet 6 1/2 inches</p> <p>- bentonite seal to 2.8 feet</p> <p>- sand pack to 4.5 feet, top of screen</p> <p>-200 = 87, MC = 19.9, LL = 41, PI = 16</p> <p>- screen set 4.5 feet to 9.5 feet Boring terminated at 9.5 feet.</p>		129.0							

BORING LOG 00-937A GP1 S&ME GDT 10/25/00

- 1 BORING AND SAMPLING IS IN ACCORDANCE WITH ASTM D-1586
- 2 PENETRATION (N-VALUE) IS THE NUMBER OF BLOWS OF 140 LB HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1.4 IN. I.D. SAMPLER 1 FT.



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DATE DRILLED: 10/4/00	ELEVATION: 134.0	NOTES:
DRILLING METHOD: 4 1/2" H.S.A.	BORING DEPTH: 28.2	
LOGGED BY: JWB	21 feet at time of boring, WATER LEVEL: 18.1 feet on 10/16/00.	
DRILLER: Raleigh	DRILL RIG: ATV	

DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION	WATER LEVEL	ELEVATION (feet-MSL)	SAMPLE NO/TYPE	STANDARD PENETRATION TEST DATA (blows/ft)					N VALUE
						10	20	30	60	80	
5	[Hatched pattern]	LEAN CLAY WITH SAND (CL) - mostly low to medium plasticity fines, some fine sands, brown, slightly moist to moist, micaceous - top of pipe 1 foot 10 inches above ground surface, total length of pipe 30 feet	▼	129.0							
10				124.0							
15		- bentonite seal to 16 feet 7 inches.		119.0							
20			▼	114.0							
25	[Dotted pattern]	POORLY GRADED SAND (SP) - fine sands, visual classification from cuttings - sand pack to 21.9 feet, sand flowed into auger, 2 1/2 bags sand added for pack - top of screen.	▼	109.0							
		- screen set 23.2 feet to 28.2 feet Boring terminated at 28.2 feet									

1. BORING AND SAMPLING IS IN ACCORDANCE WITH ASTM D-1586
 2. PENETRATION (N-VALUE) IS THE NUMBER OF BLOWS OF 140 LB HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1.4 IN I.D. SAMPLER 1 FT

DATE DRILLED: 10/5/00	ELEVATION: 132.0	NOTES:
DRILLING METHOD: 4 1/4" H.S.A.	BORING DEPTH: 26.6	
LOGGED BY: JWB	11.5 feet at time of boring, WATER LEVEL: 14.3 feet on 10/14/00.	
DRILLER: Raleigh	DRILL RIG: ATV	

DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION	WATER LEVEL	ELEVATION (feet-MSL)	SAMPLE NO/TYPE	STANDARD PENETRATION TEST DATA (blows/ft)					N VALUE
						10	20	30	60	80	
5		LEAN CLAY WITH SAND (CL) - mostly low to medium plasticity fines, some fine sands 20-30%, slightly moist, micaceous. - top of pipe 3 feet 1/4 inch above ground surface, total length of pipe 29 6 feet	▽	127.0							
10		- bentonite seal to 8 feet 11 inches.		122.0							
15		SILTY SAND (SM) - mostly fine sands, some low plasticity fines 20-35%.	▽	117.0							
20		POORLY GRADED SANDS (SP) - fine to medium sands, gray, grades to POORLY GRADED SAND WITH SILT - sand pack to 19 feet, sand flowed into auger 1 bag added for pack. - top of screen. -200 = 10%. MC = 34.2%		112.0							
25		- screen set 21 6 feet to 26 6 feet. Boring terminated at 26 6 feet.		107.0							

1 BORING AND SAMPLING IS IN ACCORDANCE WITH ASTM D-1586
 2 PENETRATION (N-VALUE) IS THE NUMBER OF BLOWS OF 140 LB HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1.4 IN. I.D. SAMPLER 1 FT

DATE DRILLED: 10/5/00	ELEVATION: 132.0
DRILLING METHOD: 4 1/4" H.S.A.	BORING DEPTH: 17.9
LOGGED BY: JWB	WATER LEVEL: 11.5 feet at time of boring, 14 feet on 10/14/00.
DRILLER Raleigh	DRILL RIG: ATV

NOTES:

DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION	WATER LEVEL	ELEVATION (feet-MSL)	SAMPLE NO/TYPE	STANDARD PENETRATION TEST DATA (blows/ft)					N VALUE
						10	20	30	60	80	
5	[Hatched Pattern]	LEAN CLAY WITH SAND (CL)- mostly low to medium plasticity fines, some fine sands 20-30% slightly moist, micaceous. - top of pipe 2 feet 3 3/4 inches above ground surface, total pipe length 20 feet 2 3/4 inches - bentonite seal to 7 feet 11 inches	▽	127.0							
10	[Hatched Pattern]	- bentonite seal to 7 feet 11 inches		122.0							
15	[Dotted Pattern]	SILTY SAND (SM)- mostly fine sands, some low plasticity fines 20-30%. - sand pack to 12.9 feet, top of screen -200 =17%. - screen set 12.9 feet to 17.9 feet Boring Terminated at 17.9 feet	▽	117.0							

1 BORING AND SAMPLING IS IN ACCORDANCE WITH ASTM D-1586.
 2 PENETRATION (N-VALUE) IS THE NUMBER OF BLOWS OF 140 LB. HAMMER FALLING 30 IN. REQUIRED TO DRIVE 1.4 IN. I.D. SAMPLER 1 FT.



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