F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99-1(K,BY&AC-B)	COOK	497	320
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
Sheet S-21 of S-21		CONTRACT 80906		

O'BRIEN & ASSOCIATES, INC.
CONSULTING ENGINEERS
1835 E. OAKS ST.,ARLINGTON HTS. IL 60005
(312)956-1041

Bridge Foundation Boring Log

Sh. 1 of 2 Sh.

Job No. 0-91-425-90
PROJECT I-55 & I-80 BRIDGE SN 099-0042,43 Date 2-3-92
Existing & Proposed Bridge
ROUTE FAI -80 Over West Frontage Road Bored By TOB
Township 36 N
SEC. Range 9 E, 28 & 27 STA. 1932+00 Checked By DOB
COUNTY Will

Boring No. 49
Station 1932+25.33
Offset 21.27 Lt

Ground Surface	Elevation	N	Qu t/s.f.	w (%)
	604.7	0		
Black SILTY CLAY (Topsoil Fill)	Soft	2	0.5	41
	604.2	4		
	Stiff	5		
		2	B	
		3	20%	22
		3	1.08	
Brown & gray SILTY CLAY (Fill)		3	B	
		4	20%	21
		5	0.26	
	Very Stiff	3	B 20%	
		4	3.14	20
		5	2.65	20
		3	B 20%	
	Stiff	5	1.5	22
		5	2.5	
		9+		
		6	B 20%	
	Very Stiff	7	3.24	22
		9	3.65	26
		8	B 20%	
		6		
		8	20%	19
		11	3.31	
		5	B	
	Stiff	6	20%	25
	584.7	7	1.67	
Dark gray & brown CLAY	Stiff	4	3	
	583.7	7	2.0	28
Brown SILTY CLAY	Hard	10	4.62	18
		8	B 20%	

Surface Water El.				
Groundwater El. at Completion	590.7			
After 168 Hours	570.7			
After 408 hours 582.7				
Continued from previous column		Elevation	N	Qu t/s.f.	w (%)
			7		
			11	15%	16
			13	5.50	
Trace shale fragments at -26'			12		
			17	20%	17
			24	10.03	
			11		
			15	20%	22
	574.7		19	14.81	
Gray poorly graded SAND with gravel	Dense	-30	12	NP	13
	573.7		22		
			19	NP	7
Gray dolomite LIMESTONE COBBLES, GRAVEL & SAND	Dense		8	NP	15
	572.2		12	S 1.94	
Gray poorly graded SAND with gravel (Possible wash-in)			13	5.40	15
Gray CLAYEY SILT	Hard				
Gray poorly graded with gravel (Possible wash-in)	569.7	-35	10	NP	15
	569.2		100/6"	2.42	13
Gray SILTY CLAY some sand 'Hardpan' SAND	Hard 568.7			B 20%	
Apparent fractured bedrock from -36' to -46'				05	
No recovery from 10' core barrel		-40		0% Recovery	
		-45			
(continued)					

N-Standard Penetration Test-Blows per foot to drive 2" O.D. Split Spoon Sampler 12" with 140 No. hammer falling 30".

Qu-Unconfined Compressive Strength - t/sf

w - Water Content - percentage of oven dry weight-%

Type failure:
B - Bulge Failure
S - Shear Failure
E - Estimated Value
P - Penetrometer
NP- Non Plastic

* Qu = B@20% 1.77 Sample disturbed

BD 137 (Rev. 4-78)

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Sh. 2 of 2 Sh.

Job No. 0-91-425-90
Project FAI -80
Boring 49
Station 1932+25.33 21.27 Lt

Apparent Bedrock (continued)	Elevation	N	Qu t/s.f.	w (%)
End of Boring at -46'	-60			
	-65			
	-70			
	-75			
	-80			
	-85			
	-90			
	-95			

BD 137 (Rev. 4-78)

DATE: 102005
FILENAME: n:\proj\2890\2890-02\design\structural\2890-02-s-21-borings3.dgn

REVISIONS	
NAME	DATE

Clarke Group, Inc.
CONSULTING ENGINEERS
5007 NORTH CUMBERLAND AVENUE :: CHICAGO, ILLINOIS 60656 :: (773) 775-4800

ILLINOIS DEPARTMENT OF TRANSPORTATION
SOIL BORINGS 3
FAI-80 OVER WEST FRONTAGE ROAD
FAI-80 SECTION 99-1 (K,BY & AC-B)
WILL COUNTY
FAI-80 STA. 1931+99.35
STRUCTURE NO. 099-0042, 099-0043, 099-0308
SCALE: NONE DRAWN BY BWS
DATE: OCTOBER 2004 CHECKED BY GDW