

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

FORM NO. 1-11 (REV. 1-75) INDEX Sh. 1 of 6 Sh.

BRIDGE FOUNDATION BORING LOG  
PROJECT: RF-50 ( ) BRIDGE: F.A. 17 OVER I.O.G. BR Date: 5/21/75  
ROUTE: F.A. 17 Bored By: KIRBY  
SEC: 19 VBR STA: 30 + 63.74 Checked By: T.G.B.  
COUNTY: COLES

Boring No.	Station	Offset	Elevation	N	Q <sub>u</sub> (t/sf)	Surface Water El. at Completion	Groundwater El. at Completion	DRY	Elevation	N	Q <sub>u</sub> (t/sf)	w (%)
1	30 + 99	19.3' E	712.1	0								
			708.6	13					25	10	2.5	13
				10	2.6				13	8	2.3	12
				11	1.8		681.6		20	11	2.3	13
				10	1.4				10	12	1.9	12
				11	2.9				25	11	1.9	14
				10	2.3				15	13	1.9	13
				12	1.6				40	9	1.2	13
				12	2.1				20	11	1.3	14

N-Standard Penetration Test - Blows per foot to drive 2" O.D. Split Spoon Sampler 12" with 140# hammer falling 30".  
Q<sub>u</sub>-Unconfined Compressive Strength - 1/sf  
w-Water Content - percentage of oven dry weight - %  
Type failure: B-Bulge Failure, S-Shear Failure, E-Estimated Value, P-Penetrometer

FORM NO. 1-11 (REV. 1-75) INDEX Sh. 2 of 6 Sh.

BRIDGE FOUNDATION BORING LOG  
PROJECT: RF-50 ( ) BRIDGE: F.A. 17 OVER I.O.G. BR Date: 5/21/75  
ROUTE: F.A. 17 Bored By: KIRBY  
SEC: 19 VBR STA: 30 + 63.74 Checked By: T.G.B.  
COUNTY: COLES

Boring No.	Station	Offset	Elevation	N	Q <sub>u</sub> (t/sf)	Surface Water El. at Completion	Groundwater El. at Completion	DRY	Elevation	N	Q <sub>u</sub> (t/sf)	w (%)
2	30 + 96.5	67.7' W	711.9	0								
			708.3	8					25	9	1.3	14
				8	2.1				13	13	1.6	15
				13	1.6				30	11	2.3	13
				12	1.9				10	12	1.9	12
				11	1.9				33	11	1.9	14
				13	1.9				15	13	1.9	13
				9	1.2				40	9	1.2	13
				11	1.3				20	11	1.3	14

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FORM NO. 1-11 (REV. 1-75) INDEX Sh. 3 of 6 Sh.

BRIDGE FOUNDATION BORING LOG  
PROJECT: RF-50 ( ) BRIDGE: F.A. 17 OVER I.O.G. BR Date: 5/21/75  
ROUTE: F.A. 17 Bored By: KIRBY  
SEC: 19 VBR STA: 30 + 63.74 Checked By: T.G.B.  
COUNTY: COLES

Boring No.	Station	Offset	Elevation	N	Q <sub>u</sub> (t/sf)	Surface Water El. at Completion	Groundwater El. at Completion	DRY	Elevation	N	Q <sub>u</sub> (t/sf)	w (%)
3	31 + 15	65.2' W	711.7	0								
			708.7	15					25	13	1.8	13
				9	1.3				15	11	1.6	13
				11	1.6				30	11	1.6	13
				15	2.9				10	15	2.9	12
				17					25	17		
				9	1.6				15	9	1.6	14
				13	2.7				20	13	2.7	12

N-Standard Penetration Test - Blows per foot to drive 2" O.D. Split Spoon Sampler 12" with 140# hammer falling 30".  
Q<sub>u</sub>-Unconfined Compressive Strength - 1/sf  
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Type failure: B-Bulge Failure, S-Shear Failure, E-Estimated Value, P-Penetrometer

FORM NO. 1-11 (REV. 1-75) INDEX Sh. 4 of 6 Sh.

BRIDGE FOUNDATION BORING LOG  
PROJECT: RF-50 ( ) BRIDGE: F.A. 17 OVER I.O.G. BR Date: 5/21/75  
ROUTE: F.A. 17 Bored By: KIRBY  
SEC: 19 VBR STA: 30 + 63.75 Checked By: T.G.B.  
COUNTY: COLES

Boring No.	Station	Offset	Elevation	N	Q <sub>u</sub> (t/sf)	Surface Water El. at Completion	Groundwater El. at Completion	DRY	Elevation	N	Q <sub>u</sub> (t/sf)	w (%)
4	31 + 25	51.7' W	712.6	0								
			709.1	15					25	12	1.5	16
				13	3.3				10	13	3.3	12
				10	2.2				30	10	2.2	12
				11	2.1				10	11	2.1	12
				11	2.2				25	11	2.2	13
				10	2.1				20	10	2.1	13

N-Standard Penetration Test - Blows per foot to drive 2" O.D. Split Spoon Sampler 12" with 140# hammer falling 30".  
Q<sub>u</sub>-Unconfined Compressive Strength - 1/sf  
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FORM NO. 1-11 (REV. 1-75) INDEX Sh. 5 of 6 Sh.

BRIDGE FOUNDATION BORING LOG  
PROJECT: RF-50 ( ) BRIDGE: F.A. 17 OVER I.O.G. BR Date: 5/28/75  
ROUTE: F.A. 17 Bored By: KIRBY  
SEC: 19 VBR STA: 30 + 63.75 Checked By: T.G.B.  
COUNTY: COLES

Boring No.	Station	Offset	Elevation	N	Q <sub>u</sub> (t/sf)	Surface Water El. at Completion	Groundwater El. at Completion	DRY	Elevation	N	Q <sub>u</sub> (t/sf)	w (%)
5	30 + 50	61.5' W	711.4	0								
			707.4	8					25	13	1.9	13
				8	1.4				13	8	1.4	13
				23					20	23		
				11	2.9				10	11	2.9	13
				27					25	27		
				13	2.3				40	13	2.3	14
				9	1.4				20	9	1.4	13

N-Standard Penetration Test - Blows per foot to drive 2" O.D. Split Spoon Sampler 12" with 140# hammer falling 30".  
Q<sub>u</sub>-Unconfined Compressive Strength - 1/sf  
w-Water Content - percentage of oven dry weight - %  
Type failure: B-Bulge Failure, S-Shear Failure, E-Estimated Value, P-Penetrometer

FORM NO. 1-11 (REV. 1-75) INDEX Sh. 6 of 6 Sh.

BRIDGE FOUNDATION BORING LOG  
PROJECT: RF-50 ( ) BRIDGE: F.A. 17 OVER I.O.G. BR Date: 5/28/75  
ROUTE: F.A. 17 Bored By: KIRBY  
SEC: 19 VBR STA: 30 + 63.75 Checked By: T.G.B.  
COUNTY: COLES

Boring No.	Station	Offset	Elevation	N	Q <sub>u</sub> (t/sf)	Surface Water El. at Completion	Groundwater El. at Completion	DRY	Elevation	N	Q <sub>u</sub> (t/sf)	w (%)
6	30 + 09	55.2' W	711.9	0								
			709.4	17					25	22	2.9	11
				16					5	16		
				8	1.3				30	8	1.3	14
				8	1.3				10	8	1.3	13
				12	1.9				25	12	1.9	13
				9	1.9				15	9	1.9	14
				19	5.9				20	19	5.9	11

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Q<sub>u</sub>-Unconfined Compressive Strength - 1/sf  
w-Water Content - percentage of oven dry weight - %  
Type failure: B-Bulge Failure, S-Shear Failure, E-Estimated Value, P-Penetrometer

**ESCA**  
CONSULTANTS, INC.  
DESIGNED BY: MTD 03/09  
DRAWN BY: RJT 03/09  
CHECKED BY: MTD 03/09  
APPROVED BY: RDP 08/09

SOIL BORINGS  
STRUCTURE NO. 015-0064

SHEET NO. 33 35 SHEETS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	325	(19VBR)BR	COLES	92	57
CONTRACT NO. 74149			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		