ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. RTE. 774	107BY-1	EFFINGHAM	273	226
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 26

26 SHEETS

CONTRACT NO. 94827

Boring #1 (1971)

Boring No. 1 N. ABUT.
Station 1017+70
Offset 7' RT. ℄

Surface Water El. —
Groundwater El. at Completion 517.5
After 24 Hours 528.7

Elevation		N	Qu t/s.f.	w (%)
Ground Surface 539.0				
EXISTING PAVEMENT, SUB-BASE AND STIFF DARK BROWN CLAY SUBGRADE				
536.0				
STIFF, DAMP, MOTTLED BROWN & GREY, CLAY TILL WITH TRACES OF SAND LENSES AND FRAGMENTS OF WEATHERED SANDSTONE	-5	15	1.3 S	13
	-15	15	1.1 S	14
531.0				
MIXTURE OF VERY MOIST VERY FINE SAND AND FRAGMENTS OF WEATHERED SANDSTONE		18		16
529.0	-10			
MEDIUM, VERY DAMP, BROWN-GREY, CLAY LOAM TO CLAY (ORGANIC) WITH THIN LENSES OF SAND AND TRACES OF WEATHERED SANDSTONE		9	0.8 S	16
		11	0.9 S	20
523.0	-15			
STIFF, MOIST, GREY, LOAM TO SANDY LOAM WITH LENSES OF GREY SAND		12	1.2 S	18
521.0				
MEDIUM, VERY DAMP, GREY SILTY CLAY LOAM TO CLAY LOAM		6	0.6 BaS	28
	-20			
518.5				
SOFT, VERY DAMP, GREY, CLAY LOAM WITH 2"± THICK LENSES OF WET SAND & VERY THIN LENSES OF SILTY LOAM		5	0.5 E	26
	-25			

Elevation		N	Qu t/s.f.	w (%)
WATER ENCOUNTERED AT ELEVATION 516.5	516.0			
LOOSE, DAMP, GREY, LOAM TO SANDY LOAM WITH THIN LENSES OF SAND AND CLAY LOAM TO CLAY	514.0	5		28
LOOSE, WET, BROWN-GREY, SAND WITH GRAVEL PARTICLES	-25	6		19
	509.0	8		19
	-30			
VERY STIFF, VERY MOIST, GREY WEATHERED SHALE WITH VERY THIN LENSES OF SANDSTONE	507.0	*	2.45	13
VERY DENSE, DRY, GREY, SHALE WITH THIN LENSES OF HARD SANDSTONE		**		10
	-35			
	502.5	***		6
EXTENT OF EXPLORATION				
	-40			
	-45			

* 2½" PENETRATION FOR 100 BLOWS

** 1" PENETRATION FOR 100 BLOWS

***2" PENETRATION FOR 100 BLOWS

Boring #2 (1971)

Boring No. 2 PIER 2
Station 1019 + 28
Offset 6' RT. ℄

Surface Water El. 522+
Groundwater El. at Completion —
After — Hours —

Elevation		N	Qu t/s.f.	w (%)
Ground Surface 520.30				
SOFT, WET, BROWN, LOAM TO CLAY LOAM WITH THIN LENSES OF WET SAND		3	0.5 S	37
		2	0.3 S	26
	-5			
514.8				
VERY LOOSE, WATER BEARING, BROWN - ORANGE, FINE SAND		3		24
512.3				
VERY LOOSE, WET, BROWN-GREY, SANDY LOAM		2		22
	-10			
509.8				
VERY DENSE, HOIST, LIGHT GREY SANDSTONE	508.8	*		16
VERY DENSE, DRY, GREY, SHALE WITH THIN LENSES OF HARD SANDSTONE		**		9
	-15			
	503.6	***		11
EXTENT OF EXPLORATION				
	-20			

* 1½" PENETRATION FOR 100 BLOWS
**2½" PENETRATION FOR 100 BLOWS
***3" PENETRATION FOR 100 BLOWS

Boring #3 (1971)

Boring No. 3 PIER 1
Station 1018+41
Offset 6' LT. ℄

Surface Water El. 522+
Groundwater El. at Completion —
After — Hours —

Elevation		N	Qu t/s.f.	w (%)
Ground Surface 521.80				
SOFT TO VERY SOFT, WET, BROWN MOTTLED GREY, CLAY		2	0.3 B	35
		2	0.25 E	35
	-5			
515.8				
SOFT, WET, CLAY LOAM TO CLAY WITH THIN LENSES OF SAND 514.8		3	0.3 B	28
VERY LOOSE, WATER BEARING, BROWN-GREY, SAND		4		22
	-10			
510.3		76		11
VERY DENSE, DRY, GREY, SHALE WITH THIN LENSES OF HARD SANDSTONE		*		
		**		8
	-15			
502.8		*		8
EXTENT OF EXPLORATION				
	-20			

* 1" PENETRATION FOR 100 BLOWS
**2½" PENETRATION FOR 100 BLOWS

Boring #4 (1971)

Boring No. 4 S. ABUT.
Station 1019+89
Offset 6' LT. ℄

Surface Water El. 525.0
Groundwater El. at Completion —
After — Hours —

Elevation		N	Qu t/s.f.	w (%)
Ground Surface 525.00				
MEDIUM, VERY DAMP, BROWN MARBLED GREY, SILTY CLAY TO CLAY WITH THIN LENSES OF SAND		8	1.0 S	26
522.0				
MEDIUM, VERY DAMP, CLAY LOAM TO SANDY CLAY LOAM WITH LENSES OF SAND & PIECES OF WEATHERED SANDSTONE 520.0	-5	6	0.6 E	21
SOFT, VERY DAMP, GREY, CLAY LOAM TO CLAY WITH NUMEROUS PIECES OF WEATHERED SANDSTONE		3	0.25 E	17
517.0				
LOOSE, VERY DAMP, GREY, SLIGHTLY ORGANIC, SAND WITH LENSES OF CLAY	515.5	12		17
VERY DENSE, HOIST, LIGHT GREY, WEATHERED SANDSTONE	-10	*		14
*4" PENETRATION FOR 100 BLOWS				
513.0				
VERY DENSE, MOIST, GREY, SHALE WITH THIN LENSES OF HARD SANDSTONE		160		8
**5" PENETRATION FOR 100 BLOWS	-15			
508.5		**		10
EXTENT OF EXPLORATION				
	-20			

N—Standard Penetration Test—Blows per foot to drive 2" O.D. Split Spoon Sampler 12" with 140# 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

SHEET TITLE: BORING LOGS

PROJECT: IL RTE. 32/33 OVER LITTLE WABASH RIVER OVERFLOW
F.A.P. RTE. 774 SECTION 107BY-1
EFFINGHAM COUNTY
STATION 1018+86.92
STRUCTURE NO. 025-0077

PROJECT NO. 02017
SCALE
DATE
DRAWN BY CFC
CHECKED BY KPS/CME/MCB
DRAWING NO. 26 OF 26 SHTS

COOMBE-BLOXDORF P.C.
Engineers / Land Surveyors
Springfield, Illinois
Design Firm License No. 184-002703