ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. RTE. 774	107BY-1	EFFINGHAM	344	292
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 518.7

Elevation	N	Qu t/s.f.	w (%)
Ground Surface 539.0			
EXISTING PAVEMENT, SUB-BASE AND STIFF DAMP, BROWN CLAY SUBGRADE			
536.0			
STIFF, DAMP, MOTTLED BROWN & GREY, CLAY TILL WITH TRACES OF SAND LENSES AND FRAGMENTS OF WEATHERED SANDSTONE	15	1.3 S	13
	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
-15			
523.0			
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	0.8 B&S	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

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	5		28
514.0 -25			
LOOSE, WET, BROWN-GREY, SAND WITH GRAVEL PARTICLES	6		19
	8		19
509.0 -30			
VERY STIFF, VERY MOIST, GREY WEATHERED SHALE WITH VERY THIN LENSES OF SANDSTONE	*	2.45	13
507.0			
VERY DENSE, DRY, GREY, SHALE WITH THIN LENSES OF HARD SANDSTONE	**		10
-35			
502.5	***		8
EXTENT OF EXPLORATION			

* 2½" PENETRATION FOR 100 BLOWS

** 1" PENETRATION FOR 100 BLOWS

***2" PENETRATION FOR 100 BLOWS

-40

-45

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	27
	1	0.5 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, MOIST, LIGHT GREY, SANDSTONE	*		16
VERY DENSE, DRY, GREY, SHALE WITH THIN LENSES OF HARD SANDSTONE	**		9
-15			
503.8	***		11
EXTENT OF EXPLORATION			

* 1¾" PENETRATION FOR 100 BLOWS

**2½" PENETRATION FOR 100 BLOWS

***3" PENETRATION FOR 100 BLOWS

-20

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 E	28
VERY LOOSE, WATER BEARING, BROWN-GREY, SAND	4		22
-10 510.3			
VERY DENSE, DRY, GREY, SHALE WITH THIN LENSES OF HARD SANDSTONE	76		11
	*		
	**		8
-15			
502.8	*		8
EXTENT OF EXPLORATION			

* 1" PENETRATION FOR 100 BLOWS

**2½" PENETRATION FOR 100 BLOWS

-20

Boring #4 (1971)

Boring No. 4 S. ABUT.
Station 1014+59
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	6	0.6 E	22
-5			
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, MOIST, 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