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

Description	Elevation	N	Qu t/s.f.	Type	W (%)
Ground Surface	539.00				
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	-5	15	1.3 S		13
		15	1.1 S		14
	531.0				
MIXTURE OF VERY MOIST VERY FINE SAND AND FRAGMENTS OF WEATHERED SANDSTONE	-10	18			16
	529.0				
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
	-15	11	0.9 S		20
	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		8	0.6 B&S		28
	-20				
	518.5				
SOFT, VERY DAMP, GREY, CLAY LOAM WITH 2"+ SHALE LENSES OF WET SAND & VERY THIN LENSES OF SILTY LOAM		5	0.5 E		26
	-25				

Description	Elevation	N	Qu t/s.f.	Type	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				
LOOSE, WET, BROWN-GREY, SAND WITH GRAVEL PARTICLES		6			19
		6			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 + 38
Offset 6' RT. ℄

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

Description	Elevation	N	Qu t/s.f.	Type	W (%)
Ground Surface	520.30				
SOFT, WET, BROWN, LOAM TO CLAY LOAM WITH THIN LENSES OF WET SAND		3	0.5 S		27
		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, MOIST, LIGHT GREY, SANDSTONE	508.8	*			15
VERY DENSE, DRY, GREY, SHALE WITH THIN LENSES OF HARD SANDSTONE		**			9
	-15				
	503.5	***			11
	-20				

EXTENT OF EXPLORATION

* 1¾" PENETRATION FOR 100 BLOWS

**2½" PENETRATION FOR 100 BLOWS

***3" PENETRATION FOR 100 BLOWS

Boring #3 (1971)

Boring No. 3 PIER 1
Station 2013+41
Offset 6' RT. ℄

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

Description	Elevation	N	Qu t/s.f.	Type	W (%)
Ground Surface	521.80				
SOFT TO VERY SOFT, WET, BROWN MOTTLED GREY, CLAY		2	0.5 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	7A			11
VERY DENSE, DRY, GREY, SHALE WITH THIN LENSES OF HARD SANDSTONE		*			
	-15				
		**			8
	502.8	*			8
	-20				

* 1" PENETRATION FOR 100 BLOWS

**2½" PENETRATION FOR 100 BLOWS

EXTENT OF EXPLORATION

Boring #4 (1971)

Boring No. 4 S. ABUT.
Station 1019+99
Offset 6' RT. ℄

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

Description	Elevation	N	Qu t/s.f.	Type	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	-5	8	0.6 E		21
	520.0				
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	515.3	12			17
VERY DENSE, MOIST, LIGHT GREY, WEATHERED SANDSTONE	-10				
*4" PENETRATION FOR 100 BLOWS	*				14
	512.0				
VERY DENSE, MOIST, GREY, SHALE WITH THIN LENSES OF HARD SANDSTONE		160			8
**5" PENETRATION FOR 100 BLOWS	-15				
	508.5	**			10
	-20				

EXTENT OF EXPLORATION

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