

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S.B.I. F.A. 5	19B-2-D	STEPHENSON	57	36
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 20
23 SHEETS

B - 1

B - 1



SOIL BORING LOG

Page 1 of 2

ROUTE FA 5 (US 20 BR) DESCRIPTION P-92-046-99 US 20 over Yellow Creek LOGGED BY Montgomery
SECTION 19 BR-2 LOCATION Silver Creek Twp. SE, SEC. 4, TWP. 26N, RNG. 8E
COUNTY Stephenson DRILLING METHOD Hollow Stem Auger HAMMER TYPE Mobile Safe-T-Driver

STRUCT. NO.	Station	BORING NO.	Station	Offset	Ground Surface Elev.	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.:	First Encounter	Upon Completion	After	Hrs.	D	B	U	M	H	S	Qu	T	(ft)	(/ft)	(tsf)	(%)
	56 + 25	B-1	54 + 90	23.00ft RT	99.3	87.5		79.3	79.3															
4 1/2" Asphalt, 10" Concrete																								
CA06 Gravel																								
Sand & Gravel																								
	96.80																							
VERY DENSE brown SAND & GRAVEL																								
	95.30																							
DENSE Same as above																								
	92.80																							
VERY DENSE Same as above hard drilling																								
	90.30																							
VERY DENSE tan LIMESTONE Fill																								
	87.80																							
DENSE Same as above, contains SAND & GRAVEL																								
	84.80																							
MEDIUM gray SANDY LOAM (sand/gravel/clay fill) (very plastic)																								
	82.80																							
MEDIUM Same as above (very plastic)																								
	80.30																							

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T208)
BBS, from 137 (Rev. 8-99)



SOIL BORING LOG

Page 2 of 2

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	56 + 25	B-1	54 + 90	23.00ft RT	99.3	87.5		79.3	79.3															
Wash																								
STIFF Same as above (too plastic to rimac)																								
	67.80																							
MEDIUM Same as above																								
	55.30																							
STIFF Same as above																								
	52.30																							
DENSE grey SAND																								
	50.30																							
Wash																								
VERY DENSE Same as above																								
	47.80																							
Wash																								
VERY DENSE Same as above																								
	45.30																							
WASH																								
DENSE, Same as above, dirty																								
	42.80																							
VERY DENSE, Same as above, very fine & clean																								
	40.30																							

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T208)
BBS, from 137 (Rev. 8-99)

Notes: For location of borings, see General Plan & Elevation sheet No. 1.
Offsets are given from \odot F.A. Route 301 U.S. 20.

LEGEND

- 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 dry weight - %.

- Type Failure
- B Bulge Failure
 - S Shear Failure
 - E Estimated Value
 - P Penetrometer

SOIL BORING
U.S. 20 B.R. OVER YELLOW CREEK
F.A. RT. 5 SEC. 19B-2-D
STEPHENSON COUNTY
STATION 56+25.00
STRUCTURE NUMBER 089-0008



DESIGNED	L.C.M.
CHECKED	S.D.K.
DRAWN	T.L.M.
CHECKED	S.D.K.

EXAMINED	20
PASSED	ENGINEER OF BRIDGE DESIGN
	ENGINEER OF BRIDGES AND STRUCTURES