						PAGE 1		or		_
Geo Services Inc.	S	OI	L E	OF	RING LOG	DATE DR				
Geotechnical, Environmental & Civil Engineering 805 Amherst Court, Suite 204						LOGGED BY	2/1/	/201:	2	
Geo Services, Inc. Geotechnical, Environmental & Givil Engineering 805 Ambertal Court, Soute 204 Naperville, Milling's 60555 (630) 3551-2838						GSI JOB No				
ROUTE _FAP 353 (US 30) DE	SCBIB	TION	110 1	2011	a 30 @ F.I&F/CN Railroad IDO					
·							-91-0	J 4 0-	12	
SECTION 11-Y-A LC										
COUNTY Cook DF	RILLING	MET	HOD .	Holl	ow Stem Auger/Rotary HAMME	R TYPE <u>Die</u>	drich	Auto	matic	C
STRUCT. NO	D	В	u	м	Surface Water Elev. <u>n/a</u>			в	U	١,
Station	E	L	CS	P	Stream Bed Elev. n/a		E	L	Ċ	9
BORING NO. BS-09 Station 282+50	T H	W	Qu	S	Groundwater Elevation: First Encounter <u>623.5</u>		Ī	W	Qu	:
Offset 44.5' Left	"	3	Qu	1	Upon Completion $\frac{628.8}{n/a}$	$\overline{\nabla}$	^	٥	Qu	l
Ground Surface Elev629.5	(ft)	(/6")	(tsf)	(%)	After Hrs	$\overline{}$	(ft)	(/6")	(tsf)	(
TOPSOIL-black	_				SILTY LOAM-loose (A-4)	609.	0			Γ
628	.5	AS 2	-	32 97			-	٦		l
SILTY CLAY-brown & gray-	_	3		31				2		t
stiff (A-6)		3	1.9B	27			\Box	3	NP	1
626	.5	ł					-			l
	_	3						۱ ا		l
SANDY CLAY LOAM-brown & gray-		3			SILT-gray-very loose to loos	se (A-4)	\Box	2		Γ
loose (A-2/A-6)	5	3	NP	18	,,,		-25	2	NP	ľ
√ 623.	- 5	ł					_			l
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	_	4	NP	21			_ +	4	NP	ŀ
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	-10	5	NP	10				2	NP	l۶
	10	1	NP	19			\Box	2	NP	2
SILTY LOAM-brown & gray-loose (A-4)		5	NP	19			\exists	2	NP	2
SILTY LOAM-brown & gray-loose (A-4)		5	NP	19		597		2	NP	2
SILTY LOAM-brown & gray-loose (A-4		5	NP NP	19		597.		2	NP	2
SILTY LOAM-brown & gray-loose (A-4		2 2				597.	5	2	NP	2
SILTY LOAM-brown & gray-loose (A-4		2 2				597.	5	2	NP	2
SILTY LOAM-brown & gray-loose (A-4		2 2				597.	5	4 4	NP	2
SILTY LOAM-brown & gray-loose (A-4		2 2 4				597.		4	NP NP	
SILTY LOAM-brown & gray-loose (A-4		2 2 4	NP	24	SAND & GRAVEL—grav—	597.		4 4		
SILTY LOAM-brown & gray-loose (A-4		2 2 4	NP	24	SAND & GRAVEL-gray- loose to medium dense (A-			4 4		
SILTY LOAM-brown & gray-loose (A-4		2 2 4 2 3 4 2 3	NP NP	24				4 4		
SILTY LOAM-brown & gray-loose (A-4		2 2 4 2 3 4	NP	24				4 4		
SILTY LOAM-brown & gray-loose (A-4		2 2 4 2 3 4 2 3	NP NP	24				4 4		
SILTY LOAM-brown & gray-loose (A-4		2 2 4 2 3 4 2 3	NP NP	24				4 4		2

SOIL BORING LOG Geo Services, Inc. Geotechnologic Servergrafical Bull 2029 memoring Newsork allows 15050 memoring and properties. James 15050 memoring 15, page 201, page 21, page 21										
LOGGED BY 2/1/2012 SI LOGG					·-	2	of _	3		
CSI Del No. Del Del Del	Geo Services, Inc.	SOIL BORING LOG				DATE <u>DR</u>				
CSJ .098 No09174	805 Amherat Court, Suite 204 Nagerville, Illinois 60565				LOGGE	BY _2	/1/20	12		
SCRION 11-Y-A	(630) 355+2838				GSI JO	B No	09174			
COUNTY Cook ORILLING METHOD Hollow Stem Auger/Ratery HAMMER TYPE Disdrich Automatic Automatic Automatic STRUCT. NO. —— Station —— Station —— Station Automatic Station —— Station Automatic	ROUTE FAP 353 (US 30)	DESCRIPTION	ON US I	Route	30 @ EJ&E/CN Railroad, IDOT Job !	No. D-91	-046	-12		
STRUCT. NO. —— Station _—	SECTION 11-Y-A	LOCATION	SEC 20	8c :	29, T 35 N, R 15 E, 3rd PM					
STRUCT. NO. —— Station _—	COUNTY Cook	DRILLING M	METHOD	Holl	ow Stem Auger/Rotary HAMMER TYPE	Diedric	h Aut	omati	c	
Station ——										
Solution 282±250		I E I				— I E	L	U		
The Unconfined Compressive Strench (US) Foliure Mode is indicated by Service (A-3) The Unconfined Compressive Strench (US) Foliure Mode is indicated by Service (A-3) The Unconfined Compressive Strench (US) Foliure Mode is indicated by Service (A-3) The Unconfined Compressive Strench (US) Foliure Mode is indicated by Service (A-3) The Unconfined Compressive Strench (US) Foliure Mode is indicated by Service (A-3) The Unconfined Compressive Strench (US) Foliure Mode is indicated by Service (A-3) The Unconfined Compressive Strench (US) Foliure Mode is indicated by Service (A-3) The Unconfined Compressive Strench (US) Foliure Mode is indicated by Service (A-3) The Unconfined Compressive Strench (US) Foliure Mode is indicated by Service (A-3) The Unconfined Compressive Strench (US) Foliure Mode is indicated by Service (A-3) The Unconfined Compressive Strench (US) Foliure Mode is indicated by Service (A-3) The Unconfined Compressive Strench (US) Foliure Mode is indicated by Service (A-3) The Unconfined Compressive Strench (US) Foliure Mode is indicated by Service (A-3) The Unconfined Compressive Strench (US) Foliure Mode is indicated by Service (A-3) The Unconfined Compressive Strench (US) Foliure Mode is indicated by Service (A-3) The Unconfined Compressive Strench (US) Foliure Mode is indicated by Service (A-3) The Unconfined Compressive Strench (US) Foliure Mode is indicated by Service (A-3) The Unconfined Compressive Strench (US) Foliure Mode is indicated by Service (A-3) The Unconfined Compressive Strench (US) Foliure Mode is indicated by Service (A-3) The Unconfined Compressive Strench (US) Foliure Mode is indicated by Service (A-3) The Unconfined Compressive Strench (US) Foliure Mode is indicated by Service (A-3) The Unconfined Compressive Strench (US) Folium (A-1) The Unconfined Compressive Strench (US)		P	0 5			l P	0	s		
Ground Surface Elev. 629.5 (ft) //e" (tsf) (%) After Hrs. (tsf) (%) (%) (sf) (sf) (%) (sf) (sf) (sf) (sf) (sf) (sf) (sf) (sf						■ H		Qu	Ť	
SAND & GRAVEL—gray—		(ft) (/	'6") (tsf)	(%)			(/6"	(tsf)	(%)	
SAND-gray-medium dense to dense (A-1) SAND-gray-medium dense to dense (A-3) SAND-gray-stiff (A-6) SAND-gray-stiff (A-6) SAND-gray-stiff (A-6) SAND-gray-stiff (A-6) SAND-gray-stiff (A-6) SAND-gray-very stiff (A-6) SAND-gray-ver				H			+		H	
SAND-gray- medium dense to dense (A-3) SAND-gray- stiff (A-6) SAND-gray-dense (A-3)		コ		l		_	_		l	
SAND-gray- medium dense to dense (A-3) SAND-gray- stiff (A-6) 9 -70 12 13 19 557.5 CLAY LOAM-gray-very stiff (A-6) -75 22 -75 25 28 10 -75 25 28 10 -75 25 28 10 -75 25 28 10 -75 25 28 10 -75 25 28 10 -75 25 28 10 -75 25 28 10 -75 25 28 10 -75 25 28 10 -75 25 28 10 -75 25 28 10 -75 25 28 10 -75 25 28 10 -75 25 28 10 -75 25 28 10 -75 25 28 10 -75 25 28 10 -75 25 28 10 -75 25 28 10 -75 25 28 10 -75 25 28 10 -75 25 28 10 -75 25 28 10 -75 25 28 10 -75 25 25 26 -75 27 28 28 28 28 28 28 28 28 28		.,, _ +	+-	⊢		-	+	├	⊢	
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SAND-gray- medium dense to dense (A-3)			~	П	medium dense to dense (A-3)	_		1	Т	
SAND-gray- medium dense to dense (A-3)		-45	9 NP	24			55 13	NP	23	
SAND-gray- medium dense to dense (A-3)		_		l			+		l	
SAND-gray- medium dense to dense (A-3)		\neg		Ш		_	1_		┖	
medium dense to dense (A-3)		-		l		562.5	-		l	
B				Н					✝	
CLAY-gray-stiff (A-6)	medium dense to dense (A=3)	\neg		l		_	4			
				\vdash	CLAY-gray-stiff (A-6)	_		 	107	
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The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) ST-Shelby Tube Sample VS=Vane Shear Test								l		
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Geo Services, Inc. chnicol, Environmental & Givil Engineering 805 Artherst Court, Sulte 204 Naperville, Ullingla 60565 (630) 355-2858 SOIL BORING LOG DATE DR LOGGED BY 2/1/2012 GSI JOB No. <u>09174</u> DESCRIPTION US Route 30 © EJ&E/CN Railroad, IDOT Job No. D-91-046-12 LOCATION SEC 20 & 29. T 35 N. R 15 E. DRILLING METHOD Hollow Stem Auger/Rotary HAMMER TYPE Diedrich Automa STRUCT. NO. ___ Surface Water Elev. n/aStream Bed Elev. n/aStation ___ F L C O O S I T W S Qu T V (ft) (/6") (tsf) (%) BORING NO. BS-09
Station 282+50 Groundwater Elevation:
First Encounter 623.5Upon Completion n/aOffset 44.5' Left (ft) (/6") (tsf) (%) After _____ Hrs. 629.5 Ground Surface Elev. SAND-gray-dense (A-3) SANDY CLAY LOAM—gray— very dense (A—2) SILTY CLAY LOAM-gray-very dense (A-4) ____ 38 _-105 55 2.4S 14 CLAY LOAM-gray-very dense (A-4/A-6) *520.0* 50/2 -110 Drillers Observation: Possible Bedrock. End Of Boring © -111.5' Hollow Stern Augers To -10.0' Rotary Drilling To Completion Diedrich Automatic Hammer _115 SILTY CLAY LOAM-gray-very dense (A-4)

PAGE <u>3</u> of <u>3</u>

COUNTY TOTAL SHEETS NO. COOK 354 272

CONTRACT NO. 60R19

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) ST-Shelby Tube Sample VS-Vane Shear The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO 1206) The Unit Dry Weight (pcf) is noted in italics above moist

NR-No Recovery		, (me and any magne (pay is in	

USER NAME =	DESIGNED - EVS	REVISED	
	CHECKED - WJV	REVISED	
PLOT SCALE =	DRAWN - EVS	REVISED	
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SOIL BORING LOGS Structure No. 016–1280		SECTIO	ON	COUNTY	
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SHEET NO. 17 OF 25 SHEETS		IL	LINOIS FED. A	ID PROJECT	